HEINRICH KIPP WERK



OPERATING PARTS | STANDARD ELEMENTS

Clamping Technology | Standard Elements | Operating Parts

Contents

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TECHNICAL APPENDIX 1378

Reg. No. 002081 QM

BUSINESS HOURS

MONDAY-THURSDAY	7.00 am - 5.30 pm
FRIDAY	7.00 am - 3.30 pm

Product groups

Clamping levers, tension levers, cam levers



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Grips, knobs



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Tube connectors, profile connectors



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Pull handles, tubular handles, recessed handles



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Handwheels, crank handles, position indicators



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Quarter-turn locks



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Toggle clamps, power clamps



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Hinges



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Spring plungers, indexing plungers, ball lock pins



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Level indicators, screw plugs



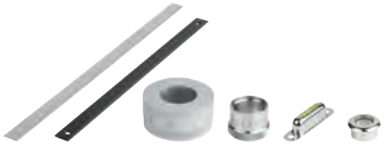
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Machine elements, fixture components



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Material handling



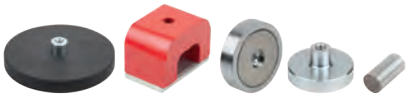
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Joints



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Magnets



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Special solutions



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Buffer elements



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New products



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TRUST IN KIPP
Manufacturing expertise with family tradition











For 100 years HEINRICH KIPP WERK has been a quality partner to industry.
We offer a comprehensive product spectrum with more than 36,000 elements in the core sectors clamping technology, standard elements and operating parts.

We produce in our machine shop located in Germany. This guarantees rapid response times and short routes. Customers appreciate our production resources and extensive developement experience.

Reliability. Longevity. Sustainability.
This is what our owner managed company has stood for from the very beginning.



Nicolas Kipp Heinrich Kipp

Locations

HEINRICH KIPP WERK is located in Germany. This is where the production takes place and the fully automated, high-performance logistics centre is situated.
Internationally, the corporate group is currently represented by seven company branches. International orientation is a corporate goal.

In addition, more than 50 permanent agencies service all major international markets. Some of these have been your local contact partner for decades.
Further information at **www.kipp.com**





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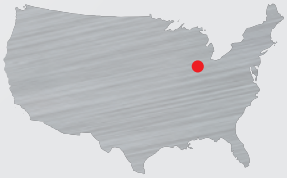
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Professional advice

HEINRICH KIPP WERK has highly trained customer service staff and expert technical advisers with extensive experience. These can be reached during business hours by telephone under +49 7454 793-0 or over the callback service under **www.kipp.com**



Callback service

The customer support team would be happy to contact you by telephone. Please use the form under **www.kipp.com** to organise this as suitably as possible for yourself. Describe your enquiry in short and enter your telephone number and the desired time when we should call you back.



Delivery

The high-performance logistics system guarantees rapid response times and high supply availability. Customers can choose between standard or express delivery. Express deliveries for orders of in stock items received at HEINRICH KIPP WERK before 3.00 pm will arrive within 48 hours. Further information under **www.kipp.com**



Payment

In addition to the classic invoice, HEINRICH KIPP WERK also offers its customers three further payment options in the online shop: Credit card (VISA or MasterCard), PayPal and SOFORT Überweisung. With the expansion of the payment options, online bills can be safely and comfortably settled. This saves precious time and reduces effort.

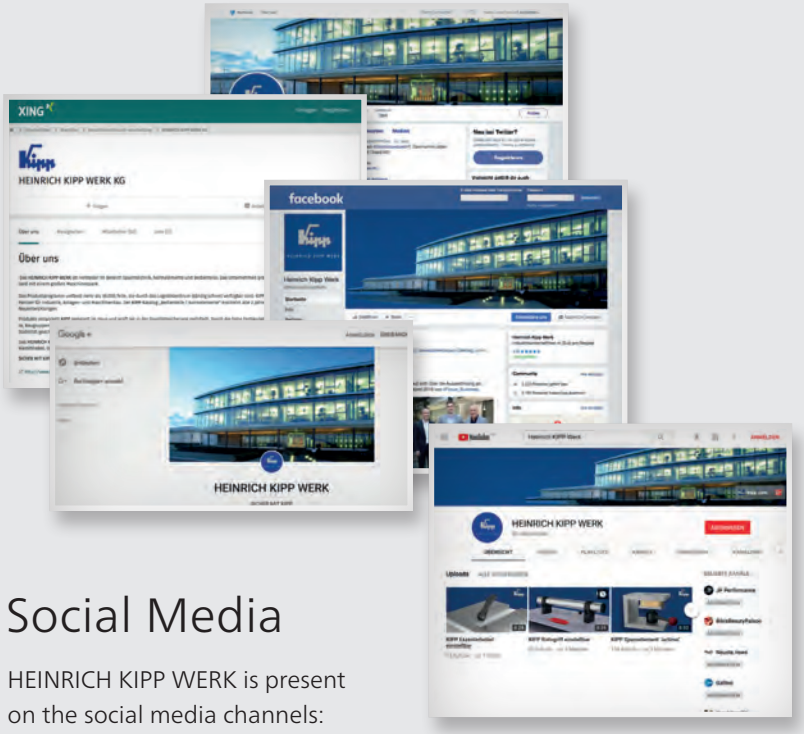
AEO Certification

As an authorised economic operator, HEINRICH KIPP WERK guarantees consistent security in the international supply chain. The essential objective of this is the prevention of access to goods and commodities by unauthorised persons.

These security measures ensure that significantly less controls on goods and documents need to be carried out. It also gives the customer the guarantee that the products can be delivered on time.

TÜV Certification

The TÜV Saarland conducted a neutral customer survey. For the second time KIPP was assessed by its customers with the mark "VERY GOOD" (1.7). This mark applies to both satisfaction with the service performance and with the company as a whole. 99.6% of the customers said that they would order from KIPP again.



Social Media

HEINRICH KIPP WERK is present on the social media channels: Facebook, Xing, Twitter, Google+ and YouTube. Become our friend and part of the community! Subscribe to the newsletter under **www.kipp.com**

Special solutions

HEINRICH KIPP WERK has extensive production resources. This is why we can produce special solution construction groups and single items at any time that exactly suit customer specifications.

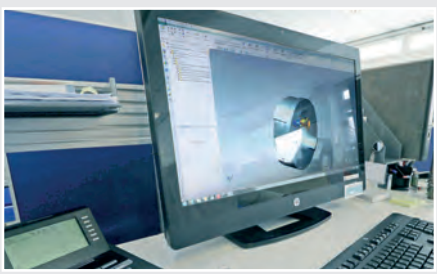
Cam-action indexing plunger:
The engagement element was specially developed for the height adjustment of a tool carrier system. Stainless steel version in A4 quality.

Indexing plunger:
This is a special positioning part for machine construction. The turned parts (sleeve and pin) are made of high-tensile, hardened steel. The aluminium mushroom knob is blue anodised.

Tension lever:
This special coloured version of the grip is used on medical equipment. It is marked with 3D icons to suit the function. Ergonomics and design guarantee an optimal match to the control panel interface.

In our machine shop are metal cutting, injection molding and zinc die-casting machines. Our own R&D department and toolmaking workshop ensure a professional realisation of special projects.

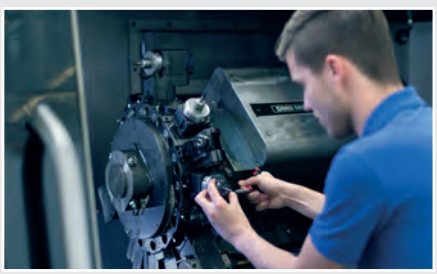
Completely assembled and, if desired with treated surfaces. Technicians accompany every single project - during the offer preparation, feasibility assessment and all the way through to completion.



Development/Design



Toolmaking



Machining





Zinc die-casting



Plastic injection moulding



Surface treatment



Assembly

Product lines

NOVO grip



Our NOVO grip product line is the classic in the plastic sector. Well thought out in every detail. Sophisticated design, easy-grip form and efficient price/performance.

SYMPA touch



It's in the name. SYMPA touch, our product line for maximum ergonomics. The soft, anti-slip material sits perfectly in the hand.

NATURE grip



Our NATURE grip product range is environmentally friendly and produced from biopolymer which is made entirely from renewable raw materials.

MEDI grip



MEDI grip is suitable for areas with high hygienic requirements. These operating parts contain micro-silver, which has an antibacterial effect on the surface.

Material and surfaces

Besides the standard versions, other materials or grades can be supplied on request.

At extra cost, different surface finishes such as matt or high-gloss chromed for steel parts can be provided.

In addition, for plastic coatings or injection-moulded plastic parts, other colour variants can be supplied on request.

RoHS

HEINRICH KIPP WERK only supplies products that conform to the 2011/65/EU directive.

For the purposes of the 1907/2006 (EC) regulations, we are a downstream user. To the best of our knowledge no materials or additives are used in our products that are listed in Amendment XVII or the SVHC list.

19" 19" TECHNOLOGY



Grips, rails and standard elements suitable for 19 inch systems. Compatible for applications in the IT sector, event technology, laboratories or computer centres.

STAINLESS STEEL



Products marked with this symbol are made from stainless steel. The predominant material used here is the austenitic alloy 1.4305.

ESD



These products are made from electrically conductive plastic. They can therefore be used in ESD secure areas where electrostatic sensitive components can often be found.

ACCESSORIES alu profiles



The solution for connecting, clamping and holding aluminium profiles. All components perfectly match conventional profiles with 8 mm or 10 mm slot widths.

Thread versions

The threads are machined to the ISO DIN 13 tolerance class "medium" i.e. H6 for female threads and g6 for male threads. Male threads up to 60 mm long are generally supplied as a full thread. Screws from 70 mm long have 60 mm long threads.

Due to surface finish refinement, threads of aluminium grips may not be true to gauge.
To toughen the material most of these threads are form pressed. The pull out resistance from aluminium with M 5 x 10 is here 2000 N.

New products

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Page 316


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On these two pages you can see a selection of new and expanded products.

New and expanded products are marked with a star in the following product overview.

Stainless steel

KIPP has extensively increased the stainless steel range to include cam levers, star grips, levelling feet, hinges.
In matt-finished or polished.



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New versions

Discover our operating part innovations: clamping lever versions and grips for various applications. High-quality function and design.

New elements

New ball lock pins, indexing plungers and quarter-turn locks ensure secure fastenings in plant and equipment construction.

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K0123

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K0006

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K0789



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thrust washer stainless steel
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Knurled nuts
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K0141



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Knurled knobs biopolymer
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Knurled knobs antistatic
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Knurled knobs
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K1016

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Star grips
with projecting steel bush
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similar to DIN 6336
K0155



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metal parts stainless steel
K0154



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Star grips antistatic
similar to DIN 6336
K0155



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Star grips
similar to DIN 6336,
metal parts stainless steel
K0154



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Star grips
K1090



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Star grips with safety band
similar to DIN 6336
K0155



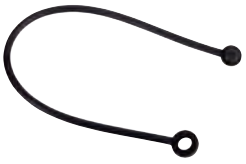
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Star grips with safety band
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K0154



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Mushroom knobs biopolymer
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Mushroom knobs antibacterial
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K0251



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Mushroom knobs antistatic
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K0273



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Wing grips
K0274



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Wing grips antibacterial
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K0274



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Wing grips antistatic
K0274



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Wing grips
tapped through
K0274



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Wing grips
K0783



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Wing grips one-sided
K0608



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Wing grips “Miniwing”
K0274



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Wing grips “Miniwing” antibacterial
metal parts stainless steel
K0274



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Wing grips “Miniwing” antistatic
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K1126



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K0180



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K1203



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K0157

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K0158

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K0253

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K0187



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K1092



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K0190



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K0237



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K0171



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K0210

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K0221

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K0235

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K0236

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angled
K0220

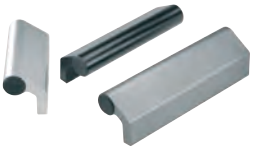
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K0232

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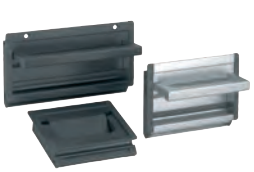
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K0130

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Ledge handles
K0234

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K0238

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K0239

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fold-down
K0240

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Pull handles stainless steel
K0198

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NEW PRODUCTS EXPANDED

Pull handles, tubular handles, recessed handles

Pull handles stainless steel
K0206

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Pull handles stainless steel
K0208

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K0215

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K0218

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K0225

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K0226

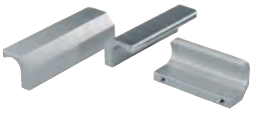
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Tubular handles stainless steel
K0227

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Tubular handles stainless steel
K0652

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K0233

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fold-down stainless steel
K0243

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Pull handles
angled
K0207

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K0214

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K0781

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Tubular handles carbon
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Handwheels, crank handles, position indicators



Handwheels 2-spoke
plastic
K0725



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Handwheels 2-spoke
plastic, with revolving grip
K0725



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Handwheels 2-spoke
plastic, with folding grip
K0725



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Handwheels
DIN 950 grey cast iron
K0671



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K0160



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K0161



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Handwheels disc
aluminium
K0161



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Handwheels 2-spoke
flat rim, aluminium
K0162



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Handwheels 2-spoke
flat rim, aluminium
K0162



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K0163



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with revolving grip
K0164



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without grip
K0165



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K0256



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K0257



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K0259



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K0184

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with grip
K0262

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K0726

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K0684

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K0685

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Crank handles aluminium
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K0998

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Crank handles
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K0266

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Crank handles
with revolving grip
K0659

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Crank handles
with safety grip
K0268

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K0728

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Cylindrical grips revolving
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K0740

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Cylindrical grips revolving
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Handwheels, crank handles, position indicators

Cylindrical grips revolving stainless steel
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K0263

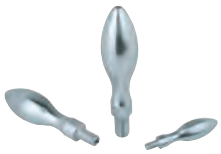
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Cylindrical grips fold-down
K0264

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Cylindrical grips safety automatic return
K0265

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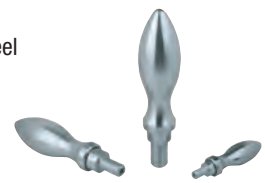
Machine handles fixed steel, DIN 39 Form E
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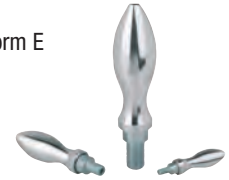
Machine handles fixed DIN 39 Form E, stainless steel
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Machine handles revolving similar to DIN 98 Form E, steel
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Position indicators
freely programmable
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Position indicators
freely programmable
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Reducing bushings
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NEW PRODUCTS EXPANDED

Quarter-turn locks, compression latches



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Quarter-turn locks
with wing grip
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Quarter-turn locks
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Compression latches
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long version
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for latches and locks
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Stop latches
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Quarter-turn clamp locks
grip plastic or stainless steel
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Clamping plates
for quarter-turn clamp locks
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Hinges
plastic, lift-off, left
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Hinges
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Hinges
plastic, with elongated holes
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Hinges
plastic, with detent
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Hinges
plastic, with adjustable friction
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Hinges
aluminium, with adjustable friction
K1195



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Hinges
aluminium, with adjustable friction
K1196



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Hinges
aluminium, with detent
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Hinges
aluminium, with detent
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Hinges plastic
with fastening holes
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Hinges plastic
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Hinges plastic
with fastening screws
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Hinges plastic
with bushes and fastening screws
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Hinges

Hinges
die-cast zinc,
with elongated holes
K0441

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Hinges
die-cast zinc,
with locking lever
K0442

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Hinges
aluminium, lift-off, left
K0579

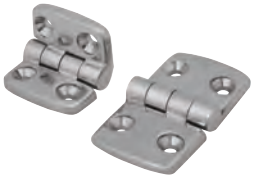
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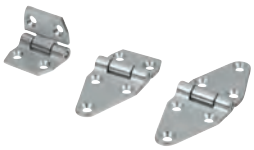
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aluminium
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Hinges
stainless steel
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Hinges
stainless steel
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Hinges steel
maintenance-free
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steel or stainless steel plate
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Hinges
weldable
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Spring hinges
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Spring hinges
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with fastening nuts
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Block hinges
with fastening nuts, long version
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Block hinges
with counterbore, long version
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Hinges weldable
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Levelling feet threaded spindles
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Levelling feet plates
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Levelling feet plates
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Swivel feet, levelling feet

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stainless steel or plastic
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Levelling feet plates
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K0672



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steel or stainless steel
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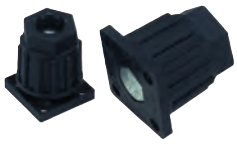


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Tube connectors, profile connectors

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Tube clamps base
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Tube clamps base
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aluminium
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Tube clamps flange
aluminium
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Tube clamps flange
stainless steel
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Tube clamps flange
plastic
K0480

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Tube clamps flange
aluminium
K0480

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Tube clamps straight
plastic
K0481

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Tube clamps straight
plastic
K0483

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Tube clamps swivel half
sunken teeth, plastic
K0484

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Tube clamps swivel half
raised teeth, plastic
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sunken teeth, plastic
K0486

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sunken teeth, plastic
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Tube clamps swivel
plastic
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aluminium
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Tube clamps swivel
plastic
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Tube connectors, profile connectors

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Tube clamps swivel base plastic
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Tube clamps swivel base aluminium
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Linear actuator connector clamps cross
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Linear actuator connector clamps base
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Square tube connectors two-way
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Square tube connectors four-way, flat
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Square tube connectors three-way
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Square tube connectors four-way
K0620

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Tube connectors, profile connectors

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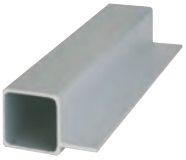
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Cover and adapter profiles
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Cover profile
Type I
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Slide rail
Type I
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Foot plates
Type B and Type I
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Cable tie block
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Cable clip
K1279

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Cable clip with T-slot key
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Earthing terminal
type I
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Potential equaliser
type I
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Telescopic slides



Telescopic slides
partial extension,
loading up to 15 kg
K0536



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Telescopic slides
over-extension,
loading up to 20kg
K0777



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Telescopic slides
over-extension,
loading up to 25kg,
stainless steel
K0778



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Telescopic slides
partial extension,
loading up to 35 kg
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Telescopic slides
full extension, separable,
loading up to 40 kg
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Telescopic slides
full extension, separable,
loading up to 52 kg
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Telescopic slides
over-extension,
loading up to 60 kg
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Telescopic slides
over-extension,
loading up to 60 kg
K0541



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Telescopic slides
with support bracket
over-extension,
loading up to 75 kg
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Telescopic slides
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loading up to 80 kg
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Telescopic slides
heavy-duty, full extension,
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Latches



Latches
with spring clip
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Latches
with draw bail
K0044



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with draw bail
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Latches adjustable
fastening holes accessible
K0046



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Latches adjustable
fastening holes covered
K0047



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Latches adjustable
fastening holes accessible
K0048



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Latches adjustable
fastening holes covered
K0049



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Latches adjustable
with swing bail
K0050



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Latches adjustable
K0051



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Latches adjustable
heavy-duty version
K0052



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Toggle clamps, power clamps



Toggle clamps horizontal
with flat foot and adjustable clamping spindle
K0660
KIPPlock

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Toggle clamps horizontal with safety interlock
with flat foot and adjustable clamping spindle
K0660
KIPPlock+

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Toggle clamps horizontal
with flat foot and adjustable clamping spindle, stainless steel
K0660
KIPPlock

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Toggle clamps horizontal with safety interlock
with flat foot and adjustable clamping spindle, stainless steel
K0660
KIPPlock+

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Toggle clamps horizontal
with straight foot and adjustable clamping spindle
K0661
KIPPlock

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Toggle clamps horizontal with safety interlock
with straight foot and adjustable clamping spindle
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Toggle clamps horizontal
with straight foot and adjustable clamping spindle, stainless steel
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Toggle clamps horizontal with safety interlock
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with flat foot and adjustable clamping spindle
K0662
KIPPlock+

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Toggle clamps vertical
with flat foot and adjustable clamping spindle, stainless steel
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KIPPlock

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Toggle clamps vertical with safety interlock
with flat foot and adjustable clamping spindle, stainless steel
K0662
KIPPlock+

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Toggle clamps vertical
with straight foot and adjustable clamping spindle
K0663
KIPPlock

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Toggle clamps vertical with safety interlock
with straight foot and adjustable clamping spindle
K0663
KIPPlock+

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Toggle clamps vertical
with straight foot and adjustable clamping spindle, stainless steel
K0663
KIPPlock

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Toggle clamps vertical with safety interlock
with straight foot and adjustable clamping spindle, stainless steel
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Toggle clamps, power clamps

Spherical seating nuts
K0664

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Toggle clamps vertical
with straight foot and adjustable clamping spindle
K0055

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Toggle clamps vertical
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K0056

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Toggle clamps vertical
with flat foot and adjustable clamping spindle
K0058

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Toggle clamps vertical with safety interlock
with flat foot and adjustable clamping spindle
K0059

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Toggle clamps vertical
with flat foot and fixed clamping spindle
K0060

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Toggle clamps vertical
with flat foot and full holding arm
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Toggle clamps vertical
with angled foot and adjustable clamping spindle
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Toggle clamps vertical
with angled foot and fixed clamping spindle
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Toggle clamps vertical
with angled foot and full holding arm
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with flat foot
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Toggle clamps vertical
heavy-duty with fixed clamping spindle
K0066

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Toggle clamps vertical
heavy-duty with full holding arm
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Toggle clamps mini horizontal
with straight foot and adjustable clamping spindle
K0068

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Toggle clamps mini horizontal
with flat foot and adjustable clamping spindle
K0069

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Toggle clamps mini horizontal
with flat foot and fixed clamping spindle
K0070

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Toggle clamps mini horizontal
with flat left foot and adjustable clamping spindle
K0071

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Toggle clamps mini horizontal
with flat right foot and adjustable clamping spindle
K0267

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Toggle clamps, power clamps

Toggle clamps horizontal
with straight foot and adjustable
clamping spindle
K0072



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Toggle clamps horizontal
with straight foot and full holding arm
K0073



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Toggle clamps horizontal
with flat foot and adjustable
clamping spindle
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with flat foot and fixed
clamping spindle
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Toggle clamps horizontal
with flat foot and full holding arm
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Toggle clamps hook horizontal
with catch plate
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Toggle clamps latch horizontal
with catch plate
K0080



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Toggle clamps latch horizontal
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Toggle clamps latch vertical
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Toggle clamps mini push-pull
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Toggle clamps push-pull
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Toggle clamps push-pull
with mounting bracket
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without mounting bracket
K0086



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Toggle clamps push-pull
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K0745



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Push-pull clamps
heavy-duty version with handle
K0087



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Push-pull clamps
heavy-duty version with
reversible hand lever
K0088



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Toggle clamps, power clamps

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Form A
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Pneumatic clamps horizontal
Form B
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Pneumatic clamps vertical
heavy-duty version
K0091

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Pneumatic clamps horizontal
heavy-duty version
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Pneumatic push-pull clamps
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Plastic grips
K0100

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Thrust screws
with thrust pad
K0688

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Thrust screws
with thrust pad
K0689

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Thrust screws neoprene
K0690

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Clamping spindles
rigid
K0101

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Clamping spindles
with swivel foot
K0102

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Clamping spindles
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Toggle clamps, power clamps

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Protective caps
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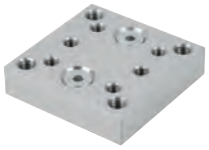
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Locking washers
for clamping spindles
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Adapter block
aluminium
K1210



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Adapter plate
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K1211



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Eccentric clamp modules
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Cam clamp
for eccentric clamp modules
K1212

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Clamp straps
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K0001

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Clamp straps
assorted, long slot
K0002

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Clamp strap assemblies
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Clamp straps
with adjustment unit
K0004

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K0007

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single
K0008

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Cam levers
double
K0009

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Cam clamps
single
K0010

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Cam clamps
double
K0011

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Hook clamps
K0012

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Hook clamps
with long hook
K0012

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Hook clamps
with soft pad
K0012

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Hook clamps
with collar
K0013

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Hook clamps ground
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Clamping elements

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with mounting bracket
K0016

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K0017

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Clamping element “actima”
K0020

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Clamping element “arness”
K0021

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Fixture clamps machinable
K0022

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Fixture clamps unequal hexagon
K0023

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Spiral cam screws
K0024

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Cam screws
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K0025

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Cam screws
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K0026

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Cam screws
with hexagon washer, for T-slots
K0027

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K0028

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K0031

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Wedge clamps
machinable
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Wedge clamps
jaw face smooth or serrated
K0039

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Wedge clamps
machinable
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Wedge clamps
jaw faces serrated
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Spring plungers, indexing plungers, ball lock pins



Spring plungers
with slot and ball, steel
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Spring plungers
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Spring plungers
plastic, with slot and POM ball
K0311



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stainless steel ball
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stainless steel
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Spring plungers
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Spring plungers
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Spring plungers
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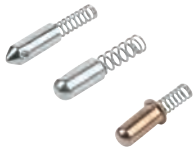
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with hexagon socket and POM thrust pin, LONG-LOK secured, stainless steel
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with head
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K0630

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short version
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K0735

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K1098

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Indexing plungers
without collar
K0343

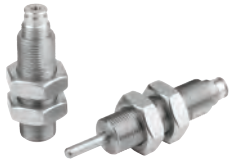
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K0633

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Indexing plungers
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K0634

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pneumatic
K1116

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without collar
K0344

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K0345

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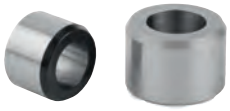
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K0637

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K1284

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K1285

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K0638

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K0349

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K0363

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K0792

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K0364

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K0791

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K0641

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Ball lock pins with grip ring, self-locking, stainless steel
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K0365

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Locking pins with key ring
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Locking pins with folding latch
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with T-grip, self-locking
K0366

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Ball lock pins
with T-grip, self-locking
K0792

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Ball lock pins
with L-grip, self-locking
K0642

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Ball lock pins
with L-grip, self-locking
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with T-grip, self-locking
K0793

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for ball lock pin
K1065

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Locking pin
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K1067

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K0367

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K0367



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K1125



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K0724



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Bushing for ball lock pins
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Self-aligning pads
K0282



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Self-aligning pads
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K0302



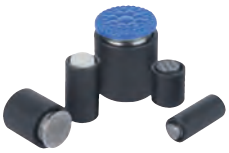
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Self-aligning pads
swivel angle 14° and 20°
K0283



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Self-aligning pads
with o-ring
K0284



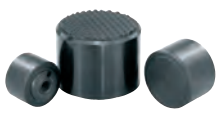
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Self-aligning pads
with o-ring and exchangeable inserts
K0285



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Self-aligning pads
self-righting
K0286



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Self-aligning pads
self-righting
K1164



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Self-aligning pads
with locknut
K0287



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Self-aligning pads
male thread, with O-ring
K0288



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Self-aligning pads
adjustable, with O-ring and exchangeable inserts
K0289



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Self-aligning pads
adjustable, with O-ring and hexagon socket
K0290



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Self-aligning pads
adjustable, with O-ring, exchangeable inserts and hexagon socket
K0291



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Ball-end thrust screws with head
K0380



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Ball-end thrust screws with head
stainless steel
K0381



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Ball-end thrust screws without head
with fine thread
K0382



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Ball-end thrust screws without head
with full ball
K0383



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Support elements, locating elements, stop elements

Ball-end thrust screws without head stainless steel with full ball
K0384

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Ball-end thrust screws without head with flattened ball
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Ball-end thrust screws without head stainless steel with flattened ball
K0384

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Ball-end thrust screws without head with flattened ball and rotation lock
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Ball-end thrust screws without head stainless steel with flattened ball and rotation lock
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Ball-end thrust screws without head with full ball, LONG-LOK secured
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Ball-end thrust screws without head with flattened ball LONG-LOK secured
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K0403

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K0385

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K0386

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K0389

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K0667

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K0668

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Locating pins with ball-end Form A
K0350

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Support elements, locating elements, stop elements

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K0350

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Locating pins
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ground
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not ground
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K0356

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K0292

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DIN 6321 (Issue 1973)
K0293

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Locating pins
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K1094

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K1105

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K1105

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K0296

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K0305

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K1200

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K0581

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K1214

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K0729

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K0691

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high version
K0692

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Levelling sets
with locknut
K0693

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low version
K0694

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K0695

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Support elements, locating elements, stop elements

Levelling sets
with locknut
K0097



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Levelling sets
spherical washer with locknut
K0115



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Levelling sets
spherical washer
K0057



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Levelling sets
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Sliding clamps
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K1070



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Shim plates
for sliding clamps for slotted hole
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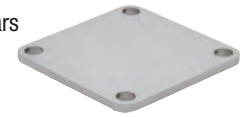
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K1072



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K1073



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K1147



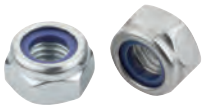
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Hexagon nuts
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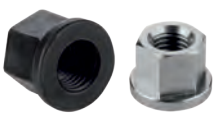
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Hexagon nuts with thread lock
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K1146



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Hexagon nuts with collar
height 1.5xD, DIN 6331 enhanced
K0701



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Hexagon nuts
height 1.5xD, DIN 6330 enhanced
K0702

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K0794

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K1150

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K0584

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K0730

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Shoulder screws with slotted flat head
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K0704

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Shoulder screws
similar to DIN ISO 7379
K0705

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with hexagon head, DIN 609
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K0707

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K0869

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K0869

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K0377

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K0378

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K0396

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K0400

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K0755

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Shaft collars set screw
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K0406



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Shaft collars with wing grip
similar to DIN 705, steel
K0407



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Shaft collars one-piece
K0611



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Shaft collar
one-piece,
with clamping lever
K0611



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Shaft collars two-piece
K0612



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Shaft collars
tapped
K0986



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Clevis
with external thread
K0397



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K0376



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Clamping joints
K0133



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Clamping joints
individually adjustable
K0134



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K1031



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K1033

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Type B
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Type I
K1036

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K1039

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Type B
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K1028

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K0709



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K0710



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K0127



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Circlips for ball seats
DIN 71805
K0714



Page 1262

Split pins
DIN EN ISO 1234
K1136



Page 1263

R-clips
DIN 11024
K1137



Page 1264

Axial joints
similar to DIN 71802
K0715



Page 1265

Rod ends with ball bearing
external thread
K0716



Page 1266

Joints

Rod ends with ball bearing internal thread
K0717

Page 1267

Rod ends with plain bearing external thread
K0718

Page 1268

Rod ends with plain bearing internal thread
K0719

Page 1269

Rod ends with plain bearing external thread, stainless steel
K0720

Page 1270

Rod ends with plain bearing internal thread, stainless steel
K0721

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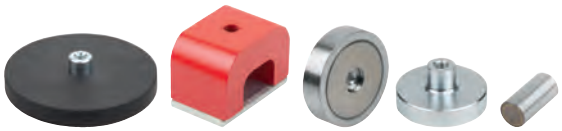
Rod ends with plain bearing external thread, narrow version
K0722

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Rod ends with plain bearing internal thread, narrow version
K0723

Page 1273

Magnets



Magnets deep pot
AlNiCo with fitting tolerance
K0545



Page 1277

Magnets deep pot
AlNiCo without fitting tolerance
K0546



Page 1278

Magnets deep pot with pin
AlNiCo
K0547



Page 1279

Magnets shallow pot
hard ferrite
K0548



Page 1280

Magnets shallow pot with thread
hard ferrite
K0549



Page 1281

Magnets shallow pot
SmCo
K0550



Page 1282

Magnets deep pot
SmCo
K0551



Page 1283

Magnets deep pot
with internal thread
NdFeB
K0552



Page 1284

Magnets shallow pot
NdFeB
K0553



Page 1285

Magnets shallow pot
with counterbore
hard ferrite
K0554



Page 1286

Magnets shallow pot
with countersink
hard ferrite
K0555



Page 1286

Magnets shallow pot
with internal thread
NdFeB
K0556



Page 1287

Magnets deep pot
K0557



Page 1287

Magnets shallow pot
K0558



Page 1288

Magnets button
K0559



Page 1288

Magnets strong
K0560



Page 1289

Magnets

Protective rubber caps
for shallow pot magnets
K0561



Page 1289

Magnets shallow pot
with internal thread
NdFeB,
with rubber protective jacket
K0562



Page 1290

Magnets shallow pot
with tapped pin
NdFeB,
with rubber protective jacket
K0563



Page 1291

Magnets shallow pot
with threaded pin
NdFeB,
with rubber protective jacket
K0564



Page 1292

Magnets shallow pot
with through hole
NdFeB,
with rubber protective jacket
K0565



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Buffer elements



Rubber buffers
steel or stainless steel, type A
K0566



Page 1297

Rubber buffers
type AT tapered
K0567



Page 1298

Rubber buffers
steel or stainless steel, type B
K0568



Page 1299

Rubber buffers
steel or stainless steel, type C
K0569



Page 1300

Rubber buffers
type CT tapered
K0570



Page 1301

Rubber buffers
steel or stainless steel, type D
K0571



Page 1302

Rubber buffers
type DS suction foot
K0572



Page 1303

Rubber buffers
type E
K0573



Page 1304

Rubber buffers
parabolic
K0574



Page 1306

Rubber buffers
conical
K0575



Page 1307

Rubber buffers
spherical
K0576



Page 1307

Level indicators, screw plugs



Oil level gauges
K0443



Page 1310

Oil level gauges
K0444



Page 1311

Oil level gauge
long version
K1100



Page 1312

Oil level sight glasses
K0445



Page 1313

Oil level sight glasses
press-in
K0446



Page 1314

Oil level sight glasses
domed
K0447



Page 1314

Oil level sight glasses
aluminium
K0448



Page 1315

Oil level sight glasses
aluminium, glass window
K0246



Page 1316

Screw plugs
with hexagon socket
DIN 906, tapered thread
K1129



Page 1317

Screw plugs
with collar and hexagon socket
DIN 908
K1130



Page 1318

Screw plugs hex head
with collar
DIN 910
K1131



Page 1319

Screw plugs
K0449



Page 1320

Screw plugs
K0450



Page 1321

Press-in plugs
K0451



Page 1321

Screw plugs with magnet
K0452



Page 1322

Screw plugs aluminium
with magnet
K0453



Page 1322

Level indicators, screw plugs

Screw plugs
K0454

Page 1323

Plugs fill
knurled cap
K0455

Page 1324

Screw plugs
with hexagon socket
K1102

Page 1325

Screw plugs aluminium
K1104

Page 1326

Caps for filler necks
K0456

Page 1327

Vent screws
K0457

Page 1327

Vent screws
with splash guard
K0458

Page 1328

Vent screws
with check valve
K0459

Page 1329

Vent screws brass
K0460

Page 1330

Vent screws brass
with check valve
K0461

Page 1330

Press-in plugs
with dipstick
K0462

Page 1331

Vent screws
with dipstick
K0465

Page 1332

Vent screws
with check valve
and dipstick
K0467

Page 1333

Screw plugs
with dipstick
K1101

Page 1334

Dipsticks
K0468

Page 1335

Filler necks
K0470

Page 1336

Filler neck
K1103

Page 1337

Filler necks
K0471

Page 1338

NEW PRODUCTS EXPANDED

Level indicators, screw plugs

Grease nipples
conical head DIN 71412
K1132



Page 1341

Grease nipple caps
for conical head grease nipples
K1133



Page 1342

Grease nipples
flush type DIN 3405
K1134



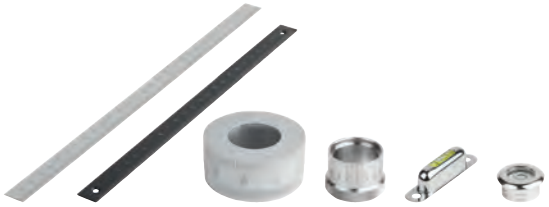
Page 1343

Grease nipples
button head DIN 3404
K1135



Page 1344

Scales, scale rings, level vials



Linear scales
self adhesive or
with screw holes, aluminium
K0757



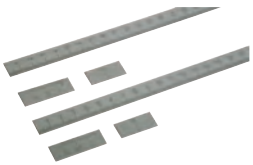
Page 1348

Linear scales
self-adhesive or
with screw holes, aluminium
K0758



Page 1349

Linear scales
self-adhesive, stainless steel
K0759



Page 1350

Bullseye levels
in frame, to screw on
K1154



Page 1351

Bullseye levels
in plastic frame
K1153



Page 1352

Bullseye levels
with bead-edged frame
K1152



Page 1353

Bullseye levels
in round frame
K1155



Page 1354

Bullseye level body
K1156



Page 1355

Bullseye level body
plastic
K1157



Page 1356

Tubular bubble levels
with frame to screw on
K1158



Page 1357

Scale rings
to customer specifications



Page 1158

Material handling



Ring bolts
DIN 580 / stainless steel
similar to DIN 580
K0767



Page 1362

Ring nuts
DIN 582 / stainless steel
similar to DIN 582
K0768



Page 1363

Ring bolts rotatable
high-strength grade 10
K0769



Page 1364

Ring bolts
swivel, 360° rotatable, grade 8
K0770



Page 1365

Weld-on D-ring
K0773



Page 1366

D-Shackle
K1059



Page 1367

Bow shackle
K1058



Page 1368

Mini ball transfer units
K0749



Page 1370

Ball transfer units
with steel housing
K0760



Page 1371

Ball transfer units
with steel housing
and plastic ball
K0761



Page 1372

Ball transfer units
undersprung
K0762



Page 1373

Ball transfer units
with solid steel housing
K0763



Page 1374

Ball transfer units
with fastening holes,
without housing
K0764



Page 1375

Ball transfer units
with spring clips
K0765



Page 1376

Tolerance rings
K0766



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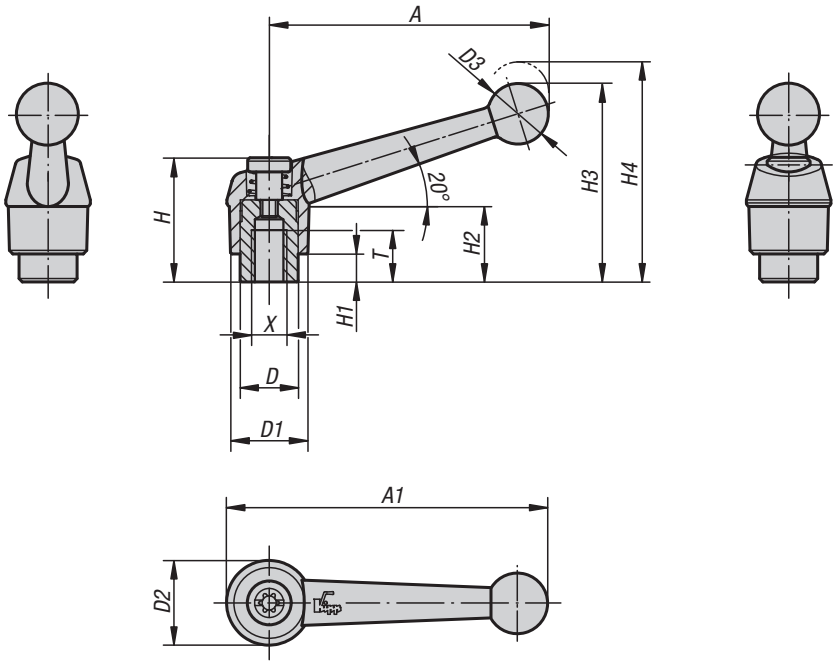
Clamping levers, tension levers, cam levers



Clamping levers

internal thread





Material:
Handle die-cast zinc DIN EN 12844.
Steel parts grade 5.8.

Version:
Handle plastic-coated,
steel parts black oxidised.

Sample order:
K0116.4103

Note:
Standard colours are:
black satin finish, silver metallic.

On request:
Other internal threads, colours and special versions.
Dimension “H1” available in other lengths at extra charge.

lift to disengage

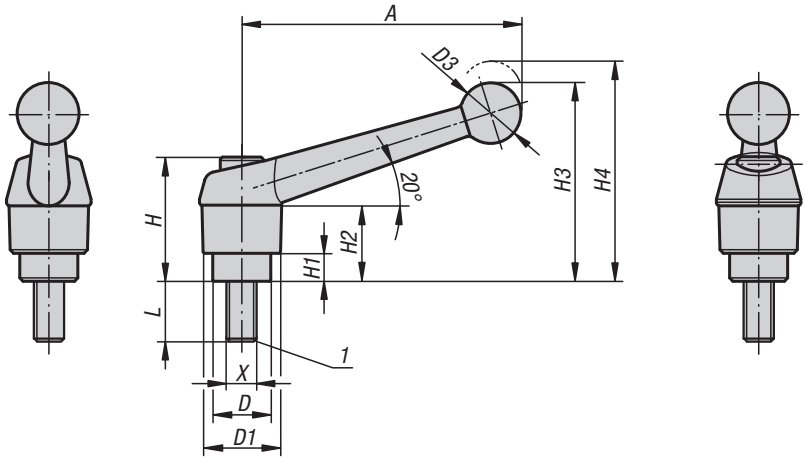


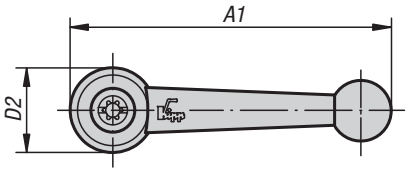
KIPP Clamping levers with internal thread

Order No. Black satin finish	Order No. Silver metallic	Size	X	T	D	D1	D2	D3	H	H1	H2	H3	H4	A	A1	No. of teeth
K0116.1041	**K0116.1043**	1	M4	9	10	13	14	10,5	24,5	4	15	32,5	35,5	39	46	16
K0116.1051	**K0116.1053**	1	M5	9	10	13	14	10,5	24,5	4	15	32,5	35,5	39	46	16
K0116.1061	**K0116.1063**	1	M6	9	10	13	14	10,5	24,5	4	15	32,5	35,5	39	46	16
K0116.2061	**K0116.2063**	2	M6	12	13,5	18	18,5	15,5	28,5	6,5	16,5	45,5	49,5	64	73	20
K0116.2081	**K0116.2083**	2	M8	12	13,5	18	18,5	15,5	28,5	6,5	16,5	45,5	49,5	64	73	20
K0116.3081	**K0116.3083**	3	M8	14	16	21	22	17	37	10	23	57,5	61,5	79	90	22
K0116.3101	**K0116.3103**	3	M10	14	16	21	22	17	37	10	23	57,5	61,5	79	90	22
K0116.4101	**K0116.4103**	4	M10	17	19	25	26	19	42,5	10	26	67	72	95	108	24
K0116.4121	**K0116.4123**	4	M12	17	19	25	26	19	42,5	10	26	67	72	95	108	24
K0116.5121	**K0116.5123**	5	M12	23	23	30	31	22	49	12	32	79	84	110	126	26
K0116.5161	**K0116.5163**	5	M16	23	23	30	31	22	49	12	32	79	84	110	126	26

Clamping levers

external thread









Material:
Handle die-cast zinc DIN EN 12844.
Steel parts grade 5.8.

Version:
Handle plastic-coated.
Steel black oxidised.

Sample order:
K0116.1051X20 (include length L)

Note:
Standard colours are:
black satin finish, silver metallic.

On request:
Other external threads, screw lengths, colours and special versions.
Dimension “H1” available in other lengths at extra charge.

Drawing reference:
1) flat point DIN 78

KIPP Specifications

Size	X	D	D1	D2	D3	H	H1	H2	H3	H4	A	A1	No. of teeth
1	M5/M6	10	13	14	10,5	24,5	4	15	32,5	35,5	39	46	16
2	M6/M8/M10	13,5	18	18,5	15,5	28,5	6,5	16,5	45,5	49,5	64	73	20
3	M8/M10	16	21	22	17	37	10	23	57,5	61,5	79	90	22
4	M10/M12	19	25	26	19	42,5	10	26	67	72	95	108	24
5	M12/M16	23	30	31	22	49	12	32	79	84	110	126	26

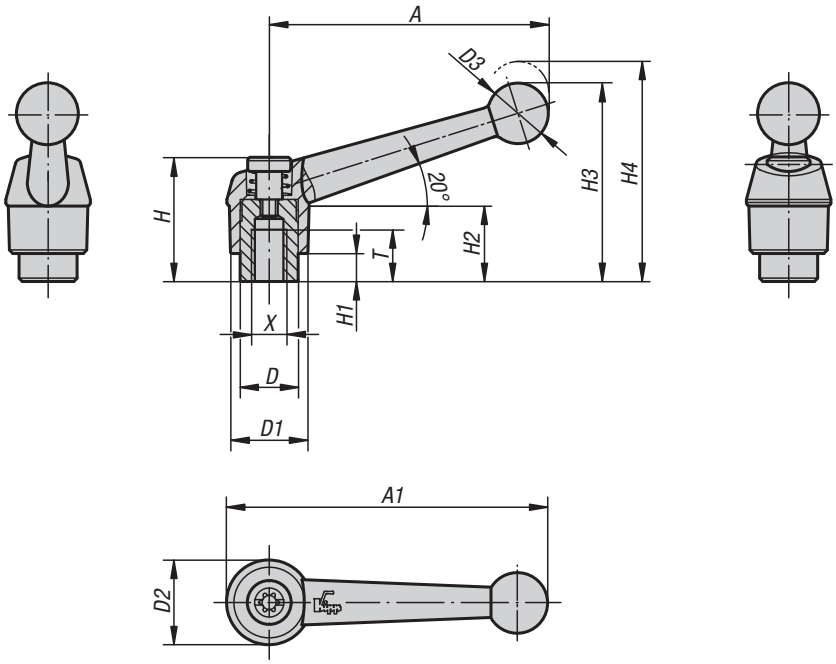
KIPP Clamping levers with external thread

Order No. Black satin finish	Order No. Silver metallic	Size	X	L
K0116.1051X	**K0116.1053X**	1	M5	10/15/20/25/30/35/40/45/50
K0116.1061X	**K0116.1063X**	1	M6	10/15/20/25/30/35/40/45/50
K0116.2061X	**K0116.2063X**	2	M6	15/20/25/30/35/40/45/50/55/60
K0116.2081X	**K0116.2083X**	2	M8	15/20/25/30/35/40/45/50/55/60
K0116.2101X	**K0116.2103X**	2	M10	15/20/25/30/35/40/45/50/55/60
K0116.3081X	**K0116.3083X**	3	M8	15/20/25/30/35/40/45/50/55/60
K0116.3101X	**K0116.3103X**	3	M10	15/20/25/30/35/40/45/50/55/60
K0116.4101X	**K0116.4103X**	4	M10	20/25/30/35/40/45/50/55/60/70/80/90
K0116.4121X	**K0116.4123X**	4	M12	20/25/30/35/40/45/50/55/60/70/80/90
K0116.5121X	**K0116.5123X**	5	M12	25/30/35/40/45/50/55/60/70/80/90
K0116.5161X	**K0116.5163X**	5	M16	25/30/35/40/45/50/55/60/70/80/90

Clamping levers

internal thread, steel parts stainless steel





Material:
Handle die-cast zinc DIN EN 12844.
Steel parts stainless steel 1.4305.

Version:
Handle plastic-coated.
Steel parts bright.

Sample order:
K0117.2061

Note:
Standard colours are:
black satin finish, silver metallic.

On request:
Other internal threads, colours and special versions.
Dimension “H1” available in other lengths at extra charge.



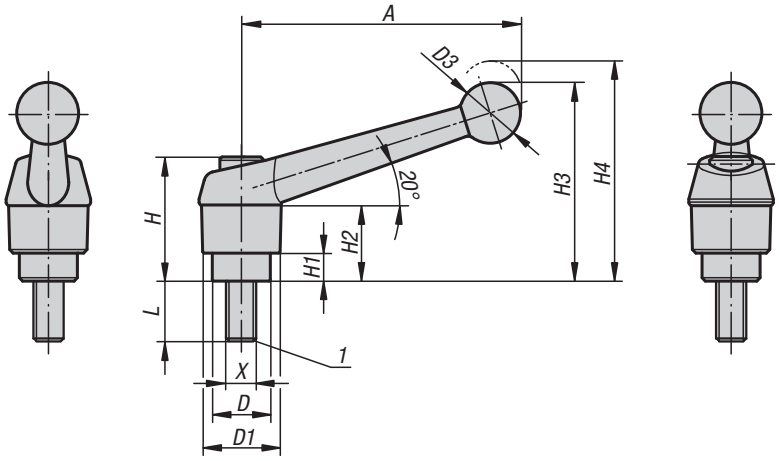
KIPP Clamping levers with internal thread, steel parts stainless steel

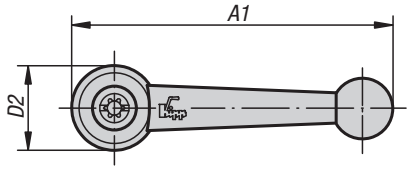
Order No. Black satin finish	Order No. Silver metallic	Size	X	T	D	D1	D2	D3	H	H1	H2	H3	H4	A	A1	No. of teeth
K0117.1041	**K0117.1043**	1	M4	9	10	13	14	10,5	24,5	4	15	32,5	35,5	39	46	16
K0117.1051	**K0117.1053**	1	M5	9	10	13	14	10,5	24,5	4	15	32,5	35,5	39	46	16
K0117.1061	**K0117.1063**	1	M6	9	10	13	14	10,5	24,5	4	15	32,5	35,5	39	46	16
K0117.2061	**K0117.2063**	2	M6	12	13,5	18	18,5	15,5	28,5	6,5	16,5	45,5	49,5	64	73	20
K0117.2081	**K0117.2083**	2	M8	12	13,5	18	18,5	15,5	28,5	6,5	16,5	45,5	49,5	64	73	20
K0117.3081	**K0117.3083**	3	M8	14	16	21	22	17	37	10	23	57,5	61,5	79	90	22
K0117.3101	**K0117.3103**	3	M10	14	16	21	22	17	37	10	23	57,5	61,5	79	90	22
K0117.4101	**K0117.4103**	4	M10	17	19	25	26	19	42,5	10	26	67	72	95	108	24
K0117.4121	**K0117.4123**	4	M12	17	19	25	26	19	42,5	10	26	67	72	95	108	24
K0117.5121	**K0117.5123**	5	M12	23	23	30	31	22	49	12	32	79	84	110	126	26
K0117.5161	**K0117.5163**	5	M16	23	23	30	31	22	49	12	32	79	84	110	126	26

Clamping levers

external thread, steel parts stainless steel









Material:
Handle die-cast zinc DIN EN 12844.
Steel parts stainless steel 1.4305.

Version:
Handle plastic-coated.
Stainless steel bright.

Sample order:
K0117.1051X20 (include length L)

Note:
Standard colours are:
black satin finish, silver metallic.

On request:
Other external threads, screw lengths, colours and special versions.
Dimension “H1” available in other lengths at extra charge.

Drawing reference:
1) flat point DIN 78

KIPP Specifications

Size	X	D	D1	D2	D3	H	H1	H2	H3	H4	A	A1	No. of teeth
1	M5/M6	10	13	14	10,5	24,5	4	15	32,5	35,5	39	46	16
2	M6/M8/M10	13,5	18	18,5	15,5	28,5	6,5	16,5	45,5	49,5	64	73	20
3	M8/M10	16	21	22	17	37	10	23	57,5	61,5	79	90	22
4	M12	19	25	26	19	42,5	10	26	67	72	95	108	24
5	M16	23	30	31	22	49	12	32	79	84	110	126	26

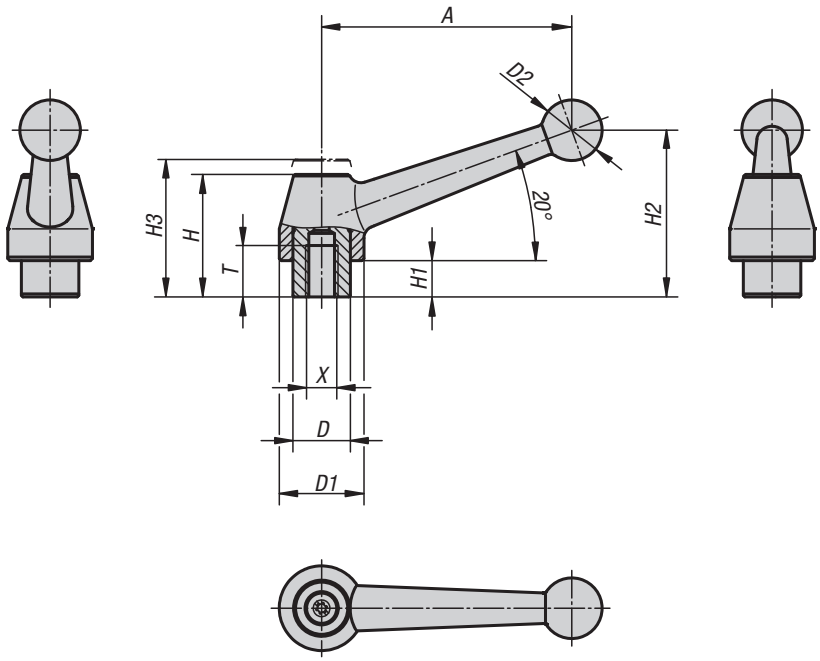
KIPP Clamping levers with external thread, steel parts stainless steel

Order No. Black satin finish	Order No. Silver metallic	Size	X	L
K0117.1051X	**K0117.1053X**	1	M5	10/15/20/25
K0117.1061X	**K0117.1063X**	1	M6	10/15/20/25/30/40/50
K0117.2061X	**K0117.2063X**	2	M6	15/20/25/30/40/50/60
K0117.2081X	**K0117.2083X**	2	M8	15/20/25/30/40/50/60
K0117.2101X	**K0117.2103X**	2	M10	20/25/30/40/50/60
K0117.3081X	**K0117.3083X**	3	M8	20/25/30/40/50/60
K0117.3101X	**K0117.3103X**	3	M10	20/25/30/40/50/60
K0117.4121X	**K0117.4123X**	4	M12	25/30/40/50/60
K0117.5161X	**K0117.5163X**	5	M16	30/40/50/60

Clamping levers steel

internal thread





Material:
Handle 1.0401.
All other steel parts grade 5.8.

Version:
Handle painted silver-grey hammertone.
Steel parts black oxidised.

Sample order:
K0120.108

On request:
Other internal threads and special versions.
Dimension “H1” available in other lengths at extra charge.



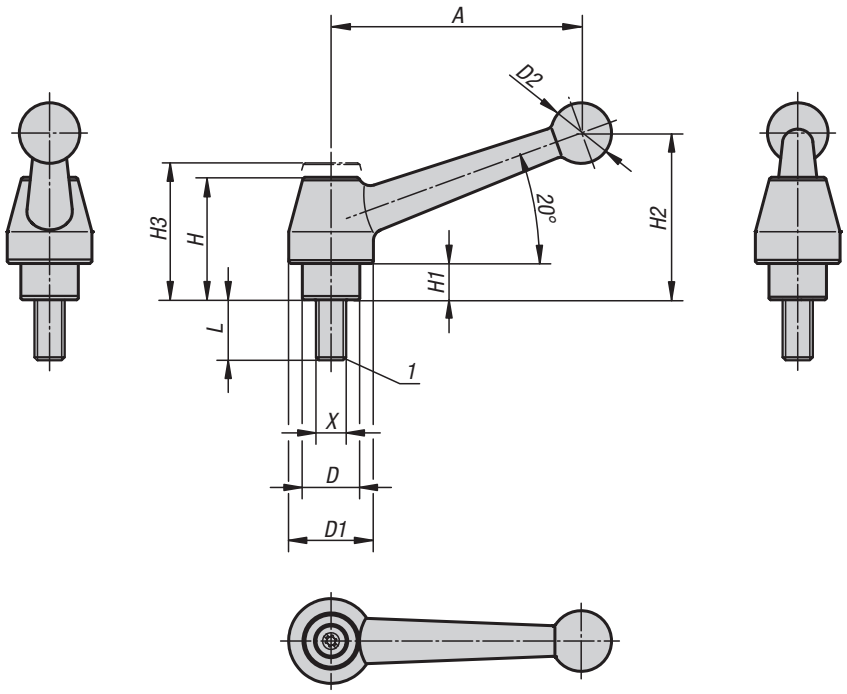
KIPP Clamping levers with internal thread

Order No.	Main material	Size	X	T	D	D1	D2	H	H1	H2	H3	A	No. of teeth
K0120.108	steel	1	M8	17	19	28	20	41	12	54	49	83	24
K0120.110	steel	1	M10	17	19	28	20	41	12	54	49	83	24
K0120.112	steel	1	M12	17	19	28	20	41	12	54	49	83	24
K0120.212	steel	2	M12	23	23	35	25	50	12	69	56	108	26
K0120.216	steel	2	M16	23	23	35	25	50	12	69	56	108	26
K0120.316	steel	3	M16	27	30	43	30	58,5	12	78	65	132	36
K0120.320	steel	3	M20	27	30	43	30	58,5	12	78	65	132	36

Clamping levers steel

external thread





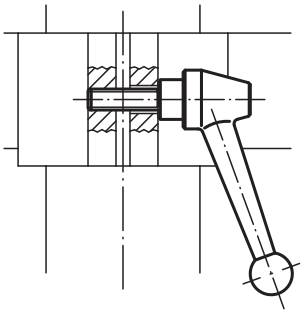
Material:
Handle 1.0401.
All other steel parts grade 5.8.

Version:
Handle painted silver-grey hammertone.
Steel parts black oxidised.

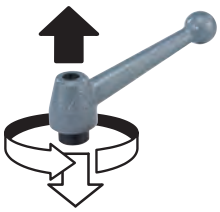
Sample order:
K0120.110X30 (include length L)

On request:
Other external threads, screw lengths and special versions.
Dimension “H1” available in other lengths at extra charge.

Drawing reference:
1) flat point DIN 78



lift to disengage



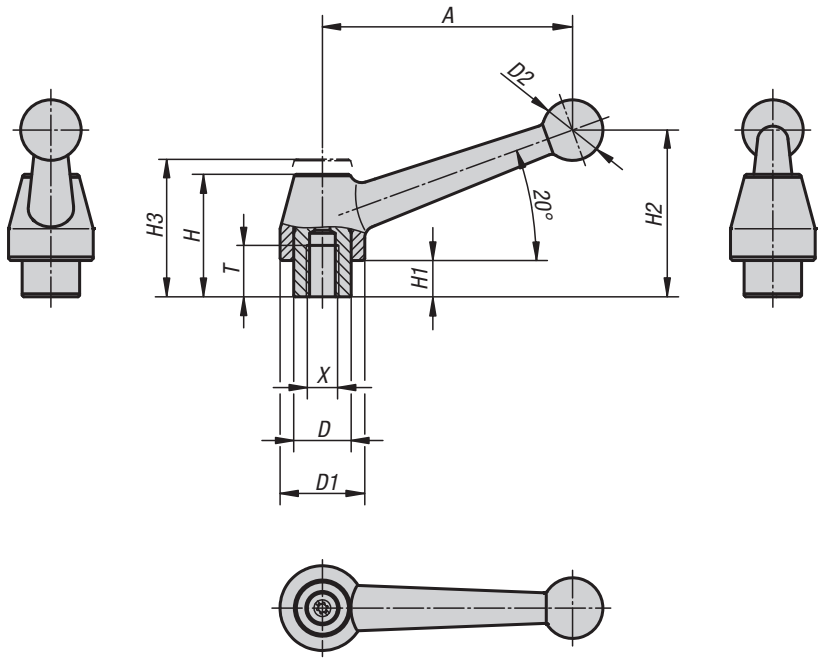
KIPP Clamping levers with external thread

Order No.	Main material	Size	X	D	D1	D2	H	H1	H2	H3	A	No. of teeth	L
K0120.110X	steel	1	M10	19	28	20	41	12	54	49	83	24	20/25/30/35/40/45/50/55/60/70/80/90
K0120.112X	steel	1	M12	19	28	20	41	12	54	49	83	24	20/25/30/35/40/45/50/55/60/70/80/90
K0120.212X	steel	2	M12	23	35	25	50	12	69	56	108	26	25/30/35/40/45/50/55/60/70/80/90
K0120.216X	steel	2	M16	23	35	25	50	12	69	56	108	26	25/30/35/40/45/50/55/60/70/80/90
K0120.316X	steel	3	M16	30	43	30	58,5	12	78	65	132	36	30/40/50/60/70/80/90
K0120.320X	steel	3	M20	30	43	30	58,5	12	78	65	132	36	30/40/50/60/70/80/90

Clamping levers stainless steel

internal thread





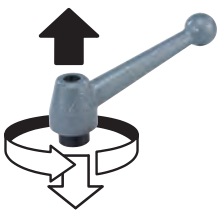
Material:
Handle stainless steel 1.4308.
All other metal parts stainless steel 1.4305

Version:
Handle stainless steel electrolytic polished.
Steel parts bright.

Sample order:
K0121.1108

On request:
Other internal threads and special versions.
Dimension “H1” available in other lengths at extra charge.

lift to disengage



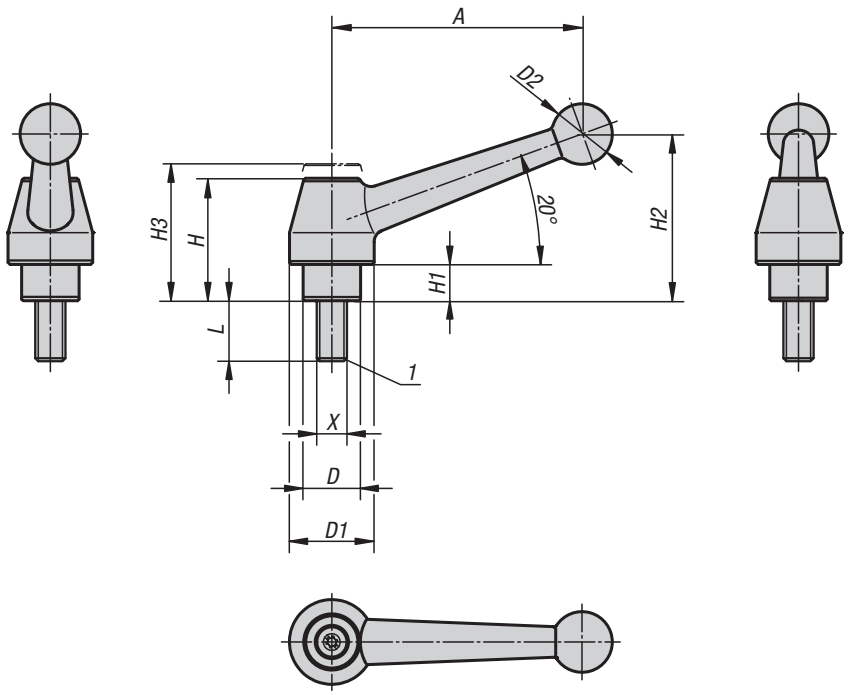
KIPP Clamping levers with internal thread, stainless steel

Order No.	Main material	Size	X	T	D	D1	D2	H	H1	H2	H3	A	No. of teeth
K0121.1108	stainless steel	1	M8	17	19	28	20	41	12	54	49	83	24
K0121.1110	stainless steel	1	M10	17	19	28	20	41	12	54	49	83	24
K0121.1112	stainless steel	1	M12	17	19	28	20	41	12	54	49	83	24

Clamping levers stainless steel

external thread





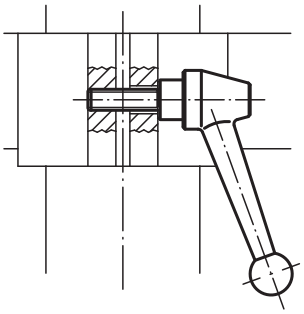
Material:
Handle stainless steel 1.4308.
All other metal parts stainless steel 1.4305

Version:
Handle stainless steel electrolytic polished.
Steel parts bright.

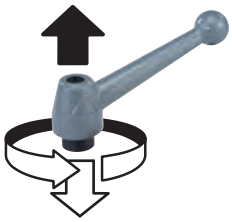
Sample order:
K0121.1110X30 (include length L)

On request:
Other external threads, screw lengths and special versions.
Dimension “H1” available in other lengths at extra charge.

Drawing reference:
1) flat point DIN 78



lift to disengage



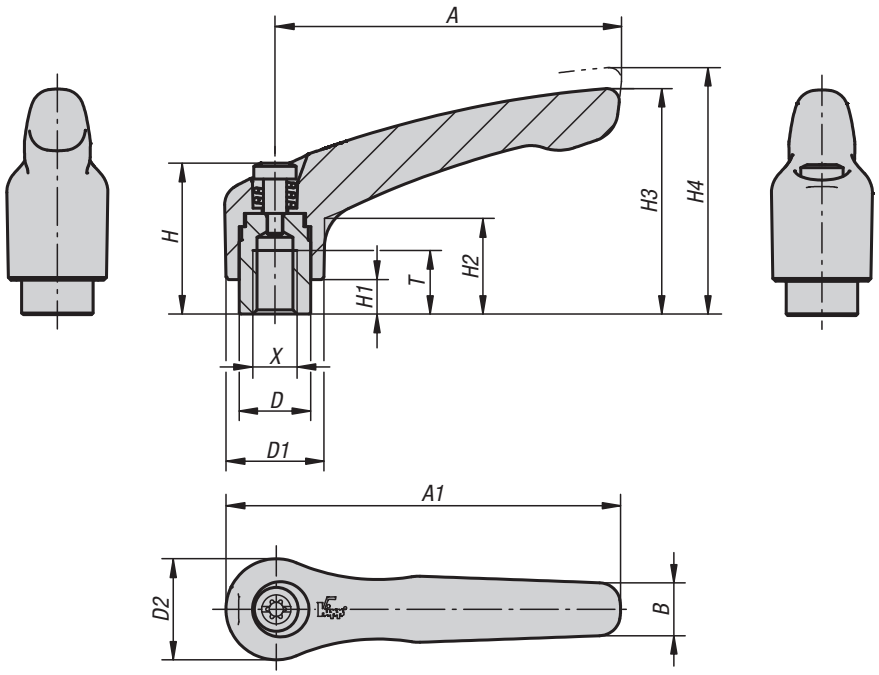
KIPP Clamping levers with external thread, stainless steel

Order No.	Main material	Size	X	D	D1	D2	H	H1	H2	H3	A	No. of teeth	L
K0121.1110X	stainless steel	1	M10	19	28	20	41	12	54	49	83	24	25/30/40/50/60
K0121.1112X	stainless steel	1	M12	19	28	20	41	12	54	49	83	24	25/30/40/50/60

Clamping levers steel

internal thread





Material:
Handle 1.0401.
All other steel parts grade 5.8.

Version:
Handle plastic-coated, fine-textured structure.
Steel parts black oxidised.

Sample order:
K0752.1051

Note:
Standard colours are:
black or ruby red RAL 3003.

lift to disengage



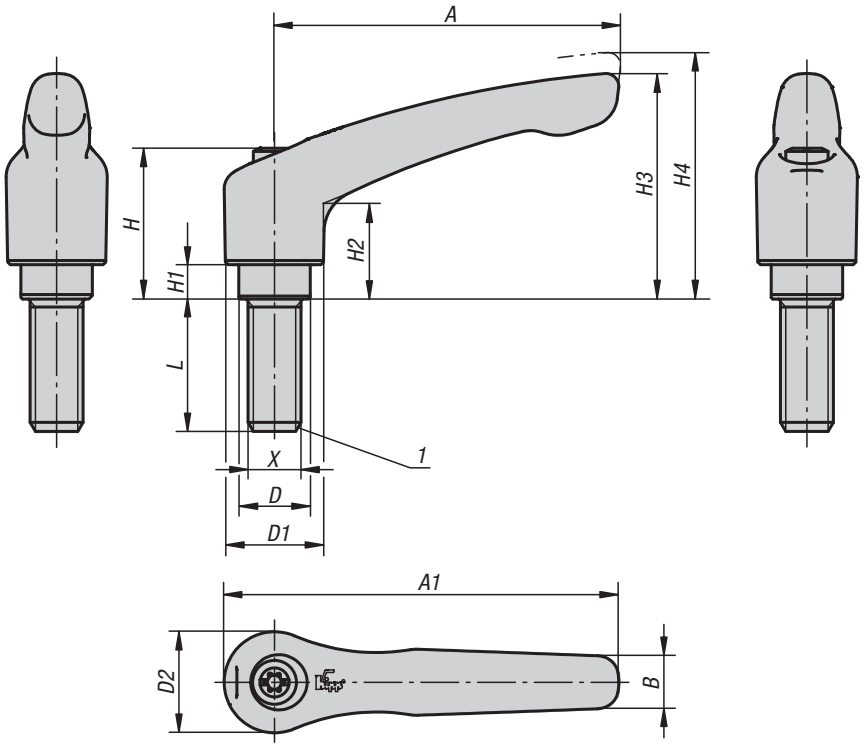
KIPP Clamping levers with internal thread

Order No. black	Order No. red RAL 3003	Size	X	T	D	D1	D2	H	H1	H2	H3	H4	A	A1	B	No. of teeth
K0752.1041	**K0752.10427**	1	M4	9	10	13	14	24,5	4	14,5	31	34	40	47	7	16
K0752.1051	**K0752.10527**	1	M5	9	10	13	14	24,5	4	14,5	31	34	40	47	7	16
K0752.1061	**K0752.10627**	1	M6	9	10	13	14	24,5	4	14,5	31	34	40	47	7	16
K0752.2061	**K0752.20627**	2	M6	12	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	65	74,5	10	20
K0752.2081	**K0752.20827**	2	M8	12	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	65	74,5	10	20
K0752.3081	**K0752.30827**	3	M8	14	16	21	22	37	10	24	54,5	58,5	80	91	11	22
K0752.3101	**K0752.31027**	3	M10	14	16	21	22	37	10	24	54,5	58,5	80	91	11	22
K0752.4101	**K0752.41027**	4	M10	17	19	27	27,5	43	10	27	63	67,5	95	109	13	24
K0752.4121	**K0752.41227**	4	M12	17	19	27	27,5	43	10	27	63	67,5	95	109	13	24
K0752.5121	**K0752.51227**	5	M12	23	23	31	32	49	12	31,5	73	77,5	110	126	15	26
K0752.5161	**K0752.51627**	5	M16	23	23	31	32	49	12	31,5	73	77,5	110	126	15	26

Clamping levers steel

external thread





Material:
Handle 1.0401.
All other steel parts grade 5.8.

Version:
Handle plastic-coated, fine-textured structure.
Steel parts black oxidised.

Sample order:
K0752.1051X20

Note:
Standard colours are:
black or ruby red RAL 3003.

Drawing reference:
1) flat point DIN 78

lift to disengage



KIPP Specifications

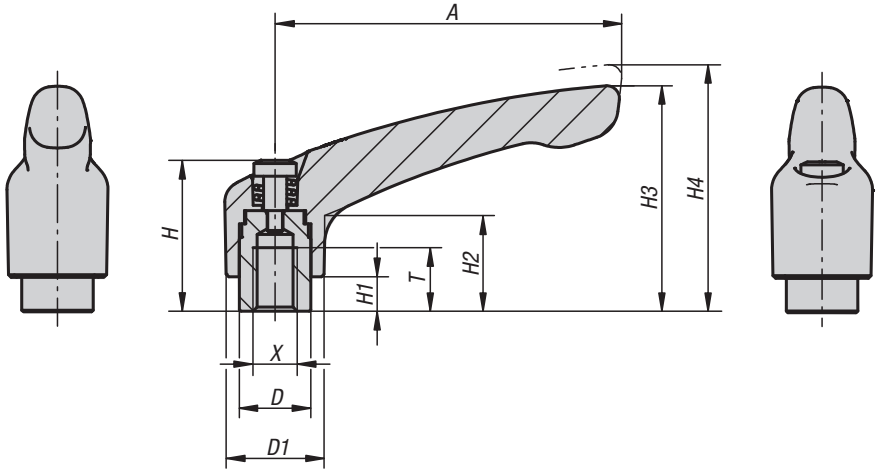
Size	X	D	D1	D2	H	H1	H2	H3	H4	A	A1	B	No. of teeth
1	M5/M6	10	13	14	24,5	4	14,5	31	34	40	47	7	16
2	M6/M8/M10	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	65	74,5	10	20
3	M8/M10	16	21	22	37	10	24	54,5	58,5	80	91	11	22
4	M10/M12	19	27	27,5	43	10	27	63	67,5	95	109	13	24
5	M12/M16	23	31	32	49	12	31,5	73	77,5	110	126	15	26

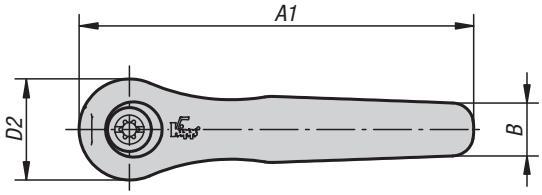
KIPP Clamping levers with external thread

Order No. black	Order No. red RAL 3003	Size	X	L
K0752.1051X	**K0752.10527X**	1	M5	10/15/20/25/30/35/40/45/50
K0752.1061X	**K0752.10627X**	1	M6	10/15/20/25/30/35/40/45/50
K0752.2061X	**K0752.20627X**	2	M6	15/20/25/30/35/40/45/50/55/60
K0752.2081X	**K0752.20827X**	2	M8	15/20/25/30/35/40/45/50/55/60
K0752.2101X	**K0752.21027X**	2	M10	15/20/25/30/35/40/45/50/55/60
K0752.3081X	**K0752.30827X**	3	M8	15/20/25/30/35/40/45/50/55/60
K0752.3101X	**K0752.31027X**	3	M10	15/20/25/30/35/40/45/50/55/60
K0752.4101X	**K0752.41027X**	4	M10	20/25/30/35/40/45/50/55/60/70/80/90
K0752.4121X	**K0752.41227X**	4	M12	20/25/30/35/40/45/50/55/60/70/80/90
K0752.5121X	**K0752.51227X**	5	M12	25/30/35/40/45/50/55/60/70/80/90
K0752.5161X	**K0752.51627X**	5	M16	25/30/35/40/45/50/55/60/70/80/90

Clamping levers

internal thread







Material:
Handle die-cast zinc DIN EN 12844.
Steel parts grade 5.8.

Version:
Handle plastic-coated or high-gloss chromed.
Steel parts black oxidised.

Sample order:
K0122.1041

Note:
Δ Add the desired lever colour here.
Standard colours are:
black satin finish, orange RAL 2004, ruby red RAL 3003, silver metallic, high gloss chromed.
Where L ≥ 60 mm the thread length is 60 mm.

On request:
Other internal threads, colours and special versions.
Dimension “H1” available in other lengths at extra charge.



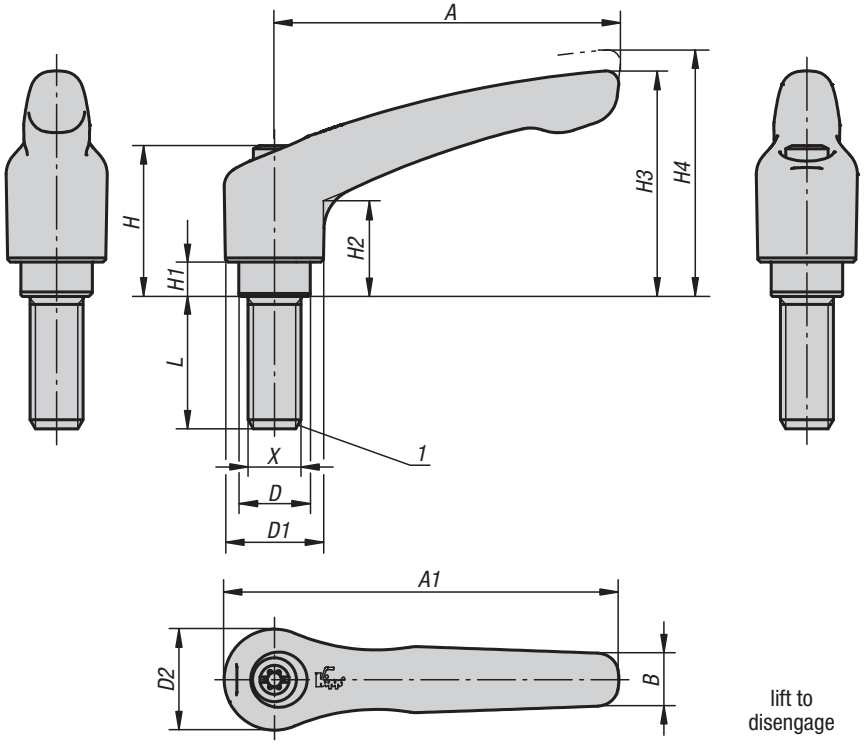
black satin finish Δ = 1	orange Δ = 2	ruby red Δ = 27	silver metallic Δ = 3	high-gloss chromed Δ = 6
	 RAL 2004	 RAL 3003		

KIPP Clamping levers with internal thread

Order No.	Size	X	T	D	D1	D2	H	H1	H2	H3	H4	A	A1	B	No. of teeth
K0122.003Δ	0	M3	9	10	13	14	24,5	4	14,5	30	33	30	37	7	16
K0122.004Δ	0	M4	9	10	13	14	24,5	4	14,5	30	33	30	37	7	16
K0122.005Δ	0	M5	9	10	13	14	24,5	4	14,5	30	33	30	37	7	16
K0122.104Δ	1	M4	9	10	13	14	24,5	4	14,5	31	34	40	47	7	16
K0122.105Δ	1	M5	9	10	13	14	24,5	4	14,5	31	34	40	47	7	16
K0122.106Δ	1	M6	9	10	13	14	24,5	4	14,5	31	34	40	47	7	16
K0122.206Δ	2	M6	12	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	65	74,5	9,5	20
K0122.208Δ	2	M8	12	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	65	74,5	9,5	20
K0122.308Δ	3	M8	14	16	21	22	37	10	24	54,5	58,5	80	91	11	22
K0122.310Δ	3	M10	14	16	21	22	37	10	24	54,5	58,5	80	91	11	22
K0122.410Δ	4	M10	17	19	27	27,5	43	10	27	63	67,5	95	109	13	24
K0122.412Δ	4	M12	17	19	27	27,5	43	10	27	63	67,5	95	109	13	24
K0122.512Δ	5	M12	23	23	31	32	49	12	31,5	73	77,5	110	126	15	26
K0122.516Δ	5	M16	23	23	31	32	49	12	31,5	73	77,5	110	126	15	26

Clamping levers

external thread





Material:
Handle die-cast zinc DIN EN 12844.
Steel parts grade 5.8.

Version:
Handle plastic-coated or high-gloss chromed.
Steel parts black oxidised.

Sample order:
K0122.0041X10 (clamping lever, black satin finish; include length L)

Note:
Δ Add the desired lever colour here.
Standard colours are:
black satin finish, orange RAL 2004, ruby red RAL 3003, silver metallic, high gloss chromed.
Where L ≥ 60 mm the thread length is 60 mm.

On request:
Other external threads, screw lengths, colours and special versions.
Dimension “H1” available in other lengths at extra charge.

Drawing reference:
1) flat point DIN 78



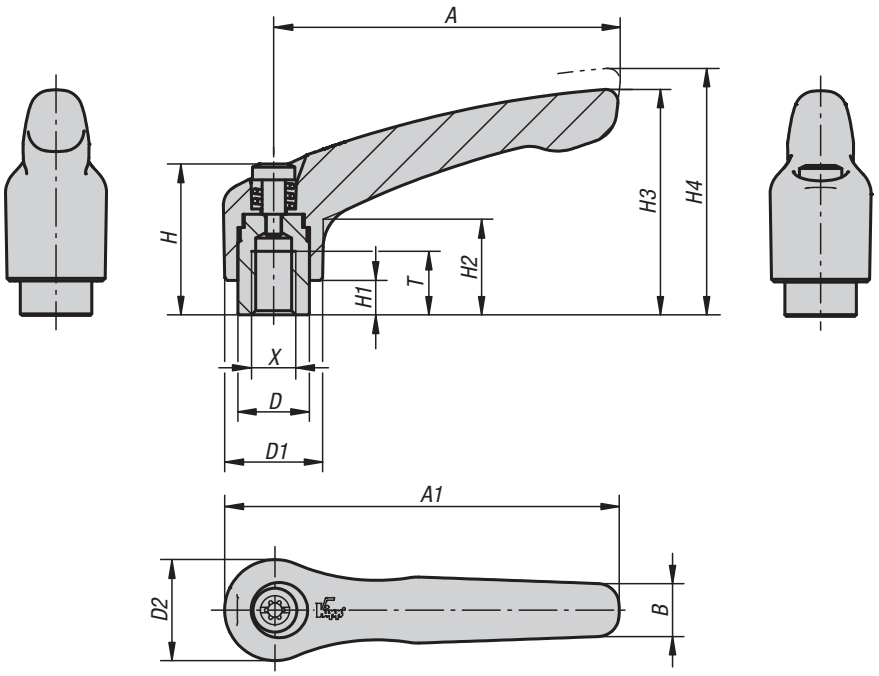
black satin finish Δ = 1	orange Δ = 2	ruby red Δ = 27	silver metallic Δ = 3	high-gloss chromed Δ = 6
	 RAL 2004	 RAL 3003		

KIPP Clamping levers with external thread

Order No.	Size	X	D	D1	D2	H	H1	H2	H3	H4	A	A1	B	L	No. of teeth
K0122.004ΔX	0	M4	10	13	14	24,5	4	14,5	30	33	30	37	7	10/15/20/25/30/35/40/45/50	16
K0122.005ΔX	0	M5	10	13	14	24,5	4	14,5	30	33	30	37	7	10/15/20/25/30/35/40/45/50	16
K0122.105ΔX	1	M5	10	13	14	24,5	4	14,5	31	34	40	47	7	10/15/20/25/30/35/40/45/50	16
K0122.106ΔX	1	M6	10	13	14	24,5	4	14,5	31	34	40	47	7	10/15/20/25/30/35/40/45/50	16
K0122.206ΔX	2	M6	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	65	74,5	9,5	15/20/25/30/35/40/45/50/55/60	20
K0122.208ΔX	2	M8	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	65	74,5	9,5	15/20/25/30/35/40/45/50/55/60	20
K0122.210ΔX	2	M10	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	65	74,5	9,5	15/20/25/30/35/40/45/50/55/60	20
K0122.308ΔX	3	M8	16	21	22	37	10	24	54,5	58,5	80	91	11	15/20/25/30/35/40/45/50/55/60	22
K0122.310ΔX	3	M10	16	21	22	37	10	24	54,5	58,5	80	91	11	15/20/25/30/35/40/45/50/55/60	22
K0122.410ΔX	4	M10	19	27	27,5	43	10	27	63	67,5	95	109	13	20/25/30/35/40/45/50/55/60/70/80/90	24
K0122.412ΔX	4	M12	19	27	27,5	43	10	27	63	67,5	95	109	13	20/25/30/35/40/45/50/55/60/70/80/90	24
K0122.512ΔX	5	M12	23	31	32	49	12	31,5	73	77,5	110	126	15	25/30/35/40/45/50/55/60/70/80/90	26
K0122.516ΔX	5	M16	23	31	32	49	12	31,5	73	77,5	110	126	15	25/30/35/40/45/50/55/60/70/80/90	26

Clamping levers

internal thread, steel parts stainless steel





Material:
Handle die-cast zinc DIN EN 12844.
Steel parts stainless steel 1.4305.

Version:
Handle plastic-coated or high-gloss chromed.
Steel parts bright.

Sample order:
K0123.1051 (clamping lever, black satin finish)

Note:
Δ Add the desired lever colour here.
Standard colours are:
black satin finish, orange RAL 2004, ruby red RAL 3003, silver metallic, high gloss chromed.
Where L ≥ 60 mm the thread length is 60 mm.

On request:
Other internal threads, colours and special versions.
Dimension “H1” available in other lengths at extra charge.



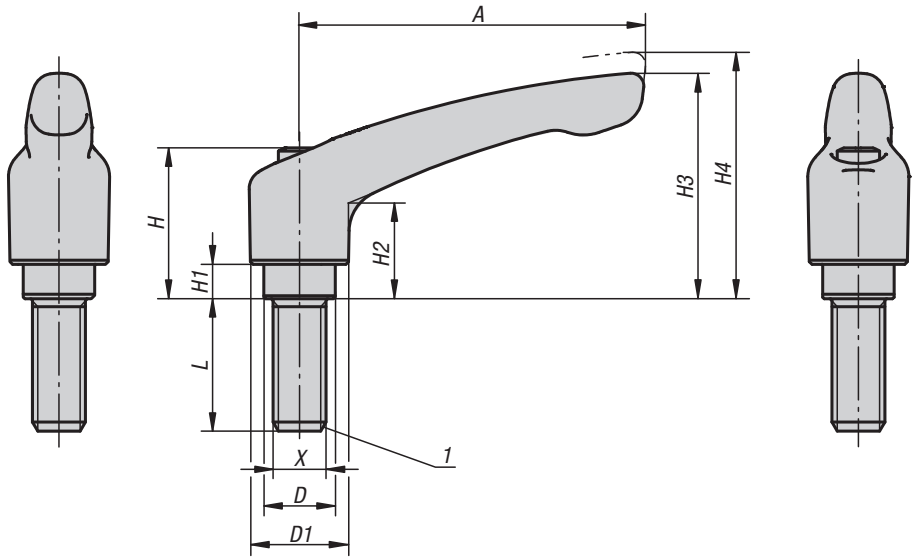
black satin finish Δ = 1	orange Δ = 2	ruby red Δ = 27	silver metallic Δ = 3	high-gloss chromed Δ = 6
	 RAL 2004	 RAL 3003		

KIPP Clamping levers with internal thread, steel parts stainless steel

Order No.	Size	X	T	D	D1	D2	H	H1	H2	H3	H4	A	A1	B	No. of teeth
K0123.003Δ	0	M3	9	10	13	14	24,5	4	14,5	30	33	30	37	7	16
K0123.004Δ	0	M4	9	10	13	14	24,5	4	14,5	30	33	30	37	7	16
K0123.005Δ	0	M5	9	10	13	14	24,5	4	14,5	30	33	30	37	7	16
K0123.104Δ	1	M4	9	10	13	14	24,5	4	14,5	31	34	40	47	7	16
K0123.105Δ	1	M5	9	10	13	14	24,5	4	14,5	31	34	40	47	7	16
K0123.106Δ	1	M6	9	10	13	14	24,5	4	14,5	31	34	40	47	7	16
K0123.206Δ	2	M6	12	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	65	74,5	9,5	20
K0123.208Δ	2	M8	12	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	65	74,5	9,5	20
K0123.308Δ	3	M8	14	16	21	22	37	10	24	54,5	58,5	80	91	11	22
K0123.310Δ	3	M10	14	16	21	22	37	10	24	54,5	58,5	80	91	11	22
K0123.410Δ	4	M10	17	19	27	27,5	43	10	27	63	67,5	95	109	13	24
K0123.412Δ	4	M12	17	19	27	27,5	43	10	27	63	67,5	95	109	13	24
K0123.512Δ	5	M12	23	23	31	32	49	12	31,5	73	77,5	110	126	15	26
K0123.516Δ	5	M16	23	23	31	32	49	12	31,5	73	77,5	110	126	15	26

Clamping levers

external thread, steel parts stainless steel





Material:
Handle die-cast zinc DIN EN 12844.
Steel parts stainless steel 1.4305.

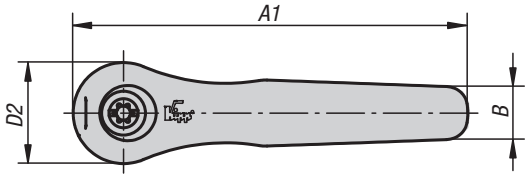
Version:
Handle plastic-coated or high-gloss chromed.
Steel parts bright.

Sample order:
K0123.1051X25 (clamping lever, black satin finish; include length L)

Note:
Δ Add the desired lever colour here.
Standard colours are:
black satin finish, orange RAL 2004, ruby red RAL 3003, silver metallic, high gloss chromed.
Where L ≥ 60 mm the thread length is 60 mm.

On request:
Other external threads, screw lengths, colours and special versions.
Dimension “H1” available in other lengths at extra charge.

Drawing reference:
1) flat point DIN 78





black satin finish Δ = 1	orange Δ = 2	ruby red Δ = 27	silver metallic Δ = 3	high-gloss chromed Δ = 6
	 RAL 2004	 RAL 3003		

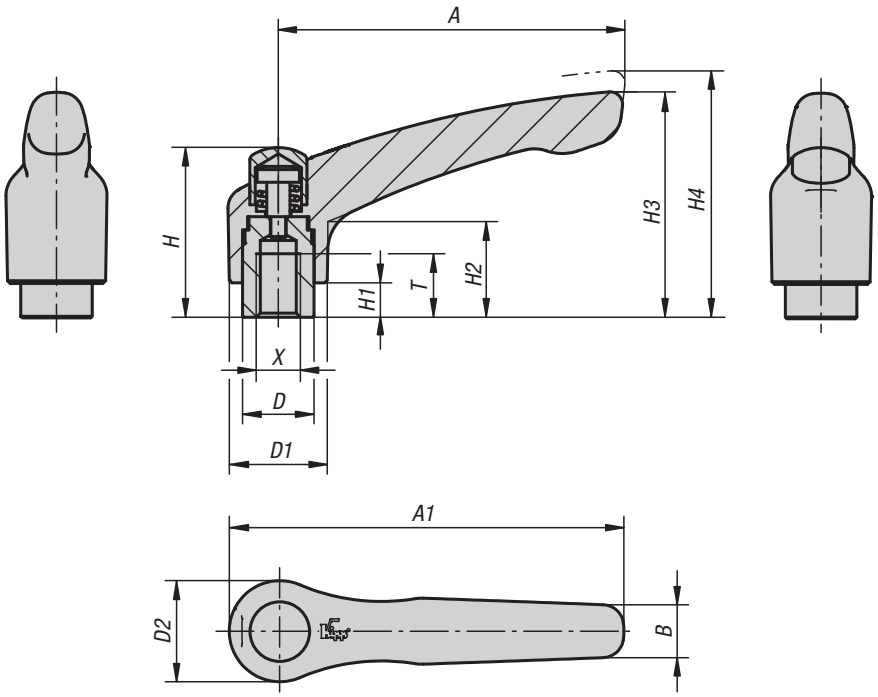
KIPP Clamping levers with external thread, steel parts stainless steel

Order No.	Size	X	D	D1	D2	H	H1	H2	H3	H4	A	A1	B	L	No. of teeth
K0123.004ΔX	0	M4	10	13	14	24,5	4	14,5	30	33	30	37	7	10/15/20/25	16
K0123.005ΔX	0	M5	10	13	14	24,5	4	14,5	30	33	30	37	7	10/15/20/25	16
K0123.105ΔX	1	M5	10	13	14	24,5	4	14,5	31	34	40	47	7	10/15/20/25	16
K0123.106ΔX	1	M6	10	13	14	24,5	4	14,5	31	34	40	47	7	10/15/20/25/30/40/50	16
K0123.206ΔX	2	M6	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	65	74,5	9,5	15/20/25/30/40/50/60	20
K0123.208ΔX	2	M8	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	65	74,5	9,5	15/20/25/30/40/50/60	20
K0123.210ΔX	2	M10	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	65	74,5	9,5	20/25/30/40/50/60	20
K0123.308ΔX	3	M8	16	21	22	37	10	24	54,5	58,5	80	91	11	20/25/30/40/50/60	22
K0123.310ΔX	3	M10	16	21	22	37	10	24	54,5	58,5	80	91	11	20/25/30/40/50/60	22
K0123.412ΔX	4	M12	19	27	27,5	43	10	27	63	67,5	95	109	13	25/30/40/50/60	24
K0123.516ΔX	5	M16	23	31	32	49	12	31,5	73	77,5	110	126	15	30/40/50/60	26

Clamping levers with protective cap

internal thread





Material:
Handle die-cast zinc DIN EN 12844.
Steel parts grade 5.8.
Protective cap stainless steel 1.4305.

Version:
Handle plastic-coated.
Steel parts black oxidised.
Protective cap stainless steel, bright.

Sample order:
K0122.92081

Note:
Standard colours are:
black satin finish, orange RAL 2004.

On request:
Other internal threads, colours and special versions.
Dimension “H1” available in other lengths at extra charge.



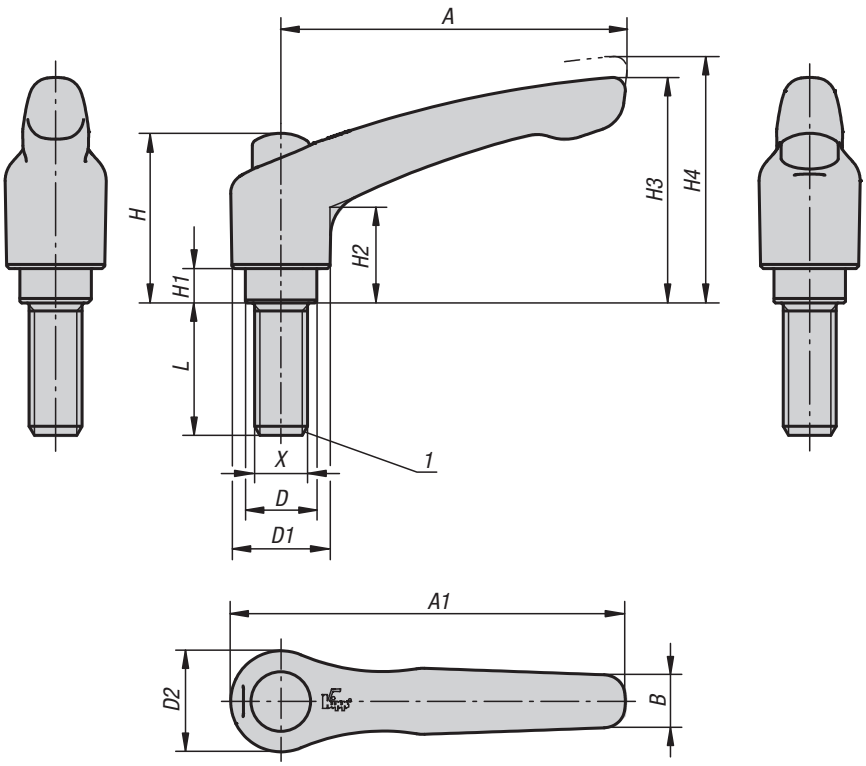
KIPP Clamping levers with protective cap, internal thread

Order No. Black satin finish	Order No. Pure orange RAL 2004	Size	X	T	D	D1	D2	H	H1	H2	H3	H4	A	A1	B	No. of teeth
K0122.92061	**K0122.92062**	2	M6	12	13,5	18,5	19	32	6,5	17,5	42,5	45,5	65	74,5	9,5	20
K0122.92081	**K0122.92082**	2	M8	12	13,5	18,5	19	32	6,5	17,5	42,5	45,5	65	74,5	9,5	20
K0122.93081	**K0122.93082**	3	M8	14	16	21	22	41,5	10	24	54,5	58,5	80	91	11	22
K0122.93101	**K0122.93102**	3	M10	14	16	21	22	41,5	10	24	54,5	58,5	80	91	11	22

Clamping levers with protective cap

external thread





Material:
Handle die-cast zinc DIN EN 12844.
Steel parts grade 5.8.
Protective cap stainless steel 1.4305.

Version:
Handle plastic-coated.
Steel parts black oxidised.
Protective cap stainless steel, bright.

Sample order:
K0122.92081X30 (include length L)

Note:
Standard colours are:
black satin finish, orange RAL 2004.
Where L is ≥ 60 mm the thread length is 60 mm.

On request:
Other external threads, screw lengths, colours and special versions.
Dimension “H1” available in other lengths at extra charge.

Drawing reference:
1) flat point DIN 78

lift to disengage



KIPP Specifications

Size	X	D	D1	D2	H	H1	H2	H3	H4	A	A1	B	No. of teeth
2	M6/M8/M10	13,5	18,5	19	32	6,5	17,5	42,5	45,5	65	74,5	9,5	20
3	M8/M10	16	21	22	41,5	10	24	54,5	58,5	80	91	11	22

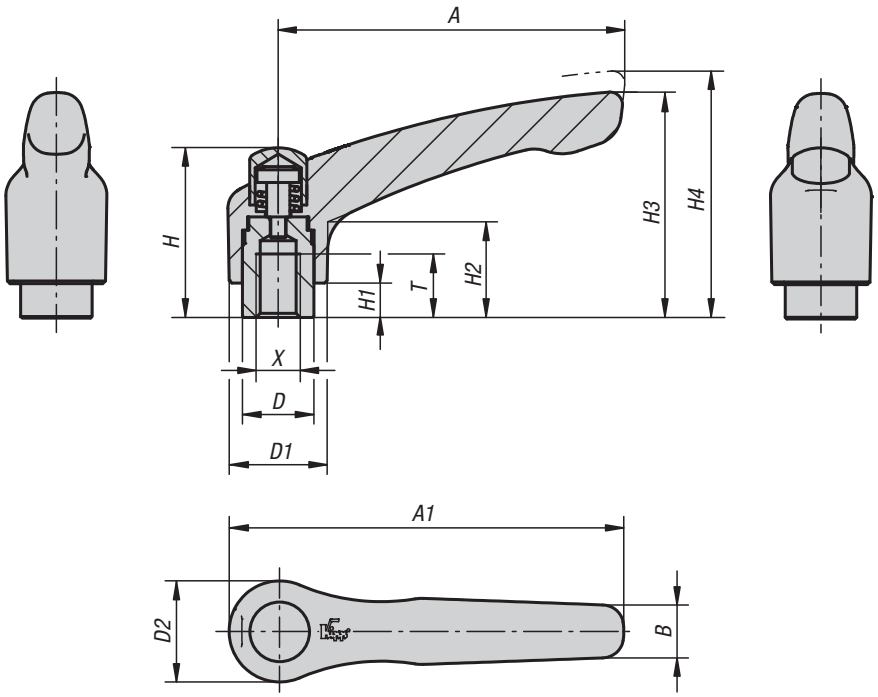
KIPP Clamping levers with protective cap, external thread

Order No. Black satin finish	Order No. Pure orange RAL 2004	Size	X	L
K0122.92061X	**K0122.92062X**	2	M6	15/20/25/30/35/40/45/50/55/60
K0122.92081X	**K0122.92082X**	2	M8	15/20/25/30/35/40/45/50/55/60
K0122.92101X	**K0122.92102X**	2	M10	15/20/25/30/35/40/45/50/55/60
K0122.93081X	**K0122.93082X**	3	M8	15/20/25/30/35/40/45/50/55/60
K0122.93101X	**K0122.93102X**	3	M10	15/20/25/30/35/40/45/50/55/60

Clamping levers with protective cap

internal thread, steel parts stainless steel





Material:
Handle die-cast zinc DIN EN 12844.
Steel parts stainless steel 1.4305.
Protective cap stainless steel 1.4305.

Version:
Handle plastic-coated.
Steel parts bright.

Sample order:
K0123.92081

Note:
Standard colours are:
black satin finish, orange RAL 2004.

On request:
Other internal threads, colours and special versions.
Dimension “H1” available in other lengths at extra charge.



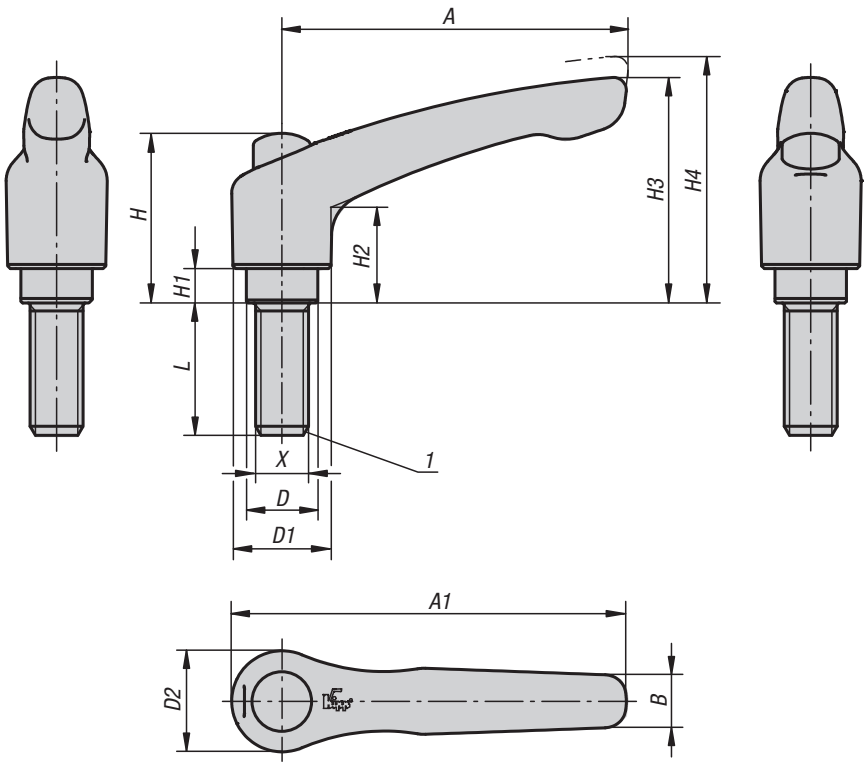
KIPP Clamping levers with protective cap, internal thread, steel parts stainless steel

Order No. Black satin finish	Order No. Pure orange RAL 2004	Size	X	T	D	D1	D2	H	H1	H2	H3	H4	A	A1	B	No. of teeth
K0123.92061	K0123.92062	2	M6	12	13,5	18,5	19	32	6,5	17,5	42,5	45,5	65	74,5	9,5	20
K0123.92081	K0123.92082	2	M8	12	13,5	18,5	19	32	6,5	17,5	42,5	45,5	65	74,5	9,5	20
K0123.93081	K0123.93082	3	M8	14	16	21	22	41,5	10	24	54,5	58,5	80	91	11	22
K0123.93101	K0123.93102	3	M10	14	16	21	22	41,5	10	24	54,5	58,5	80	91	11	22

Clamping levers with protective cap

external thread, steel parts stainless steel





Material:
Handle die-cast zinc DIN EN 12844.
Steel parts stainless steel 1.4305.
Protective cap stainless steel 1.4305.

Version:
Handle plastic-coated.
Steel parts bright.

Sample order:
K0123.92081X30 (include length L)

Note:
Standard colours are:
black satin finish, orange RAL 2004.

On request:
Other external threads, screw lengths, colours and special versions.
Dimension “H1” available in other lengths at extra charge.

Drawing reference:
1) flat point DIN 78

lift to disengage



KIPP Specifications

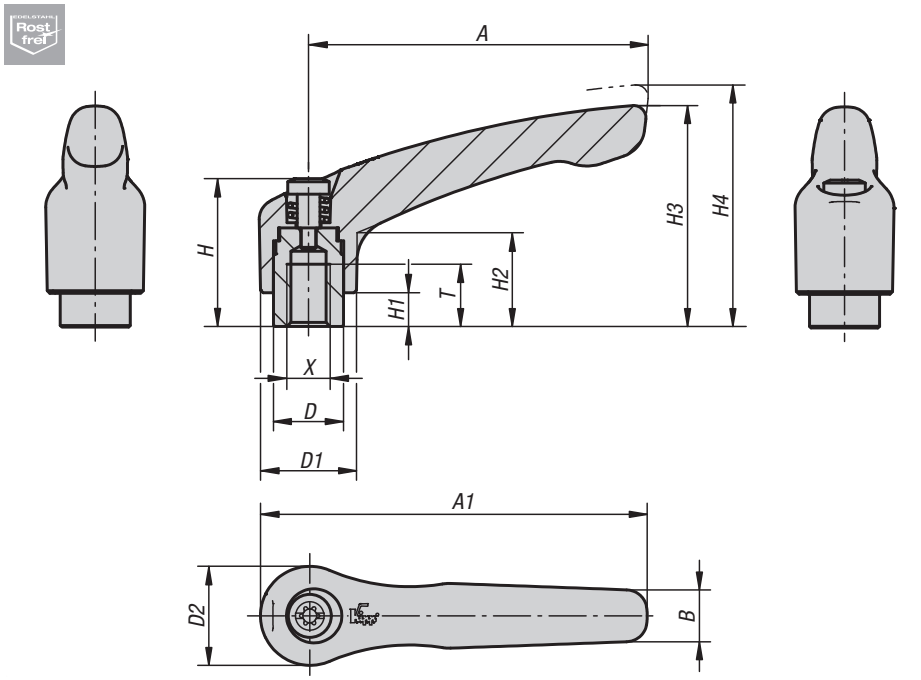
Size	X	D	D1	D2	H	H1	H2	H3	H4	A	A1	B	No. of teeth
2	M6/M8/M10	13,5	18,5	19	32	6,5	17,5	42,5	45,5	65	74,5	9,5	20
3	M8/M10	16	21	22	41,5	10	24	54,5	58,5	80	91	11	22

KIPP Clamping levers with protective cap, external thread, steel parts stainless steel

Order No. Black satin finish	Order No. Pure orange RAL 2004	Size	X	L
K0123.92061X	**K0123.92062X**	2	M6	15/20/25/30/40/50/60
K0123.92081X	**K0123.92082X**	2	M8	15/20/25/30/40/50/60
K0123.92101X	**K0123.92102X**	2	M10	20/25/30/40/50/60
K0123.93081X	**K0123.93082X**	3	M8	20/25/30/40/50/60
K0123.93101X	**K0123.93102X**	3	M10	20/25/30/40/50/60

Clamping levers

internal thread, stainless steel





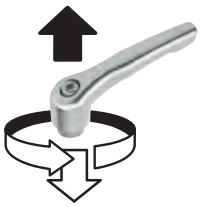
Material:
Handle investment cast 1.4308.
Other steel parts 1.4305.

Version:
Handle electropolished or blasted.
Metal parts bright.

Sample order:
K0124.105

On request:
Other internal threads and special versions.
Dimension “H1” available in other lengths at extra charge.

lift to disengage

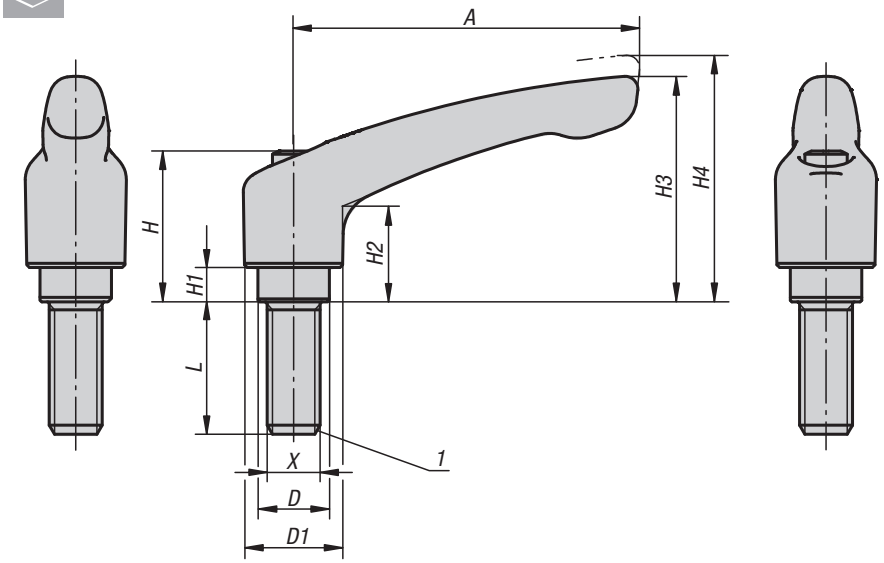


KIPP Clamping levers with internal thread, stainless steel

Order No.	Version	Size	X	T	D	D1	D2	H	H1	H2	H3	H4	A	A1	B	No. of teeth
K0124.104	polished	1	M4	9	10	13	14	24,5	4	14,5	31	34	40	47	7	16
K0124.105	polished	1	M5	9	10	13	14	24,5	4	14,5	31	34	40	47	7	16
K0124.106	polished	1	M6	9	10	13	14	24,5	4	14,5	31	34	40	47	7	16
K0124.206	polished	2	M6	12	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	65	74,5	10	20
K0124.208	polished	2	M8	12	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	65	74,5	10	20
K0124.308	polished	3	M8	14	16	21	22	37	10	24	54,5	58,5	80	91	11	22
K0124.310	polished	3	M10	14	16	21	22	37	10	24	54,5	58,5	80	91	11	22
K0124.410	polished	4	M10	17	19	27	27,5	43	10	27	63	67,5	95	109	13	24
K0124.412	polished	4	M12	17	19	27	27,5	43	10	27	63	67,5	95	109	13	24
K0124.512	polished	5	M12	23	23	31	32	49	12	31,5	73	77,5	110	126	15	26
K0124.516	polished	5	M16	23	23	31	32	49	12	31,5	73	77,5	110	126	15	26
K0124.104153	blasted	1	M4	9	10	13	14	24,5	4	14,5	31	34	40	47	7	16
K0124.105153	blasted	1	M5	9	10	13	14	24,5	4	14,5	31	34	40	47	7	16
K0124.106153	blasted	1	M6	9	10	13	14	24,5	4	14,5	31	34	40	47	7	16
K0124.206153	blasted	2	M6	12	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	65	74,5	10	20
K0124.208153	blasted	2	M8	12	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	65	74,5	10	20
K0124.308153	blasted	3	M8	14	16	21	22	37	10	24	54,5	58,5	80	91	11	22
K0124.310153	blasted	3	M10	14	16	21	22	37	10	24	54,5	58,5	80	91	11	22
K0124.410153	blasted	4	M10	17	19	27	27,5	43	10	27	63	67,5	95	109	13	24
K0124.412153	blasted	4	M12	17	19	27	27,5	43	10	27	63	67,5	95	109	13	24
K0124.512153	blasted	5	M12	23	23	31	32	49	12	31,5	73	77,5	110	126	15	26
K0124.516153	blasted	5	M16	23	23	31	32	49	12	31,5	73	77,5	110	126	15	26

Clamping levers

external thread, stainless steel





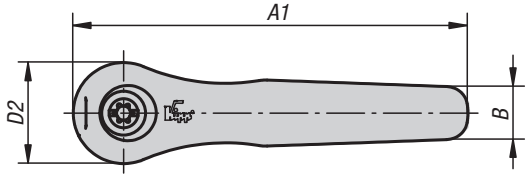
Material:
Handle investment cast 1.4308.
Other steel parts 1.4305.

Version:
Handle electropolished or blasted.
Metal parts bright.

Sample order:
K0124.105X10 (include length L)

On request:
Other external threads, screw lengths and special versions.
Dimension “H1” available in other lengths at extra charge.

Drawing reference:
1) flat point DIN 78



lift to disengage



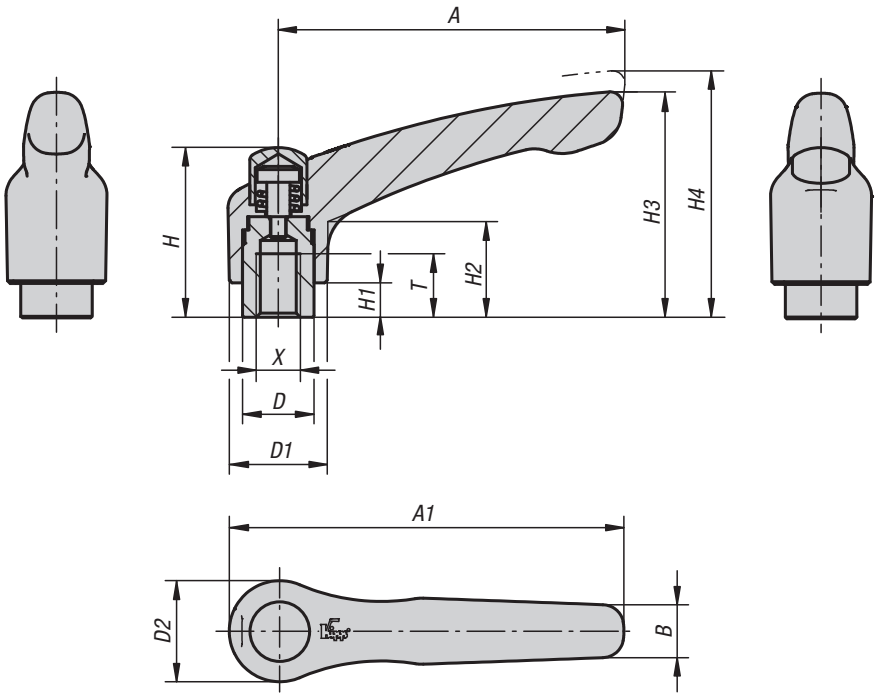
KIPP Clamping levers with external thread, stainless steel

Order No.	Version	Size	X	D	D1	D2	H	H1	H2	H3	H4	A	A1	B	No. of teeth	L
K0124.105X	polished	1	M5	10	13	14	24,5	4	14,5	31	34	40	47	7	16	10/15/20/25
K0124.106X	polished	1	M6	10	13	14	24,5	4	14,5	31	34	40	47	7	16	10/15/20/25/30/40/50
K0124.206X	polished	2	M6	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	65	74,5	10	20	15/20/25/30/40/50/60
K0124.208X	polished	2	M8	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	65	74,5	10	20	15/20/25/30/40/50/60
K0124.210X	polished	2	M10	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	65	74,5	10	20	20/25/30/40/50/60
K0124.308X	polished	3	M8	16	21	22	37	10	24	54,5	58,5	80	91	11	22	20/25/30/40/50/60
K0124.310X	polished	3	M10	16	21	22	37	10	24	54,5	58,5	80	91	11	22	20/25/30/40/50/60
K0124.412X	polished	4	M12	19	27	27,5	43	10	27	63	67,5	95	109	13	24	25/30/40/50/60
K0124.516X	polished	5	M16	23	31	32	49	12	31,5	73	77,5	110	126	15	26	30/40/50/60
K0124.105153X	blasted	1	M5	10	13	14	24,5	4	14,5	31	34	40	47	7	16	10/15/20/25
K0124.106153X	blasted	1	M6	10	13	14	24,5	4	14,5	31	34	40	47	7	16	10/15/20/25/30/40/50
K0124.206153X	blasted	2	M6	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	65	74,5	10	20	15/20/25/30/40/50/60
K0124.208153X	blasted	2	M8	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	65	74,5	10	20	15/20/25/30/40/50/60
K0124.210153X	blasted	2	M10	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	65	74,5	10	20	20/25/30/40/50/60
K0124.308153X	blasted	3	M8	16	21	22	37	10	24	54,5	58,5	80	91	11	22	20/25/30/40/50/60
K0124.310153X	blasted	3	M10	16	21	22	37	10	24	54,5	58,5	80	91	11	22	20/25/30/40/50/60
K0124.412153X	blasted	4	M12	19	27	27,5	43	10	27	63	67,5	95	109	13	24	25/30/40/50/60
K0124.516153X	blasted	5	M16	23	31	32	49	12	31,5	73	77,5	110	126	15	26	30/40/50/60

Clamping levers with protective cap

internal thread, stainless steel





Material:
Handle investment cast 1.4308.
Other steel parts 1.4305.

Version:
Handle electrolytic polished.
Steel parts bright.

Sample order:
K0124.9208

On request:
Other internal threads and special versions.
Dimension “H1” available in other lengths at extra charge.



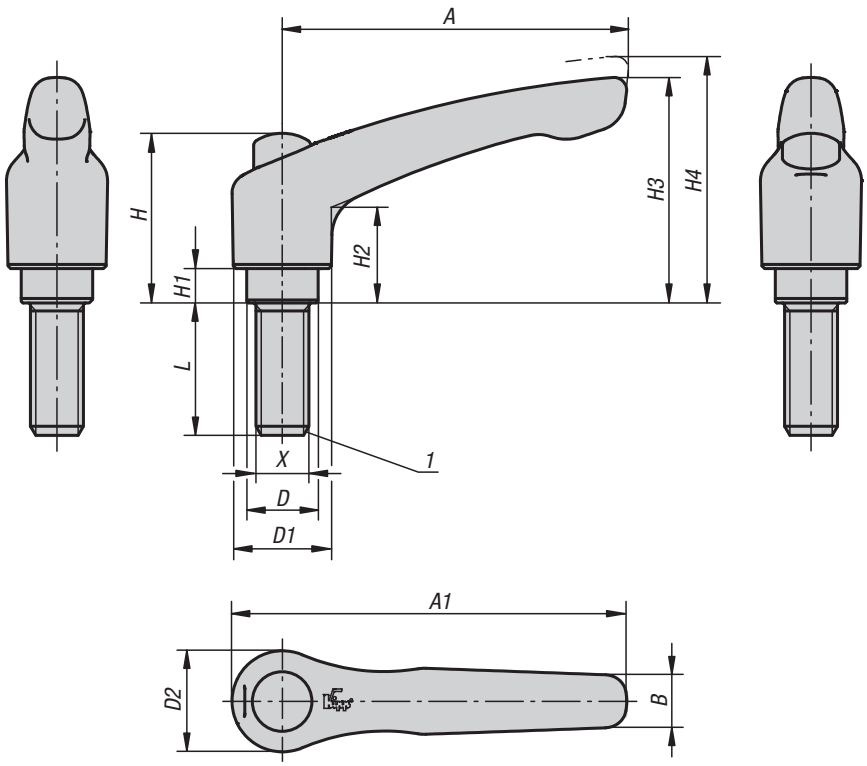
KIPP Clamping levers with protective cap, internal thread, stainless steel

Order No.	Size	X	T	D	D1	D2	H	H1	H2	H3	H4	A	A1	B	No. of teeth
K0124.9206	2	M6	12	13,5	18,5	19	32	6,5	17,5	42,5	45,5	65	74,5	10	20
K0124.9208	2	M8	12	13,5	18,5	19	32	6,5	17,5	42,5	45,5	65	74,5	10	20
K0124.9308	3	M8	14	16	21	22	41,5	10	24	54,5	58,5	80	91	11	22
K0124.9310	3	M10	14	16	21	22	41,5	10	24	54,5	58,5	80	91	11	22

Clamping levers with protective cap

external thread, stainless steel





Material:
Handle investment cast 1.4308.
Other steel parts 1.4305.

Version:
Handle electrolytic polished.
Steel parts bright.

Sample order:
K0124.9208X30 (include length L)

On request:
Other external threads, screw lengths and special versions.
Dimension “H1” available in other lengths at extra charge.

Drawing reference:
1) flat point DIN 78

lift to disengage



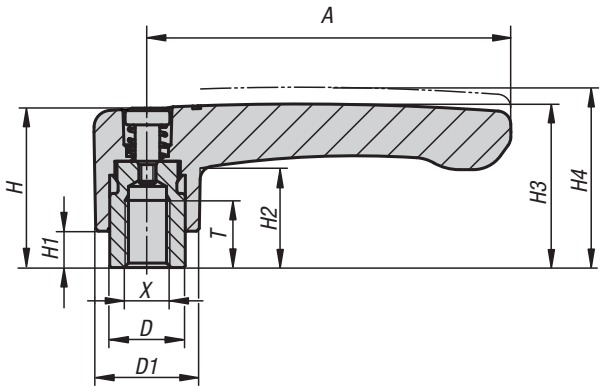
KIPP Clamping levers with protective cap, external thread, stainless steel

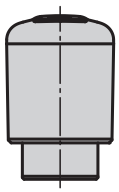
Order No.	Size	X	D	D1	D2	H	H1	H2	H3	H4	A	A1	B	No. of teeth	L
K0124.9206X	2	M6	13,5	18,5	19	32	6,5	17,5	42,5	45,5	65	74,5	10	20	15/20/25/30/40/50/60
K0124.9208X	2	M8	13,5	18,5	19	32	6,5	17,5	42,5	45,5	65	74,5	10	20	15/20/25/30/40/50/60
K0124.9210X	2	M10	13,5	18,5	19	32	6,5	17,5	42,5	45,5	65	74,5	10	20	20/25/30/40/50/60
K0124.9308X	3	M8	16	21	22	41,5	10	24	54,5	58,5	80	91	11	22	20/25/30/40/50/60
K0124.9310X	3	M10	16	21	22	41,5	10	24	54,5	58,5	80	91	11	22	20/25/30/40/50/60

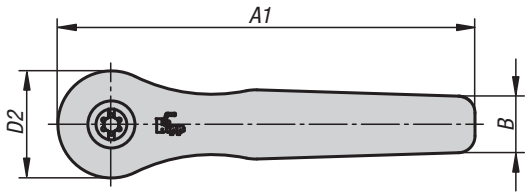
Clamping levers flat

internal thread









Material:
Handle die-cast zinc DIN EN 12844.
Steel parts grade 5.8.

Version:
Handle plastic coated.
Steel parts black oxidised.

Sample order:
K0737.2061

Note:
Standard colours are:
black satin finish, orange RAL 2004.

On request:
Other internal threads, colours and special versions.
Dimension “H1” available in other lengths at extra charge.



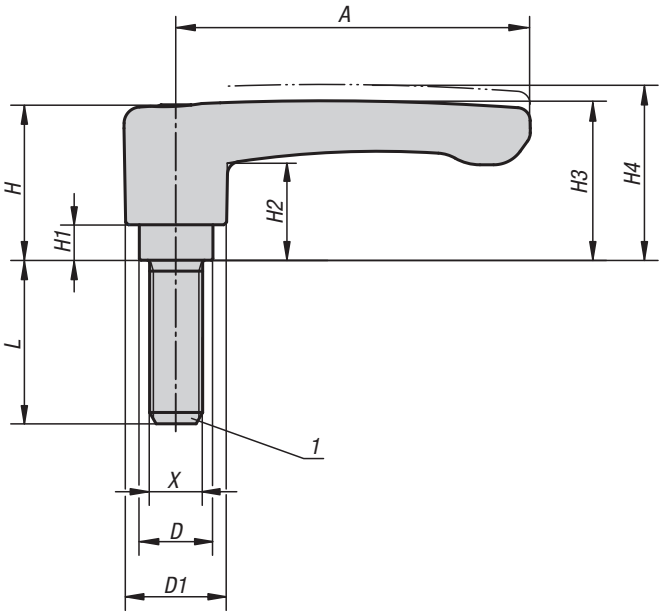
KIPP Clamping levers flat with internal thread

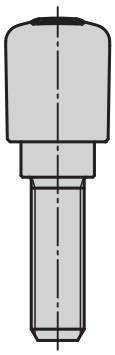
Order No. Black satin finish	Order No. Pure orange RAL 2004	Size	X	T	D	D2	D2	H	H1	H2	H3	H4	A	A1	B	No. of teeth
K0737.2061	**K0737.2062**	2	M6	12	13,5	18,5	19,1	28,5	6,5	17,8	29,2	32,2	65	74,5	10,1	20
K0737.2081	**K0737.2082**	2	M8	12	13,5	18,5	19,1	28,5	6,5	17,8	29,2	32,2	65	74,5	10,1	20
K0737.3081	**K0737.3082**	3	M8	14	16	21,2	22	37	10	23,8	38	42	80	91	11,7	22
K0737.3101	**K0737.3102**	3	M10	14	16	21,2	22	37	10	23,8	38	42	80	91	11,7	22

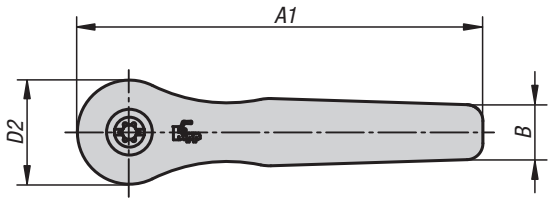
Clamping levers flat

external thread









Material:
Handle die-cast zinc DIN EN 12844.
Steel parts grade 5.8.

Version:
Handle plastic coated.
Steel parts black oxidised.

Sample order:
K0737.2061X15 (include length L)

Note:
Standard colours are:
black satin finish, orange RAL 2004.

On request:
Other external threads, screw lengths, colours and special versions.
Dimension “H1” available in other lengths at extra charge.

Drawing reference:
1) flat point DIN 78

lift to disengage



KIPP Specifications

Size	X	D	D1	D2	H	H1	H2	H3	H4	A	A1	B	No. of teeth
2	M6/M8/M10	13,5	18,5	19,1	28,5	6,5	17,8	29,2	32,2	65	74,5	10,1	20
3	M8/M10	16	21,2	22	37	10	23,8	38	42	80	91	11,7	22

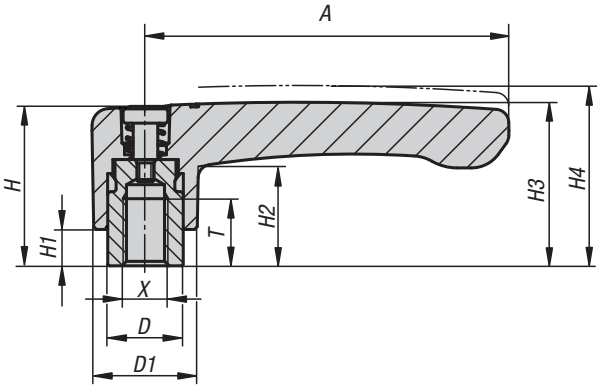
KIPP Clamping levers flat with external thread

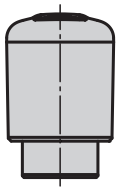
Order No. Black satin finish	Order No. Pure orange RAL 2004	Size	X	L
K0737.2061X	**K0737.2062X**	2	M6	15/20/25/30/35/40/45/50/55/60
K0737.2081X	**K0737.2082X**	2	M8	15/20/25/30/35/40/45/50/55/60
K0737.2101X	**K0737.2102X**	2	M10	15/20/25/30/35/40/45/50/55/60
K0737.3081X	**K0737.3082X**	3	M8	15/20/25/30/35/40/45/50/55/60
K0737.3101X	**K0737.3102X**	3	M10	15/20/25/30/35/40/45/50/55/60

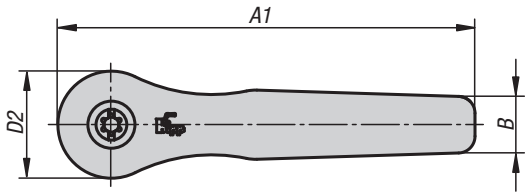
Clamping levers flat

internal thread, steel parts stainless steel









Material:
Handle die-cast zinc DIN EN 12844.
Steel parts stainless steel 1.4305.

Version:
Handle plastic-coated.
Steel parts bright.

Sample order:
K0738.2061

Note:
Standard colours are:
black satin finish, orange RAL 2004.

On request:
Other internal threads, colours and special versions.
Dimension “H1” available in other lengths at extra charge.

lift to disengage



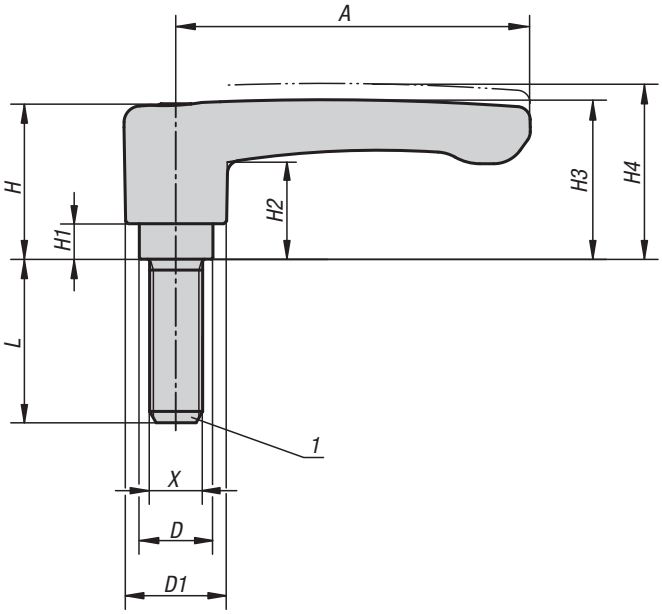
KIPP Clamping levers flat with internal thread, stainless steel

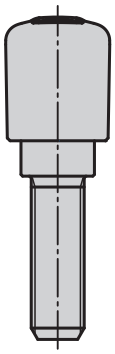
Order No. Black satin finish	Order No. Pure orange RAL 2004	Size	X	T	D	D1	D2	H	H1	H2	H3	H4	A	A1	B	No. of teeth
K0738.2061	**K0738.2062**	2	M6	12	13,5	18,5	19,1	28,5	6,5	17,8	29,2	32,2	65	74,5	10,1	20
K0738.2081	**K0738.2082**	2	M8	12	13,5	18,5	19,1	28,5	6,5	17,8	29,2	32,2	65	74,5	10,1	20
K0738.3081	**K0738.3082**	3	M8	14	16	21,2	22	37	10	23,8	38	42	80	91	11,7	22
K0738.3101	**K0738.3102**	3	M10	14	16	21,2	22	37	10	23,8	38	42	80	91	11,7	22

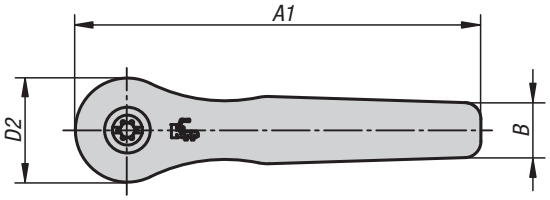
Clamping levers flat

external thread, steel parts stainless steel









Material:
Handle die-cast zinc DIN EN 12844.
Steel parts stainless steel 1.4305.

Version:
Handle plastic-coated.
Steel parts bright.

Sample order:
K0738.2061X15 (include length L)

Note:
Standard colours are:
black satin finish, orange RAL 2004.

On request:
Other external threads, screw lengths, colours and special versions.
Dimension “H1” available in other lengths at extra charge.

Drawing reference:
1) flat point DIN 78

lift to disengage



KIPP Specifications

Size	X	D	D1	D2	H	H1	H2	H3	H4	A	A1	B	No. of teeth
2	M6/M8/M10	13,5	18,5	19,1	28,5	6,5	17,8	29,2	32,2	65	74,5	10,1	20
3	M8/M10	16	21,2	22	37	10	23,8	38	42	80	91	11,7	22

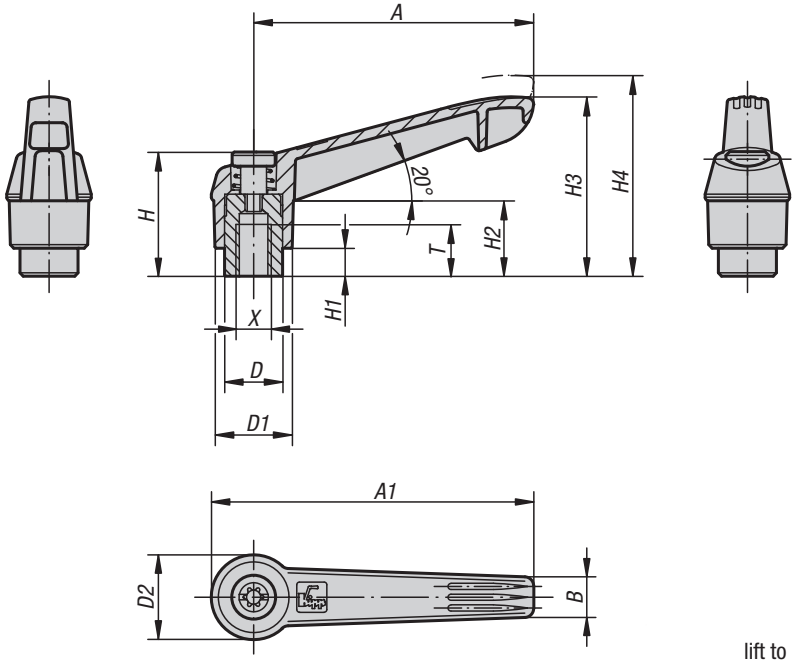
KIPP Clamping levers flat with external thread, stainless steel

Order No. Black satin finish	Order No. Pure orange RAL 2004	Size	X	L
K0738.2061X	**K0738.2062X**	2	M6	15/20/25/30/40/50/60
K0738.2081X	**K0738.2082X**	2	M8	15/20/25/30/40/50/60
K0738.2101X	**K0738.2102X**	2	M10	20/25/30/40/50/60
K0738.3081X	**K0738.3082X**	3	M8	20/25/30/40/50/60
K0738.3101X	**K0738.3102X**	3	M10	20/25/30/40/50/60

Clamping levers with plastic handle

internal thread





For many people the NOVO grip clamping lever represents the key to secure and comfortable gripping. This lever provides a future-oriented and powerful solution for almost any operating and clamping problem.

Material:
Handle fibreglass reinforced plastic with die-cast zinc toothed ring.
Steel parts grade 5.8.

Version:
Steel parts black oxidised.

Sample order:
K0269.10486 (lever colour signal green)

Note:
Δ Add the desired lever colour here.

On request:
Other internal threads and special versions.
Dimension “H1” available in other lengths at extra charge.

lift to disengage



black grey Δ = 1	orange Δ = 2	signal green Δ = 86	traffic red Δ = 84	rape yellow Δ = 16	traffic blue Δ = 87
 RAL 7021	 RAL 2004	 RAL 6032	 RAL 3020	 RAL 1021	 RAL 5017

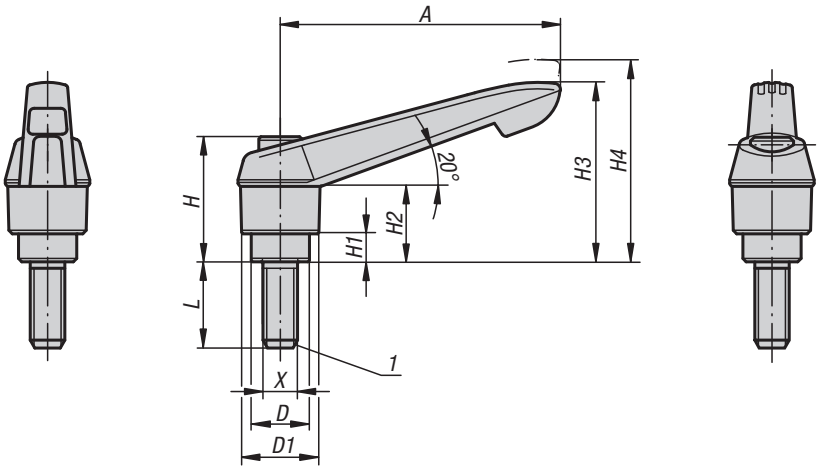
KIPP Clamping levers with plastic handle, internal thread

Order No.	Size	X	T	D	D1	D2	H	H1	H2	H3	H4	A	A1	B	No. of teeth
K0269.104Δ	1	M4	9	10	13	14,5	24,5	4	15	30	33,5	40	47	7,5	16
K0269.105Δ	1	M5	9	10	13	14,5	24,5	4	15	30	33,5	40	47	7,5	16
K0269.106Δ	1	M6	9	10	13	14,5	24,5	4	15	30	33,5	40	47	7,5	16
K0269.206Δ	2	M6	12	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	65	75	9,5	20
K0269.208Δ	2	M8	12	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	65	75	9,5	20
K0269.308Δ	3	M8	14	16	21,5	23	37	10	24	53,5	58	80	91,5	11	22
K0269.310Δ	3	M10	14	16	21,5	23	37	10	24	53,5	58	80	91,5	11	22
K0269.410Δ	4	M10	17	19	25,5	27,5	43	10	26	61	66	95	109	13	24
K0269.412Δ	4	M12	17	19	25,5	27,5	43	10	26	61	66	95	109	13	24
K0269.512Δ	5	M12	23	23	30	32,5	49	12	33	72	77	110	126	15,5	26
K0269.516Δ	5	M16	23	23	30	32,5	49	12	33	72	77	110	126	15,5	26

Clamping levers with plastic handle

external thread





lift to disengage



For many people the NOVO grip clamping lever represents the key to secure and comfortable gripping. This lever provides a future-oriented and powerful solution for almost any operating and clamping problem.

Material:
Handle fibreglass reinforced plastic with die-cast zinc toothed ring.
Steel parts grade 5.8.

Version:
Steel parts black oxidised.

Sample order:
K0269.1051X40 (lever black grey; include length L)

Note:
Δ Add the desired lever colour here.

On request:
Other external threads, screw lengths and special versions.
Dimension “H1” available in other lengths at extra charge.

Drawing reference:
1) flat point DIN 78

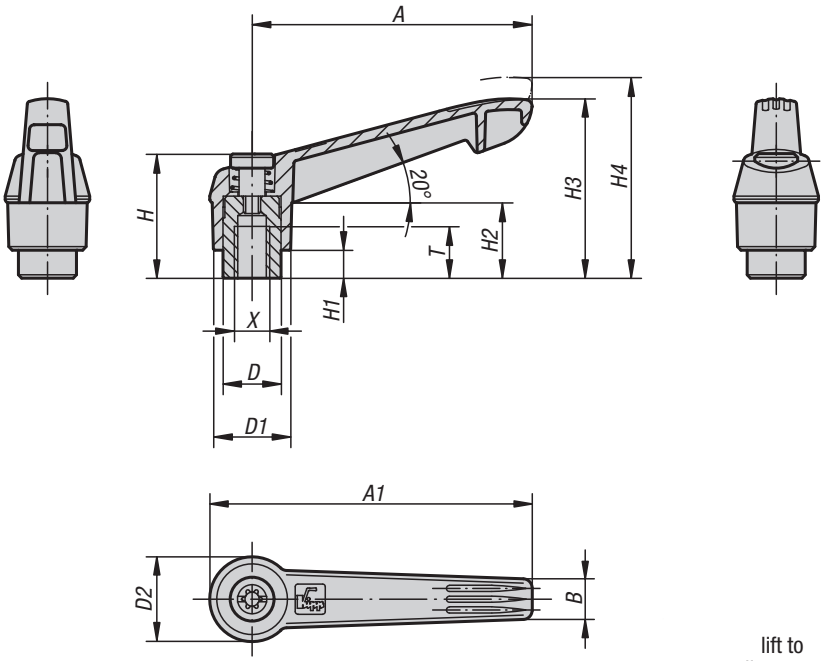
black grey Δ = 1	orange Δ = 2	signal green Δ = 86	traffic red Δ = 84	rape yellow Δ = 16	traffic blue Δ = 87
 RAL 7021	 RAL 2004	 RAL 6032	 RAL 3020	 RAL 1021	 RAL 5017

KIPP Clamping levers with plastic handle, external thread

Order No.	Size	X	D	D1	D2	H	H1	H2	H3	H4	A	A1	B	No. of teeth	L
K0269.105ΔX	1	M5	10	13	14,5	24,5	4	15	30	33,5	40	47	7,5	16	10/15/20/25/30/35/40/45/50
K0269.106ΔX	1	M6	10	13	14,5	24,5	4	15	30	33,5	40	47	7,5	16	10/15/20/25/30/35/40/45/50
K0269.206ΔX	2	M6	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	65	75	9,5	20	15/20/25/30/35/40/45/50/55/60
K0269.208ΔX	2	M8	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	65	75	9,5	20	15/20/25/30/35/40/45/50/55/60
K0269.210ΔX	2	M10	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	65	75	9,5	20	15/20/25/30/35/40/45/50/55/60
K0269.308ΔX	3	M8	16	21,5	23	37	10	24	53,5	58	80	91,5	11	22	15/20/25/30/35/40/45/50/55/60
K0269.310ΔX	3	M10	16	21,5	23	37	10	24	53,5	58	80	91,5	11	22	15/20/25/30/35/40/45/50/55/60
K0269.410ΔX	4	M10	19	25,5	27,5	43	10	26	61	66	95	109	13	24	20/25/30/35/40/45/50/55/60/70/80/90
K0269.412ΔX	4	M12	19	25,5	27,5	43	10	26	61	66	95	109	13	24	20/25/30/35/40/45/50/55/60/70/80/90
K0269.512ΔX	5	M12	23	30	32,5	49	12	33	72	77	110	126	15,5	26	25/30/35/40/45/50/55/60/70/80/90
K0269.516ΔX	5	M16	23	30	32,5	49	12	33	72	77	110	126	15,5	26	25/30/35/40/45/50/55/60/70/80/90

Clamping levers with plastic handle

internal thread, steel parts stainless steel





For many people the NOVO grip clamping lever represents the key to secure and comfortable gripping. This lever provides a future-oriented and powerful solution for almost any operating and clamping problem.

Material:
Handle fibreglass reinforced plastic with die-cast zinc toothed ring.
Steel parts stainless steel 1.4305.

Version:
Steel parts bright.

Sample order:
K0270.10486 (lever colour signal green)

Note:
Δ Add the desired lever colour here.

On request:
Other internal threads and special versions.
Dimension “H1” available in other lengths at extra charge.

lift to disengage



black grey Δ = 1	orange Δ = 2	signal green Δ = 86	traffic red Δ = 84	rape yellow Δ = 16	traffic blue Δ = 87
 RAL 7021	 RAL 2004	 RAL 6032	 RAL 3020	 RAL 1021	 RAL 5017

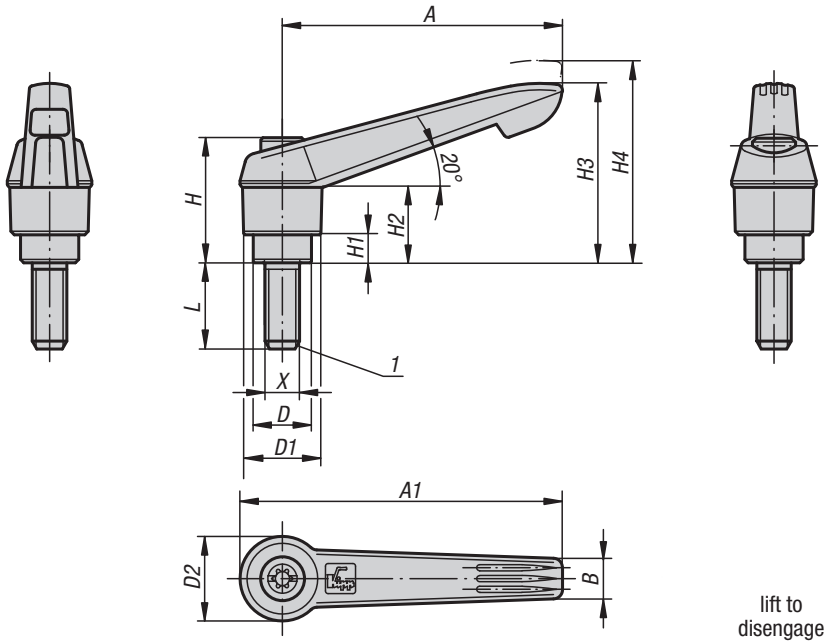
KIPP Clamping levers with plastic handle, internal thread, metal parts stainless steel

Order No.	Size	X	T	D	D1	D2	H	H1	H2	H3	H4	A	A1	B	No. of teeth
K0270.104Δ	1	M4	9	10	13	14,5	24,5	4	15	30	33,5	40	47	7,5	16
K0270.105Δ	1	M5	9	10	13	14,5	24,5	4	15	30	33,5	40	47	7,5	16
K0270.106Δ	1	M6	9	10	13	14,5	24,5	4	15	30	33,5	40	47	7,5	16
K0270.206Δ	2	M6	12	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	65	75	9,5	20
K0270.208Δ	2	M8	12	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	65	75	9,5	20
K0270.308Δ	3	M8	14	16	21,5	23	37	10	24	53,5	58	80	91,5	11	22
K0270.310Δ	3	M10	14	16	21,5	23	37	10	24	53,5	58	80	91,5	11	22
K0270.410Δ	4	M10	17	19	25,5	27,5	43	10	26	61	66	95	109	13	24
K0270.412Δ	4	M12	17	19	25,5	27,5	43	10	26	61	66	95	109	13	24
K0270.512Δ	5	M12	23	23	30	32,5	49	12	33	72	77	110	126	15,5	26
K0270.516Δ	5	M16	23	23	30	32,5	49	12	33	72	77	110	126	15,5	26

Clamping levers with plastic handle

external thread, steel parts stainless steel





lift to disengage



For many people the NOVO grip clamping lever represents the key to secure and comfortable gripping. This lever provides a future-oriented and powerful solution for almost any operating and clamping problem.

Material:
Handle fibreglass reinforced plastic with die-cast zinc toothed ring.
Steel parts stainless steel 1.4305.

Version:
Steel parts bright.

Sample order:
K0270.1051X20 (lever black grey; include length L)

Note:
Δ Add the desired lever colour here.

On request:
Other external threads, screw lengths and special versions.
Dimension “H1” available in other lengths at extra charge.

Drawing reference:
1) flat point DIN 78

black grey Δ = 1	orange Δ = 2	signal green Δ = 86	traffic red Δ = 84	rape yellow Δ = 16	traffic blue Δ = 87
 RAL 7021	 RAL 2004	 RAL 6032	 RAL 3020	 RAL 1021	 RAL 5017

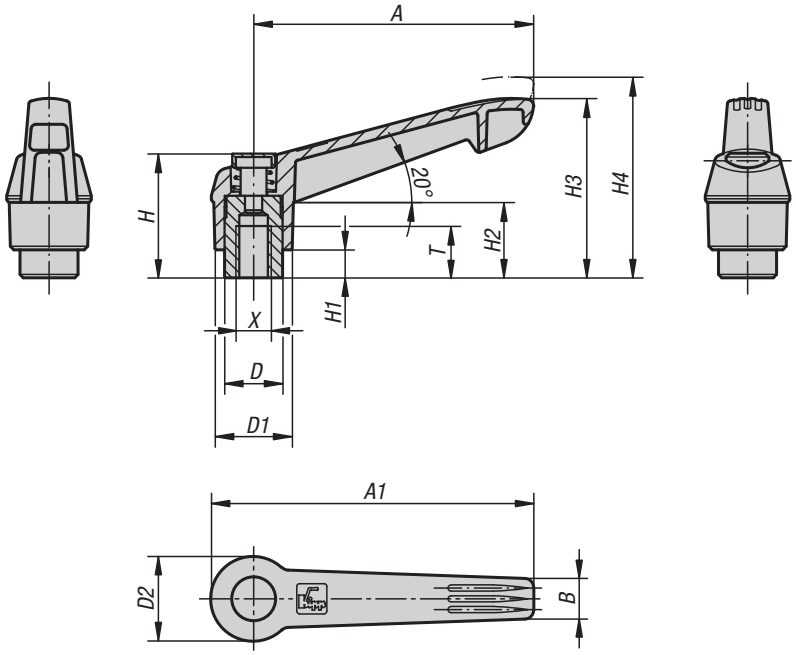
KIPP Clamping levers with plastic handle, external thread, metal parts stainless steel

Order No.	Size	X	D	D1	D2	H	H1	H2	H3	H4	A	A1	B	No. of teeth	L
K0270.105ΔX	1	M5	10	13	14,5	24,5	4	15	30	33,5	40	47	7,5	16	10/15/20/25
K0270.106ΔX	1	M6	10	13	14,5	24,5	4	15	30	33,5	40	47	7,5	16	10/15/20/25/30/40/50
K0270.206ΔX	2	M6	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	65	75	9,5	20	15/20/25/30/40/50/60
K0270.208ΔX	2	M8	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	65	75	9,5	20	15/20/25/30/40/50/60
K0270.210ΔX	2	M10	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	65	75	9,5	20	20/25/30/40/50/60
K0270.308ΔX	3	M8	16	21,5	23	37	10	24	53,5	58	80	91,5	11	22	20/25/30/40/50/60
K0270.310ΔX	3	M10	16	21,5	23	37	10	24	53,5	58	80	91,5	11	22	20/25/30/40/50/60
K0270.412ΔX	4	M12	19	25,5	27,5	43	10	26	61	66	95	109	13	24	25/30/40/50/60
K0270.516ΔX	5	M16	23	30	32,5	49	12	33	72	77	110	126	15,5	26	30/40/50/60

Clamping levers with push button

internal thread





Material:
Handle fibreglass reinforced plastic, toothed ring die-cast zinc.
Steel parts grade 5.8.
Push button plastic (POM).

Version:
Steel parts black oxidised.

Sample order:
K0269.71104
(clamping lever black grey, push button traffic red)

Note:
Δ Enter the desired lever colour here.
The standard colours are:
Black grey clamping lever, traffic red push button.
Orange clamping lever, black grey push button.
Traffic red clamping lever, black grey push button.

On request:
Other internal threads and special versions.
Dimension “H1” available in other lengths at extra charge.

black grey Δ = 1	orange Δ = 2	traffic red Δ = 3
 RAL 7021	 RAL 2004	 RAL 3020

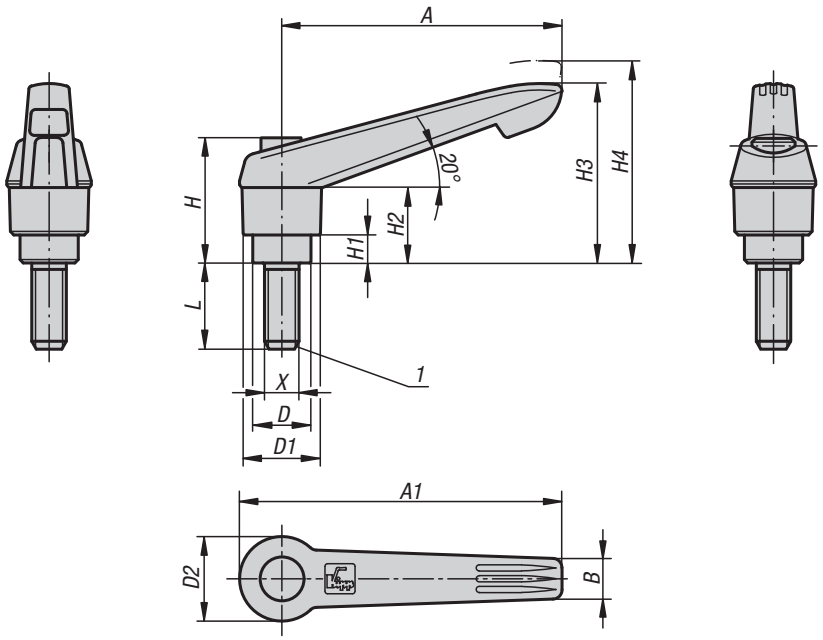
KIPP Clamping levers with push button, internal thread

Order No.	Size	X	T	D	D1	D2	H	H1	H2	H3	H4	A	A1	B	No. of teeth
K0269.7Δ104	1	M4	9	10	13	14,5	25,5	4	15	30	33,5	40	47	7,5	16
K0269.7Δ105	1	M5	9	10	13	14,5	25,5	4	15	30	33,5	40	47	7,5	16
K0269.7Δ106	1	M6	9	10	13	14,5	25,5	4	15	30	33,5	40	47	7,5	16
K0269.7Δ206	2	M6	12	13,5	18	19,5	29,5	6,5	17,5	41,5	45,5	65	75	9,5	20
K0269.7Δ208	2	M8	12	13,5	18	19,5	29,5	6,5	17,5	41,5	45,5	65	75	9,5	20
K0269.7Δ308	3	M8	14	16	21,5	23	38,5	10	24	53,5	58	80	91,5	11	22
K0269.7Δ310	3	M10	14	16	21,5	23	38,5	10	24	53,5	58	80	91,5	11	22
K0269.7Δ410	4	M10	17	19	25,5	27,5	44,6	10	26	61	66	95	109	13	24
K0269.7Δ412	4	M12	17	19	25,5	27,5	44,6	10	26	61	66	95	109	13	24
K0269.7Δ512	5	M12	23	23	30	32,5	50,6	12	33	72	77	110	126	15,5	26
K0269.7Δ516	5	M16	23	23	30	32,5	50,6	12	33	72	77	110	126	15,5	26

Clamping levers with push button

external thread





Material:
Handle fibreglass reinforced plastic, toothed ring die-cast zinc.
Steel parts grade 5.8.
Push button plastic (POM).

Version:
Steel parts black oxidised.

Sample order:
K0269.71105X10
(clamping lever black grey, push button traffic red. Include length L)

Note:
Δ Enter the desired lever colour here.
The standard colours are:
Black grey clamping lever, traffic red push button.
Orange clamping lever, black grey push button.
Traffic red clamping lever, black grey push button.

On request:
Other external threads, screw lengths and special versions.
Dimension “H1” available in other lengths at extra charge.

Drawing reference:
1) flat point DIN 78

black grey Δ = 1	orange Δ = 2	traffic red Δ = 3
 RAL 7021	 RAL 2004	 RAL 3020

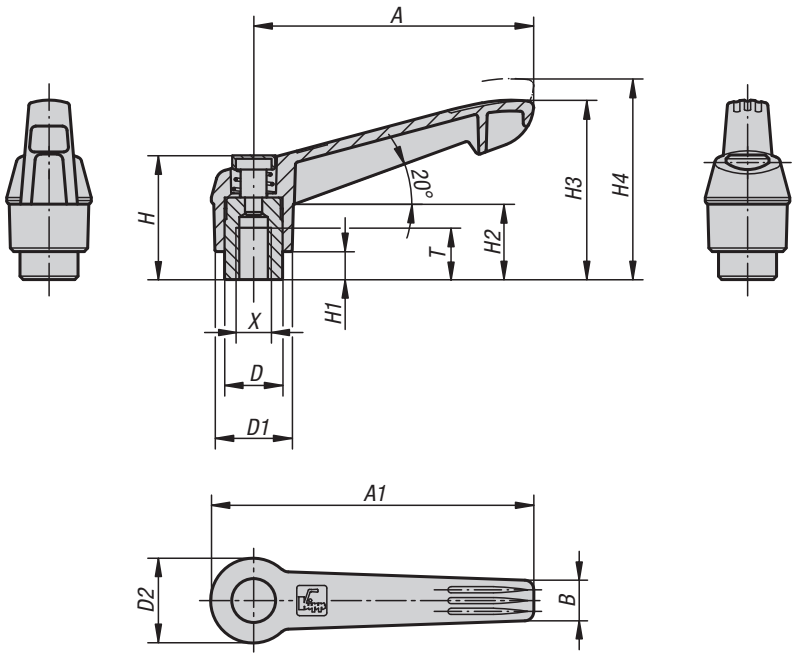
KIPP Clamping lever with push button, external thread

Order No.	Size	X	D	D1	D2	H	H1	H2	H3	H4	A	A1	B	No. of teeth	L
K0269.7Δ105X	1	M5	10	13	14,5	25,5	4	15	30	33,5	40	47	7,5	16	10/15/20/25/30/35/40/45/50
K0269.7Δ106X	1	M6	10	13	14,5	25,5	4	15	30	33,5	40	47	7,5	16	10/15/20/25/30/35/40/45/50
K0269.7Δ206X	2	M6	13,5	18	19,5	29,5	6,5	17,5	41,5	45,5	65	75	9,5	20	15/20/25/30/35/40/45/50/55/60
K0269.7Δ208X	2	M8	13,5	18	19,5	29,5	6,5	17,5	41,5	45,5	65	75	9,5	20	15/20/25/30/35/40/45/50/55/60
K0269.7Δ210X	2	M10	13,5	18	19,5	29,5	6,5	17,5	41,5	45,5	65	75	9,5	20	15/20/25/30/35/40/45/50/55/60
K0269.7Δ308X	3	M8	16	21,5	23	38,5	10	24	53,5	58	80	91,5	11	22	15/20/25/30/35/40/45/50/55/60
K0269.7Δ310X	3	M10	16	21,5	23	38,5	10	24	53,5	58	80	91,5	11	22	15/20/25/30/35/40/45/50/55/60
K0269.7Δ410X	4	M10	19	25,5	27,5	44,6	10	26	61	66	95	109	13	24	20/25/30/35/40/45/50/55/60/70/80/90
K0269.7Δ412X	4	M12	19	25,5	27,5	44,6	10	26	61	66	95	109	13	24	20/25/30/35/40/45/50/55/60/70/80/90
K0269.7Δ512X	5	M12	23	30	32,5	50,6	12	33	72	77	110	126	15,5	26	25/30/35/40/45/50/55/60/70/80/90
K0269.7Δ516X	5	M16	23	30	32,5	50,6	12	33	72	77	110	126	15,5	26	25/30/35/40/45/50/55/60/70/80/90

Clamping levers with push button

internal thread, metal parts stainless-steel





Material:
Handle fibreglass reinforced plastic, toothed ring die-cast zinc.
Metal parts stainless steel 1.4305.
Push button plastic (POM).

Version:
Steel parts bright.

Sample order:
K0270.71104
(clamping lever black grey, push button traffic red)

Note:
Δ Enter the desired lever colour here.
The standard colours are:
Black grey clamping lever, traffic red push button.
Orange clamping lever, black grey push button.
Traffic red clamping lever, black grey push button.

On request:
Other internal threads and special versions.
Dimension “H1” available in other lengths at extra charge.

black grey Δ = 1	orange Δ = 2	traffic red Δ = 3
 RAL 7021	 RAL 2004	 RAL 3020

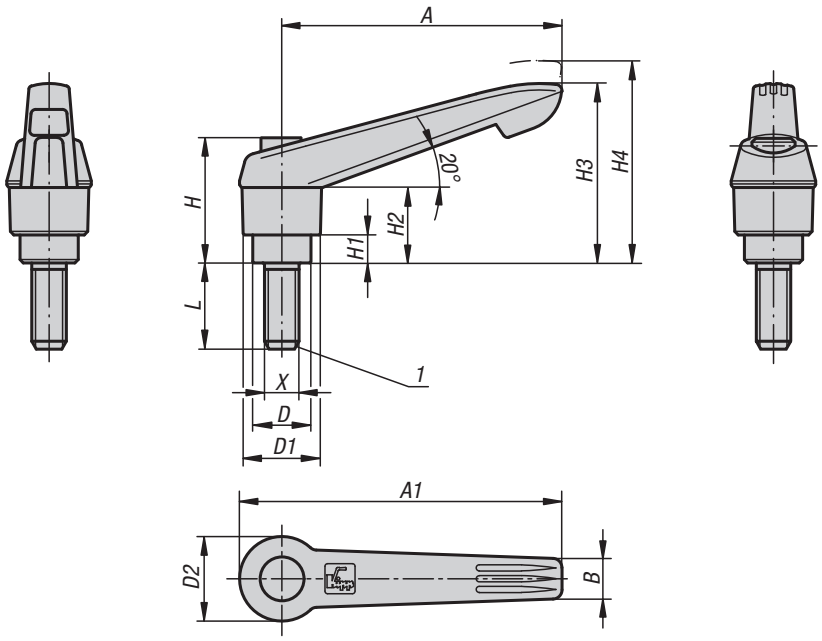
KIPP Clamping levers with push button, internal thread, metal parts stainless steel

Order No.	Size	X	T	D	D1	D2	H	H1	H2	H3	H4	A	A1	B	No. of teeth
K0270.7Δ104	1	M4	9	10	13	14,5	25,5	4	15	30	33,5	40	47	7,5	16
K0270.7Δ105	1	M5	9	10	13	14,5	25,5	4	15	30	33,5	40	47	7,5	16
K0270.7Δ106	1	M6	9	10	13	14,5	25,5	4	15	30	33,5	40	47	7,5	16
K0270.7Δ206	2	M6	12	13,5	18	19,5	29,5	6,5	17,5	41,5	45,5	65	75	9,5	20
K0270.7Δ208	2	M8	12	13,5	18	19,5	29,5	6,5	17,5	41,5	45,5	65	75	9,5	20
K0270.7Δ308	3	M8	14	16	21,5	23	38,5	10	24	53,5	58	80	91,5	11	22
K0270.7Δ310	3	M10	14	16	21,5	23	38,5	10	24	53,5	58	80	91,5	11	22
K0270.7Δ410	4	M10	17	19	25,5	27,5	44,6	10	26	61	66	95	109	13	24
K0270.7Δ412	4	M12	17	19	25,5	27,5	44,6	10	26	61	66	95	109	13	24
K0270.7Δ512	5	M12	23	23	30	32,5	50,6	12	33	72	77	110	126	15,5	26
K0270.7Δ516	5	M16	23	23	30	32,5	50,6	12	33	72	77	110	126	15,5	26

Clamping lever with push button

external thread, metal parts stainless-steel





Material:
Handle fibreglass reinforced plastic, toothed ring die-cast zinc.
Metal parts stainless steel 1.4305.
Push button plastic (POM).

Version:
Steel parts bright.

Sample order:
K0270.71105X10
(Clamping lever black grey, push button traffic red. Include length L)

Note:
Δ Enter the desired lever colour here.
The standard colours are:
Black grey clamping lever, traffic red push button.
Orange clamping lever, black grey push button.
Traffic red clamping lever, black grey push button.

On request:
Other external threads, screw lengths and special versions.
Dimension “H1” available in other lengths at extra charge.

Drawing reference:
1) flat point DIN 78

black grey Δ = 1	orange Δ = 2	traffic red Δ = 3
 RAL 7021	 RAL 2004	 RAL 3020

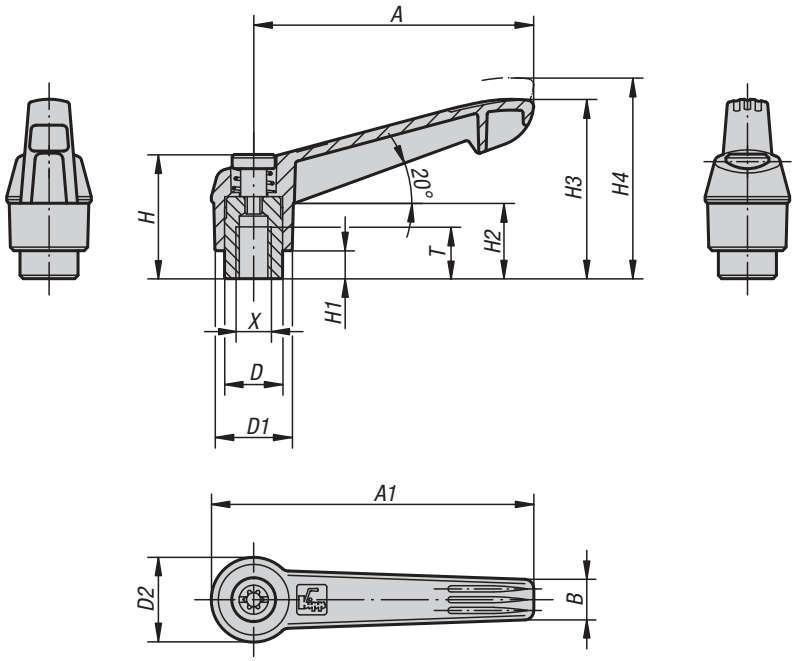
KIPP Clamping levers with push button, external thread, metal parts stainless steel

Order No.	Size	X	D	D1	D2	H	H1	H2	H3	H4	A	A1	B	No. of teeth	L
K0270.7Δ105X	1	M5	10	13	14,5	25,5	4	15	30	33,5	40	47	7,5	16	10/15/20/25
K0270.7Δ106X	1	M6	10	13	14,5	25,5	4	15	30	33,5	40	47	7,5	16	10/15/20/25/30/40/50
K0270.7Δ206X	2	M6	13,5	18	19,5	29,5	6,5	17,5	41,5	45,5	65	75	9,5	20	15/20/25/30/40/50/60
K0270.7Δ208X	2	M8	13,5	18	19,5	29,5	6,5	17,5	41,5	45,5	65	75	9,5	20	15/20/25/30/40/50/60
K0270.7Δ210X	2	M10	13,5	18	19,5	29,5	6,5	17,5	41,5	45,5	65	75	9,5	20	20/25/30/40/50/60
K0270.7Δ308X	3	M8	16	21,5	23	38,5	10	24	53,5	58	80	91,5	11	22	20/25/30/40/50/60
K0270.7Δ310X	3	M10	16	21,5	23	38,5	10	24	53,5	58	80	91,5	11	22	20/25/30/40/50/60
K0270.7Δ412X	4	M12	19	25,5	27,5	44,6	10	26	61	66	95	109	13	24	25/30/40/50/60
K0270.7Δ516X	5	M16	23	30	32,5	50,6	12	33	72	77	110	126	15,5	26	30/40/50/60

Clamping levers antistatic

internal thread, plastic grip





Material:
Handles reinforced plastic, toothed ring die-cast zinc.
Steel parts grade 5.8.

Version:
Steel parts black oxidised, handles graphite black.

Sample order:
K0269.1120624

Application:
Sensitive electrical or electronic equipment, components and devices (ESD sensitive elements) may be damaged or destroyed by electrostatic discharges (ESD) in the immediate vicinity.
Electrostatic discharges can come from people or through handling ESD sensitive components (e.g. during production, assembly, transport, storage etc).
Electrically conductive products which conform to DIN EN 61340-5-1 are essential within electronic environments to prevent an electrostatic discharge.
These products can be used for ESD applications or in ESD protection areas (EPA) in accordance with DIN EN 61340-5-1.
The yellow ESD logo is printed on the side of the product to clearly identify it.

Safety:
These ESD products can also be used for devices, components and protection systems in areas with high risk of explosion.
Use of these ESD products prevents the occurrence of electrostatic spark discharges, eliminating the potential ignition of gases and dusts which could lead to explosions in enclosed spaces.
Manufacturers and operators must use and conform to ATEX directives for the protection of persons working in areas with high risk of explosion.
These ESD products are certified by TÜV-Süd in relation to their electrical discharge capability.

Target groups:
Device manufacturers required to conform to ATEX product directive 2014/34/EU.
Operators required to conform to ATEX worker protection directive 1999/92/EC.

lift to disengage



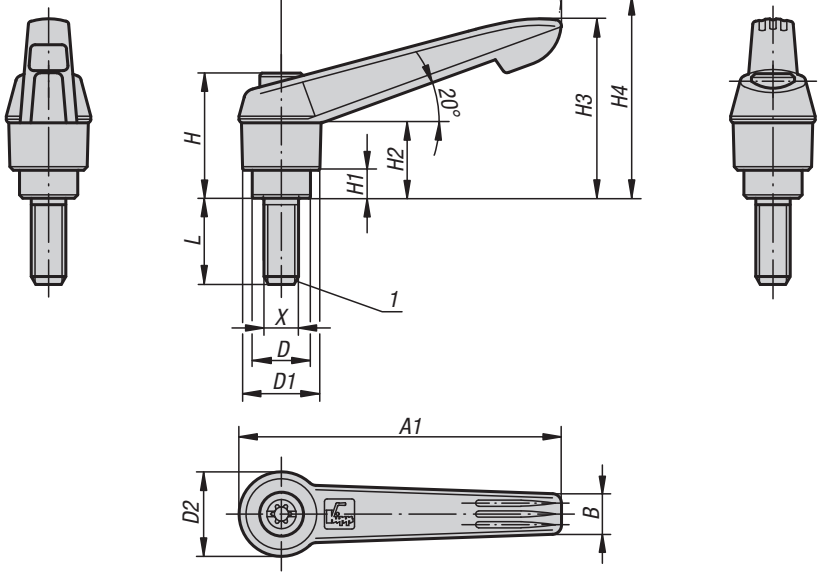
KIPP Clamping levers antistatic, internal thread, plastic grip

Order No.	Main colour	Size	X	T	D	D1	D2	H	H1	H2	H3	H4	A	A1	B	No. of teeth
K0269.1120624	Graphite black RAL 9011	2	M6	12	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	65	75	9,5	20
K0269.1120824	Graphite black RAL 9011	2	M8	12	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	65	75	9,5	20

Clamping levers antistatic

external thread, plastic grip





Material:
Handles reinforced plastic, toothed ring die-cast zinc.
Steel parts grade 5.8.

Version:
Steel parts black oxidised, handles graphite black.

Sample order:
K0269.1120624X20

Application:
Sensitive electrical or electronic equipment, components and devices (ESD sensitive elements) may be damaged or destroyed by electrostatic discharges (ESD) in the immediate vicinity.
Electrostatic discharges can come from people or through handling ESD sensitive components (e.g. during production, assembly, transport, storage etc).
Electrically conductive products which conform to DIN EN 61340-5-1 are essential within electronic environments to prevent an electrostatic discharge.
These products can be used for ESD applications or in ESD protection areas (EPA) in accordance with DIN EN 61340-5-1.
The yellow ESD logo is printed on the side of the product to clearly identify it.

Safety:
These ESD products can also be used for devices, components and protection systems in areas with high risk of explosion.
Use of these ESD products prevents the occurrence of electrostatic spark discharges, eliminating the potential ignition of gases and dusts which could lead to explosions in enclosed spaces.
Manufacturers and operators must use and conform to ATEX directives for the protection of persons working in areas with high risk of explosion.
These ESD products are certified by TÜV-Süd in relation to their electrical discharge capability.

Target groups:
Device manufacturers required to conform to ATEX product directive 2014/34/EU.
Operators required to conform to ATEX worker protection directive 1999/92/EC.

Drawing reference:
1) flat point DIN 78

lift to disengage



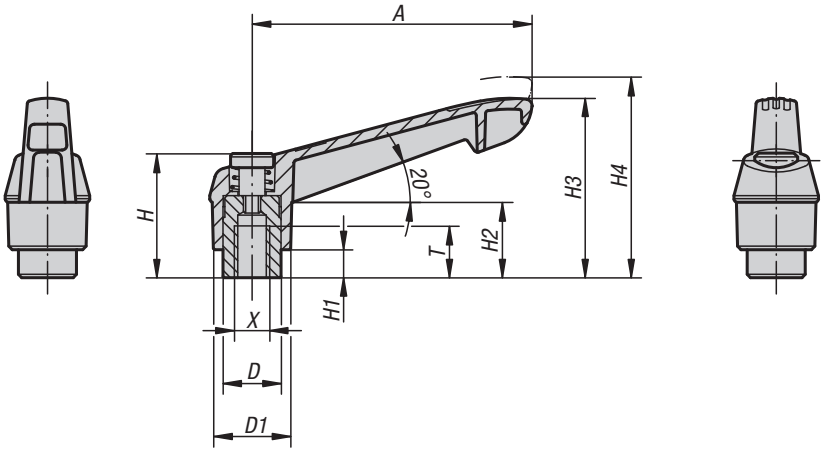
KIPP Clamping levers antistatic, external thread, plastic grip

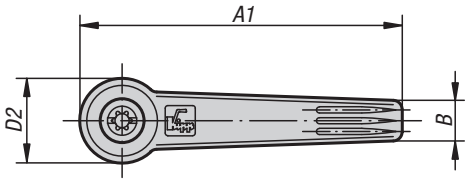
Order No.	Main colour	Size	X	D	D1	D2	H	H1	H2	H3	H4	A	A1	B	No. of teeth	L
K0269.1120624X20	Graphite black RAL 9011	2	M6	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	65	75	9,5	20	20
K0269.1120824X20	Graphite black RAL 9011	2	M8	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	65	75	9,5	20	20
K0269.1121024X20	Graphite black RAL 9011	2	M10	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	65	75	9,5	20	20

Clamping levers antibacterial

internal thread, plastic grip, metal parts stainless steel







Material:
Handles slate grey reinforced plastic, toothed ring die-cast zinc.
Steel parts stainless steel 1.4305.

Version:
Stainless steel bright.

Sample order:
K0270.12206144

Application:
The antibacterial KIPP MEDI grip products are highly effective against a variety of hazardous microorganisms, such as bacteria, fungi, viruses and even multi-resistant bacteria (e.g. MRSA).
The plastic used incorporates micro-silver particles with an antimicrobial effect to ensure effective results throughout the entire product life cycle.

Function:
Silver ions are effective in preventing harmful microorganisms from forming on the product surface, promoting a constant reduction of the existing germs on the MEDI grip products (as tested and confirmed by an accredited testing laboratory).
During cleaning cycles the risk of infection while touching these products is significantly lower.

Advantages:
Resistant to humidity and cleaning products (during disinfection) with no toxic side effects.

Applications:
For installation on machines, equipment, plants and furnishings in areas with increased hygienic requirements (including hospitals, doctors' surgeries, rehabilitation centres and food production facilities), as well as for use in public areas or regularly frequented institutions (i.e. nursing homes or daycare centres).

lift to disengage



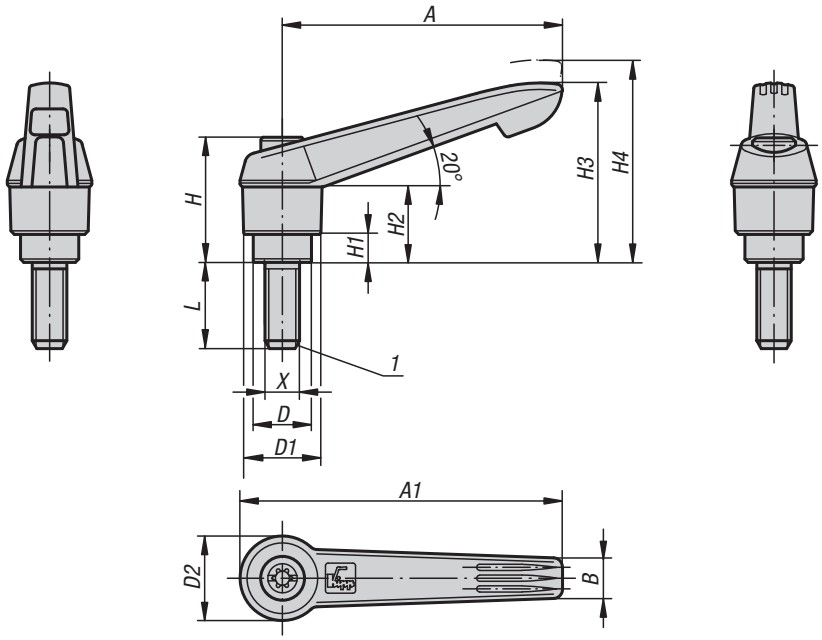
KIPP Clamping levers antibacterial, internal thread, plastic grip, metal parts stainless steel

Order No.	Size	X	T	D	D1	D2	H	H1	H2	H3	H4	A	A1	B	No. of teeth
K0270.12206144	2	M6	12	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	65	75	9,5	20
K0270.12208144	2	M8	12	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	65	75	9,5	20

Clamping levers antibacterial

external thread, plastic grip, metal parts stainless steel





Material:
Handles slate grey reinforced plastic, toothed ring die-cast zinc.
Steel parts stainless steel 1.4305.

Version:
Stainless steel bright.

Sample order:
K0270.12210144X20

Application:
The antibacterial KIPP MEDI grip products are highly effective against a variety of hazardous microorganisms, such as bacteria, fungi, viruses and even multi-resistant bacteria (e.g. MRSA).
The plastic used incorporates micro-silver particles with an antimicrobial effect to ensure effective results throughout the entire product life cycle.

Function:
Silver ions are effective in preventing harmful microorganisms from forming on the product surface, promoting a constant reduction of the existing germs on the MEDI grip products (as tested and confirmed by an accredited testing laboratory).
During cleaning cycles the risk of infection while touching these products is significantly lower.

Advantages:
Resistant to humidity and cleaning products (during disinfection) with no toxic side effects.

Applications:
For installation on machines, equipment, plants and furnishings in areas with increased hygienic requirements (including hospitals, doctors' surgeries, rehabilitation centres and food production facilities), as well as for use in public areas or regularly frequented institutions (i.e. nursing homes or daycare centres).

lift to disengage



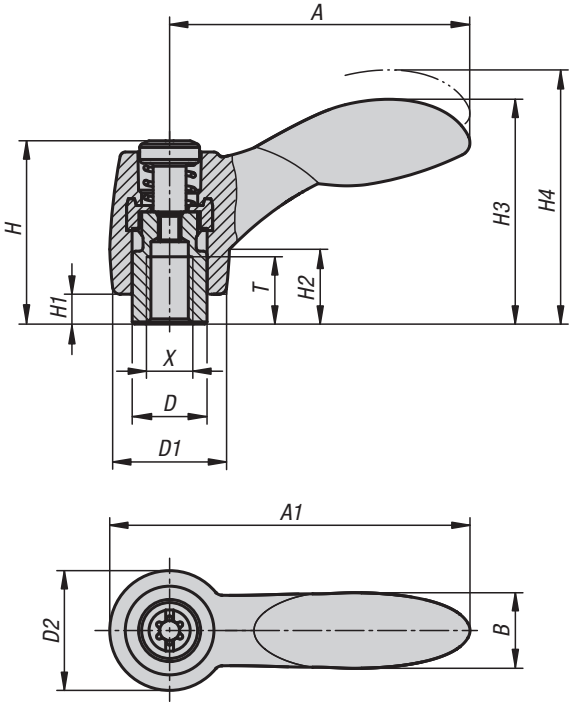
KIPP Clamping levers antibacterial, external thread, plastic grip, metal parts stainless steel

Order No.	Size	X	D	D1	D2	H	H1	H2	H3	H4	A	A1	B	No. of teeth	L
K0270.12206144X20	2	M6	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	65	75	9,5	20	20
K0270.12208144X20	2	M8	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	65	75	9,5	20	20
K0270.12210144X20	2	M10	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	65	75	9,5	20	20

Clamping levers 2K

internal thread





Material:
Handle:
Hard component fibreglass reinforced plastic with die-cast zinc toothed ring.
Soft component Thermoflex based on SEBS.
Steel parts:
grade 5.8.

Version:
Steel parts black oxidised.

Sample order:
K0125.10401

Note:
The hard and soft components are supplied in black grey RAL 7021 as standard.

On request:
Other internal threads, colour combinations and special versions.
Dimension “H1” available in other lengths on request at extra charge.



lift to disengage



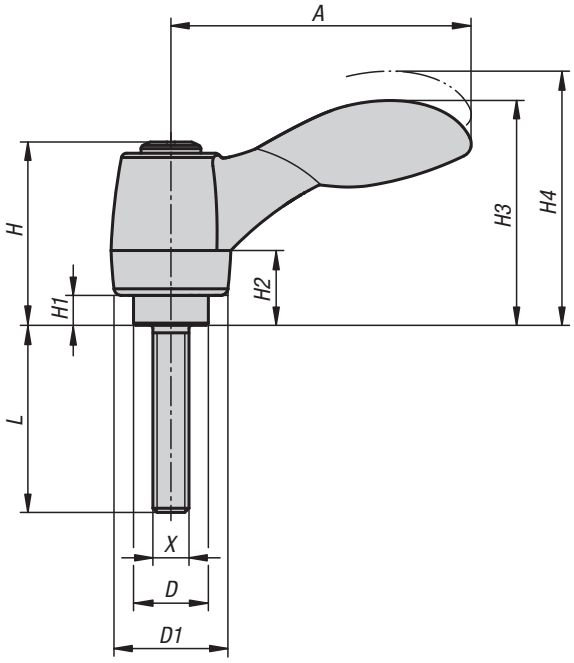
KIPP Clamping levers 2K with internal thread

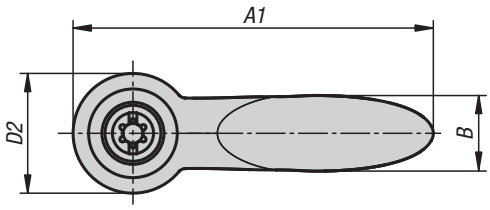
Order No.	Size	X	T	D	D1	D2	H	H1	H2	H3	H4	A	A1	B	No. of teeth
K0125.10401	1	M4	9	10	15	16	24,5	4	10	30	33,5	40,1	48,1	10,1	16
K0125.10501	1	M5	9	10	15	16	24,5	4	10	30	33,5	40,1	48,1	10,1	16
K0125.10601	1	M6	9	10	15	16	24,5	4	10	30	33,5	40,1	48,1	10,1	16
K0125.20601	2	M6	12	13,5	17,5	19	28,5	6,5	12,5	41,2	45,2	64,9	74,4	17,6	20
K0125.20801	2	M8	12	13,5	17,5	19	28,5	6,5	12,5	41,2	45,2	64,9	74,4	17,6	20
K0125.30801	3	M8	14	16	21	22	37	10	17	51,6	56,1	80,2	91,2	20,7	22
K0125.31001	3	M10	14	16	21	22	37	10	17	51,6	56,1	80,2	91,2	20,7	22

Clamping levers 2K

external thread







Material:
Handle:
Hard component fibreglass reinforced plastic with die-cast zinc toothed ring.
Soft component Thermoflex based on SEBS.
Steel parts:
grade 5.8.

Version:
Steel parts black oxidised.

Sample order:
K0125.10501X10 (include length L)

Note:
The hard and soft components are supplied in black grey RAL 7021 as standard.

On request:
Other external threads, screw lengths, colour combinations and special versions.
Dimension “H1” available in other lengths on request at extra charge.

lift to disengage





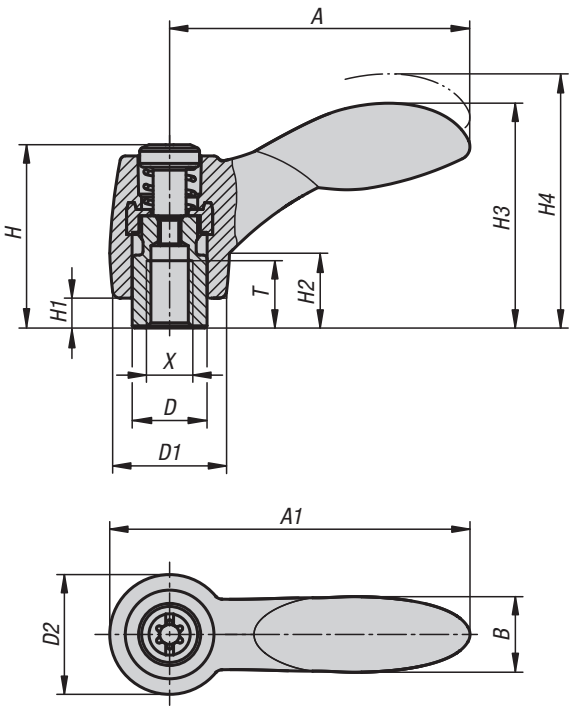
KIPP Clamping levers 2K with external thread

Order No.	Size	X	D	D1	D2	H	H1	H2	H3	H4	A	A1	B	No. of teeth	L
K0125.10501X	1	M5	10	15	16	24,5	4	10	30	33,5	40,1	48,1	10,1	16	10/15/20/25/30/35/40/45/50
K0125.10601X	1	M6	10	15	16	24,5	4	10	30	33,5	40,1	48,1	10,1	16	10/15/20/25/30/35/40/45/50
K0125.20601X	2	M6	13,5	17,5	19	28,5	6,5	12,5	41,2	45,2	64,9	74,4	17,6	20	15/20/25/30/35/40/45/50/55/60
K0125.20801X	2	M8	13,5	17,5	19	28,5	6,5	12,5	41,2	45,2	64,9	74,4	17,6	20	15/20/25/30/35/40/45/50/55/60
K0125.21001X	2	M10	13,5	17,5	19	28,5	6,5	12,5	41,2	45,2	64,9	74,4	17,6	20	15/20/25/30/35/40/45/50/55/60
K0125.30801X	3	M8	16	21	22	37	10	17	51,6	56,1	80,2	91,2	20,7	22	15/20/25/30/35/40/45/50/55/60
K0125.31001X	3	M10	16	21	22	37	10	17	51,6	56,1	80,2	91,2	20,7	22	15/20/25/30/35/40/45/50/55/60

Clamping levers 2K

internal thread, metal parts stainless steel





Material:
Handle:
Hard component in glass-fibre-reinforced plastic with toothed wheel in die cast zinc.
Soft component: Thermoflex based on SEBS.
Steel parts:
Stainless steel, 1.4305.

Version:
Steel parts bright.

Sample order:
K0126.10401

Note:
The hard and soft components are supplied in black grey RAL 7021 as standard.

On request:
Other internal threads, colour combinations and special versions.
Dimension “H1” available in other lengths on request at extra charge.



lift to disengage



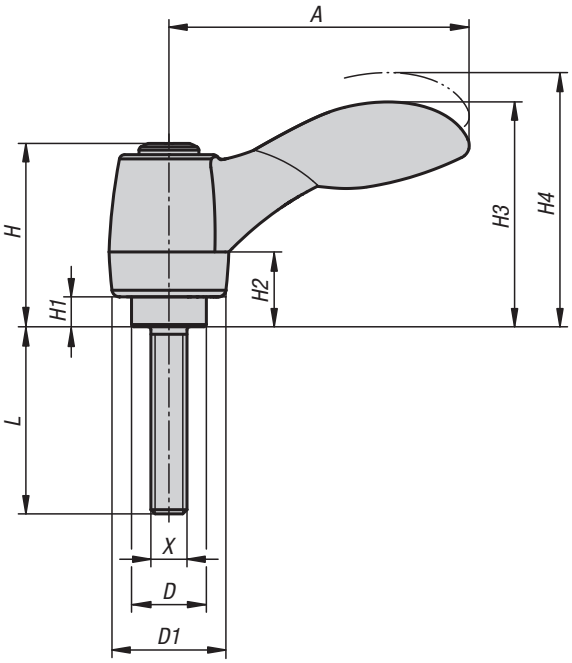
KIPP Clamping levers 2K with internal thread, metal parts stainless steel

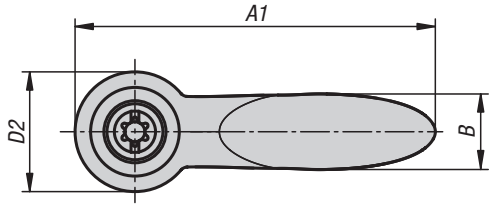
Order No.	Size	X	T	D	D1	D2	H	H1	H2	H3	H4	A	A1	B	No. of teeth
K0126.10401	1	M4	9	10	15	16	24,5	4	10	30	33,5	40,1	48,1	10,1	16
K0126.10501	1	M5	9	10	15	16	24,5	4	10	30	33,5	40,1	48,1	10,1	16
K0126.10601	1	M6	9	10	15	16	24,5	4	10	30	33,5	40,1	48,1	10,1	16
K0126.20601	2	M6	12	13,5	17,5	19	28,5	6,5	12,5	41,2	45,2	64,9	74,4	17,6	20
K0126.20801	2	M8	12	13,5	17,5	19	28,5	6,5	12,5	41,2	45,2	64,9	74,4	17,6	20
K0126.30801	3	M8	14	16	21	22	37	10	17	51,6	56,1	80,2	91,2	20,7	22
K0126.31001	3	M10	14	16	21	22	37	10	17	51,6	56,1	80,2	91,2	20,7	22

Clamping levers 2K

external thread, metal parts stainless steel







Material:
Handle:
Hard component in glass-fibre-reinforced plastic with toothed wheel in die cast zinc.
Soft component: Thermoflex based on SEBS.
Steel parts:
Stainless steel 1.4305

Version:
Steel parts bright.

Sample order:
K0126.10501X10 (include length L)

Note:
The hard and soft components are supplied in black grey RAL 7021 as standard.

On request:
Other external threads, screw lengths, colour combinations and special versions.
Dimension “H1” available in other lengths at extra charge.



lift to disengage



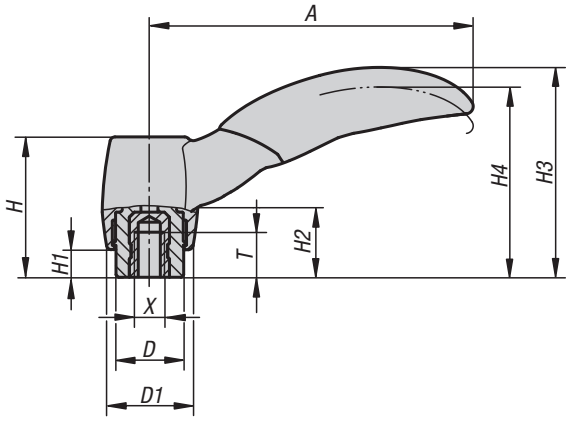
KIPP Clamping levers 2K with external thread, metal parts stainless steel

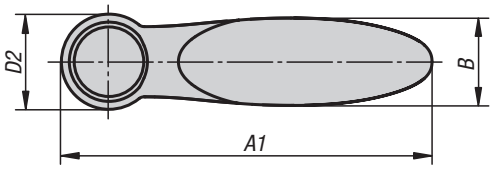
Order No.	Size	X	D	D1	D2	H	H1	H2	H3	H4	A	A1	B	No. of teeth	L
K0126.10501X	1	M5	10	15	16	24,5	4	10	30	33,5	40,1	48,1	10,1	16	10/15/20/25
K0126.10601X	1	M6	10	15	16	24,5	4	10	30	33,5	40,1	48,1	10,1	16	10/15/20/25/30/40/50
K0126.20601X	2	M6	13,5	17,5	19	28,5	6,5	12,5	41,2	45,2	64,9	74,4	17,6	20	15/20/25/30/40/50/60
K0126.20801X	2	M8	13,5	17,5	19	28,5	6,5	12,5	41,2	45,2	64,9	74,4	17,6	20	15/20/25/30/40/50/60
K0126.21001X	2	M10	13,5	17,5	19	28,5	6,5	12,5	41,2	45,2	64,9	74,4	17,6	20	20/25/30/40/50/60
K0126.30801X	3	M8	16	21	22	37	10	17	51,6	56,1	80,2	91,2	20,7	22	20/25/30/40/50/60
K0126.31001X	3	M10	16	21	22	37	10	17	51,6	56,1	80,2	91,2	20,7	22	20/25/30/40/50/60

Clamping lever ECO

internal thread







Material:
Handle and insert reinforced plastic.

For size 1 and 2, brass bush.
For size 3, steel bush.

Version:
Steel blue passivated.

Sample order:
K0252.1041

Note:
Standard colour is black grey RAL 7021.

On request:
Other internal threads, colours and special versions.

press to disengage



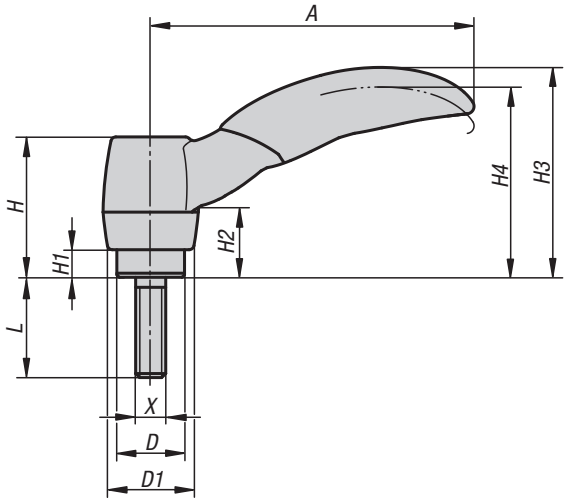
KIPP Clamping lever ECO internal thread

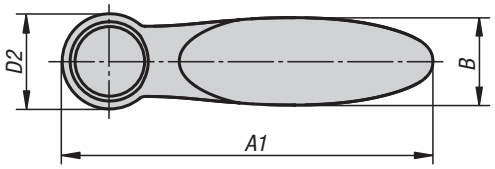
Order No.	Size	X	T	D	D1	D2	H	H1	H2	H3	H4	A	A1	B	No. of teeth
K0252.1041	1	M4	6	10	12,6	14,1	21,7	5	11,3	32	29,1	47,9	55	13	12
K0252.1051	1	M5	6	10	12,6	14,1	21,7	5	11,3	32	29,1	47,9	55	13	12
K0252.2051	2	M5	7,5	13,5	17	19	28	5,5	14	41,9	38	64,5	74	17,5	12
K0252.2061	2	M6	9	13,5	17	19	28	5,5	14	41,9	38	64,5	74	17,5	12
K0252.2081	2	M8	9	13,5	17	19	28	5,5	14	41,9	38	64,5	74	17,5	12
K0252.3081	3	M8	12	17	20,4	23,9	40,7	10	23,1	58,1	53,3	81,1	93	22	12
K0252.3101	3	M10	12	17	20,4	23,9	40,7	10	23,1	58,1	53,3	81,1	93	22	12

Clamping lever ECO

external thread







Material:
Handle and insert reinforced plastic.
Screw steel 5.8.

Version:
Steel blue passivated.

Sample order:
K0252.1041X10
(include length L)

Note:
Standard colour is black grey RAL 7021.

On request:
Other external threads, colours and special versions.

press to disengage



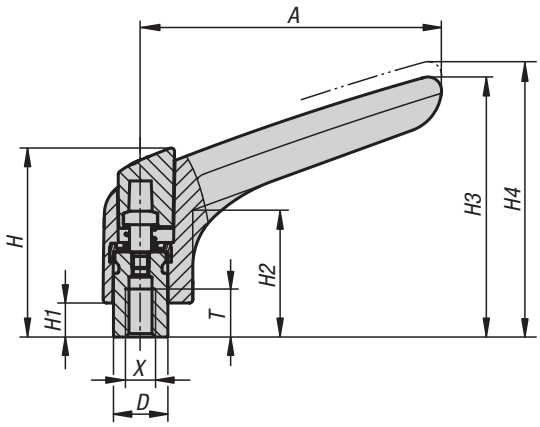
KIPP Clamping lever ECO external thread

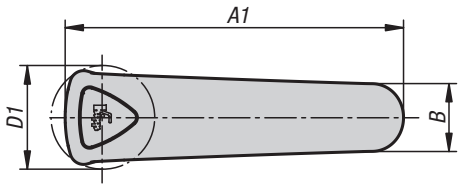
Order No.	Size	X	D	D1	D2	H	H1	H2	H3	H4	A	A1	B	No. of teeth	L
K0252.1041X	1	M4	10	12,6	14,1	21,7	5	11,3	32	29,1	47,9	55	13	12	10/15/20
K0252.1051X	1	M5	10	12,6	14,1	21,7	5	11,3	32	29,1	47,9	55	13	12	10/15/20/25
K0252.2051X	2	M5	13,5	17	19	28	5,5	14	41,9	38	64,5	74	17,5	12	10/15/20/25/30/40
K0252.2061X	2	M6	13,5	17	19	28	5,5	14	41,9	38	64,5	74	17,5	12	10/15/20/25/30/40
K0252.2081X	2	M8	13,5	17	19	28	5,5	14	41,9	38	64,5	74	17,5	12	10/15/20/25/30/40
K0252.3081X	3	M8	17	20,4	23,9	40,7	10	23,1	58,1	53,3	81,1	93	22	12	20/25/30/40/50/60
K0252.3101X	3	M10	17	20,4	23,9	40,7	10	23,1	58,1	53,3	81,1	93	22	12	20/25/30/40/50/60

Clamping levers ergonomic

internal thread







Material:
Handle:
Hard components reinforced plastic, toothed ring die-cast zinc.
Soft components thermoplastic elastomer.
Steel parts:
grade 5.8.

Version:
Steel parts blue-passivated.

Sample order:
K0981.3081

Note:
The colour combinations
graphite black RAL 9011 (hard components) and
black grey RAL 7021 (soft components)
are supplied as standard.

The soft components ensure a non-slip grip of the operating part. The closed design offers sufficient protection against dirt. The design was especially developed for ergonomic gripping requirements.

The push button improves disengagement and allows the handle to be easily used.

On request:
Other internal threads, colours and special versions.
Dimension “H1” available in other lengths at extra charge.

lift to disengage

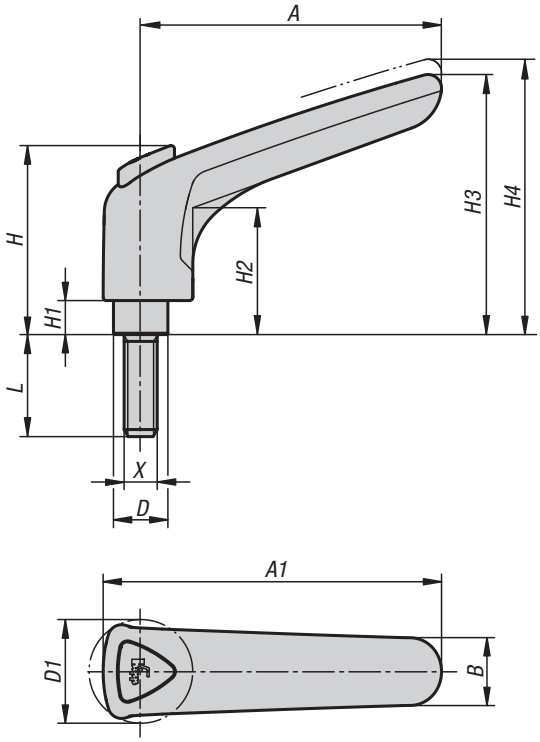


KIPP Clamping lever, ergonomic, internal thread

Order No.	Size	X	T	D	D1	H	H1	H2	H3	H4	A	A1	B	No. of teeth
K0981.3081	3	M8	14	16	30,5	55,6	10	37,3	76,5	81	88,5	99,5	20	22
K0981.3101	3	M10	14	16	30,5	55,6	10	37,3	76,5	81	88,5	99,5	20	22

Clamping levers ergonomic

external thread



On request:
Other external threads, screw lengths, colour combinations and special versions.
Dimension “H1” available in other lengths on request at extra charge.



Material:
Handle:
Hard components reinforced plastic, toothed ring die-cast zinc.
Soft components thermoplastic elastomer.
Steel parts:
grade 5.8.

Version:
Steel parts blue-passivated.

Sample order:
K0981.3081X15

Note:
The colour combinations
graphite black RAL 9011 (hard components) and
black grey RAL 7021 (soft components)
are supplied as standard.

The soft components ensure a non-slip grip of the operating part. The closed design offers sufficient protection against dirt. The design was especially developed for ergonomic gripping requirements.

The push button improves disengagement and allows the handle to be easily used.

lift to disengage



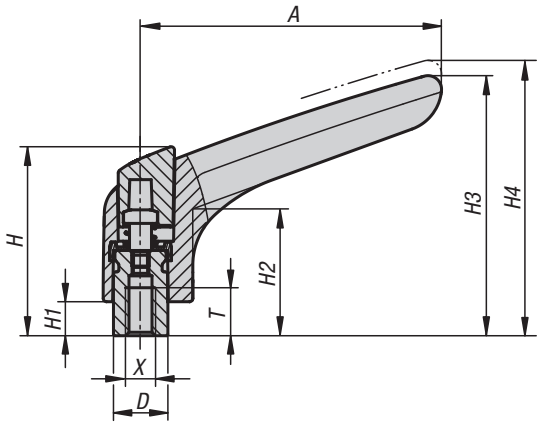
KIPP Clamping lever, ergonomic, external thread

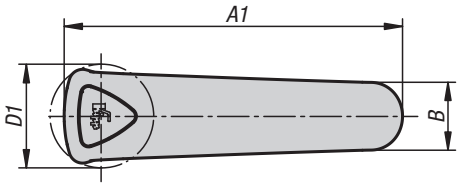
Order No.	Size	X	D	D1	H	H1	H2	H3	H4	A	A1	B	No. of teeth	L
K0981.3081X15	3	M8	16	30,5	55,6	10	37,3	76,5	81	88,5	99,5	20	22	15
K0981.3081X20	3	M8	16	30,5	55,6	10	37,3	76,5	81	88,5	99,5	20	22	20
K0981.3081X25	3	M8	16	30,5	55,6	10	37,3	76,5	81	88,5	99,5	20	22	25
K0981.3081X30	3	M8	16	30,5	55,6	10	37,3	76,5	81	88,5	99,5	20	22	30
K0981.3081X35	3	M8	16	30,5	55,6	10	37,3	76,5	81	88,5	99,5	20	22	35
K0981.3081X40	3	M8	16	30,5	55,6	10	37,3	76,5	81	88,5	99,5	20	22	40
K0981.3081X45	3	M8	16	30,5	55,6	10	37,3	76,5	81	88,5	99,5	20	22	45
K0981.3081X50	3	M8	16	30,5	55,6	10	37,3	76,5	81	88,5	99,5	20	22	50
K0981.3081X55	3	M8	16	30,5	55,6	10	37,3	76,5	81	88,5	99,5	20	22	55
K0981.3081X60	3	M8	16	30,5	55,6	10	37,3	76,5	81	88,5	99,5	20	22	60
K0981.3101X15	3	M10	16	30,5	55,6	10	37,3	76,5	81	88,5	99,5	20	22	15
K0981.3101X20	3	M10	16	30,5	55,6	10	37,3	76,5	81	88,5	99,5	20	22	20
K0981.3101X25	3	M10	16	30,5	55,6	10	37,3	76,5	81	88,5	99,5	20	22	25
K0981.3101X30	3	M10	16	30,5	55,6	10	37,3	76,5	81	88,5	99,5	20	22	30
K0981.3101X35	3	M10	16	30,5	55,6	10	37,3	76,5	81	88,5	99,5	20	22	35
K0981.3101X40	3	M10	16	30,5	55,6	10	37,3	76,5	81	88,5	99,5	20	22	40
K0981.3101X45	3	M10	16	30,5	55,6	10	37,3	76,5	81	88,5	99,5	20	22	45
K0981.3101X50	3	M10	16	30,5	55,6	10	37,3	76,5	81	88,5	99,5	20	22	50
K0981.3101X55	3	M10	16	30,5	55,6	10	37,3	76,5	81	88,5	99,5	20	22	55
K0981.3101X60	3	M10	16	30,5	55,6	10	37,3	76,5	81	88,5	99,5	20	22	60

Clamping levers ergonomic

internal thread, steel parts stainless steel







Material:
Handle:
Hard components reinforced plastic, toothed ring die-cast zinc.
Soft components thermoplastic elastomer.
Steel parts:
Stainless steel, 1.4305.

Version:
Steel parts bright.

Sample order:
K0982.3081

Note:
The colour combinations
graphite black RAL 9011 (hard components) and black grey RAL 7021 (soft components)
are supplied as standard.

The soft components ensure a non-slip grip of the operating part. The closed design offers sufficient protection against dirt. The design was especially developed for ergonomic gripping requirements.

The push button improves disengagement and allows the handle to be easily used.

On request:
Other internal threads, colours and special versions.
Dimension “H1” available in other lengths at extra charge.

lift to disengage



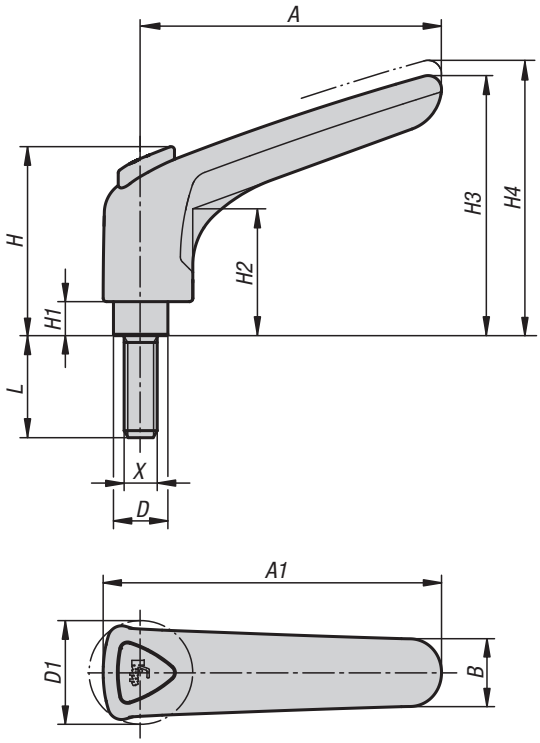
KIPP Clamping levers, ergonomic, internal thread, metal parts stainless steel

Order No.	Size	X	T	D	D1	H	H1	H2	H3	H4	A	A1	B	No. of teeth
K0982.3081	3	M8	14	16	30,5	55,6	10	37,3	76,5	81	88,5	99,5	20	22
K0982.3101	3	M10	14	16	30,5	55,6	10	37,3	76,5	81	88,5	99,5	20	22

Clamping levers ergonomic

external thread, steel parts stainless steel





lift to disengage



Material:
Handle:
Hard components reinforced plastic, toothed ring die-cast zinc.
Soft components thermoplastic elastomer.
Steel parts:
Stainless steel, 1.4305.

Version:
Steel parts bright.

Sample order:
K0982.3081X20

Note:
The colour combinations
graphite black RAL 9011 (hard components) and black grey RAL 7021 (soft components)
are supplied as standard.

The soft components ensure a non-slip grip of the operating part. The closed design offers sufficient protection against dirt. The design was especially developed for ergonomic gripping requirements.

The push button improves disengagement and allows the handle to be easily used.

On request:
Other external threads, screw lengths, colour combinations and special versions.
Dimension “H1” available in other lengths on request at extra charge.

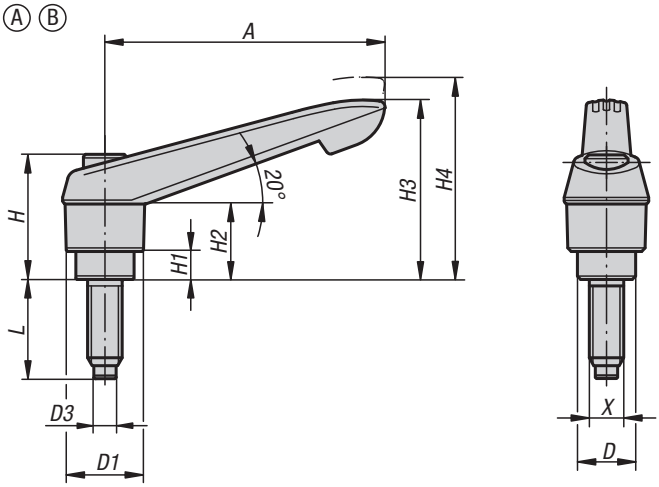
KIPP Clamping lever, ergonomic, external thread, metal parts stainless steel

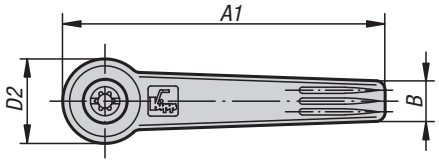
Order No.	Size	X	D	D1	H	H1	H2	H3	H4	A	A1	B	No. of teeth	L
K0982.3081X20	3	M8	16	30,5	55,6	10	37,3	76,5	81	88,5	99,5	20	22	20
K0982.3081X25	3	M8	16	30,5	55,6	10	37,3	76,5	81	88,5	99,5	20	22	25
K0982.3081X30	3	M8	16	30,5	55,6	10	37,3	76,5	81	88,5	99,5	20	22	30
K0982.3081X40	3	M8	16	30,5	55,6	10	37,3	76,5	81	88,5	99,5	20	22	40
K0982.3081X50	3	M8	16	30,5	55,6	10	37,3	76,5	81	88,5	99,5	20	22	50
K0982.3081X60	3	M8	16	30,5	55,6	10	37,3	76,5	81	88,5	99,5	20	22	60
K0982.3101X20	3	M10	16	30,5	55,6	10	37,3	76,5	81	88,5	99,5	20	22	20
K0982.3101X25	3	M10	16	30,5	55,6	10	37,3	76,5	81	88,5	99,5	20	22	25
K0982.3101X30	3	M10	16	30,5	55,6	10	37,3	76,5	81	88,5	99,5	20	22	30
K0982.3101X40	3	M10	16	30,5	55,6	10	37,3	76,5	81	88,5	99,5	20	22	40
K0982.3101X50	3	M10	16	30,5	55,6	10	37,3	76,5	81	88,5	99,5	20	22	50
K0982.3101X60	3	M10	16	30,5	55,6	10	37,3	76,5	81	88,5	99,5	20	22	60

Clamping lever with thrust pad

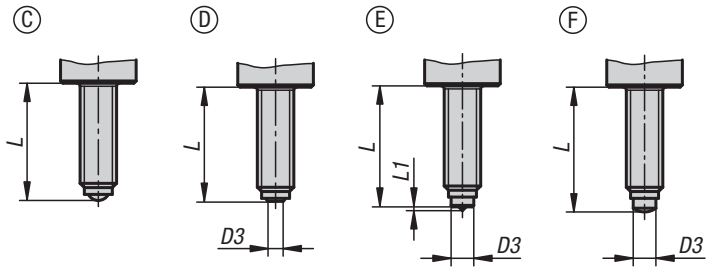


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Ⓒ Ⓓ Ⓔ Ⓕ



Material:
Handles fibreglass reinforced plastic with die-cast zinc toothed rings.
Steel parts grade 5.8.
Thrust pin, brass, steel or POM.
Ball in steel.

Version:
Steel parts black oxidised.

Sample order:
K0780.12061X20 (include length L)

Note:
The various different thrust pins are used to avoid pressure marks, compensate for unevenness or increase the grip on the workpiece.

On request:
Other external threads, screw lengths, clamp lever colours and thrust pin types as well as special versions.
Dimension “H1” optionally available in other lengths at extra cost.

Drawing reference:
Form A: brass thrust pin
Form B: POM thrust pin
Form C: with ball
Form D: with flattened ball
Form E: with point
Form F: with half-dog point



lift to disengage

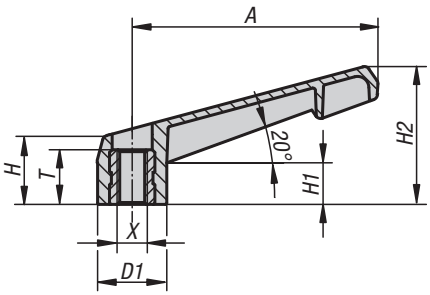


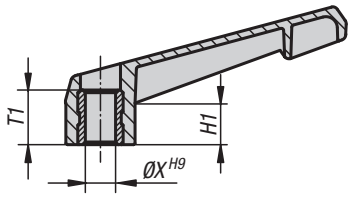
KIPP Clamping lever with thrust pad

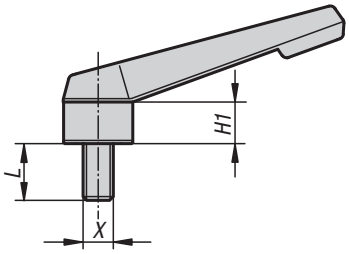
Order No.	Form	Component material	Size	X	D	D1	D2	D3	Ball-Ø	H	H1	H2	H3	H4	A	A1	B	No. of teeth	L	L1
K0780.11051X	A	pin brass	1	M5	10	13	14,5	3	-	24,5	4	15	30	33,5	40	47	7,5	16	20/30/40/50	-
K0780.11061X	A	pin brass	1	M6	10	13	14,5	4	-	24,5	4	15	30	33,5	40	47	7,5	16	20/30/40/50	-
K0780.12061X	A	pin brass	2	M6	13,5	18	19,5	4	-	28,5	6,5	17,5	41,5	45,5	65	75	9,5	20	20/30/40/50/60	-
K0780.12081X	A	pin brass	2	M8	13,5	18	19,5	5,5	-	28,5	6,5	17,5	41,5	45,5	65	75	9,5	20	20/30/40/50/60	-
K0780.12101X	A	pin brass	2	M10	13,5	18	19,5	7	-	28,5	6,5	17,5	41,5	45,5	65	75	9,5	20	20/30/40/50/60	-
K0780.21051X	B	pin POM	1	M5	10	13	14,5	3	-	24,5	4	15	30	33,5	40	47	7,5	16	20,5/30,5/40,5/50,5	-
K0780.21061X	B	pin POM	1	M6	10	13	14,5	3,5	-	24,5	4	15	30	33,5	40	47	7,5	16	19,8/29,8/39,8/49,8	-
K0780.22061X	B	pin POM	2	M6	13,5	18	19,5	3,5	-	28,5	6,5	17,5	41,5	45,5	65	75	9,5	20	19,8/29,8/39,8/49,8/59,8	-
K0780.22081X	B	pin POM	2	M8	13,5	18	19,5	5	-	28,5	6,5	17,5	41,5	45,5	65	75	9,5	20	19,6/29,6/39,6/49,6/59,6	-
K0780.22101X	B	pin POM	2	M10	13,5	18	19,5	6,5	-	28,5	6,5	17,5	41,5	45,5	65	75	9,5	20	19,9/29,9/39,9/49,9/59,9	-
K0780.31051X	C	ball steel	1	M5	10	13	14,5	-	3	24,5	4	15	30	33,5	40	47	7,5	16	19,5/29,5/39,5/49,5	-
K0780.31061X	C	ball steel	1	M6	10	13	14,5	-	4	24,5	4	15	30	33,5	40	47	7,5	16	19,3/29,3/39,3/49,3	-
K0780.32061X	C	ball steel	2	M6	13,5	18	19,5	-	4	28,5	6,5	17,5	41,5	45,5	65	75	9,5	20	19,3/29,3/39,3/49,3/59,3	-
K0780.32081X	C	ball steel	2	M8	13,5	18	19,5	-	5,5	28,5	6,5	17,5	41,5	45,5	65	75	9,5	20	19,2/29,2/39,2/49,2/59,2	-
K0780.32101X	C	ball steel	2	M10	13,5	18	19,5	-	7	28,5	6,5	17,5	41,5	45,5	65	75	9,5	20	19,7/29,7/39,7/49,7/59,7	-
K0780.41051X	D	ball steel	1	M5	10	13	14,5	2	3	24,5	4	15	30	33,5	40	47	7,5	16	19,1/29,1/39,1/49,1	-
K0780.41061X	D	ball steel	1	M6	10	13	14,5	3	4	24,5	4	15	30	33,5	40	47	7,5	16	18,6/28,6/38,6/48,6	-
K0780.42061X	D	ball steel	2	M6	13,5	18	19,5	3	4	28,5	6,5	17,5	41,5	45,5	65	75	9,5	20	18,6/28,6/38,6/48,6/58,6	-
K0780.42081X	D	ball steel	2	M8	13,5	18	19,5	4,1	5,5	28,5	6,5	17,5	41,5	45,5	65	75	9,5	20	18,3/28,3/38,3/48,3/58,3	-
K0780.42101X	D	ball steel	2	M10	13,5	18	19,5	5,6	7	28,5	6,5	17,5	41,5	45,5	65	75	9,5	20	18,3/28,3/38,3/48,3/58,3	-
K0780.51051X	E	point steel	1	M5	10	13	14,5	3	-	24,5	4	15	30	33,5	40	47	7,5	16	20/30/40/50	0,5
K0780.51061X	E	point steel	1	M6	10	13	14,5	4	-	24,5	4	15	30	33,5	40	47	7,5	16	20/30/40/50	0,8
K0780.52061X	E	point steel	2	M6	13,5	18	19,5	4	-	28,5	6,5	17,5	41,5	45,5	65	75	9,5	20	20/30/40/50/60	0,8
K0780.52081X	E	point steel	2	M8	13,5	18	19,5	5,5	-	28,5	6,5	17,5	41,5	45,5	65	75	9,5	20	20/30/40/50/60	1
K0780.52101X	E	point steel	2	M10	13,5	18	19,5	7	-	28,5	6,5	17,5	41,5	45,5	65	75	9,5	20	20/30/40/50/60	1,5
K0780.61051X	F	half-dog steel	1	M5	10	13	14,5	3	-	24,5	4	15	30	33,5	40	47	7,5	16	20,5/30,5/40,5/50,5	-
K0780.61061X	F	half-dog steel	1	M6	10	13	14,5	4	-	24,5	4	15	30	33,5	40	47	7,5	16	20,8/30,8/40,8/50,8	-
K0780.62061X	F	half-dog steel	2	M6	13,5	18	19,5	4	-	28,5	6,5	17,5	41,5	45,5	65	75	9,5	20	20,8/30,8/40,8/50,8/60,8	-
K0780.62081X	F	half-dog steel	2	M8	13,5	18	19,5	5,5	-	28,5	6,5	17,5	41,5	45,5	65	75	9,5	20	20,8/30,8/40,8/50,8/60,8	-
K0780.62101X	F	half-dog steel	2	M10	13,5	18	19,5	7	-	28,5	6,5	17,5	41,5	45,5	65	75	9,5	20	20,9/30,9/40,9/50,9/60,9	-

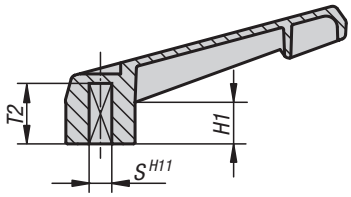
Clamping levers non-adjustable

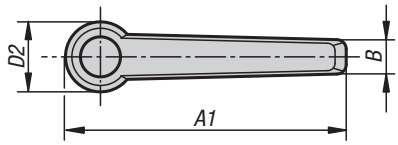












Material:
Handle fibreglass reinforced plastic.
Steel parts grade 5.8.

Version:
Handle black grey, steel parts blue passivated.

Sample order:
K0175.105X20 (include length L)

Note:
Non-adjustable clamping levers can be used for simple applications. Generally, there must be enough space so that the lever can be rotated through 360°.

On request:
Special versions.

Clamping levers non-adjustable

KIPP Non-adjustable clamping levers with internal thread

Order No.	Version	Size	X	T	D1	D2	H	H1	H2	A	A1	B
K0175.104000	internal thread	1	M4	10	13,8	14	17	11	27	40	47	8
K0175.105000	internal thread	1	M5	10	13,8	14	17	11	27	40	47	8
K0175.106000	internal thread	1	M6	10	13,8	14	17	11	27	40	47	8
K0175.208000	internal thread	2	M8	14	18,3	18,5	18	11	36,5	65	75	9
K0175.310000	internal thread	3	M10	14	21,8	22	22	14	45	80	91	11
K0175.412000	internal thread	4	M12	18	25,8	26	26	17	54	95	108	13
K0175.516000	internal thread	5	M16	18	30,8	31	31	21	63	110	126	16

KIPP Non-adjustable clamping levers with external thread

Order No.	Version	Size	X	D1	D2	H	H1	H2	A	A1	B	L
K0175.105X	external thread	1	M5	13,8	14	17	11	27	40	47	8	20
K0175.106X	external thread	1	M6	13,8	14	17	11	27	40	47	8	20
K0175.208X	external thread	2	M8	18,3	18,5	18	11	36,5	65	75	9	15/20/30
K0175.310X	external thread	3	M10	21,8	22	22	14	45	80	91	11	30
K0175.412X	external thread	4	M12	25,8	26	26	17	54	95	108	13	30
K0175.516X	external thread	5	M16	30,8	31	31	21	63	110	126	16	40

KIPP Non-adjustable clamping levers with reamed hole

Order No.	Version	Size	X	T1	D1	D2	H	H1	H2	A	A1	B
K0175.106001	reamed hole	1	6	10	13,8	14	17	11	27	40	47	8
K0175.208001	reamed hole	2	8	14	18,3	18,5	18	11	36,5	65	75	9
K0175.310001	reamed hole	3	10	14	21,8	22	22	14	45	80	91	11
K0175.412001	reamed hole	4	12	18	25,8	26	26	17	54	95	108	13
K0175.516001	reamed hole	5	16	18	30,8	31	31	21	63	110	126	16

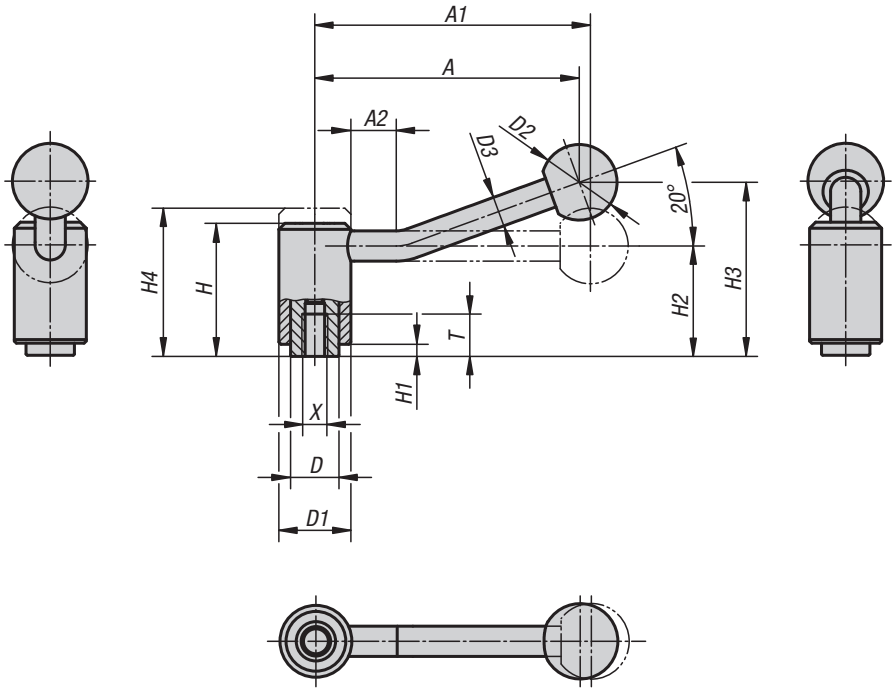
KIPP Non-adjustable clamping levers with square socket

Order No.	Version	Size	S	T2	D1	D2	H	H1	H2	A	A1	B
K0175.105002	square socket	1	5	13	13,8	14	17	11	27	40	47	8
K0175.206002	square socket	2	6	16	18,3	18,5	18	11	36,5	65	75	9
K0175.308002	square socket	3	8	18	21,8	22	22	14	45	80	91	11
K0175.410002	square socket	4	10	20	25,8	26	26	17	54	95	108	13
K0175.512002	square socket	5	12	26	30,8	31	31	21	63	110	126	16

Tension levers

internal thread





Material:
Steel parts grade 5.8.
Ball knob black plastic.

Version:
Plastic-coated with fine texture, black

Sample order:
K0108.1082

On request:
Other internal threads and special versions.
Dimensions “H1”, “A” and “A1” available in other lengths at extra charge.



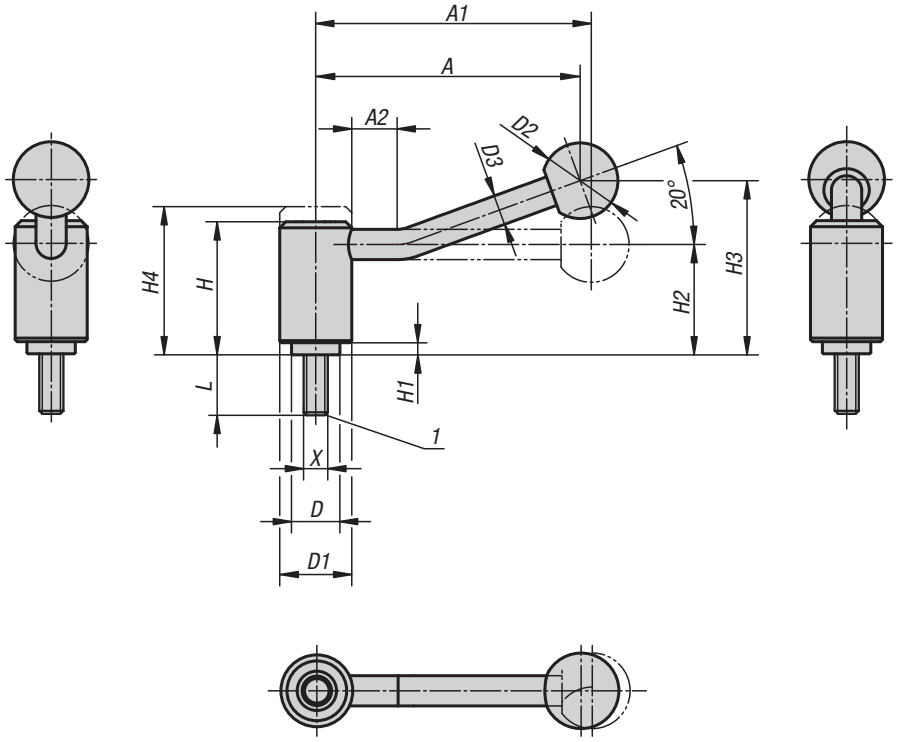
KIPP Tension levers with internal thread

Order No. 0°	Order No. 20°	Size	X	T	D	D1	D2	D3	H	H1	H2	H3	H4	A	A1	A2	No. of teeth
K0108.1082	**K0108.1081**	1	M8	14	16	24	25	10	44,5	4,5	37	-/58,5	49,5	-/88	92/-	-/15	22
K0108.1102	**K0108.1101**	1	M10	14	16	24	25	10	44,5	4,5	37	-/58,5	49,5	-/88	92/-	-/15	22
K0108.2102	**K0108.2101**	2	M10	17	19	28	32	12	51,5	5,5	42	-/68,5	57,5	-/106	111/-	-/15	24
K0108.2122	**K0108.2121**	2	M12	17	19	28	32	12	51,5	5,5	42	-/68,5	57,5	-/106	111/-	-/15	24
K0108.3122	**K0108.3121**	3	M12	23	23	33	32	13	58	6	47	-/81	65	-/128,5	134,5/-	-/15	26
K0108.3162	**K0108.3161**	3	M16	23	23	33	32	13	58	6	47	-/81	65	-/128,5	134,5/-	-/15	26
K0108.4162	**K0108.4161**	4	M16	27	30	41	32	13	68,5	7,5	56,5	-/89,5	76,5	-/128,5	134/-	-/15	36
K0108.4202	**K0108.4201**	4	M20	27	30	41	32	13	68,5	7,5	56,5	-/89,5	76,5	-/128,5	134/-	-/15	36
K0108.4242	**K0108.4241**	4	M24	27	30	41	32	13	68,5	7,5	56,5	-/89,5	76,5	-/128,5	134/-	-/15	36

Tension levers

external thread





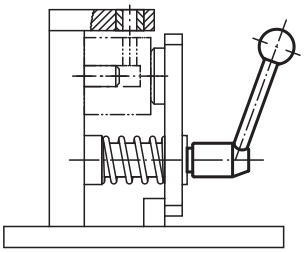
Material:
Steel parts grade 5.8.
Ball knob black plastic.

Version:
Plastic-coated with fine texture, black

Sample order:
K0108.1082X30 (include length L)

On request:
Other external threads, screw lengths and special versions.
Dimensions “H1”, “A” and “A1” available in other lengths at extra charge.

Drawing reference:
1) flat point DIN 78





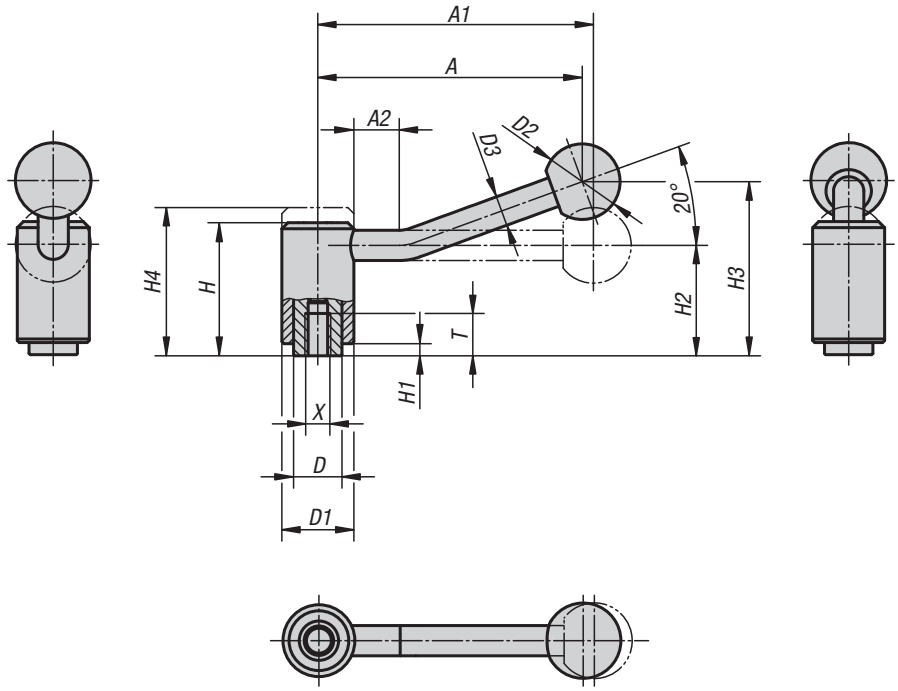
KIPP Tension levers with external thread

Order No. 0°	Order No. 20°	Size	X	D	D1	D2	D3	H	H1	H2	H3	H4	A	A1	A2	No. of teeth	L
K0108.1082X	**K0108.1081X**	1	M8	16	24	25	10	44,5	4,5	37	-/58,5	49,5	-/88	92/-	-/15	22	15/20/25/30/40/50/60
K0108.1102X	**K0108.1101X**	1	M10	16	24	25	10	44,5	4,5	37	-/58,5	49,5	-/88	92/-	-/15	22	15/20/25/30/40/50/60
K0108.1122X	**K0108.1121X**	1	M12	16	24	25	10	44,5	4,5	37	-/58,5	49,5	-/88	92/-	-/15	22	15/20/25/30/40/50/60
K0108.2122X	**K0108.2121X**	2	M12	19	28	32	12	51,5	5,5	42	-/68,5	57,5	-/106	111/-	-/15	24	20/25/30/40/50/60
K0108.3122X	**K0108.3121X**	3	M12	23	33	32	13	58	6	47	-/81	65	-/128,5	134,5/-	-/15	26	20/25/30/40/50/60/70/80/90
K0108.3162X	**K0108.3161X**	3	M16	23	33	32	13	58	6	47	-/81	65	-/128,5	134,5/-	-/15	26	20/25/30/40/50/60/70/80/90
K0108.4162X	**K0108.4161X**	4	M16	30	41	32	13	68,5	7,5	56,5	-/89,5	76,5	-/128,5	134/-	-/15	36	30/40/50/60/70/80/90
K0108.4202X	**K0108.4201X**	4	M20	30	41	32	13	68,5	7,5	56,5	-/89,5	76,5	-/128,5	134/-	-/15	36	30/40/50/60/70/80/90
K0108.4242X	**K0108.4241X**	4	M24	30	41	32	13	68,5	7,5	56,5	-/89,5	76,5	-/128,5	134/-	-/15	36	30/40/50/60/70/80/90

Tension levers

internal thread, stainless steel





Material:
Steel parts stainless steel 1.4305.
Ball knob black plastic.

Version:
Steel parts bright.
Ball knob polished.

Sample order:
K0109.1082

On request:
Other internal threads and special versions.
Dimensions “H1”, “A” and “A1” available in other lengths at extra charge.



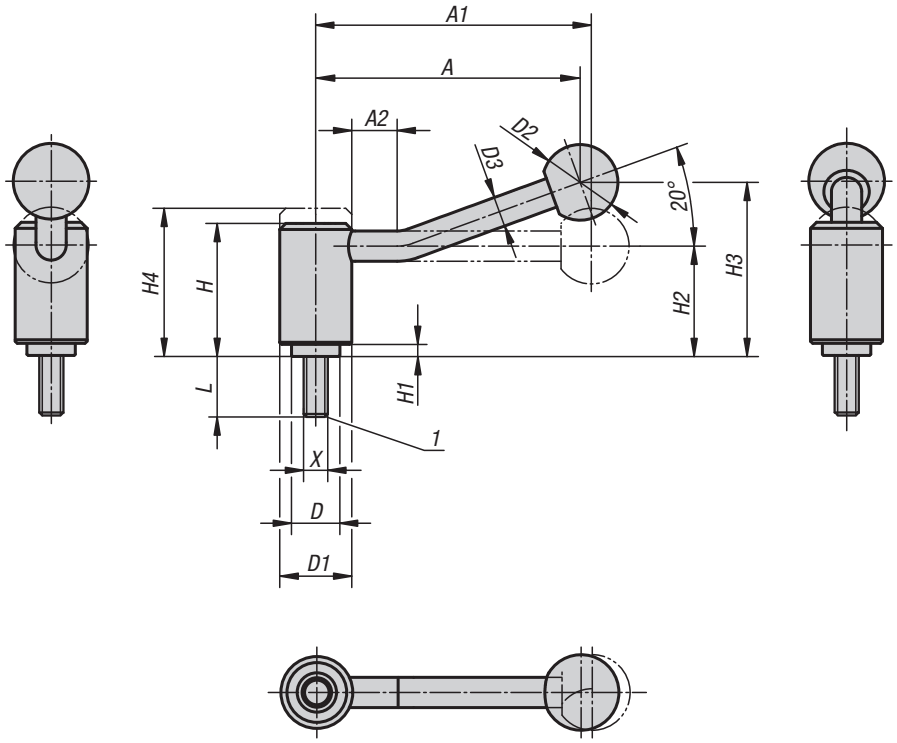
KIPP Tension levers, internal thread, stainless steel

Order No. 0°	Order No. 20°	Size	X	T	D	D1	D2	D3	H	H1	H2	H3	H4	A	A1	A2	No. of teeth
K0109.1082	**K0109.1081**	1	M8	14	16	24	25	10	44,5	4,5	37	-/58,5	49,5	-/88	92/-	-/15	22
K0109.1102	**K0109.1101**	1	M10	14	16	24	25	10	44,5	4,5	37	-/58,5	49,5	-/88	92/-	-/15	22
K0109.2102	**K0109.2101**	2	M10	17	19	28	32	12	51,5	5,5	42	-/68,5	57,5	-/106	111/-	-/15	24
K0109.2122	**K0109.2121**	2	M12	17	19	28	32	12	51,5	5,5	42	-/68,5	57,5	-/106	111/-	-/15	24
K0109.3122	**K0109.3121**	3	M12	23	23	33	32	13	58	6	47	-/81	65	-/128,5	134,5/-	-/15	26
K0109.3162	**K0109.3161**	3	M16	23	23	33	32	13	58	6	47	-/81	65	-/128,5	134,5/-	-/15	26
K0109.4162	**K0109.4161**	4	M16	27	30	41	32	13	68,5	7,5	56,5	-/89,5	76,5	-/128,5	134/-	-/15	36
K0109.4202	**K0109.4201**	4	M20	27	30	41	32	13	68,5	7,5	56,5	-/89,5	76,5	-/128,5	134/-	-/15	36

Tension levers

external thread, stainless steel





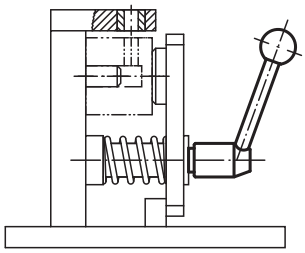
Material:
Steel parts stainless steel 1.4305.
Ball knob black plastic.

Version:
Steel parts bright.
Ball knob polished.

Sample order:
K0109.1082X30 (include length L)

On request:
Other external threads, screw lengths and special versions.
Dimensions “H1”, “A” and “A1” available in other lengths at extra charge.

Drawing reference:
1) flat point DIN 78





KIPP Tension levers, external thread, stainless steel

Order No. 0°	Order No. 20°	Size	X	D	D1	D2	D3	H	H1	H2	H3	H4	A	A1	A2	No. of teeth	L
K0109.1082X	K0109.1081X	1	M8	16	24	25	10	44,5	4,5	37	-/58,5	49,5	-/88	92/-	-/15	22	15/20/25/30/40/50/60
K0109.1102X	K0109.1101X	1	M10	16	24	25	10	44,5	4,5	37	-/58,5	49,5	-/88	92/-	-/15	22	15/20/25/30/40/50/60
K0109.1122X	K0109.1121X	1	M12	16	24	25	10	44,5	4,5	37	-/58,5	49,5	-/88	92/-	-/15	22	15/20/25/30/40/50/60
K0109.2122X	K0109.2121X	2	M12	19	28	32	12	51,5	5,5	42	-/68,5	57,5	-/106	111/-	-/15	24	20/25/30/40/50/60
K0109.3122X	K0109.3121X	3	M12	23	33	32	13	58	6	47	-/81	65	-/128,5	134,5/-	-/15	26	20/25/30/40/50/60/70/80/90
K0109.3162X	K0109.3161X	3	M16	23	33	32	13	58	6	47	-/81	65	-/128,5	134,5/-	-/15	26	20/25/30/40/50/60/70/80/90
K0109.4162X	K0109.4161X	4	M16	30	41	32	13	68,5	7,5	56,5	-/89,5	76,5	-/128,5	134/-	-/15	36	30/40/50/60/70/80/90
K0109.4202X	K0109.4201X	4	M20	30	41	32	13	68,5	7,5	56,5	-/89,5	76,5	-/128,5	134/-	-/15	36	30/40/50/60/70/80/90

Tension levers safety

internal thread



This product has been tested by the Technical Committee on Iron and Steel II.

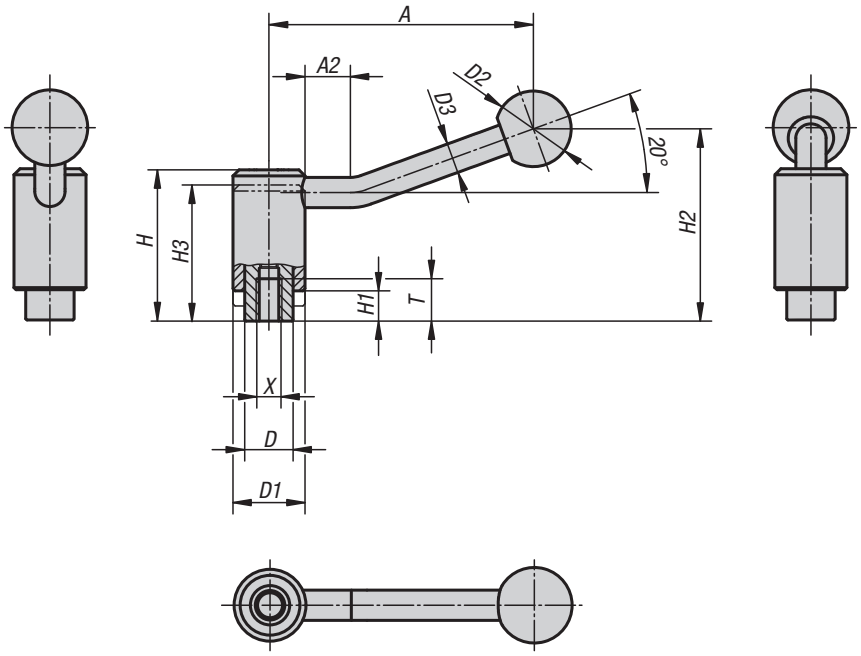
Material:
Steel parts grade 5.8.
Ball knob black plastic.

Version:
Plastic-coated with fine texture, black

Sample order:
K0112.1108

Method of operation:
To operate safety tension levers, press the handle down until the teeth are fully engaged. The object concerned can now be clamped or released. Spring pressure releases the locking mechanism immediately, thereby restoring the safety function (handle can be turned effortlessly).

On request:
Special versions.
Dimensions “H1” and “A” available in other lengths at extra charge.





KIPP Tension levers, safety, with internal thread

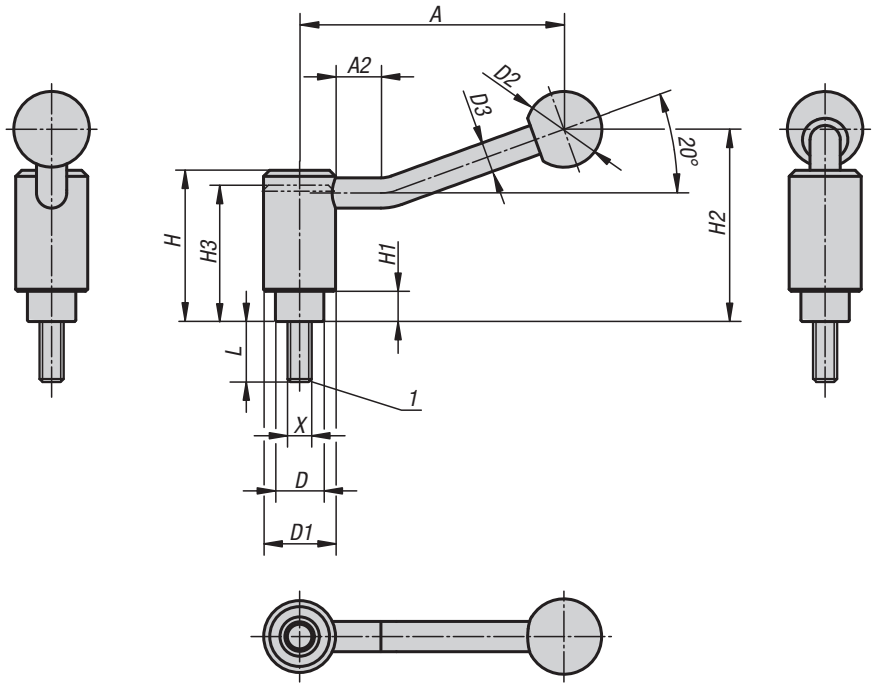
Order No.	Size	X	T	D	D1	D2	D3	H	H1	H2	H3	A	A2	No. of teeth
K0112.1108	1	M8	14	16	24	25	10	49,5	9,5	63,5	44,5	88	15	22
K0112.1110	1	M10	14	16	24	25	10	49,5	9,5	63,5	44,5	88	15	22
K0112.1210	2	M10	17	19	28	32	12	56,5	10,5	74	51	106	15	24
K0112.1212	2	M12	17	19	28	32	12	56,5	10,5	74	51	106	15	24
K0112.1312	3	M12	23	23	33	32	13	64,5	12,5	87,5	57,5	128,5	15	26
K0112.1316	3	M16	23	23	33	32	13	64,5	12,5	87,5	57,5	128,5	15	26

Tension levers safety

external thread



This product has been tested by the Technical Committee on Iron and Steel II.



Material:
Steel parts grade 5.8.
Ball knob black plastic.

Version:
Plastic-coated with fine texture, black

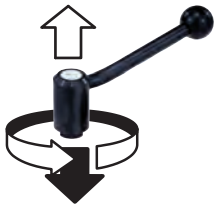
Sample order:
K0112.1108X30 (include length L)

Method of operation:
To operate safety tension levers, press the handle down until the teeth are fully engaged. The object concerned can now be clamped or released. Spring pressure releases the locking mechanism immediately, thereby restoring the safety function (handle can be turned effortlessly).

On request:
Other external threads, screw lengths and special versions.
Dimensions “H1” and “A” available in other lengths at extra charge.

Drawing reference:
1) flat point DIN 78

press to engage (safety function)



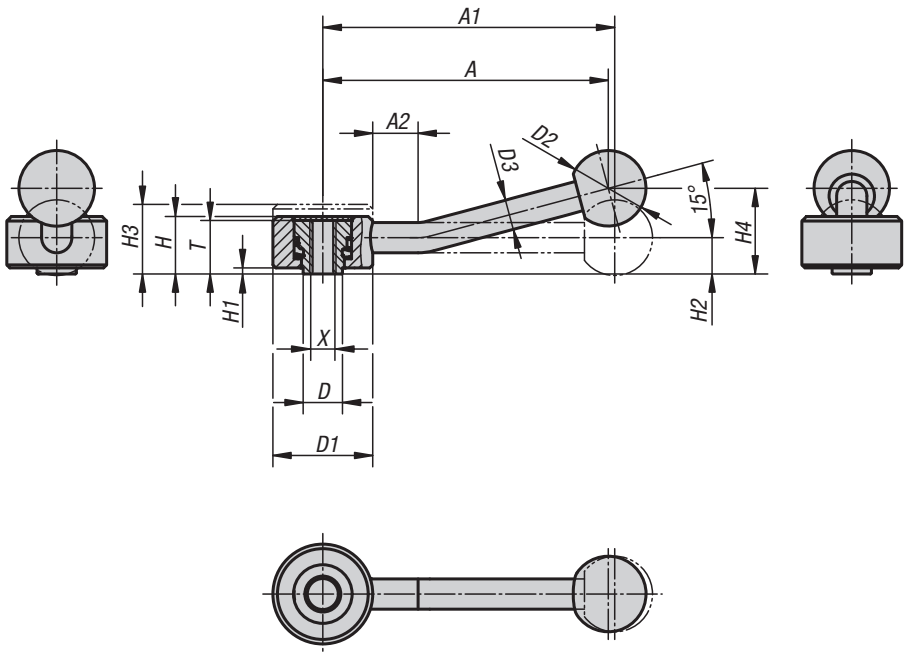
KIPP Tension levers, safety, with external thread

Order No.	Size	X	D	D1	D2	D3	H	H1	H2	H3	A	A2	No. of teeth	L
K0112.1108X20	1	M8	16	24	25	10	49,5	9,5	63,5	44,5	88	15	22	20/25/30/40/50/60
K0112.1110X20	1	M10	16	24	25	10	49,5	9,5	63,5	44,5	88	15	22	20/25/30/40/50/60
K0112.1112X20	1	M12	16	24	25	10	49,5	9,5	63,5	44,5	88	15	22	20/25/30/40/50/60
K0112.1212X20	2	M12	19	28	32	12	56,5	10,5	74	51	106	15	24	20/25/30/40/50/60
K0112.1312X25	3	M12	23	33	32	13	64,5	12,5	87,5	57,5	128,5	15	26	25/30/40/50/60
K0112.1316X25	3	M16	23	33	32	13	64,5	12,5	87,5	57,5	128,5	15	26	25/30/40/50/60

Tension levers flat

internal thread



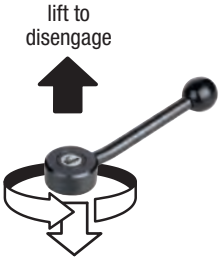


Material:
Steel parts grade 5.8.
Ball knob black plastic.

Version:
Black oxidised.

Sample order:
K0114.1061

On request:
Other internal threads and special versions.
Dimensions “H1”, “A” and “A1” available in other lengths at extra charge.



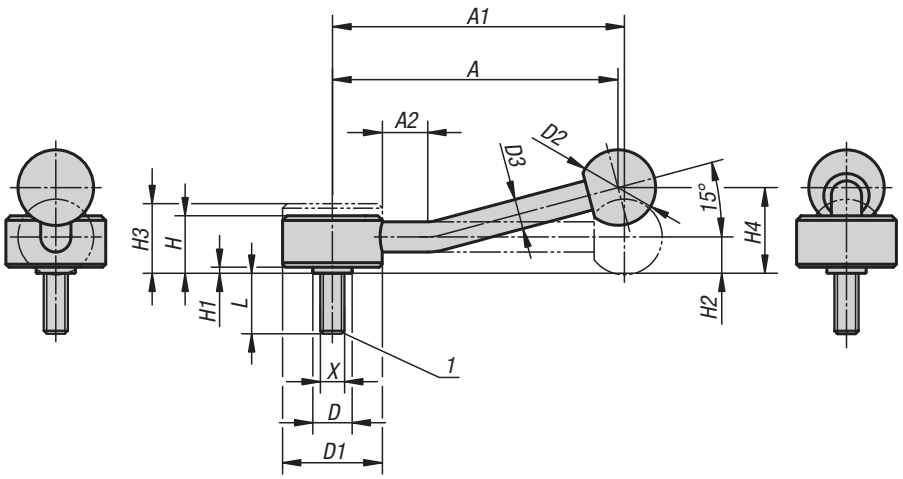
KIPP Tension levers, flat, with internal thread

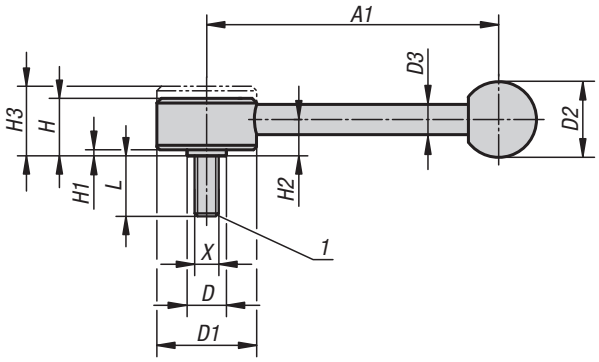
Order No. 0°	Order No. 15°	Size	X	T	D	D1	D2	D3	H	H1	H2	H3	H4	A	A1	A2	No. of teeth
K0114.1061	**K0114.1062**	1	M6	18	13,5	33	25	10	19	2	12	23	-/29	-/100	102/-	-/15	26
K0114.1081	**K0114.1082**	1	M8	18	13,5	33	25	10	19	2	12	23	-/29	-/100	102/-	-/15	26
K0114.2101	**K0114.2102**	2	M10	21	19	41	30	12	22	2	13,5	26	-/38	-/127	131/-	-/15	30
K0114.2121	**K0114.2122**	2	M12	21	19	41	30	12	22	2	13,5	26	-/38	-/127	131/-	-/15	30
K0114.3121	**K0114.3122**	3	M12	27	23	45	37	14	28	2	17	33	-/48	-/145	148/-	-/15	36
K0114.3161	**K0114.3162**	3	M16	27	23	45	37	14	28	2	17	33	-/48	-/145	148/-	-/15	36

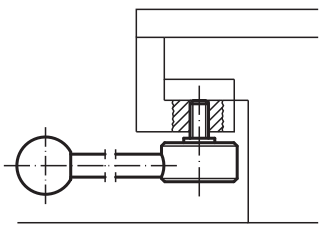
Tension levers flat

external thread









Material:
Steel parts grade 5.8.
Ball knob black plastic.

Version:
Black oxidised.

Sample order:
K0114.1081X30 (include length L)

On request:
Other external threads, screw lengths and special versions.
Dimensions “H1”, “A” and “A1” available in other lengths at extra charge.

Drawing reference:
1) flat point DIN 78



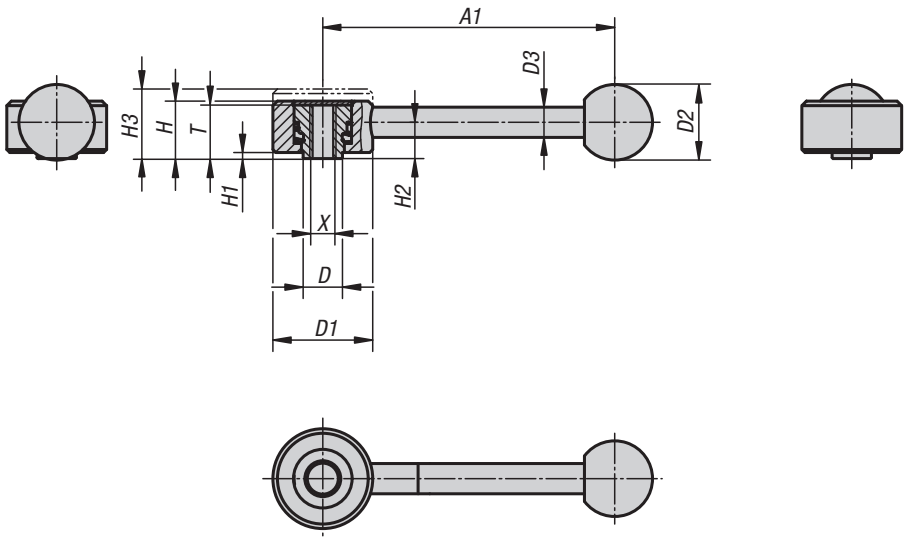
KIPP Tension levers, flat, external thread

Order No. 0°	Order No. 15°	Size	X	D	D1	D2	D3	H	H1	H2	H3	H4	A	A1	A2	No. of teeth	L
K0114.1081X	K0114.1082X	1	M8	13,5	33	25	10	19	2	12	23	-/29	-/100	102/-	-/15	20	15/20/25/30/40/50/60
K0114.1101X	K0114.1102X	1	M10	13,5	33	25	10	19	2	12	23	-/29	-/100	102/-	-/15	20	15/20/25/30/40/50/60
K0114.2101X	K0114.2102X	2	M10	19	41	30	12	22	2	13,5	26	-/38	-/127	131/-	-/15	24	20/25/30/40/50/60
K0114.2121X	K0114.2122X	2	M12	19	41	30	12	22	2	13,5	26	-/38	-/127	131/-	-/15	24	20/25/30/40/50/60
K0114.3121X	K0114.3122X	3	M12	23	45	37	14	28	2	17	33	-/48	-/145	148/-	-/15	26	20/25/30/40/50/60
K0114.3161X	K0114.3162X	3	M16	23	45	37	14	28	2	17	33	-/48	-/145	148/-	-/15	26	20/25/30/40/50/60

Tension levers flat

internal thread, stainless steel





Material:
Steel parts stainless steel 1.4305.
Ball knob black plastic.

Version:
Steel parts bright.

Sample order:
K0129.1081

On request:
Other internal threads and special versions.
Dimensions “H1” and “A1” available in other lengths at extra charge.



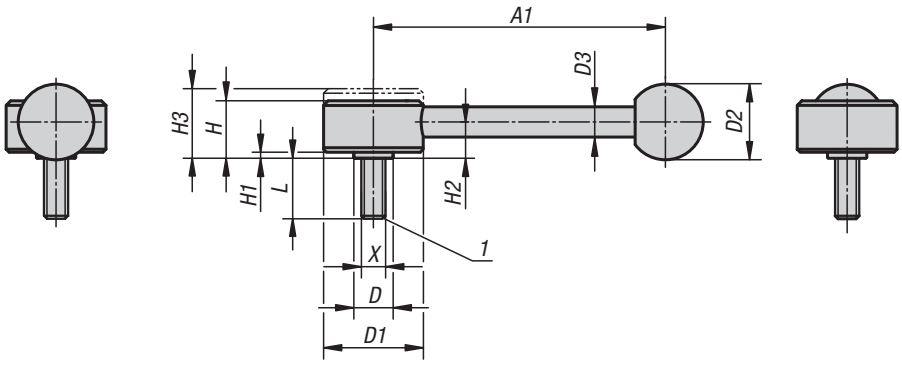
KIPP Tension levers, flat, internal thread, stainless steel

Order No.	Size	X	T	D	D1	D2	D3	H	H1	H2	H3	A1	No. of teeth
K0129.1081	1	M8	18	13,5	33	25	10	19	2	12	23	102	26
K0129.2101	2	M10	21	19	41	30	12	22	2	13,5	26	131	30
K0129.2121	2	M12	21	19	41	30	12	22	2	13,5	26	131	30
K0129.3161	3	M16	27	23	45	37	14	28	2	17	33	148	36

Tension levers flat

external thread, stainless steel





Material:
Steel parts stainless steel 1.4305.
Ball knob black plastic.

Version:
Steel parts bright.

Sample order:
K0129.1081X40 (include length L)

On request:
Other external threads, screw lengths and special versions.
Dimensions “H1” and “A1” available in other lengths at extra charge.

Drawing reference:
1) flat point DIN 78



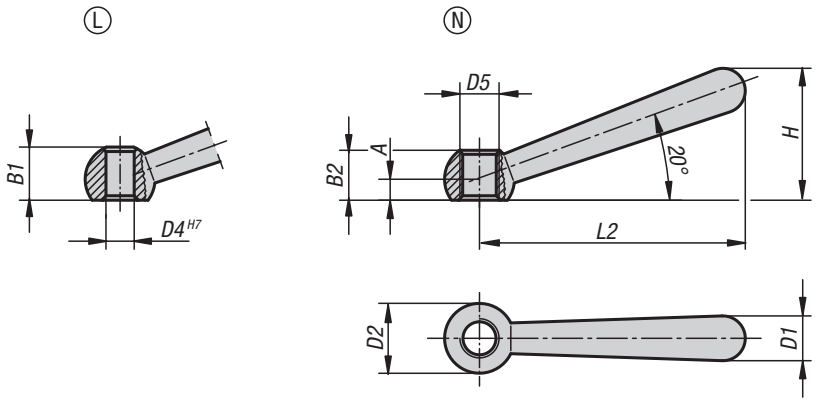
KIPP Tension levers flat, external thread, stainless steel

Order No.	Size	X	D	D1	D2	D3	H	H1	H2	H3	A1	No. of teeth	L
K0129.1081X	1	M8	13,5	33	25	10	19	2	12	23	102	26	30/40/50
K0129.2101X	2	M10	19	41	30	12	22	2	13,5	26	131	30	30/40/50/60
K0129.2121X	2	M12	19	41	30	12	22	2	13,5	26	131	30	30/40/50/60
K0129.3161X	3	M16	23	45	37	14	28	2	17	33	148	36	40/50/60

Levers

DIN 99





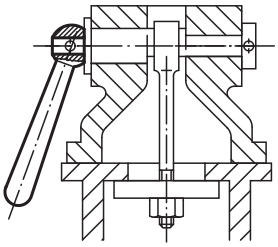
Material:
Steel.

Version:
Polished.

Sample order:
K0174.212

Note:
To fix the lever to another element, gluing is often more cost-effective than pinning.

Drawing reference:
Form L: with hole
Form N: with internal thread

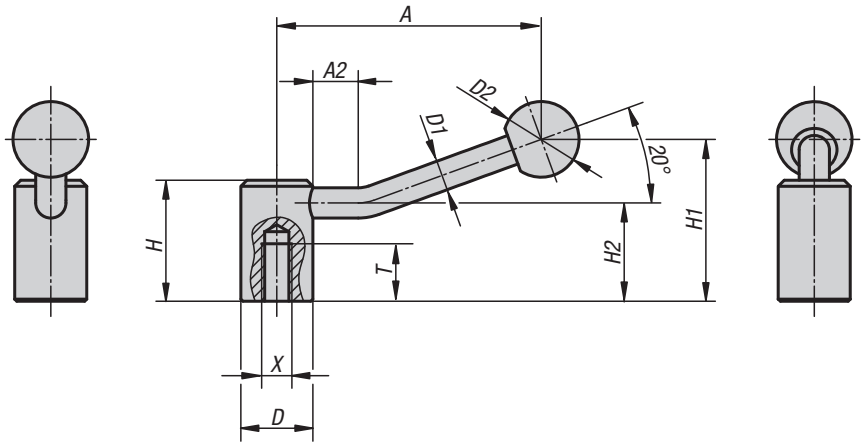


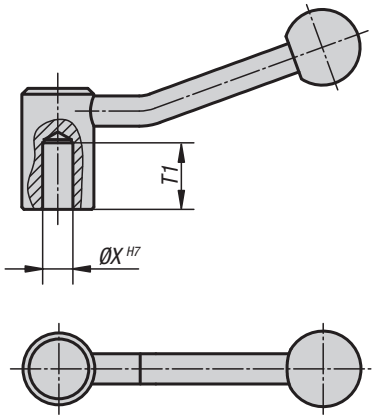
KIPP Levers DIN 99

Order No. Form L	Order No. Form N	A	D4	D5	B1	B2	D1	D2 ball	L2	H
K0174.106	**K0174.206**	4	6/-	-/M6	9,5/-	-/9,5	8	12	48	24
K0174.108	**K0174.208**	5	8/-	-/M8	12/-	-/12	10	16	60	30,5
K0174.110	**K0174.210**	6	10/-	-/M10	14,5/-	-/14,5	13	20	76	38
K0174.112	**K0174.212**	7,5	12/-	-/M12	18,5/-	-/18,5	16	25	95	47
K0174.116	**K0174.216**	10	16/-	-/M16	24/-	-/24	20	32	119	59,5
K0174.120	**K0174.220**	12,5	20/-	-/M20	30/-	-/30	25	40	152	75,5

Tension levers







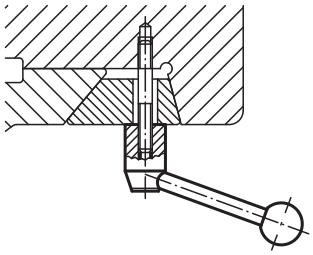
Material:
Steel parts grade 5.8.
Ball knob black plastic.

Version:
Black oxidised.

Sample order:
K0176.208

Note:
Tension levers can be used for simple clamping or control operations.
Where applicable, there must be enough space available so that the grip can be rotated 360°.

On request:
Other internal threads, reamed holes and special versions.
Dimension “A” available in other lengths at extra charge.

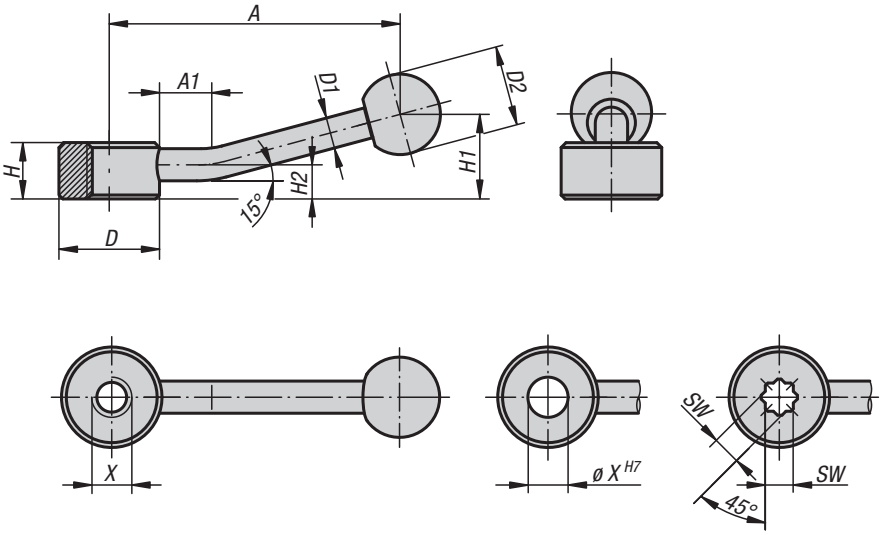


KIPP Tension levers

Order No.	Version	Size	X	T	T1	D	D1	D2	H	H1	H2	A	A2
K0176.208	internal thread	1	M8	18	-	24	10	25	40	52,5	32,5	84,5	15
K0176.210	internal thread	1	M10	19	-	24	10	25	40	52,5	32,5	84,5	15
K0176.212	internal thread	2	M12	20	-	28	12	32	46	61	36,5	100	15
K0176.216	internal thread	3	M16	23	-	33	13	32	52	72	41	121	15
K0176.220	internal thread	4	M20	26	-	41	13	32	61	80	49	123	15
K0176.108	reamed hole	1	8	-	22	24	10	25	40	52,5	32,5	84,5	15
K0176.110	reamed hole	1	10	-	22	24	10	25	40	52,5	32,5	84,5	15
K0176.112	reamed hole	2	12	-	25	28	12	32	46	61	36,5	100	15
K0176.114	reamed hole	2	14	-	25	28	12	32	46	61	36,5	100	15
K0176.116	reamed hole	3	16	-	28	33	13	32	52	72	41	121	15
K0176.118	reamed hole	3	18	-	28	33	13	32	52	72	41	121	15
K0176.120	reamed hole	4	20	-	32	41	13	32	61	80	49	123	15

Tension levers flat





Material:
Steel parts grade 5.8.
Ball knob black Duroplast PF 31

Version:
Black oxidised.

Sample order:
K0177.206

Note:
Flat tension levers can be used for simple clamping or control operations. Where applicable, there must be enough space available so that the grip can be rotated 360°.
The version with star socket is designed to allow a 45° change of position.

On request:
Other internal threads, reamed holes and star sockets. Dimension “A” available in other lengths at extra charge.

Tension levers flat

KIPP Tension levers flat with internal thread

Order No.	Version	Size	X	D	D1	D2	H	H1	H2	A	A1
K0177.206	internal thread	1	M6	25	8	20	14	22	8,5	75	15
K0177.208	internal thread	1	M8	25	8	20	14	22	8,5	75	15
K0177.210	internal thread	1	M10	25	8	20	14	22	8,5	75	15
K0177.212	internal thread	2	M12	33	10	25	17	27	10	100	15
K0177.216	internal thread	2	M16	33	10	25	17	27	10	100	15
K0177.220	internal thread	3	M20	41	12	30	20	36	11,5	128	15
K0177.224	internal thread	3	M24	41	12	30	20	36	11,5	128	15

KIPP Tension lever flat with reamed hole

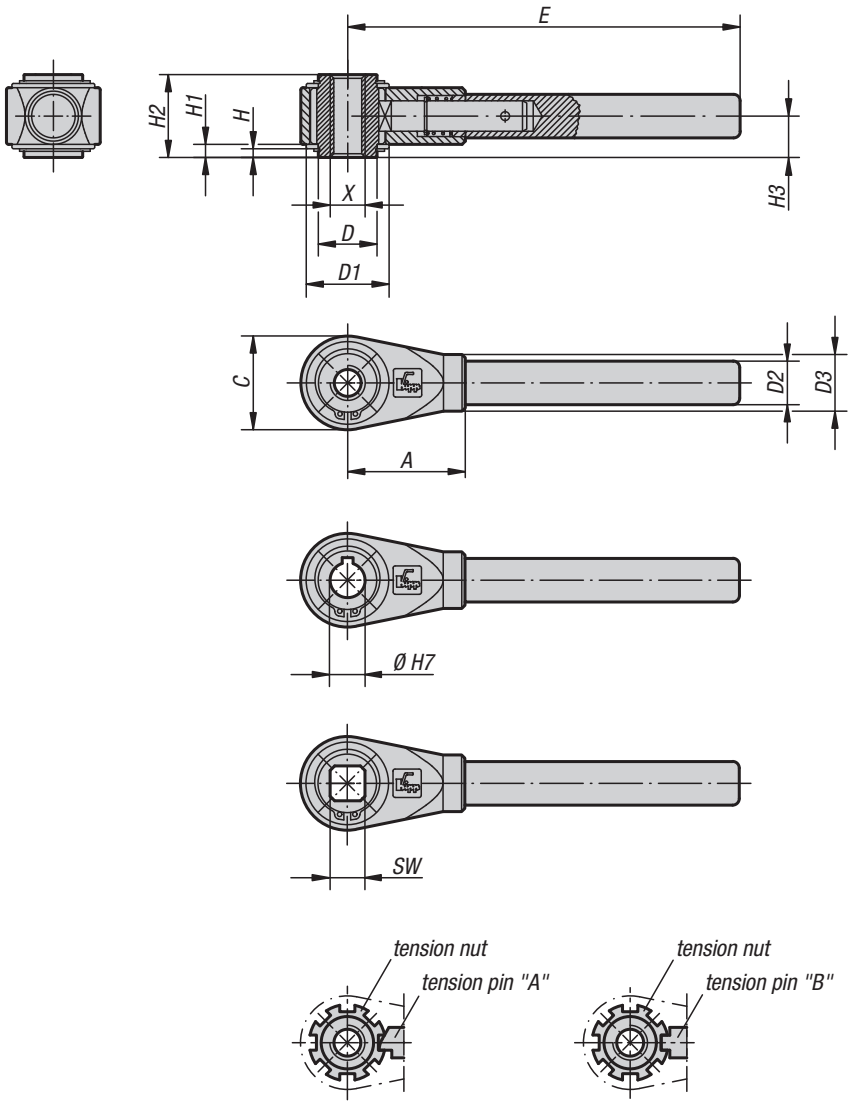
Order No.	Version	Size	X	D	D1	D2	H	H1	H2	A	A1
K0177.106	reamed hole	1	6	25	8	20	14	22	8,5	75	15
K0177.108	reamed hole	1	8	25	8	20	14	22	8,5	75	15
K0177.110	reamed hole	1	10	25	8	20	14	22	8,5	75	15
K0177.112	reamed hole	2	12	33	10	25	17	27	10	100	15
K0177.116	reamed hole	2	16	33	10	25	17	27	10	100	15
K0177.120	reamed hole	3	20	41	12	30	20	36	11,5	128	15
K0177.124	reamed hole	3	24	41	12	30	20	36	11,5	128	15

KIPP Tension lever flat with star socket

Order No.	Version	Size	SW	D	D1	D2	H	H1	H2	A	A1
K0177.305	star socket	1	5,5	25	8	20	14	22	8,5	75	15
K0177.307	star socket	1	7	25	8	20	14	22	8,5	75	15
K0177.309	star socket	2	9	33	10	25	17	27	10	100	15
K0177.311	star socket	2	11	33	10	25	17	27	10	100	15
K0177.314	star socket	3	14	41	12	30	20	36	11,5	128	15
K0177.319	star socket	3	19	41	12	30	20	36	11,5	128	15

Ratchet levers





Material:
Housing carbon steel, tension nut and tension pin case-hardened steel.

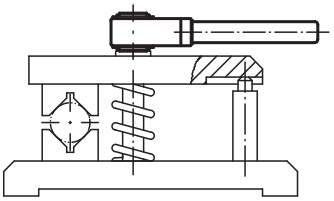
Version:
Black oxidised.
Matt-finished or high-polish chrome-plated versions available at extra charge.

Sample order:
K0128.316

Note:
Tension Pin A standard version (for ratchet action): Use for clamping and releasing in limited space and when considerable travel is involved. In order to change the tightening direction, the handle must be reversed by 180°.

Tension Pin B special version:
Use for clamping and releasing in limited space and when short travel is involved. The handle is not reversed in order to change the tightening direction. It must be pulled out before it can be engaged in the next slot.

On request:
Other internal threads, reamed holes and square sockets.
Dimension “E” available in other lengths at extra charge.
Special version: Tension pin B.



Ratchet levers

KIPP Ratchet levers with internal thread

Order No.	Size	X	D	D1	D2	D3	H	H1	H2	H3	C	A	E	No. of index slots
K0128.310	1	M10	22	33	17	22	3	4,5	31	15,5	36	48	150	7
K0128.312	1	M12	22	33	17	22	3	4,5	31	15,5	36	48	150	7
K0128.314	2	M14	27	38	20	26	4	6	38	19	43	54	180	8
K0128.316	2	M16	27	38	20	26	4	6	38	19	43	54	180	8
K0128.318	3	M18	35	45	24	30	4	6	42	21	51	70	230	8
K0128.320	3	M20	35	45	24	30	4	6	42	21	51	70	230	8
K0128.322	4	M22	42	56	28	35	4	6	47	23,5	61	80	300	9
K0128.324	4	M24	42	56	28	35	4	6	47	23,5	61	80	300	9
K0128.327	4	M27	42	56	28	35	4	6	47	23,5	61	80	300	9
K0128.330	5	M30	60	75	32	38	5	7,5	53	26,5	82	110	400	11
K0128.336	5	M36	60	75	32	38	5	7,5	53	26,5	82	110	400	11
K0128.342	5	M42	60	75	32	38	5	7,5	53	26,5	82	110	400	11

KIPP Ratchet levers with reamed hole

Order No.	Size	Reamed hole H7 with DIN 6885-1 keyway	D	D1	D2	D3	H	H1	H2	H3	C	A	E	No. of index slots
K0128.412	1	12	22	33	17	22	3	4,5	31	15,5	36	48	150	7
K0128.414	2	14	27	38	20	26	4	6	38	19	43	54	180	8
K0128.415	2	15	27	38	20	26	4	6	38	19	43	54	180	8
K0128.416	2	16	27	38	20	26	4	6	38	19	43	54	180	8
K0128.418	3	18	35	45	24	30	4	6	42	21	51	70	230	8
K0128.420	3	20	35	45	24	30	4	6	42	21	51	70	230	8
K0128.422	4	22	42	56	28	35	4	6	47	23,5	61	80	300	9
K0128.425	4	25	42	56	28	35	4	6	47	23,5	61	80	300	9
K0128.427	4	27	42	56	28	35	4	6	47	23,5	61	80	300	9
K0128.430	5	30	60	75	32	38	5	7,5	53	26,5	82	110	400	11
K0128.436	5	36	60	75	32	38	5	7,5	53	26,5	82	110	400	11

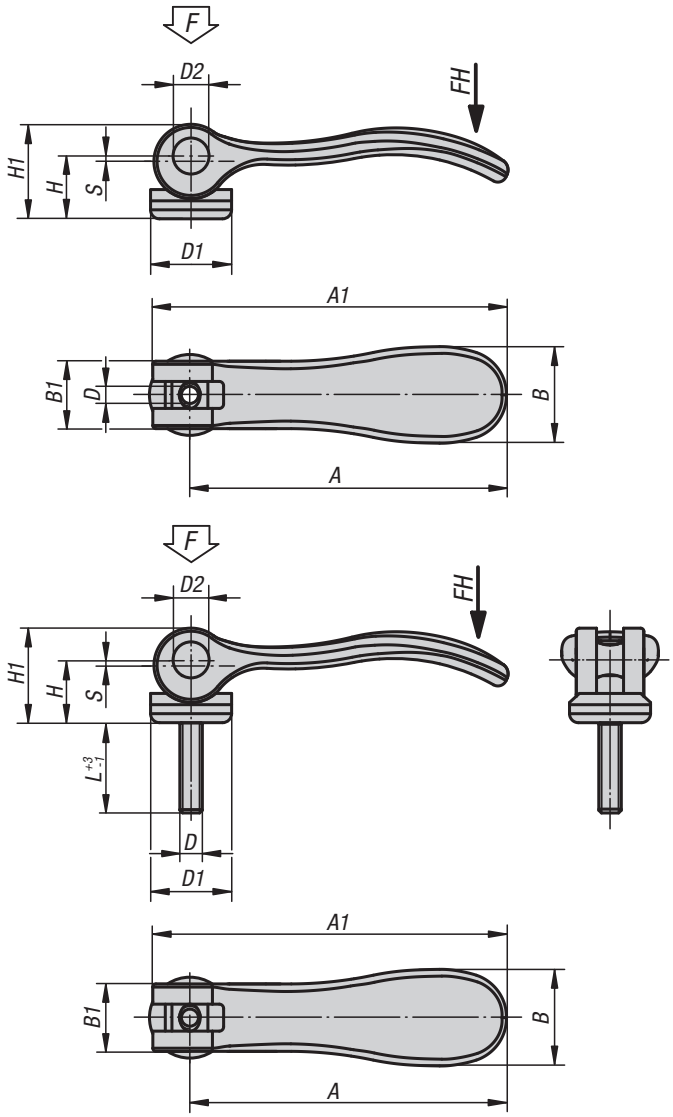
KIPP Ratchet levers with square socket

Order No.	Size	Square socket SW	D	D1	D2	D3	H	H1	H2	H3	C	A	E	No. of index slots
K0128.510	1	10	22	33	17	22	3	4,5	31	15,5	36	48	150	7
K0128.512	1	12	22	33	17	22	3	4,5	31	15,5	36	48	150	7
K0128.513	2	13	27	38	20	26	4	6	38	19	43	54	180	8
K0128.514	2	14	27	38	20	26	4	6	38	19	43	54	180	8
K0128.517	3	17	35	45	24	30	4	6	42	21	51	70	230	8
K0128.519	4	19	42	56	28	35	4	6	47	23,5	61	80	300	9
K0128.520	4	20	42	56	28	35	4	6	47	23,5	61	80	300	9
K0128.522	4	22	42	56	28	35	4	6	47	23,5	61	80	300	9
K0128.524	4	24	42	56	28	35	4	6	47	23,5	61	80	300	9
K0128.530	5	30	60	75	32	38	5	7,5	53	26,5	82	110	400	11
K0128.532	5	32	60	75	32	38	5	7,5	53	26,5	82	110	400	11

Cam levers

internal and external thread, steel or stainless steel





Material:
Handles cast aluminum EN AC-46200.
Thrust washer plastic PA 66 GF 35-X fibreglass reinforced.
Hinge pin stainless steel 1.4305.
Studs and washer steel grade 5.8 or stainless steel 1.4305.

Version:
Handles fine structured powder-coated, black or red RAL 3003.
Thrust washer black.
Hinge pin bright.
Studs and washer blue passivated steel or bright stainless steel.

Sample order:
K0005.101105X20 (include length L)

Note:
Plastics are subject to creeping under load (retardation).

Cam levers

internal and external thread, steel or stainless steel

KIPP Cam levers with internal thread, lever black

Order No. steel	Order No. stainless steel	D	D1	D2	B	B1	H	H1	A	A1	Stroke S	Clamping force F (kN)	Hand force FH N
K0005.9501103	K0005.9511103	M3	12	6	14,4	11,5	9	13	36,2	41,7	1	1,5	90
K0005.9501104	K0005.9511104	M4	12	6	14,4	11,5	9	13	36,2	41,7	1	1,5	90
K0005.0501104	K0005.0511104	M4	15,4	8	18	13	11,2	17	52,3	59,1	1	2,5	100
K0005.0501105	K0005.0511105	M5	15,4	8	18	13	11,2	17	52,3	59,1	1	2,5	100
K0005.1501105	K0005.1511105	M5	18,1	9	21,5	15	14,5	22	70,4	79,2	1,2	4	120
K0005.1501106	K0005.1511106	M6	18,1	9	21,5	15	14,5	22	70,4	79,2	1,2	4	120
K0005.2501108	K0005.2511108	M8	27,1	11	33,3	24	18	28,5	96	108	1,5	8	350

KIPP Cam levers with internal thread, grip red

Order No. steel	Order No. stainless steel	D	D1	D2	B	B1	H	H1	A	A1	Stroke S	Clamping force F (kN)	Hand force FH N
K0005.9501403	K0005.9511403	M3	12	6	14,4	11,5	9	13	36,2	41,7	1	1,5	90
K0005.9501404	K0005.9511404	M4	12	6	14,4	11,5	9	13	36,2	41,7	1	1,5	90
K0005.0501404	K0005.0511404	M4	15,4	8	18	13	11,2	17	52,3	59,1	1	2,5	100
K0005.0501405	K0005.0511405	M5	15,4	8	18	13	11,2	17	52,3	59,1	1	2,5	100
K0005.1501405	K0005.1511405	M5	18,1	9	21,5	15	14,5	22	70,4	79,2	1,2	4	120
K0005.1501406	K0005.1511406	M6	18,1	9	21,5	15	14,5	22	70,4	79,2	1,2	4	120
K0005.2501408	K0005.2511408	M8	27,1	11	33,3	24	18	28,5	96	108	1,5	8	350

KIPP Cam levers with external thread, grip black

Order No. steel	Order No. stainless steel	D	D1	D2	B	B1	H	H1	A	A1	L	Stroke S	Clamping force F (kN)	Hand force FH N
K0005.9501103X	K0005.9511103X	M3	12	6	14,4	11,5	9	13	36,2	41,7	10/15/30	1	1,5	90
K0005.9501104X	K0005.9511104X	M4	12	6	14,4	11,5	9	13	36,2	41,7	10/15/30	1	1,5	90
K0005.0501104X	K0005.0511104X	M4	15,4	8	18	13	11,2	17	52,3	59,1	15/20/30	1	2,5	100
K0005.0501105X	K0005.0511105X	M5	15,4	8	18	13	11,2	17	52,3	59,1	20/30/40/50	1	2,5	100
K0005.1501105X	K0005.1511105X	M5	18,1	9	21,5	15	14,5	22	70,4	79,2	20/30/40/50	1,2	4	120
K0005.1501106X	K0005.1511106X	M6	18,1	9	21,5	15	14,5	22	70,4	79,2	20/30/40/50	1,2	4	120
K0005.2501108X	K0005.2511108X	M8	27,1	11	33,3	24	18	28,5	96	108	25/30/40/50	1,5	8	350
K0005.2501110X	K0005.2511110X	M10	27,1	11	33,3	24	18	28,5	96	108	25/30/40/50	1,5	8	350

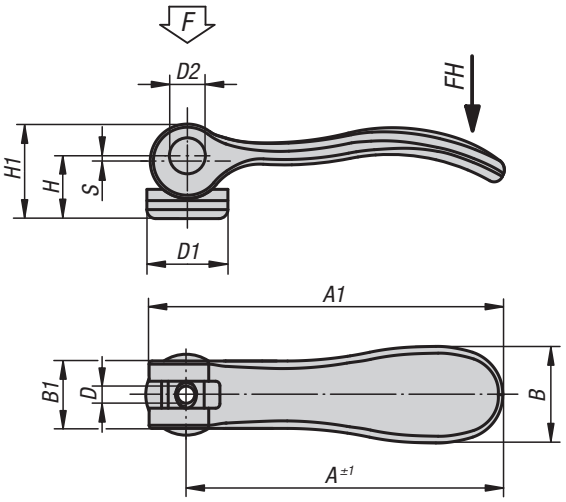
KIPP Cam levers with external thread, grip red

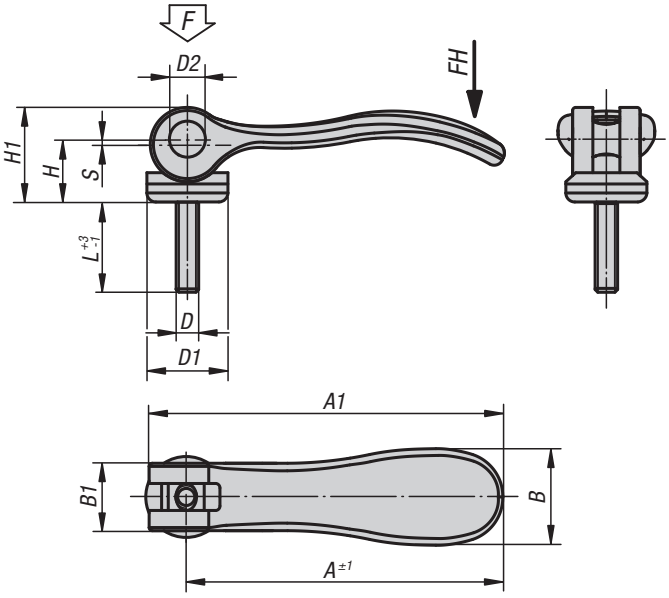
Order No. steel	Order No. stainless steel	D	D1	D2	B	B1	H	H1	A	A1	L	Stroke S	Clamping force F (kN)	Hand force FH N
K0005.9501403X	K0005.9511403X	M3	12	6	14,4	11,5	9	13	36,2	41,7	10/15/30	1	1,5	90
K0005.9501404X	K0005.9511404X	M4	12	6	14,4	11,5	9	13	36,2	41,7	10/15/30	1	1,5	90
K0005.0501404X	K0005.0511404X	M4	15,4	8	18	13	11,2	17	52,3	59,1	15/20/30	1	2,5	100
K0005.0501405X	K0005.0511405X	M5	15,4	8	18	13	11,2	17	52,3	59,1	20/30/40/50	1	2,5	100
K0005.1501405X	K0005.1511405X	M5	18,1	9	21,5	15	14,5	22	70,4	79,2	20/30/40/50	1,2	4	120
K0005.1501406X	K0005.1511406X	M6	18,1	9	21,5	15	14,5	22	70,4	79,2	20/30/40/50	1,2	4	120
K0005.2501408X	K0005.2511408X	M8	27,1	11	33,3	24	18	28,5	96	108	25/30/40/50	1,5	8	350
K0005.2501410X	K0005.2511410X	M10	27,1	11	33,3	24	18	28,5	96	108	25/30/40/50	1,5	8	350

Cam levers

internal and external thread, steel







Material:
Handle steel 1.0401.
Thrust washer plastic PA 66 GF 35-X fibreglass reinforced.
Hinge pin stainless steel 1.4305.
Stud and washer steel, grade 5.8.

Version:
Handle, stud and washer blue passivated.
Thrust washer black.
Hinge pin bright.

Sample order:
K0788.1502205

Note:
Plastics are subject to creeping under load (retardation).

Cam levers

internal and external thread, steel

KIPP Cam levers with internal thread, steel

Order No.	Size	D	D1	D2	B	B1	H	H1	A	A1	Stroke S	Clamping force F (kN)	Hand force FH N
K0788.1502205	1	M5	18,1	9	21,5	15	14,5	22	70,4	79,2	1,2	4	120
K0788.1502206	1	M6	18,1	9	21,5	15	14,5	22	70,4	79,2	1,2	4	120
K0788.2502208	2	M8	27,1	11	33,2	24	18	28,5	96	108	1,5	8	350

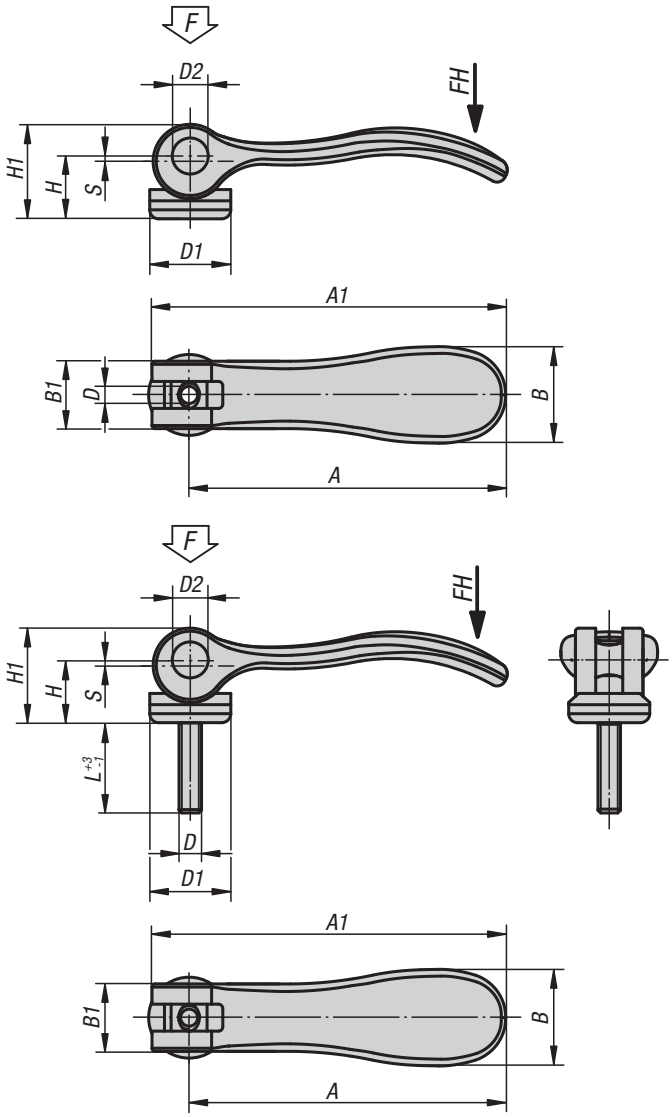
KIPP Cam levers with external thread, steel

Order No.	Size	D	D1	D2	B	B1	H	H1	A	A1	L	Stroke S	Clamping force F (kN)	Hand force FH N
K0788.1502205X	1	M5	18,1	9	21,5	15	14,5	22	70,4	79,2	20/30/40/50	1,2	4	120
K0788.1502206X	1	M6	18,1	9	21,5	15	14,5	22	70,4	79,2	20/30/40/50	1,2	4	120
K0788.2502208X	2	M8	27,1	11	33,2	24	18	28,5	96	108	25/30/40/50	1,5	8	350
K0788.2502210X	2	M10	27,1	11	33,2	24	18	28,5	96	108	25/30/40/50	1,5	8	350

Cam levers

internal and external thread, stainless steel





Material:
Handles 1.4308.
Thrust washer plastic PA 66 GF 35-X fibreglass reinforced.
Hinge pin, washer and screw 1.4305.

Version:
Handle electropolished or blasted.
Thrust washer black.
Hinge pin, washer and screw bright.

Sample order:
K0645.1512005X20 (include length L)

Note:
Plastics are subject to creeping under load (retardation).

Cam levers

internal and external thread, stainless steel

KIPP Cam levers with internal thread, stainless steel

Order No.	Surface	D	D1	D2	B	B1	H	H1	A	A1	Stroke S	Clamping force F (kN)	Hand force FH N
K0645.9512003	electropolished	M3	12	6	14,4	11,5	9	13	36,2	41,7	1	1,5	90
K0645.9512004	electropolished	M4	12	6	14,4	11,5	9	13	36,2	41,7	1	1,5	90
K0645.0512004	electropolished	M4	15,4	8	18	13	11,2	17	52,3	59,1	1	2,5	100
K0645.0512005	electropolished	M5	15,4	8	18	13	11,2	17	52,3	59,1	1	2,5	100
K0645.1512005	electropolished	M5	18,1	9	21,5	15	14,5	22	70,4	79,2	1,2	4	120
K0645.1512006	electropolished	M6	18,1	9	21,5	15	14,5	22	70,4	79,2	1,2	4	120
K0645.2512008	electropolished	M8	27,1	11	33,3	24	18	28,5	96	108	1,5	8	350
K0645.9512303	blasted	M3	12	6	14,4	11,5	9	13	36,2	41,7	1	1,5	90
K0645.9512304	blasted	M4	12	6	14,4	11,5	9	13	36,2	41,7	1	1,5	90
K0645.0512304	blasted	M4	15,4	8	18	13	11,2	17	52,3	59,1	1	2,5	100
K0645.0512305	blasted	M5	15,4	8	18	13	11,2	17	52,3	59,1	1	2,5	100
K0645.1512305	blasted	M5	18,1	9	21,4	15	14,5	22	70,4	79,2	1,2	4	120
K0645.1512306	blasted	M6	18,1	9	21,4	15	14,5	22	70,4	79,2	1,2	4	120
K0645.2512308	blasted	M8	27,1	11	33,3	24	18	28,5	96	108	1,5	8	350

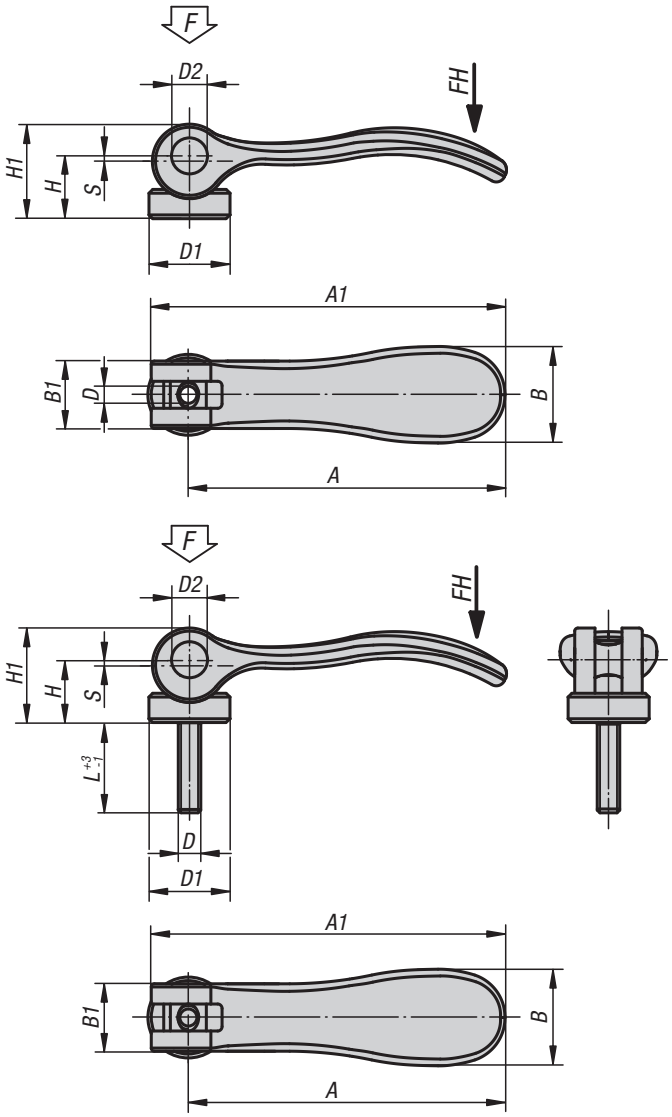
KIPP Cam levers with external thread, stainless steel

Order No.	Surface	D	D1	D2	B	B1	H	H1	A	A1	L	Stroke S	Clamping force F (kN)	Hand force FH N
K0645.9512003X	electropolished	M3	12	6	14,4	11,5	9	13	36,2	41,7	10/15/30	1	1,5	90
K0645.9512004X	electropolished	M4	12	6	14,4	11,5	9	13	36,2	41,7	10/15/30	1	1,5	90
K0645.0512004X	electropolished	M4	15,4	8	18	13	11,2	17	52,3	59,1	15/20/30	1	2,5	100
K0645.0512005X	electropolished	M5	15,4	8	18	13	11,2	17	52,3	59,1	20/30/40/50	1	2,5	100
K0645.1512005X	electropolished	M5	18,1	9	21,5	15	14,5	22	70,4	79,5	20/30/40/50	1,2	4	120
K0645.1512006X	electropolished	M6	18,1	9	21,5	15	14,5	22	70,4	79,5	20/30/40/50	1,2	4	120
K0645.2512008X	electropolished	M8	27,1	11	33,3	24	18	28,5	96	108	25/30/40/50	1,5	8	350
K0645.2512010X	electropolished	M10	27,1	11	33,3	24	18	28,5	96	108	25/30/40/50	1,5	8	350
K0645.9512303X	blasted	M3	12	6	14,4	11,5	9	13	36,2	41,7	10/15/30	1	1,5	90
K0645.9512304X	blasted	M4	12	6	14,4	11,5	9	13	36,2	41,7	10/15/30	1	1,5	90
K0645.0512304X	blasted	M4	15,4	8	18	13	11,2	17	52,3	59,1	15/20/30	1	2,5	100
K0645.0512305X	blasted	M5	15,4	8	18	13	11,2	17	52,3	59,1	20/30/40/50	1	2,5	100
K0645.1512305X	blasted	M5	18,1	9	21,4	15	14,5	22	70,4	79,2	20/30/40/50	1,2	4	120
K0645.1512306X	blasted	M6	18,1	9	21,4	15	14,5	22	70,4	79,2	20/30/40/50	1,2	4	120
K0645.2512308X	blasted	M8	27,1	11	33,3	24	18	28,5	96	108	25/30/40/50	1,5	8	350
K0645.2512310X	blasted	M10	27,1	11	33,3	24	18	28,5	96	108	25/30/40/50	1,5	8	350

Cam levers, stainless steel

with internal or external thread, thrust washer stainless steel





Material:
Handle 1.4308.
Thrust washer 1.4034 stainless steel, hardened.
Hinge pin and stud 1.4305 stainless steel.

Version:
Handle electropolished or blasted.
Thrust washer, hinge pin and screw bright.

Sample order:
K0645.0541005X20 (include length L)

Note:
The thrust washer face is lightly greased before delivery.
The grease is FDA conform and is suitable for use in the foodstuff and pharmaceutical industries.

Cam levers, stainless steel

with internal or external thread, thrust washer stainless steel

KIPP Cam levers, stainless steel, with internal thread, thrust washer stainless steel

Order No. electropolished	Order No. blasted	D	D1	D2	B	B1	H	H1	A	A1	Stroke S	Clamping force F (kN)	Hand force FH N
K0645.9541003	**K0645.9541303**	M3	12	6	14,4	11,5	9	13,5	36,2	41,7	1	1,5	90
K0645.9541004	**K0645.9541304**	M4	12	6	14,4	11,5	9	13,5	36,2	41,7	1	1,5	90
K0645.0541004	**K0645.0541304**	M4	15,4	8	18	13	11,4	17,2	52,3	59,1	1	2,5	100
K0645.0541005	**K0645.0541305**	M5	15,4	8	18	13	11,4	17,2	52,3	59,1	1	2,5	100
K0645.1541005	**K0645.1541305**	M5	18	9	21,5	15	14,7	22	70,4	79,2	1,2	4	120
K0645.1541006	**K0645.1541306**	M6	18	9	21,5	15	14,7	22	70,4	79,2	1,2	4	120
K0645.2541008	**K0645.2541308**	M8	27	11	33,3	24	18,3	28,8	96	108	1,5	8	350

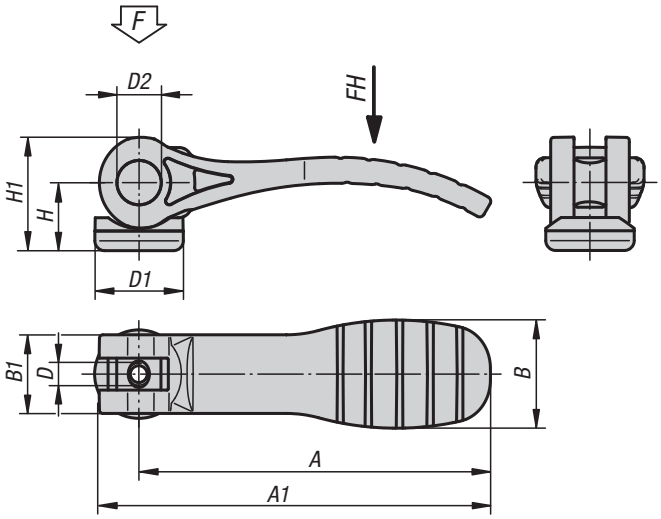
KIPP Cam levers, stainless steel, with external thread, thrust washer stainless steel

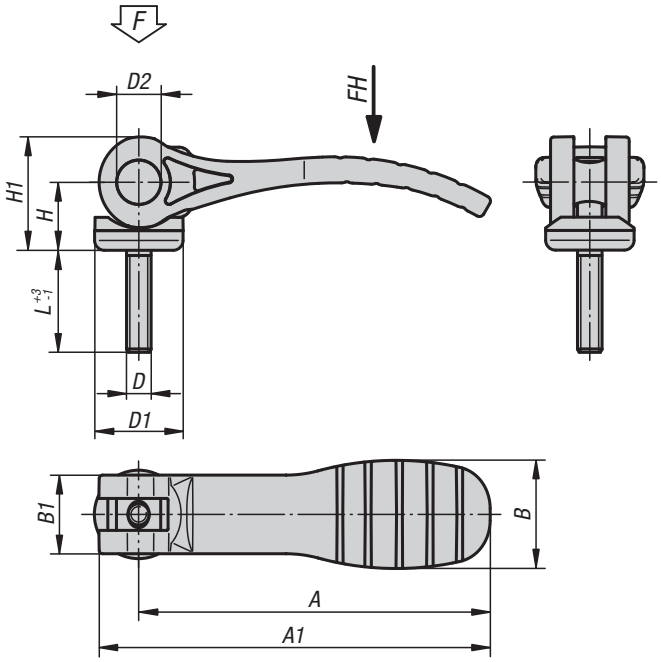
Order No. electropolished	Order No. blasted	D	D1	D2	B	B1	H	H1	A	A1	L	Stroke S	Clamping force F (kN)	Hand force FH N
K0645.9541003X	**K0645.9541303X**	M3	12	6	14,4	11,5	9	13,5	36,2	41,7	10/15/30	1	1,5	90
K0645.9541004X	**K0645.9541304X**	M4	12	6	14,4	11,5	9	13,5	36,2	41,7	10/15/30	1	1,5	90
K0645.0541004X	**K0645.0541304X**	M4	15,4	8	18	13	11,4	17,2	52,3	59,1	15/20/30	1	2,5	100
K0645.0541005X	**K0645.0541305X**	M5	15,4	8	18	13	11,4	17,2	52,3	59,1	20/30/40/50	1	2,5	100
K0645.1541005X	**K0645.1541305X**	M5	18	9	21,5	15	14,7	22	70,4	79,5	20/30/40/50	1,2	4	120
K0645.1541006X	**K0645.1541306X**	M6	18	9	21,5	15	14,7	22	70,4	79,5	20/30/40/50	1,2	4	120
K0645.2541008X	**K0645.2541308X**	M8	27	11	33,3	24	18,3	28,8	96	108	25/30/40/50	1,5	8	350
K0645.2541010X	**K0645.2541310X**	M10	27	11	33,3	24	18,3	28,8	96	108	25/30/40/50	1,5	8	350

Cam levers with plastic handle

internal and external thread, steel or stainless steel







Material:
Handles and thrust washer plastic PA 66 fibreglass reinforced.
Hinge pins stainless steel 1.4305.
Studs and washer steel grade 5.8 or stainless steel 1.4305.

Version:
Grip black or traffic red RAL3020.
Thrust washer black.
Hinge pin blank.
Stud and washer blue passivated or bright stainless steel.

Sample order:
K0646.1521105X20 (include length L)

Note:
Plastics are subject to creeping under load (retardation), this can cause reduced clamping force.

Cam levers with plastic handle

internal and external thread, steel or stainless steel

KIPP Cam levers with black plastic grip and internal thread

Order No. steel	Order No. stainless steel	D	D1	D2	B	B1	H	H1	A	A1	Travel	Clamping force F (kN)	Hand force FH N
K0646.1521105	**K0646.1531105**	M5	18,1	9	22	16	14	23,4	71,5	79,6	1,15	2,5	125
K0646.1521106	**K0646.1531106**	M6	18,1	9	22	16	14	23,4	71,5	79,6	1,15	2,5	125
K0646.2521108	**K0646.2531108**	M8	27,1	11	33	24,2	16,2	27,7	100	110	1,5	5	170

KIPP Cam levers with red plastic grip and internal thread

Order No. steel	Order No. stainless steel	D	D1	D2	B	B1	H	H1	A	A1	Travel	Clamping force F (kN)	Hand force FH N
K0646.15218405	**K0646.15318405**	M5	18,1	9	22	16	14	23,4	71,5	79,6	1,15	2,5	125
K0646.15218406	**K0646.15318406**	M6	18,1	9	22	16	14	23,4	71,5	79,6	1,15	2,5	125
K0646.25218408	**K0646.25318408**	M8	27,1	11	33	24,2	16,2	27,7	100	110	1,5	5	170

KIPP Cam levers with black plastic grip and external thread

Order No. steel	Order No. stainless steel	D	D1	D2	B	B1	H	H1	A	A1	L	Travel	Clamping force F (kN)	Hand force FH N
K0646.1521105X	**K0646.1531105X**	M5	18,1	9	22	16	14	23,4	71,5	79,6	20/30/40/50	1,15	2,5	125
K0646.1521106X	**K0646.1531106X**	M6	18,1	9	22	16	14	23,4	71,5	79,6	20/30/40/50	1,15	2,5	125
K0646.2521108X	**K0646.2531108X**	M8	27,1	11	33	24,2	16,2	27,7	100	110	25/30/40/50	1,5	5	170
K0646.2521110X	**K0646.2531110X**	M10	27,1	11	33	24,2	16,2	27,7	100	110	25/30/40/50	1,5	5	170

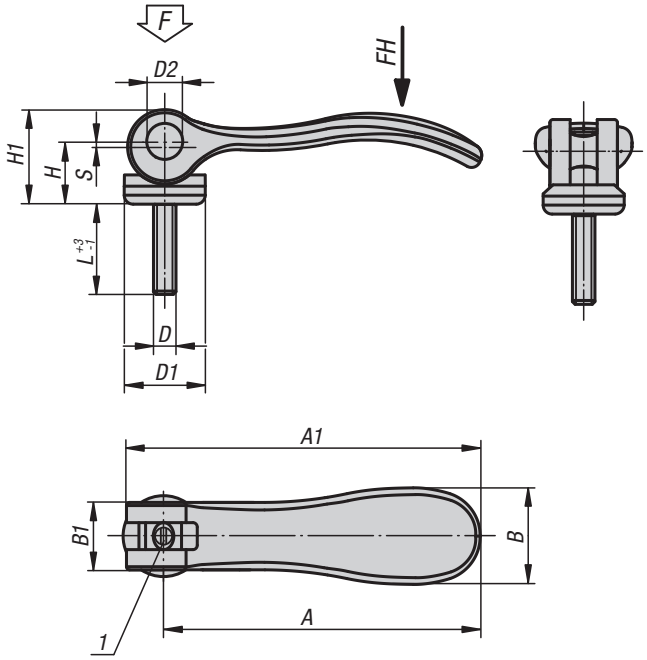
KIPP Cam levers with red plastic grip and external thread

Order No. steel	Order No. stainless steel	D	D1	D2	B	B1	H	H1	A	A1	L	Travel	Clamping force F (kN)	Hand force FH N
K0646.15218405X	**K0646.15318405X**	M5	18,1	9	22	16	14	23,4	71,5	79,6	20/30/40/50	1,15	2,5	125
K0646.15218406X	**K0646.15318406X**	M6	18,1	9	22	16	14	23,4	71,5	79,6	20/30/40/50	1,15	2,5	125
K0646.25218408X	**K0646.25318408X**	M8	27,1	11	33	24,2	16,2	27,7	100	110	25/30/40/50	1,5	5	170
K0646.25218410X	**K0646.25318410X**	M10	27,1	11	33	24,2	16,2	27,7	100	110	25/30/40/50	1,5	5	170

Cam levers adjustable

external thread, steel or stainless steel





Material:
Handles cast aluminium EN AC-46200.
Thrust washer plastic PA 66 GF 35-X fibreglass reinforced.
Hinge pins stainless steel 1.4305.
Studs and washer steel grade 5.8 or stainless steel 1.4305.

Version:
Handles fine structured powder-coated, black or red RAL 3003.
Thrust washer black.
Hinge pin bright.
Studs and washer blue passivated steel or bright stainless steel.

Sample order:
K0006.9501103X10 (include length L)

Note:
Adjustable cam levers are used if the position of the lever relative to the axis of tension only permits one specific position (interference circle). The exact position of the lever is adjusted using a screwdriver on the fine thread setscrew.
Plastics are subject to creeping under load (retardation).

Drawing reference:
1) setscrew for fine adjustment of lever

Cam levers adjustable

external thread, steel or stainless steel

KIPP Adjustable cam levers with external thread, grip black

Order No. steel	Order No. stainless steel	D	D1	D2	B	B1	H	H1	A	A1	L	Stroke S	Clamping force F (kN)	Hand force FH N
K0006.9501103X	K0006.9511103X	M3	12	6	14,4	11,5	9	13	36,2	41,7	10/15/30	1	1,5	90
K0006.9501104X	K0006.9511104X	M4	12	6	14,4	11,5	9	13	36,2	41,7	10/15/30	1	1,5	90
K0006.0501104X	K0006.0511104X	M4	15,4	8	18	13	11,2	17	52,3	59,1	15/20/30	1	2,5	100
K0006.0501105X	K0006.0511105X	M5	15,4	8	18	13	11,2	17	52,3	59,1	20/30/40/50	1	2,5	100
K0006.1501105X	K0006.1511105X	M5	18,1	9	21,5	15	14,5	22	70,4	79,2	20/30/40/50	1,2	4	120
K0006.1501106X	K0006.1511106X	M6	18,1	9	21,5	15	14,5	22	70,4	79,2	20/30/40/50	1,2	4	120
K0006.2501108X	K0006.2511108X	M8	27,1	11	33,3	24	18	28,5	96	108	25/30/40/50	1,5	8	350
K0006.2501110X	K0006.2511110X	M10	27,1	11	33,3	24	18	28,5	96	108	25/30/40/50	1,5	8	350

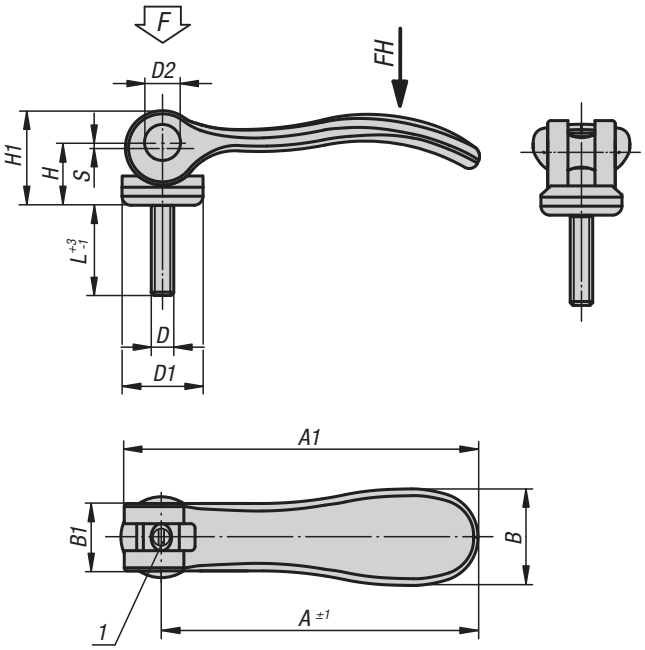
KIPP Adjustable cam levers with external thread, grip red

Order No. steel	Order No. stainless steel	D	D1	D2	B	B1	H	H1	A	A1	L	Stroke S	Clamping force F (kN)	Hand force FH N
K0006.9501403X	K0006.9511403X	M3	12	6	14,4	11,5	9	13	36,2	41,7	10/15/30	1	1,5	90
K0006.9501404X	K0006.9511404X	M4	12	6	14,4	11,5	9	13	36,2	41,7	10/15/30	1	1,5	90
K0006.0501404X	K0006.0511404X	M4	15,4	8	18	13	11,2	17	52,3	59,1	15/20/30	1	2,5	100
K0006.0501405X	K0006.0511405X	M5	15,4	8	18	13	11,2	17	52,3	59,1	20/30/40/50	1	2,5	100
K0006.1501405X	K0006.1511405X	M5	18,1	9	21,5	15	14,5	22	70,4	79,2	20/30/40/50	1,2	4	120
K0006.1501406X	K0006.1511406X	M6	18,1	9	21,5	15	14,5	22	70,4	79,2	20/30/40/50	1,2	4	120
K0006.2501408X	K0006.2511408X	M8	27,1	11	33,3	24	18	28,5	96	108	25/30/40/50	1,5	8	350
K0006.2501410X	K0006.2511410X	M10	27,1	11	33,3	24	18	28,5	96	108	25/30/40/50	1,5	8	350

Cam levers adjustable

external thread, steel





Material:
Handle steel 1.0401.
Thrust washer plastic PA 66 GF 35-X fibreglass reinforced.
Hinge pin stainless steel 1.4305.
Stud and washer steel, grade 5.8.

Version:
Handle, stud and washer blue passivated.
Thrust washer black.
Hinge pin bright.

Sample order:
K0789.1502205X20

Note:
Adjustable cam levers are used if the position of the lever relative to the axis of tension only permits one specific position (interference circle). The exact position of the lever is adjusted using a screwdriver on the fine thread setscrew. Plastics are subject to creeping under load (retardation).

Drawing reference:
1) setscrew for fine adjustment of lever

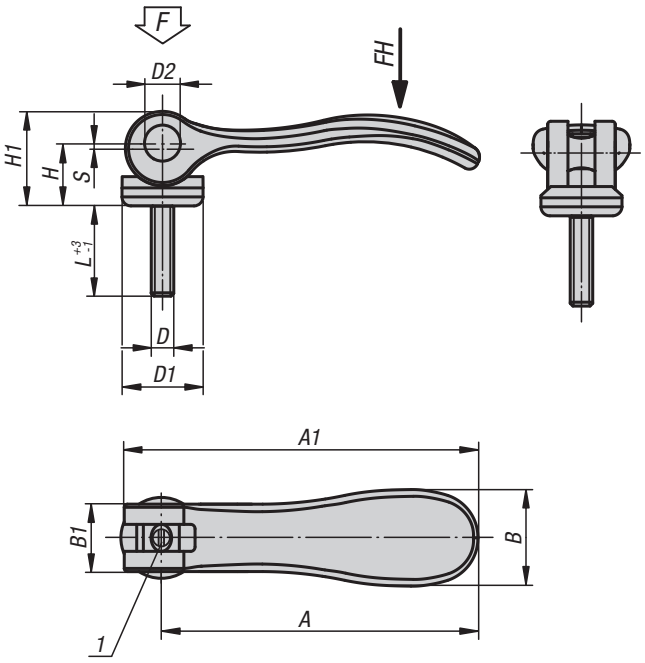
KIPP Cam levers, adjustable, external thread, steel

Order No.	Size	D	D1	D2	B	B1	H	H1	A	A1	L	Stroke S	Clamping force F (kN)	Hand force FH N
K0789.1502205X	1	M5	18,1	9	21,5	15	14,5	22	70,4	79,2	20/30/40/50	1,2	4	120
K0789.1502206X	1	M6	18,1	9	21,5	15	14,5	22	70,4	79,2	20/30/40/50	1,2	4	120
K0789.2502208X	2	M8	27,1	11	33,2	24	18	28,5	96	108	25/30/40/50	1,5	8	350
K0789.2502210X	2	M10	27,1	11	33,2	24	18	28,5	96	108	25/30/40/50	1,5	8	350

Cam levers adjustable

external thread, stainless steel





Material:
Handles 1.4308.
Thrust washer plastic PA 66 GF 35-X fibreglass reinforced.
Hinge pin, washer and screw 1.4305.

Version:
Handle electropolished or blasted.
Thrust washer black.
Hinge pin, washer and screw bright.

Sample order:
K0647.1512005X20 (include length L)

Note:
Adjustable cam levers are used if the position of the lever relative to the axis of tension only permits one specific position (interference circle). The exact position of the lever is adjusted using a screwdriver on the fine thread setscrew. Plastics are subject to creeping under load (retardation).

Drawing reference:
1) setscrew for fine adjustment of lever

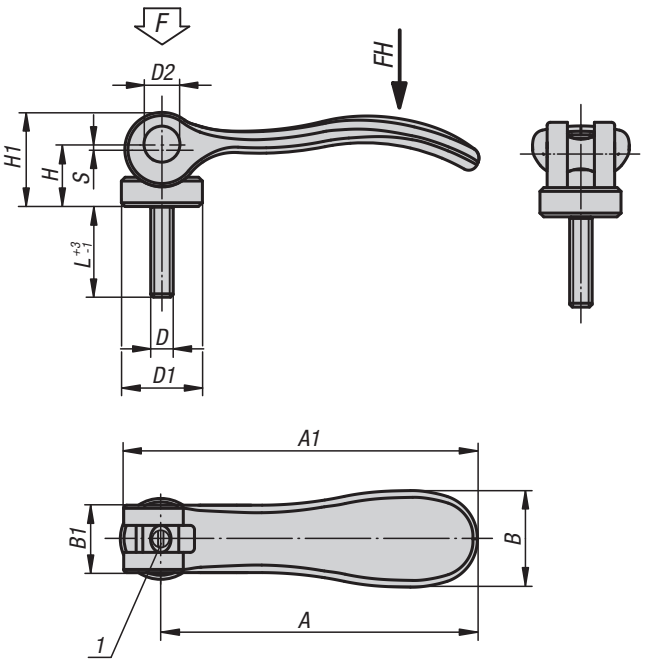
KIPP Cam levers, adjustable, external thread, stainless steel

Order No.	Surface	D	D1	D2	B	B1	H	H1	A	A1	L	Stroke S	Clamping force F (kN)	Hand force FH N
K0647.9512003X	electropolished	M3	12	6	14,4	11,5	9	13	36,2	41,7	10/15/30	1	1,5	90
K0647.9512004X	electropolished	M4	12	6	14,4	11,5	9	13	36,2	41,7	10/15/30	1	1,5	90
K0647.0512004X	electropolished	M4	15,4	8	18	13	11,2	17	52,3	59,1	15/20/30	1	2,5	100
K0647.0512005X	electropolished	M5	15,4	8	18	13	11,2	17	52,3	59,1	20/30/40/50	1	2,5	100
K0647.1512005X	electropolished	M5	18,1	9	21,5	15	14,5	22	70,4	79,2	20/30/40/50	1,2	4	120
K0647.1512006X	electropolished	M6	18,1	9	21,5	15	14,5	22	70,4	79,2	20/30/40/50	1,2	4	120
K0647.2512008X	electropolished	M8	27,1	11	33,3	24	18	28,5	96	108	25/30/40/50	1,5	8	350
K0647.2512010X	electropolished	M10	27,1	11	33,3	24	18	28,5	96	108	25/30/40/50	1,5	8	350
K0647.9512303X	blasted	M3	12	6	14,4	11,5	9	13	36,2	41,7	10/15/30	1	1,5	90
K0647.9512304X	blasted	M4	12	6	14,4	11,5	9	13	36,2	41,7	10/15/30	1	1,5	90
K0647.0512304X	blasted	M4	15,4	8	18	13	11,2	17	52,3	59,1	15/20/30	1	2,5	100
K0647.0512305X	blasted	M5	15,4	8	18	13	11,2	17	52,3	59,1	20/30/40/50	1	2,5	100
K0647.1512305X	blasted	M5	18,1	9	21,4	15	14,5	22	70,4	79,2	20/30/40/50	1,2	4	120
K0647.1512306X	blasted	M6	18,1	9	21,4	15	14,5	22	70,4	79,2	20/30/40/50	1,2	4	120
K0647.2512308X	blasted	M8	27,1	11	33,3	24	18	28,5	96	108	25/30/40/50	1,5	8	350
K0647.2512310X	blasted	M10	27,1	11	33,3	24	18	28,5	96	108	25/30/40/50	1,5	8	350

Cam levers adjustable

stainless steel, with external thread, thrust washer stainless steel





Material:
Handle 1.4308.
Thrust washer 1.4034 stainless steel, hardened.
Hinge pin and stud 1.4305 stainless steel.

Version:
Handle electropolished or blasted.
Thrust washer, hinge pin and screw bright.

Sample order:
K0647.0541305X20 (include length L)

Note:
Adjustable cam levers are used when the position of the clamping lever relative to the clamping axis permits only one specific position (swing circle interference). The exact position of the clamping lever is adjusted with a screwdriver via the fine thread on the stud.The thrust washer face is lightly greased before delivery. The grease is FDA conform and is suitable for use in the foodstuff and pharmaceutical industries.

Drawing reference:
1) setscrew for fine adjustment of lever

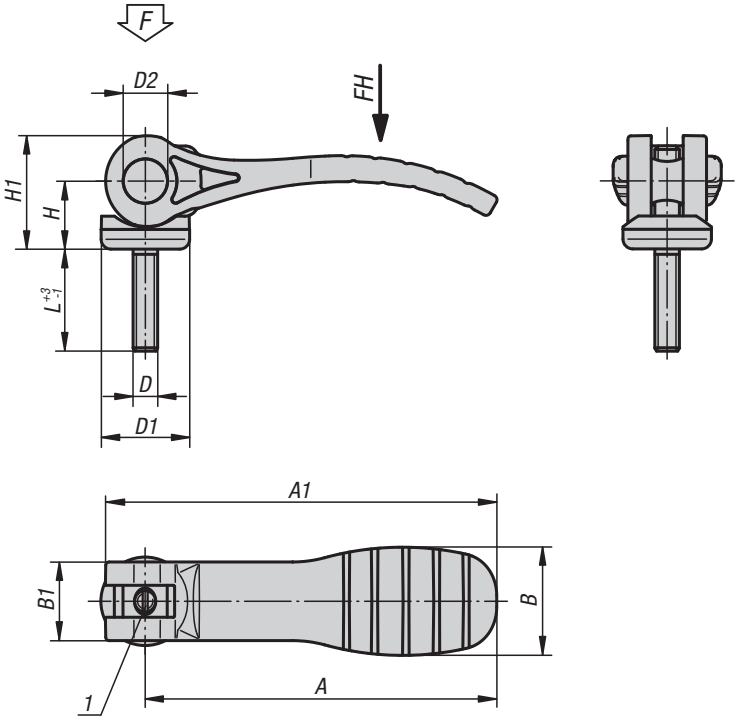
KIPP Cam levers adjustable, stainless steel, with external thread, thrust washer stainless steel

Order No. electropolished	Order No. blasted	D	D1	D2	B	B1	H	H1	A	A1	L	Stroke S	Clamping force F (kN)	Hand force FH N
K0647.9541003X	K0647.9541303X	M3	12	6	14,4	11,5	9	13,5	36,2	41,7	10/15/30	1	1,5	90
K0647.9541004X	K0647.9541304X	M4	12	6	14,4	11,5	9	13,5	36,2	41,7	10/15/30	1	1,5	90
K0647.0541004X	K0647.0541304X	M4	15,4	8	18	13	11,4	17,2	52,3	59,1	15/20/30	1	2,5	100
K0647.0541005X	K0647.0541305X	M5	15,4	8	18	13	11,4	17,2	52,3	59,1	20/30/40/50	1	2,5	100
K0647.1541005X	K0647.1541305X	M5	18	9	21,5	15	14,7	22	70,4	79,2	20/30/40/50	1,2	4	120
K0647.1541006X	K0647.1541306X	M6	18	9	21,5	15	14,7	22	70,4	79,2	20/30/40/50	1,2	4	120
K0647.2541008X	K0647.2541308X	M8	27	11	33,3	24	18,3	28,8	96	108	25/30/40/50	1,5	8	350
K0647.2541010X	K0647.2541310X	M10	27	11	33,3	24	18,3	28,8	96	108	25/30/40/50	1,5	8	350

Cam levers adjustable with plastic handle

external thread, steel or stainless steel





Material:
Handles and thrust washer plastic PA 66 fibreglass reinforced.
Hinge pins stainless steel 1.4305.
Studs and washer steel grade 5.8 or stainless steel 1.4305.

Version:
Grip black or traffic red RAL3020.
Thrust washer black.
Hinge pin blank.
Stud and washer blue passivated or bright stainless steel.

Sample order:
K0648.1521105X20 (include length L)

Note:
Adjustable cam levers are used if the position of the lever relative to the axis of tension only permits one specific position (interference circle). The exact position of the lever is adjusted using a screwdriver on the fine thread setscrew.
Plastics are subject to creeping under load (retardation), this can cause reduced clamping force.

Drawing reference:
1) setscrew for fine adjustment of lever

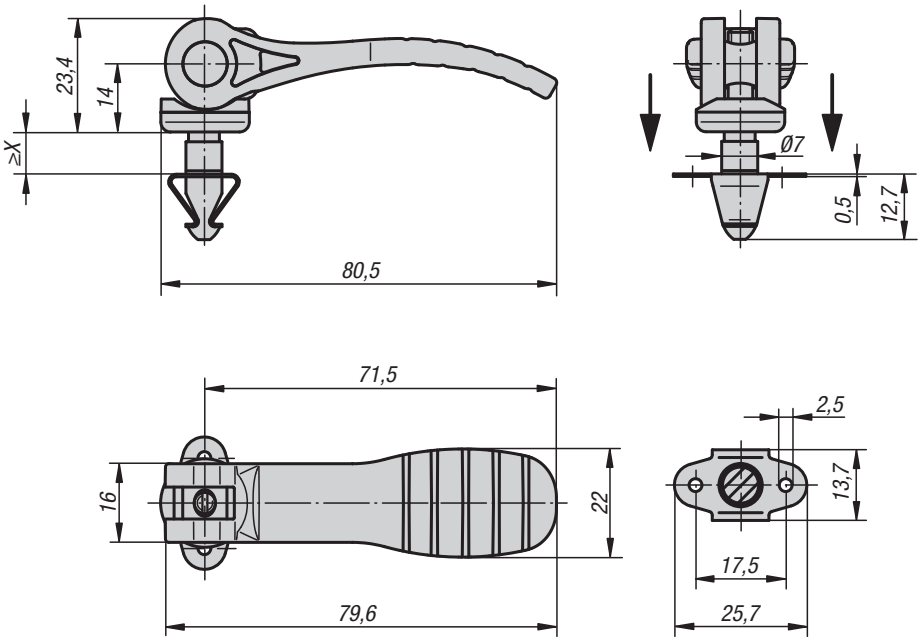
KIPP Cam levers, adjustable with black plastic grip and external thread

Order No. steel	Order No. stainless steel	D	D1	D2	B	B1	H	H1	A	A1	L	Travel	Clamping force F (kN)	Hand force FH N
K0648.1521105X	K0648.1531105X	M5	18,1	9	22	16	14	23,4	71,5	79,6	20/30/40/50	1,15	2,5	125
K0648.1521106X	K0648.1531106X	M6	18,1	9	22	16	14	23,4	71,5	79,6	20/30/40/50	1,15	2,5	125
K0648.2521108X	K0648.2531108X	M8	27,1	11	33	24	16,2	27,7	100	110	25/30/40/50	1,5	5	170
K0648.2521110X	K0648.2531110X	M10	27,1	11	33	24	16,2	27,7	100	110	25/30/40/50	1,5	5	170

KIPP Cam levers, adjustable with red plastic grip and external thread

Order No. steel	Order No. stainless steel	D	D1	D2	B	B1	H	H1	A	A1	L	Travel	Clamping force F (kN)	Hand force FH N
K0648.15218405X	K0648.15318405X	M5	18,1	9	22	16	14	23,4	71,5	79,6	20/30/40/50	1,15	2,5	125
K0648.15218406X	K0648.15318406X	M6	18,1	9	22	16	14	23,4	71,5	79,6	20/30/40/50	1,15	2,5	125
K0648.25218408X	K0648.25318408X	M8	27,1	11	33	24	16,2	27,7	100	110	25/30/40/50	1,5	5	170
K0648.25218410X	K0648.25318410X	M10	27,1	11	33	24	16,2	27,7	100	110	25/30/40/50	1,5	5	170

Cam levers with quick lock





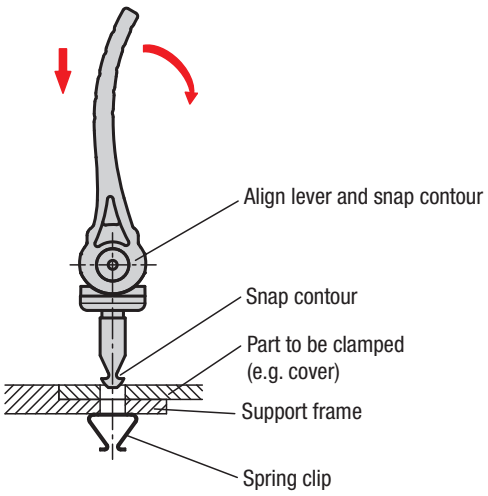
Material, version:
Handle and thrust washer fibreglass reinforced PA66 plastic, black.
Hinge pins 1.4305 bright stainless steel. Locking pin 1.0718 blue passivated steel.
Spring clip passivated 1.4310 stainless steel.

Sample order:
K0751.121107X2

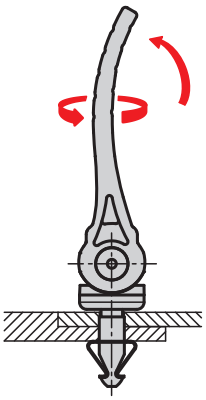
Note:
A sheet metal element can be positioned by engaging the spring clip. The sheet metal element is then clamped using the handle.
Plastics are subject to creeping under load (retardation), this can cause reduced clamping force.

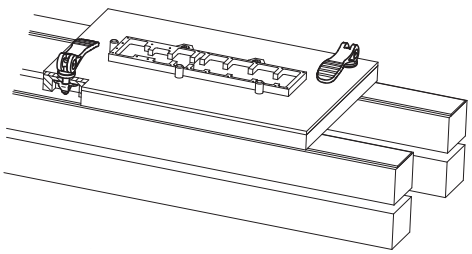
Installation instructions for cam levers with quick lock

Push in to install
Swivel grip down to clamp



Swivel grip up and twist to loosen





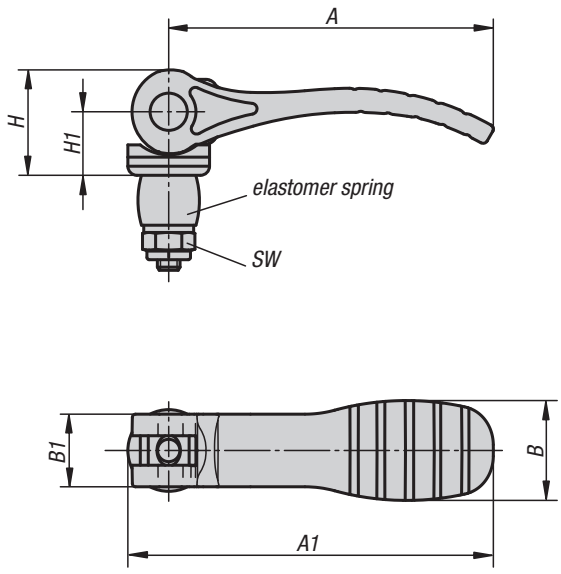
KIPP Cam levers with quick lock

Order No.	X Material thickness	Clamping force ca. N
K0751.121107X2	1,9 - 2,3	500
K0751.121107X4	3,9 - 4,3	500
K0751.121107X6	5,9 - 6,3	500
K0751.121107X8	7,9 - 8,3	500

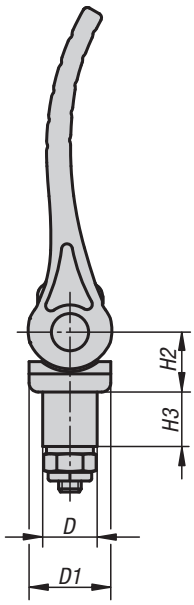
Cam lever with elastomer lock



actuated



not actuated



Material:
Handle and thrust washer fibreglass reinforced plastic PA 66.
Hinge pin stainless steel 1.4305.
Stud and washer steel grade 5.8
PUR elastomer spring.

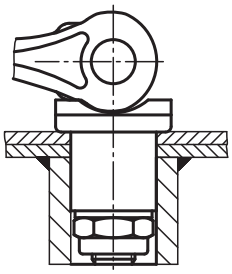
Version:
Handles and thrust washer black.
Hinge pins bright.
Studs and washer blue passivated.
Hexagon nuts with thread lock and thrust washer blue passivated.

Sample order:
K0118.121112X12

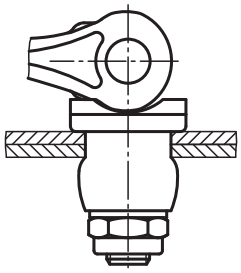
Note:
Actuating the handle causes the elastomer spring to expand and form to the surrounding surface. The amount of expansion of the elastomer spring and hence the clamping force can be adjusted using the nut with clamping element. Simultaneously, the clamping element nut ensures that the preset clamping force remains unchanged when the clamp is released.

Application:
The specified holding forces are not suitable for constant loads.
We would be happy to supply samples to test on your application.

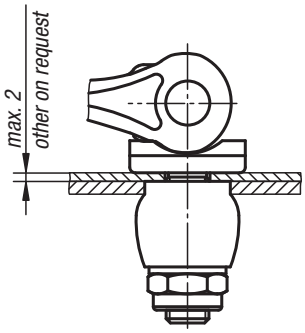
Full bore clamping



Sheet metal clamping 1



Sheet metal clamping 2





KIPP Cam levers with elastomer lock

Order No.	Size	D	D1	B	B1	H	H1	H2	H3	A	A1	SW	Clamping force ca. N clamp bore (no permanent load)	Clamping force ca. N plate clamping (no permanent load)
K0118.121112X12	1	12	18,1	22	16	23,2	14	12,85	12	71,5	79,6	10	100	50
K0118.121114X12	1	14	18,1	22	16	23,2	14	12,85	12	71,5	79,6	10	150	60
K0118.221116X20	2	16	27,1	33	24	27,8	16,2	14,7	20	99,9	110	13	350	60
K0118.221118X20	2	18	27,1	33	24	27,8	16,2	14,7	20	99,9	110	13	350	100
K0118.221120X20	2	20	27,1	33	24	27,8	16,2	14,7	20	99,9	110	16	350	100

Grips, knobs

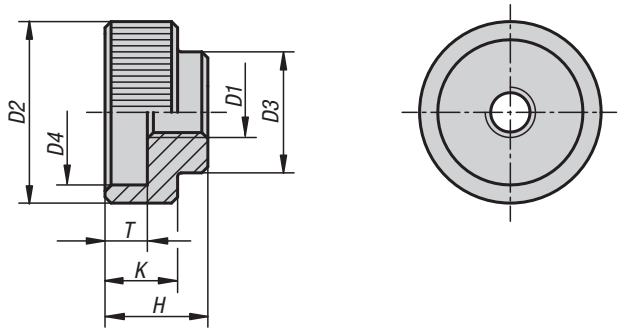


Knurled nuts

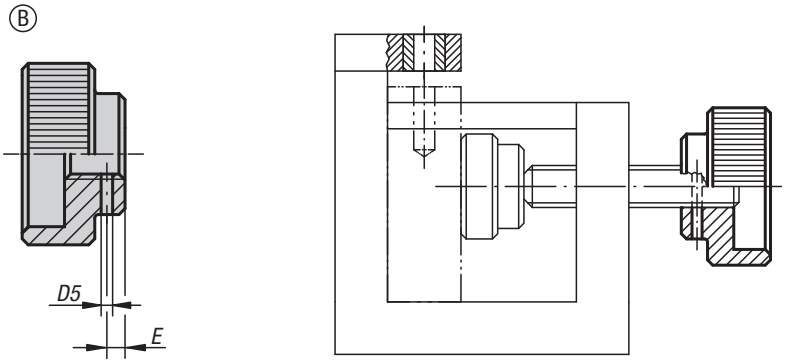
steel and stainless steel, DIN 6303



Ⓐ



Ⓑ



Material:
Free-cutting steel 1.0718.
Stainless steel 1.4305.

Version:
Free-cutting steel, black oxidised.
Stainless steel bright.

Sample order:
K0137.108

Drawing reference:
Form A: without pin hole
Form B: with pin hole
- Drill through and ream pin hole during assembly.

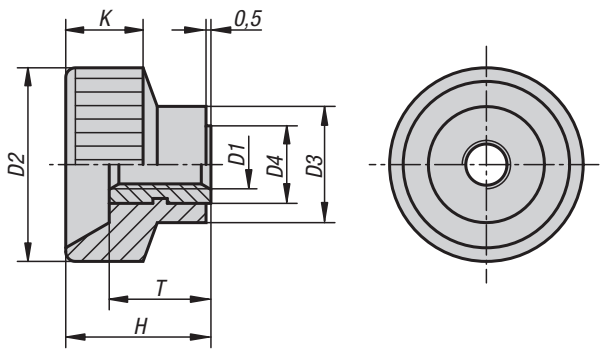
KIPP Knurled nuts, steel and stainless steel, DIN 6303

Order No.	Form	Main material	D1	D2	D3	D4	D5 predrilled	E	H	K	T	suitable dowel pin ISO 2338
K0137.105	A	Free-cutting steel	M5	20	14	15	-	-	12	8	5	-
K0137.106	A	Free-cutting steel	M6	24	16	18	-	-	14	10	6	-
K0137.108	A	Free-cutting steel	M8	30	20	24	-	-	17	12	7	-
K0137.110	A	Free-cutting steel	M10	36	28	30	-	-	20	14	8	-
K0137.112	A	Free-cutting steel	M12	40	32	34	-	-	24	16	10	-
K0137.1052	A	Stainless steel	M5	20	14	15	-	-	12	8	5	-
K0137.1062	A	Stainless steel	M6	24	16	18	-	-	14	10	6	-
K0137.1082	A	Stainless steel	M8	30	20	24	-	-	17	12	7	-
K0137.1102	A	Stainless steel	M10	36	28	30	-	-	20	14	8	-
K0137.1122	A	Stainless steel	M12	40	32	34	-	-	24	16	10	-
K0137.205	B	Free-cutting steel	M5	20	14	15	1,4	2,5	12	8	5	1,5 M6X14
K0137.206	B	Free-cutting steel	M6	24	16	18	1,4	2,5	14	10	6	1,5 M6X16
K0137.208	B	Free-cutting steel	M8	30	20	24	1,9	3	17	12	7	2 M6X20
K0137.210	B	Free-cutting steel	M10	36	28	30	2,9	4	20	14	8	3 M6X28
K0137.212	B	Free-cutting steel	M12	40	32	34	3,9	4	24	16	10	4 M6X32

K0138

Knurled nuts

plastic





Material:
Black Duroplast PF 31.
Tapped bush brass.

Version:
Tapped bush nickel-plated.

Sample order:
K0138.08

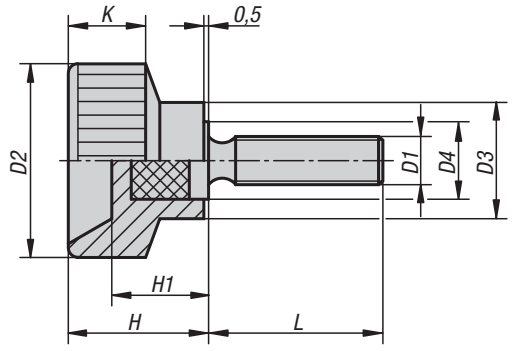
KIPP Knurled nuts plastic

Order No.	D1	D2	D3	D4	H	K	T
K0138.04	M4	18	10	7	13	8	9
K0138.05	M5	20	12	8	14	8	10
K0138.06	M6	24	13	9	16	9	10
K0138.08	M8	30	15	11	18	11	11
K0138.10	M10	35	18	14	19	12	11

K0141

Knurled screws

plastic





Material:
Black Duroplast PF 31.
Screw steel.

Version:
Screw galvanized.

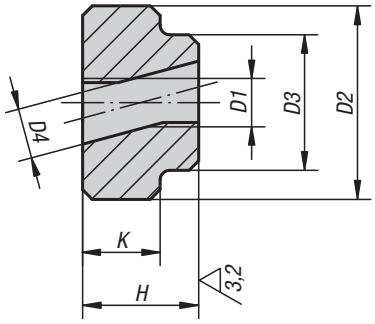
Sample order:
K0141.05X25 (include length L)

KIPP Knurled screws, plastic

Order No.	L	D1	D2	D3	D4	H	H1	K
K0141.04X	15/20	M4	18	10	7	13,5	9	8
K0141.05X	10/18/25	M5	20	12	8	14,5	10	8
K0141.06X	20/28	M6	24	13	10	15	9,5	9
K0141.08X	25/32	M8	30	15	12	18	11	11
K0141.10X	30	M10	35	18	14	18,5	11	12

Knurled nuts quick-acting





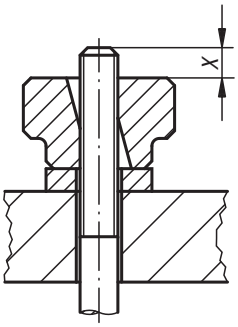
Material:
Carbon steel.

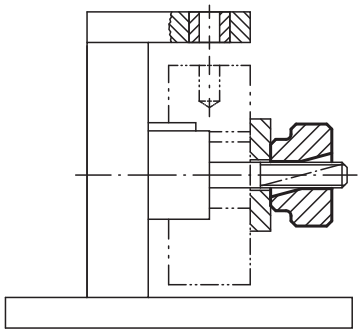
Version:
Tempered and black oxidised.

Sample order:
K0139.08

Note:
Quick-acting knurled nuts are mainly used in applications where no high clamping pressures are required.
Tilt the nut to slide on, then straighten it to engage the threads.

Drawing reference:
X: The stud should be several mm longer than height “H”





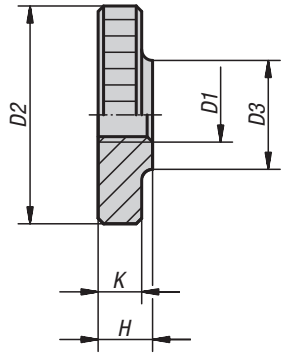
KIPP Knurled nuts quick-acting

Order No.	D1	D2	D3	D4	H	K
K0139.05	M5	20	14	5,2	12	8
K0139.06	M6	24	16	6,2	14	10
K0139.08	M8	30	20	8,2	17	12
K0139.10	M10	36	28	10,3	20	14
K0139.12	M12	40	32	12,3	24	16

K0144

Knurled nuts flat

steel and stainless steel, DIN 467





Material:
Free-cutting steel 1.0718.
Stainless steel 1.4305.

Version:
Steel black oxidised.
Stainless steel bright.

Sample order:
K0144.042

Note:
M12 flat knurled nuts are not included in the official standards sheet.

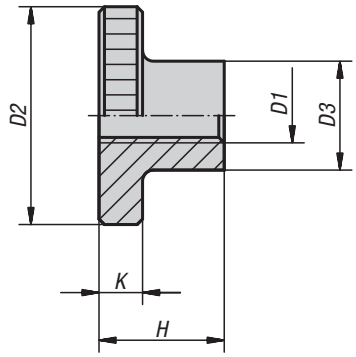
KIPP Knurled nuts flat, steel and stainless steel, DIN 467

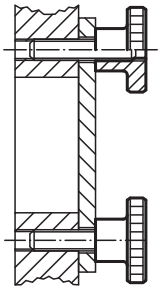
Order No. Free-cutting steel	Order No. Stainless steel	D1	D2	D3	H	K
K0144.04	**K0144.042**	M4	16	8	4	3,5
K0144.05	**K0144.052**	M5	20	10	5	4
K0144.06	**K0144.062**	M6	24	12	6	5
K0144.08	**K0144.082**	M8	30	16	8	6
K0144.10	**K0144.102**	M10	36	20	10	8
K0144.12	**K0144.122**	M12	36	20	10	8

K0143

Knurled nuts high form

steel and stainless steel, DIN 466







Material:
Free-cutting steel 1.0718.
Stainless steel 1.4305.

Version:
Steel black oxidised.
Stainless steel bright.

Sample order:
K0143.04

Note:
M12 high knurled nuts are not included in the official standards sheet.

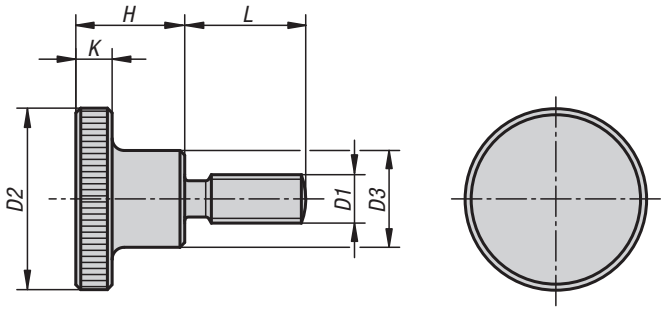
KIPP High form knurled nuts, steel and stainless steel, DIN 466

Order No. Free-cutting steel	Order No. Stainless steel	D1	D2	D3	H	K
K0143.04	**K0143.042**	M4	16	8	9,5	3,5
K0143.05	**K0143.052**	M5	20	10	11,5	4
K0143.06	**K0143.062**	M6	24	12	15	5
K0143.08	**K0143.082**	M8	30	16	18	6
K0143.10	**K0143.102**	M10	36	20	23	8
K0143.12	**K0143.122**	M12	36	20	23	8

Knurled screws high

steel and stainless steel, DIN 464



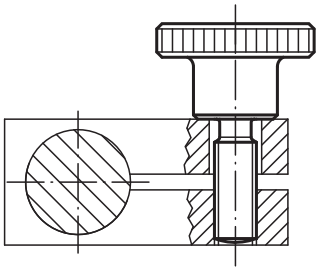


Material:
Free-cutting steel 1.0718.
Stainless steel 1.4305.

Version:
Free-cutting steel, black oxidised.
Stainless steel bright.

Sample order:
K0140.06X20 (include length L)

Note:
* By these lengths the thread has no undercut at the shoulder.



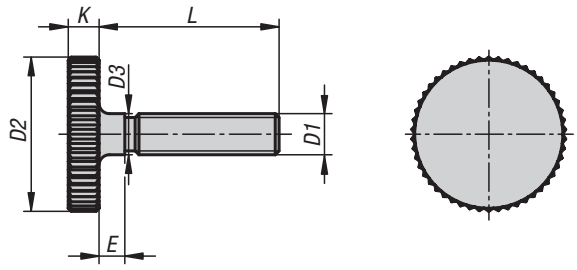
KIPP Knurled screws high, steel and stainless steel, DIN 464

Order No. Free-cutting steel	Order No. Stainless steel	D1	D2	D3	L	H	K
K0140.04X	**K0140.042X**	M4	16	8	10/16/20*	9,5	3,5
K0140.05X	**K0140.052X**	M5	20	10	10/16/20	11,5	4
K0140.06X	**K0140.062X**	M6	24	12	10/16/20/25*	15	5
K0140.08X	**K0140.082X**	M8	30	16	16/20/25/30*	18	6
K0140.10X	**K0140.102X**	M10	36	20	20/25/30/40*	23	8

K1163

Knurled screws low head

steel and stainless steel, DIN 653





Material:
Steel or stainless steel (A 1).

Version:
Steel grade 5.8, bright;
Stainless steel, bright.

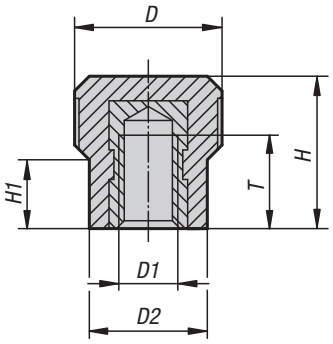
Sample order:
K1163.062X20 (include length L)

KIPP Knurled screws low head, steel and stainless steel, DIN 653

Order No.	Main material	D1	D2	D3	E	K	L
K1163.03X	steel	M3	12	3	2	2,5	10/12/16
K1163.04X	steel	M4	16	4	3	3,5	8/10/12/16/20
K1163.05X	steel	M5	20	5	3	4	10/12/16/20/25/30
K1163.06X	steel	M6	24	6	4	5	12/16/20/25/30/35/40
K1163.08X	steel	M8	30	8	5	6	16/20/25/30/35/40
K1163.10X	steel	M10	36	10	6	8	20/25/30/35/40
K1163.032X	stainless steel	M3	12	3	2	2,5	10/12/16
K1163.042X	stainless steel	M4	16	4	3	3,5	8/10/12/16/20
K1163.052X	stainless steel	M5	20	5	3	4	10/12/16/20/25/30
K1163.062X	stainless steel	M6	24	6	4	5	12/16/20/25/30/35/40
K1163.082X	stainless steel	M8	30	8	5	6	16/20/25/30
K1163.102X	stainless steel	M10	36	10	6	8	20/25/30/40

K0142

Knurled knobs





Material:
Duroplast PF 31, black.
Bush brass.

Version:
High-gloss polished.

Sample order:
K0142.11203

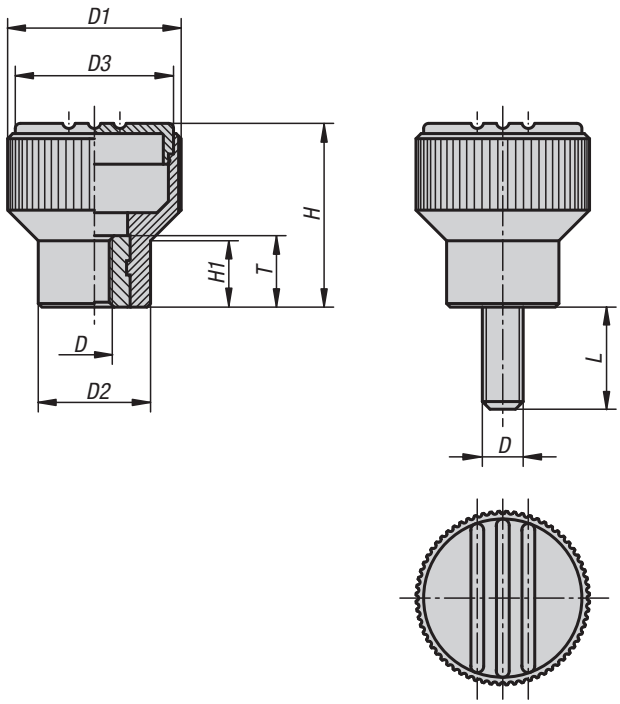
On request:
Other colours.

KIPP Knurled knobs

Order No.	D	D1	D2	H	H1	T
K0142.11203	12	M3	10	13,5	6	6,5
K0142.11204	12	M4	10	13,5	6	10
K0142.11504	15	M4	12	15,5	7	10
K0142.11505	15	M5	12	15,5	7	10
K0142.11506	15	M6	12	15,5	7	9

Knurled knobs





These handy knurled knobs are amazing: optimal ergonomics, raised edge serrations and an optimized design continually open new markets and increase the aesthetic and safety related profile of every product.

Material:
Thermoplastic, black grey.
Bush and threaded pin steel 5.8 or stainless steel 1.4305.

Version:
Blue passivated steel or bright stainless steel.

Sample order:
K0247.01056X20
(Cap colour traffic red. Include length L)

Note:
Δ Add the desired cap colour code here. No colour code is required for black grey caps.

black grey	light grey Δ = 5	traffic red Δ = 6	bright yellow Δ = 7
RAL 7021	RAL 7035	RAL 3020	RAL 1021

KIPP Knurled knobs with internal thread

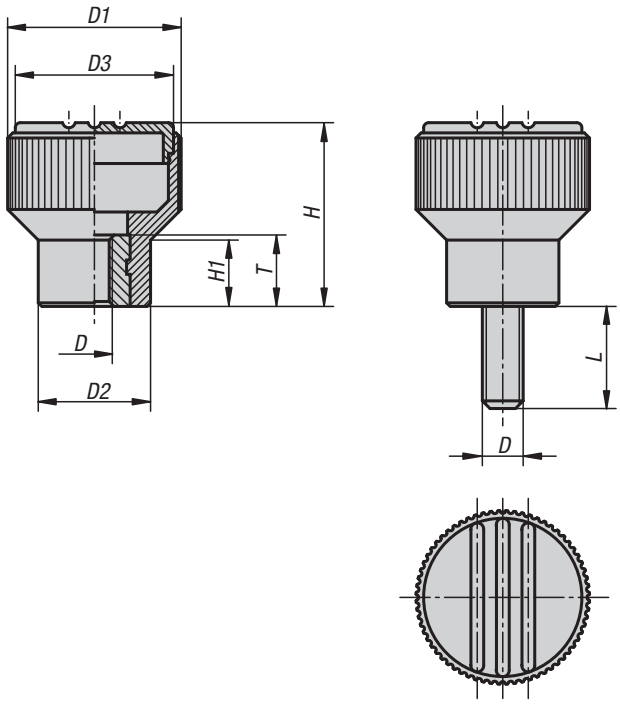
Order No. Steel	Order No. Stainless steel	Size	D	D1	D2	D3	H	H1	T
K0247.104Δ	**K0247.0104Δ**	1	M4	21	14	19	22	8	10
K0247.105Δ	**K0247.0105Δ**	1	M5	21	14	19	22	8	10
K0247.106Δ	**K0247.0106Δ**	1	M6	21	14	19	22	8	10
K0247.208Δ	**K0247.0208Δ**	2	M8	26	18	23	26	9,5	14
K0247.308Δ	**K0247.0308Δ**	3	M8	34	22	31	36	13	14
K0247.310Δ	**K0247.0310Δ**	3	M10	34	22	31	36	13	14

KIPP Knurled knobs with external thread

Order No. Steel	Order No. Stainless steel	Size	D	D1	D2	D3	H	H1	L
K0247.105ΔX	**K0247.0105ΔX**	1	M5	21	14	19	22	8	10/12/15/20/25
K0247.106ΔX	**K0247.0106ΔX**	1	M6	21	14	19	22	8	15/20/25/30
K0247.208ΔX	**K0247.0208ΔX**	2	M8	26	18	23	26	9,5	20/25/30/40
K0247.310ΔX	**K0247.0310ΔX**	3	M10	34	22	31	36	13	20/30/40

Knurled knobs biopolymer





Material:
Biopolymer, beech.
Bush or threaded pin steel 5.8

Version:
Steel blue passivated.
Natural beech with beech fibres or coloured black grey.

Sample order:
K0247.1010490

Advantages:
This biopolymer is manufactured entirely from renewable raw materials (oil free).
Conservation of finite fossil resources.
The wood fibres originate 100% from local forests in Germany.
PEFC certified (guarantees that wood products originate from sustainably managed forests).

Features:
Excellent mechanical stability (certified with a minimum of 2x safety factor).
Biopolymer is suitable for recycling (comparable to thermoplastics).
Suitable for outdoor use (not biodegradable).
Excellent resistance to strong acids and lyes.
Short-term resistance to alcohol, fuel, mineral oil and grease.

KIPP Knurled knobs biopolymer internal thread

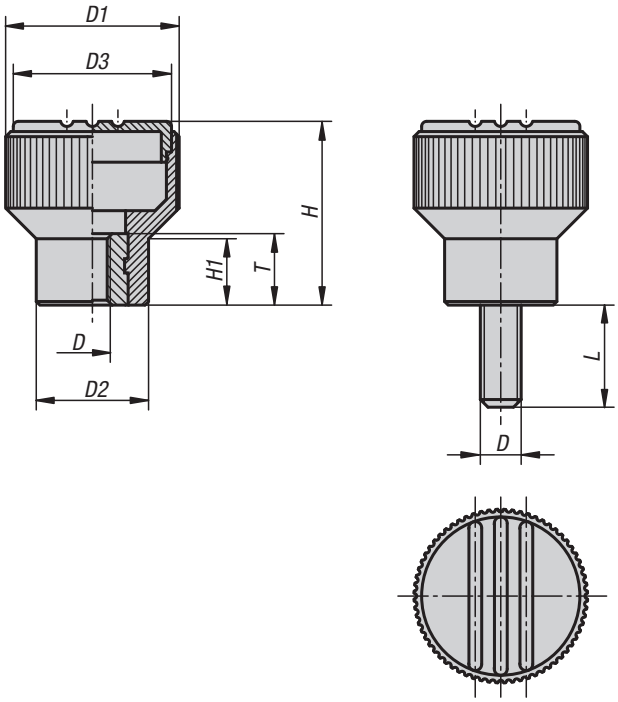
Order No.	Main colour	Size	D	D1	D2	D3	H	H1	T
K0247.10104143	natural beech	1	M4	21	14	19	22	8	10
K0247.10105143	natural beech	1	M5	21	14	19	22	8	10
K0247.10106143	natural beech	1	M6	21	14	19	22	8	10
K0247.1010490	black grey RAL 7021	1	M4	21	14	19	22	8	10
K0247.1010590	black grey RAL 7021	1	M5	21	14	19	22	8	10
K0247.1010690	black grey RAL 7021	1	M6	21	14	19	22	8	10

KIPP Knurled knobs biopolymer external thread

Order No.	Main colour	Size	D	D1	D2	D3	H	H1	L
K0247.10105143X10	natural beech	1	M5	21	14	19	22	8	10
K0247.10106143X15	natural beech	1	M6	21	14	19	22	8	15
K0247.1010590X10	black grey RAL 7021	1	M5	21	14	19	22	8	10
K0247.1010690X15	black grey RAL 7021	1	M6	21	14	19	22	8	15

Knurled knobs antistatic





Material:
Thermoplastic, graphite black.
Bush or screw steel 5.8.

Version:
Screw blue passivated.

Sample order:
K0247.1110624

Application:
Sensitive electrical or electronic equipment, components and devices (ESD sensitive elements) may be damaged or destroyed by electrostatic discharges (ESD) in the immediate vicinity. Electrostatic discharges can come from people or through handling ESD sensitive components (e.g. during production, assembly, transport, storage etc).
Electrically conductive products which conform to DIN EN 61340-5-1 are essential within electronic environments to prevent an electrostatic discharge.
These products can be used for ESD applications or in ESD protection areas (EPA) in accordance with DIN EN 61340-5-1.
The yellow ESD logo is printed on the side of the product to clearly identify it.

Safety:
These ESD products can also be used for devices, components and protection systems in areas with high risk of explosion.
Use of these ESD products prevents the occurrence of electrostatic spark discharges, eliminating the potential ignition of gases and dusts which could lead to explosions in enclosed spaces.
Manufacturers and operators must use and conform to ATEX directives for the protection of persons working in areas with high risk of explosion.
These ESD products are certified by TÜV-Süd in relation to their electrical discharge capability.

Target groups:
Device manufacturers required to conform to ATEX product directive 2014/34/EU.
Operators required to conform to ATEX worker protection directive 1999/92/EC.

KIPP Knurled knobs antistatic with internal thread

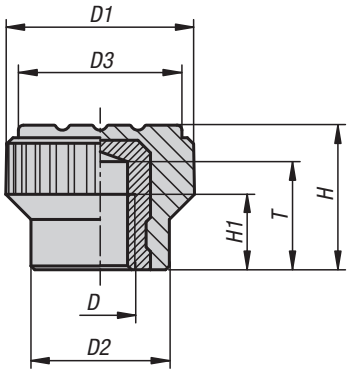
Order No.	Size	D	D1	D2	D3	H	H1	T
K0247.1110624	1	M6	21	14	19	22	8	10

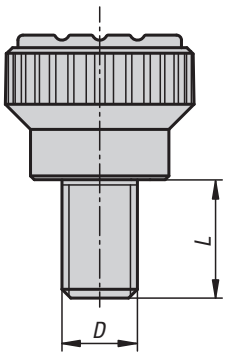
KIPP Knurled knobs antistatic with external thread

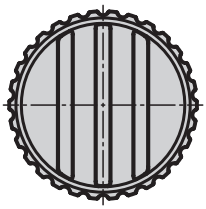
Order No.	Size	D	D1	D2	D3	H	H1	L
K0247.1110624X15	1	M6	21	14	19	22	8	15

Knurled knobs









Material:
Grip black grey thermoplastic.
Bush brass or stainless steel 1.4305.
Screw steel 5.8 or stainless steel 1.4305.

Version:
Steel blue passivated.
Stainless steel, bright.

Sample order:
K0110.005X12 (include length L)

On request:
Other colours.

KIPP Knurled knobs with internal thread

Order No.	Version	D	D1	D2	D3	H	H1	T
K0110.003	Bush brass	M3	15	11	13	11,5	4,5	8,6
K0110.004	Bush brass	M4	15	11	13	11,5	6	8,6
K0110.005	Bush brass	M5	15	11	13	11,5	6	8,6
K0110.0003	Bush stainless steel	M3	15	11	13	11,5	4,5	8,6
K0110.0004	Bush stainless steel	M4	15	11	13	11,5	6	8,6
K0110.0005	Bush stainless steel	M5	15	11	13	11,5	6	8,6

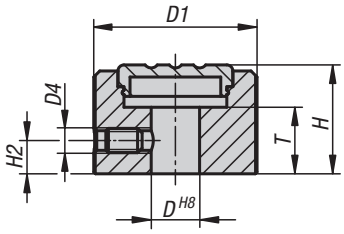
KIPP Knurled knobs with external thread

Order No.	Version	D	D1	D2	D3	H	L
K0110.003X	Pin steel	M3	15	11	13	11,5	8/10/12/15
K0110.004X	Pin steel	M4	15	11	13	11,5	8/10/12/15
K0110.005X	Pin steel	M5	15	11	13	11,5	10/12/15/20
K0110.006X	Pin steel	M6	15	11	13	11,5	10/15/20/25
K0110.0003X	Pin stainless steel	M3	15	11	13	11,5	8/10/12/15
K0110.0004X	Pin stainless steel	M4	15	11	13	11,5	8/10/12/15
K0110.0005X	Pin stainless steel	M5	15	11	13	11,5	10/12/15/20
K0110.0006X	Pin stainless steel	M6	15	11	13	11,5	10/15/20/25

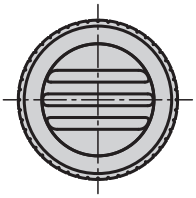
Knurled knobs

aluminium









Material:
Body aluminium.
Cap thermoplastic PA6.
Grub screw stainless steel.

Version:
Body black anodized.
Cap light grey RAL 7035.
Grub screw bright.

Sample order:
K1099.27085

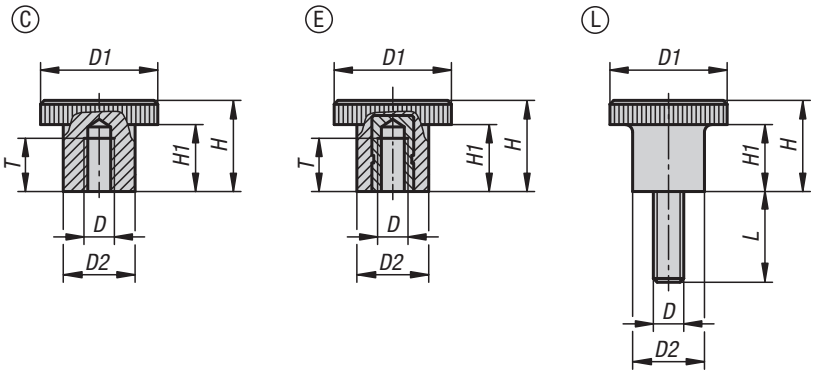
On request:
Other internal threads, colours and special versions.

KIPP Knurled knobs aluminium

Order No.	D	D1	D4	H	H2	T
K1099.27085	8	27	M4	18	5,5	11
K1099.27105	10	27	M4	18	5,5	11
K1099.34105	10	34	M5	21	7	11
K1099.34125	12	34	M5	21	7	11
K1099.42125	12	42	M5	24,5	8,5	15
K1099.42145	14	42	M5	24,5	8,5	15

Knurled knobs





Material:
Duroplast PF 31, black.
Screw, steel.
Tapped bush, steel or brass.

Version:
Screw, galvanized.
Tapped bush, galvanized or bright brass.

Sample order:
K1223.302205X10

Drawing reference:
Form C: tapped blind hole
Form E: tapped bush
Form L: external thread

KIPP Knurled knobs with internal thread

Order No.	Form	Component material	D	D1	D2	H	H1	T
K1223.102206	C	plastic	M6	22	12	13	6	7,5
K1223.102606	C	plastic	M6	26	17	20	14	9
K1223.212205	E	brass	M5	22	12	13	6	6
K1223.202606	E	steel	M6	26	17	20	14	10
K1223.202608	E	steel	M8	26	17	20	14	12

KIPP Knurled knobs with external thread

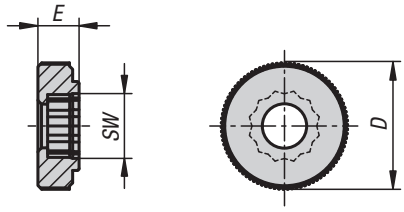
Order No.	Form	Component material	D	D1	D2	H	H1	L
K1223.302205X	L	steel	M5	22	12	13	6	10/15/20
K1223.302206X	L	steel	M6	22	12	13	6	10/15/20/30
K1223.302606X	L	steel	M6	26	15	13	6	10/15/20/30
K1223.302608X	L	steel	M8	26	15	13	6	15/20/30

Knurled knob

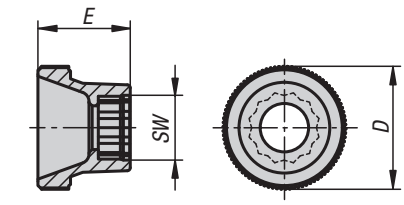
for hex head screws



Ⓐ



Ⓑ



Material:
Thermoplastic.

Version:
Black or orange.

Sample order:
K1138.00040 (knurled knob colour black)
Colour code:
0=black
1=orange

Note:
Suitable screws ISO 4014.

Δ add the desired colour code here

KIPP Knurled knobs for screws with external hex

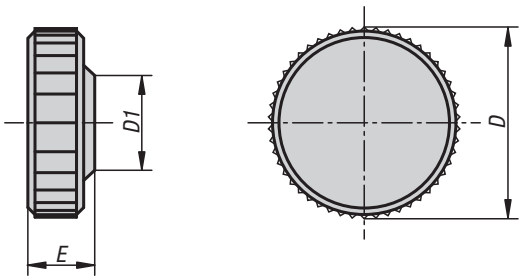
Order No.	Form	for screws	D	E	SW
K1138.0Δ040	A	M4	17	5,5	7
K1138.0Δ050	A	M5	20	6,5	8
K1138.0Δ060	A	M6	25	8	10
K1138.0Δ080	A	M8	36	10	13
K1138.0Δ100	A	M10	36	10	17
K1138.1Δ040	B	M4	17	11,5	7
K1138.1Δ050	B	M5	20	15	8
K1138.1Δ060	B	M6	25	18	10
K1138.1Δ080	B	M8	36	23	13
K1138.1Δ100	B	M10	36	23	17

Notes

Knurled heads

for hexagon socket screws





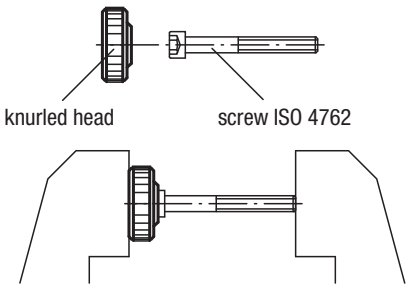
Material:
Thermoplastic.

Version:
Black, grey or red.

Sample order:
K0680.0506 (knurled head colour red)
Colour code:
5 = grey
6 = red

Note:
Suitable screws ISO 4762.

Δ Add the desired colour code here.
No colour code is required for black.



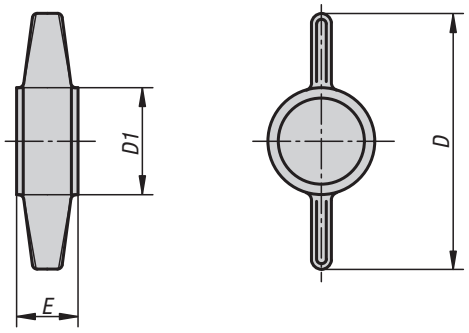
KIPP Knurled heads for hexagon socket screws

Order No.	D	D1	E	for hexagon socket screw
K0680.030Δ	9,5	8,3	4,5	M3
K0680.040Δ	13	9,6	5	M4
K0680.050Δ	16	11,5	6,5	M5
K0680.060Δ	19	14	7,5	M6
K0680.061Δ	26	13	8	M6
K0680.080Δ	26	16	10	M8

Wing grips

for hexagon socket screws



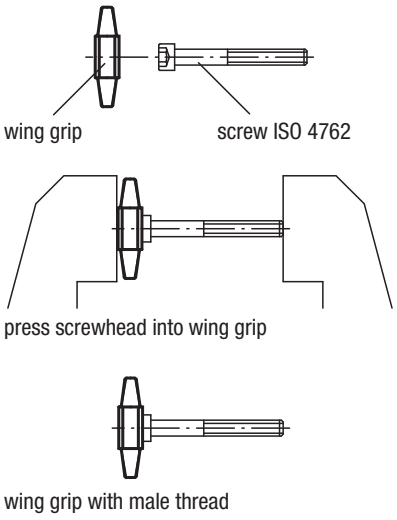


Material:
Thermoplastic.

Version:
Black, grey or red.

Sample order:
K0681.0506 (wing grip colour red)
Colour code:
5 = grey
6 = red
Δ Add the desired colour code here.
No colour code is required for black grips.

Note:
Suitable screws ISO 4762.



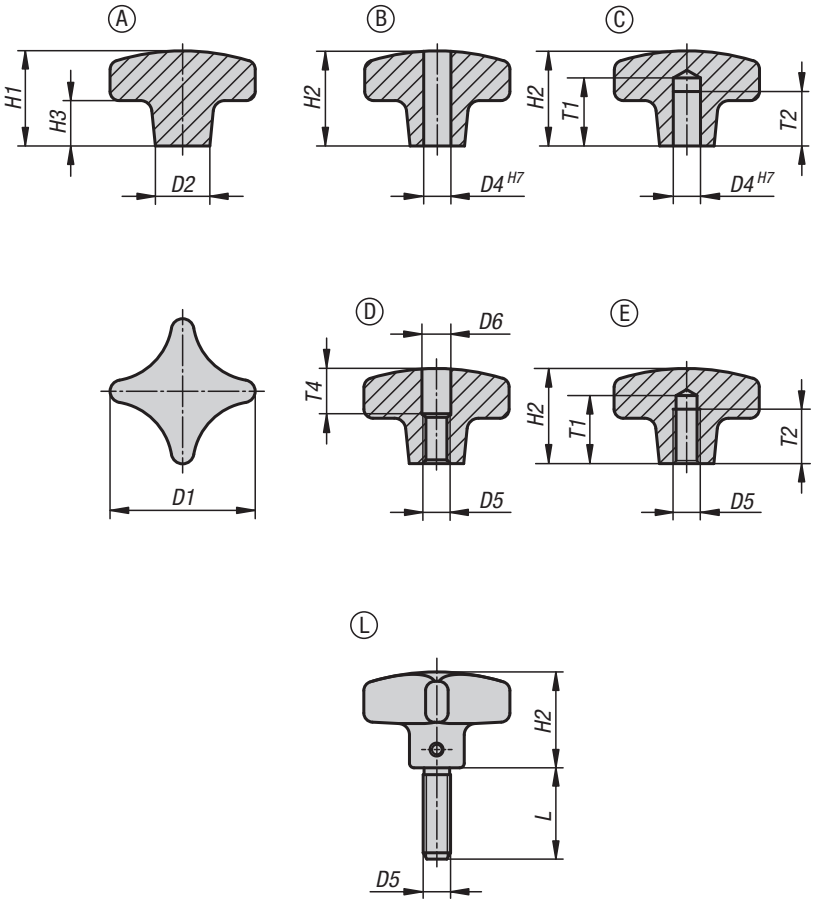
KIPP Wing grips for hexagon socket screws

Order No.	D	D1	E	for hexagon socket screw
K0681.050Δ	26	12	7	M5
K0681.060Δ	30	13,5	8	M6
K0681.080Δ	38	17	10	M8
K0681.100Δ	45	20	12,5	M10

Palm grips

aluminium, similar to DIN 6335





Material:
Aluminium.
Grub screw stainless steel 1.4305.
Pin stainless steel 1.4310.

Version:
Vibratory ground or ground and polished.
Grub screw and pin bright.

Sample order:
K0145.104008

On request:
Blank palm grips (not tumbled).

Drawing reference:
Form A: blank
Form B: drilled through
Form C: blind hole
Form D: tapped and counterbored
Form E: tapped blind hole
Form L: external thread

KIPP Palm grips aluminium, similar to DIN 6335

Order No.	Version	Form	D1	D2	H1	H3
K0145.104008	tumbled	A	40	14	26	14
K0145.105010	tumbled	A	50	18	34	20
K0145.106312	tumbled	A	63	25	42	25
K0145.108016	tumbled	A	80	25	52	30

Palm grips

aluminium, similar to DIN 6335

KIPP Palm grips similar to DIN 6335, aluminium

Order No. tumbled	Order No. polished	Form	D1	D2	D4	H2
K0145.204008	K0145.2040082	B	40	14	8	25
K0145.205010	K0145.2050102	B	50	18	10	32
K0145.206312	K0145.2063122	B	63	25	12	40
K0145.208016	K0145.2080162	B	80	25	16	50

Order No. tumbled	Order No. polished	Form	D1	D2	D4	H2	T1	T2
K0145.304008	K0145.3040082	C	40	14	8	25	18	15
K0145.305010	K0145.3050102	C	50	18	10	32	21	18
K0145.306312	K0145.3063122	C	63	25	12	40	25	22
K0145.308016	K0145.3080162	C	80	25	16	50	32	28

Order No. tumbled	Order No. polished	Form	D1	D2	D5	D6	H2	T4
K0145.404008	K0145.4040082	D	40	14	M8	8,4	25	12
K0145.405010	K0145.4050102	D	50	18	M10	10,5	32	16
K0145.406312	K0145.4063122	D	63	25	M12	13	40	20
K0145.408016	K0145.4080162	D	80	25	M16	17	50	30

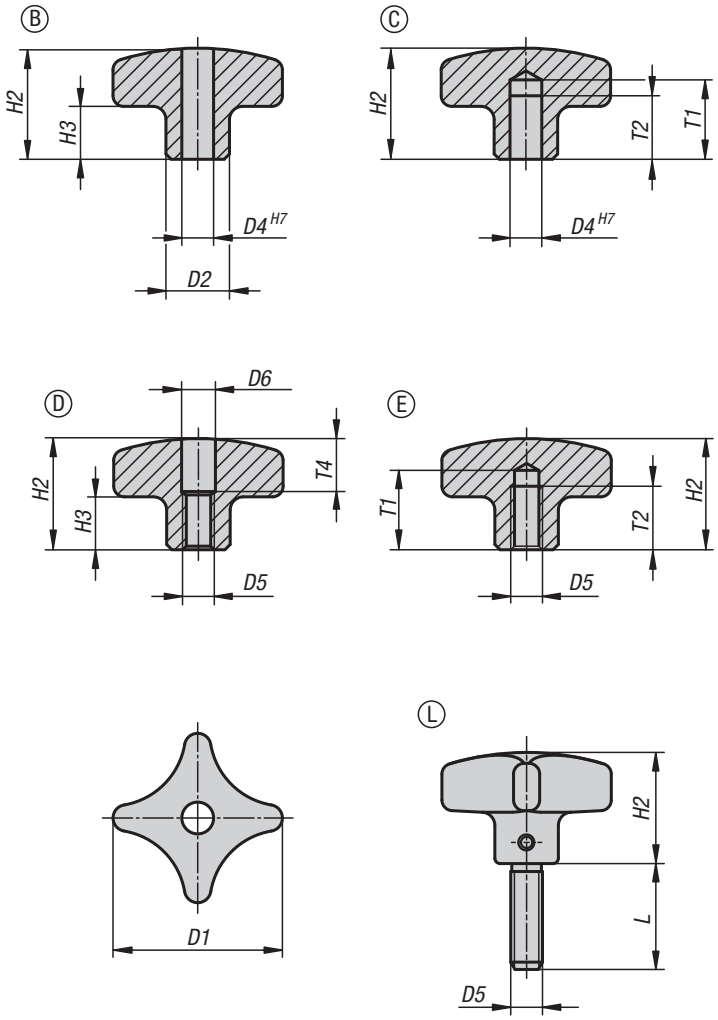
Order No. tumbled	Order No. polished	Form	D1	D2	D5	H2	T1	T2
K0145.504008	K0145.5040082	E	40	14	M8	25	18	15
K0145.505010	K0145.5050102	E	50	18	M10	32	21	18
K0145.506312	K0145.5063122	E	63	25	M12	40	25	22
K0145.508016	K0145.5080162	E	80	25	M16	50	32	28

Order No.	Version	Form	D1	D2	D5	H2	L
K0145.604008X	tumbled	L	40	14	M8	25	20/25/30/40/50
K0145.605010X	tumbled	L	50	18	M10	32	20/25/30/40/50
K0145.606312X	tumbled	L	63	25	M12	40	20/30/40/50

Palm grips

stainless steel, similar to DIN 6335





Material:
Stainless steel 1.4308.
Grub screw stainless steel 1.4305.
Pin stainless steel 1.4310.

Version:
Ground and polished or blasted.
Grub screw and pin bright.

Sample order:
K0146.2032062

Drawing reference:
Form B: drilled through
Form C: blind hole
Form D: tapped and counterbored
Form E: tapped blind hole
Form L: external thread

Palm grips

stainless steel, similar to DIN 6335

KIPP Palm grips stainless steel, similar to DIN 6335

Order No. Form B	Order No. Form C	Version	D1	D2	D4	H2	H3	T1	T2
K0146.2032062	**K0146.3032062**	polished	32	12	6	21	10	-/15	-/12
K0146.2040082	**K0146.3040082**	polished	40	14	8	26	13	-/18	-/15
K0146.2050102	**K0146.3050102**	polished	50	18	10	34	17	-/21	-/18
K0146.2063122	**K0146.3063122**	polished	63	20	12	42	21	-/25	-/22
K0146.2032063	**K0146.3032063**	blasted	32	12	6	21	10	-/15	-/12
K0146.2040083	**K0146.3040083**	blasted	40	14	8	26	13	-/18	-/15
K0146.2050103	**K0146.3050103**	blasted	50	18	10	34	17	-/21	-/18
K0146.2063123	**K0146.3063123**	blasted	63	20	12	42	21	-/25	-/22

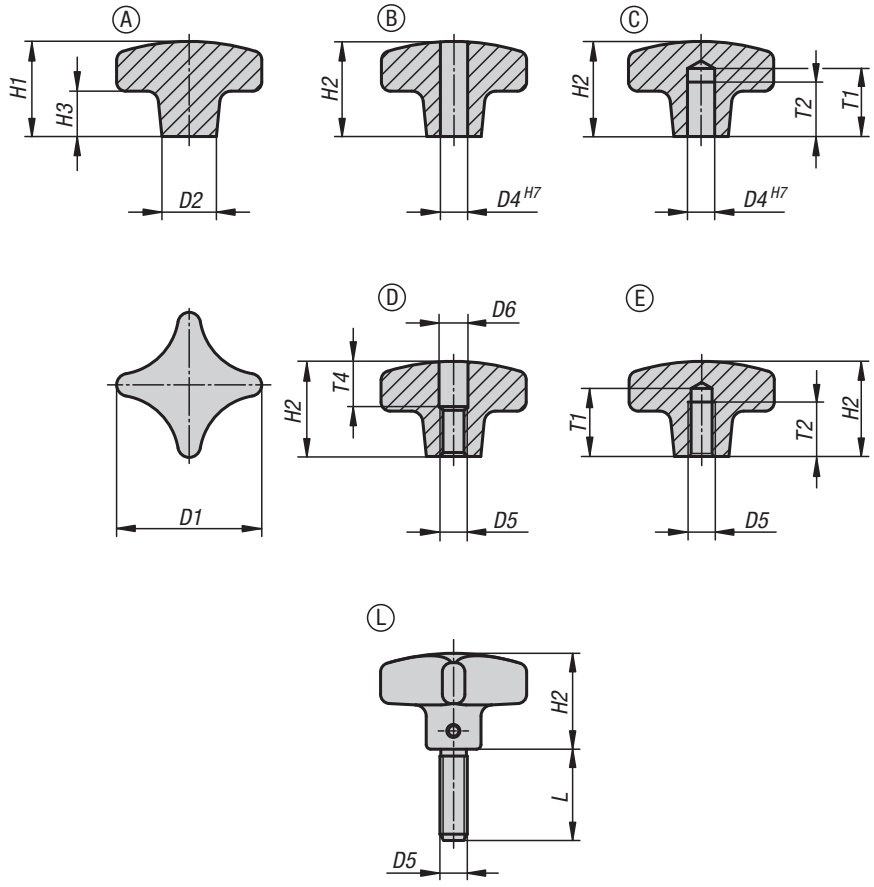
Order No. Form D	Order No. Form E	Version	D1	D2	D5	D6	H2	H3	T1	T2	T4
K0146.4032062	**K0146.5032062**	polished	32	12	M6	6,4/-	21	10	-/15	-/12	10/-
K0146.4040082	**K0146.5040082**	polished	40	14	M8	8,4/-	26	13	-/18	-/15	12/-
K0146.4050102	**K0146.5050102**	polished	50	18	M10	10,5/-	34	17	-/21	-/18	16/-
K0146.4063122	**K0146.5063122**	polished	63	20	M12	13/-	42	21	-/25	-/22	20/-
K0146.4032063	**K0146.5032063**	blasted	32	12	M6	6,4/-	21	10	-/15	-/12	10/-
K0146.4040083	**K0146.5040083**	blasted	40	14	M8	8,4/-	26	13	-/18	-/15	12/-
K0146.4050103	**K0146.5050103**	blasted	50	18	M10	10,5/-	34	17	-/21	-/18	16/-
K0146.4063123	**K0146.5063123**	blasted	63	20	M12	13/-	42	21	-/25	-/22	20/-

Order No.	Form	Version	D1	D2	D5	H2	H3	L
K0146.6032063X	L	blasted	32	12	M6	21	10	15/20/25/30/40/50
K0146.6040083X	L	blasted	40	14	M8	26	13	20/25/30/40/50
K0146.6050103X	L	blasted	50	18	M10	34	17	20/25/30/40/50
K0146.6063123X	L	blasted	63	20	M12	42	21	20/30/40/50

Palm grips

grey cast iron, DIN 6335



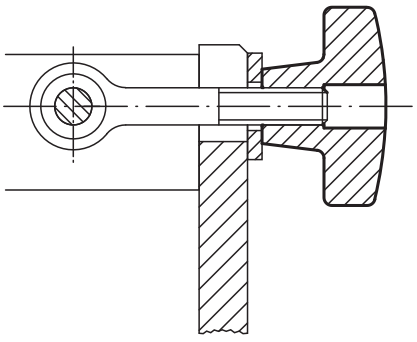


Material:
Grey cast iron GJL 200.
Grub screw stainless steel 1.4305.
Pin stainless steel 1.4310.

Version:
Vibratory ground, bright.
Grub screw and pin bright.

Sample order:
K0147.106

Drawing reference:
Form A: blank
Form B: drilled through
Form C: blind hole
Form D: tapped and counterbored
Form E: tapped blind hole
Form L: external thread



Palm grips

grey cast iron, DIN 6335

KIPP Palm grips grey cast iron DIN 6335

Order No. Form A	Order No. Form B	Version	D1	D2	D4	H1	H2	H3
K0147.106	**K0147.206**	tumbled	32	12	-/6	21/-	-/20	10/-
K0147.108	**K0147.208**	tumbled	40	14	-/8	26/-	-/25	14/-
K0147.110	**K0147.210**	tumbled	50	18	-/10	34/-	-/32	20/-
K0147.112	**K0147.212**	tumbled	63	20	-/12	42/-	-/40	25/-
K0147.116	**K0147.216**	tumbled	80	25	-/16	52/-	-/50	30/-
K0147.120	**K0147.220**	tumbled	100	32	-/20	65/-	-/63	38/-

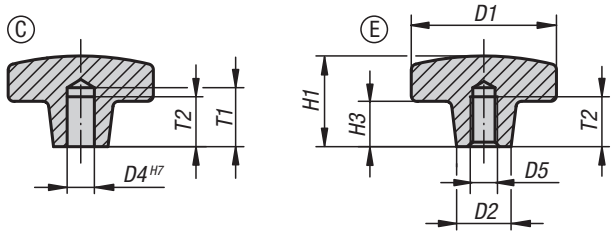
Order No. Form C	Order No. Form D	Order No. Form E	Version	D1	D2	D4	D5	D6	H2	T1	T2	T4
K0147.306	**K0147.406**	**K0147.506**	tumbled	32	12	6/-/-	-/M6/M6	-/6,4/-	20/20/20	15/-/15	12/-/12	-/10/-
K0147.308	**K0147.408**	**K0147.508**	tumbled	40	14	8/-/-	-/M8/M8	-/8,4/-	25/25/25	18/-/18	15/-/15	-/12/-
K0147.310	**K0147.410**	**K0147.510**	tumbled	50	18	10/-/-	-/M10/M10	-/10,5/-	32/32/32	21/-/21	18/-/18	-/16/-
K0147.312	**K0147.412**	**K0147.512**	tumbled	63	20	12/-/-	-/M12/M12	-/13/-	40/40/40	25/-/25	22/-/22	-/20/-
K0147.316	**K0147.416**	**K0147.516**	tumbled	80	25	16/-/-	-/M16/M16	-/17/-	50/50/50	32/-/32	28/-/28	-/30/-
K0147.320	**K0147.420**	**K0147.520**	tumbled	100	32	20/-/-	-/M20/M20	-/21/-	63/63/63	40/-/40	36/-/36	-/38/-

Order No.	Form	Version	D1	D2	D5	H2	L
K0147.606X	L	tumbled	32	12	M6	20	15/20/25/30/40/50
K0147.608X	L	tumbled	40	14	M8	25	20/25/30/40/50
K0147.610X	L	tumbled	50	18	M10	32	20/25/30/40/50
K0147.612X	L	tumbled	63	20	M12	40	20/30/40/50

Palm grips

plastic coated grey cast iron, DIN 6335





Material:
Grey cast iron GJL 200.

Version:
Plastic coated.

Sample order:
K0682.212

Note:
Available colours:
Pure orange RAL 2004.
Jet black RAL 9005.

Drawing reference:
Form C: blind hole
Form E: tapped blind hole

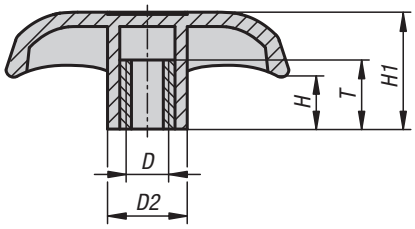
KIPP Palm grips, plastic coated grey cast iron, DIN 6335

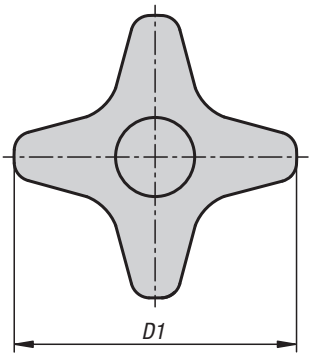
Order No. orange	Order No. black	Form	D1	D2	D4	D5	H1	H3	T1	T2
K0682.108	**K0682.208**	C	40	14	8	-	26	14	18	15
K0682.110	**K0682.210**	C	50	18	10	-	34	20	21	18
K0682.112	**K0682.212**	C	63	20	12	-	42	25	25	22
K0682.116	**K0682.216**	C	80	25	16	-	52	30	32	28
K0682.308	**K0682.408**	E	40	14	-	M8	26	14	-	15
K0682.310	**K0682.410**	E	50	18	-	M10	34	20	-	18
K0682.312	**K0682.412**	E	63	20	-	M12	42	25	-	22
K0682.316	**K0682.416**	E	80	25	-	M16	52	30	-	28

Palm grips soft

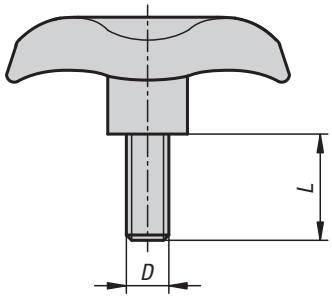


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Material:
Body hard thermoplastic.
Coating soft thermoplastic.
Bush or screw steel 5.8.

Version:
Body and coating black.
Bush and screw galvanized.

Sample order:
K0613.5108X20 (include length L)

Note:
Palm grips with a soft gripping surface combine the stability of standard thermoplastic grips with the pleasant feel of the soft surface.
The soft coating creates a sympathetic, non-slip surface allowing higher clamping forces while protecting the hand.

KIPP Palm grips soft with internal thread

Order No.	Form	D	D1	D2	H	H1	T
K0613.5108	K	M8	51	15	10	22	13
K0613.5110	K	M10	51	15	10	22	13
K0613.7608	K	M8	76	19,5	13,5	28	20
K0613.7610	K	M10	76	19,5	13,5	28	20
K0613.7612	K	M12	76	19,5	13,5	28	20

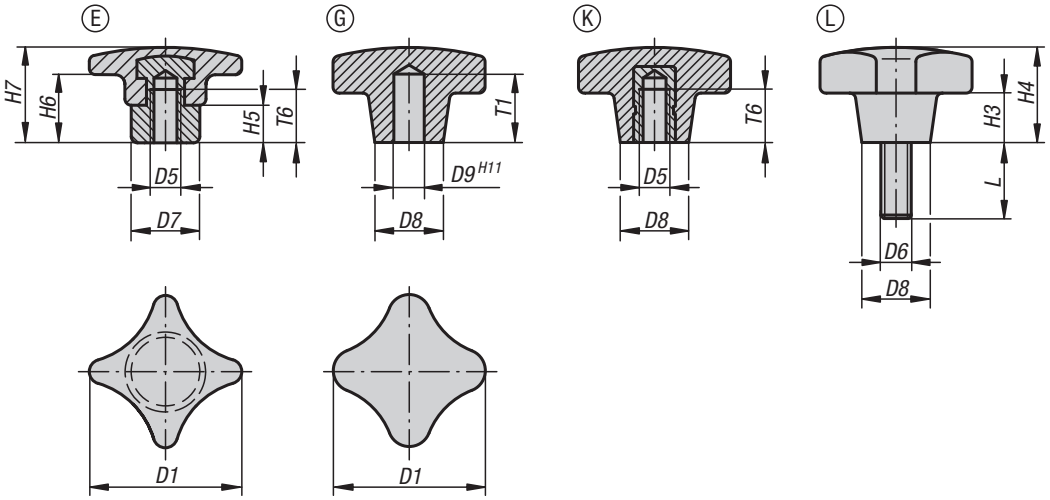
KIPP Palm grips soft with external thread

Order No.	Form	D	D1	D2	H	H1	L
K0613.5108X	L	M8	51	15	10	23	20/40
K0613.5110X	L	M10	51	15	10	23	20/40
K0613.7608X	L	M8	76	19,5	13,5	30	20/40
K0613.7610X	L	M10	76	19,5	13,5	30	20/40
K0613.7612X	L	M12	76	19,5	13,5	30	20/30/40

Palm grips

similar to DIN 6335





Material:
Black Duroplast PF 31.
Bush and screw galvanized steel.

Version:
High-gloss polished.

Sample order:
K0148.505X30 (include length L)

Drawing reference:
Form E: projecting steel bush
Form G: blind hole
Form K: tapped bush
Form L: external thread

Palm grips

similar to DIN 6335

KIPP Palm grips similar to DIN 6335, Form E

Order No.	Form	D1	D5	D7	H5	H6	H7	T6
K0148.306	E	32	M6	12	9	12	23	12
K0148.308	E	40	M8	14	10	13	26	15
K0148.310	E	50	M10	18	12	18	32	18
K0148.312	E	63	M12	20	14	23	40	22
K0148.316	E	80	M16	25	17	28	50	28

KIPP Palm grips similar to DIN 6335, Form G

Order No.	Form	D1	D8	D9	H3	H4	T1
K0148.405	G	25	12	5	8	16	12
K0148.406	G	32	14	6	10	20	15
K0148.408	G	40	18	8	13	25	18
K0148.410	G	50	22	10	20	32	21
K0148.412	G	63	26	12	25	40	25

KIPP Palm grips similar to DIN 6335, Form K

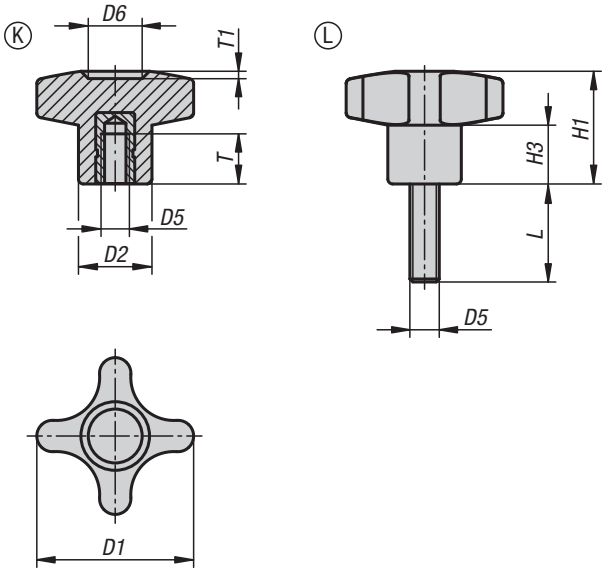
Order No.	Form	D1	D5	D8	H3	H4	T6
K0148.205	K	25	M5	12	8	16	9,5
K0148.206	K	32	M6	14	10	20	12
K0148.208	K	40	M8	18	13	25	14
K0148.210	K	50	M10	22	20	32	18
K0148.212	K	63	M12	26	25	40	22
K0148.216	K	80	M16	35	30	50	30

KIPP Palm grips similar to DIN 6335, Form L

Order No.	Form	D1	D6	D8	H3	H4	L
K0148.505X	L	25	M5	12	8	16	15/20/25/30/40/50
K0148.506X	L	32	M6	14	10	20	15/20/25/30/40/50
K0148.508X	L	40	M8	18	13	25	20/25/30/35/40/45/50
K0148.510X	L	50	M10	22	20	32	20/25/30/35/40/45/50
K0148.512X	L	63	M12	26	25	40	20/30/40/50/60

Palm grips





Material:
Fibreglass reinforced thermoplastic.
Tapped bush brass.
Screw steel.

Version:
Grip, black.
Screw galvanized.

Sample order:
K1089.43205X30 (include length L)

KIPP Palm grips with internal thread

Order No.	Form	D1	D2	D5	D6	H1	H3	T	T1
K1089.23205	K	32	15	M5	11	23	12	14	1,5
K1089.23206	K	32	15	M6	11	23	12	14	1,5
K1089.24008	K	40	16	M8	13	24,5	12,5	14	1,5
K1089.25010	K	50	20	M10	14	29	15	14	2
K1089.26012	K	60	24	M12	18	34	18,5	18	2

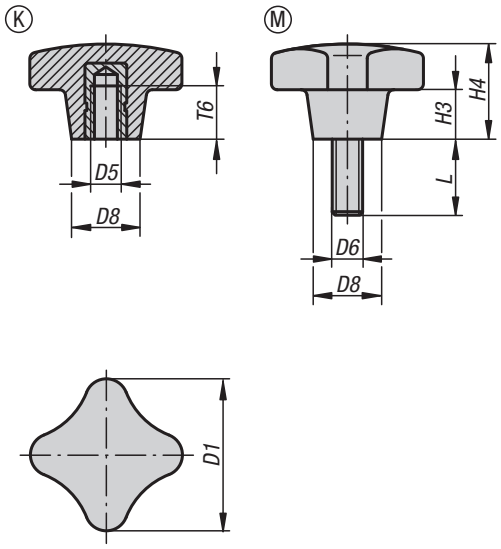
KIPP Palm grips with external thread

Order No.	Form	D1	D2	D5	D6	H1	H3	T1	L
K1089.43205X	L	32	15	M5	11	23	11	1,5	16/20
K1089.43206X	L	32	15	M6	11	23	11	1,5	16/20/30
K1089.43208X	L	32	15	M8	11	23	11	1,5	16/20/30/40
K1089.44006X	L	40	15,7	M6	12	24,5	12,5	1	20/30
K1089.44008X	L	40	15,7	M8	12	24,5	12,5	1	20/30/40/50
K1089.45008X	L	50	20	M8	14,5	29	15	1,5	20/30/40
K1089.45010X	L	50	20	M10	14,5	29	15	1,5	20/30/40/50
K1089.46010X	L	60	24	M10	18	34	18,5	1,5	20/30/40/50
K1089.46012X	L	60	24	M12	18	34	18,5	1,5	20/30/40/50

Palm grips

similar to DIN 6335, metal parts stainless steel





Material:
Duroplast PF 31, black.
Metal parts stainless steel 1.4301.

Version:
High-gloss polished, black.

Sample order:
K1017.22505 (Form K)
K1017.52505X15 (Form L)

Drawing reference:
Form K: tapped bush
Form L: external thread

KIPP Palm grips metal parts stainless steel Form K

Order No.	Component material	Form	D1	D5	D8	H3	H4	T6 min.
K1017.22505	stainless steel	K	25	M5	12	8	16	7,5
K1017.23206	stainless steel	K	32	M6	14	10	20	9
K1017.24008	stainless steel	K	40	M8	18	13	25	12
K1017.25010	stainless steel	K	50	M10	22	20	32	15
K1017.26312	stainless steel	K	63	M12	26	25	40	18

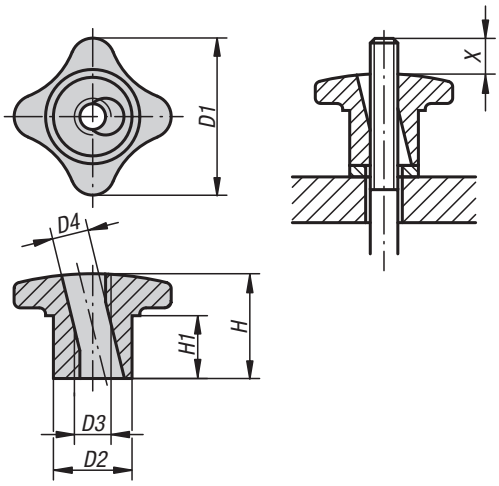
KIPP Palm grips metal parts stainless steel Form L

Order No.	Component material	Form	D1	D6	D8	H3	H4	L
K1017.52505X15	stainless steel	L	25	M5	12	8	16	15
K1017.52505X20	stainless steel	L	25	M5	12	8	16	20
K1017.53206X15	stainless steel	L	32	M6	14	10	20	15
K1017.53206X20	stainless steel	L	32	M6	14	10	20	20
K1017.53206X25	stainless steel	L	32	M6	14	10	20	25
K1017.53206X30	stainless steel	L	32	M6	14	10	20	30
K1017.53206X40	stainless steel	L	32	M6	14	10	20	40
K1017.53206X50	stainless steel	L	32	M6	14	10	20	50
K1017.54008X20	stainless steel	L	40	M8	18	13	25	20
K1017.54008X25	stainless steel	L	40	M8	18	13	25	25
K1017.54008X30	stainless steel	L	40	M8	18	13	25	30
K1017.54008X40	stainless steel	L	40	M8	18	13	25	40
K1017.54008X50	stainless steel	L	40	M8	18	13	25	50

Palm grips quick-acting

grey cast iron





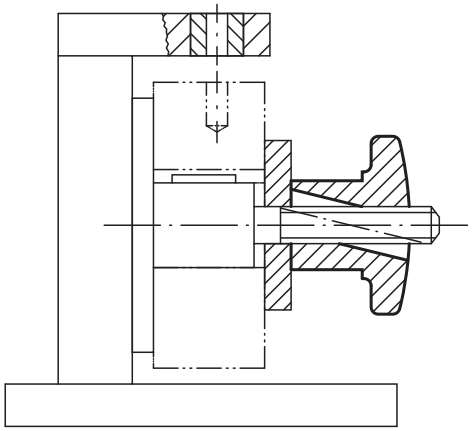
Material:
Grey cast iron GJL 300

Version:
Vibratory ground.

Sample order:
K0683.08

Note:
Quick-acting palm grips can be used on all fixtures that do not require a high clamping force.
Tilt the grip to slide on, then straighten it to engage the threads.

Drawing reference:
X: The stud should be several mm longer than height “H”



KIPP Palm grips quick-acting, grey cast iron

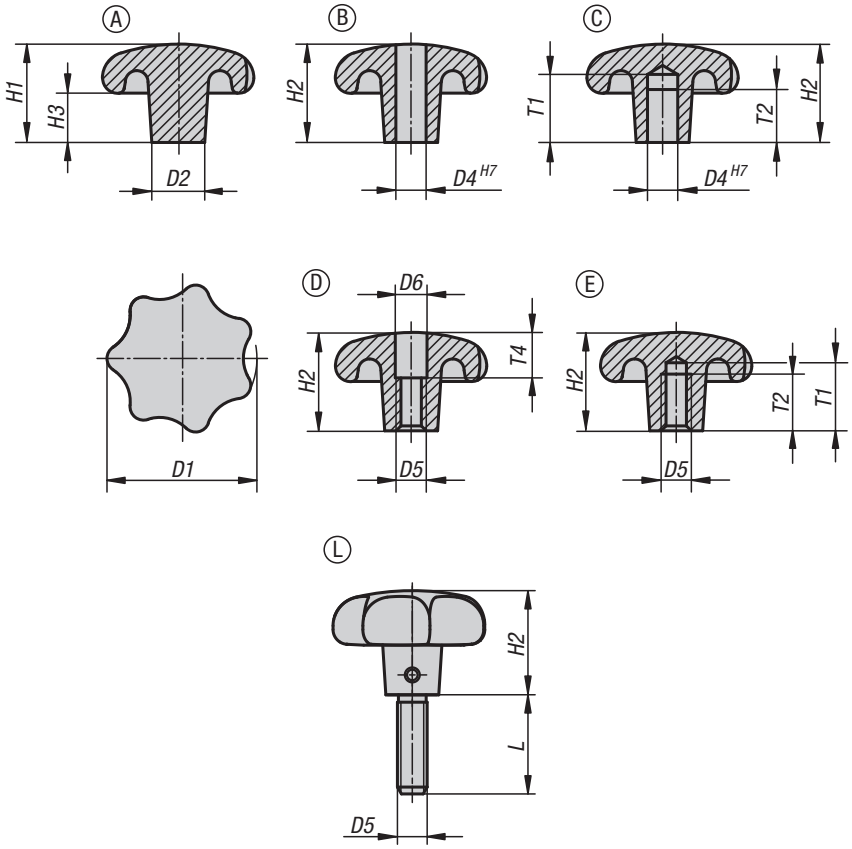
Order No.	D1	D2	D3	D4	H	H1
K0683.06	30	15	M6	7	20	10
K0683.08	40	18	M8	9,4	25	14
K0683.10	50	21	M10	11,3	30	16
K0683.12	60	26	M12	13,1	35	19
K0683.14	70	30	M14	15,6	40	22
K0683.16	80	34	M16	17,6	45	25

Notes

Star grips

aluminium, similar to DIN 6336





Material:
Aluminium.
Grub screw stainless steel 1.4305.
Pin stainless steel 1.4310.

Version:
Vibratory ground or ground and polished.
Grub screw and pin bright.

Sample order:
K0149.14008

On request:
Blank star grips (not tumbled).

Drawing reference:
Form A: blank
Form B: drilled through
Form C: blind hole
Form D: tapped and counterbored
Form E: tapped blind hole
Form L: external thread

KIPP Star grips, aluminium, similar to DIN 6336

Order No.	Version	Form	D1	D2	H1	H3
K0149.14008	tumbled	A	40	14	26	13
K0149.15010	tumbled	A	50	18	34	17
K0149.16312	tumbled	A	63	20	42	21
K0149.18016	tumbled	A	80	25	52	25

Order No. tumbled	Order No. polished	Form	D1	D2	D4	H2
K0149.24008	**K0149.240082**	B	40	14	8	25
K0149.25010	**K0149.250102**	B	50	18	10	32
K0149.26312	**K0149.263122**	B	63	20	12	40
K0149.28016	**K0149.280162**	B	80	25	16	50

Star grips

aluminium, similar to DIN 6336

Order No. tumbled	Order No. polished	Form	D1	D2	D4	H2	T1	T2
K0149.34008	**K0149.340082**	C	40	14	8	25	18	15
K0149.35010	**K0149.350102**	C	50	18	10	32	21	18
K0149.36312	**K0149.363122**	C	63	20	12	40	25	22
K0149.38016	**K0149.380162**	C	80	25	16	50	32	28

Order No. tumbled	Order No. polished	Form	D1	D2	D5	D6	H2	T4
K0149.44008	**K0149.440082**	D	40	14	M8	8,4	25	12
K0149.45010	**K0149.450102**	D	50	18	M10	10,5	32	16
K0149.46312	**K0149.463122**	D	63	20	M12	13	40	20
K0149.48016	**K0149.480162**	D	80	25	M16	17	50	30

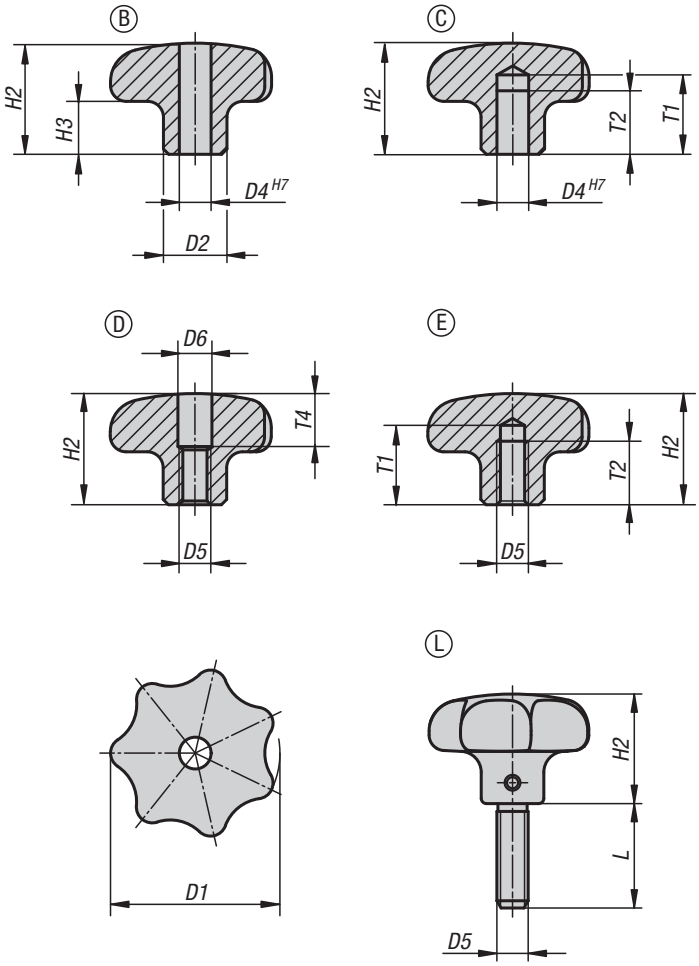
Order No. tumbled	Order No. polished	Form	D1	D2	D5	H2	T1	T2
K0149.54008	**K0149.540082**	E	40	14	M8	25	18	15
K0149.55010	**K0149.550102**	E	50	18	M10	32	21	18
K0149.56312	**K0149.563122**	E	63	20	M12	40	25	22
K0149.58016	**K0149.580162**	E	80	25	M16	50	32	28

Order No.	Form	Version	D1	D2	D5	H2	L
K0149.64008X	L	tumbled	40	14	M8	25	20/25/30/40
K0149.65010X	L	tumbled	50	18	M10	32	25/30/40/50
K0149.66312X	L	tumbled	63	20	M12	40	30/40/50/60

Star grips

stainless steel, similar to DIN 6336





Material:
Stainless steel 1.4308.
Grub screw stainless steel 1.4305.
Pin stainless steel 1.4310.

Version:
Ground and polished or blasted.
Grub screw and pin bright.

Sample order:
K0150.232062

Drawing reference:
Form B: drilled through
Form C: blind hole
Form D: tapped and counterbored
Form E: tapped blind hole
Form L: external thread

Star grips

stainless steel, similar to DIN 6336

KIPP Star grips in stainless steel, similar to DIN 6336

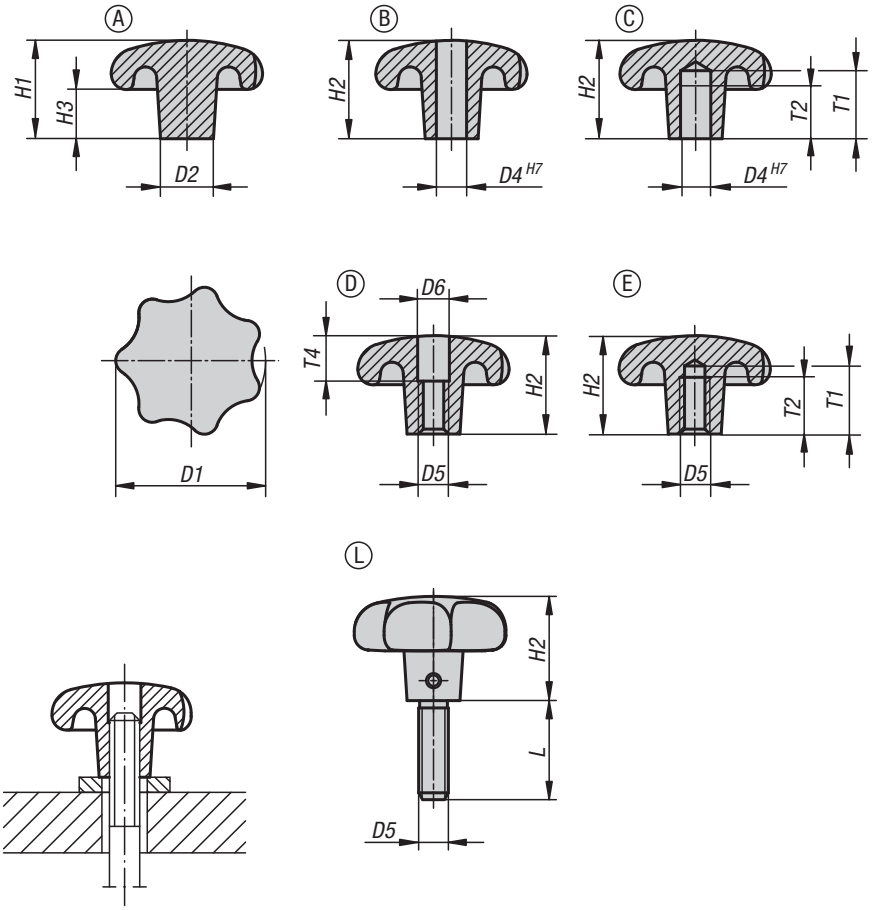
Order No. Form B	Order No. Form C	Version	D1	D2	D4	H2	H3	T1	T2
K0150.232062	**K0150.332062**	polished	32	12	6	21	10	-/15	-/12
K0150.240082	**K0150.340082**	polished	40	14	8	26	13	-/18	-/15
K0150.250102	**K0150.350102**	polished	50	18	10	34	17	-/21	-/18
K0150.263122	**K0150.363122**	polished	63	20	12	42	21	-/25	-/22
K0150.232063	**K0150.332063**	blasted	32	12	6	21	10	-/15	-/12
K0150.240083	**K0150.340083**	blasted	40	14	8	26	13	-/18	-/15
K0150.250103	**K0150.350103**	blasted	50	18	10	34	17	-/21	-/18
K0150.263123	**K0150.363123**	blasted	63	20	12	42	21	-/25	-/22

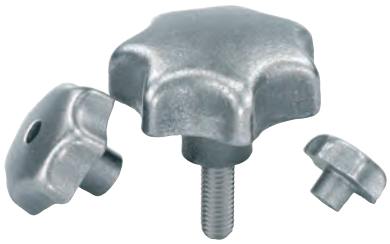
Order No. Form D	Order No. Form E	Version	D1	D2	D5	D6	H2	H3	T1	T2	T4
K0150.432062	**K0150.532062**	polished	32	12	M6	6,4/-	21	10	-/15	-/12	10/-
K0150.440082	**K0150.540082**	polished	40	14	M8	8,4/-	26	13	-/18	-/15	12/-
K0150.450102	**K0150.550102**	polished	50	18	M10	10,5/-	34	17	-/21	-/18	16/-
K0150.463122	**K0150.563122**	polished	63	20	M12	13/-	42	21	-/25	-/22	20/-
K0150.432063	**K0150.532063**	blasted	32	12	M6	6,4/-	21	10	-/15	-/12	10/-
K0150.440083	**K0150.540083**	blasted	40	14	M8	8,4/-	26	13	-/18	-/15	12/-
K0150.450103	**K0150.550103**	blasted	50	18	M10	10,5/-	34	17	-/21	-/18	16/-
K0150.463123	**K0150.563123**	blasted	63	20	M12	13/-	42	21	-/25	-/22	20/-

Order No.	Form	Version	D1	D2	D5	H2	H3	L
K0150.632063X	L	blasted	32	12	M6	21	10	15/20/25/30
K0150.640083X	L	blasted	40	14	M8	26	13	20/25/30/40
K0150.650103X	L	blasted	50	18	M10	34	17	25/30/40/50
K0150.663123X	L	blasted	63	20	M12	42	21	30/40/50/60

Star grips

grey cast iron, DIN 6336





Material:
Grey cast iron GJL 200.
Grub screw stainless steel 1.4305.
Pin stainless steel 1.4310.

Version:
Vibratory ground, bright.
Grub screw and pin bright.

Sample order:
K0151.106

On request:
Grips with a plastic coating.

Drawing reference:
Form A: blank
Form B: drilled through
Form C: blind hole
Form D: tapped and counterbored
Form E: tapped blind hole
Form L: external thread

KIPP Star grips, grey cast iron, DIN 6336

Order No. Form A	Order No. Form B	Version	D1	D2	D4	H1	H2	H3
K0151.106	**K0151.206**	tumbled	32	12	-/6	21/-	-/20	10/-
K0151.108	**K0151.208**	tumbled	40	14	-/8	26/-	-/25	13/-
K0151.110	**K0151.210**	tumbled	50	18	-/10	34/-	-/32	17/-
K0151.112	**K0151.212**	tumbled	63	20	-/12	42/-	-/40	21/-
K0151.116	**K0151.216**	tumbled	80	25	-/16	52/-	-/50	25/-

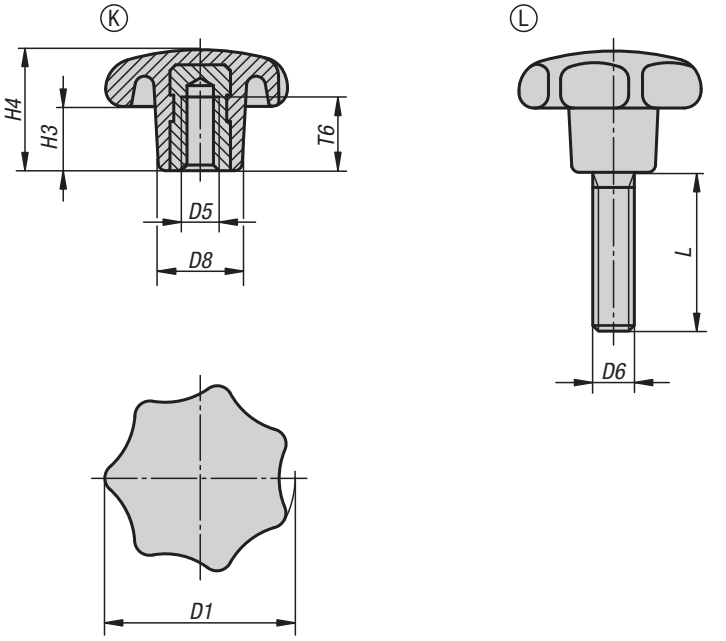
Order No. Form C	Order No. Form D	Order No. Form E	Version	D1	D2	D4	D5	D6	H2	T1	T2	T4
K0151.306	**K0151.406**	**K0151.506**	tumbled	32	12	6/-/-	-/M6/M6	-/6,4/-	20/20/20	15/-/15	12/-/12	-/10/-
K0151.308	**K0151.408**	**K0151.508**	tumbled	40	14	8/-/-	-/M8/M8	-/8,4/-	25/25/25	18/-/18	15/-/15	-/12/-
K0151.310	**K0151.410**	**K0151.510**	tumbled	50	18	10/-/-	-/M10/M10	-/10,5/-	32/32/32	21/-/21	18/-/18	-/16/-
K0151.312	**K0151.412**	**K0151.512**	tumbled	63	20	12/-/-	-/M12/M12	-/13/-	40/40/40	25/-/25	22/-/22	-/20/-
K0151.316	**K0151.416**	**K0151.516**	tumbled	80	25	16/-/-	-/M16/M16	-/17/-	50/50/50	32/-/32	28/-/28	-/30/-

Order No.	Form	Version	D1	D2	D5	H2	L
K0151.606X	L	tumbled	32	12	M6	20	15/20/25/30
K0151.608X	L	tumbled	40	14	M8	25	20/25/30/40
K0151.610X	L	tumbled	50	18	M10	32	25/30/40/50
K0151.612X	L	tumbled	63	20	M12	40	30/40/50/60

Star grips

similar to DIN 6336





Material:
Duroplast PF 31, black.
Bush and screw steel, galvanized and blue passivated.

Version:
High-gloss polished.

Sample order:
K0152.42505X15 (include length L.)

Note:
The version K0152.22004 has a brass bush.

On request:
Other colours.

Drawing reference:
Form K: tapped bush
Form L: external thread

KIPP Star grips similar to DIN 6336 with internal thread, Form K

Order No.	Form	D1	D5	D8	H3	H4	T6
K0152.22004	K	20	M4	10	7	13	6,5
K0152.22505	K	25	M5	12	8	16	9,5
K0152.23206	K	32	M6	14	10	20	12
K0152.24008	K	40	M8	18	13	25	14
K0152.25010	K	50	M10	22	17	32	18
K0152.26312	K	63	M12	26	21	40	22
K0152.28016	K	80	M16	35	25	50	30

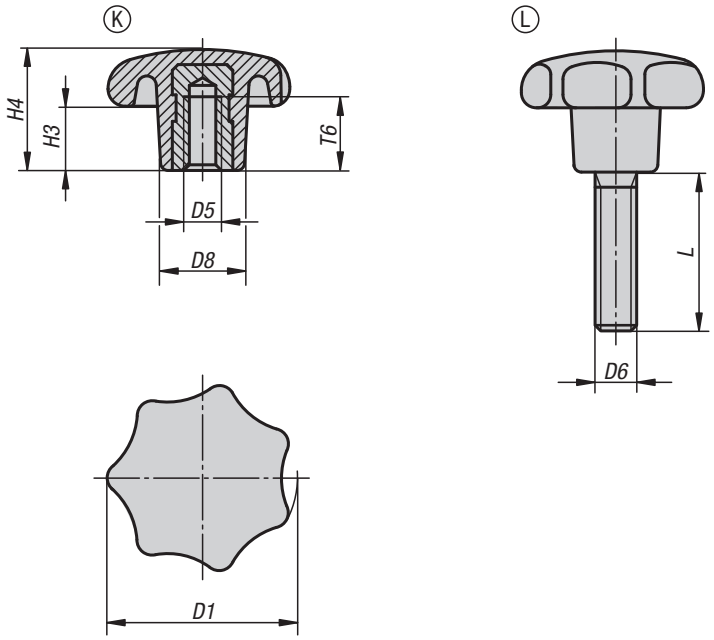
KIPP Star grips similar to DIN 6336 with external thread, Form L

Order No.	Form	D1	D6	D8	H3	H4	L
K0152.42505X	L	25	M5	12	8	16	15/20/25
K0152.43206X	L	32	M6	14	10	20	15/20/25/30
K0152.44008X	L	40	M8	18	13	25	20/25/30/35/40
K0152.45010X	L	50	M10	22	17	32	25/30/35/40/50
K0152.46312X	L	63	M12	26	21	40	30/35/40/50/60
K0152.48016X	L	80	M16	35	25	50	30/40/50/60

Star grips

similar to DIN 6336 metal parts stainless steel





Material:
Duroplast PF 31, black.
Bushing or threaded pin stainless steel 1.4301.

Version:
High-gloss polished.

Sample order:
K1016.24008

On request:
Other colours.

Drawing reference:
Form K: tapped bush
Form L: external thread

KIPP Star grips similar to DIN 6336, metal parts stainless steel, internal thread, with cap, Form K

Order No.	Component material	Form	D1	D5	D8	H3	H4	T6	T6 min.
K1016.23206	stainless steel	K	32	M6	14	10	20	12	9
K1016.24008	stainless steel	K	40	M8	18	13	25	14	12
K1016.25010	stainless steel	K	50	M10	22	17	32	18	15
K1016.26312	stainless steel	K	63	M12	26	21	40	22	18

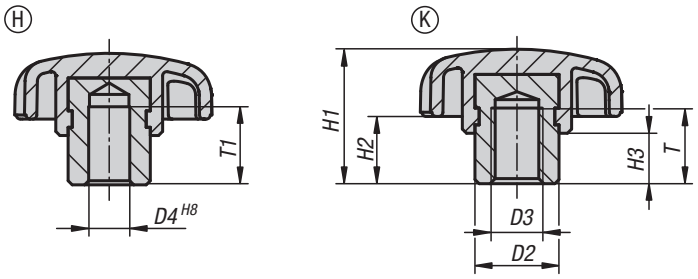
KIPP Star grips similar to DIN 6336 metal parts stainless steel, with external thread, Form L

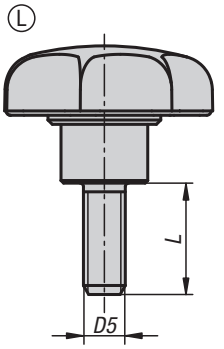
Order No.	Component material	Form	D1	L	D6	D8	H3	H4
K1016.43206X15	stainless steel	L	32	15	M6	14	10	20
K1016.43206X20	stainless steel	L	32	20	M6	14	10	20
K1016.43206X25	stainless steel	L	32	25	M6	14	10	20
K1016.43206X30	stainless steel	L	32	30	M6	14	10	20
K1016.44008X20	stainless steel	L	40	20	M8	18	13	25
K1016.44008X25	stainless steel	L	40	25	M8	18	13	25
K1016.44008X30	stainless steel	L	40	30	M8	18	13	25
K1016.44008X40	stainless steel	L	40	40	M8	18	13	25

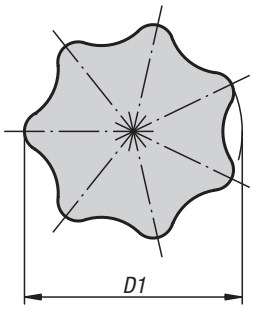
Notes

Star grips

with projecting steel bush









Material:
Black thermoplastic.
Steel grade 5.8 or stainless steel 1.4305.

Version:
Metal parts blue passivated steel or bright stainless steel.

Sample order:
K0153.2081

Note:
The projecting steel bush make these star grips very suitable as blind hole or internal thread versions especially for cross pinning.

Drawing reference:
Form H: bush with blind hole
Form K: tapped bush
Form L: external thread

KIPP Star grips with projecting steel bush, Form H

Order No.	Component material	Form	D4	T1	D1	D2	H1	H2	H3
K0153.105	steel	H	5	9,5	25	10	17	9	7
K0153.106	steel	H	6	12,5	32	13,5	21	11	9,5
K0153.1061	steel	H	6	12,5	40	13,5	25	13	10
K0153.108	steel	H	8	12,5	40	13,5	25	13	10
K0153.1081	steel	H	8	19,5	50	19	32	17	12
K0153.110	steel	H	10	19,5	50	19	32	17	12
K0153.1101	steel	H	10	19,5	63	19	37	18	12
K0153.112	steel	H	12	19,5	63	19	37	18	12
K0153.116	steel	H	16	24,5	63	23	40	21	15

Star grips

with projecting steel bush

KIPP Star grips with projecting steel bush, Form K

Order No. steel	Order No. stainless steel	Form	D3	T	D1	D2	H1	H2	H3
K0153.205	**K0153.305**	K	M5	9	25	10	17	9	7
K0153.206	**K0153.306**	K	M6	12	32	13,5	21	11	9,5
K0153.2061	**K0153.3061**	K	M6	12	40	13,5	25	13	10
K0153.208	**K0153.308**	K	M8	12	40	13,5	25	13	10
K0153.2081	**K0153.3081**	K	M8	17	50	19	32	17	12
K0153.210	**K0153.310**	K	M10	17	50	19	32	17	12
K0153.2101	**K0153.3101**	K	M10	17	63	19	37	18	12
K0153.212	**K0153.312**	K	M12	17	63	19	37	18	12
K0153.216	**K0153.316**	K	M16	23	63	23	40	21	15

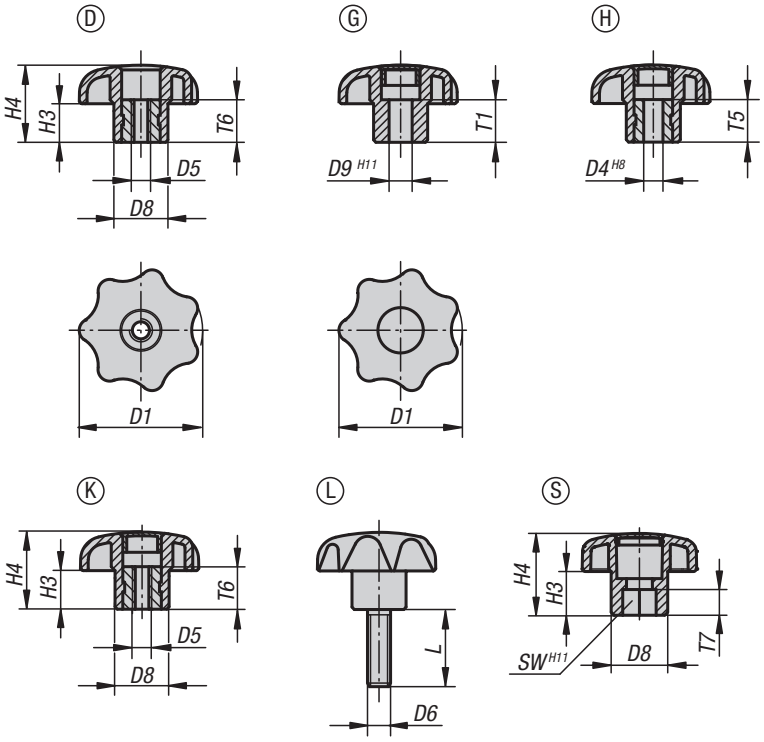
KIPP Star grips with external thread, Form L

Order No. steel	Order No. stainless steel	Form	D5	D1	D2	H1	H2	H3	L
K0153.405X	**K0153.505X**	L	M5	25	10	17	9	7	10/15/20
K0153.406X	**K0153.506X**	L	M6	32	13,5	21	11	9,5	10/15/20/25/30
K0153.408X	**K0153.508X**	L	M8	40	13,5	25	13	10	15/20/25/30/40/50
K0153.410X	**K0153.510X**	L	M10	50	19	32	17	12	20/25/30/40/50/60
K0153.412X	**K0153.512X**	L	M12	63	19	37	18	12	20/25/30/40/50/60

Star grips

similar to DIN 6336





Material:
Black thermoplastic.
Bush and screw steel.

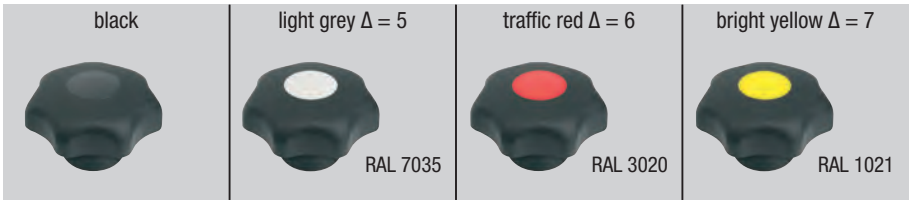
Version:
Bush and screw, galvanized and blue passivated.

Sample order:
K0155.4127X30
(Cap colour bright yellow; include length L)

Note:
Δ Add the desired cap colour code here. No colour code is required for black caps.

On request:
Other colours or designs, such as company logo.

Drawing reference:
Form D: tapped bush without cap
Form G: without bush
Form H: with reamed bush
Form K: tapped bush with cap
Form L: external thread
Form S: hexagon



KIPP Star grips similar to DIN 6336, Form D and S

Order No.	Form	D1	D5	D8	H3	H4	SW	T6	T7
K0155.504	D	25	M4	12	8	16	-	10	-
K0155.505	D	25	M5	12	8	16	-	10	-
K0155.5061	D	25	M6	12	8	16	-	10	-
K0155.5051	D	32	M5	14	10	20	-	10	-
K0155.506	D	32	M6	14	10	20	-	10	-
K0155.508	D	40	M8	18	13	25	-	14	-
K0155.5101	D	40	M10	18	13	25	-	14	-
K0155.5081	D	50	M8	22	17	32	-	14	-
K0155.510	D	50	M10	22	17	32	-	14	-
K0155.5121	D	50	M12	22	17	32	-	18	-
K0155.5102	D	63	M10	26	21	40	-	14	-
K0155.512	D	63	M12	26	21	40	-	18	-
K0155.516	D	63	M16	26	21	40	-	18	-
K0155.808	S	32	-	14	9,2	19,6	8	-	5
K0155.810	S	40	-	18	13	24,5	10	-	10
K0155.813	S	50	-	22	17	31,2	13	-	10
K0155.816	S	63	-	26	21	39,4	16	-	15

Star grips

similar to DIN 6336

examples of grip cap designs



KIPP Star grips similar to DIN 6336, internal thread with cap, Form K

Order No.	Form	D1	D5	D8	H3	H4	T6
K0155.204Δ	K	25	M4	12	8	16	10
K0155.205Δ	K	25	M5	12	8	16	10
K0155.2061Δ	K	25	M6	12	8	16	10
K0155.2051Δ	K	32	M5	14	10	20	10
K0155.206Δ	K	32	M6	14	10	20	10
K0155.208Δ	K	40	M8	18	13	25	14
K0155.2101Δ	K	40	M10	18	13	25	14
K0155.2081Δ	K	50	M8	22	17	32	14
K0155.210Δ	K	50	M10	22	17	32	14
K0155.2121Δ	K	50	M12	22	17	32	18
K0155.2102Δ	K	63	M10	26	21	40	14
K0155.212Δ	K	63	M12	26	21	40	18
K0155.216Δ	K	63	M16	26	21	40	18

KIPP Star grips similar to DIN 6336 with reamed hole, Form G and H

Order No. Form G	Order No. Form H	D1	D4	D8	D9	H3	H4	T1	T5
K0155.305Δ	K0155.105Δ	25	-/5	12	5/-	8	16	10/-	-/10
K0155.306Δ	K0155.106Δ	32	-/6	14	6/-	10	20	10/-	-/10
K0155.308Δ	K0155.108Δ	40	-/8	18	8/-	13	25	14/-	-/14
K0155.310Δ	K0155.110Δ	50	-/10	22	10/-	17	32	14/-	-/14
-	K0155.1101Δ	63	10	26	-	21	40	-	14
K0155.312Δ	K0155.112Δ	63	-/12	26	12/-	21	40	18/-	-/18

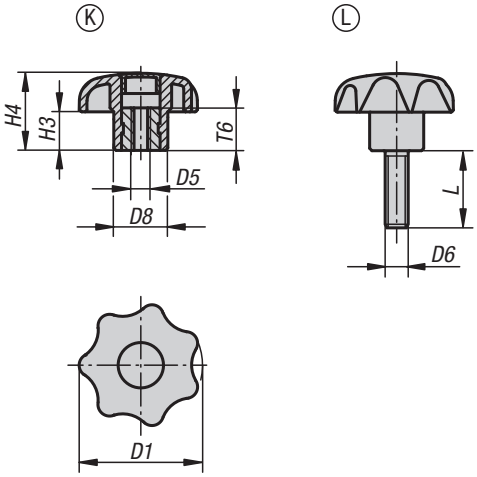
KIPP Star grips similar to DIN 6336 with external thread, Form L

Order No.	Form	D1	D6	D8	H3	H4	L
K0155.405ΔX	L	25	M5	12	8	16	10/15/20/25/30/35/40/45/50/60
K0155.406ΔX	L	25	M6	12	8	16	10/15/20/25/30/35/40/45/50/60
K0155.4061ΔX	L	32	M6	14	10	20	10/15/20/25/30/35/40/45/50/60
K0155.408ΔX	L	32	M8	14	10	20	15/20/25/30/35/40/45/50/60
K0155.4081ΔX	L	40	M8	18	13	25	15/20/25/30/35/40/45/50/60
K0155.410ΔX	L	40	M10	18	13	25	15/20/25/30/35/40/45/50/60
K0155.4101ΔX	L	50	M10	22	17	32	15/20/25/30/35/40/45/50/60
K0155.412ΔX	L	50	M12	22	17	32	15/20/25/30/35/40/45/50/60
K0155.4102ΔX	L	63	M10	26	21	40	20/25/30/35/40/45/50/60
K0155.4121ΔX	L	63	M12	26	21	40	20/25/30/35/40/45/50/60
K0155.416ΔX	L	63	M16	26	21	40	30/35/40/45/50/60

Star grips biopolymer

similar to DIN 6336





Material:
Grip biopolymer.
Bush and screw steel.

Version:
Bush and screw, galvanized and blue passivated.
Natural beech with beech fibres or coloured black grey.

Sample order:
K0155.10406190X15

Advantages:
This biopolymer is manufactured entirely from renewable raw materials (oil free).
Conservation of finite fossil resources.
The wood fibres originate 100% from local forests in Germany.
PEFC certified (guarantees that wood products originate from sustainably managed forests).

Features:
Excellent mechanical stability (certified with a minimum of 2x safety factor).
Biopolymer is suitable for recycling (comparable to thermoplastics).
Suitable for outdoor use (not biodegradable).
Excellent resistance to strong acids and lyes.
Short-term resistance to alcohol, fuel, mineral oil and grease.

Star grips biopolymer

similar to DIN 6336

KIPP Star grips biopolymer similar to DIN 6336, internal thread

Order No.	Main colour	Form	D1	D5	D8	H3	H4	T6
K0155.102051143	natural beech	K	32	M5	14	10	20	10
K0155.10206143	natural beech	K	32	M6	14	10	20	10
K0155.10208143	natural beech	K	40	M8	18	13	25	14
K0155.102081143	natural beech	K	50	M8	22	17	32	14
K0155.102101143	natural beech	K	40	M10	18	13	25	14
K0155.10210143	natural beech	K	50	M10	22	17	32	14
K0155.102121143	natural beech	K	50	M12	22	17	32	18
K0155.10205190	black grey RAL 7021	K	32	M5	14	10	20	10
K0155.1020690	black grey RAL 7021	K	32	M6	14	10	20	10
K0155.1020890	black grey RAL 7021	K	40	M8	18	13	25	14
K0155.10208190	black grey RAL 7021	K	50	M8	22	17	32	14
K0155.10210190	black grey RAL 7021	K	40	M10	18	13	25	14
K0155.1021090	black grey RAL 7021	K	50	M10	22	17	32	14
K0155.10212190	black grey RAL 7021	K	50	M12	22	17	32	18

KIPP Star grips biopolymer similar to DIN 6336, external thread

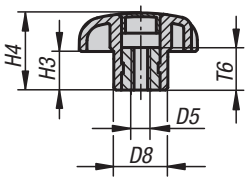
Order No.	Main colour	Form	D1	D6	D8	H3	H4	L
K0155.104061143X15	natural beech	L	32	M6	14	10	20	15
K0155.10408143X20	natural beech	L	32	M8	14	10	20	20
K0155.104081143X25	natural beech	L	40	M8	18	13	25	25
K0155.10410143X25	natural beech	L	40	M10	18	13	25	25
K0155.104101143X25	natural beech	L	50	M10	22	17	32	25
K0155.10412143X25	natural beech	L	50	M12	22	17	32	25
K0155.10406190X15	black grey RAL 7021	L	32	M6	14	10	20	15
K0155.1040890X20	black grey RAL 7021	L	32	M8	14	10	20	20
K0155.10408190X25	black grey RAL 7021	L	40	M8	18	13	25	25
K0155.1041090X25	black grey RAL 7021	L	40	M10	18	13	25	25
K0155.10410190X25	black grey RAL 7021	L	50	M10	22	17	32	25
K0155.1041290X25	black grey RAL 7021	L	50	M12	22	17	32	25

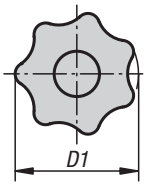
Star grips antibacterial

similar to DIN 6336, metal parts stainless steel

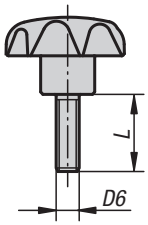


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Material:
Thermoplastic, slate grey.
Bush and screw stainless steel 1.4305.

Version:
Bush and screw bright.

Sample order:
K0154.12408144X25

Application:
The antibacterial KIPP MEDI grip products are highly effective against a variety of hazardous microorganisms, such as bacteria, fungi, viruses and even multi-resistant bacteria (e.g. MRSA).
The plastic used incorporates micro-silver particles with an antimicrobial effect to ensure effective results throughout the entire product life cycle.

Function:
Silver ions are effective in preventing harmful microorganisms from forming on the product surface, promoting a constant reduction of the existing germs on the MEDI grip products (as tested and confirmed by an accredited testing laboratory).
During cleaning cycles the risk of infection while touching these products is significantly lower.

Advantages:
Resistant to humidity and cleaning products (during disinfection) with no toxic side effects.

Applications:
For installation on machines, equipment, plants and furnishings in areas with increased hygienic requirements (including hospitals, doctors' surgeries, rehabilitation centres and food production facilities), as well as for use in public areas or regularly frequented institutions (i.e. nursing homes or daycare centres).

KIPP Star grips antibacterial, similar to DIN 6336, metal parts stainless steel, internal thread, Form K

Order No.	Form	D1	D5	D8	H3	H4	T6
K0154.12208144	K	40	M8	18	13	25	14

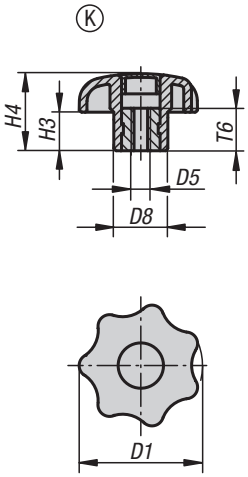
KIPP Star grips antibacterial, similar to DIN 6336, metal parts stainless steel, external thread, Form L

Order No.	Form	D1	D6	D8	H3	H4	L
K0154.12408144X25	L	40	M8	18	13	25	25

Star grips antistatic

similar to DIN 6336





Material:
Thermoplastic, graphite black.
Bush or screw steel 5.8.

Version:
Screw blue passivated.

Sample order:
K0155.1120824

Application:
Sensitive electrical or electronic equipment, components and devices (ESD sensitive elements) may be damaged or destroyed by electrostatic discharges (ESD) in the immediate vicinity. Electrostatic discharges can come from people or through handling ESD sensitive components (e.g. during production, assembly, transport, storage etc).
Electrically conductive products which conform to DIN EN 61340-5-1 are essential within electronic environments to prevent an electrostatic discharge.
These products can be used for ESD applications or in ESD protection areas (EPA) in accordance with DIN EN 61340-5-1.
The yellow ESD logo is printed on the side of the product to clearly identify it.

Safety:
These ESD products can also be used for devices, components and protection systems in areas with high risk of explosion.
Use of these ESD products prevents the occurrence of electrostatic spark discharges, eliminating the potential ignition of gases and dusts which could lead to explosions in enclosed spaces.
Manufacturers and operators must use and conform to ATEX directives for the protection of persons working in areas with high risk of explosion.
These ESD products are certified by TÜV-Süd in relation to their electrical discharge capability.

Target groups:
Device manufacturers required to conform to ATEX product directive 2014/34/EU.
Operators required to conform to ATEX worker protection directive 1999/92/EC.

Drawing reference:
Form K: tapped bush, with cap
Form L: external thread

KIPP Star grips antistatic similar to DIN 6336, internal thread, Form K

Order No.	Main colour	Form	D1	D5	D8	H3	H4	T6
K0155.1120824	graphite black RAL 9011	K	40	M8	18	13	25	14

KIPP Star grips antistatic similar to DIN 6336, external thread, Form L

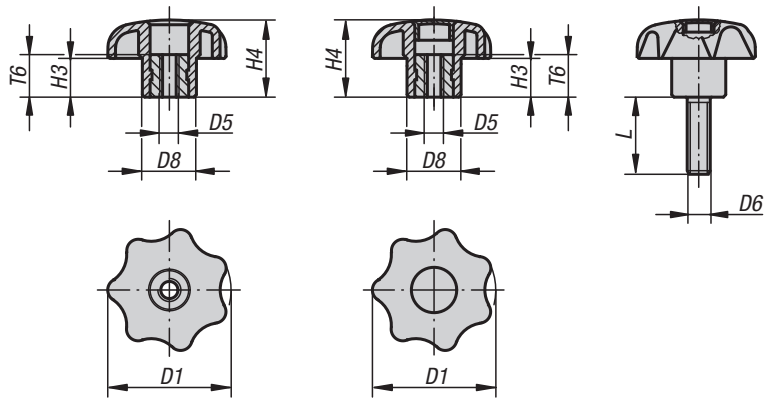
Order No.	Main colour	Form	D1	D6	D8	H3	H4	L
K0155.11408124X25	graphite black RAL 9011	L	40	M8	18	13	25	25

Star grips

similar to DIN 6336, metal parts stainless steel



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black	light grey Δ = 5	traffic red Δ = 6	bright yellow Δ = 7
	 RAL 7035	 RAL 3020	 RAL 1021

Material:
Black thermoplastic.
Bush and screw stainless steel 1.4305.

Version:
Bush and screw bright.

Sample order:
K0154.4067X30
(cap colour bright yellow; include length L)

Note:
Δ Add the desired cap colour code here. No colour code is required for black caps.

On request:
Other colours or designs, such as company logo.

Drawing reference:
Form D: tapped bush without cap
Form K: tapped bush with cap
Form L: external thread

KIPP Star grips similar to DIN 6336, metal parts stainless steel, internal thread, without cap, Form D

Order No.	Form	D1	D5	D8	H3	H4	T6
K0154.505	D	25	M5	12	8	16	10
K0154.506	D	32	M6	14	10	20	10
K0154.508	D	40	M8	18	13	25	14
K0154.510	D	50	M10	22	17	32	14
K0154.512	D	63	M12	26	21	40	18

KIPP Star grips similar to DIN 6336, metal parts stainless steel, internal thread, with cap, Form K

Order No.	Form	D1	D5	D8	H3	H4	T6
K0154.205Δ	K	25	M5	12	8	16	10
K0154.206Δ	K	32	M6	14	10	20	10
K0154.208Δ	K	40	M8	18	13	25	14
K0154.210Δ	K	50	M10	22	17	32	14
K0154.212Δ	K	63	M12	26	21	40	18

KIPP Star grips similar to DIN 6336 metal parts stainless steel, with external thread, Form L

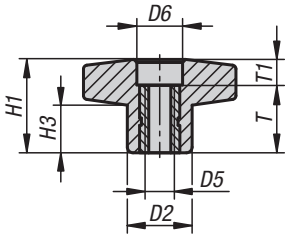
Order No.	Form	D1	D6	D8	H3	H4	L
K0154.405ΔX	L	25	M5	12	8	16	15/20
K0154.406ΔX	L	32	M6	14	10	20	20/30
K0154.408ΔX	L	40	M8	18	13	25	15/20/25/30/40/60
K0154.410ΔX	L	50	M10	22	17	32	25/30/40/50/60

Notes

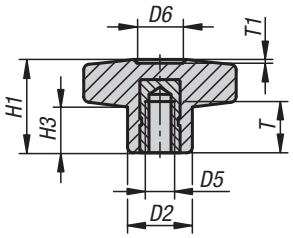
Star grips

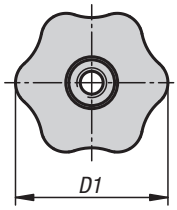


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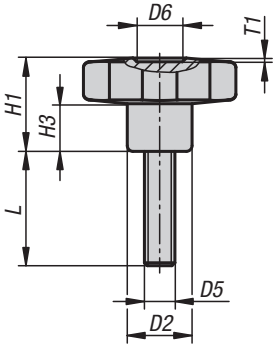


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Material:
Fibreglass reinforced thermoplastic.
Tapped bush brass.
Screw steel.

Version:
Grip, black.
Screw galvanized.

Sample order:
K1090.43006X16 (include length L)

Drawing reference:
Form D: tapped bush, without cap
Form K: tapped bush
Form L: external thread

Star grips

KIPP Form D, tapped bush, without cap

Order No.	Form	D1	D2	D5	D6	H1	H3	T	T1
K1090.53005	D	30	15	M5	11	22	11	18	4
K1090.53006	D	30	15	M6	11	22	11	18	4
K1090.53008	D	30	15	M8	11	22	11	18	4
K1090.54006	D	40	17	M6	12	24,5	12,5	18	6
K1090.54008	D	40	17	M8	12	24,5	12,5	18	6
K1090.54010	D	40	17	M10	12	24,5	12,5	18	6
K1090.55008	D	50	20	M8	14	29	15,5	18	11
K1090.55010	D	50	20	M10	14	29	15,5	18	11
K1090.55012	D	50	20	M12	14	29	14	18	11
K1090.56010	D	60	24	M10	16,5	34	18	18	16
K1090.56012	D	60	24	M12	16,5	34	18	18	16

KIPP Form K, tapped bush

Order No.	Form	D1	D2	D5	D6	H1	H3	T	T1
K1090.23005	K	30	15	M5	9	22	11	14	1,5
K1090.23006	K	30	15	M6	9	22	11	10	1,5
K1090.24006	K	40	17	M6	12	24,5	12	16	1
K1090.24008	K	40	17	M8	12	24,5	12	14	1
K1090.24010	K	40	17	M10	12	24,5	12	14	1
K1090.25008	K	50	20	M8	14,5	29	15,5	14	1,5
K1090.25010	K	50	20	M10	14,5	29	15,5	14	1,5
K1090.25012	K	50	20	M12	14,5	29	15,5	18	1,5
K1090.26010	K	60	24	M10	18	34	18	21	1,5
K1090.26012	K	60	24	M12	18	34	18	18	1,5

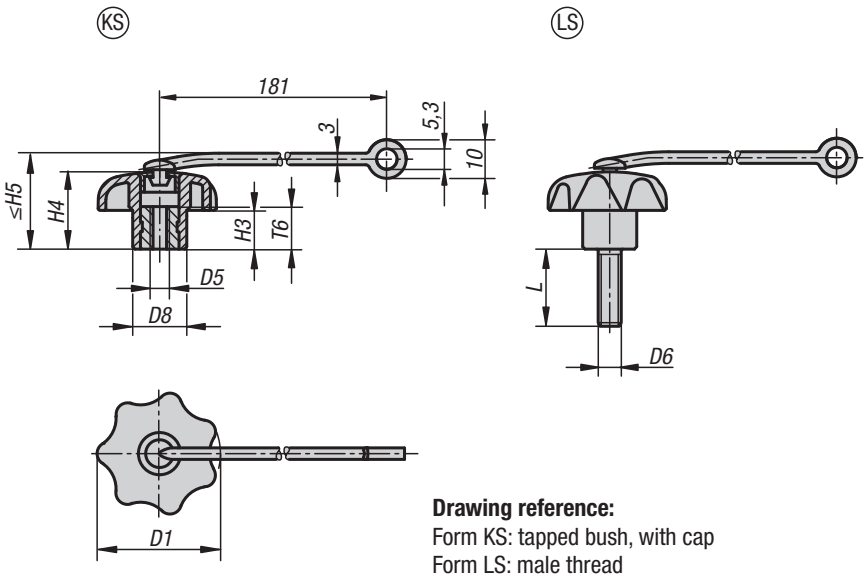
KIPP Form L, external thread

Order No.	Form	D1	D2	D5	D6	H1	H3	T1	L
K1090.43006X	L	30	15	M6	9	22	11	1,5	16/20/30
K1090.43008X	L	30	15	M8	9	22	11	1,5	16/20/30/40
K1090.44006X	L	40	17	M6	12	24,5	12,5	1	16/20/30/40
K1090.44008X	L	40	17	M8	12	24,5	12,5	1	20/30/40/50
K1090.45008X	L	50	20	M8	14,5	29	15	1,5	20/30/40
K1090.45010X	L	50	20	M10	14,5	29	15	1,5	20/30/40/50
K1090.46010X	L	60	24	M10	18	34	18	1,5	20/30/40/50
K1090.46012X	L	60	24	M12	18	34	18	1,5	20/30/40/50

Star grips with safety band

similar to DIN 6336





Drawing reference:
Form KS: tapped bush, with cap
Form LS: male thread

Material:
Grip thermoplastic.
Bush and screw steel.
Safety band elastic TPU.

Version:
Bush and screw, galvanized and blue passivated.

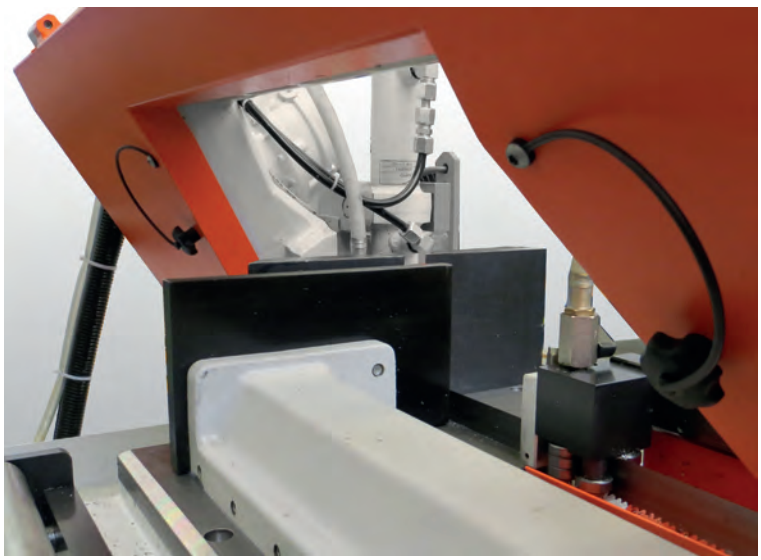
Sample order:
K0155.7056X15
(cap colour traffic red; include length L)

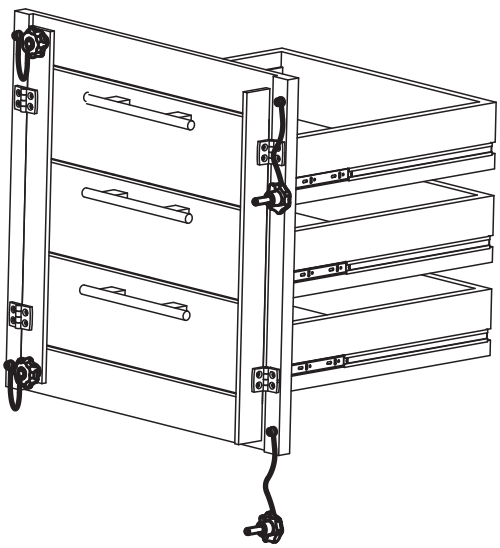
Note:
Δ Add the desired cap colour code here. No colour code is required for black caps.

Attach the safety band to a base to make the star grip unlosable. The star grip cannot be moved far from the object to which it belongs, simplifying screwing and unscrewing of the grip and ensuring against loss.

Assembly:
Do not stretch the band during assembly.
Make sure that the anchor is not too far from where the star grip is to be used.

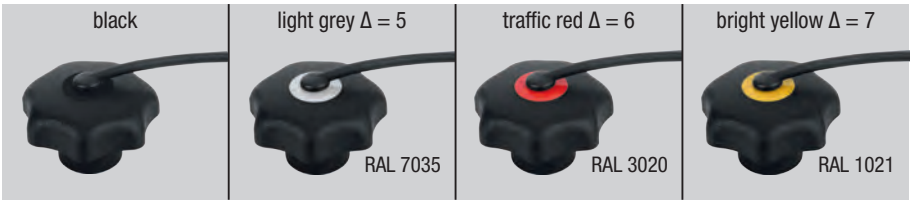
Accessories:
The safety band is also available as an accessory, see K0743.04190.





Star grips with safety band

similar to DIN 6336



KIPP Star grips with safety band, female thread, Form KS

Order No.	Form	D1	D5	D8	H3	H4	H5 max.	T6
K0155.604Δ	KS	25	M4	12	8	16	22	10
K0155.605Δ	KS	25	M5	12	8	16	22	10
K0155.6061Δ	KS	25	M6	12	8	16	22	10
K0155.6051Δ	KS	32	M5	14	10	20	26	10
K0155.606Δ	KS	32	M6	14	10	20	26	10
K0155.608Δ	KS	40	M8	18	13	25	31	14
K0155.6101Δ	KS	40	M10	18	13	25	31	14
K0155.6081Δ	KS	50	M8	22	17	32	38	14
K0155.610Δ	KS	50	M10	22	17	32	38	14
K0155.6121Δ	KS	50	M12	22	17	32	38	14
K0155.6102Δ	KS	63	M10	26	21	40	46	14
K0155.612Δ	KS	63	M12	26	21	40	46	14
K0155.616Δ	KS	63	M16	26	21	40	46	14

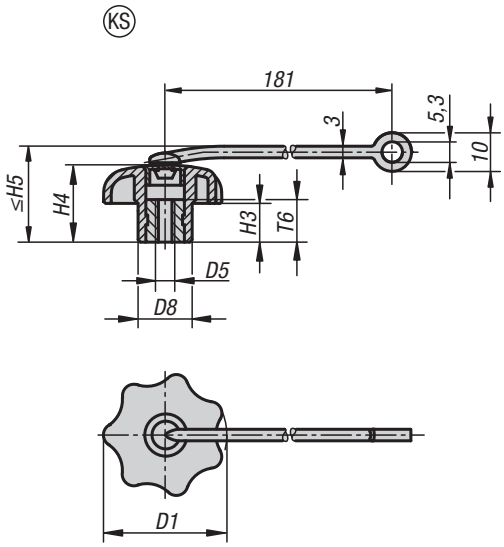
KIPP Star grips with safety band, male thread, Form LS

Order No.	Form	D1	D6	D8	H3	H4	H5 max.	L
K0155.705ΔX	LS	25	M5	12	8	16	22	10/15/20/25/30/35/40/45/50/60
K0155.706ΔX	LS	25	M6	12	8	16	22	10/15/20/25/30/35/40/45/50/60
K0155.7061ΔX	LS	32	M6	14	10	20	26	10/15/20/25/30/35/40/45/50/60
K0155.708ΔX	LS	32	M8	14	10	20	26	15/20/25/30/35/40/45/50/60
K0155.7081ΔX	LS	40	M8	18	13	25	31	15/20/25/30/35/40/45/50/60
K0155.710ΔX	LS	40	M10	18	13	25	31	15/20/25/30/35/40/45/50/60
K0155.7101ΔX	LS	50	M10	22	17	32	38	15/20/25/30/35/40/45/50/60
K0155.712ΔX	LS	50	M12	22	17	32	38	15/20/25/30/35/40/45/50/60
K0155.7102ΔX	LS	63	M10	26	21	40	46	20/25/30/35/40/45/50/60
K0155.7121ΔX	LS	63	M12	26	21	40	46	20/25/30/35/40/45/50/60
K0155.716ΔX	LS	63	M16	26	21	40	46	30/35/40/45/50/60

Star grips with safety band

similar to DIN 6336, metal parts stainless steel





Drawing reference:
Form KS: tapped bush, with cap
Form LS: male thread



Material:
Grip thermoplastic.
Bush and screw stainless steel 1.4305.
Safety band elastic TPU.

Version:
Bush and screw bright.

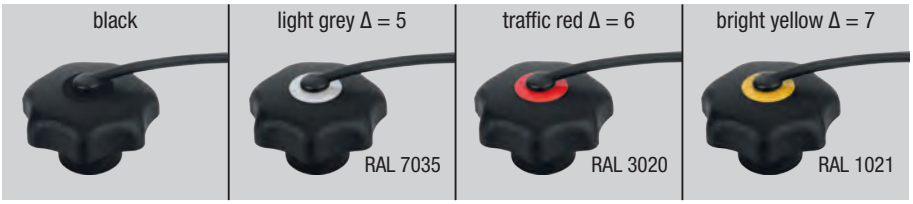
Sample order:
K0154.7056X15
(cap colour traffic red; include length L)

Note:
Δ Add the desired cap colour code here. No colour code is required for black caps.

Attach the safety band to a base to make the star grip unlosable. The star grip cannot be moved far from the object to which it belongs, simplifying screwing and unscrewing of the grip and ensuring against loss.

Assembly:
Do not stretch the band during assembly.
Make sure that the anchor is not too far from where the star grip is to be used.

Accessories:
The safety band is also available as an accessory, see K0743.04190.



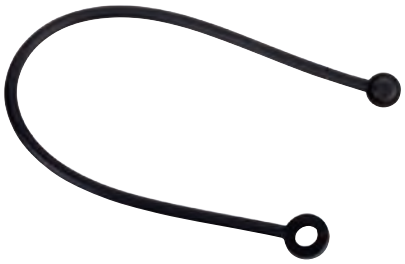
KIPP Star grips with safety band, metal parts stainless steel, internal thread, Form KS

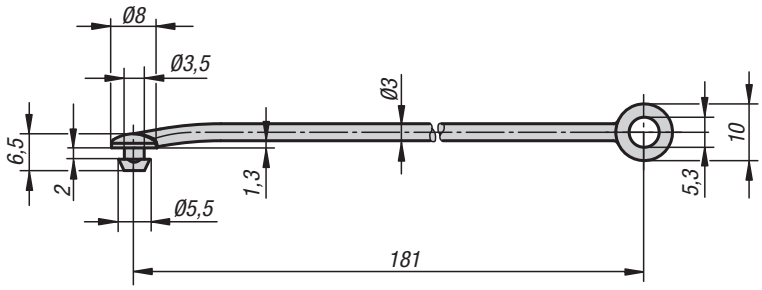
Order No.	Form	D1	D5	D8	H3	H4	H5 max.	T6
K0154.605Δ	KS	25	M5	12	8	16	22	10
K0154.606Δ	KS	32	M6	14	10	20	26	10
K0154.608Δ	KS	40	M8	18	13	25	31	14
K0154.610Δ	KS	50	M10	22	17	32	38	14
K0154.612Δ	KS	63	M12	26	21	40	46	18

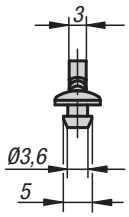
KIPP Star grips with safety band, metal parts stainless steel, external thread, Form LS

Order No.	Form	D1	D6	D8	H3	H4	H5 max.	L
K0154.705ΔX	LS	25	M5	12	8	16	22	15/20
K0154.706ΔX	LS	32	M6	14	10	20	26	20/30
K0154.708ΔX	LS	40	M8	18	13	25	31	15/20/25/30/40/60
K0154.710ΔX	LS	50	M10	22	17	32	38	25/30/40/50/60

Safety band







Material:
Thermoplastic urethane TPU.

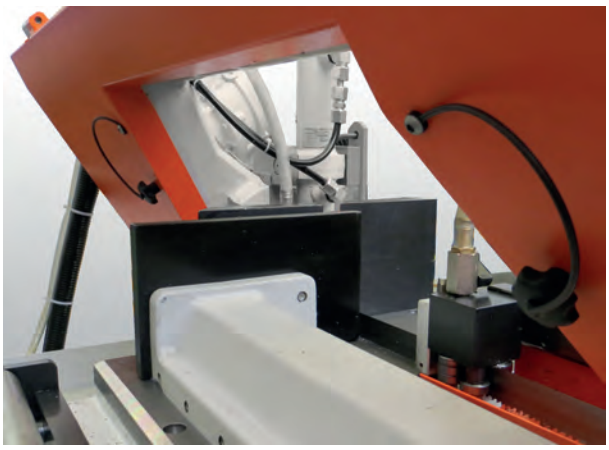
Sample order:
K0743.04190

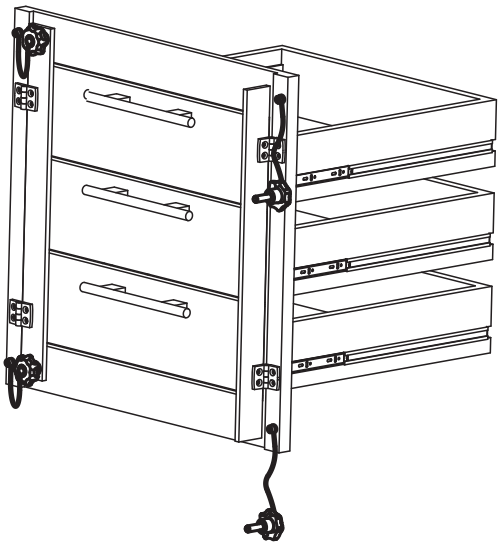
Note:
This safety band has a high breaking strain and good elasticity.
Depending on the wall thickness, it can be attached to almost every operating part, fastening element or other object to make them unlosable.

It was especially conceived for the star grips K0154, K0155 to make them unlosable operating parts.

Refitting of existing star grips K0154, K0155 as well as knurled knobs K0260, K0261 and K0247 from our assortment is possible with this safety band.

Assembly:
Recommended hole Ø 3.8 $^{-0.1}$
The hole edge should be deburred.
A Teflon based lubrication is recommended to aid assembly.



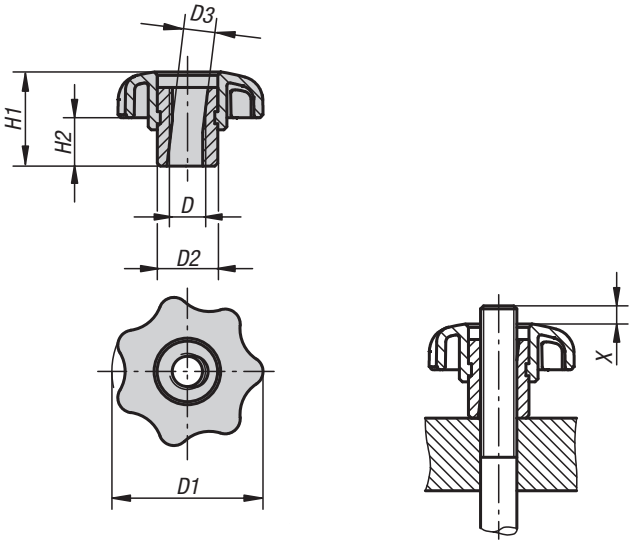


KIPP Safety band

Order No.	Dimensions
K0743.04190	see drawing

Star grips quick-acting





Material:
Black thermoplastic.
Bush steel.

Version:
Bush galvanised and blue passivated

Sample order:
K0156.06

Note:
Quick-acting star grips can be used on all fixtures that do not require a high clamping force.
Tilt the grip to slide on, then straighten it to engage the threads.

Drawing reference:
X: The stud should be several mm longer than height “H1”

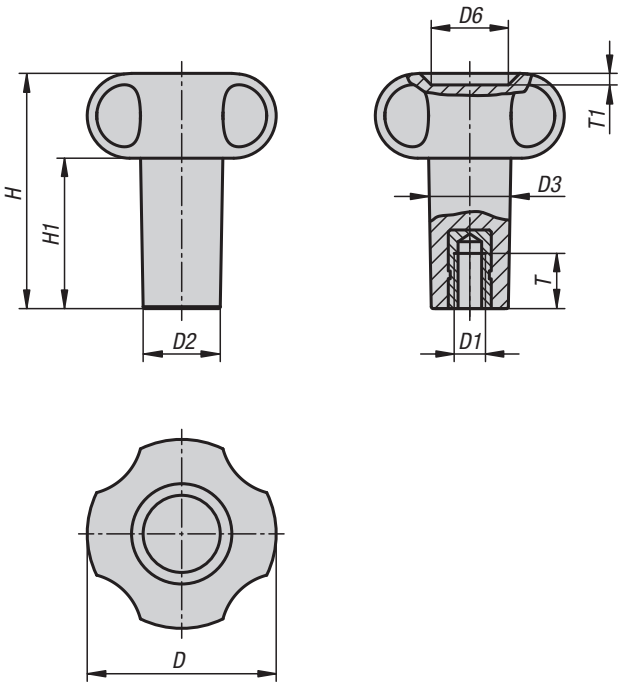
KIPP Star grips quick-acting

Order No.	D	D1	D2	D3	H1	H2
K0156.05	M5	25	10	5,2	16,6	9
K0156.06	M6	32	13,5	6,2	20,6	11
K0156.08	M8	40	13,5	8,3	24,5	13
K0156.10	M10	50	19	10,3	31,2	17
K0156.12	M12	63	19	12,7	39,3	21

Star grips

with extended hub





Material:
Fibreglass reinforced thermoplastic.
Tapped bush brass.

Version:
black.

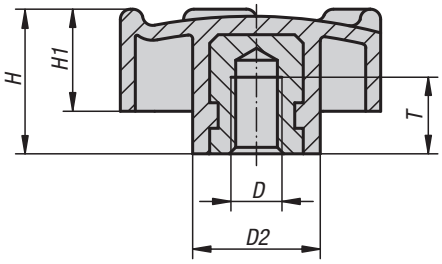
Sample order:
K1088.2410685

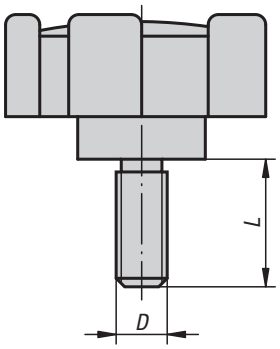
KIPP Star grips with extended hub

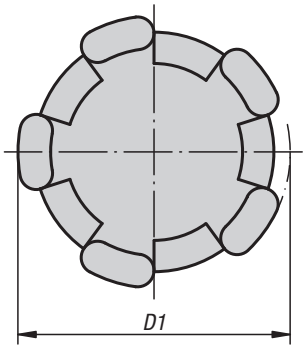
Order No.	Form	D	D1	D2	D3	D6	H	H1	T	T1
K1088.2410685	K	41	M6	14,8	15,5	12	85	66	18	3
K1088.2520861	K	52	M8	17,5	19	14	61	39	15	2,5
K1088.2521071	K	52	M10	18	20,5	14	71	49	15	2,5

Five lobe grips









NOVO grip five lobe grips make life easier. The ergonomic "rib-edge configuration" and the perfect proportions open up new sensible benefits.

Material:
Grip black grey thermoplastic.
Bush steel.
Threaded pin steel 5.8.

Version:
Bush galvanized.
Screw blue passivated.

Sample order:
K0276.3206

KIPP Five lobe grips with internal thread

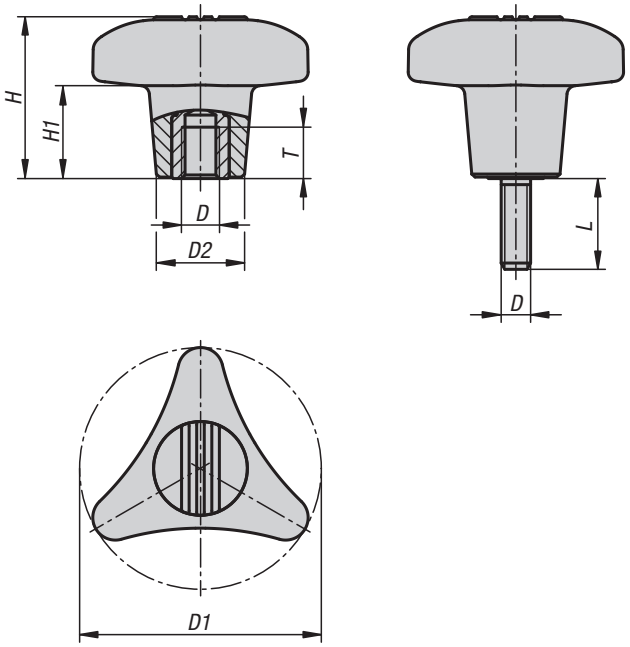
Order No.	Size	D	D1	D2	H	H1	T
K0276.3206	1	M6	32	15	17	12	9
K0276.4008	2	M8	40	18	20,5	14,5	11
K0276.5010	3	M10	50	20	25	18	14

KIPP Five lobe grips with external thread

Order No.	Size	D	D1	D2	H	H1	L
K0276.320615	1	M6	32	15	17	12	15
K0276.400816	2	M8	40	18	20,5	14,5	16
K0276.501020	3	M10	50	20	25	18	20

Triangular grips





Material:
Grip glass-bead reinforced thermoplastic.
Cap thermoplastic.
Steel parts grade 5.8.

Version:
Grip and cap black grey (RAL 7021).
Steel parts blue-passivated.

Sample order:
K1020.18010X15 (include length L)

On request:
Other screw lengths and colours.
Metal parts stainless steel.

KIPP Triangular grips, internal thread

Order No.	D	D1	D2	H	H1	T
K1020.18008	M8	80	29,2	53,5	31	17
K1020.18010	M10	80	29,2	53,5	31	17
K1020.18012	M12	80	29,2	53,5	31	17

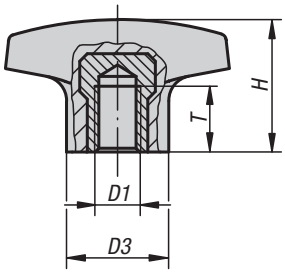
KIPP Triangular grips, external thread

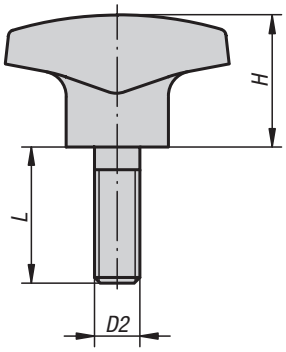
Order No.	D	D1	D2	H	H1	L
K1020.18008X	M8	80	29,2	53,5	31	15/20/30/40/50
K1020.18010X	M10	80	29,2	53,5	31	15/20/30/40/50
K1020.18012X	M12	80	29,2	53,5	31	15/20/30/40/50

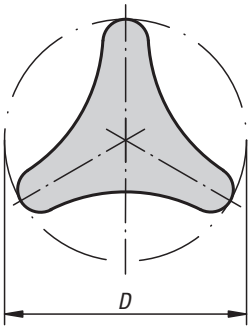
Triangular grips

with high collar







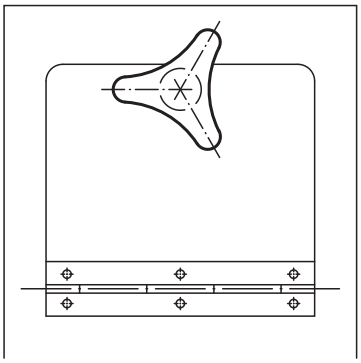


Material:
Black Duroplast PF 31.
Bush and screw galvanized steel or bright stainless steel.

Version:
High-gloss polished.

Sample order:
K0183.14008X20

On request:
Other screw sizes, screw lengths and colours.



KIPP Triangular grips with high collar, internal thread

Order No.	Component material	D	D1	D3	H	T
K0183.14006	steel	40	M6	14	22	12
K0183.15008	steel	50	M8	18	28	14
K0183.16210	steel	62	M10	22	35	14
K0183.24006	stainless steel	40	M6	12	22	9
K0183.25008	stainless steel	50	M8	15	28	13
K0183.26210	stainless steel	62	M10	18	35	13

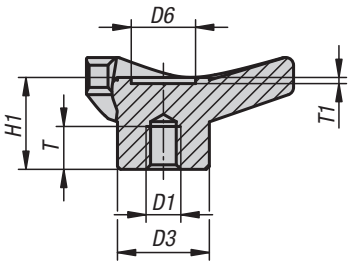
KIPP Triangular grips with high collar, external thread

Order No.	Component material	D	D2	D3	H	L
K0183.14006X15	steel	40	M6	14	22	15
K0183.14008X20	steel	40	M8	14	22	20
K0183.15008X20	steel	50	M8	18	28	20
K0183.15010X25	steel	50	M10	22	28	25
K0183.16210X25	steel	62	M10	22	35	25
K0183.24006X20	stainless steel	40	M6	12	22	20
K0183.24008X20	stainless steel	40	M8	12	22	20
K0183.25008X20	stainless steel	50	M8	15	28	20
K0183.25010X30	stainless steel	50	M10	15	28	30
K0183.26210X30	stainless steel	62	M10	18	35	30

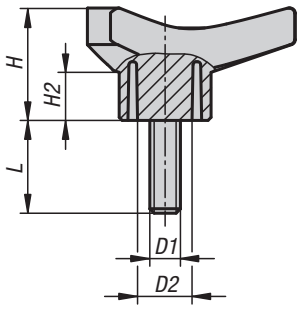
Triangular grips

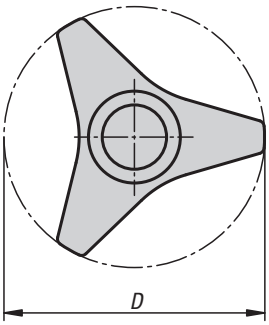


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Material:
Fibreglass reinforced thermoplastic.
Tapped bush brass.
Screw steel.

Version:
Grip, black.
Screw galvanized.

Sample order:
K1083.48510X20 (include length L)

KIPP Triangular grips with internal thread

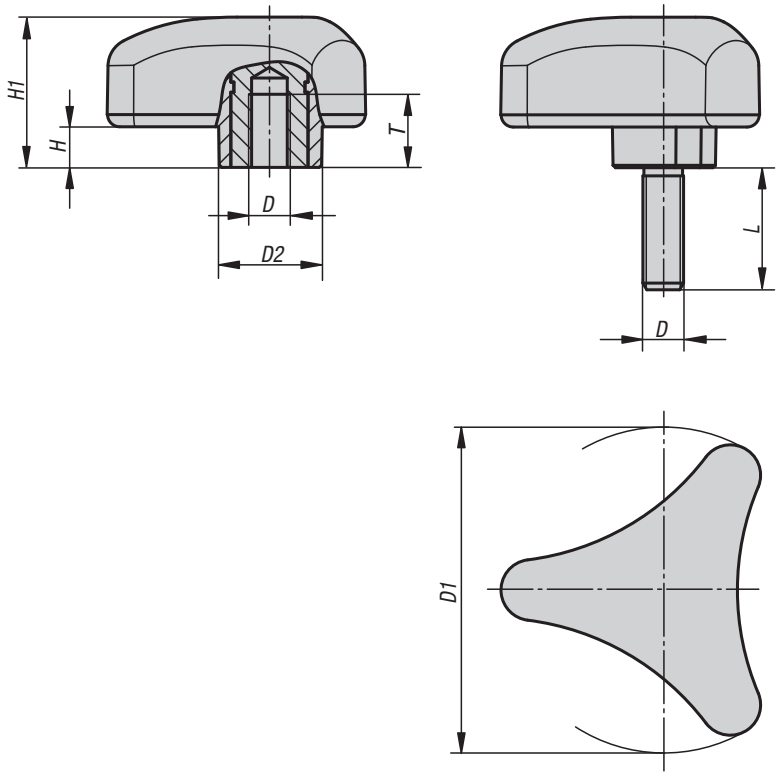
Order No.	Form	D	D1	D3	D6	H	H1	H2	T1	T
K1083.24506	K	45	M6	16	11	21	18	10	1	9
K1083.26508	K	65	M8	22	15,5	28	23,5	11,5	1,5	11
K1083.26510	K	65	M10	22	15,5	28	23,5	11,5	1,5	11
K1083.28510	K	85	M10	30	21	37	30,5	16	2	14
K1083.28512	K	85	M12	30	21	37	30,5	16	2	19
K1083.210512	K	105	M12	35	25	46	37,5	19	2	17
K1083.210514	K	105	M14	35	25	46	37,5	19	2	19

KIPP Triangular grips with external thread

Order No.	Form	D	D1	D2	D3	D6	H	H1	H2	T1	L
K1083.48508X	L	85	M8	18	30	21	37	30,5	16	2	20/30
K1083.48510X	L	85	M10	18	30	21	37	30,5	16	2	20/30
K1083.48512X	L	85	M12	18	30	21	37	30,5	16	2	20/40
K1083.410512X	L	105	M12	20	35	25	46	37,5	19	2	30/50

Triangular grips ergonomic





Material:
Hard components fibreglass reinforced plastic.
Soft components thermoplastic elastomer.
Bush or screw, steel grade 5.8 or
stainless steel 1.4305.

Version:
Steel blue passivated.
Stainless steel, bright.

Sample order:
K0785.8008X20

Note:
The colour combination black grey RAL 7021 (hard components) and black grey RAL 7021 (soft components) are supplied as standard.

On request:
Other versions.

KIPP Triangular grips ergonomic with internal thread

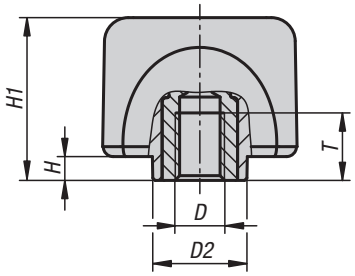
Order No.	Version	D	D1	D2	H	H1	T
K0785.8008	steel	M8	80	26	10	37	17
K0785.8010	steel	M10	80	26	10	37	17
K0785.8012	steel	M12	80	26	10	37	17
K0785.08008	stainless steel	M8	80	26	10	37	17
K0785.08010	stainless steel	M10	80	26	10	37	17
K0785.08012	stainless steel	M12	80	26	10	37	17

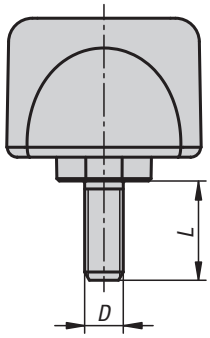
KIPP Triangular grips ergonomic with external thread

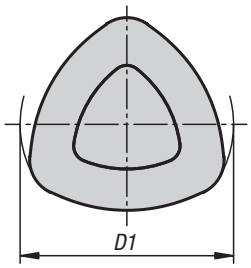
Order No.	Version	D	D1	D2	H	H1	L
K0785.8008X	steel	M8	80	26	10	37	20/25/30/40
K0785.8010X	steel	M10	80	26	10	37	30/40/50
K0785.8012X	steel	M12	80	26	10	37	30/40/50/60
K0785.08008X	stainless steel	M8	80	26	10	37	20/25/30/40
K0785.08010X	stainless steel	M10	80	26	10	37	30/40/50
K0785.08012X	stainless steel	M12	80	26	10	37	30/40/50/60

Triangular grips 2K ergonomic









Material:
Hard components fibreglass reinforced plastic.
Soft components thermoplastic elastomer.
Bush or screw, steel grade 5.8 or
stainless steel 1.4305.

Version:
Steel blue passivated.
Stainless steel, bright.

Sample order:
K0980.5008X20

Note:
The colour combinations
graphite black RAL 9011 (hard components) and
black grey RAL 7021 (soft components)
are supplied as standard.

The soft components ensure a non-slip grip of the operating part. The closed design offers sufficient protection against dirt.

On request:
Further colour combinations.

KIPP internal thread

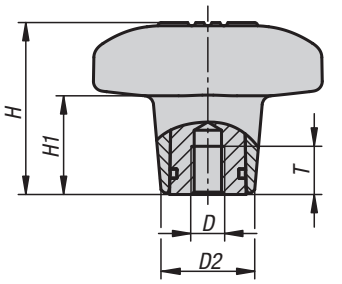
Order No.	Component material	D	D1	D2	H	H1	T
K0980.5008	steel	M8	53,8	23,9	6	41	17
K0980.5010	steel	M10	53,8	23,9	6	41	17
K0980.6308	steel	M8	67,7	23,9	6	36	17
K0980.6310	steel	M10	67,7	23,9	6	36	17
K0980.05008	stainless steel	M8	53,8	23,9	6	41	17
K0980.05010	stainless steel	M10	53,8	23,9	6	41	17
K0980.06308	stainless steel	M8	67,7	23,9	6	36	17
K0980.06310	stainless steel	M10	67,7	23,9	6	36	17

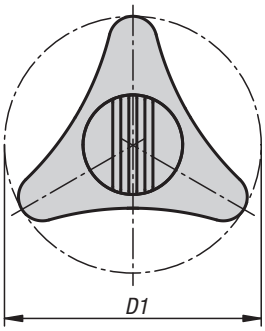
KIPP external thread

Order No.	Component material	D	D1	D2	H	H1	L
K0980.5008X	steel	M8	53,8	23,9	6	41	20/25/30/40
K0980.5010X	steel	M10	53,8	23,9	6	41	20/25/30/40
K0980.6308X	steel	M8	67,7	23,9	6	36	20/25/30/40
K0980.6310X	steel	M10	67,7	23,9	6	36	20/25/30/40
K0980.05008X	stainless steel	M8	53,8	23,9	6	41	20/25/30/40
K0980.05010X	stainless steel	M10	53,8	23,9	6	41	20/25/30/40
K0980.06308X	stainless steel	M8	67,7	23,9	6	36	20/25/30/40
K0980.06310X	stainless steel	M10	67,7	23,9	6	36	20/25/30/40

Triangular torque grips







Material:
Grip glass-bead reinforced thermoplastic.
Cap thermoplastic.
Metal parts hardened stainless steel.

Version:
Grip and cap, black grey (RAL 7021).
Stainless steel parts, electropolished.

Sample order:
K1019.180105

Note:
An audible click signals when the maximum torque has been reached. The grip can only be tightened with the maximum torque specified in the table.

On request:
Other internal threads, maximum torques and colours.

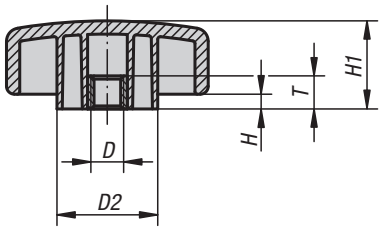
KIPP Triangular torque grips

Order No.	D	D1	D2	H	H1	T	Max. torque Nm
K1019.180085	M8	80	29,2	53,5	31	13	5
K1019.180105	M10	80	29,2	53,5	31	13	5
K1019.180125	M12	80	29,2	53,5	31	13	5

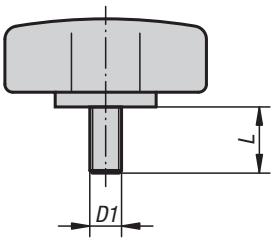
Four lobe grips flat

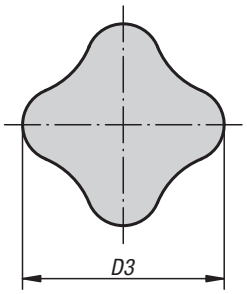


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Extraordinary gripping safety combined with attractive design are key elements to outstanding functionality. The flat construction make these four lobe grips suitable for low working spaces.

Material, version:
Grip black hard thermoplastic.
Coating black soft thermoplastic.
Tapped bush brass.
Screw galvanized steel grade 5.8.

Sample order:
K0278.3506X20 (include length L)

Note:
SYMPA TOUCH flat four lobe grips are available in 5 sizes of internal and external threads.

On request:
Other screw sizes, screw lengths, versions and colours.

Four lobe grips flat

KIPP Four lobe grips, flat, with internal thread

Order No.	Form	D	D2	D3	H	H1	T
K0278.3505	K	M5	14,2	35,5	2,8	15,5	12,5
K0278.3506	K	M6	14,2	35,5	2,8	15,5	12,5
K0278.4405	K	M5	17,5	44,5	3,3	19,3	12,5
K0278.4406	K	M6	17,5	44,5	3,3	19,3	12,5
K0278.4408	K	M8	17,5	44,5	3,3	19,3	12,5
K0278.4410	K	M10	17,5	44,5	3,3	19,3	12,5
K0278.5005	K	M5	23,6	50,8	3,8	22,1	12,5
K0278.5006	K	M6	23,6	50,8	3,8	22,1	12,5
K0278.5008	K	M8	23,6	50,8	3,8	22,1	12,5
K0278.5010	K	M10	23,6	50,8	3,8	22,1	12,5
K0278.6306	K	M6	31,7	63,5	4,6	27,7	12,5
K0278.6308	K	M8	31,7	63,5	4,6	27,7	12,5
K0278.6310	K	M10	31,7	63,5	4,6	27,7	12,5
K0278.6312	K	M12	31,7	63,5	4,6	27,7	12,5
K0278.7608	K	M8	38,1	76,2	5,6	33,3	12,5
K0278.7610	K	M10	38,1	76,2	5,6	33,3	12,5
K0278.7612	K	M12	38,1	76,2	5,6	33,3	12,5

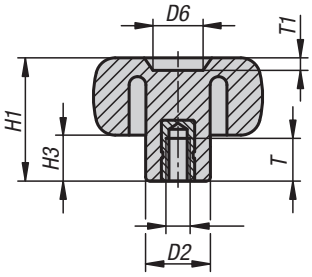
KIPP Flat four lobe grips, flat, with external thread

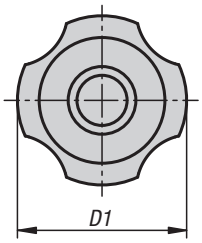
Order No.	Form	D1	D2	D3	H	H1	L
K0278.3506X	L	M6	14,2	35,5	2,8	15,5	15/20/25/35
K0278.4406X	L	M6	17,5	44,5	3,3	19,3	15/20/25/35
K0278.4408X	L	M8	17,5	44,5	3,3	19,3	16/25/35
K0278.4410X	L	M10	17,5	44,5	3,3	19,3	20/30/40/50
K0278.5006X	L	M6	23,6	50,8	3,8	22,1	15/20/25/35
K0278.5008X	L	M8	23,6	50,8	3,8	22,1	16/25/35
K0278.5010X	L	M10	23,6	50,8	3,8	22,1	30/40/50
K0278.6306X	L	M6	31,7	63,5	4,6	27,7	15/20/25/35
K0278.6308X	L	M8	31,7	63,5	4,6	27,7	16/25/35
K0278.6310X	L	M10	31,7	63,5	4,6	27,7	30/40/50
K0278.7608X	L	M8	38,1	76,2	5,6	33,3	16/25/35
K0278.7610X	L	M10	38,1	76,2	5,6	33,3	30/40/50

Four lobe grips

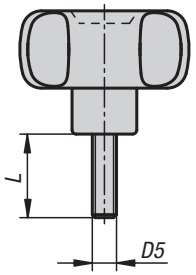


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Material:
Fibreglass reinforced thermoplastic.
Tapped bush brass.
Screw steel.

Version:
Grip, black.
Screw galvanized.

Sample order:
K1093.43006X20 (include length L)

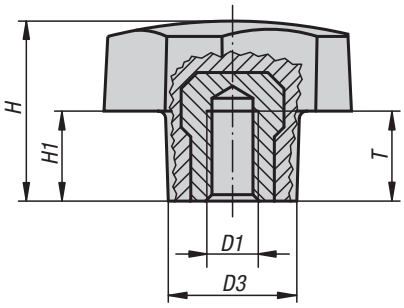
KIPP Four lobe grips with internal thread

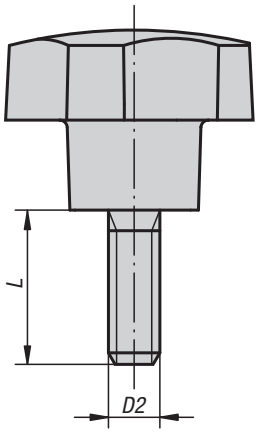
Order No.	Form	D1	D2	D5	D6	H1	H3	T1	T
K1093.23006	K	30	15	M6	12	23	9,5	2	10
K1093.24006	K	40,5	15,5	M6	12	29,5	11	3	10
K1093.24008	K	40,5	15	M8	12	27,5	11	3	14
K1093.25208	K	52	20,5	M8	14,5	32,5	11	2,5	14
K1093.25210	K	52	20,5	M10	14,5	32,5	11	2,5	13
K1093.26010	K	59	23	M10	24	40	15	4	14
K1093.26012	K	59	23	M12	24	40	15	4	18

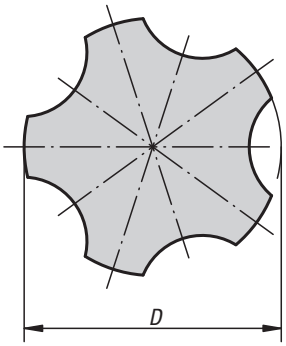
KIPP Four lobe grips with external thread

Order No.	Form	D1	D2	D5	D6	H1	H3	T1	L
K1093.43006X	L	30	15	M6	12	23	9,5	2	16/20/30/40/50
K1093.44006X	L	40,5	15,5	M6	12	29,5	11	3	16/20
K1093.44008X	L	40,5	15	M8	12	29,5	11	3	20/30/40
K1093.45208X	L	52	20,5	M8	14,5	32,5	11	2,5	16/20/30/40/50
K1093.46010X	L	59	23	M10	24	40	15	4	20/30/40/50
K1093.46012X	L	59	23	M12	24	40	15	4	50
K1093.48010X	L	79	30	M10	21	41	17	3	30/50
K1093.48012X	L	79	30	M12	21	41	17	3	50

Five lobe grips









Material:
Duroplast PF 31, black.
Bush and stud galvanized steel.

Version:
High-gloss polished.

Sample order:
K0185.3206X12 (include length L)

Note:
The versions K0185.3205 and K0185.3206 have a brass bush.

On request:
Other screw sizes, screw lengths and colours.

KIPP Five lobe grips with internal thread

Order No.	D	D1	D3	H	H1	T
K0185.3205	32	M5	16	22,4	11,2	10
K0185.3206	32	M6	16	22,4	11,2	9
K0185.4006	40	M6	20	28	14	12
K0185.4008	40	M8	20	28	14	14
K0185.4010	40	M10	20	28	14	14
K0185.5008	50	M8	25	35	17,5	14
K0185.5010	50	M10	25	35	17,5	14

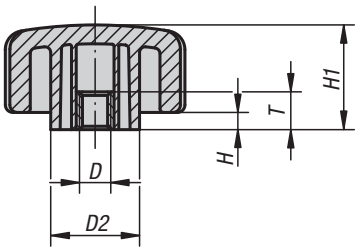
KIPP Five lobe grips with external thread

Order No.	D	D2	D3	H	H1	L
K0185.3206X	32	M6	16	22,4	11,2	12/18
K0185.3208X	32	M8	16	22,4	11,2	16/24
K0185.4006X	40	M6	20	28	14	18
K0185.4008X	40	M8	20	28	14	16/20/24
K0185.4010X	40	M10	20	28	14	30
K0185.5008X	50	M8	25	35	17,5	16/24
K0185.5010X	50	M10	25	35	17,5	20/30

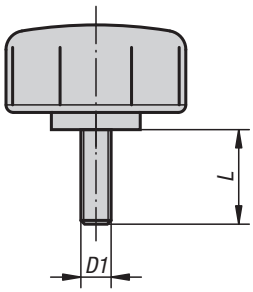
Five lobe grips

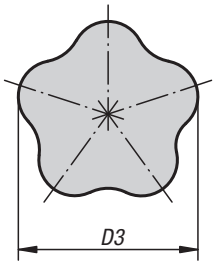


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The material and form lend this grip a natural and secure gripping effect.

Material, version:
Grip black hard thermoplastic.
Coating black soft thermoplastic.
Tapped bush brass.
Screw galvanized steel grade 5.8.

Sample order:
K0279.4006X20 (include length L)

Note:
SYMPA TOUCH five lobe grips are available in 3 sizes with internal and external threads.

On request:
Other screw sizes, screw lengths, versions and colours.

KIPP Five lobe grips with internal thread

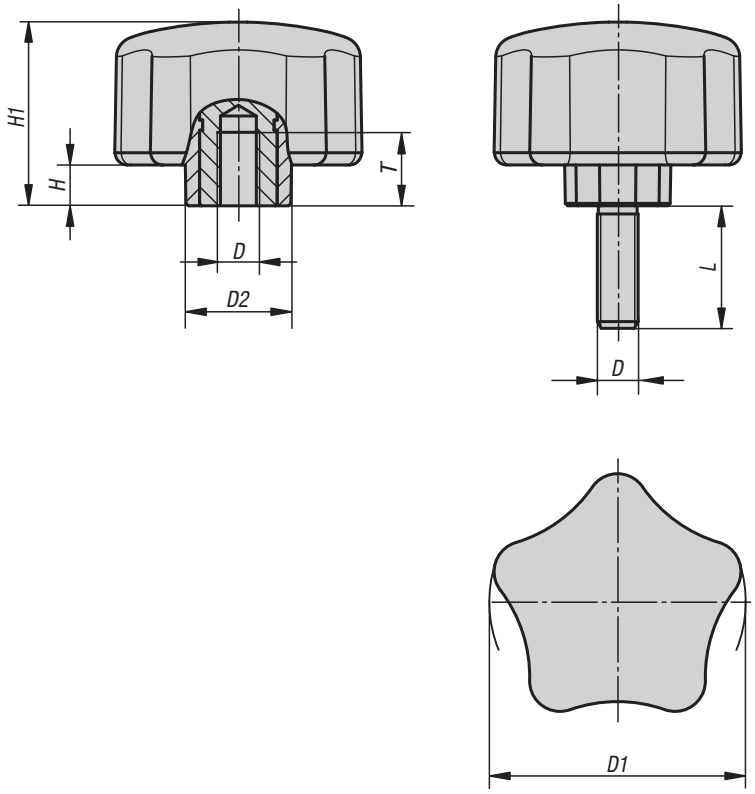
Order No.	Form	D	D2	D3	H	H1	T
K0279.4005	K	M5	19	40	4,6	27,7	12,5
K0279.4006	K	M6	19	40	4,6	27,7	12,5
K0279.4008	K	M8	19	40	4,6	27,7	12,5
K0279.4010	K	M10	19	40	4,6	27,7	12,5
K0279.5006	K	M6	23,5	50	4,6	27,7	12,5
K0279.5008	K	M8	23,5	50	4,6	27,7	12,5
K0279.5010	K	M10	23,5	50	4,6	27,7	12,5
K0279.6006	K	M6	31,8	60	4,6	27,7	12,5
K0279.6008	K	M8	31,8	60	4,6	27,7	12,5
K0279.6010	K	M10	31,8	60	4,6	27,7	12,5

KIPP Five lobe grips with external thread

Order No.	Form	D1	D2	D3	H	H1	L
K0279.4006X	L	M6	19	40	4,6	27,7	15/20/25/35
K0279.4008X	L	M8	19	40	4,6	27,7	16/25/35
K0279.4010X	L	M10	19	40	4,6	27,7	20/30/40/50
K0279.5006X	L	M6	23,5	50	4,6	27,7	15/20/25/35
K0279.5008X	L	M8	23,5	50	4,6	27,7	16/25/35
K0279.5010X	L	M10	23,5	50	4,6	27,7	30/40/50
K0279.6006X	L	M6	31,8	60	4,6	27,7	15/20/25/35
K0279.6008X	L	M8	31,8	60	4,6	27,7	16/25/35
K0279.6010X	L	M10	31,8	60	4,6	27,7	20/30/40/50

Five lobe grips ergonomic





Material:
Hard components fibreglass reinforced plastic.
Soft components thermoplastic elastomer.
Bush or screw, steel grade 5.8 or
stainless steel 1.4305.

Version:
Steel blue passivated.
Stainless steel, bright.

Sample order:
K0786.6308X20

Note:
The colour combination black grey RAL 7021 (hard components) and black grey RAL 7021 (soft components) are supplied as standard.

On request:
Other versions.

KIPP Five lobe grips ergonomic with internal thread

Order No.	Version	D	D1	D2	H	H1	T
K0786.6308	steel	M8	63	26	10	45	17
K0786.6310	steel	M10	63	26	10	45	17
K0786.06308	stainless steel	M8	63	26	10	45	17
K0786.06310	stainless steel	M10	63	26	10	45	17

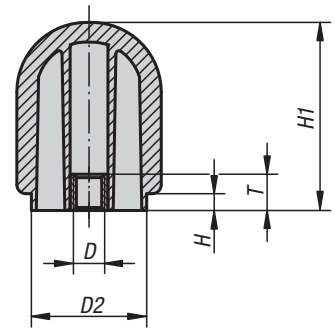
KIPP Five lobe grips ergonomic with external thread

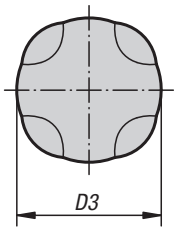
Order No.	Version	D	D1	D2	H	H1	L
K0786.6308X	steel	M8	63	26	10	45	20/25/30/40
K0786.6310X	steel	M10	63	26	10	45	30/40/50
K0786.06308X	stainless steel	M8	63	26	10	45	20/25/30/40
K0786.06310X	stainless steel	M10	63	26	10	45	30/40/50

Clamping grips high form

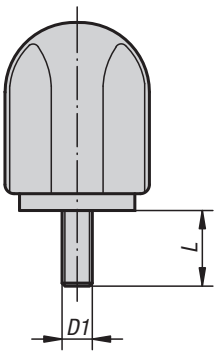


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These grips are distinguished by their unusual design. The high form permits high clamping forces while being gentle to the hand.

Material, version:
Grip black hard thermoplastic.
Coating black soft thermoplastic.
Tapped bush brass.
Screw galvanized steel grade 5.8.

Sample order:
K0280.4206X20 (include length L)

Note:
SYMPA TOUCH high form clamping grips are available in 2 grip sizes with internal and external threads.

On request:
Other screw sizes, screw lengths, versions and colours.

KIPP Clamping grips high form with internal thread

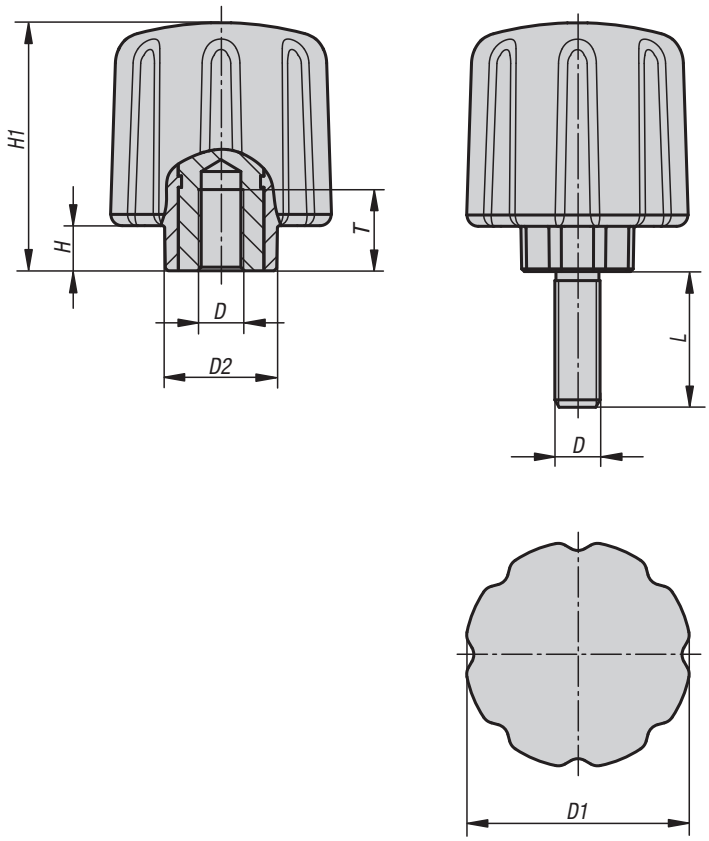
Order No.	Form	D	D2	D3	H	H1	T
K0280.4206	K	M6	34	42,7	4,8	55,6	12,5
K0280.4208	K	M8	34	42,7	4,8	55,6	12,5
K0280.4210	K	M10	34	42,7	4,8	55,6	12,5
K0280.4212	K	M12	34	42,7	4,8	55,6	12,5
K0280.4706	K	M6	38,1	47,8	5,6	62,2	12,5
K0280.4708	K	M8	38,1	47,8	5,6	62,2	12,5
K0280.4710	K	M10	38,1	47,8	5,6	62,2	12,5
K0280.4712	K	M12	38,1	47,8	5,6	62,2	12,5

KIPP Clamping grips high form with external thread

Order No.	Form	D1	D2	D3	H	H1	L
K0280.4206X	L	M6	34	42,7	4,8	55,6	15/20/25/35
K0280.4208X	L	M8	34	42,7	4,8	55,6	16/25/35
K0280.4210X	L	M10	34	42,7	4,8	55,6	20/30/40/50
K0280.4706X	L	M6	38,1	47,8	5,6	62,2	20/35
K0280.4708X	L	M8	38,1	47,8	5,6	62,2	35
K0280.4710X	L	M10	38,1	47,8	5,6	62,2	40/50

Clamping grips ergonomic





Material:
Hard components fibreglass reinforced plastic.
Soft components thermoplastic elastomer.
Bush or screw, steel grade 5.8 or
stainless steel 1.4305.

Version:
Steel blue passivated.
Stainless steel, bright.

Sample order:
K0779.5006X20

Note:
The colour combination black grey RAL 7021 (hard components) and black grey RAL 7021 (soft components) are supplied as standard.

On request:
Other versions.

KIPP Clamping grips ergonomic with internal thread

Order No.	Version	D	D1	D2	H	H1	T
K0779.5006	Steel	M6	50	26	10	55	17
K0779.5008	Steel	M8	50	26	10	55	17
K0779.5010	Steel	M10	50	26	10	55	17
K0779.05006	Stainless steel	M6	50	26	10	55	17
K0779.05008	Stainless steel	M8	50	26	10	55	17
K0779.05010	Stainless steel	M10	50	26	10	55	17

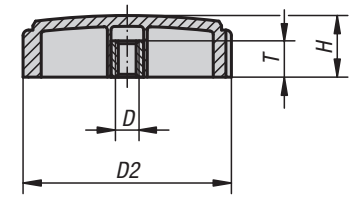
KIPP Clamping grips ergonomic with external thread

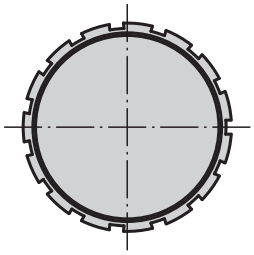
Order No.	Version	D	D1	D2	H	H1	L
K0779.5006X	Steel	M6	50	26	10	55	15/20/25/30
K0779.5008X	Steel	M8	50	26	10	55	20/25/30/40
K0779.5010X	Steel	M10	50	26	10	55	30/40/50
K0779.05006X	Stainless steel	M6	50	26	10	55	15/20/25/30
K0779.05008X	Stainless steel	M8	50	26	10	55	20/25/30/40
K0779.05010X	Stainless steel	M10	50	26	10	55	30/40/50

Knurled screws

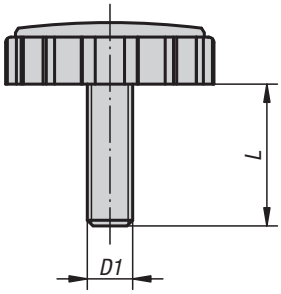


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Due to their extremely flat design, these grips can be used in very cramped spaces. The fluting around the edge improves gripping.

Material, version:
Grip black hard thermoplastic.
Coating black soft thermoplastic.
Tapped bush brass.
Screw galvanized steel grade 5.8.

Sample order:
K0281.5706X20 (include length L)

Note:
SYMPA TOUCH Knurled screws are available in one grip size with internal and external threads.

On request:
Other screw sizes, screw lengths, versions and colours.

KIPP Knurled screw with internal thread

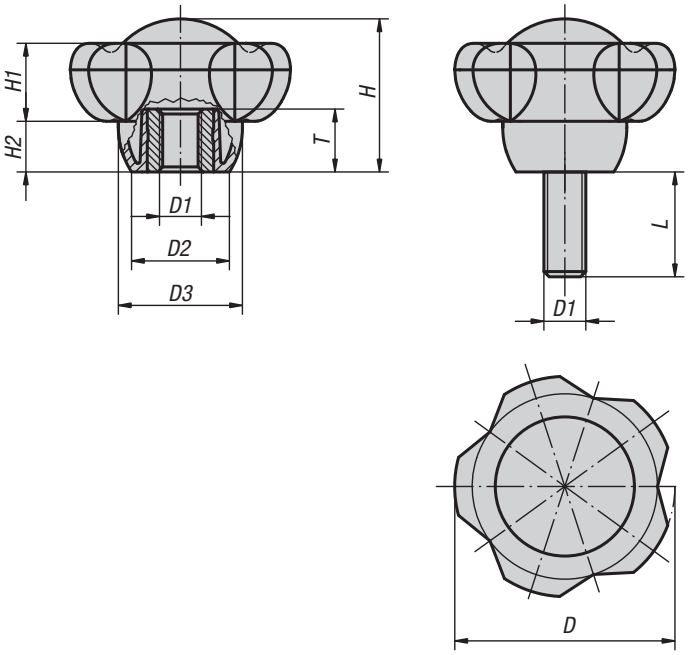
Order No.	Form	D	D2	H	T
K0281.5705	K	M5	57,4	17	12,5
K0281.5706	K	M6	57,4	17	12,5
K0281.5708	K	M8	57,4	17	12,5
K0281.5710	K	M10	57,4	17	12,5

KIPP Knurled screw with external thread

Order No.	Form	D1	D2	H	L
K0281.5706X	L	M6	57,4	17	15/20/25/35
K0281.5708X	L	M8	57,4	17	16/25/30/35
K0281.5710X	L	M10	57,4	17	30/40/50

Five lobe grips





This newly developed design eases operating and clamping processes. Completely new freedom of applications and the associated creativity contribute towards harmonizing human requirements and the stipulated grip safety.

Material:
Thermoplastic, black grey.
Bush and screw steel 5.8 or stainless steel 1.4305.

Version:
Blue passivated steel or bright stainless steel.

Sample order:
K0255.50106X30
(cap colour traffic red; include length L)

Note:
The screw lengths 15, 35 and 45 are not available in stainless steel.
Δ Add the desired cap colour here. No colour code is required for black grey caps.

black grey	light grey Δ = 5	traffic red Δ = 6	bright yellow Δ = 7
 RAL 7021	 RAL 7035	 RAL 3020	 RAL 1021

KIPP Five lobe grips with internal thread

Order No. Steel	Order No. Stainless steel	D	D1	D2	D3	H	H1	H2	T
K0255.5008Δ	K0255.50081Δ	50	M8	22,2	28,2	34,8	17,8	11,5	14
K0255.5010Δ	K0255.50101Δ	50	M10	22,2	28,2	34,8	17,8	11,5	14
K0255.5012Δ	K0255.50121Δ	50	M12	22,2	28,2	34,8	17,8	11,5	18
K0255.6310Δ	K0255.63101Δ	63	M10	28	35,5	44	22,5	14,5	14
K0255.6312Δ	K0255.63121Δ	63	M12	28	35,5	44	22,5	14,5	18
K0255.6316Δ	-	63	M16	28	35,5	44	22,5	14,5	18

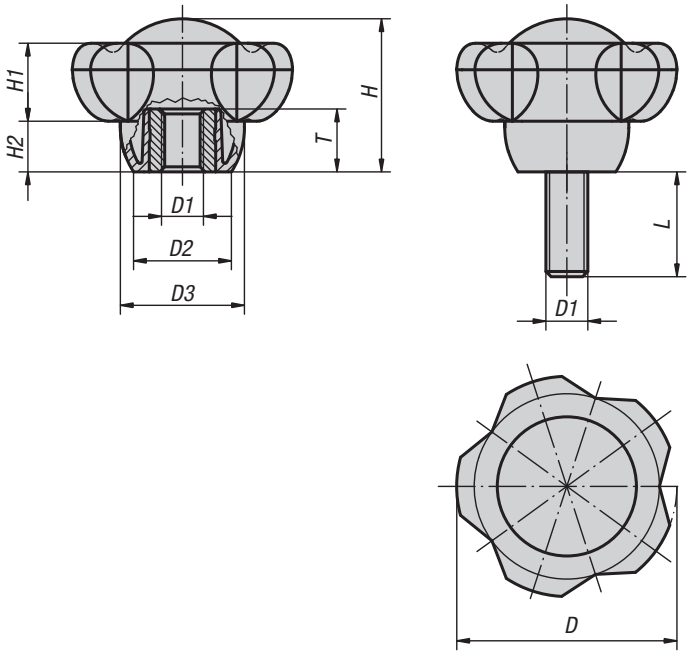
KIPP Five lobe grips with external thread

Order No. Steel	Order No. Stainless steel	D	D1	D2	D3	H	H1	H2	L
K0255.5010ΔX	K0255.50101ΔX	50	M10	22,2	28,2	34,8	17,8	11,5	15/20/25/30/35/40/45/50/60
K0255.5012ΔX	-	50	M12	22,2	28,2	34,8	17,8	11,5	15/20/25/30/35/40/45/50/60
K0255.6310ΔX	K0255.63101ΔX	63	M10	28	35,5	44	22,5	14,5	20/25/30/35/40/45/50/60
K0255.6312ΔX	-	63	M12	28	35,5	44	22,5	14,5	20/25/30/35/40/45/50/60

Five lobe grips antibacterial

metal parts stainless steel





Material:
Thermoplastic, slate grey.
Bush and screw stainless steel 1.4305.

Version:
Stainless steel bright.

Sample order:
K0255.1263101144X20

Application:
The antibacterial KIPP MEDI grip products are highly effective against a variety of hazardous microorganisms, such as bacteria, fungi, viruses and even multi-resistant bacteria (e.g. MRSA).
The plastic used incorporates micro-silver particles with an antimicrobial effect to ensure effective results throughout the entire product life cycle.

Function:
Silver ions are effective in preventing harmful microorganisms from forming on the product surface, promoting a constant reduction of the existing germs on the MEDI grip products (as tested and confirmed by an accredited testing laboratory).
During cleaning cycles the risk of infection while touching these products is significantly lower.

Advantages:
Resistant to humidity and cleaning products (during disinfection) with no toxic side effects.

Applications:
For installation on machines, equipment, plants and furnishings in areas with increased hygienic requirements (including hospitals, doctors' surgeries, rehabilitation centres and food production facilities), as well as for use in public areas or regularly frequented institutions (i.e. nursing homes or daycare centres).

KIPP Five lobe grips antibacterial, metal parts stainless steel, internal thread

Order No.	D	D1	D2	D3	H	H1	H2	T
K0255.1263101144	63	M10	28	35,5	44	22,5	14,5	14

KIPP Five lobe grips antibacterial, metal parts stainless steel, external thread

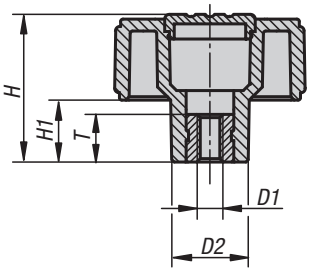
Order No.	D	D1	D2	D3	H	H1	H2	L
K0255.1263101144X20	63	M10	28	35,5	44	22,5	14,5	20

Notes

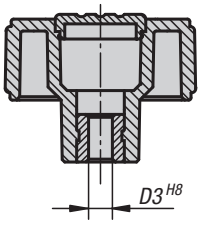
Knurled knobs



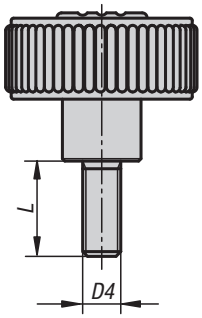
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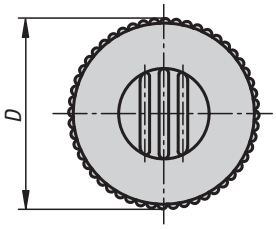


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NOVO grip knurled knobs are characterized by their wide range of applications and outstanding design. The ergonomically designed knurled wheel guarantees absolutely secure and perfect handling.

Material:
Thermoplastic, black grey.
Bush or screw steel 5.8.

Version:
Steel blue passivated.

Sample order:
K0260.41067
(cap colour bright yellow.)

Note:
Δ Add the desired cap colour here.
No colour code is required for black grey caps.

Drawing reference:
Form D: tapped bush without cap
Form K: tapped bush with cap
Form E: reamed bush without cap
Form H: reamed bush with cap
Form L: external thread

black grey	light grey Δ = 5	traffic red Δ = 6	bright yellow Δ = 7
 RAL 7021	 RAL 7035	 RAL 3020	 RAL 1021

KIPP Knurled knobs Form D, with tapped bush, without cap

Order No.	Form	Size	D	D1	D2	H	H1	T
K0260.1105	D	1	40	M5	16,5	30	13	10
K0260.1106	D	1	40	M6	16,5	30	13	10
K0260.1108	D	1	40	M8	16,5	30	13	14
K0260.1208	D	2	50	M8	18	35	15	14
K0260.1210	D	2	50	M10	18	35	15	14
K0260.1310	D	3	63	M10	22	40	17	14
K0260.1312	D	3	63	M12	22	40	17	18

Knurled knobs

KIPP Knurled knobs Form K, with tapped bush, with cap

Order No.	Form	Size	D	D1	D2	H	H1	T
K0260.2105Δ	K	1	40	M5	16,5	31	13	10
K0260.2106Δ	K	1	40	M6	16,5	31	13	10
K0260.2108Δ	K	1	40	M8	16,5	31	13	14
K0260.2208Δ	K	2	50	M8	18	36	15	14
K0260.2210Δ	K	2	50	M10	18	36	15	14
K0260.2310Δ	K	3	63	M10	22	41	17	14
K0260.2312Δ	K	3	63	M12	22	41	17	18

KIPP Knurled knobs Form E, with reamed bush, without cap

Order No.	Form	Size	D	D2	D3	H	H1	T
K0260.3106	E	1	40	16,5	6	30	13	10
K0260.3208	E	2	50	18	8	35	15	14
K0260.3310	E	3	63	22	10	40	17	14

KIPP Knurled knobs Form H, with reamed bush, with cap

Order No.	Form	Size	D	D2	D3	H	H1	T
K0260.4106Δ	H	1	40	16,5	6	31	13	10
K0260.4208Δ	H	2	50	18	8	36	15	14
K0260.4310Δ	H	3	63	22	10	41	17	14

KIPP Knurled knobs Form L, with external thread

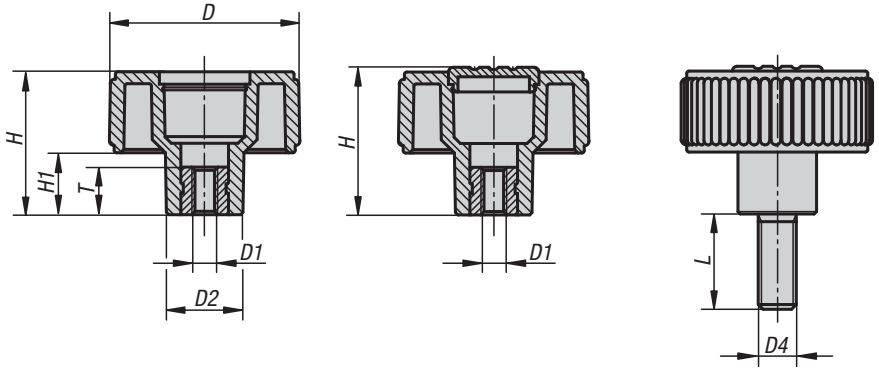
Order No.	Form	Size	D	D2	D4	H	H1	L
K0260.5105ΔX	L	1	40	16,5	M5	31	13	10/20/40
K0260.5106ΔX	L	1	40	16,5	M6	31	13	10/20/40
K0260.5108ΔX	L	1	40	16,5	M8	31	13	15/30/60
K0260.5208ΔX	L	2	50	18	M8	36	15	15/30/60
K0260.5210ΔX	L	2	50	18	M10	36	15	20/30/60
K0260.5310ΔX	L	3	63	22	M10	41	17	20/30/60
K0260.5312ΔX	L	3	63	22	M12	41	17	30/60

Knurled knobs

metal parts stainless steel



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NOVO grip knurled knobs are characterized mainly by their wide range of applications and their outstanding design. The ergonomically designed knurled wheel guarantees absolutely secure and perfect handling.

Material:
Thermoplastic, black grey.
Bush and screw stainless steel 1.4305.

Version:
Stainless steel bright.

Sample order:
K0261.51056X10
(cap colour traffic red; include length L.)

Note:
Δ Add the desired cap colour here. No colour code is required for black grey caps.

Drawing reference:
Form D: tapped bush without cap
Form K: tapped bush with cap
Form L: external thread

black grey	light grey Δ = 5	traffic red Δ = 6	bright yellow Δ = 7
 RAL 7021	 RAL 7035	 RAL 3020	 RAL 1021

KIPP Knurled knobs, metal parts stainless steel, Form D, with tapped bush, without cap

Order No.	Form	Size	D	D1	D2	H	H1	T
K0261.1105	D	1	40	M5	16,5	30	13	10
K0261.1106	D	1	40	M6	16,5	30	13	10
K0261.1108	D	1	40	M8	16,5	30	13	14
K0261.1208	D	2	50	M8	18	35	15	14
K0261.1210	D	2	50	M10	18	35	15	14
K0261.1310	D	3	63	M10	22	40	17	14
K0261.1312	D	3	63	M12	22	40	17	18

Knurled knobs

metal parts stainless steel

KIPP Knurled knobs, metal parts stainless steel, Form K, with tapped bush, with cap

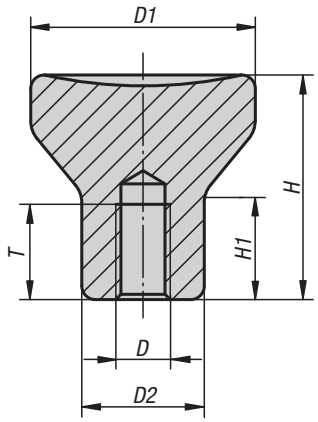
Order No.	Form	Size	D	D1	D2	H	H1	T
K0261.2105Δ	K	1	40	M5	16,5	31	13	10
K0261.2106Δ	K	1	40	M6	16,5	31	13	10
K0261.2108Δ	K	1	40	M8	16,5	31	13	14
K0261.2208Δ	K	2	50	M8	18	36	15	14
K0261.2210Δ	K	2	50	M10	18	36	15	14
K0261.2310Δ	K	3	63	M10	22	41	17	14
K0261.2312Δ	K	3	63	M12	22	41	17	18

KIPP Knurled knobs, metal parts stainless steel, Form L, with external thread

Order No.	Form	Size	D	D2	D4	H	H1	L
K0261.5105ΔX	L	1	40	16,5	M5	31	13	10/20
K0261.5106ΔX	L	1	40	16,5	M6	31	13	10/20/40
K0261.5108ΔX	L	1	40	16,5	M8	31	13	15/30/60
K0261.5208ΔX	L	2	50	18	M8	36	15	15/30/60
K0261.5210ΔX	L	2	50	18	M10	36	15	20/30/60
K0261.5310ΔX	L	3	63	22	M10	41	17	20/30/60

Mushroom knobs

internal thread





Material:
Steel, stainless steel and aluminium.

Version:
Steel galvanized and blue passivated.
Stainless steel electropolished or blasted.
Aluminium natural tone anodized.

Sample order:
K0250.104

On request:
With external threads.

KIPP Mushroom knobs with internal thread

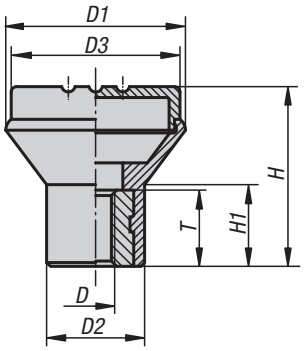
Order No.	Main material	Version	D	D1	D2	H	H1	T
K0250.0902	steel	galvanized and blue chromed	M2	14	8	14	6,7	4
K0250.0003	steel	galvanized and blue chromed	M3	18	10	18	8,6	7,5
K0250.0104	steel	galvanized and blue chromed	M4	21	12	21	10	10
K0250.0105	steel	galvanized and blue chromed	M5	21	12	21	10	12,5
K0250.0206	steel	galvanized and blue chromed	M6	25	14	25	12	12
K0250.0308	steel	galvanized and blue chromed	M8	33	18	33	16	16
K0250.0410	steel	galvanized and blue chromed	M10	40	24	40	18,7	20
K0250.902	stainless steel	electropolished	M2	14	8	14	6,7	4
K0250.003	stainless steel	electropolished	M3	18	10	18	8,6	7,5
K0250.104	stainless steel	electropolished	M4	21	12	21	10	10
K0250.105	stainless steel	electropolished	M5	21	12	21	10	12,5
K0250.206	stainless steel	electropolished	M6	25	14	25	12	12
K0250.308	stainless steel	electropolished	M8	33	18	33	16	16
K0250.410	stainless steel	electropolished	M10	40	24	40	18,7	20
K0250.1902	aluminium	natural colour anodized	M2	14	8	14	6,7	4
K0250.1003	aluminium	natural colour anodized	M3	18	10	18	8,6	7,5
K0250.1104	aluminium	natural colour anodized	M4	21	12	21	10	10
K0250.1105	aluminium	natural colour anodized	M5	21	12	21	10	12,5
K0250.1206	aluminium	natural colour anodized	M6	25	14	25	12	12
K0250.1308	aluminium	natural colour anodized	M8	33	18	33	16	16
K0250.1410	aluminium	natural colour anodized	M10	40	24	40	18,7	20
K0250.2902	stainless steel	blasted	M2	14	8	14	6,7	4
K0250.2003	stainless steel	blasted	M3	18	10	18	8,6	7,5
K0250.2104	stainless steel	blasted	M4	21	12	21	10	10
K0250.2105	stainless steel	blasted	M5	21	12	21	10	12,5
K0250.2206	stainless steel	blasted	M6	25	14	25	12	12
K0250.2308	stainless steel	blasted	M8	33	18	33	16	16
K0250.2410	stainless steel	blasted	M10	40	24	40	18,7	20

Notes

Mushroom knobs

internal thread





NOVO grip mushroom knobs provide a special form of gripping: absolutely secure, quick and easy. This new form of gripping represented by the NOVO grip mushroom knob is unique. Find out for yourself!

Material:
Thermoplastic, black grey.
Bush steel 5.8 or
stainless steel 1.4305.

Version:
Blue passivated steel or bright stainless steel.

Sample order:
K0251.046 (cap colour traffic red.)

Note:
Δ Add the desired cap colour here. No colour code is required for black grey caps.

black grey	light grey Δ = 5	traffic red Δ = 6	bright yellow Δ = 7
RAL 7021	RAL 7035	RAL 3020	RAL 1021

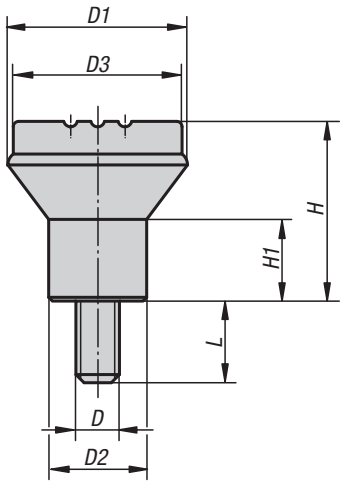
KIPP Mushroom knobs with internal thread

Order No. Steel	Order No. Stainless steel	Size	D	D1	D2	D3	H	H1	T
K0251.04Δ	**K0251.004Δ**	1	M4	21	12	19	21	10	10
K0251.05Δ	**K0251.005Δ**	1	M5	21	12	19	21	10	10
K0251.06Δ	**K0251.006Δ**	2	M6	25	14	23	25	12	10
K0251.08Δ	**K0251.008Δ**	3	M8	33	19	31	33	15	14

Mushroom knobs

external thread





NOVO grip mushroom knobs provide a special form of gripping: absolutely secure, quick and easy. This new form of gripping represented by the NOVO grip mushroom knob is unique. Find out for yourself!

Material:
Thermoplastic, black grey.
Screw steel 5.8 or
stainless steel 1.4305.

Version:
Blue passivated steel or
bright stainless steel.

Sample order:
K0251.046X10 (cap colour traffic red; include length L)

Note:
Δ Add the desired cap colour here. No colour code is required for black grey caps.

black grey	light grey Δ = 5	traffic red Δ = 6	bright yellow Δ = 7
RAL 7021	RAL 7035	RAL 3020	RAL 1021

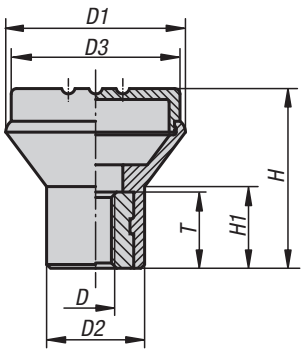
KIPP Mushroom knobs with external thread

Order No. Steel	Order No. Stainless steel	Size	D	D1	D2	D3	H	H1	L
K0251.04ΔX10	K0251.004ΔX10	1	M4	21	12	19	21	10	10
K0251.05ΔX10	K0251.005ΔX10	1	M5	21	12	19	21	10	10
K0251.06ΔX15	K0251.006ΔX15	2	M6	25	14	23	25	12	15
K0251.08ΔX15	K0251.008ΔX15	3	M8	33	19	31	33	15	15

Mushroom knobs biopolymer

internal thread





Material:
Biopolymer, beech.
Bush steel 5.8

Version:
Bush galvanized and blue passivated
Natural beech with beech fibres or coloured black grey.

Sample order:
K0251.1005143

Advantages:
This biopolymer is manufactured entirely from renewable raw materials (oil free).
Conservation of finite fossil resources.
The wood fibres originate 100% from local forests in Germany.
PEFC certified (guarantees that wood products originate from sustainably managed forests).

Features:
Excellent mechanical stability (certified with a minimum of 2x safety factor).
Biopolymer is suitable for recycling (comparable to thermoplastics).
Suitable for outdoor use (not biodegradable).
Excellent resistance to strong acids and lyes.
Short-term resistance to alcohol, fuel, mineral oil and grease.

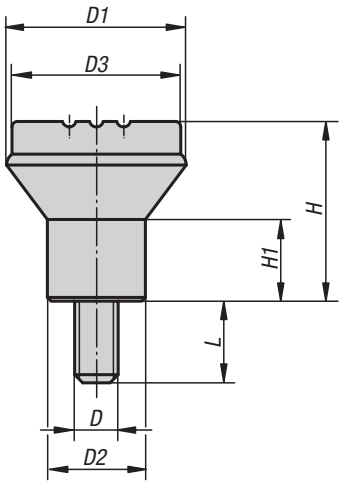
KIPP Mushroom knobs biopolymer with internal thread

Order No.	Main colour	Size	D	D1	D2	D3	H	H1	T
K0251.1005143	natural beech	1	M5	21	12	19	21	10	10
K0251.1006143	natural beech	2	M6	25	14	23	25	12	10
K0251.1008143	natural beech	3	M8	33	19	33	33	15	14
K0251.100590	black grey RAL 7021	1	M5	21	12	19	21	10	10
K0251.100690	black grey RAL 7021	2	M6	25	14	23	25	12	10
K0251.100890	black grey RAL 7021	3	M8	33	19	33	33	15	14

Mushroom knobs biopolymer

external thread





Material:
Biopolymer, beech.
Threaded pin steel 5.8.

Version:
Screw galvanized and blue passivated.
Natural beech with beech fibres or coloured black grey.

Sample order:
K0251.100590X10

Advantages:
This biopolymer is manufactured entirely from renewable raw materials (oil free).
Conservation of finite fossil resources.
The wood fibres originate 100% from local forests in Germany.
PEFC certified (guarantees that wood products originate from sustainably managed forests).

Features:
Excellent mechanical stability (certified with a minimum of 2x safety factor).
Biopolymer is suitable for recycling (comparable to thermoplastics).
Suitable for outdoor use (not biodegradable).
Excellent resistance to strong acids and lyes.
Short-term resistance to alcohol, fuel, mineral oil and grease.

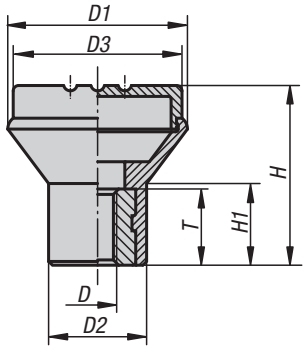
KIPP Mushroom knobs biopolymer with external thread

Order No.	Main colour	Size	D	D1	D2	D3	H	H1	L
K0251.1005143X10	natural beech	1	M5	21	12	19	21	10	10
K0251.1006143X15	natural beech	2	M6	25	14	23	25	12	15
K0251.1008143X15	natural beech	3	M8	33	19	33	33	15	15
K0251.100590X10	black grey RAL 7021	1	M5	21	12	19	21	10	10
K0251.100690X15	black grey RAL 7021	2	M6	25	14	23	25	12	15
K0251.100890X15	black grey RAL 7021	3	M8	33	19	33	33	15	15

Mushroom knobs antibacterial

internal thread, metal parts stainless steel





Material:
Thermoplastic, slate grey.
Bush stainless steel 1.4305.

Version:
Stainless steel bright.

Sample order:
K0251.12005144

Application:
The antibacterial KIPP MEDI grip products are highly effective against a variety of hazardous microorganisms, such as bacteria, fungi, viruses and even multi-resistant bacteria (e.g. MRSA).
The plastic used incorporates micro-silver particles with an antimicrobial effect to ensure effective results throughout the entire product life cycle.

Function:
Silver ions are effective in preventing harmful microorganisms from forming on the product surface, promoting a constant reduction of the existing germs on the MEDI grip products (as tested and confirmed by an accredited testing laboratory).
During cleaning cycles the risk of infection while touching these products is significantly lower.

Advantages:
Resistant to humidity and cleaning products (during disinfection) with no toxic side effects.

Applications:
For installation on machines, equipment, plants and furnishings in areas with increased hygienic requirements (including hospitals, doctors' surgeries, rehabilitation centres and food production facilities), as well as for use in public areas or regularly frequented institutions (i.e. nursing homes or daycare centres).

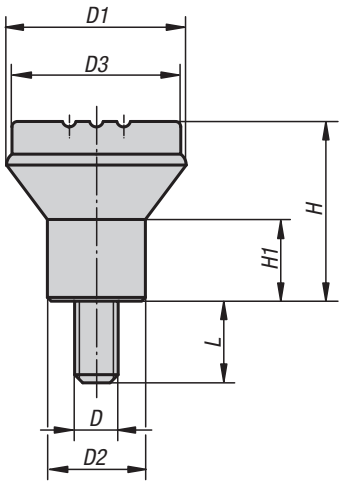
KIPP Mushroom knobs antibacterial internal thread, metal parts stainless steel

Order No.	Component material	Size	D	D1	D2	D3	H	H1	T
K0251.12005144	Stainless steel	1	M5	21	12	19	21	10	10

Mushroom knobs antibacterial

external thread, metal parts stainless steel





Material:
Thermoplastic, slate grey.
Threaded pin stainless steel 1.4305.

Version:
Stainless steel bright.

Sample order:
K0251.12005144X10

Application:
The antibacterial KIPP MEDI grip products are highly effective against a variety of hazardous microorganisms, such as bacteria, fungi, viruses and even multi-resistant bacteria (e.g. MRSA).
The plastic used incorporates micro-silver particles with an antimicrobial effect to ensure effective results throughout the entire product life cycle.

Function:
Silver ions are effective in preventing harmful microorganisms from forming on the product surface, promoting a constant reduction of the existing germs on the MEDI grip products (as tested and confirmed by an accredited testing laboratory).
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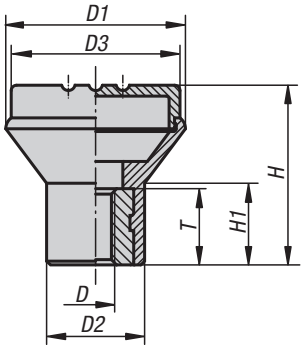
KIPP Mushroom knobs antibacterial, external thread, metal parts stainless steel

Order No.	Component material	Size	D	D1	D2	D3	H	H1	L
K0251.12005144X10	Stainless steel	1	M5	21	12	19	21	10	10

Mushroom knobs antistatic

internal thread





Material:
Thermoplastic, graphite black.
Bush steel 5.8.

Version:
Bush blue passivated

Sample order:
K0251.110524

Application:
Sensitive electrical or electronic equipment, components and devices (ESD sensitive elements) may be damaged or destroyed by electrostatic discharges (ESD) in the immediate vicinity.
Electrostatic discharges can come from people or through handling ESD sensitive components (e.g. during production, assembly, transport, storage etc).
Electrically conductive products which conform to DIN EN 61340-5-1 are essential within electronic environments to prevent an electrostatic discharge.
These products can be used for ESD applications or in ESD protection areas (EPA) in accordance with DIN EN 61340-5-1.
The yellow ESD logo is printed on the side of the product to clearly identify it.

Safety:
These ESD products can also be used for devices, components and protection systems in areas with high risk of explosion.
Use of these ESD products prevents the occurrence of electrostatic spark discharges, eliminating the potential ignition of gases and dusts which could lead to explosions in enclosed spaces.
Manufacturers and operators must use and conform to ATEX directives for the protection of persons working in areas with high risk of explosion.
These ESD products are certified by TÜV-Süd in relation to their electrical discharge capability.

Target groups:
Device manufacturers required to conform to ATEX product directive 2014/34/EU.
Operators required to conform to ATEX worker protection directive 1999/92/EC.

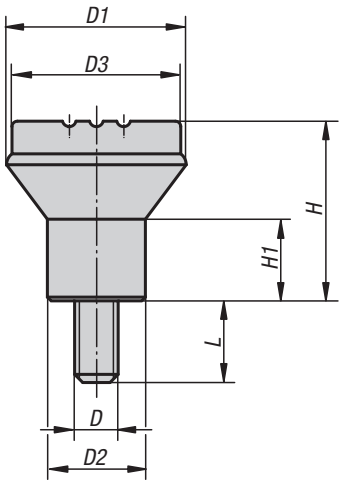
KIPP Mushroom knobs antistatic internal thread

Order No.	Main colour	Size	D	D1	D2	D3	H	H1	T
K0251.110524	graphite black RAL 9011	1	M5	21	12	19	21	10	10

Mushroom knobs antistatic

external thread





Material:
Thermoplastic, graphite black.
Threaded pin steel 5.8.

Version:
Screw blue passivated.

Sample order:
K0251.110524X10

Application:
Sensitive electrical or electronic equipment, components and devices (ESD sensitive elements) may be damaged or destroyed by electrostatic discharges (ESD) in the immediate vicinity.
Electrostatic discharges can come from people or through handling ESD sensitive components (e.g. during production, assembly, transport, storage etc).
Electrically conductive products which conform to DIN EN 61340-5-1 are essential within electronic environments to prevent an electrostatic discharge.
These products can be used for ESD applications or in ESD protection areas (EPA) in accordance with DIN EN 61340-5-1.
The yellow ESD logo is printed on the side of the product to clearly identify it.

Safety:
These ESD products can also be used for devices, components and protection systems in areas with high risk of explosion.
Use of these ESD products prevents the occurrence of electrostatic spark discharges, eliminating the potential ignition of gases and dusts which could lead to explosions in enclosed spaces.
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Target groups:
Device manufacturers required to conform to ATEX product directive 2014/34/EU.
Operators required to conform to ATEX worker protection directive 1999/92/EC.

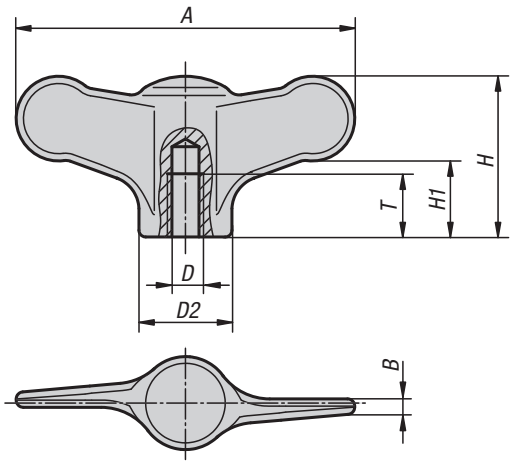
KIPP Mushroom knobs antistatic external thread

Order No.	Main colour	Size	D	D1	D2	D3	H	H1	L
K0251.110524X10	graphite black RAL 9011	1	M5	21	12	19	21	10	10

Wing grips

internal thread, stainless steel





Material:
Stainless steel 1.4308.

Version:
Blasted or ground and polished.

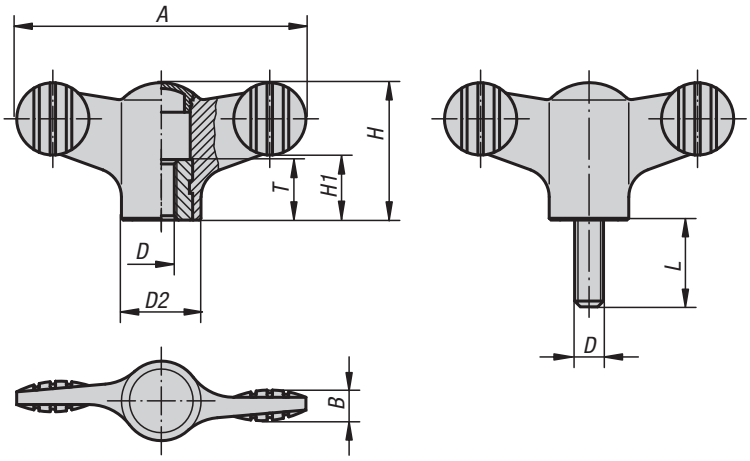
Sample order:
K0273.105

On request:
With external threads.

KIPP Wing grips with internal thread, stainless steel

Order No.	Version	D	D2	A	B	H	H1	T
K0273.904	polished	M4	10,5	38	1,7	18	8,5	9
K0273.905	polished	M5	10,5	38	1,7	18	8,5	9
K0273.906	polished	M6	10,5	38	1,7	18	8,5	9
K0273.105	polished	M5	14	50	2,3	24	11,5	12
K0273.106	polished	M6	14	50	2,3	24	11,5	12
K0273.208	polished	M8	21	75	3,4	35	16,5	15
K0273.210	polished	M10	21	75	3,4	35	16,5	15
K0273.9041	blasted	M4	10,5	38	1,7	18	8,5	9
K0273.9051	blasted	M5	10,5	38	1,7	18	8,5	9
K0273.9061	blasted	M6	10,5	38	1,7	18	8,5	9
K0273.1051	blasted	M5	14	50	2,3	24	11,5	12
K0273.1061	blasted	M6	14	50	2,3	24	11,5	12
K0273.2081	blasted	M8	21	75	3,4	35	16,5	15
K0273.2101	blasted	M10	21	75	3,4	35	16,5	15

Wing grips





For many people the modern Novo·Grip wing grips represent the perfect constructive and technical solution for absolutely “natural” gripping. It enables more comfortable handling than ever before.

Material:
Grip black grey thermoplastic.
Bush and screw steel 5.8 or stainless steel 1.4305.

Version:
Bush or screw blue passivated or bright stainless steel.

Sample order:
K0274.1057X20 (cap colour bright yellow; include length L)

Note:
Δ Add the desired cap colour here. No colour code is required for black grey caps.

black grey	light grey Δ = 5	traffic red Δ = 6	bright yellow Δ = 7
 RAL 7021	 RAL 7035	 RAL 3020	 RAL 1021

KIPP Wing grips with internal thread

Order No. Steel	Order No. Stainless steel	D	D2	A	B	H	H1	T
K0274.904Δ	K0274.0904Δ	M4	12	38	4,5	18	8,5	10
K0274.905Δ	K0274.0905Δ	M5	12	38	4,5	18	8,5	10
K0274.906Δ	K0274.0906Δ	M6	12	38	4,5	18	8,5	10
K0274.105Δ	K0274.0105Δ	M5	14	50	5	24	11,5	10
K0274.106Δ	K0274.0106Δ	M6	14	50	5	24	11,5	10
K0274.208Δ	K0274.0208Δ	M8	21	75	7	35,6	16,5	14
K0274.210Δ	K0274.0210Δ	M10	21	75	7	35,6	16,5	14

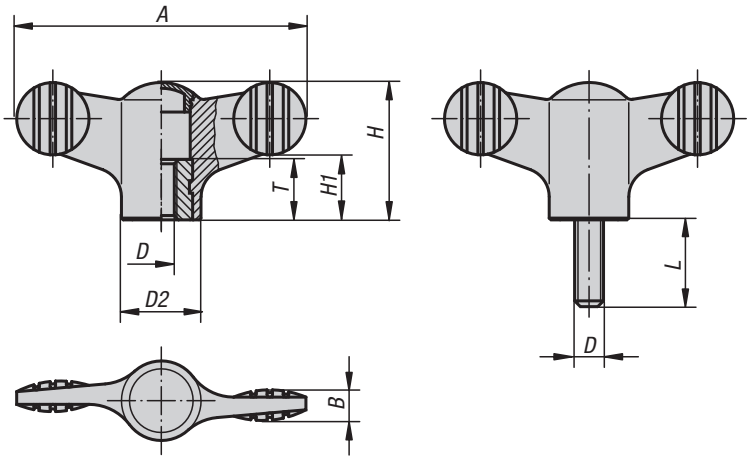
KIPP Wing grips with external thread

Order No. Steel	Order No. Stainless steel	D	A	B	D2	H	H1	L
K0274.904ΔX	K0274.0904ΔX	M4	38	4,5	12	18	8,5	10/15
K0274.905ΔX	K0274.0905ΔX	M5	38	4,5	12	18	8,5	15/20/30
K0274.906ΔX	K0274.0906ΔX	M6	38	4,5	12	18	8,5	20/30/40
K0274.105ΔX	K0274.0105ΔX	M5	50	5	14	24	11,5	15/20
K0274.106ΔX	K0274.0106ΔX	M6	50	5	14	24	11,5	20/30/40
K0274.108ΔX	K0274.0108ΔX	M8	50	5	14	24	11,5	20/30/40
K0274.208ΔX	K0274.0208ΔX	M8	75	7	21	35,6	16,5	20/30/40
K0274.210ΔX	K0274.0210ΔX	M10	75	7	21	35,6	16,5	20/30/40/50

Wing grips antibacterial

metal parts stainless steel





Material:
Thermoplastic, slate grey.
Bush and screw stainless steel 1.4305.

Version:
Bush and screw bright.

Sample order:
K0274.120106144X20

Application:
The antibacterial KIPP MEDI grip products are highly effective against a variety of hazardous microorganisms, such as bacteria, fungi, viruses and even multi-resistant bacteria (e.g. MRSA).
The plastic used incorporates micro-silver particles with an antimicrobial effect to ensure effective results throughout the entire product life cycle.

Function:
Silver ions are effective in preventing harmful microorganisms from forming on the product surface, promoting a constant reduction of the existing germs on the MEDI grip products (as tested and confirmed by an accredited testing laboratory).
During cleaning cycles the risk of infection while touching these products is significantly lower.

Advantages:
Resistant to humidity and cleaning products (during disinfection) with no toxic side effects.

Applications:
For installation on machines, equipment, plants and furnishings in areas with increased hygienic requirements (including hospitals, doctors' surgeries, rehabilitation centres and food production facilities), as well as for use in public areas or regularly frequented institutions (i.e. nursing homes or daycare centres).

KIPP Wing grips antibacterial internal thread, metal parts stainless steel

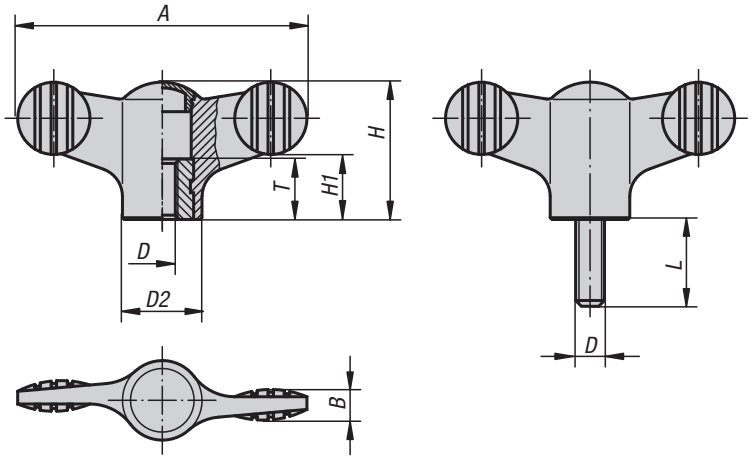
Order No.	Component material	D	A	B	D2	H	H1	T
K0274.120106144	Stainless steel	M6	50	5	14	24	11,5	10

KIPP Wing grips antibacterial external thread, metal parts stainless steel

Order No.	Component material	D	A	B	D2	H	H1	L
K0274.120106144X20	Stainless steel	M6	50	5	14	24	11,5	20

Wing grips antistatic





Material:
Thermoplastic, graphite black.
Bush or screw steel 5.8.

Version:
Screw blue passivated.

Sample order:
K0274.1110624X20

Application:
Sensitive electrical or electronic equipment, components and devices (ESD sensitive elements) may be damaged or destroyed by electrostatic discharges (ESD) in the immediate vicinity.
Electrostatic discharges can come from people or through handling ESD sensitive components (e.g. during production, assembly, transport, storage etc).
Electrically conductive products which conform to DIN EN 61340-5-1 are essential within electronic environments to prevent an electrostatic discharge.
These products can be used for ESD applications or in ESD protection areas (EPA) in accordance with DIN EN 61340-5-1.
The yellow ESD logo is printed on the side of the product to clearly identify it.

Safety:
These ESD products can also be used for devices, components and protection systems in areas with high risk of explosion.
Use of these ESD products prevents the occurrence of electrostatic spark discharges, eliminating the potential ignition of gases and dusts which could lead to explosions in enclosed spaces.
Manufacturers and operators must use and conform to ATEX directives for the protection of persons working in areas with high risk of explosion.
These ESD products are certified by TÜV-Süd in relation to their electrical discharge capability.

Target groups:
Device manufacturers required to conform to ATEX product directive 2014/34/EU.
Operators required to conform to ATEX worker protection directive 1999/92/EC.

KIPP Wing grips antistatic with internal thread

Order No.	Component material	A	B	D	D2	H	H1	T
K0274.1110624	Steel	50	5	M6	14	24	11,5	10

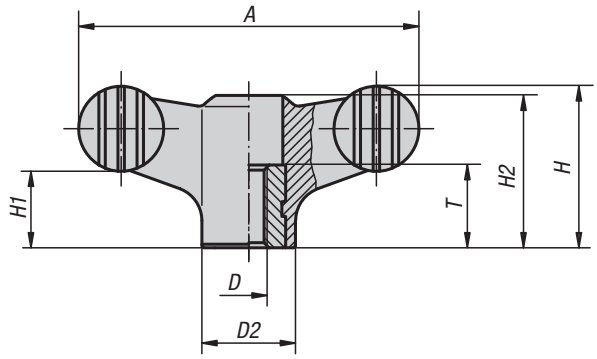
KIPP Wing grips antistatic with external thread

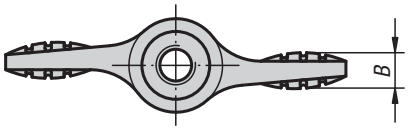
Order No.	Component material	A	B	D	D2	H	H1	L
K0274.1110624X20	Steel	50	5	M6	14	24	11,5	20

Wing grips

tapped through







For many the modern Novo-Grip wing grips represent the perfect constructive and technical solution for absolutely “natural” gripping. It enables more comfortable handling than ever before.

Material:
Grip black.
Bush steel 5.8 or stainless steel 1.4305.

Version:
Grip black grey.
Bush blue passivated steel
or bright stainless steel.

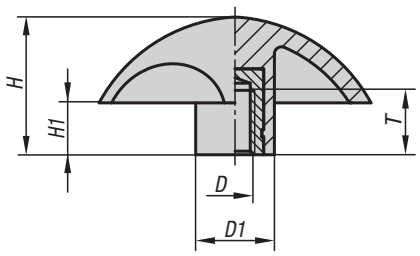
Sample order:
K0274.1904

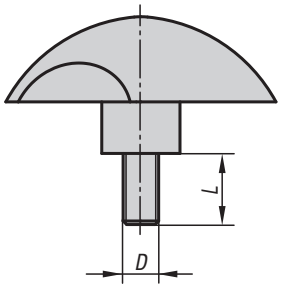
KIPP Wing grips with tapped through bush

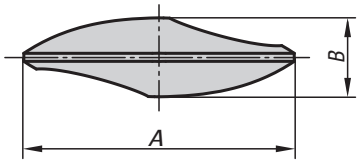
Order No.	Component material	D	D2	A	B	H	H1	H2	T
K0274.1904	Steel	M4	12	38	4,5	18	8,5	16,1	10
K0274.1905	Steel	M5	12	38	4,5	18	8,5	16,1	10
K0274.1906	Steel	M6	12	38	4,5	18	8,5	16,1	10
K0274.1105	Steel	M5	14	50	5	24	11,5	22	10
K0274.1106	Steel	M6	14	50	5	24	11,5	22	10
K0274.1208	Steel	M8	21	75	7	35,6	17	33,3	14
K0274.1210	Steel	M10	21	75	7	35,6	17	33,3	14
K0274.10904	Stainless steel	M4	12	38	4,5	18	8,5	16,1	10
K0274.10905	Stainless steel	M5	12	38	4,5	18	8,5	16,1	10
K0274.10906	Stainless steel	M6	12	38	4,5	18	8,5	16,1	10
K0274.10105	Stainless steel	M5	14	50	5	24	11,5	22	10
K0274.10106	Stainless steel	M6	14	50	5	24	11,5	22	10
K0274.10208	Stainless steel	M8	21	75	7	35,6	17	33,3	14
K0274.10210	Stainless steel	M10	21	75	7	35,6	17	33,3	14

Wing grips









Material:
Grip polyamide, glass bead reinforced.
Bush brass or steel.
Screw steel.
Version:
Steel galvanized.
Sample order:
K0783.15006
Note:
Temperature resistance from -50 °C to 130 °C.
Resistant to common chemicals and oils.

KIPP Wing grips with internal thread

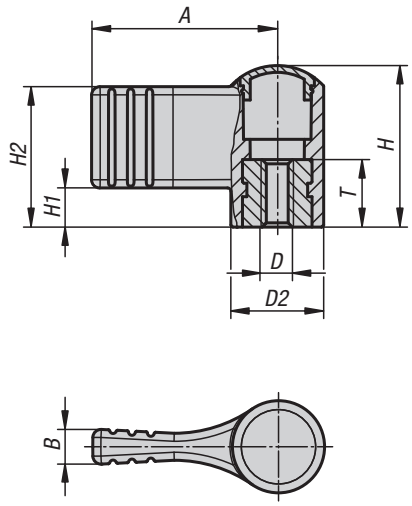
Order No.	Component material	D	D1	A	B	H	H1	T
K0783.15006	Brass	M6	15	51	15	25,5	9,5	9
K0783.16008	Steel	M8	18	61,5	18	31	11,5	14
K0783.17510	Steel	M10	22	76	22	38,5	14,5	14

KIPP Wing grips with external thread

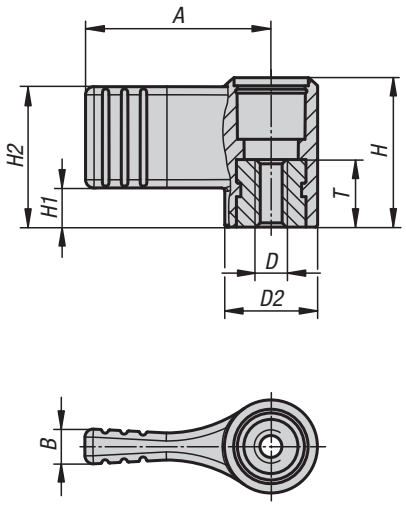
Order No.	Component material	D	D1	A	B	H	H1	L
K0783.25006X15	Steel	M6	15	51	15	25,5	9,5	15
K0783.26008X20	Steel	M8	18	61,5	18	31	11,5	20
K0783.27510X20	Steel	M10	22	76	22	38,5	14,5	20

Wing grips one-sided

Form K
with cap



Form D
without cap





Material:
Thermoplastic.
Bush steel 5.8 or stainless steel 1.4305.

Version:
Black grey. Bush blue passivated or bright stainless steel.

Sample order:
K0608.09046 (Bush M4 stainless steel, cap traffic red.)

Note:
Δ Add the desired cap colour here. No colour code is required for black grey caps.

black grey	light grey Δ = 5	traffic red Δ = 6	bright yellow Δ = 7
			
RAL 7021	RAL 7035	RAL 3020	RAL 1021

KIPP Wing grips, one-sided with cap

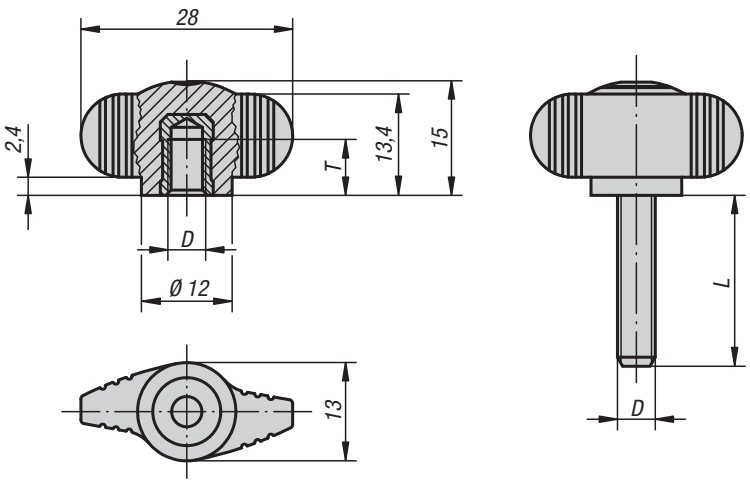
Order No. Steel	Order No. Stainless steel	Form	Size	D	D2	A	B	H	H1	H2	T
K0608.904Δ	K0608.0904Δ	K	9	M4	12	22	4,4	18	4,5	15,5	10
K0608.905Δ	K0608.0905Δ	K	9	M5	12	22	4,4	18	4,5	15,5	10
K0608.906Δ	K0608.0906Δ	K	9	M6	12	22	4,4	18	4,5	15,5	10
K0608.105Δ	K0608.0105Δ	K	1	M5	14	27,5	5,1	24	5,8	20,8	10
K0608.106Δ	K0608.0106Δ	K	1	M6	14	27,5	5,1	24	5,8	20,8	10
K0608.208Δ	K0608.0208Δ	K	2	M8	21	37,5	6,3	36	8,5	30,5	14
K0608.210Δ	K0608.0210Δ	K	2	M10	21	37,5	6,3	36	8,5	30,5	14

KIPP Wing grips, one-sided without cap

Order No. Steel	Order No. Stainless steel	Form	Size	D	D2	A	B	H	H1	H2	T
K0608.1904	K0608.10904	D	9	M4	12	22	4,4	16,1	4,5	15,5	10
K0608.1905	K0608.10905	D	9	M5	12	22	4,4	16,1	4,5	15,5	10
K0608.1906	K0608.10906	D	9	M6	12	22	4,4	16,1	4,5	15,5	10
K0608.1105	K0608.10105	D	1	M5	14	27,5	5,1	22,1	5,8	20,8	10
K0608.1106	K0608.10106	D	1	M6	14	27,5	5,1	22,1	5,8	20,8	10
K0608.1208	K0608.10208	D	2	M8	21	37,5	6,3	33,3	8,5	30,5	14
K0608.1210	K0608.10210	D	2	M10	21	37,5	6,3	33,3	8,5	30,5	14

Wing grips “Miniwing”





Technical freedom played an important role during the development of these small sized wing grips. The result is a miniwing that is far more than a means to an end. It is a rational and comfortable to use operating and working element.

Material:
Grip black grey thermoplastic.
Bush brass or stainless steel 1.4305.
Screw steel 5.8 or stainless steel 1.4305.

Version:
Steel blue passivated.
Stainless steel, bright.

Sample order:
K0274.005X10 (include length L)

KIPP Wing grips “Miniwing” with internal thread

Order No.	Component material	D	T
K0274.004	Brass	M4	6
K0274.005	Brass	M5	7,5
K0274.006	Brass	M6	9
K0274.0004	Stainless steel	M4	6
K0274.0005	Stainless steel	M5	7,5
K0274.0006	Stainless steel	M6	9

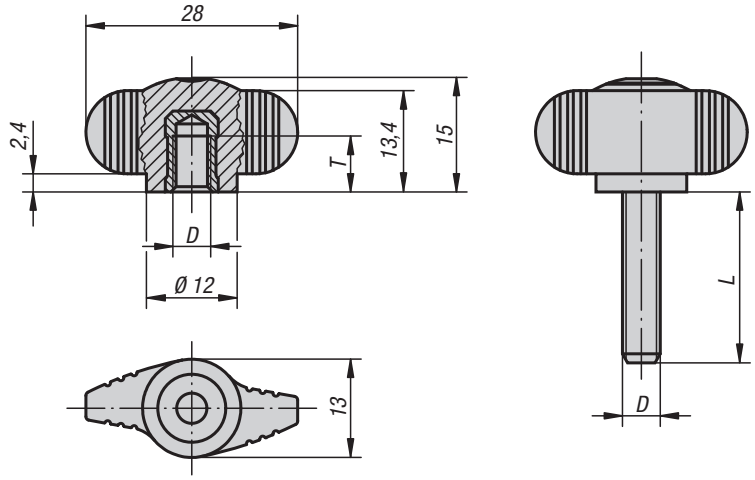
KIPP Wing grips “Miniwing” with external thread

Order No.	Component material	D	L
K0274.004X	Steel	M4	8
K0274.005X	Steel	M5	10/15/20
K0274.006X	Steel	M6	10/15/20/25/30
K0274.008X	Steel	M8	20/25/30/40
K0274.0004X	Stainless steel	M4	8
K0274.0005X	Stainless steel	M5	10/15/20
K0274.0006X	Stainless steel	M6	10/15/20/25/30
K0274.0008X	Stainless steel	M8	20/25/30/40

Wing grips “Miniwing” antibacterial

metal parts stainless steel





Material:
Thermoplastic, slate grey.
Bush and screw stainless steel 1.4305.

Version:
Bush and screw bright.

Sample order:
K0274.120006144

Application:
The antibacterial KIPP MEDI grip products are highly effective against a variety of hazardous microorganisms, such as bacteria, fungi, viruses and even multi-resistant bacteria (e.g. MRSA).
The plastic used incorporates micro-silver particles with an antimicrobial effect to ensure effective results throughout the entire product life cycle.

Function:
Silver ions are effective in preventing harmful microorganisms from forming on the product surface, promoting a constant reduction of the existing germs on the MEDI grip products (as tested and confirmed by an accredited testing laboratory).
During cleaning cycles the risk of infection while touching these products is significantly lower.

Advantages:
Resistant to humidity and cleaning products (during disinfection) with no toxic side effects.

Applications:
For installation on machines, equipment, plants and furnishings in areas with increased hygienic requirements (including hospitals, doctors‘ surgeries, rehabilitation centres and food production facilities), as well as for use in public areas or regularly frequented institutions (i.e. nursing homes or daycare centres).

KIPP Wing grips “Miniwing” antibacterial internal thread, metal parts stainless steel

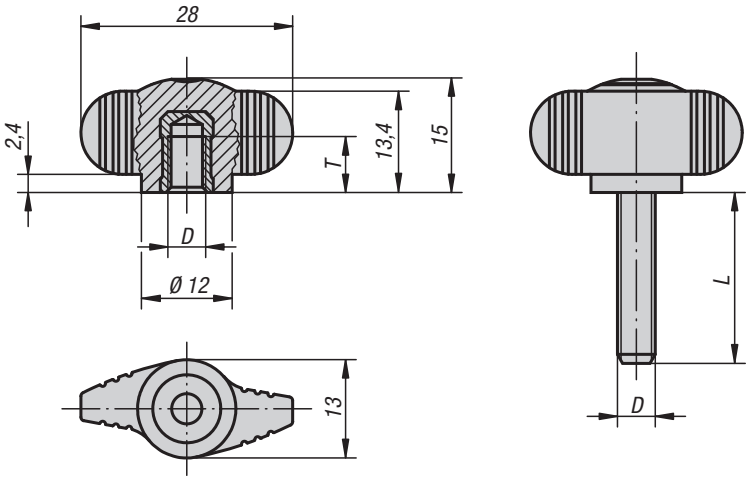
Order No.	Component material	D	T
K0274.120006144	Stainless steel	M6	9

KIPP Wing grips “Miniwing” antibacterial external thread, metal parts stainless steel

Order No.	Component material	D	L
K0274.120006144X15	Stainless steel	M6	15

Wing grips “Miniwing” antistatic





Material:
Thermoplastic, graphite black.
Bush brass or threaded pin steel 5.8.

Version:
Screw blue passivated.

Sample order:
K0274.1100624X15

Application:
Sensitive electrical or electronic equipment, components and devices (ESD sensitive elements) may be damaged or destroyed by electrostatic discharges (ESD) in the immediate vicinity. Electrostatic discharges can come from people or through handling ESD sensitive components (e.g. during production, assembly, transport, storage etc).
Electrically conductive products which conform to DIN EN 61340-5-1 are essential within electronic environments to prevent an electrostatic discharge.
These products can be used for ESD applications or in ESD protection areas (EPA) in accordance with DIN EN 61340-5-1.
The yellow ESD logo is printed on the side of the product to clearly identify it.

Safety:
These ESD products can also be used for devices, components and protection systems in areas with high risk of explosion.
Use of these ESD products prevents the occurrence of electrostatic spark discharges, eliminating the potential ignition of gases and dusts which could lead to explosions in enclosed spaces.
Manufacturers and operators must use and conform to ATEX directives for the protection of persons working in areas with high risk of explosion.
These ESD products are certified by TÜV-Süd in relation to their electrical discharge capability.

Target groups:
Device manufacturers required to conform to ATEX product directive 2014/34/EU.
Operators required to conform to ATEX worker protection directive 1999/92/EC.

KIPP Wing grips “Miniwing” antistatic with internal thread

Order No.	Component material	D	T
K0274.1100624	Steel	M6	9

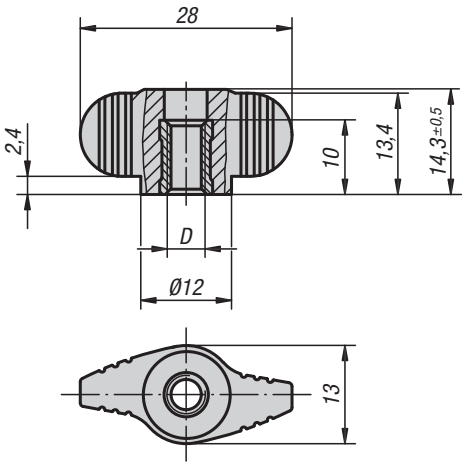
KIPP Wing grips “Miniwing” antistatic with external thread

Order No.	Component material	D	L
K0274.1100624X15	Steel	M6	15

Wing grips “Miniwing”

tapped through





Technical freedom played an important role during the development of these small sized wing grips. The result is a miniwing that is far more than a means to an end. It is a rational and comfortable to use operating and working element.

Material:
Grip thermoplastic.
Bush steel 5.8 or stainless steel 1.4305.

Version:
Grip black grey.
Steel blue passivated.
Stainless steel bright.

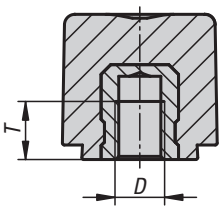
Sample order:
K0658.1004

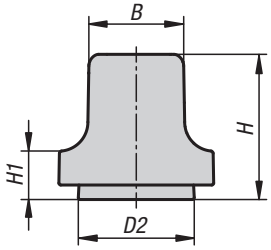
KIPP Wing grips “Miniwing” with tapped through bush

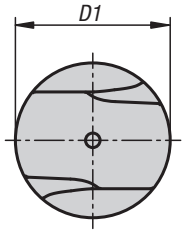
Order No.	Component material	D
K0658.1004	Steel	M4
K0658.1005	Steel	M5
K0658.1006	Steel	M6
K0658.10004	Stainless steel	M4
K0658.10005	Stainless steel	M5
K0658.10006	Stainless steel	M6

Grip nuts









Material:
Thermoplastic black.
Bush steel, stainless steel or brass.

Version:
Bush blue passivated steel, stainless steel and brass bright.

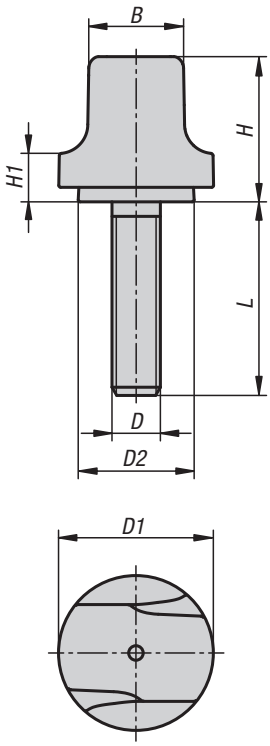
Sample order:
K1126.103

KIPP Grip nuts

Order No.	Component material	B	D	D1	D2	H	H1	T
K1126.103	Brass	10	M3	16	12	15	5	4,5
K1126.104	Brass	10	M4	16	12	15	5	6
K1126.204	Brass	12,3	M4	20	15	18,5	6	6
K1126.205	Brass	12,3	M5	20	15	18,5	6	6
K1126.305	Steel	15,3	M5	25	18,7	22,9	7,3	8,5
K1126.306	Steel	15,3	M6	25	18,7	22,9	7,3	9
K1126.1003	Stainless steel	10	M3	16	12	15	5	4,5
K1126.1004	Stainless steel	10	M4	16	12	15	5	6
K1126.2004	Stainless steel	12,3	M4	20	15	18,5	6	6
K1126.2005	Stainless steel	12,3	M5	20	15	18,5	6	6
K1126.3005	Stainless steel	15,3	M5	25	18,7	22,9	7,3	8,5
K1126.3006	Stainless steel	15,3	M6	25	18,7	22,9	7,3	9

Grip screws





Material:
Thermoplastic black. Screw steel or stainless steel.

Version:
Screw blue passivated steel or bright stainless steel.

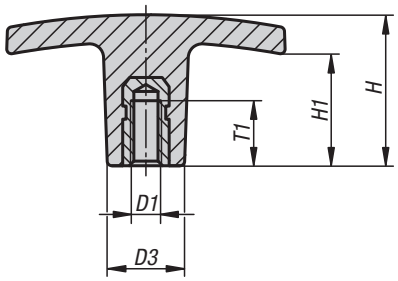
Sample order:
K1126.103X8 (include length L.)

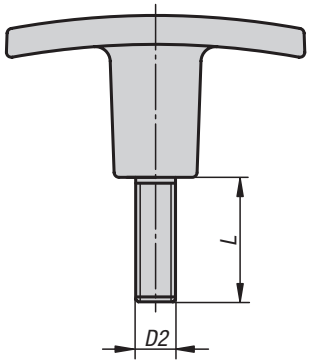
KIPP Grip screws

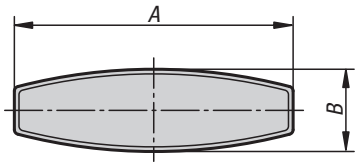
Order No. Steel	Order No. Stainless steel	B	D	D1	D2	H	H1	L
K1126.103X	**K1126.1003X**	10	M3	16	12	15	5	8/10/12/15
K1126.104X	**K1126.1004X**	10	M4	16	12	15	5	10/15/20
K1126.105X	**K1126.1005X**	10	M5	16	12	15	5	10/15/20
K1126.204X	**K1126.2004X**	12,3	M4	20	15	18,5	6	10/15/20
K1126.205X	**K1126.2005X**	12,3	M5	20	15	18,5	6	10/15/20/25
K1126.206X	**K1126.2006X**	12,3	M6	20	15	18,5	6	10/15/20/25
K1126.305X	**K1126.3005X**	15,3	M5	25	18,7	22,9	7,3	10/15/20/25
K1126.306X	**K1126.3006X**	15,3	M6	25	18,7	22,9	7,3	10/15/20/25
K1126.308X	**K1126.3008X**	15,3	M8	25	18,7	22,9	7,3	15/20/25/30

T-grips







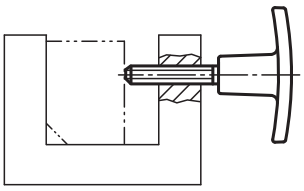


Material:
Fibreglass reinforced thermoplastic.
Tapped bush brass.
Screw steel.

Version:
Grip, black.
Screw galvanized.

Sample order:
K0180.25005X15 (include length L)

On request:
Grip colour red, yellow, green, blue, white or grey (min. quanitity 500).



KIPP T-grips, with internal thread

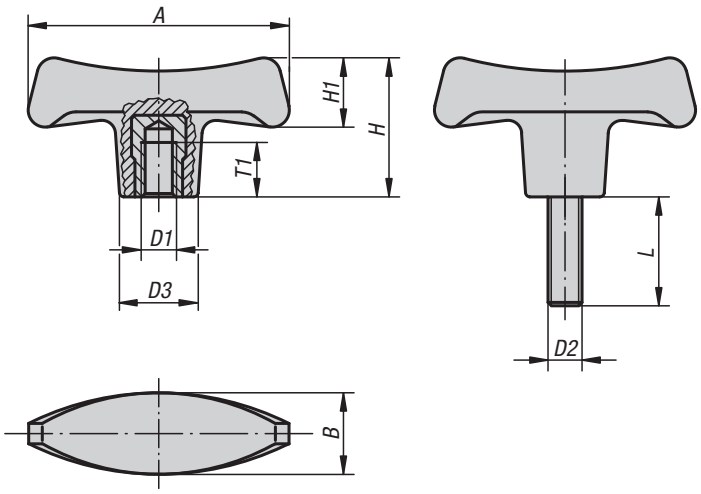
Order No.	A	B	D1	D3	H	H1	T1
K0180.14005	40	13	M5	13	30,5	20	10
K0180.15005	50	15	M5	14	24	16	10
K0180.16006	60	17	M6	16	31,5	23	12
K0180.17108	71	19,5	M8	20	36	19	20
K0180.17110	71	19,5	M10	20	36	19	20
K0180.18010	80	26	M10	26	39,5	26	25
K0180.18012	80	26	M12	26	39,5	26	25

KIPP T-grips, with external thread

Order No.	A	B	D2	D3	H	H1	L
K0180.24005X	40	13	M5	13	30,5	20	15
K0180.25005X	50	15	M5	14	24	16	15/20
K0180.26006X	60	17	M6	16	31,5	23	20/25
K0180.27108X	71	19,5	M8	20	36	19	20/30
K0180.27110X	71	19,5	M10	20	36	19	20/30
K0180.28010X	80	26	M10	26	39,5	26	30
K0180.28012X	80	26	M12	26	39,5	26	40

T-grips





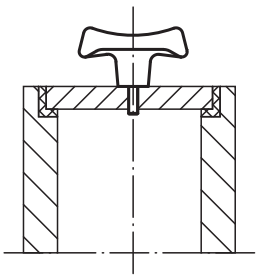
Material:
Duroplast PF 31, black.
Bush and stud galvanized steel.

Version:
High-gloss polished.

Sample order:
K0181.27006X18 (include length L)

Note:
The versions K0181.17008 and K0181.18008 have a copper plated steel bush.

On request:
Other screw sizes, screw lengths and colours.



KIPP T-grips, with internal thread

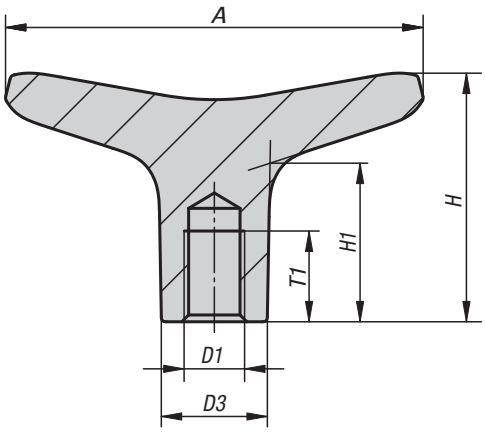
Order No.	A	B	D1	D3	H	H1	T1
K0181.17006	70	22	M6	19,6	38,8	20,2	12
K0181.17008	70	22	M8	19,6	38,8	20,2	14
K0181.17010	70	22	M10	19,6	38,8	20,2	14
K0181.18008	80	25	M8	22,3	44	23	14
K0181.18010	80	25	M10	22,3	44	23	22
K0181.19010	90	28	M10	25	49,6	26	22
K0181.19012	90	28	M12	25	49,6	26	21

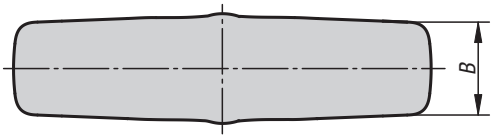
KIPP T-grips, with external thread

Order No.	A	B	D2	D3	H	H1	L
K0181.27006X	70	22	M6	19,6	38,8	20,2	18
K0181.27008X	70	22	M8	19,6	38,8	20,2	24
K0181.28010X	80	25	M10	22,3	44	23	20/30
K0181.29010X	90	28	M10	25	49,6	26	30
K0181.29012X	90	28	M12	25	49,6	26	24

T-grips stainless steel







Material:
Stainless steel 1.4308.

Version:
Electropolished or blasted.

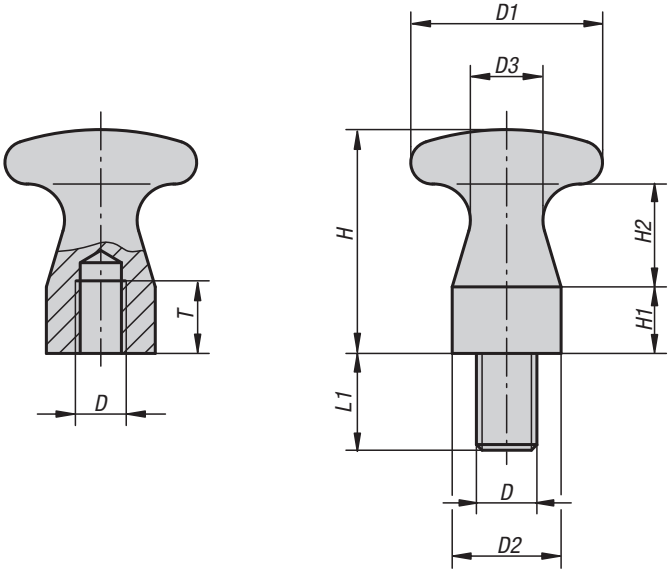
Sample order:
K1203.55061

KIPP T-grips, stainless steel

Order No.	Surface	A	B	D1	D3	H	H1	T1
K1203.55061	blasted	55,2	12,3	M6	14	32,9	21	12
K1203.55081	blasted	55,2	12,3	M8	14	32,9	21	12
K1203.65061	blasted	65,3	14	M6	16	37	22,7	16
K1203.65081	blasted	65,3	14	M8	16	37	22,7	16
K1203.65101	blasted	65,3	14	M10	16	37	22,7	16
K1203.75101	blasted	75,3	17,8	M10	20	41,2	24,9	16
K1203.75121	blasted	75,3	17,8	M12	20	41,2	24,9	16
K1203.55062	electropolished	55,2	12,3	M6	14	32,9	21	12
K1203.55082	electropolished	55,2	12,3	M8	14	32,9	21	12
K1203.65062	electropolished	65,3	14	M6	16	37	22,7	16
K1203.65082	electropolished	65,3	14	M8	16	37	22,7	16
K1203.65102	electropolished	65,3	14	M10	16	37	22,7	16
K1203.75102	electropolished	75,3	17,8	M10	20	41,2	24,9	16
K1203.75122	electropolished	75,3	17,8	M12	20	41,2	24,9	16

Knobs flat





Material:
Steel.

Version:
Black oxidised.

Sample order:
K0157.08

KIPP Knobs flat, internal thread

Order No.	D	D1	D2	D3	H	H1	H2	T
K0157.05	M5	16	10	6	18	5	9	7
K0157.06	M6	25	14	10	29	9	13	9
K0157.08	M8	32	18	12	37	11	17	12
K0157.10	M10	36	20	13	42	12	20	15

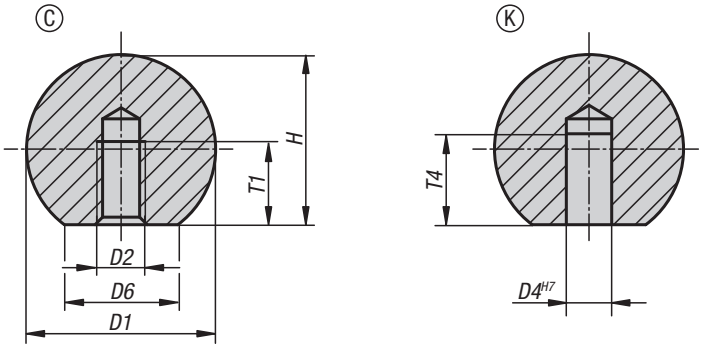
KIPP Knobs flat, external thread

Order No.	D	D1	D2	D3	H	H1	H2	L1
K0157.06010	M6	16	10	6	18	5	9	10
K0157.08014	M8	25	14	10	29	9	13	14
K0157.10016	M10	32	18	12	37	11	17	16
K0157.12018	M12	36	20	13	42	12	20	18

Ball knobs

stainless steel or aluminium, DIN 319





Material:
Stainless steel 1.4305 or aluminium.

Version:
Polished.

Sample order:
K0650.116043

Drawing reference:
Form C: thread
Form K: hole

KIPP Ball Knobs, stainless steel or aluminium to DIN 319

Order No.	Form	Main material	D1	D2	D6	H	T1 min.
K0650.116043	C	stainless steel	16	M4	8	15	7,2
K0650.120053	C	stainless steel	20	M5	12	18	9,1
K0650.125063	C	stainless steel	25	M6	15	22,5	11
K0650.132083	C	stainless steel	32	M8	18	29	14,5
K0650.140103	C	stainless steel	40	M10	22	37	18
K0650.150123	C	stainless steel	50	M12	28	46	21
K0650.116042	C	aluminium	16	M4	8	15	7,2
K0650.120052	C	aluminium	20	M5	12	18	9,1
K0650.125062	C	aluminium	25	M6	15	22,5	11
K0650.132082	C	aluminium	32	M8	18	29	14,5
K0650.140102	C	aluminium	40	M10	22	37	18
K0650.150122	C	aluminium	50	M12	28	46	21

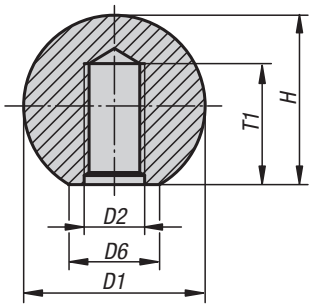
Order No.	Form	Main material	D1	D4	D6	H	T4 min.
K0650.316043	K	stainless steel	16	6	8	15	10
K0650.320053	K	stainless steel	20	8	12	18	12
K0650.325063	K	stainless steel	25	10	15	22,5	16
K0650.332083	K	stainless steel	32	12	18	29	20
K0650.340103	K	stainless steel	40	16	22	37	25
K0650.350123	K	stainless steel	50	20	28	46	32
K0650.316042	K	aluminium	16	6	8	15	10
K0650.320052	K	aluminium	20	8	12	18	12
K0650.325062	K	aluminium	25	10	15	22,5	16
K0650.332082	K	aluminium	32	12	18	29	20
K0650.340102	K	aluminium	40	16	22	37	25
K0650.350122	K	aluminium	50	20	28	46	32

Ball knobs

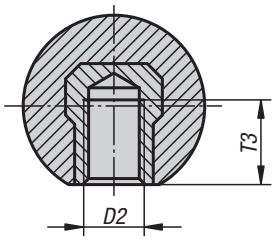
thermoplastic, DIN 319 enhanced



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Material:
Black thermoplastic.
Bush steel.

Version:
Steel galvanized.

Sample order:
K0158.11604

On request:
Other colours.

Drawing reference:
Form C: plastic thread
Form E: tapped bush

KIPP Ball knobs thermoplastic DIN 319 enhanced

Order No.	Form	D1	D2	D6	H	T1 min.	T3 min.
K0158.11604	C	16	M4	8	15	6	-
K0158.11605	C	16	M5	8	15	7,5	-
K0158.12005	C	20	M5	12	18	7,5	-
K0158.12006	C	20	M6	12	18	9	-
K0158.12506	C	25	M6	15	22,5	9	-
K0158.12508	C	25	M8	15	22,5	12	-
K0158.13208	C	32	M8	18	29	12	-
K0158.13210	C	32	M10	18	29	15	-
K0158.22005	E	20	M5	12	18	-	7,5
K0158.22006	E	20	M6	12	18	-	7,5
K0158.22506	E	25	M6	15	22,5	-	9
K0158.22508	E	25	M8	15	22,5	-	9
K0158.23208	E	32	M8	18	29	-	12
K0158.23210	E	32	M10	18	29	-	12

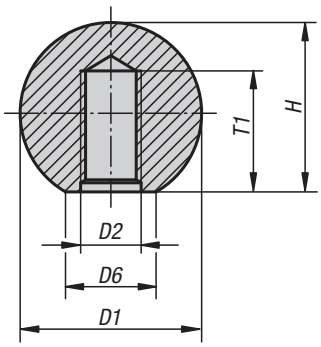
Notes

Ball knobs smooth

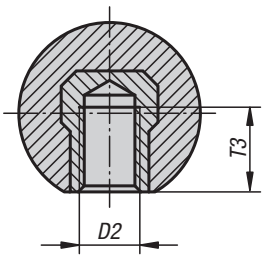
DIN 319 enhanced



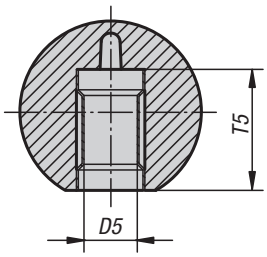
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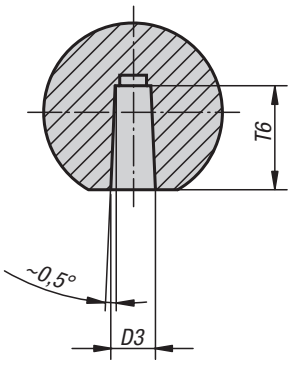
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Drawing reference:
Form C: moulded thread
Form E: tapped bush
Form L: press-fit sleeve
Form M: tapered hole

Material:
Black Duroplast PF 31.
Bush galvanized steel.

Version:
High-gloss polished.

Sample order:
K0159.11604

Note:
Assembly, Form L: The ball knobs are installed by tapping lightly with a hammer. Please only use a rubber or plastic hammer with a weight up to 200 g!

The version K0159.21604 has a brass bush.
The versions K0159.23008, K0159.23508 and K0159.24008 have copper plated steel bushes.

On request:
* These versions are available from stock in dark red at extra charge.

Shank tolerance:
Ball knobs with press-fit sleeve can be mounted on standard shafts with tolerance h9. The supplied press-fit sleeve assures a firm and reliable fit.

KIPP Ball knobs smooth DIN 319 enhanced, Form C, with molded thread

Order No.	Form	D1	D2	D6	H	T1 min.
K0159.11604	C	16	M4	8	15	6
K0159.11605	C	16	M5	8	15	7,5
K0159.11606	C	16	M6	8	15	9
K0159.12005*	C	20	M5	12	18	7,5
K0159.12006	C	20	M6	12	18	9
K0159.12506*	C	25	M6	15	23	9
K0159.12508	C	25	M8	15	23	12
K0159.13008*	C	30	M8	16	28	12
K0159.13208*	C	32	M8	18	29	12
K0159.13210	C	32	M10	18	29	15
K0159.13508	C	36	M8	17	33	18
K0159.13510*	C	36	M10	17	33	15
K0159.14008	C	40	M8	20	37,5	12
K0159.14010*	C	40	M10	20	37,5	15
K0159.14012	C	40	M12	20	37,5	18
K0159.14510	C	45	M10	20	43	15
K0159.14512	C	45	M12	20	43	18
K0159.15010	C	50	M10	22	48	15
K0159.15012*	C	50	M12	28	48	18

Ball knobs smooth

DIN 319 enhanced

KIPP Ball knobs smooth DIN 319 enhanced, Form E, with tapped bush

Order No.	Form	D1	D2	D6	H	T3 min.
K0159.21604	E	16	M4	8	15	6
K0159.22005*	E	20	M5	12	18	7,5
K0159.22006	E	20	M6	12	18	9
K0159.22506*	E	25	M6	15	23	9
K0159.22508	E	25	M8	15	23	12
K0159.23008*	E	30	M8	16	28	12
K0159.23208	E	32	M8	18	29	12
K0159.23210	E	32	M10	18	29	15
K0159.23508	E	36	M8	17	33	14
K0159.23510	E	36	M10	17	33	14
K0159.24008	E	40	M8	20	37,5	14
K0159.24010*	E	40	M10	20	37,5	15
K0159.24012	E	40	M12	20	37,5	18
K0159.24510	E	45	M10	20	43	22
K0159.24512	E	45	M12	20	43	21
K0159.25010	E	50	M10	22	48	15
K0159.25012*	E	50	M12	28	48	18

KIPP Ball knobs smooth DIN 319 enhanced, Form L, with clamping sleeve

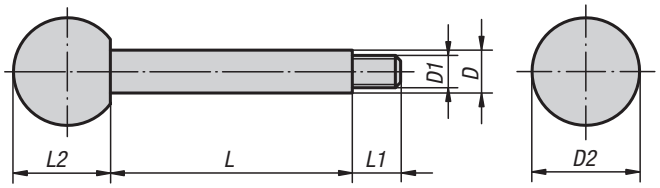
Order No.	Form	D1	D5	D6	H	T5
K0159.42005	L	20	5	12	18	13
K0159.42506	L	25	6	15	23	16
K0159.42508	L	25	8	15	23	15
K0159.43208	L	32	8	18	29	15
K0159.43210	L	32	10	18	29	20
K0159.44010	L	40	10	20	37,5	20
K0159.44012	L	40	12	20	37,5	23
K0159.45012	L	50	12	28	48	20

KIPP Ball knobs smooth DIN 319 enhanced, Form M, with tapered bore

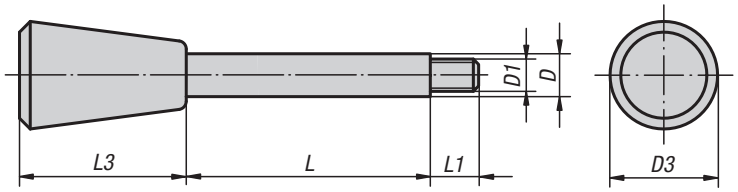
Order No.	Form	D1	D3	D6	H	T6
K0159.31604	M	16	4	8	15	9
K0159.32005	M	20	5	12	18	12
K0159.32506	M	25	6	15	23	15
K0159.32508	M	25	8	15	23	15
K0159.33208	M	32	8	18	29	15
K0159.33210	M	32	10	18	29	15
K0159.34010	M	40	10	20	37,5	20
K0159.34012	M	40	12	20	37,5	20
K0159.35012	M	50	12	28	48	22

Handles

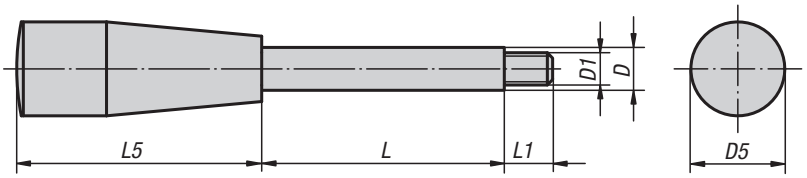
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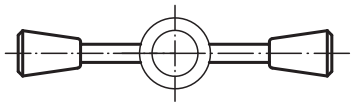




Material:
Knobs Duroplast PF 31.
Rod steel 1.0718 or stainless steel 1.4305.

Version:
Duroplast black, high-gloss polished.
Steel black oxidised or bright stainless steel.

Sample order:
K0179.208X35 (include length L)



KIPP Steel rods

Order No.	Form	D	D1	D2	D3	D5	L	L1	L2	L3	L5
K0179.208X	A	8	M6	20	-	-	35/50/65	9	18	-	-
K0179.210X	A	10	M8	25	-	-	50/65/80/100	13	22,5	-	-
K0179.212X	A	12	M10	32	-	-	65/80/100/125	15	29	-	-
K0179.214X	A	14	M12	36	-	-	80/100/125/160	16	33	-	-
K0179.408X	C	8	M6	-	20	-	35/50/65	9	-	31	-
K0179.410X	C	10	M8	-	25	-	50/65/80/100	13	-	38	-
K0179.412X	C	12	M10	-	30	-	65/80/100/125	15	-	46	-
K0179.414X	C	14	M12	-	35	-	80/100/125/160	16	-	53	-
K0179.608X	E	8	M6	-	-	17	35/50/65	9	-	-	45
K0179.610X	E	10	M8	-	-	23	50/65/80/100	13	-	-	61
K0179.612X	E	12	M10	-	-	29	65/80/100/125	15	-	-	71
K0179.614X	E	14	M12	-	-	29	80/100/125/160	16	-	-	71

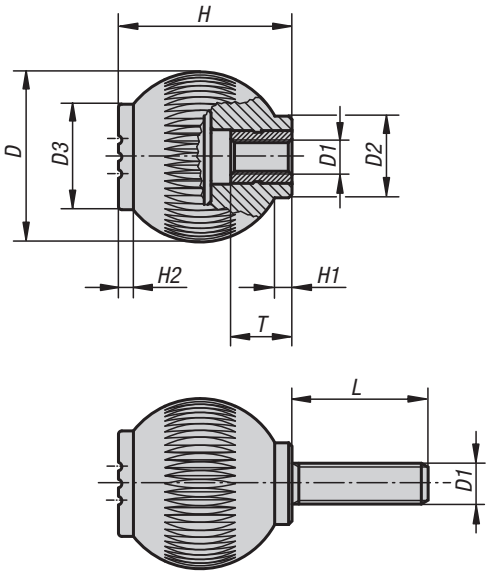
KIPP Stainless steel rods

Order No.	Form	D	D1	D2	D3	D5	L	L1	L2	L3	L5
K0179.1208X	A	8	M6	20	-	-	35/50/65	9	18	-	-
K0179.1210X	A	10	M8	25	-	-	50/65/80/100	13	22,5	-	-
K0179.1212X	A	12	M10	32	-	-	65/80/100/125	15	29	-	-
K0179.1214X	A	14	M12	36	-	-	80/100/125/160	16	33	-	-
K0179.1408X	C	8	M6	-	20	-	35/50/65	9	-	31	-
K0179.1410X	C	10	M8	-	25	-	50/65/80/100	13	-	38	-
K0179.1412X	C	12	M10	-	30	-	65/80/100/125	15	-	46	-
K0179.1414X	C	14	M12	-	35	-	80/100/125/160	16	-	53	-
K0179.1608X	E	8	M6	-	-	17	35/50/65	9	-	-	45
K0179.1610X	E	10	M8	-	-	23	50/65/80/100	13	-	-	61
K0179.1612X	E	12	M10	-	-	29	65/80/100/125	15	-	-	71
K0179.1614X	E	14	M12	-	-	29	80/100/125/160	16	-	-	71

Notes

Spherical knobs





An ergonomically perfect product for three dimensional gripping:
The spherical surface also has vertical ribbing.
Thanks to CAD designing, the requirements of different fields can be met.

Material:
Thermoplastic, black grey.
Bush and screw steel 5.8 or stainless steel 1.4305.

Version:
Blue passivated steel or bright stainless steel.

Sample order:
K0253.1066X15 (cap colour traffic red; include length L.)

Note:
Δ Add the desired cap colour here. No colour code is required for black grey caps.

black grey	light grey Δ = 5	traffic red Δ = 6	bright yellow Δ = 7
 RAL 7021	 RAL 7035	 RAL 3020	 RAL 1021

KIPP Spherical knobs with internal thread

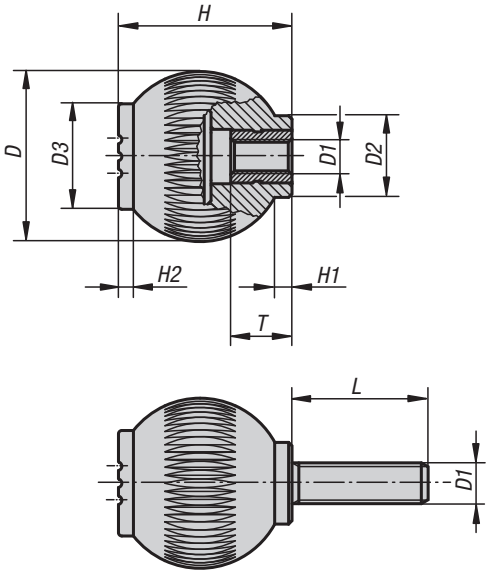
Order No. Steel	Order No. Stainless steel	Size	D	D1	D2	D3	H	H1	H2	T
K0253.106Δ	K0253.0106Δ	1	25	M6	12	17	25	3	2	10
K0253.208Δ	K0253.0208Δ	2	32	M8	15,5	19	33	3,5	2,6	14
K0253.310Δ	K0253.0310Δ	3	40	M10	19	23	41,5	4	3	14
K0253.410Δ	K0253.0410Δ	4	50	M10	24	31	51	5,5	4,5	14
K0253.412Δ	K0253.0412Δ	4	50	M12	24	31	51	5,5	4,5	18

KIPP Spherical knobs with external thread

Order No. Steel	Order No. Stainless steel	Size	D	D1	D2	D3	H	H1	H2	L
K0253.106ΔX	K0253.0106ΔX	1	25	M6	12	17	25	3	2	15/20/25/30
K0253.208ΔX	K0253.0208ΔX	2	32	M8	15,5	19	33	3,5	2,6	20/25/30/40
K0253.310ΔX	K0253.0310ΔX	3	40	M10	19	23	41,5	4	3	20/30/40
K0253.410ΔX	K0253.0410ΔX	4	50	M10	24	31	51	5,5	4,5	20/30/40
K0253.412ΔX	K0253.0412ΔX	4	50	M12	24	31	51	5,5	4,5	20/30/40

Spherical knobs biopolymer





Material:
Biopolymer, beech.
Bush or threaded pin steel 5.8

Version:
Bush and screw, galvanized and blue passivated.
Natural beech with beech fibres or coloured black grey.

Sample order:
K0253.10106143X15

Advantages:
This biopolymer is manufactured entirely from renewable raw materials (oil free).
Conservation of finite fossil resources.
The wood fibres originate 100% from local forests in Germany.
PEFC certified (guarantees that wood products originate from sustainably managed forests).

Features:
Excellent mechanical stability (certified with a minimum of 2x safety factor).
Biopolymer is suitable for recycling (comparable to thermoplastics).
Suitable for outdoor use (not biodegradable).
Excellent resistance to strong acids and lyes.
Short-term resistance to alcohol, fuel, mineral oil and grease.

KIPP Spherical knobs biopolymer with internal thread

Order No.	Main colour	Size	D	D1	D2	D3	H	H1	H2	T
K0253.10106143	natural beech	1	25	M6	12	17	25	3	2	10
K0253.10208143	natural beech	2	32	M8	15,5	19	33	3,5	2,6	14
K0253.1010690	black grey RAL 7021	1	25	M6	12	17	25	3	2	10
K0253.1020890	black grey RAL 7021	2	32	M8	15,5	19	33	3,5	2,6	14

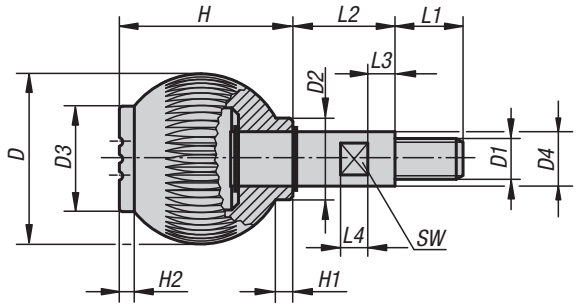
KIPP Spherical knobs biopolymer with external thread

Order No.	Main colour	Size	D	D1	D2	D3	H	H1	H2	L
K0253.10106143X15	natural beech	1	25	M6	12	17	25	3	2	15
K0253.10208143X20	natural beech	2	32	M8	15,5	19	33	3,5	2,6	20
K0253.1010690X15	black grey RAL 7021	1	25	M6	12	17	25	3	2	15
K0253.1020890X20	black grey RAL 7021	2	32	M8	15,5	19	33	3,5	2,6	20

Spherical knobs

revolving





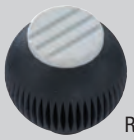
An ergonomically perfect product for three-dimensional gripping.
The spherical surface also has vertical ribbing.
Thanks to CAD designing, the requirements of different fields can be met.

Material:
Thermoplastic, black grey.
Axis steel 5.8 or stainless steel 1.4305.

Version:
Blue passivated steel or bright stainless steel.
Circlips galvanized, including stainless steel version.

Sample order:
K0254.1066 (cap colour traffic red.)

Note:
Δ Add the desired cap colour here.
No colour code is required for black grey caps.

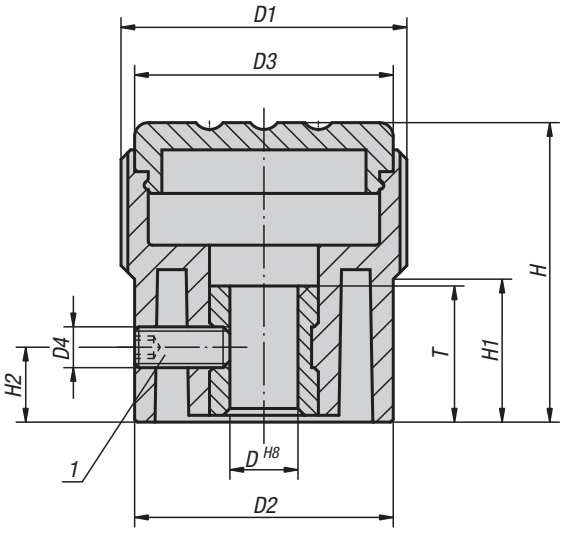
black grey	light grey Δ = 5	traffic red Δ = 6	bright yellow Δ = 7
 RAL 7021	 RAL 7035	 RAL 3020	 RAL 1021

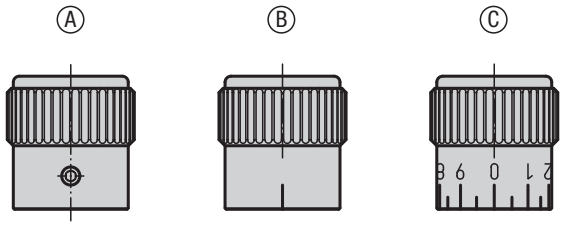
KIPP Spherical knobs revolving

Order No. steel	Order No. stainless steel	Size	D	D1	D2	D3	D4	H	H1	H2	L1	L2	L3	L4	SW
K0254.106Δ	**K0254.0106Δ**	1	25	M6	12	17	8	25	3	2	10	15	5	5	7
K0254.208Δ	**K0254.0208Δ**	2	32	M8	15,5	19	10	33	3,5	2,6	12	20	6	6	8
K0254.310Δ	**K0254.0310Δ**	3	40	M10	19	23	13	41,5	4	3	15	25	7	10	10
K0254.412Δ	**K0254.0412Δ**	4	50	M12	24	31	16	51	5,5	4,5	20	30	8	8	13

Knurled knobs







NOVO grip knurled knobs provide a precise and reproducible position setting, optimal reading of the perfectly situated graduations and are easily fastened permanently to the shaft with the integrated set screw.

Material:
Thermoplastic, black grey.
Bush steel.

Version:
Bush blue passivated

Sample order:
K0248.11055 (cap colour light grey)

Note:
Available without graduations, with one scale line or with 20 graduations and 10 digits.
Δ Add the desired cap colour here; no colour code is required for black grey caps.

On request:
Special graduations.

Drawing reference:
Form A: without graduations
Form B: with one scale line
Form C: with standard graduations

1) Set screw for locking (by Form C between numbers 5 and 6)

black grey	light grey Δ = 5	traffic red Δ = 6	bright yellow Δ = 7
 RAL 7021	 RAL 7035	 RAL 3020	 RAL 1021

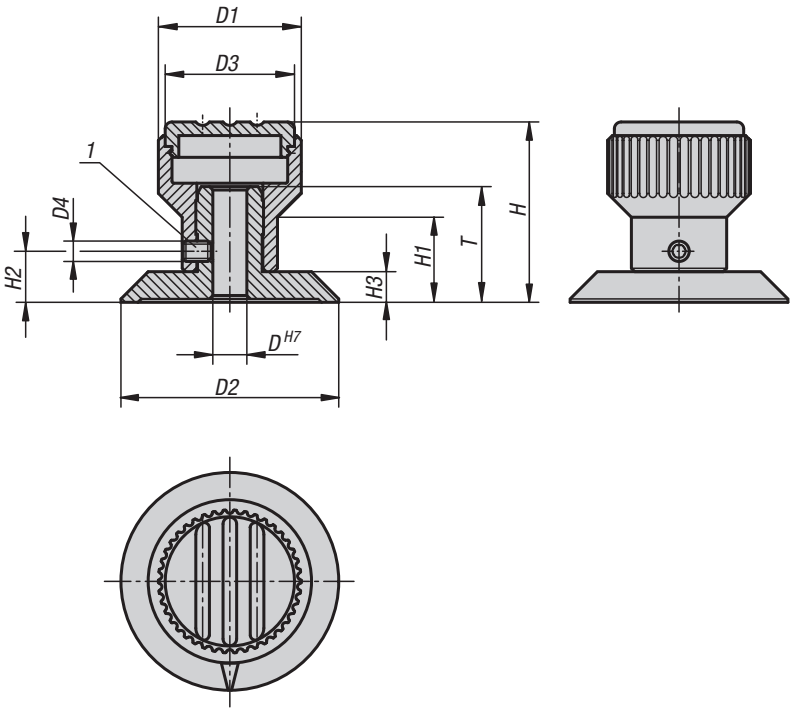
KIPP Knurled knobs

Order No.	Form	Size	D	D1	D2	D3	D4	H	H1	H2	T
K0248.1105Δ	A	1	5	21	19	19	M3	22	10,5	5	10
K0248.1206Δ	A	2	6	26	23	23	M3	26	12	6	10
K0248.1308Δ	A	3	8	34	31	31	M4	36	17,5	7	14
K0248.2105Δ	B	1	5	21	19	19	M3	22	10,5	5	10
K0248.2206Δ	B	2	6	26	23	23	M3	26	12	6	10
K0248.2308Δ	B	3	8	34	31	31	M4	36	17,5	7	14
K0248.3105Δ	C	1	5	21	19	19	M3	22	10,5	5	10
K0248.3206Δ	C	2	6	26	23	23	M3	26	12	6	10
K0248.3308Δ	C	3	8	34	31	31	M4	36	17,5	7	14

Knurled knobs

with arrow





This NOVO grip knurled knob allows different switching positions to be quickly and easily set. The engraved silver arrow clearly marks the presently set position.

Material:
Knurled knob thermoplastic.
Washer aluminium.

Version:
Knurled knob black grey.
Washer, black anodized.

Sample order:
K0249.1055 (cap colour light grey)

Note:
The arrow is engraved after anodizing. The set screw secures both the hub and the pressed-in washer. The H7 hole in the hub ensures a good tight fit on the shaft.

Δ Add the desired cap colour here. No colour code is required for black grey caps.

Drawing reference:
1) set screw

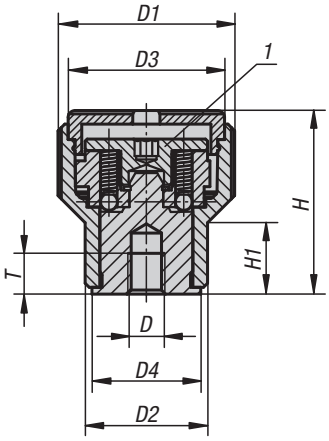
black grey	light grey Δ = 5	traffic red Δ = 6	bright yellow Δ = 7
RAL 7021	RAL 7035	RAL 3020	RAL 1021

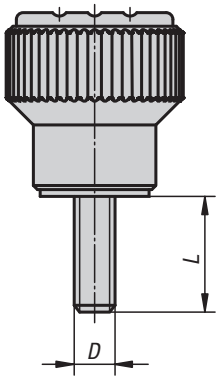
KIPP Knurled knobs with arrow

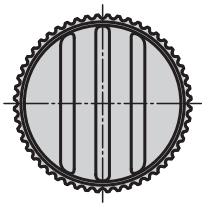
Order No.	Size	D	D1	D2	D3	D4	H	H1	H2	H3	T
K0249.105Δ	1	5	21	32	19	M3	26,5	12,5	7,5	4,5	17
K0249.206Δ	2	6	26	40	23	M4	31,5	15	9,5	5,5	20,5
K0249.308Δ	3	8	34	52	31	M4	43	20	12	7	22

Knurled torque knobs









Material:
Thermoplastic, black grey.
Bush and screw steel 5.8.

Version:
Bush black oxidised.
Screw blue passivated

Sample order:
K0277.2056X30
(cap colour traffic red; include length L)

Note:
The set screw sets the required torque. The knob de-clutches and turns freely when the desired torque is reached.

Δ Add the desired cap colour here. No colour code is required for black grey caps.

Drawing reference:
1) adjusting screw for setting the torque

black grey	light grey Δ = 5	traffic red Δ = 6	bright yellow Δ = 7
RAL 7021	RAL 7035	RAL 3020	RAL 1021

KIPP Knurled torque knobs with internal thread

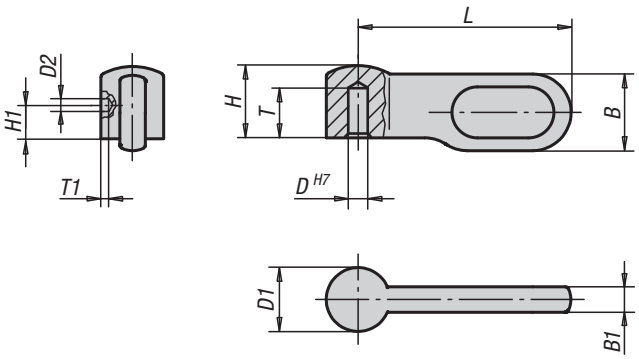
Order No.	Component material	Size	D	D1	D2	D3	D4	H	H1	T	Adjustable torque approx. Nm min. - max.
K0277.205Δ	Steel	2	M5	26	18	23	16	27	10,5	5	0,1 - 0,3
K0277.206Δ	Steel	2	M6	26	18	23	16	27	10,5	6	0,1 - 0,3
K0277.306Δ	Steel	3	M6	34	22	31	20	37,5	14,5	10	0,1 - 0,3
K0277.308Δ	Steel	3	M8	34	22	31	20	37,5	14,5	14	0,1 - 0,3

KIPP Knurled torque knobs with external thread

Order No.	Component material	Size	D	D1	D2	D3	D4	H	H1	L	Adjustable torque approx. Nm min. - max.
K0277.205ΔX	Steel	2	M5	26	18	23	16	27	10,5	30/50	0,1 - 0,3
K0277.206ΔX	Steel	2	M6	26	18	23	16	27	10,5	30/50	0,1 - 0,3
K0277.306ΔX	Steel	3	M6	34	22	31	20	37,5	14,5	40/60	0,1 - 0,3
K0277.308ΔX	Steel	3	M8	34	22	31	20	37,5	14,5	40/60	0,1 - 0,3

Lock grips





Material:
Stainless steel 1.4308 or steel.

Version:
Stainless steel bright.
Steel black oxidised.

Sample order:
K0178.1040

Note:
Lock grips can be used as required. The styled design with recessed grip gives fingers a good purchase and is well suited to modern requirements. High clamping forces can be easily attained. Use the pilot hole in the side to secure the grip by pinning or screw.

KIPP Lock grip

Order No.	Main material	Size	B	B1	D	D1	D2	H	H1	L	T	T1
K0178.1040	Stainless steel	1	9	3	4	7,5	1,5	8,5	3	25	5,5	0,5
K0178.2050	Stainless steel	2	10,8	3,6	5	9	2	10,2	4	30	6,5	1
K0178.3060	Stainless steel	3	14,4	4,8	6	12	2	13,6	5	40	8,7	1
K0178.4080	Stainless steel	4	18	6	8	15	3	17	6	50	10,2	1
K0178.1041	Steel	1	9	3	4	7,5	1,5	8,5	3	25	5,5	0,5
K0178.2051	Steel	2	10,8	3,6	5	9	2	10,2	4	30	6,5	1
K0178.3061	Steel	3	14,4	4,8	6	12	2	13,6	5	40	8,7	1
K0178.4081	Steel	4	18	6	8	15	3	17	6	50	10,2	1

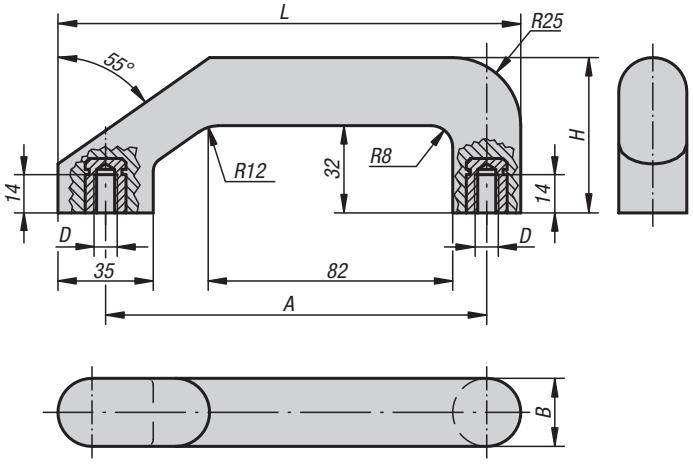
Notes

Pull handles, tubular handles, recessed handles



K0187

Pull handles





Material:
Duroplast PF 31, black.
Bushing brass or galvanized steel.

Version:
High-gloss polished.

Sample order:
K0187.101

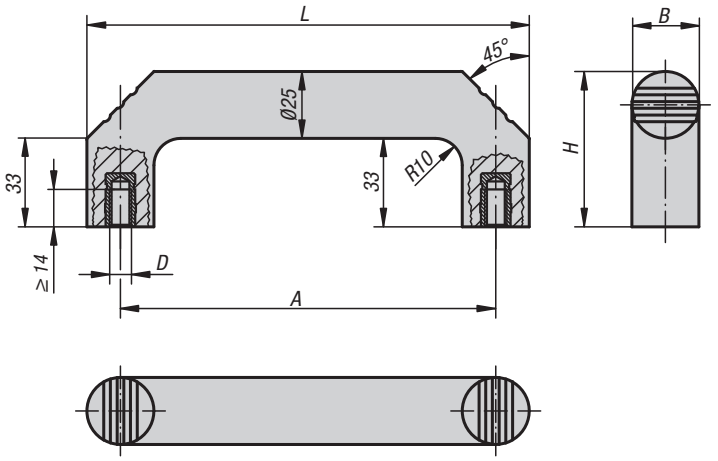
Assembly:
From the rear.

KIPP Pull handles

Order No.	Bushing	A	B	D	H	L	Load capacity N
K0187.101	brass	140	25	M8	57	170	300
K0187.201	steel	140	25	M8	57	170	300

K0188

Pull handles





Material:
Duroplast PF 31, black.
Bushing brass or galvanized steel.

Version:
High-gloss polished.

Sample order:
K0188.114008

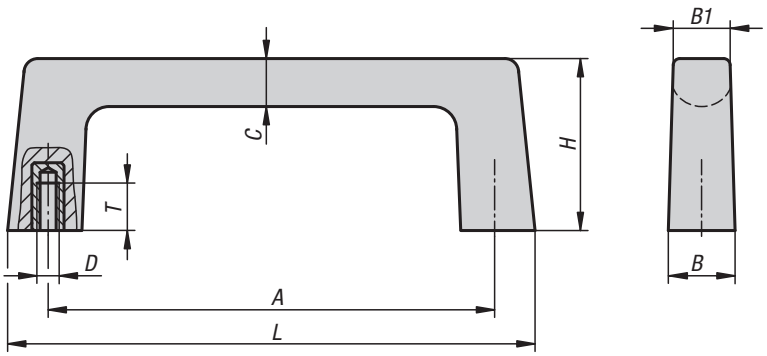
Assembly:
From the rear.

KIPP Pull handles

Order No.	Bushing	A	B	D	H	L	Load capacity N
K0188.114008	brass	140	25	M8	58	165	500
K0188.214008	steel	140	25	M8	58	165	500

Pull handles





Material:
Duroplast FS 31.
Threaded insert steel.

Version:
black.

Sample order:
K1074.11005

Note for ordering:
Fastening screws included.

Note:
Load rating max. 500 N.

Assembly:
From the rear.

KIPP Pull handles

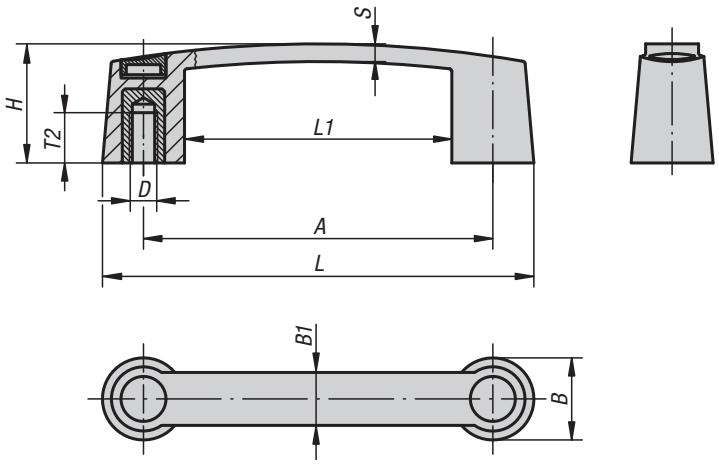
Order No.	Main material	A	B	B1	C	D	H	L	T	Load capacity N
K1074.11005	Duroplast	110	16	14	12	M5	42	130	10	500

Notes

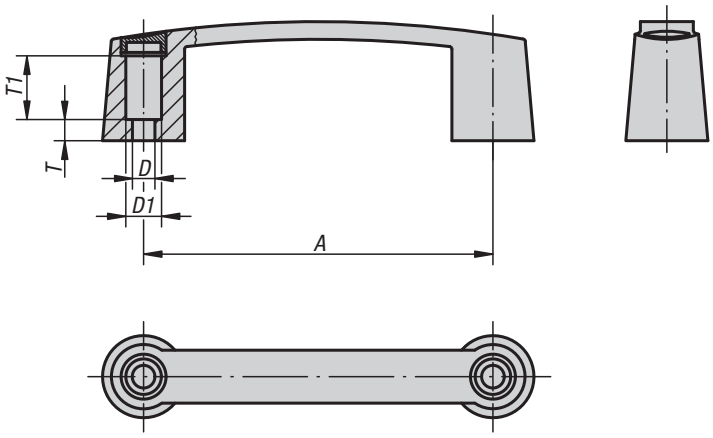
Pull handles



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Material:
Thermoplastic.
Bushing brass.

Version:
Handle and cap black.

Sample order:
K0189.109406

Assembly:
Form A from the rear.
Form B from the front.

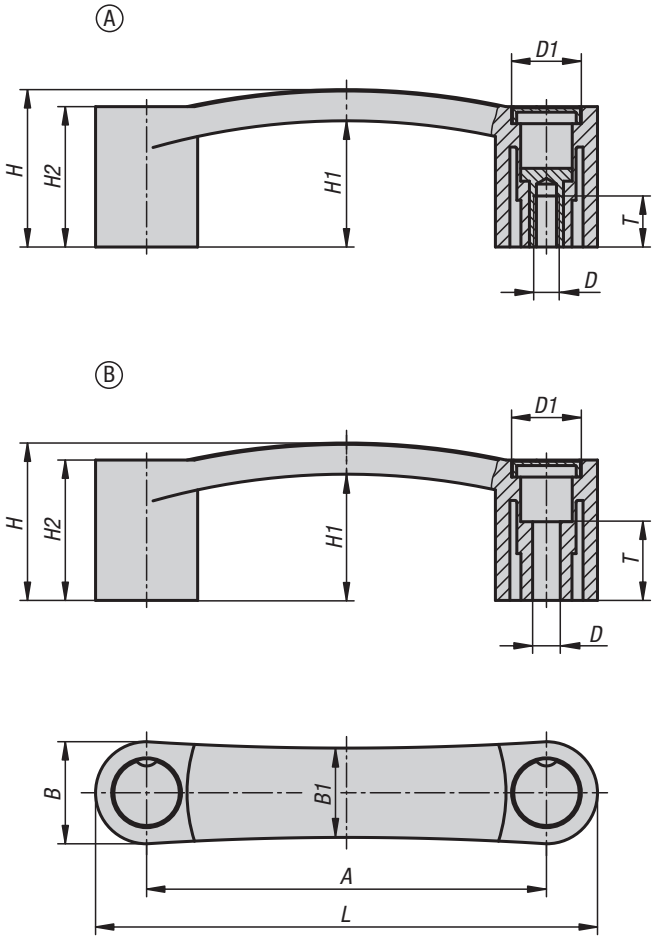
On request:
Other handle or cap colours.

KIPP Pull handles

Order No.	Form	A	B	B1	D	D1	H	L	L1	S	T	T1	T2	Load capacity N
K0189.109406	A	93,5	26	17	M6	-	35	119,5	67,5	5,8	-	-	15,5	320
K0189.111706	A	117	29	19	M6	-	40	145	89	6,4	-	-	15,5	320
K0189.111708	A	117	29	19	M8	-	40	145	89	6,4	-	-	16	870
K0189.113206	A	132	31	20	M6	-	45	163	101	6,7	-	-	15,5	320
K0189.113208	A	132	31	20	M8	-	45	163	101	6,7	-	-	16	870
K0189.117910	A	179	35	22	M10	-	50	213	145	7,1	-	-	22	1200
K0189.209406	B	93,5	26	17	6,8	12	35	119,5	67,5	5,8	4,5	19	-	500
K0189.211708	B	117	29	19	8,5	13,5	40	145	89	6,4	8	23	-	950
K0189.213208	B	132	31	20	8,5	13,5	45	163	101	6,7	8	22	-	950
K0189.217908	B	179	35	22	8,5	13,5	50	213	145	7,1	12	22	-	950

Pull handles





Material:
Fibreglass reinforced thermoplastic.
Tapped bush brass.

Version:
Black.
Cap grey.

Sample order:
K1092.109406

Assembly:
Form A from the rear.
Form B from the front.

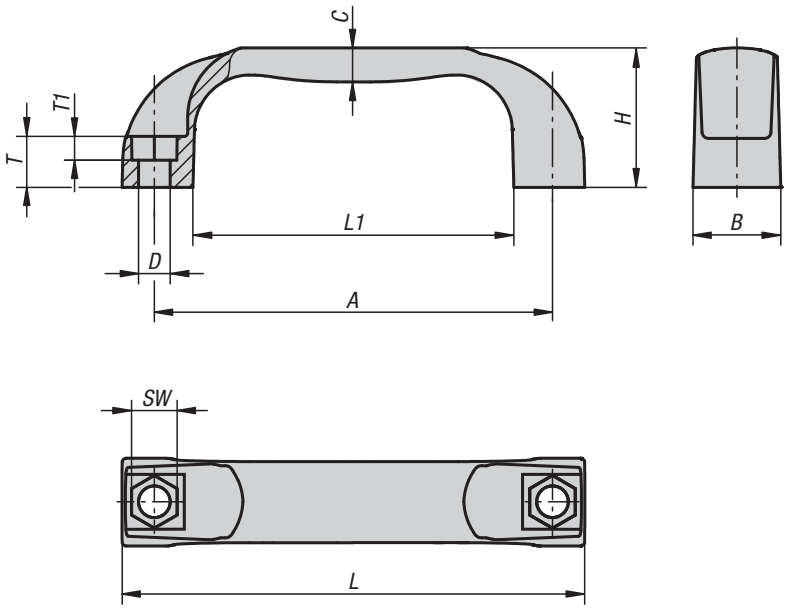
On request:
Other handle or cap colours.

KIPP Pull handles

Order No.	Version	Form	A	B	B1	D	D1	H	H1	H2	L	T	Load capacity N
K1092.109406	internal thread	A	94	24	21	M6	16	37	30	33	118	12	2000
K1092.111706	internal thread	A	117	28	24	M6	18	40,5	31,5	34	145	12	3400
K1092.111708	internal thread	A	117	28	24	M8	18	40,5	31,5	34	145	12	3400
K1092.112006	internal thread	A	120	28	24	M6	18	40,5	31,5	34	148	12	3500
K1092.112008	internal thread	A	120	28	24	M8	18	40,5	31,5	34	148	12	3500
K1092.113208	internal thread	A	132	28	24	M8	18	43	34	36,5	160	12	3500
K1092.209406	with through hole	B	94	24	21	6,5	16	37	30	33	118	14	2500
K1092.211706	with through hole	B	117	28	24	6,5	18	40,5	31,5	34	145	15	3700
K1092.211708	with through hole	B	117	28	24	8,5	18	40,5	31,5	34	145	15	3700
K1092.212006	with through hole	B	120	28	24	6,5	18	40,5	31,5	34	148	15	2900
K1092.212008	with through hole	B	120	28	24	8,5	18	40,5	31,5	34	148	15	2900
K1092.213208	with through hole	B	132	28	24	8,5	18	43	34	36,5	160	15	3200

Pull handles





Material:
Thermoplast PA (polyamide), glass-bead reinforced or PP (polypropylene), fibreglass reinforced.

Version:
black grey

Sample order:
K0190.113208

Note:
The fastening hole is designed to accept the head of a socket or hexagon head bolt or a hexagon nut.

Assembly:
From the front or rear.

On request:
Other handle colours.

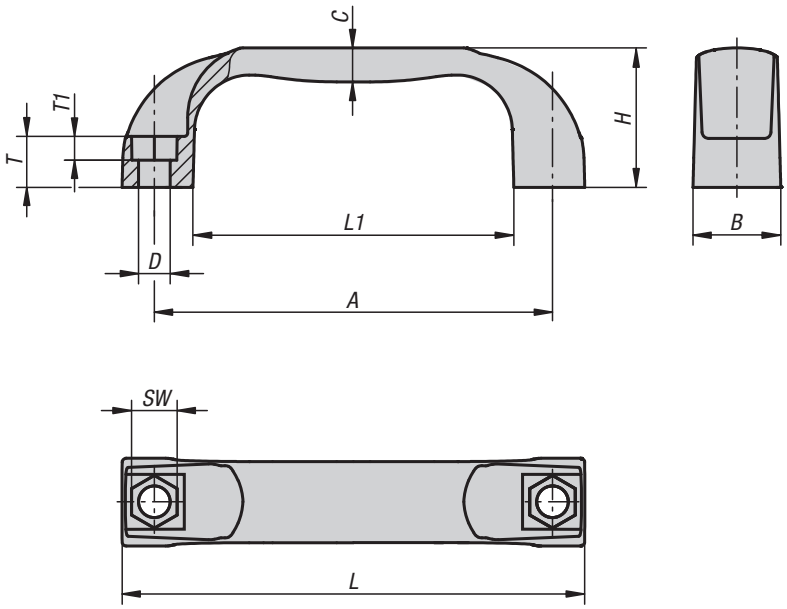
KIPP Pull handles

Order No.	Main material	A	B	C	D	H	L	L1	SW	T	T1	Load capacity N
K0190.109406	polyamide	94	21	8	6,6	36	109	76	10	13	6	1000
K0190.111708	polyamide	117	26	10	9	41	136	94	13	15	8	1500
K0190.113208	polyamide	132	27	11	9	44	154	112	13	16	8	1500
K0190.117908	polyamide	179	28	11	9	50	197	156	13	17	8	1500
K0190.209406	polypropylene	94	21	8	6,6	36	109	76	10	13	6	500
K0190.211708	polypropylene	117	26	10	9	41	136	94	13	15	8	800
K0190.213208	polypropylene	132	27	11	9	44	154	112	13	16	8	800
K0190.217908	polypropylene	179	28	11	9	50	197	156	13	17	8	800

Pull handles,

high temperature resistant





Material:
Thermoplastic PPA (resistant to high temperatures), fibreglass reinforced.

Version:
black.

Sample order:
K0190.311708

Note:
The fastening hole is designed to accept the head of a socket or hexagon head bolt or a hexagon nut.

Temperature range:
Continuous operating temperature acc. to IEC 216 max. 150°C - 160°C.
Temporary operating temperature max. 250°C.

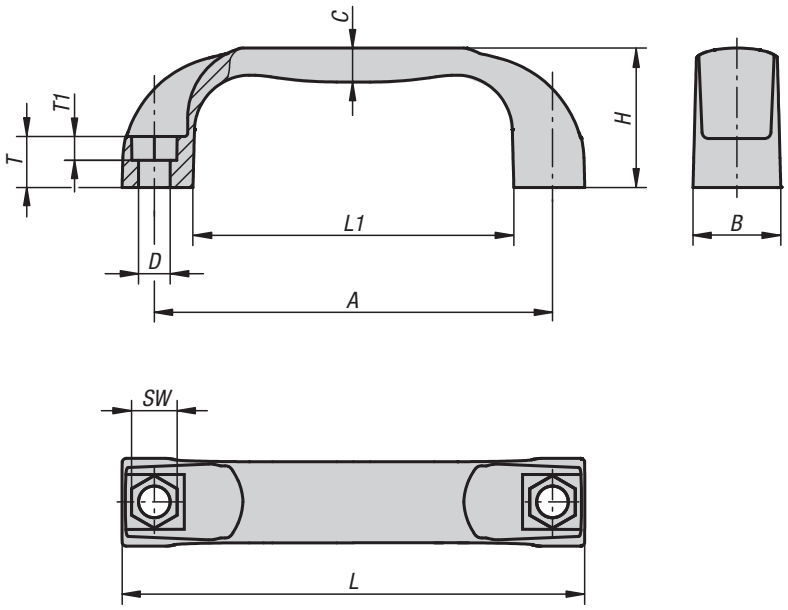
Assembly:
From the front or rear.

KIPP Pull handles, high temperature resistant

Order No.	A	B	C	D	H	L	L1	SW	T	T1	Load capacity N
K0190.311708	117	26	10	9	41	136	94	13	15	8	1500
K0190.313208	132	27	11	9	44	154	112	13	16	8	1500

Pull handles antibacterial





Material:
Thermoplastic PA (polyamide) reinforced.

Version:
slate grey.

Sample order:
K0190.1211708144

Note:
The fastening hole is designed to accept the head of a socket or hexagon head bolt or a hexagon nut.

Application:
The antibacterial KIPP MEDI grip products are highly effective against a variety of hazardous microorganisms, such as bacteria, fungi, viruses and even multi-resistant bacteria (e.g. MRSA).
The plastic used incorporates micro-silver particles with an antimicrobial effect to ensure effective results throughout the entire product life cycle.

Function:
Silver ions are effective in preventing harmful microorganisms from forming on the product surface, promoting a constant reduction of the existing germs on the MEDI grip products (as tested and confirmed by an accredited testing laboratory).
During cleaning cycles the risk of infection while touching these products is significantly lower.

Assembly:
From the front or rear.

Advantages:
Resistant to humidity and cleaning products (during disinfection) with no toxic side effects.

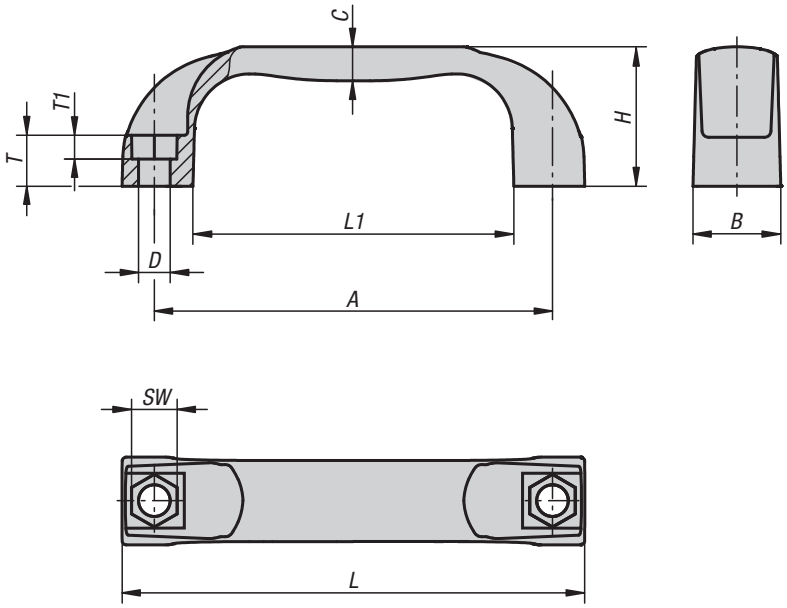
Applications:
For installation on machines, equipment, plants and furnishings in areas with increased hygienic requirements (including hospitals, doctors' surgeries, rehabilitation centres and food production facilities), as well as for use in public areas or regularly frequented institutions (i.e. nursing homes or daycare centres).

KIPP Pull handles antibacterial

Order No.	A	B	C	D	H	L	L1	SW	T	T1	Load capacity N
K0190.1211708144	117	26	10	9	41	136	94	13	15	8	1000

Pull handles antistatic





Material:
Thermoplastic PA (polyamide) reinforced.

Version:
graphite black.

Sample order:
K0190.111170824

Note:
The fastening hole is designed to accept the head of a socket or hexagon head bolt or a hexagon nut.

Application:
Sensitive electrical or electronic equipment, components and devices (ESD sensitive elements) may be damaged or destroyed by electrostatic discharges (ESD) in the immediate vicinity.
Electrostatic discharges can come from people or through handling ESD sensitive components (e.g. during production, assembly, transport, storage etc).
Electrically conductive products which conform to DIN EN 61340-5-1 are essential within electronic environments to prevent an electrostatic discharge.
These products can be used for ESD applications or in ESD protection areas (EPA) in accordance with DIN EN 61340-5-1.
The yellow ESD logo is printed on the side of the product to clearly identify it.

Assembly:
From the front or rear.

Safety:
These ESD products can also be used for devices, components and protection systems in areas with high risk of explosion.
Use of these ESD products prevents the occurrence of electrostatic spark discharges, eliminating the potential ignition of gases and dusts which could lead to explosions in enclosed spaces.
Manufacturers and operators must use and conform to ATEX directives for the protection of persons working in areas with high risk of explosion.
These ESD products are certified by TÜV-Süd in relation to their electrical discharge capability.

Target groups:
Device manufacturers required to conform to ATEX product directive 2014/34/EU.
Operators required to conform to ATEX worker protection directive 1999/92/EC.

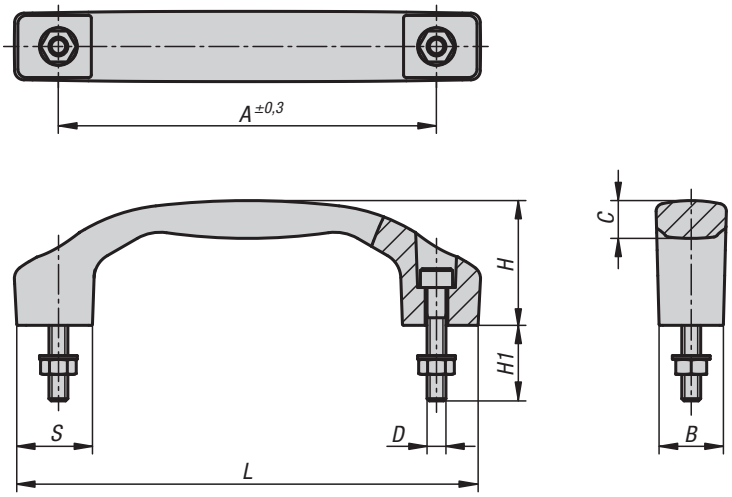
KIPP Pull handles antistatic

Order No.	Main colour	A	B	C	D	H	L	L1	SW	T	T1	Load capacity N
K0190.111170824	graphite black RAL 9011	117	26	10	9	41	136	94	13	15	8	1000

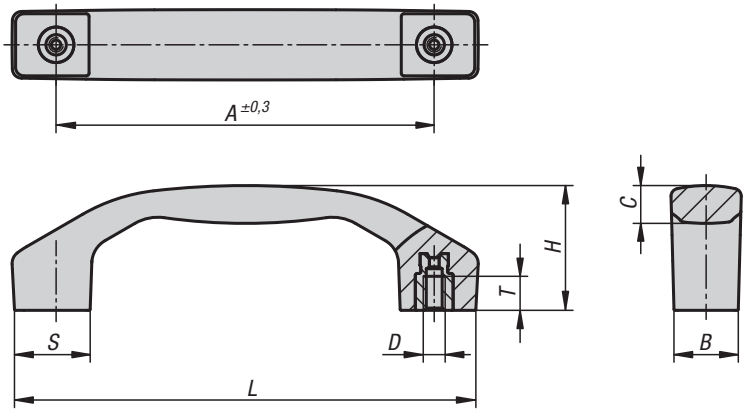
Pull handles



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Material:
Thermoplastic PA (polyamide), glass-bead reinforced.
Bush, screw, washer and nut steel or stainless steel.

Version:
black grey

Sample order:
K1060.1100051

Note:
This pull handle is characterised by its large size and pleasant haptics.

Form A is supplied with fastening screws, washers and nuts.

Assembly:
Form A from the front.
Form B from the rear.

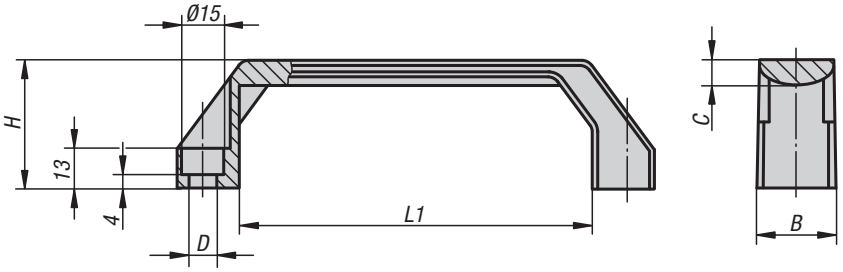
KIPP Pull handles

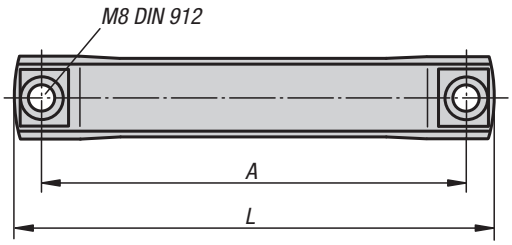
Order No.	Form	Component material	A	B	C	D	H	H1	L	S	T	Load capacity N
K1060.1100051	A	steel	100	17	9,5	M5	33	20	122	20	-	1000
K1060.1120061	A	steel	120	21	11,4	M6	39	25	146	24	-	1000
K1060.1140081	A	steel	140	24	14,2	M8	45	30	170	28	-	1000
K1060.1100052	A	stainless steel	100	17	9,5	M5	33	20	122	20	-	1000
K1060.1120062	A	stainless steel	120	21	11,4	M6	39	25	146	24	-	1000
K1060.1140082	A	stainless steel	140	24	14,2	M8	45	30	170	28	-	1000
K1060.2100051	B	steel	100	17	9,5	M5	33	-	122	20	9	1000
K1060.2120061	B	steel	120	21	11,4	M6	39	-	146	24	12	1000
K1060.2140081	B	steel	140	24	14,2	M8	45	-	170	28	12	1000
K1060.2100052	B	stainless steel	100	17	9,5	M5	33	-	122	20	9	1000
K1060.2120062	B	stainless steel	120	21	11,4	M6	39	-	146	24	12	1000
K1060.2140082	B	stainless steel	140	24	14,2	M8	45	-	170	28	12	1000

Pull handles

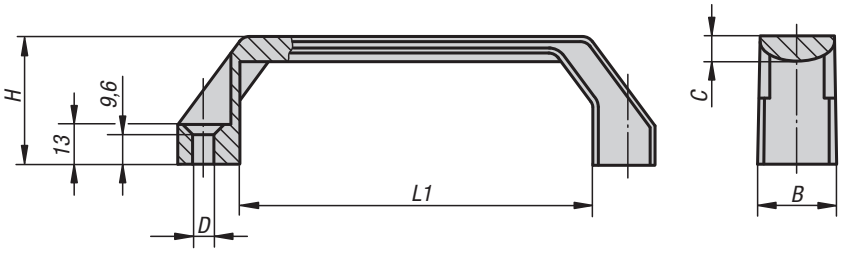


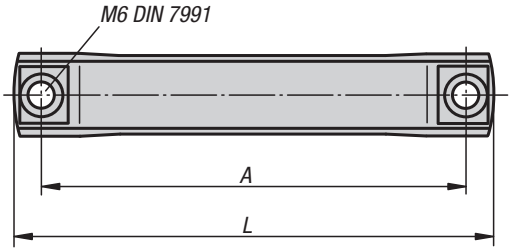
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Material:
Glass bead reinforced thermoplastic

Version:
Matt black or orange

Sample order:
K0191.1120081

Note:
Dimension “A” applies after mounting. Before mounting it can be up to 2 mm smaller due to the release of the bending stress.

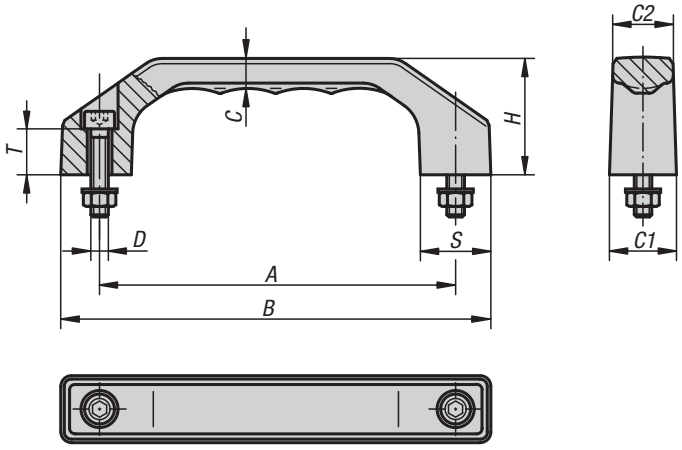
Assembly:
From the front.

KIPP Pull handles

Order No. Black grey RAL 7021	Order No. Orange	Form	A	B	C	D	H	L	L1	Load capacity N
K0191.1120081	K0191.1120082	A	120	26	8	9	42	138	96	1000
K0191.1140081	K0191.1140082	A	140	26	8	9	42	158	116	1000
K0191.1160081	K0191.1160082	A	160	28	9	9	45	178	136	1000
K0191.2120061	K0191.2120062	B	120	26	8	6,6	42	138	96	1000
K0191.2140061	K0191.2140062	B	140	26	8	6,6	42	158	116	1000
K0191.2160061	K0191.2160062	B	160	28	9	6,6	45	178	136	1000

Pull handles





Material:
Glass bead reinforced thermoplastic

Version:
Matt black with fine texture.

Sample order:
K0200.140082

Note:
These handles are extremely flex-resistant and are very user friendly. Fastening screws, nuts and washers are supplied. Stainless steel fasteners are supplied for wet areas.

Assembly:
From the front.

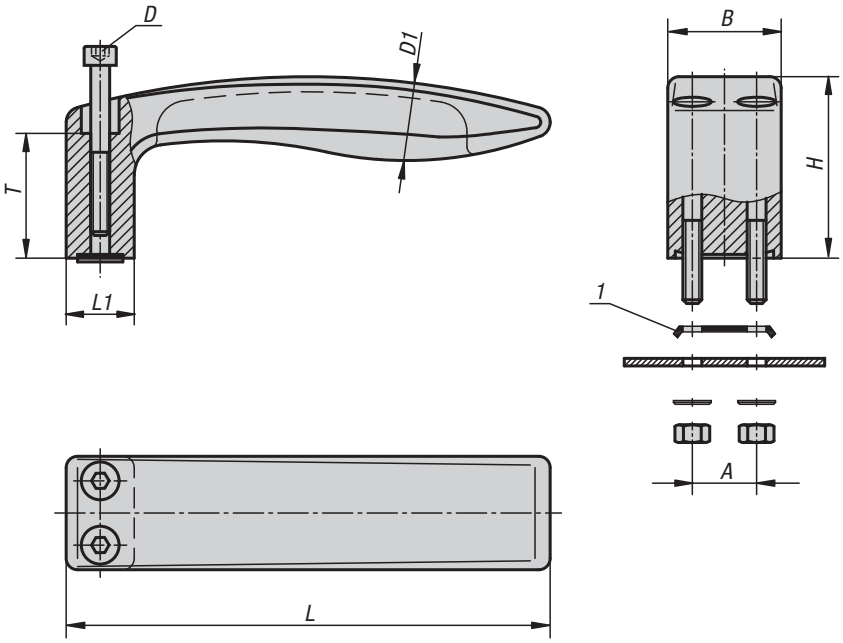
KIPP Pull handles

Order No. -	Order No. wet area	A	B	C	C1	C2	D	H	S	T	Load capacity N
K0200.100051	**K0200.100052**	100	122	8,5	19	17	M5x22	35	20	13	1000
K0200.120061	**K0200.120062**	120	146	10,5	23	20,5	M6X25	39	24	15	1000
K0200.140081	**K0200.140082**	140	170	12	27	24	M8x30	45	28	16	1000
K0200.160081	**K0200.160082**	160	194	13,5	31	27,5	M8x35	52	32	20	1000
K0200.180081	**K0200.180082**	180	218	15,5	35	31	M10x40	58	36	20	1000

Pull handles

open-ended screw on





Material:
Glass-bead reinforced thermoplastic.
Fastening material 1.4301.

Version:
Matt black with fine texture.

Sample order:
K0237.12805

Note:
These open-ended handles can be mounted right or left. They are form stable and have a high load rating. Fastening bolts, nuts and washers are supplied as is a locking plate to prevent twisting.

Assembly:
From the front.

Drawing reference:
1) locking plate

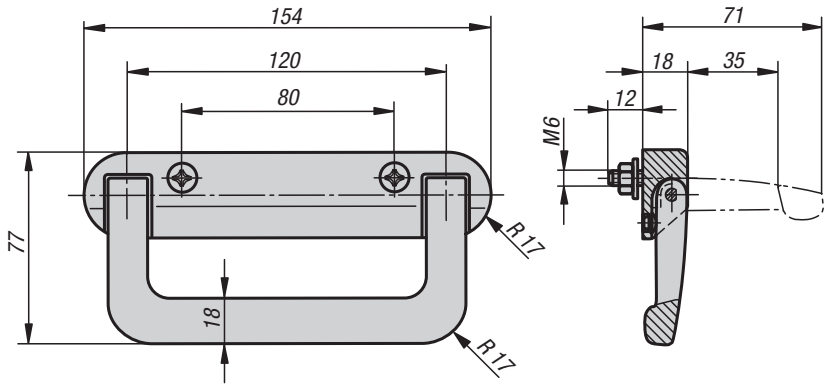
KIPP Pull handles open-ended screw on

Order No.	A	B	D	D1	H	L	L1	T	Load capacity N
K0237.12805	17	30	M5x45	20	48	128	18	33	800
K0237.15606	20	36	M6x55	24	58	156	22	40	1000

Pull handles

fold-down





Material:
Frame and grip glass-bead reinforced thermoplastic.
Linkpins and return springs stainless steel.

Version:
matt black.

Sample order:
K0241.080181

Note:
The fold-down handle automatically returns to rest.
Can be screwed onto a housing panel.
Black galvanized DIN 965 countersunk M6x30 screws with cross slit, washers and nuts are supplied.

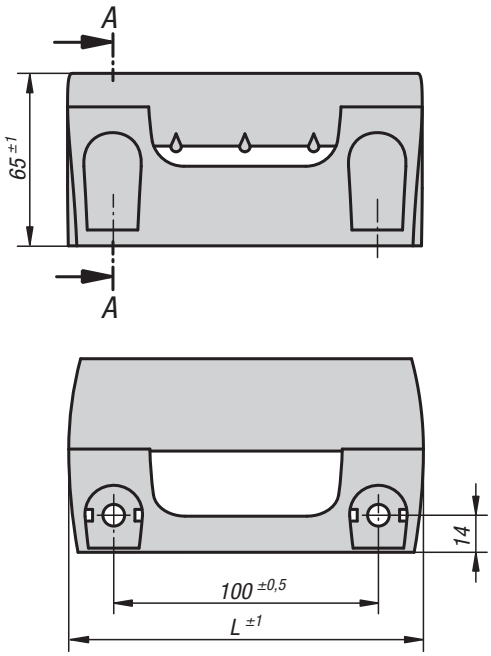
KIPP Pull handles fold-down

Order No.	Load capacity N
K0241.080181	300

Pull handles angled



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Material:
Glass-bead reinforced thermoplastic PA

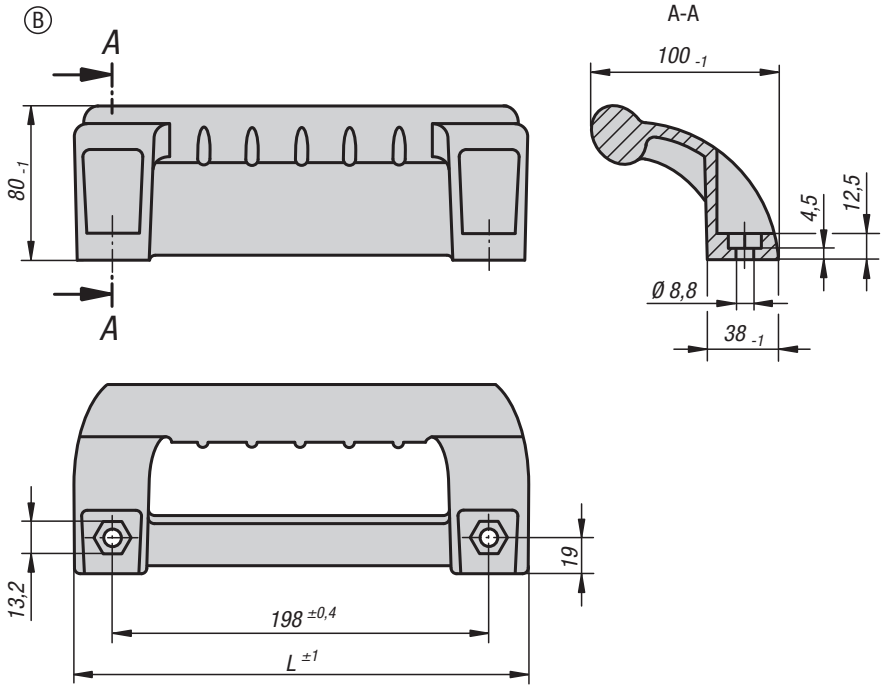
Version:
black.

Sample order:
K0244.100081
K0244.1 (2 per pack)

Note:
Ergonomic design pull handles with finger shield. For mounting on doors, hatches and aluminium profiles. Ideal for double-leaf doors. Fastening with hexagon or socket head M8 bolts.

Cover caps are not supplied.

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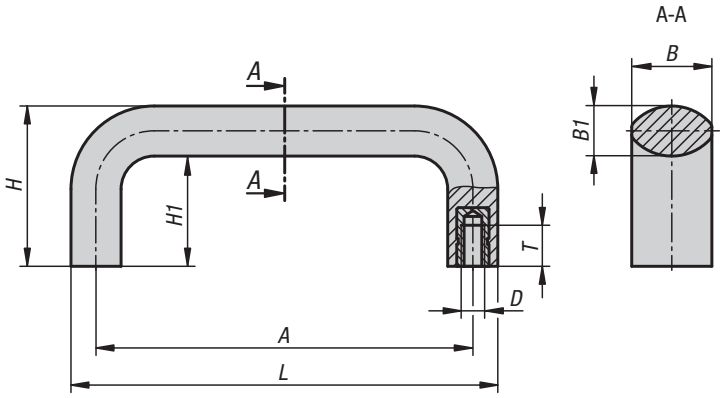


KIPP Pull handles angled

Order No.	Form	L	Load capacity N	Order No. cover caps
K0244.100081	A	134	1000	K0244.1
K0244.198081	B	236	1000	K0244.3

Pull handles





Material:
Fibreglass reinforced thermoplastic.
Tapped bush brass.

Version:
black.

Sample order:
K1087.08605

Assembly:
From the rear.

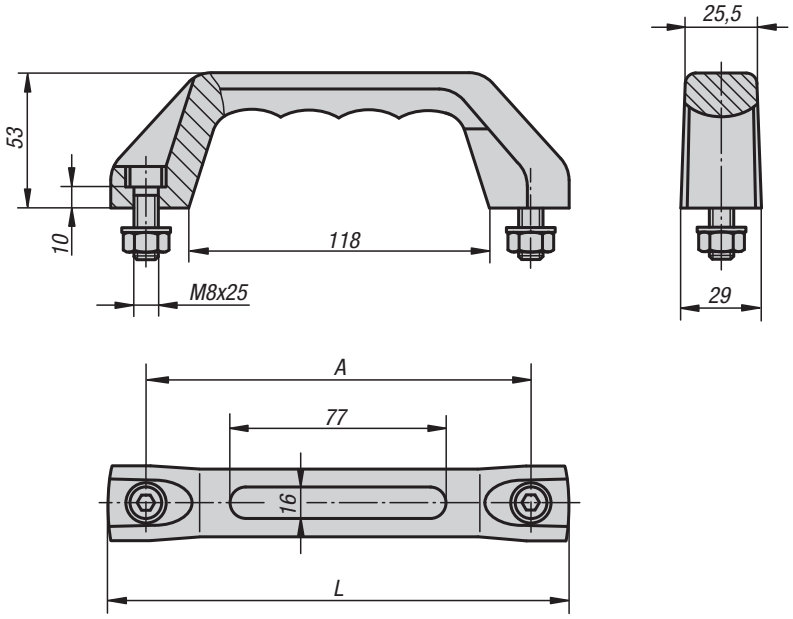
KIPP Pull handles

Order No.	A	B	B1	D	H	H1	L	T	Load capacity N
K1087.08605	86	20	12,5	M5	40	28	98,5	10	1000
K1087.08606	86	20	12,5	M6	40	28	98,5	9	1000
K1087.09405	94	20	12,5	M5	40	28	106,5	10	1000
K1087.09406	94	20	12,5	M6	40	28	106,5	9	1000
K1087.11705	117	25	16	M5	50	34	134	10	1000
K1087.11706	117	25	16	M6	50	34	134	9	1000
K1087.11708	117	25	16	M8	50	34	134	14	1000
K1087.12005	120	25	16	M5	50	34	134	10	1000
K1087.12006	120	25	16	M6	50	34	134	9	1000
K1087.12008	120	25	16	M8	50	34	134	14	1000
K1087.13205	132	25	16	M5	50	34	148	10	1000
K1087.13206	132	25	16	M6	50	34	148	9	1000
K1087.13208	132	25	16	M8	50	34	148	14	1000
K1087.15006	150	29	18	M6	58	40	168	15	1000
K1087.15008	150	29	18	M8	58	40	168	14	1000
K1087.15010	150	29	18	M10	58	40	168	14	1000
K1087.17908	179	29	18	M8	58	40	197	14	1000
K1087.17910	179	29	18	M10	58	40	197	14	1000

Pull handles

with soft inner face





Material:
Hard components glass-bead reinforced thermoplastic.
Soft components SEBS

Version:
Hard component matt black, soft component basalt grey.

Sample order:
K0171.515008

Note:
Heavy-duty polyamide handle. Excellent carrying and gripping comfort thanks to its soft inner surface.
Black galvanized cylindrical screws, nuts and washers are supplied.
For wet areas, the fastening material is supplied in stainless steel (1.4301).

Assembly:
From the front.

On request:
With individual caption, embossed or raised on the soft material. Hard and soft components are available in all RAL colours.

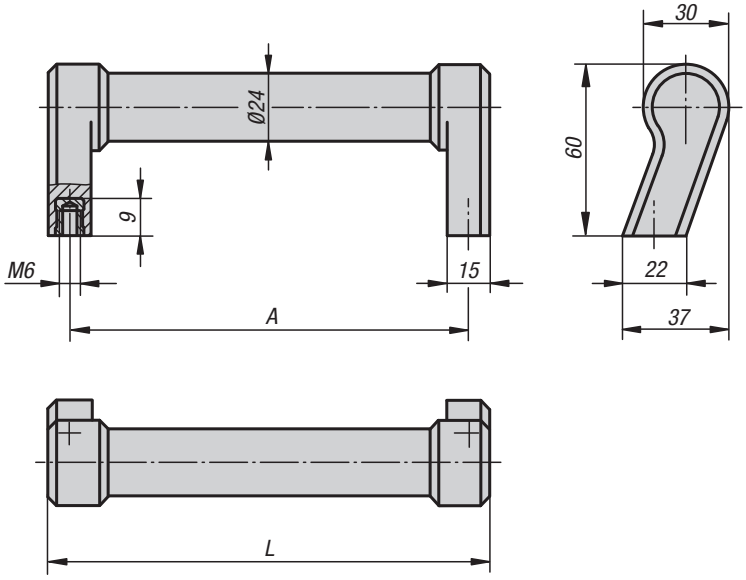
KIPP Pull handles with soft inner face

Order No.	Version	A	L	Load capacity N
K0171.515008	-	150	178	500
K0171.615008	wet area	150	178	500

Pull handles

oblique





Material:
Grip glass-bead reinforced thermoplastic.
Bushing brass.

Version:
Matt black or light grey

Sample order:
K0197.140061

Note:
Oblique, robust polyamide handle. Tube and legs form one unit. The oblique contact faces allow mounting under cramped conditions e.g. in corners.

Assembly:
From the rear.

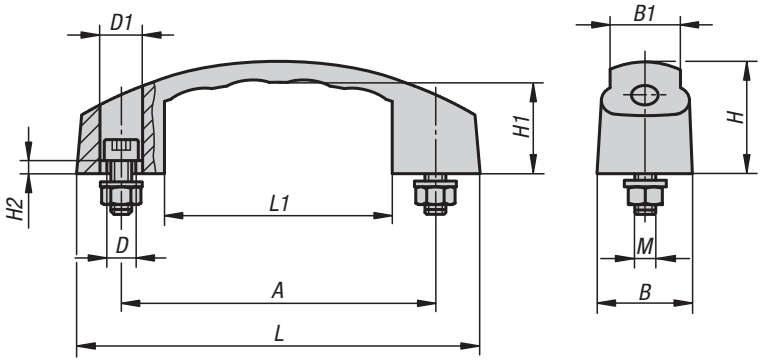
KIPP Pull handles, oblique

Order No.	Main colour	A	L	Load capacity N
K0197.140061	black grey RAL 7021	140	155	1000
K0197.140062	light grey RAL 7035	140	155	1000

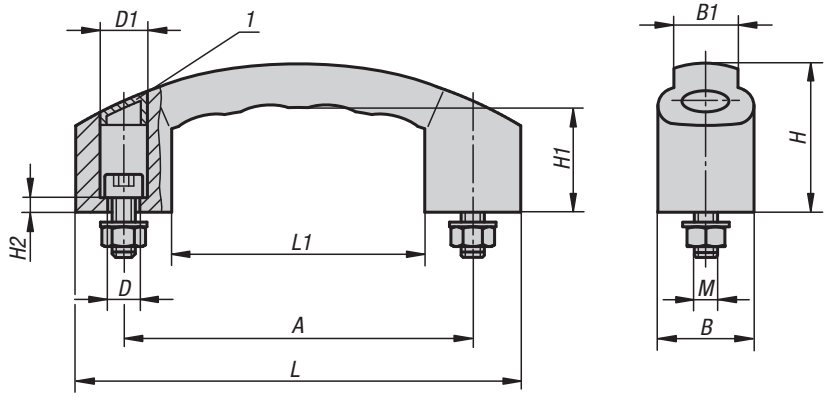
Pull handles



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Material:
Glass-bead reinforced thermoplastic.

Version:
matt black.

Sample order:
K0192.110006

Note:
Ergonomic and functional pull handles with temperature resistance of -50 °C to +130 °C.

Supplied with DIN 912 socket head screws, DIN 934 nuts and DIN 125 galvanized washers as well as caps for Form B
Form A are supplied without caps.

Assembly:
From the front.

Drawing reference:
Form A: without cover cap
Form B: with cover cap

1) cover cap

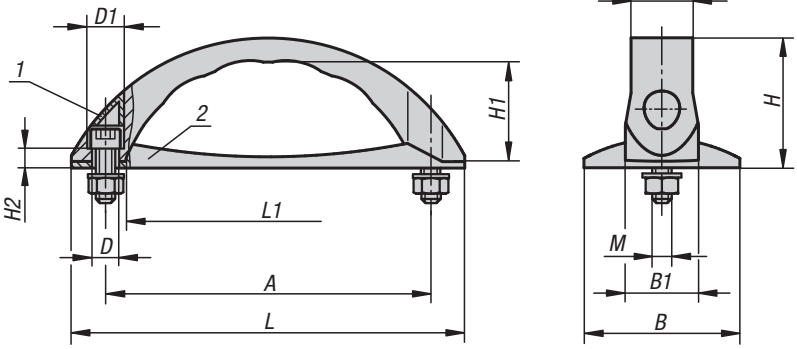
KIPP Pull handles

Order No.	Form	Version	A	B	B1	D	D1	H	H1	H2	L	L1	M	Load capacity N
K0192.110006	A	without cover cap	100	27	22	7	11	38	29	5	130	79	M6x25	600
K0192.112006	A	without cover cap	120	29	23	7	11	38	29	8	150	91	M6x25	600
K0192.212008	B	with cover cap	120	33	22	9	14	51	36	5	153	87	M8x30	1000
K0192.214008	B	with cover cap	140	38	26	9,5	15	59	42	6	178	101	M8x30	1000

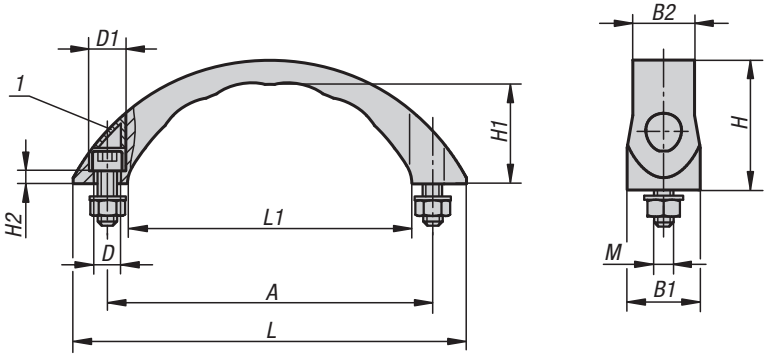
Pull handles arch



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Material:
Glass-bead reinforced thermoplastic.

Version:
matt black.

Sample order:
K0193.110006

Note:
Ergonomic and functional pull handles with temperature resistance of -50 °C to +130 °C.

Supplied with DIN 912 galvanised socket head screws, DIN 934 nuts, DIN 125 galvanized washers and caps. The versions K0193.110006 and K0193.210006 are supplied without caps.

Assembly:
From the front.

Drawing reference:
Form A: with base plate
Form B: without base plate

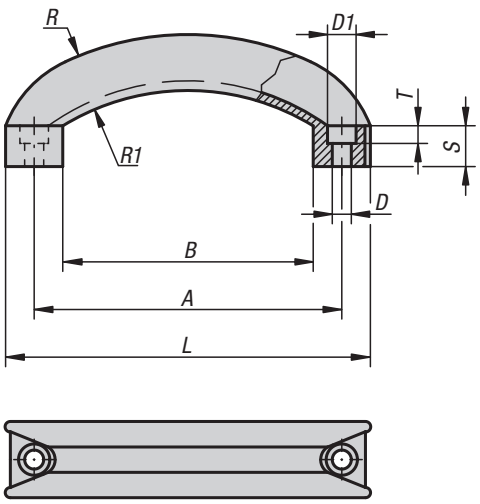
1) cover cap
2) base plate

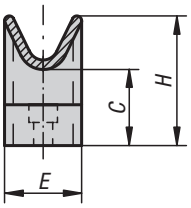
KIPP Pull handles, arch

Order No.	Form	Type	Version	A	B	B1	B2	D	D1	H	H1	H2	L	L1	M	Load capacity N
K0193.110006	A	with base plate	without cover cap	100	48	23	19	7	11	40	29	6	121	84	M6x25	600
K0193.112006	A	with base plate	with cover cap	120	57	28	23	7	12	52	36	7	152	104	M6x25	600
K0193.114008	A	with base plate	with cover cap	140	62	31	25	9,5	16	56	37	7,5	177	122	M8x30	600
K0193.210006	B	without base plate	without cover cap	100	-	23	19	7	11	38	31	4	121	84	M6x25	600
K0193.212006	B	without base plate	with cover cap	120	-	28	23	7	12	50	38	5	152	104	M6x25	600
K0193.214008	B	without base plate	with cover cap	140	-	31	25	9,5	16	54	39	5,5	177	122	M8x30	600

K0194

Pull handles arch







Material:
Black grey thermoplastic.

Sample order:
K0194.11406

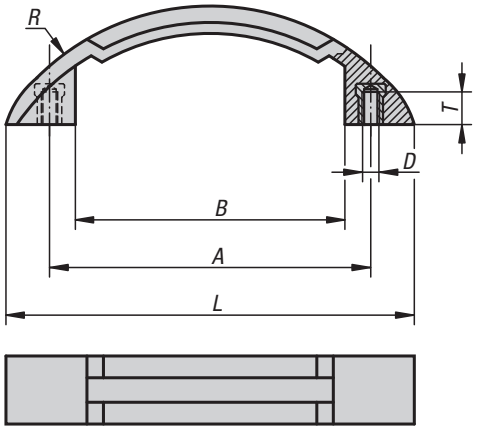
Assembly:
From the front.

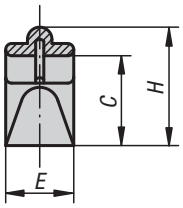
KIPP Pull handles arch

Order No.	D	D1	A	B	C	E	H	L	R	R1	S	T	Load capacity N
K0194.11406	6,5	10,5	114	92	29	28	48	134	117	79	15	6,5	1000

K0196

Pull handles arch







Material, version:
Thermoplastic, black grey.
Bushes galvanized steel.

Sample order:
K0196.11906

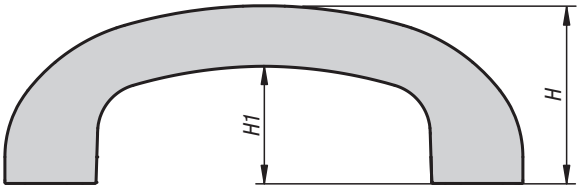
Assembly:
From the rear.

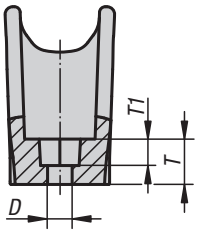
KIPP Pull handles arch

Order No.	D	A	B	C	E	H	L	R	T	Load capacity N
K0196.11906	M6	119	98	33	25	43,5	150	94	10	1000

Pull handles arch



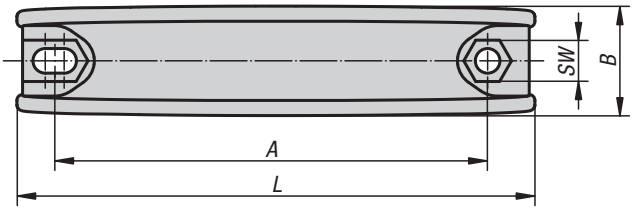




Material:
Black thermoplastic.

Sample order:
K1217.09006

Assembly:
From the front.



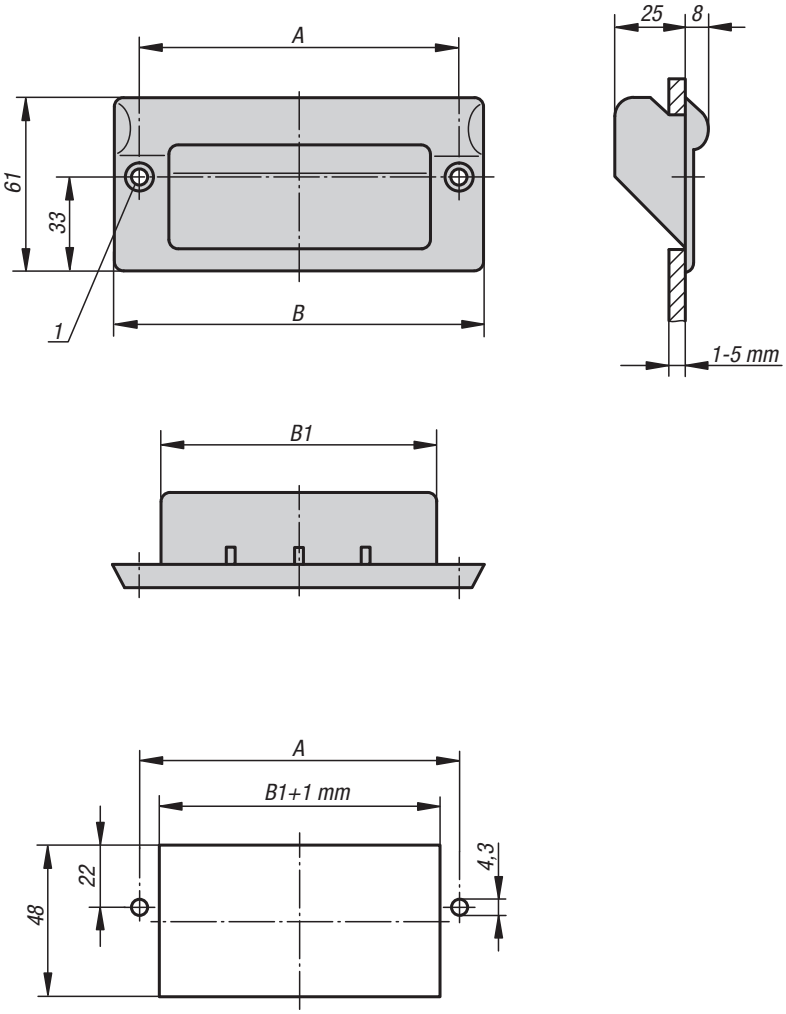
KIPP Pull handles arch

Order No.	A	B	D	H	H1	L	T	T1	SW	Load capacity N
K1217.09006	90-95	26,6	6,5	42	29	115	10	6,4	10,2	1000
K1217.11206	112-117	29	6,5	47	31	137	12	7	10,2	1000
K1217.17708	177-182	30	8,5	48,1	31	208	14	9	13,2	1000

Notes

Recessed handles





Material:
Glass bead reinforced thermoplastic

Version:
Semi-matt, black or light grey.

Sample order:
K0242.1082041

Note:
These ergonomically shaped handles are ideally suited for wall thicknesses of 1-5 mm.

Assembly:
The handle is inserted in the cutout of the housing panel and then fixed from the front with 2 countersunk screws (not supplied).

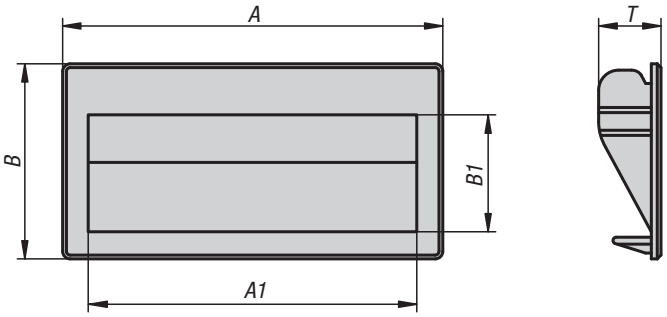
Drawing reference:
1) for countersunk screws M4

KIPP Recessed handles

Order No.	Main colour	A	B	B1	Load capacity N
K0242.1082041	black	82	100	67	1000
K0242.1112041	black	112	130	97	1000
K0242.1082042	light grey RAL 7035	82	100	67	1000
K0242.1112042	light grey RAL 7035	112	130	97	1000

Recessed handles





Material:
Thermoplastic (ABS).

Version:
black.

Sample order:
K1077.1101

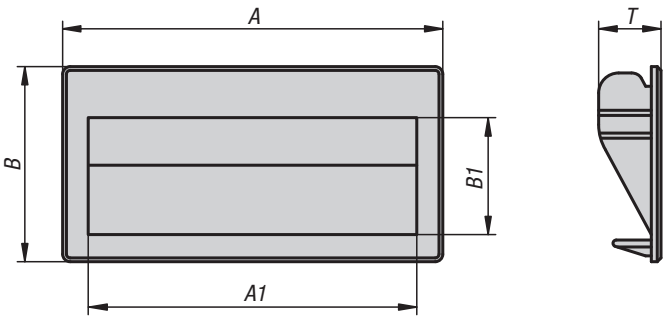
Note:
This handle can be used with a wall thickness of 0.75 to 1.5 mm.
The retaining force is 750 N per pair in steel and plate housings.

KIPP Recessed handles

Order No.	Colour	A	A1	B	B1	T	Mounting cutout	Load capacity N
K1077.0901	black	90	79	40	30	16	83 x 34	375
K1077.1101	black	110	95	56,3	33,8	18	103 x 49	375

Recessed handles





Material:
Thermoplastic (ABS).

Version:
black.

Sample order:
K1078.1871

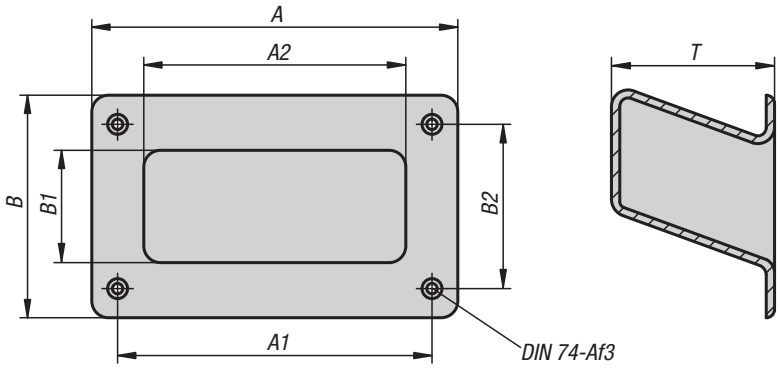
Note:
This handle can be used with a wall thickness of 1.5 to 2 mm.
The retaining force is 750 N per pair in steel and plate housings.

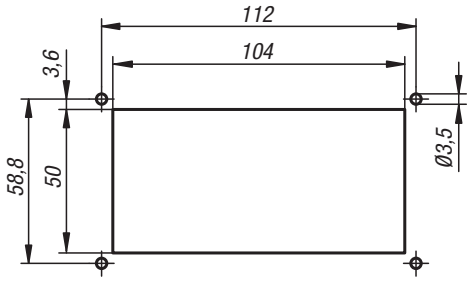
KIPP Recessed handles

Order No.	A	A1	B	B1	T	Mounting cutout	Load capacity N
K1078.1871	187	164	79	54	22	171x73	375

Recessed handles







Material:
Thermoplastic (ABS).

Version:
black.

Sample order:
K1079.1121

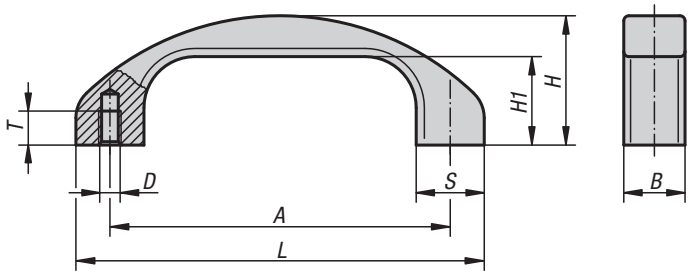
Note:
Max. load 500 N/pair.

KIPP Recessed handles

Order No.	A	A1	A2	B	B1	B2	T	Load capacity N
K1079.1121	131	112	94	79	40	58,8	58	250

K0195

Pull handles





Material:
Profile aluminium EN AW-6060

Version:
High quality anodized version, glass-bead blasted, semi-gloss finish.

Sample order:
K0195.120061

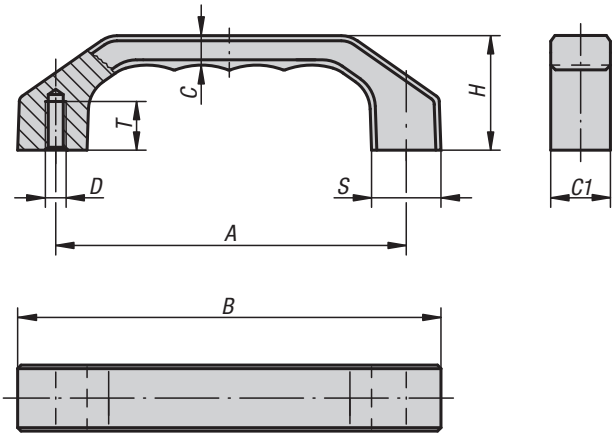
Assembly:
From the rear.

KIPP Pull handles

Order No.	Main colour	A	B	D	H	H1	L	S	T	Load capacity N
K0195.120061	black anodized	120	22	M6	46	31	144	24	12	1000
K0195.140081	black anodized	140	25	M8	53	36	168	28	15	1000
K0195.120063	natural anodized	120	22	M6	46	31	144	24	12	1000
K0195.140083	natural anodized	140	25	M8	53	36	168	28	15	1000

K0199

Pull handles





Material:
EN AW-6060

Version:
Matt-finished and anodized or powder-coated

Sample order:
K0199.140082

Assembly:
From the rear.

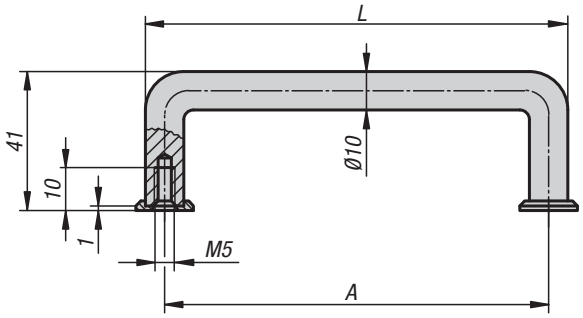
KIPP Pull handles

Order No. natural anodized	Order No. black anodized	Order No. titanium tone powder coated	A	B	C	C1	D	H	S	T	Load capacity N
K0199.120061	**K0199.120062**	**K0199.120063**	120	146	10,5	22	M6	39	24	15	1000
K0199.140081	**K0199.140082**	**K0199.140083**	140	170	12	25	M8	45	28	16	1000
K0199.160081	**K0199.160082**	**K0199.160083**	160	194	13,5	28	M8	52	32	16	1000

Pull handles round

19″





Material:
Round aluminium

Version:
Surface matt-finished and natural colour or black anodized

Sample order:
K0201.055051

Note:
End washers not included.

Assembly:
From the rear.

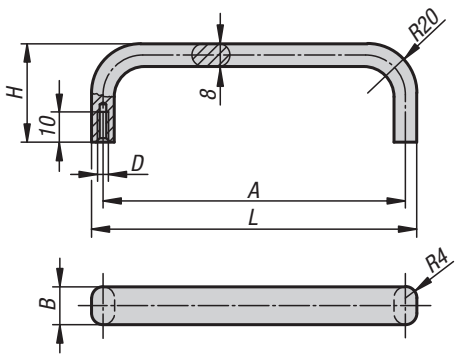
KIPP Pull handles round

Order No.	Main colour	A	L	Load capacity N	Order No. end washer
K0201.055051	black anodized	55	65	500	K0201.1
K0201.088051	black anodized	88	98	500	K0201.1
K0201.100051	black anodized	100	110	500	K0201.1
K0201.120051	black anodized	120	130	500	K0201.1
K0201.180051	black anodized	180	190	500	K0201.1
K0201.200051	black anodized	200	210	500	K0201.1
K0201.235051	black anodized	235	245	500	K0201.1
K0201.250051	black anodized	250	260	500	K0201.1
K0201.055053	natural anodized	55	65	500	K0201.3
K0201.088053	natural anodized	88	98	500	K0201.3
K0201.100053	natural anodized	100	110	500	K0201.3
K0201.120053	natural anodized	120	130	500	K0201.3
K0201.180053	natural anodized	180	190	500	K0201.3
K0201.200053	natural anodized	200	210	500	K0201.3
K0201.235053	natural anodized	235	245	500	K0201.3
K0201.250053	natural anodized	250	260	500	K0201.3

K0202

Pull handles oval

19″





Material:
Oval aluminium

Version:
Surface matt-finished and natural colour anodized or black anodized

Sample order:
K0202.055051

Assembly:
From the rear.

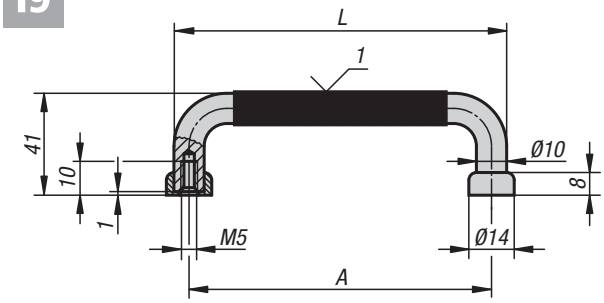
KIPP Pull handles oval

Order No. black anodized	Order No. natural colour anodized	A	B	D	H	L	Load capacity N
K0202.055051	K0202.055053	55	12	M5	40	63	500
K0202.088051	K0202.088053	88	12	M5	40	96	500
K0202.100051	K0202.100053	100	12	M5	40	108	500
K0202.120051	K0202.120053	120	12	M5	40	128	500
K0202.180051	K0202.180053	180	12	M5	40	188	500
K0202.200051	K0202.200053	200	12	M5	40	208	500
K0202.235051	K0202.235053	235	12	M5	40	243	500
K0202.250051	K0202.250053	250	12	M5	40	258	500

K0203

Pull handles round

19″





Material:
Round steel

Version:
Surface very finely ground and matt-polish chrome-plated.
Grip plastic coated.

Sample order:
K0203.05505

Note:
High quality handles for front panels and similar applications.

Assembly:
From the rear.

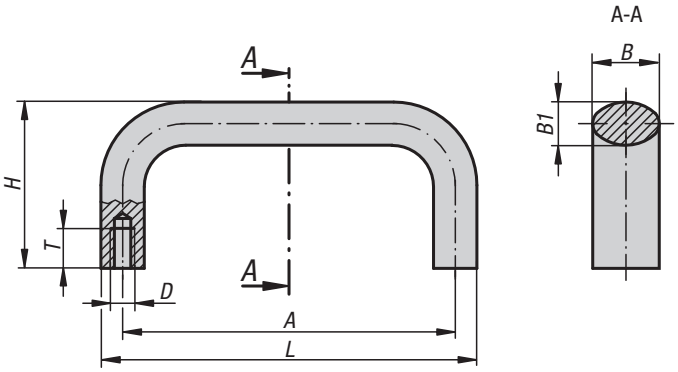
Drawing reference:
1) plastic coating

KIPP Pull handles round

Order No.	A	L	Load capacity N
K0203.05505	55	65	1000
K0203.08805	88	98	1000
K0203.10005	100	110	1000
K0203.10205	102	112	1000
K0203.11505	115	125	1000
K0203.12005	120	130	1000
K0203.13605	136	146	1000
K0203.18005	180	190	1000
K0203.20005	200	210	1000
K0203.23505	235	245	1000
K0203.25005	250	260	1000

Pull handles oval





Material:
Oval aluminium EN AW-6060

Version:
Black or ruby red RAL 3003 powder-coated or natural colour anodized.

Sample order:
K0204.10001

Note:
These handles are extremely robust and can be used where heavy duty equipment is called for.

Assembly:
From the rear.

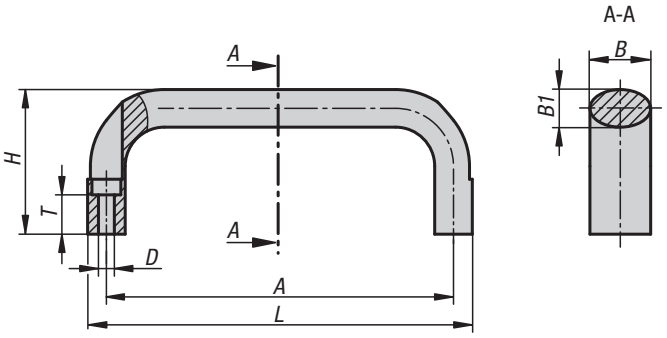
KIPP Pull handles, oval

Order No. black powder-coated	Order No. natural anodized	Order No. red RAL3003 powder-coated	A	B	B1	D	H	T	L	Load capacity N
K0204.10001	K0204.10003	K0204.10027	100	21/20/21	13	M6	50	12	113	1000
K0204.11201	K0204.11203	K0204.11227	112	21/20/21	13	M6	50	12	125	1000
K0204.1120108	K0204.1120308	K0204.1122708	112	25/26/25	17	M8	55	14	129	1000
K0204.12001	K0204.12003	K0204.12027	120	21/20/21	13	M6	50	12	133	1000
K0204.1200108	K0204.1200308	K0204.1202708	120	25/26/25	17	M8	55	14	137	1000
K0204.12801	K0204.12803	K0204.12827	128	21/20/21	13	M6	50	12	141	1000
K0204.1280108	K0204.1280308	K0204.1282708	128	25/26/25	17	M8	55	14	145	1000
K0204.1600106	K0204.1600306	K0204.1602706	160	21/20/21	13	M6	50	12	173	1000
K0204.16001	K0204.16003	K0204.16027	160	25/26/25	17	M8	55	14	177	1000
K0204.18001	K0204.18003	K0204.18027	180	25/26/25	17	M8	55	14	197	1000
K0204.19201	K0204.19203	K0204.19227	192	25/26/25	17	M8	55	14	209	1000
K0204.35001	K0204.35003	K0204.35027	350	25/26/25	17	M8	55	14	367	1000

Pull handles oval

with thru hole





Material:
Oval aluminium EN AW-6060

Version:
Black or ruby red RAL 3003, powder-coated.

Sample order:
K0204.11120105

Assembly:
From the front.

Accessories:
Suitable screws for mounting the handles:
ISO 4762-M5/M6 cap screws.

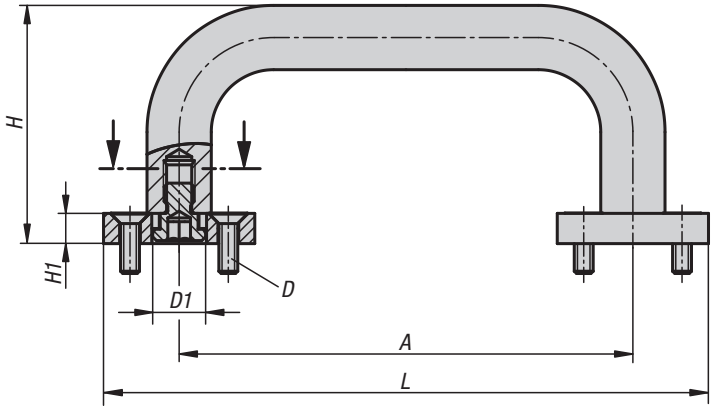
KIPP Pull handles, oval with thru hole

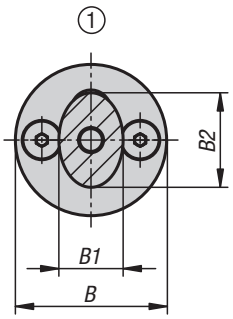
Order No. black powder-coated	Order No. red RAL3003 powder-coated	A	B	B1	D	H	L	T	Load capacity N
K0204.11000105	K0204.11002705	100	21	13	5,5	50	113	13,6	1000
K0204.11120105	K0204.11122705	112	21	13	5,5	50	125	13,6	1000
K0204.11120106	K0204.11122706	112	25	17	6,6	55	129	11	1000
K0204.11200105	K0204.11202705	120	21	13	5,5	50	133	13,6	1000
K0204.11200106	K0204.11202706	120	25	17	6,6	55	137	11	1000
K0204.11280105	K0204.11282705	128	21	13	5,5	50	141	13,6	1000
K0204.11280106	K0204.11282706	128	25	17	6,6	55	145	11	1000
K0204.11600105	K0204.11602705	160	21	13	5,5	50	173	13,6	1000
K0204.11600106	K0204.11602706	160	25	17	6,6	55	177	11	1000
K0204.11800106	K0204.11802706	180	25	17	6,6	55	197	11	1000

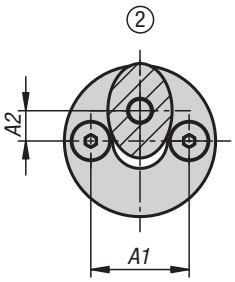
Notes

Pull handles oval detachable

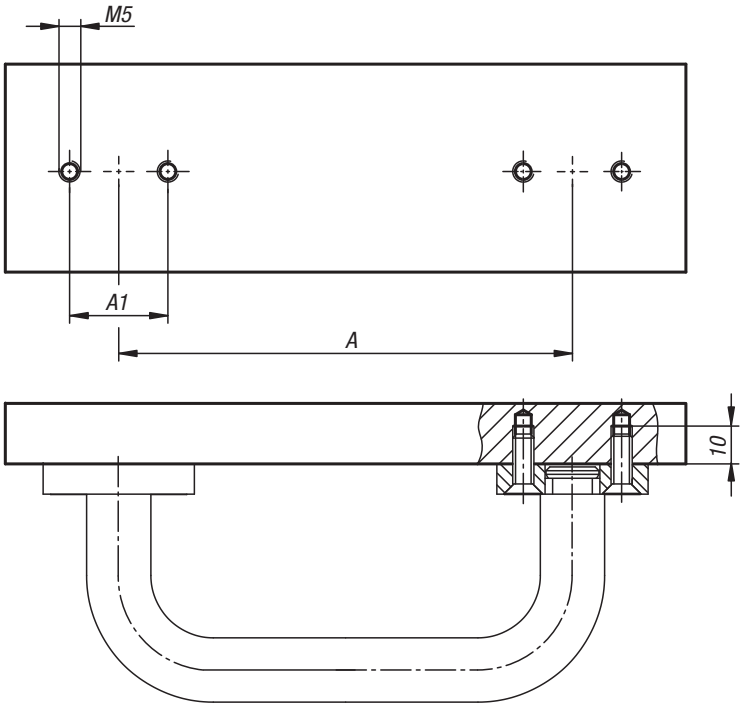








mounting instructions:



Material:
Pull handle oval aluminium EN AW-6060.
Locating pin free-cutting steel 1.0718.
Blanking disc free-cutting steel 1.0718.

Version:
Pull handle black powder-coated.
Locating pin black oxidised.
Blanking disc black oxidised.

Sample order:
K0204.10012001

Note:
The pull handles are mounted on an object by a push-fit system.
Dismantling is carried out when no load is applied.

Application:
Insert the pull handle into the opening until the grip makes contact with the blanking disc.
Lock by holding the handle parallel and pulling up.
The grip can only be subject to vertical loads.
To release, follow the previous instructions in reverse.

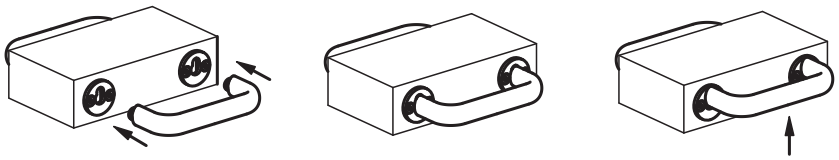
Assembly:
An object must be prepared before the blanking disc can be mounted.
See mounting instructions drawing.

Drawing reference:
1) Position disengaged
2) Position engaged

S = insert
E = engage
A = lift

Pull handles oval detachable

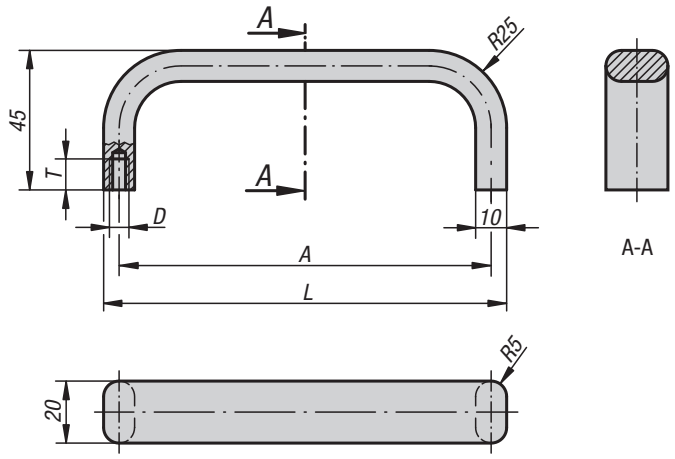




KIPP Pull handles oval detachable

Order No.	A	A1	A2	B	B1	B2	D	D1	H	H1	L	Load capacity N
K0204.10012001	100	24	7	35	13	21	M5x16	12	58	8	135	1000
K0204.11212001	112	24	7	35	13	21	M5x16	12	58	8	147	1000
K0204.11214001	112	26	8	40	15	25	M5x16	14	63	8	152	1000
K0204.12012001	120	24	7	35	13	21	M5x16	12	58	8	155	1000
K0204.12014001	120	26	8	40	17	25	M5x16	14	63	8	160	1000
K0204.12812001	128	24	7	35	13	21	M5x16	12	58	8	163	1000
K0204.12814001	128	26	8	40	17	25	M5x16	14	63	8	168	1000
K0204.16012001	160	24	7	35	13	21	M5x16	12	58	8	195	1000
K0204.16014001	160	26	8	40	17	25	M5x16	14	63	8	200	1000
K0204.18014001	180	26	8	40	17	25	M5x16	14	63	8	220	1000
K0204.19214001	192	26	8	40	17	25	M5x16	14	63	8	232	1000
K0204.35014001	350	26	8	40	17	25	M5x16	14	63	8	390	1000

Pull handles





Material:
Profile aluminium EN AW-6060

Version:
Matt-finished, black or natural colour anodized

Sample order:
K0205.18001

Note:
These elegant flat profile aluminium handles are especially suitable for machines, fixtures, equipment etc.

Assembly:
From the rear.

KIPP Pull handles

Order No. black anodized	Order No. natural anodized	A	D	L	T	Load capacity N
K0205.12001	**K0205.12003**	120	M5	130	10	500
K0205.18001	**K0205.18003**	180	M5	190	10	500
K0205.20001	**K0205.20003**	200	M5	210	10	500
K0205.35001	**K0205.35003**	350	M6	360	12	500

Notes

Pull handles

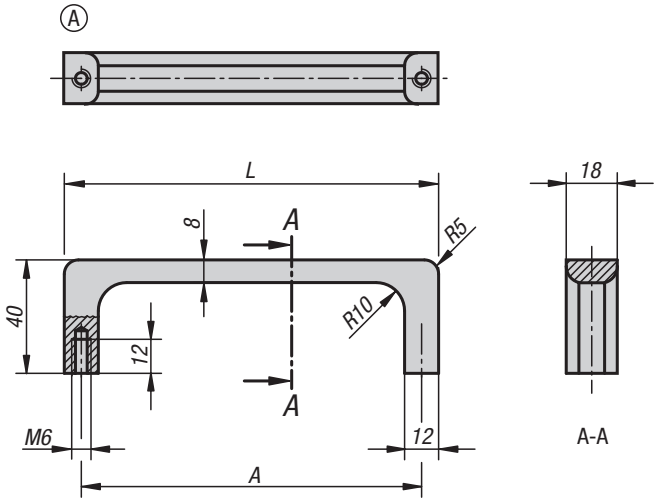


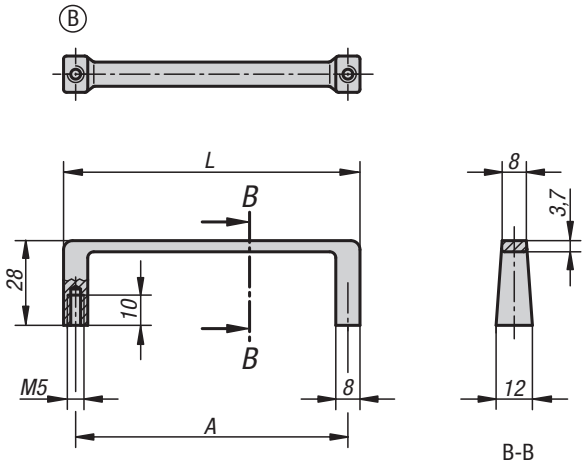
Material:
Profile aluminium EN AW-6060

Version:
Matt-finished, black anodized or natural colour anodized

Sample order:
K0213.12001

Assembly:
From the rear.



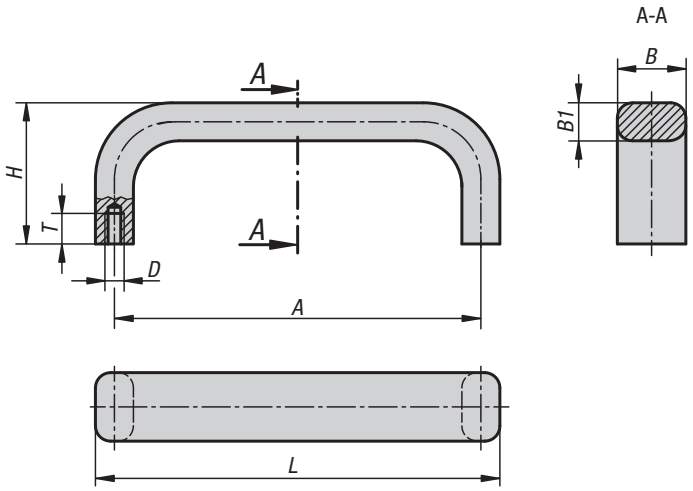


KIPP Pull handles

Order No.	Form	Main colour	A	L	Load capacity N
K0213.12001	A	black anodized	120	132	500
K0213.09001	B	black anodized	90	98	300
K0213.12003	A	natural anodized	120	132	500
K0213.09003	B	natural anodized	90	98	300

Pull handles





Material:
Aluminium.

Version:
Matt-finished, black anodized or natural colour anodized

Sample order:
K1091.088053

Note for ordering:
Fastening screws included.

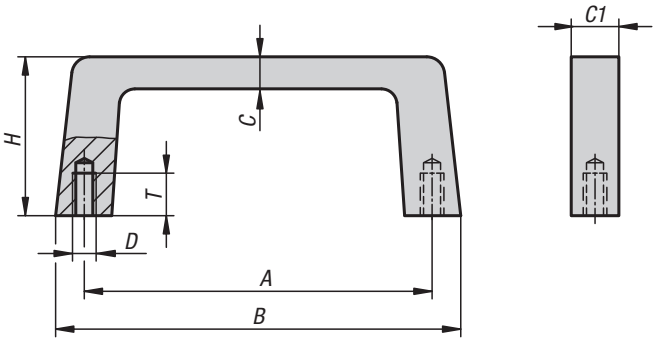
Assembly:
From the rear.

KIPP Pull handles

Order No. natural anodized	Order No. black anodized	A	B	B1	D	H	L	T	Load capacity N
K1091.055053	**K1091.055051**	55	12	8	M5	29	63	10	750
K1091.088053	**K1091.088051**	88	12	8	M5	29	96	10	750
K1091.100053	**K1091.100051**	100	12	8	M5	39	108	10	750
K1091.120053	**K1091.120051**	120	15	10	M5	39	130	10	750
K1091.180053	**K1091.180051**	180	15	10	M5	39	190	10	750
K1091.235053	**K1091.235051**	235	15	10	M5	39	245	10	750

Pull handles





Material:
Aluminium.

Version:
Matt-finished, black anodized or natural colour anodized

Sample order:
K1075.088053

Note for ordering:
Fastening screws included.

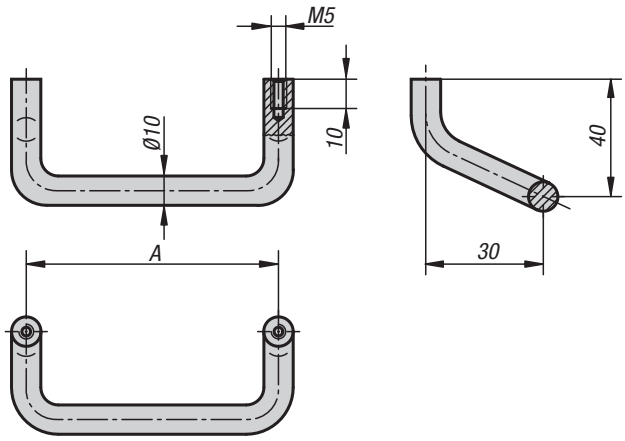
Assembly:
From the rear.

KIPP Pull handles

Order No. natural anodized	Order No. black anodized	A	B	C	C1	D	H	T	Load capacity N
K1075.055053	**K1075.055051**	55	69	8	12,2	M5	40	10	750
K1075.088053	**K1075.088051**	88	102	8	12,2	M5	40	10	750
K1075.120053	**K1075.120051**	120	134	8	12,2	M5	40	10	750
K1075.180053	**K1075.180051**	180	194	8	12,2	M5	40	10	750
K1075.235053	-	235	249	8	12,2	M5	40	10	750

K0219

Pull handles angled





Material:
Aluminium.

Version:
Matt-finished, black anodized or natural colour anodized.

Sample order:
K0219.12001

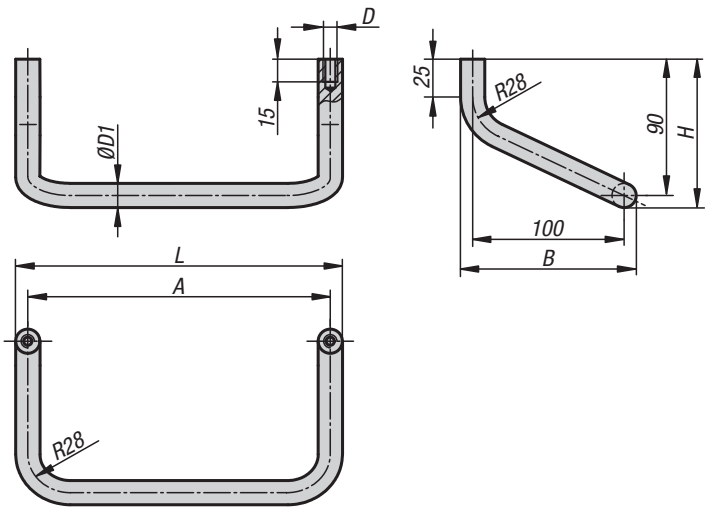
Assembly:
From the rear.

KIPP Pull handles angled

Order No. black anodized	Order No. natural anodized	A	Load capacity N
K0219.08601	**K0219.08603**	86	500
K0219.12001	**K0219.12003**	120	500
K0219.18001	**K0219.18003**	180	500

K0229

Pull handles angled





Material:
Round aluminium EN AW-6060

Version:
Ground, glass blasted and matt-gloss black anodized.

Sample order:
K0229.20016

Note:
End washers not included.

Assembly:
From the rear.

On request:
Any handle length.

KIPP Pull handles angled

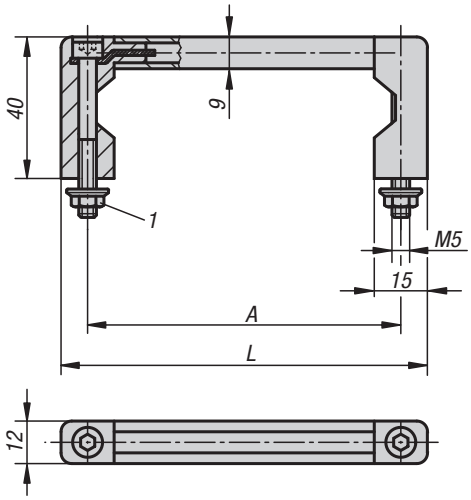
Order No.	A	B	D	D1	H	L	Load capacity N	Order No. end washer
K0229.20016	200	116	M8	16	98	216	1000	K0229.16
K0229.25016	250	116	M8	16	98	266	1000	K0229.16
K0229.30016	300	116	M8	16	98	316	1000	K0229.16
K0229.40016	400	116	M8	16	98	416	1000	K0229.16
K0229.50018	500	118	M8	18	99	518	1000	K0229.18

Pull handles

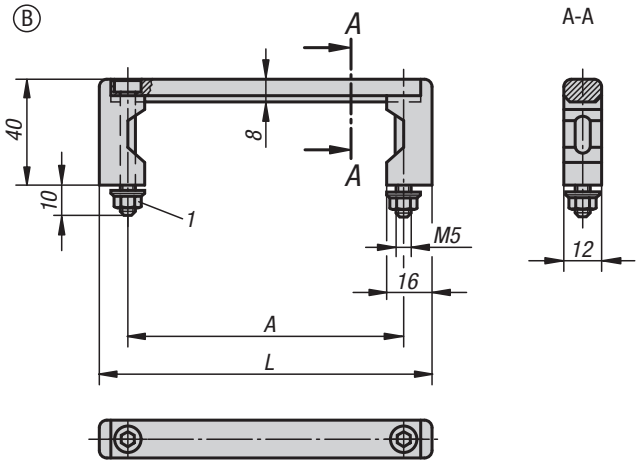
19″



Ⓐ



Ⓑ



Material:
Grip aluminium.
Legs glass-bead reinforced polyamide.

Version:
Grip matt-finished and natural tone or black anodized.
Legs fine structure semi-matt, black.

Sample order:
K0216.10001

Assembly:
From the front.

Drawing reference:
1) Toothed locknut

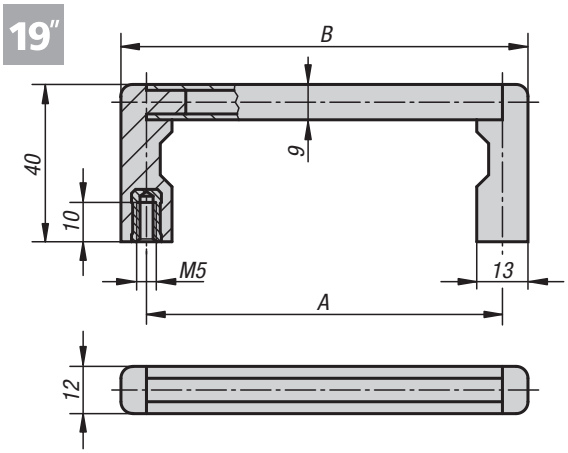
KIPP Pull handles

Order No. black anodized	Order No. natural anodized	Form	A	L	Load capacity N
K0216.05501	K0216.05503	A	55	70	1000
K0216.08801	K0216.08803	A	88	103	1000
K0216.10001	K0216.10003	A	100	115	1000
K0216.12001	K0216.12003	A	120	135	1000
K0216.18001	K0216.18003	A	180	195	1000
K0216.23501	K0216.23503	A	235	250	1000
K0216.055101	K0216.055103	B	55	75	1000
K0216.088101	K0216.088103	B	88	108	1000
K0216.100101	K0216.100103	B	100	120	1000
K0216.120101	K0216.120103	B	120	140	1000
K0216.180101	K0216.180103	B	180	200	1000
K0216.235101	K0216.235103	B	235	255	1000

K0217

Pull handles

19″





Material:
Grip aluminium.
Legs high-strength plastic

Version:
Grip natural colour or black anodized.

Sample order:
K0217.05501

Note:
Shorten the aluminium grip to reduce the handle length.

Assembly:
From the rear.

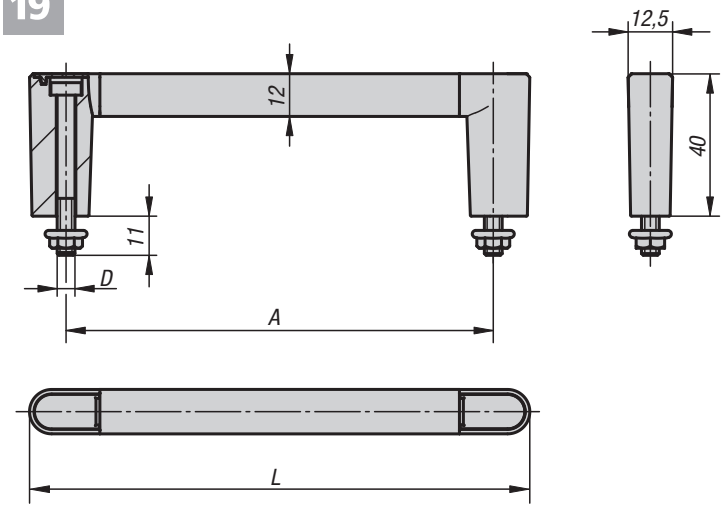
KIPP Pull handles

Order No. black anodized	Order No. natural anodized	A	B	Load capacity N
K0217.05501	**K0217.05503**	55	69	1000
K0217.08801	**K0217.08803**	88	102	1000
K0217.10001	**K0217.10003**	100	114	1000
K0217.12001	**K0217.12003**	120	134	1000
K0217.18001	**K0217.18003**	180	194	1000
K0217.23501	**K0217.23503**	235	249	1000

K1127

Pull handles

19″





Material:
Grip aluminium.
Legs and cap PA 6.
Screw and flange nut steel.

Version:
Grip natural colour or black anodized.
Screw and flange nut galvanized.

Sample order:
K1127.120203

Note:
- 19“
- Closed design
- Simple assembly
- The cap is tapped on using a plastic hammer

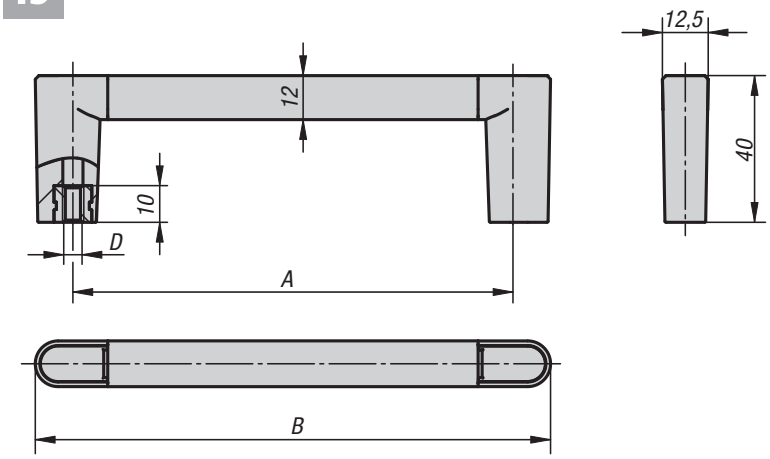
KIPP Pull handles

Order No. black anodized	Order No. natural anodized	A	D	L	Load capacity N
K1127.055201	**K1127.055203**	55	M5	75,5	1000
K1127.088201	**K1127.088203**	88	M5	108,5	1000
K1127.100201	**K1127.100203**	100	M5	120,5	1000
K1127.120201	**K1127.120203**	120	M5	140,5	1000
K1127.180201	**K1127.180203**	180	M5	200,5	1000
K1127.235201	**K1127.235203**	235	M5	255,5	1000

K1128

Pull handles

19″





Material:
Grip aluminium.
Legs and cap PA 6.
Tapped bush steel.

Version:
Grip natural colour or black anodized.
Tapped bush galvanized.

Sample order:
K1128.120101

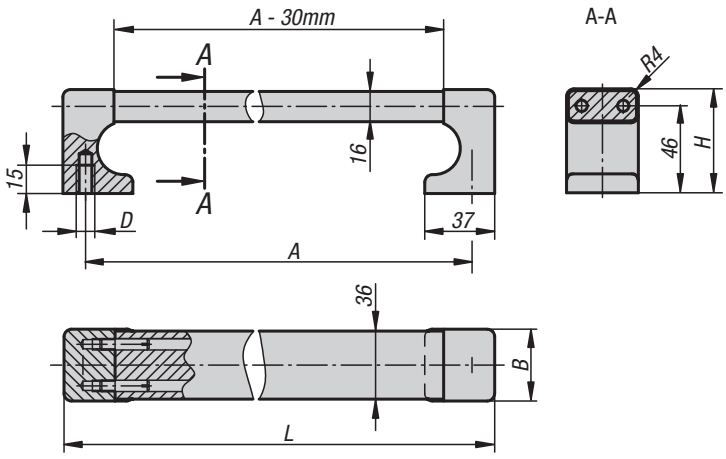
Note:
- 19“
- Closed design
- Simple assembly
- The cap is tapped on using a plastic hammer

KIPP Pull handles

Order No. black anodized	Order No. natural anodized	A	B	D	Load capacity N
K1128.055101	K1128.055103	55	75,5	M5	1000
K1128.088101	K1128.088103	88	108,5	M5	1000
K1128.100101	K1128.100103	100	120,5	M5	1000
K1128.120101	K1128.120103	120	140,5	M5	1000
K1128.180101	K1128.180103	180	200,5	M5	1000
K1128.235101	K1128.235103	235	255,5	M5	1000

K0228

Pull handles





Material:
Legs and grip aluminium EN AW-6060.
Connecting pins stainless steel.

Version:
Legs and grip finely ground, black anodized or natural colour anodized.

Sample order:
K0228.250081

Note:
The solid construction permits this handle series to also be used as edge protectors.

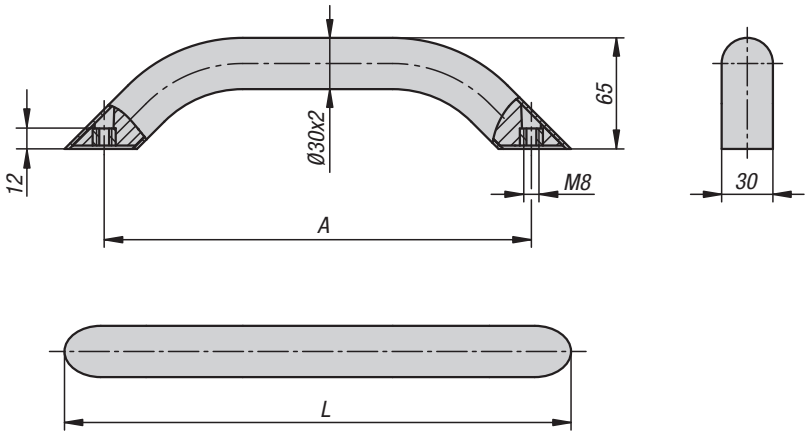
Assembly:
From the rear.

KIPP Pull handles

Order No. black anodized	Order No. natural anodized	A	B	D	H	L	Load capacity N
K0228.250081	K0228.250083	250	38	M8	55	274	1000
K0228.300081	K0228.300083	300	38	M8	55	324	1000
K0228.400081	K0228.400083	400	38	M8	55	424	1000
K0228.500081	K0228.500083	500	38	M8	55	524	1000
K0228.600081	K0228.600083	600	38	M8	55	624	1000

Tubular handles compact





Material:
Aluminium EN AW-6060

Version:
Anodised natural tone or powder-coated black, ruby red RAL 3003 or traffic red RAL 3020.

Sample order:
K0795.300083

Note:
The grip impresses with its solid look combined with its low weight.
Closed design due to rear fastening.

Assembly:
When fitting, both screws must be screwed in first before tightening.

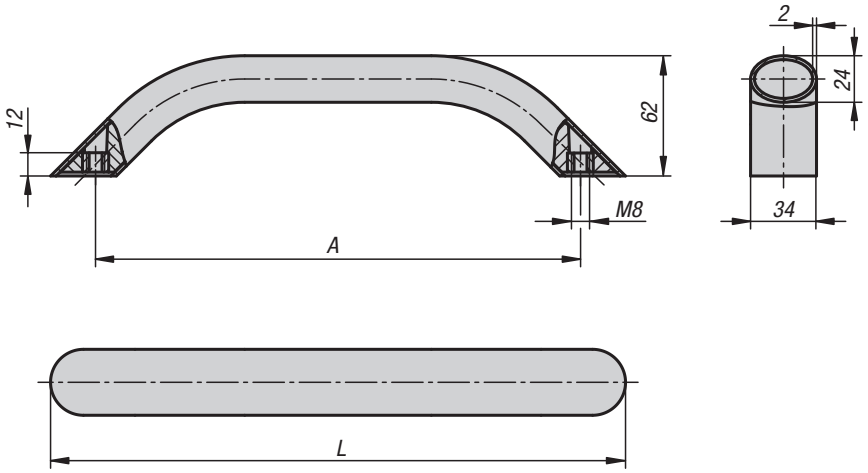
KIPP Tubular handles compact

Order No.	Main colour	A	L	Load capacity N
K0795.250083	natural anodized	250	296,4	1000
K0795.300083	natural anodized	300	346,4	1000
K0795.400083	natural anodized	400	446,4	1000
K0795.500083	natural anodized	500	546,4	1000
K0795.250081	black powder-coated	250	296,4	1000
K0795.300081	black powder-coated	300	346,4	1000
K0795.400081	black powder-coated	400	446,4	1000
K0795.500081	black powder-coated	500	546,4	1000
K0795.2500827	red RAL3003 powder-coated	250	296,4	1000
K0795.3000827	red RAL3003 powder-coated	300	346,4	1000
K0795.4000827	red RAL3003 powder-coated	400	446,4	1000
K0795.5000827	red RAL3003 powder-coated	500	546,4	1000
K0795.2500884	red RAL 3020 powder-coated	250	296,4	1000
K0795.3000884	red RAL 3020 powder-coated	300	346,4	1000
K0795.4000884	red RAL 3020 powder-coated	400	446,4	1000
K0795.5000884	red RAL 3020 powder-coated	500	546,4	1000

Tubular handles compact

oval





Material:
Profile aluminium EN AW-6060

Version:
Anodised natural tone or powder-coated black, ruby red RAL 3003 or traffic red RAL 3020.

Sample order:
K0796.400083

Note:
The grip impresses with its solid look combined with its low weight.
Closed design due to rear fastening.

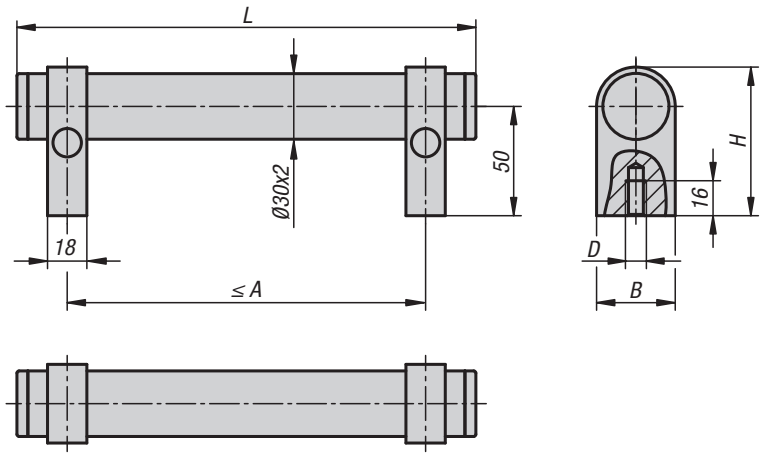
Assembly:
When fitting, both screws must be screwed in first before tightening.

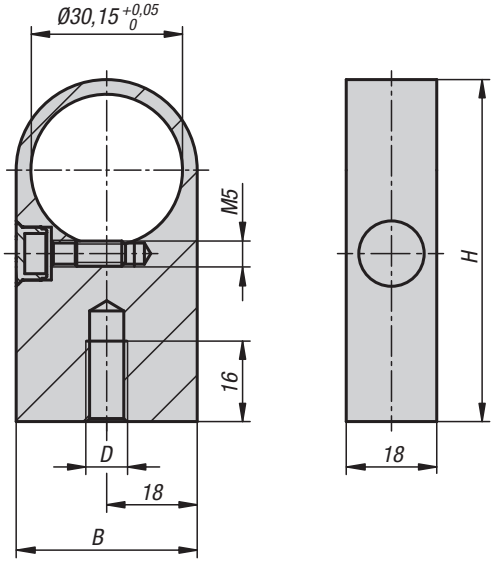
KIPP Tubular handles compact oval

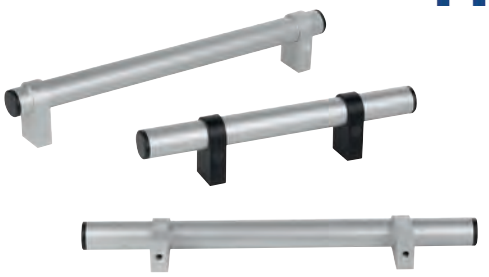
Order No.	Main colour	A	L	Load capacity N
K0796.250083	natural anodized	250	296,4	1000
K0796.300083	natural anodized	300	346,4	1000
K0796.400083	natural anodized	400	446,4	1000
K0796.500083	natural anodized	500	546,4	1000
K0796.250081	black powder-coated	250	296,4	1000
K0796.300081	black powder-coated	300	346,4	1000
K0796.400081	black powder-coated	400	446,4	1000
K0796.500081	black powder-coated	500	546,4	1000
K0796.2500827	red RAL3003 powder-coated	250	296,4	1000
K0796.3000827	red RAL3003 powder-coated	300	346,4	1000
K0796.4000827	red RAL3003 powder-coated	400	446,4	1000
K0796.5000827	red RAL3003 powder-coated	500	546,4	1000
K0796.2500884	red RAL 3020 powder-coated	250	296,4	1000
K0796.3000884	red RAL 3020 powder-coated	300	346,4	1000
K0796.4000884	red RAL 3020 powder-coated	400	446,4	1000
K0796.5000884	red RAL 3020 powder-coated	500	546,4	1000

Tubular handles

adjustable







Material:
Grip tube EN AW-6060.
Mounting bracket EN AW-6063.
End caps thermoplastic.
Grub screw ISO 4766-14H.

Version:
Grip tube anodized natural tone.
Mounting brackets anodized natural tone or black.
Grip end piece, black.
Bracket end cap light grey or black.

Sample order:
K1018.2503011

Note:
The adjustable tubular handles are supplied unassembled.
The centre distance for the tubular handles can be freely determined.
The recommended maximum centre distance can be found in the table under A max.
Additional mounting brackets can be included for long handle lengths or high loads.
The mounting brackets are supplied unassembled.

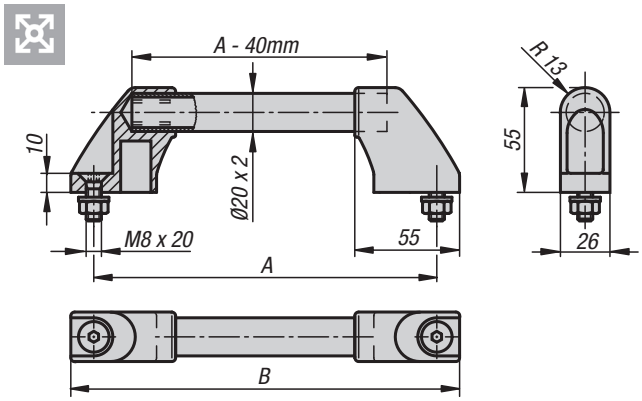
KIPP Tubular handles adjustable

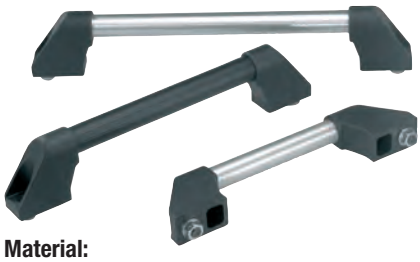
Order No.	Main colour	Component colour	A max.	B	D	H	L	Load capacity N
K1018.2503011	natural anodized	natural anodized	220	36	M8	68	250	1000
K1018.3003011	natural anodized	natural anodized	270	36	M8	68	300	1000
K1018.4003011	natural anodized	natural anodized	370	36	M8	68	400	1000
K1018.5003011	natural anodized	natural anodized	470	36	M8	68	500	1000
K1018.6003011	natural anodized	natural anodized	570	36	M8	68	600	1000
K1018.2503012	natural anodized	black anodized	220	36	M8	68	250	1000
K1018.3003012	natural anodized	black anodized	270	36	M8	68	300	1000
K1018.4003012	natural anodized	black anodized	370	36	M8	68	400	1000
K1018.5003012	natural anodized	black anodized	470	36	M8	68	500	1000
K1018.6003012	natural anodized	black anodized	570	36	M8	68	600	1000

KIPP Mounting brackets

Order No.	Main colour	B	D	H
K1018.08301	natural anodized	36	M8	68
K1018.08302	black anodized	36	M8	68

Tubular handles





Material:
Legs black glass-bead reinforced thermoplastic.
Grip tube aluminium.

Version:
Form A
Grip, ground and natural colour anodised
Form B
Grip with serrated plastic sheath.

Sample order:
K0210.200

Note:
The legs have 4 webs in the hole for the grip tube. When pushing the tube in, these are trimmed off and produce a precise seating.
Black galvanized fastening screws, suitable washers and nuts are supplied.

Assembly:
From the front.

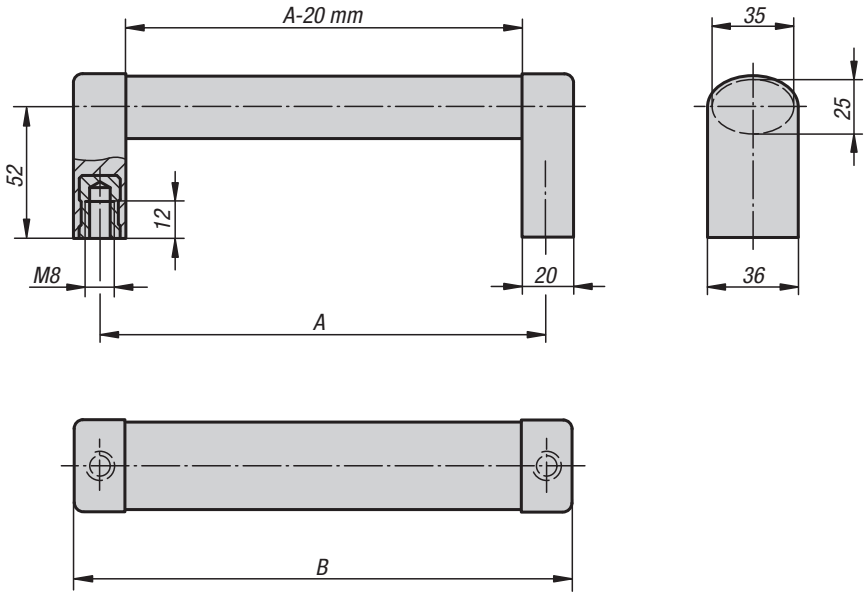
KIPP Pull handles tubular

Order No. Form A	Order No. Form B	A	B	Load capacity N
K0210.180	K0210.1803	180	204	500
K0210.200	K0210.2003	200	224	500
K0210.250	K0210.2503	250	274	500
K0210.300	K0210.3003	300	324	500
K0210.350	K0210.3503	350	374	500
K0210.400	K0210.4003	400	424	500
K0210.500	K0210.5003	500	524	500
K0210.600	K0210.6003	600	624	500

Notes

Tubular handles





Material:
Grip aluminium EN AW-6060.
Legs polyamide glass-bead reinforced.
Bushing brass.
Clamping sleeves stainless steel.

Version:
Grip natural colour or black anodized.
Legs aluminium colour or black.

Sample order:
K0211.1200081

Note:
Oval-profile handles for joining together. Version with plastic legs and aluminium oval grip.

Assembly:
From the rear.

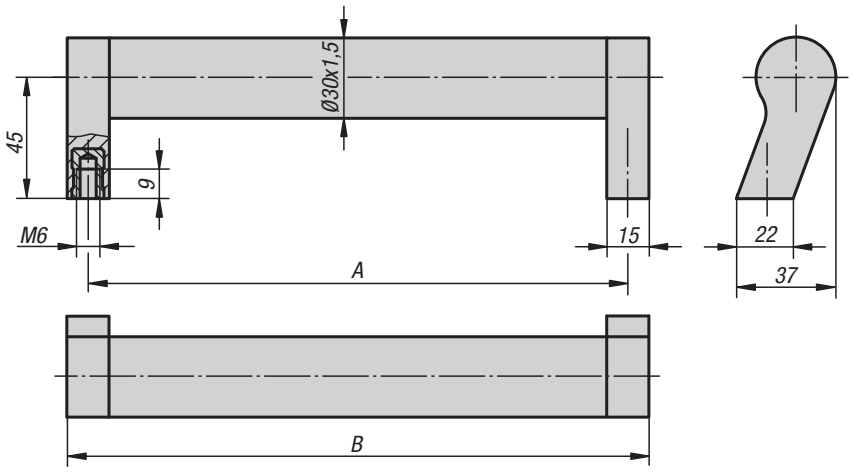
KIPP Tubular handles

Order No.	Main colour	Component colour	A	B	Load capacity N
K0211.1200081	natural anodized	aluminium tone	200	220	1000
K0211.1250081	natural anodized	aluminium tone	250	270	1000
K0211.1300081	natural anodized	aluminium tone	300	320	1000
K0211.1400081	natural anodized	aluminium tone	400	420	1000
K0211.1500081	natural anodized	aluminium tone	500	520	1000
K0211.1200082	natural anodized	black	200	220	1000
K0211.1250082	natural anodized	black	250	270	1000
K0211.1300082	natural anodized	black	300	320	1000
K0211.1400082	natural anodized	black	400	420	1000
K0211.1500082	natural anodized	black	500	520	1000
K0211.1200083	black anodized	black	200	220	1000
K0211.1250083	black anodized	black	250	270	1000
K0211.1300083	black anodized	black	300	320	1000
K0211.1400083	black anodized	black	400	420	1000
K0211.1500083	black anodized	black	500	520	1000

K0212

Tubular handles

oblique





Material:
Grip tube aluminium EN AW-6060;
Legs polyamide, glass-bead reinforced;
Bushing brass

Version:
Tube matt-polished anodized.
Legs black

Sample order:
K0212.2150061

Note:
Oblique tubular pull handles in modern industrial design. Webs on the leg spigot provide a precision fit for the tube.

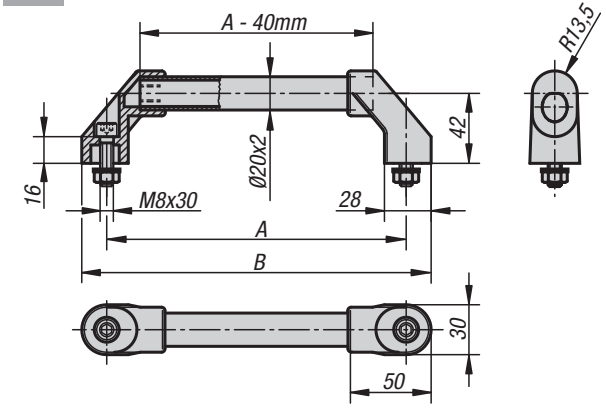
Assembly:
From the rear.

KIPP Tubular handles, oblique

Order No.	A	B	Load capacity N
K0212.2150061	150	165	800
K0212.2200061	200	215	800
K0212.2250061	250	265	800
K0212.2300061	300	315	800
K0212.2350061	350	365	800
K0212.2400061	400	415	800

K0221

Tubular handles





Material:
Legs black glass-bead reinforced thermoplastic.
Grip aluminium EN AW-6060.

Version:
Form A
Grip, ground and natural colour anodised.
Form B
Grip with serrated plastic sheath.

Sample order:
K0221.3001

Note:
The legs have 4 webs in the hole for the grip tube. When pushing the tube in these are trimmed off and produce a precise seating. Black galvanized fastening screws, suitable washers and nuts are supplied.

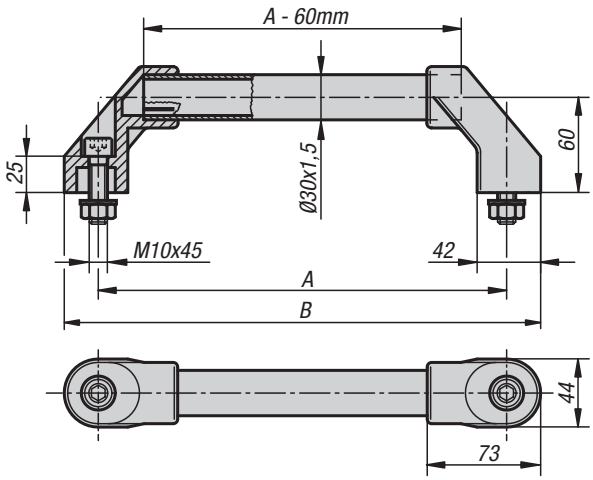
Assembly:
From the front.

KIPP Tubular handles

Order No. Form A	Order No. Form B	A	B	Load capacity N
K0221.1801	**K0221.1802**	180	210	1000
K0221.2001	**K0221.2002**	200	230	1000
K0221.2501	**K0221.2502**	250	280	1000
K0221.3001	**K0221.3002**	300	330	1000
K0221.3501	**K0221.3502**	350	380	1000
K0221.4001	**K0221.4002**	400	430	1000
K0221.5001	**K0221.5002**	500	530	1000
K0221.6001	**K0221.6002**	600	630	1000

Tubular handles





Material:
Legs black glass-bead reinforced thermoplastic.
Grip aluminium EN AW-6060 or stainless steel 1.4301.

Version:
Form A
Grip, ground and natural colour anodised.
Form B
Grip with serrated plastic sheath.
Form C
Grip, stainless steel, finely ground.

Sample order:
K0222.3501

Note:
The legs have 4 webs in the hole for the grip tube. When pushing the tube in these are trimmed off and produce a precise seating. Black galvanized fastening screws, suitable washers and nuts are supplied.

Form A grip ground and natural colour anodized.
Form B grip with serrated plastic coating.
Form C grip stainless steel, finely ground.

Assembly:
From the front.

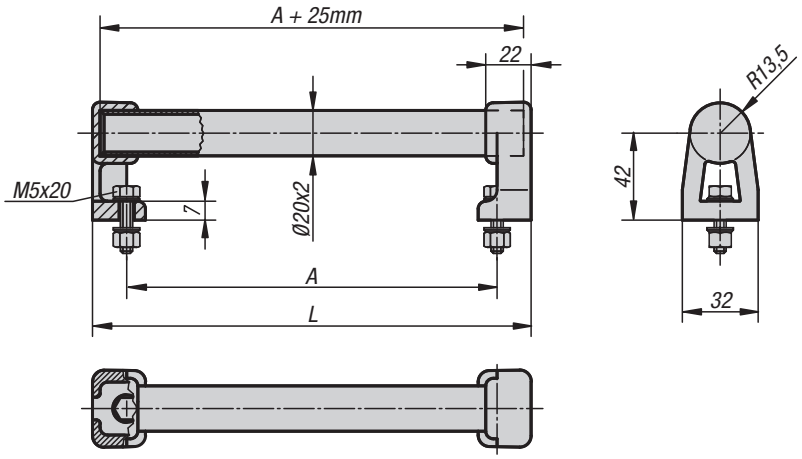
KIPP Tubular handles

Order No. Form A	Order No. Form B	Order No. Form C	A	B	Load capacity N
K0222.2501	**K0222.2502**	**K0222.2503**	250	294	1000
K0222.3001	**K0222.3002**	**K0222.3003**	300	344	1000
K0222.3501	**K0222.3502**	**K0222.3503**	350	394	1000
K0222.4001	**K0222.4002**	**K0222.4003**	400	444	1000
K0222.5001	**K0222.5002**	**K0222.5003**	500	544	1000
K0222.6001	**K0222.6002**	**K0222.6003**	600	644	1000

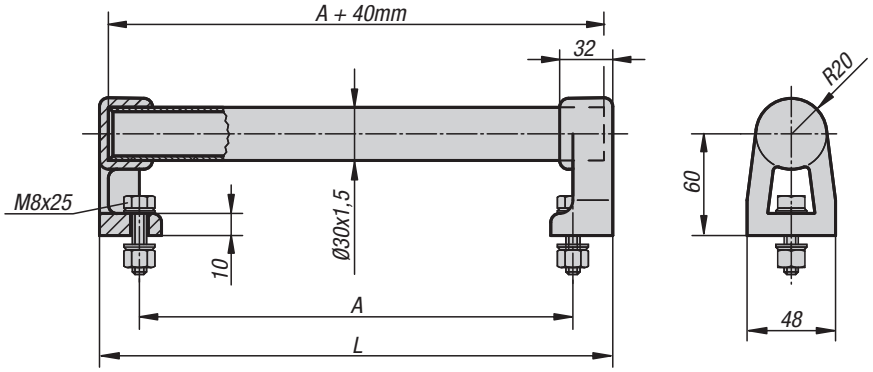
Tubular handles



Ⓐ



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Material:
Grip aluminium EN AW-6060.
Legs glass-bead reinforced polyamide.

Version:
Grip natural colour anodized or with black serrated plastic cover.

Sample order:
K0223.150203

Note:
The legs have 2 or 4 PVC profile pins in the hole for the grip tube. When pushing the tube in these are trimmed off and produce a precise seating.
Black galvanized fastening screws, suitable washers and nuts are supplied.

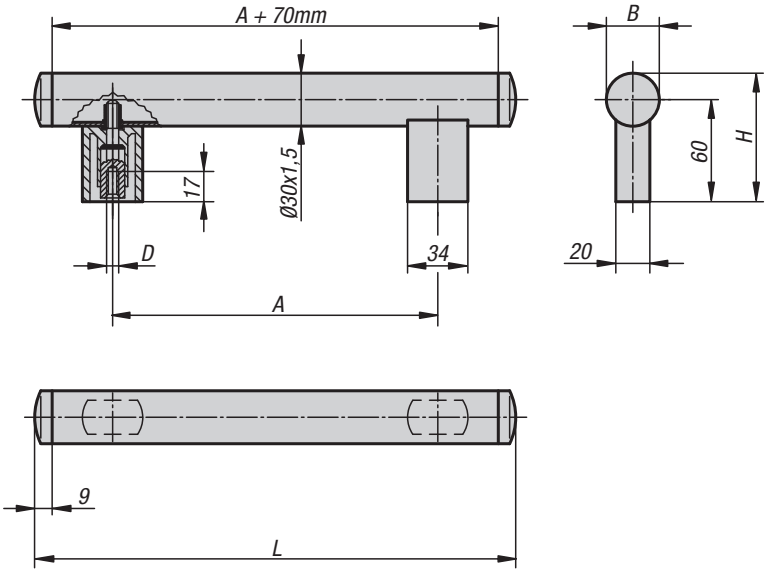
Assembly:
From the front.

KIPP Tubular handles

Order No. natural anodized	Order No. ribbed black plastic	Form	A	L	Load capacity N
K0223.150203	K0223.150202	A	150	184	1000
K0223.200203	K0223.200202	A	200	234	1000
K0223.300203	K0223.300202	A	300	334	1000
K0223.400203	K0223.400202	A	400	434	1000
K0223.500203	K0223.500202	A	500	534	1000
K0223.150303	K0223.150302	B	150	200	1000
K0223.200303	K0223.200302	B	200	250	1000
K0223.300303	K0223.300302	B	300	350	1000
K0223.400303	K0223.400302	B	400	450	1000
K0223.500303	K0223.500302	B	500	550	1000

Tubular handles





Material:
Legs and tube cap glass-bead reinforced polyamide.
Grip aluminium EN AW-6060.

Version:
Grip finely ground and black anodized or natural colour anodized.
Legs and tube cap semi-matt with fine texture, black.

Sample order:
K0224.200061

Note:
The legs and tube are fastened together with pull-out resistant rivet nuts.

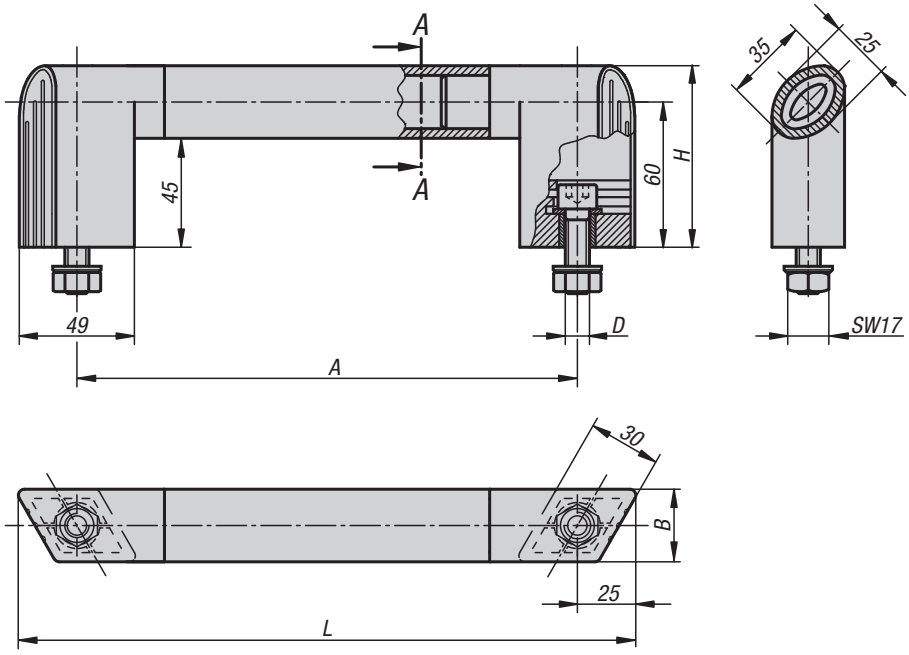
Assembly:
From the rear.

KIPP Tubular handles

Order No.	Main colour	A	B	D	H	L	Load capacity N
K0224.200061	black anodized	200	30	M6	75	288	800
K0224.250061	black anodized	250	30	M6	75	338	800
K0224.300061	black anodized	300	30	M6	75	388	800
K0224.400061	black anodized	400	30	M6	75	488	800
K0224.500061	black anodized	500	30	M6	75	588	800
K0224.200063	natural anodized	200	30	M6	75	288	800
K0224.250063	natural anodized	250	30	M6	75	338	800
K0224.300063	natural anodized	300	30	M6	75	388	800
K0224.400063	natural anodized	400	30	M6	75	488	800
K0224.500063	natural anodized	500	30	M6	75	588	800

Tubular handles “Bighand”





Secure gripping with the NOVO grip Bighand. The form of this heavy duty handle allows it to conform to any application where a robust grip with good haptic and optic is required.

Material:
Legs thermoplastic.
Oval grip aluminium.

Version:
Legs black grey.
Oval grip coated or anodized.

Sample order:
K0231.118070 (grip colour raspberry red)

Note:
The leg caps are supplied loose.
Supplied with:
For fastening versions 1+2 (DIN 912 cap screw) one set of M10 screws.
For fastening version 3 (DIN 571 hex head wood screw) one set of M5 screws with dowels, one drilling template and the mounting instructions.

Δ Add the desired colour code here. No colour code is required for black grey grips.

On request:
Centre distance “A” in special lengths.

colour codes:


black grey
RAL 7021


anodized black
Δ = 01

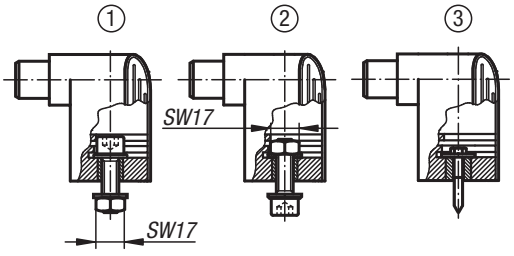

anodized natural
Δ = 03


ruby red
Δ = 27
RAL 3003


raspberry red
Δ = 70
RAL 3027


ocean blue
Δ = 73
RAL 5020

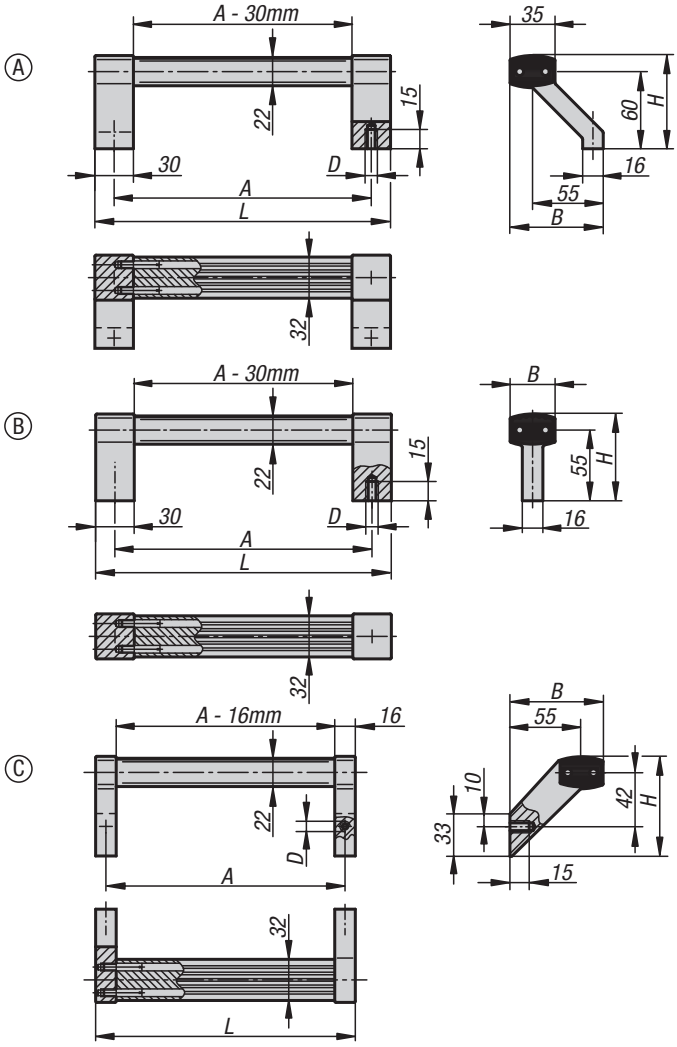
Mounting options



KIPP Tubular handles “Bighand”

Order No. version 1+2	Order No. version 3	A	B	D	H	L	Load capacity N
K0231.1180Δ	**K0231.118011Δ**	180	32	M10x45/M5x50	75	230	1000/-
K0231.1200Δ	**K0231.120011Δ**	200	32	M10x45/M5x50	75	250	1000/-
K0231.1250Δ	**K0231.125011Δ**	250	32	M10x45/M5x50	75	300	1000/-
K0231.1300Δ	**K0231.130011Δ**	300	32	M10x45/M5x50	75	350	1000/-
K0231.1350Δ	**K0231.135011Δ**	350	32	M10x45/M5x50	75	400	1000/-
K0231.1400Δ	**K0231.140011Δ**	400	32	M10x45/M5x50	75	450	1000/-
K0231.1500Δ	**K0231.150011Δ**	500	32	M10x45/M5x50	75	550	1000/-
K0231.1600Δ	**K0231.160011Δ**	600	32	M10x45/M5x50	75	650	1000/-

Tubular handles





Material:
Legs and grip aluminium profile EN AW-6060.
Connecting pins stainless steel.

Version:
Legs glass-bead blasted and semi-matt black anodized.
Grip brushed and natural colour anodized, black anodized or titanium colour powder-coated.

Sample order:
K0131.2000811

Note:
These tubular handles are characterised by robust construction and high load rating.
M8x16 hexagon head DIN 933 galvanized screws and DIN EN ISO 7089 galvanized washers are included.

Assembly:
From the rear.

KIPP Tubular handles, Form A

Order No. grip black anodized	Order No. grip titanium tone powder-coated	Order No. grip natural tone anodized	A	B	D	H	L	Load capacity N
K0131.2000811	K0131.2000812	K0131.2000813	200	72,5	M8	72,5	230	1000
K0131.3000811	K0131.3000812	K0131.3000813	300	72,5	M8	72,5	330	1000
K0131.4000811	K0131.4000812	K0131.4000813	400	72,5	M8	72,5	430	1000
K0131.5000811	K0131.5000812	K0131.5000813	500	72,5	M8	72,5	530	1000

KIPP Tubular handles, Form B

Order No. grip black anodized	Order No. grip titanium tone powder-coated	Order No. grip natural tone anodized	A	B	D	H	L	Load capacity N
K0131.2000821	K0131.2000822	K0131.2000823	200	35	M8	67,5	230	1000
K0131.3000821	K0131.3000822	K0131.3000823	300	35	M8	67,5	330	1000
K0131.4000821	K0131.4000822	K0131.4000823	400	35	M8	67,5	430	1000
K0131.5000821	K0131.5000822	K0131.5000823	500	35	M8	67,5	530	1000

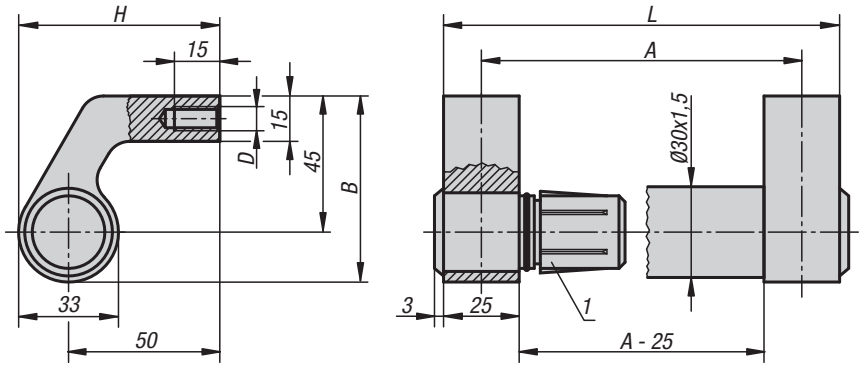
KIPP Tubular handles, Form C

Order No. grip black anodized	Order No. grip titanium tone powder-coated	Order No. grip natural tone anodized	A	B	D	H	L	Load capacity N
K0131.2000831	K0131.2000832	K0131.2000833	200	72,5	M8	77,5	216	1000
K0131.3000831	K0131.3000832	K0131.3000833	300	72,5	M8	77,5	316	1000
K0131.4000831	K0131.4000832	K0131.4000833	400	72,5	M8	77,5	416	1000
K0131.5000831	K0131.5000832	K0131.5000833	500	72,5	M8	77,5	516	1000

Tubular handles

angled





Material:
Legs EN AW-6060 extruded.
Grip inserts glass-bead reinforced thermoplastic.
Grip EN AW-6060.

Version:
Legs matt-gloss black anodized.
Grip insert black.
Grip fine ground and anodized, powder-coated or with serrated black plastic sleeve.

Sample order:
K0132.3001

Note:
The push-fit handle system shown here can be supplied as complete handles or as pre-assembled legs and grip inserts for mounting custom length grip tubes.
The connection between leg and grip tube is splash-proof and absolutely tight.

Assembly:
From the rear.

On request:
Supports for larger tube lengths.

Drawing reference:
1) grip insert

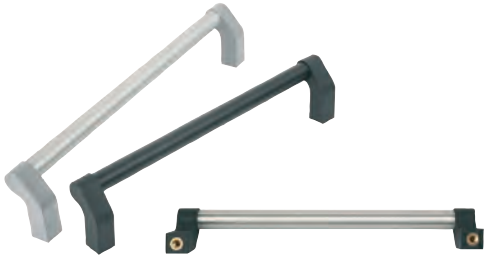
KIPP Tubular handles angled

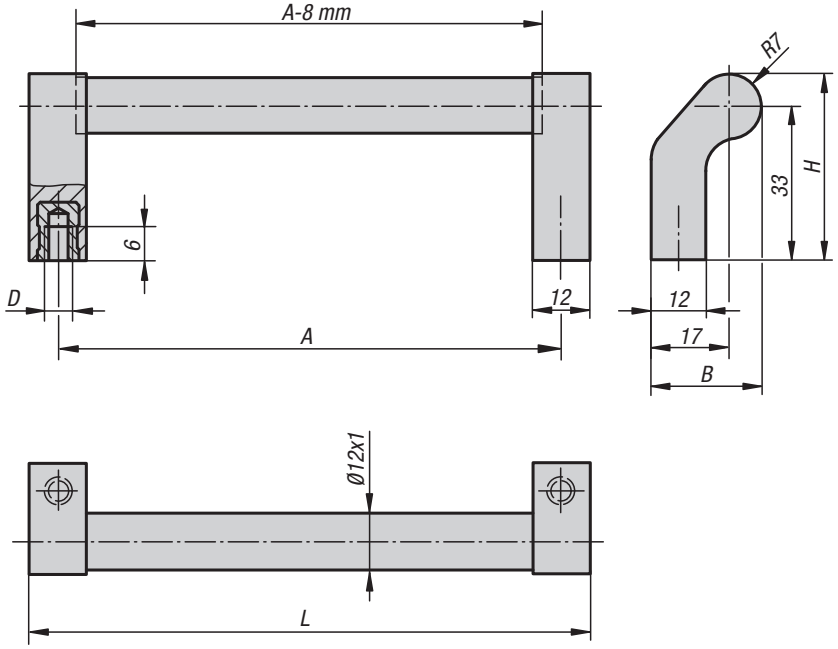
Order No. natural anodized	Order No. black anodized	Order No. black powder-coated	Order No. black plastic ribbed	A	B	D	H	L	Load capacity N
K0132.2001	K0132.2002	K0132.2003	K0132.2004	200	61,5	M8	66,5	225	1000
K0132.2501	K0132.2502	K0132.2503	K0132.2504	250	61,5	M8	66,5	275	1000
K0132.3001	K0132.3002	K0132.3003	K0132.3004	300	61,5	M8	66,5	325	1000
K0132.3501	K0132.3502	K0132.3503	K0132.3504	350	61,5	M8	66,5	375	1000
K0132.4001	K0132.4002	K0132.4003	K0132.4004	400	61,5	M8	66,5	425	1000
K0132.5001	K0132.5002	K0132.5003	K0132.5004	500	61,5	M8	66,5	525	1000
K0132.6001	K0132.6002	K0132.6003	K0132.6004	600	61,5	M8	66,5	625	1000

Tubular handles

angled

19″





Material:
Grip aluminium EN AW-6060 or stainless steel 1.4301.
Legs polyamide glass-bead reinforced.
Bushing brass.

Version:
Grip natural colour, black anodized or finely ground stainless steel.
Legs matt black.

Sample order:
K0235.088041

Note:
Clamping webs give a precision fit of tube to legs.

Assembly:
From the rear.

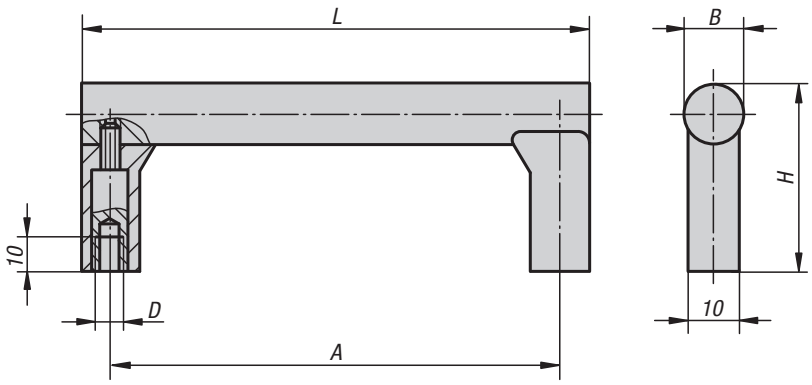
KIPP Tubular handles angled

Order No.	Main material	Main colour	A	B	D	H	L	Load capacity N
K0235.088041	aluminium	natural anodized	88	24	M4	40	100	200
K0235.096041	aluminium	natural anodized	96	24	M4	40	108	200
K0235.120041	aluminium	natural anodized	120	24	M4	40	132	200
K0235.128041	aluminium	natural anodized	128	24	M4	40	140	200
K0235.160041	aluminium	natural anodized	160	24	M4	40	172	200
K0235.180041	aluminium	natural anodized	180	24	M4	40	192	200
K0235.088042	aluminium	black anodized	88	24	M4	40	100	200
K0235.096042	aluminium	black anodized	96	24	M4	40	108	200
K0235.120042	aluminium	black anodized	120	24	M4	40	132	200
K0235.128042	aluminium	black anodized	128	24	M4	40	140	200
K0235.160042	aluminium	black anodized	160	24	M4	40	172	200
K0235.180042	aluminium	black anodized	180	24	M4	40	192	200
K0235.088043	stainless steel	ground	88	24	M4	40	100	200
K0235.096043	stainless steel	ground	96	24	M4	40	108	200
K0235.120043	stainless steel	ground	120	24	M4	40	132	200
K0235.128043	stainless steel	ground	128	24	M4	40	140	200
K0235.160043	stainless steel	ground	160	24	M4	40	172	200
K0235.180043	stainless steel	ground	180	24	M4	40	192	200

Tubular handles

19″





Material:
Grip aluminium EN AW-6060.
Legs polyamide glass-bead reinforced.
Bushing brass.

Version:
Grip fine ground and natural colour or black anodized.
Legs aluminium colour or black.

Sample order:
K0236.1055041

Note:
Grip and legs are screwed securely together.

Assembly:
From the rear.

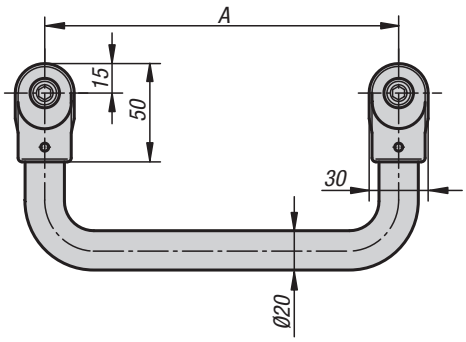
KIPP Tubular handles

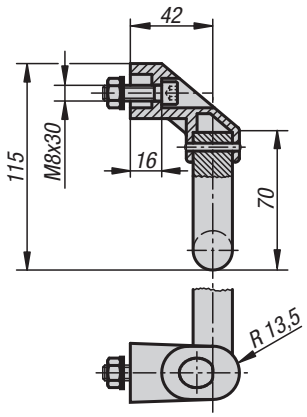
Order No. natural anodized	Order No. black anodized	Component colour	A	B	D	H	L	Load capacity N
K0236.1055041	**K0236.1055043**	aluminium tone	55	12	M4	37	67	300
K0236.1088041	**K0236.1088043**	aluminium tone	88	12	M4	37	100	300
K0236.1100041	**K0236.1100043**	aluminium tone	100	12	M4	37	112	300
K0236.1120041	**K0236.1120043**	aluminium tone	120	12	M4	37	132	300
K0236.1180041	**K0236.1180043**	aluminium tone	180	12	M4	37	192	300
K0236.1055042	**K0236.1055044**	black	55	12	M4	37	67	300
K0236.1088042	**K0236.1088044**	black	88	12	M4	37	100	300
K0236.1100042	**K0236.1100044**	black	100	12	M4	37	112	300
K0236.1120042	**K0236.1120044**	black	120	12	M4	37	132	300
K0236.1180042	**K0236.1180044**	black	180	12	M4	37	192	300

Tubular handles

angled







Material:
Leg glass-bead reinforced thermoplastic.
Grip aluminium tube.

Version:
Black thermoplastic.
Anodized aluminium.

Sample order:
K0220.3002

Note:
The legs are pinned to the aluminium tube. Black galvanized socket head screws, nuts and washers are supplied.

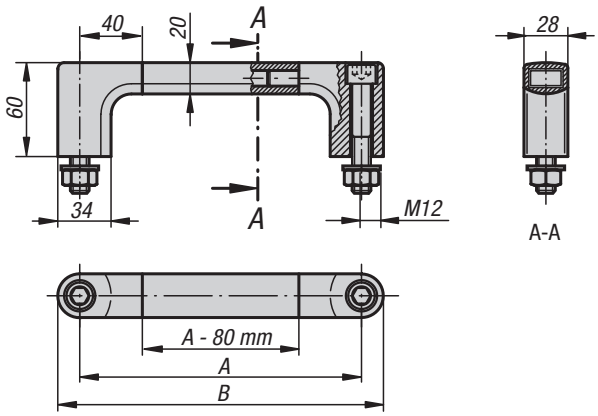
Assembly:
From the front.

KIPP Tubular handles angled

Order No. natural anodized	Order No. black anodized	A	Load capacity N
K0220.2001	K0220.2002	200	800
K0220.2501	K0220.2502	250	800
K0220.3001	K0220.3002	300	800
K0220.3501	K0220.3502	350	800
K0220.4001	K0220.4002	400	800

Tubular handles





Material:
Aluminium.

Version:
Leg black powder-coated.
Grip natural colour anodized.

Sample order:
K0209.300

Note:
Black galvanized M12x70 hexagon socket bolts, suitable washers and nuts for fastening are supplied.

Assembly:
From the front.

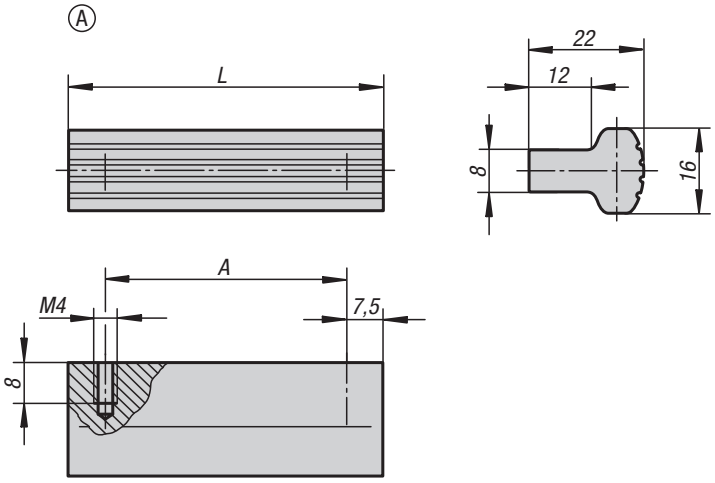
KIPP Tubular handles

Order No.	A	B	Load capacity N
K0209.180	180	208	1000
K0209.200	200	228	1000
K0209.250	250	278	1000
K0209.300	300	328	1000
K0209.350	350	378	1000
K0209.400	400	428	1000
K0209.500	500	528	1000
K0209.600	600	628	1000

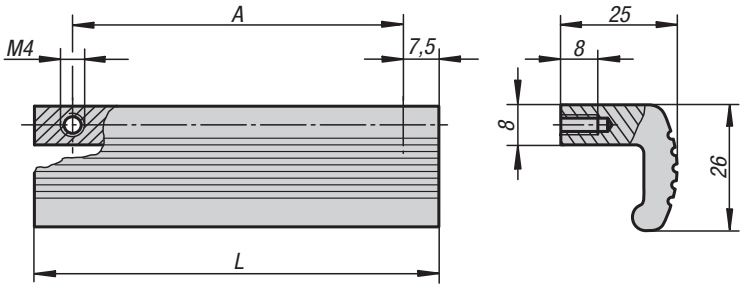
Ledge handles



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Material:
Profile aluminium EN AW-6060

Version:
Profile aluminium vibration ground, matt-finished and natural colour or black anodized.

Sample order:
K0232.10301

Note:
All-purpose profile handles. Form A can also be used as excellent edge protection.

Assembly:
From the rear.

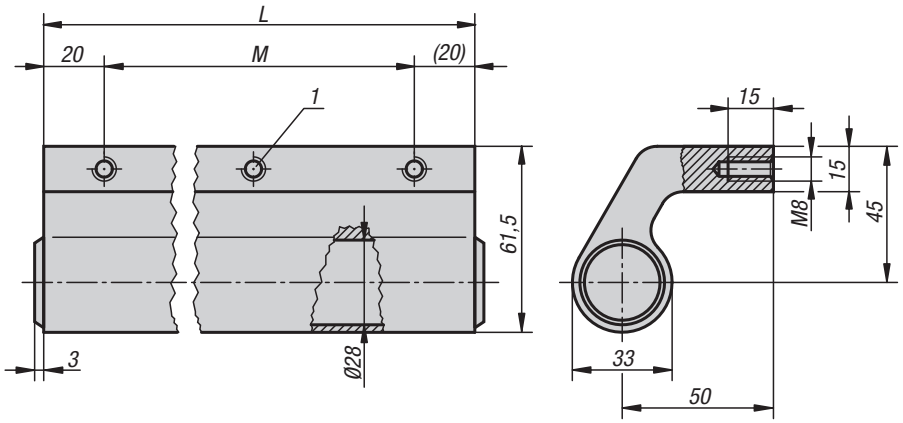
On request:
Any other lengths.

KIPP Ledge handles

Order No. natural anodized	Order No. black anodized	Form	A	L	Load capacity N
K0232.10301	K0232.10302	A	30	45	200
K0232.10451	K0232.10452	A	45	60	200
K0232.10701	K0232.10702	A	70	85	200
K0232.10901	K0232.10902	A	90	105	200
K0232.11051	K0232.11052	A	105	120	200
K0232.11201	K0232.11202	A	120	135	200
K0232.20301	K0232.20302	B	30	45	200
K0232.20451	K0232.20452	B	45	60	200
K0232.20701	K0232.20702	B	70	85	200
K0232.20901	K0232.20902	B	90	105	200
K0232.21051	K0232.21052	B	105	120	200
K0232.21201	K0232.21202	B	120	135	200

Ledge handles





Material:
Profile aluminium EN AW-6060.
End caps black thermoplastic.

Version:
Matt-gloss anodized.

Sample order:
K0130.3001

Note:
Ledge handles have many uses including sliding doors and technical installations. This ledge handle is also suitable as edge protection.

Assembly:
From the rear.

Drawing reference:
1) middle tapped hole only L ≥ 400 mm

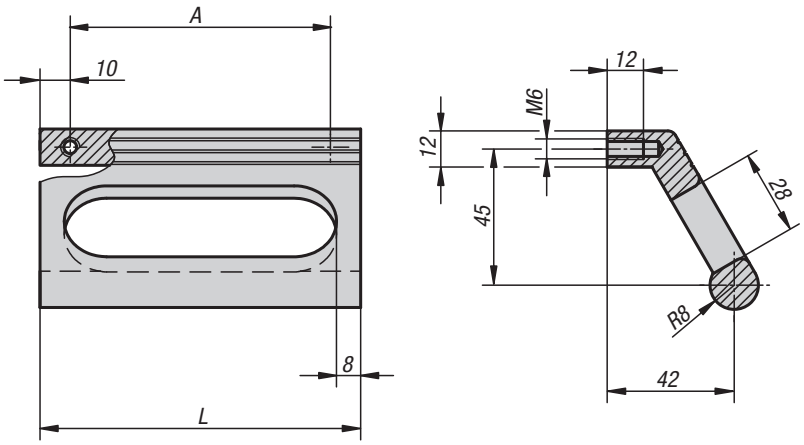
KIPP Ledge handles

Order No.	Main colour	L	M	Load capacity N
K0130.1501	natural anodized	150	110	1000
K0130.2001	natural anodized	200	160	1000
K0130.2501	natural anodized	250	210	1000
K0130.3001	natural anodized	300	260	1000
K0130.3501	natural anodized	350	310	1000
K0130.4001	natural anodized	400	360	1000
K0130.1502	black anodized	150	110	1000
K0130.2002	black anodized	200	160	1000
K0130.2502	black anodized	250	210	1000
K0130.3002	black anodized	300	260	1000
K0130.3502	black anodized	350	310	1000
K0130.4002	black anodized	400	360	1000
K0130.5002	black anodized	500	460	1000
K0130.6002	black anodized	600	560	1000

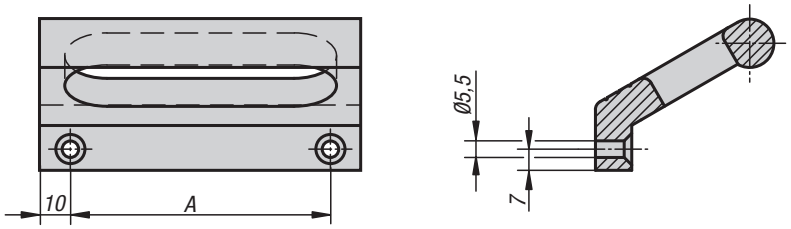
Ledge handles



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Material:
Profile aluminium EN AW-6060

Version:
Matt-gloss anodized.

Sample order:
K0234.086061

Note:
These ledge handles are available with M6 internal thread or with through hole for M5 countersunk screws for front mounting.

Assembly:
Form A from the rear.
Form B from the front.

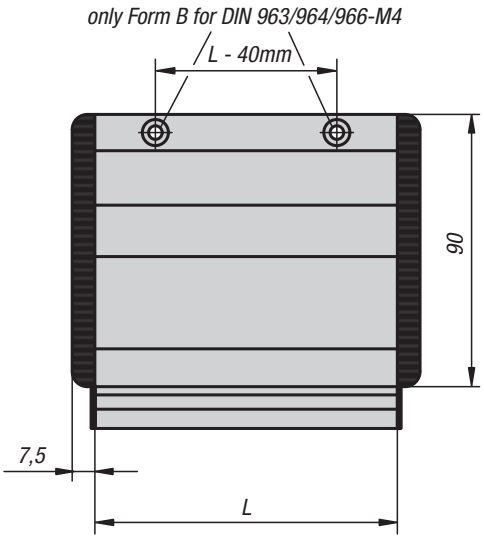
KIPP Ledge handles

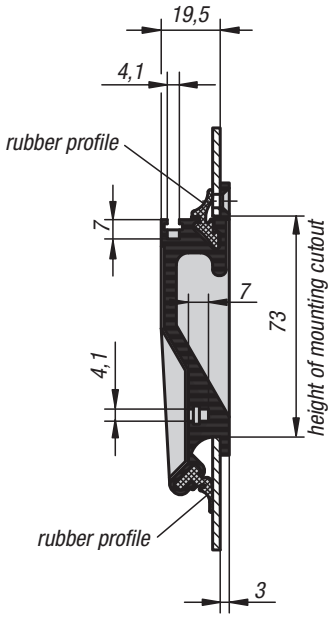
Order No.	Form	Main colour	A	L	Load capacity N
K0234.086061	A	black anodized	86	106	500
K0234.100061	A	black anodized	100	120	500
K0234.120061	A	black anodized	120	140	500
K0234.086063	A	natural anodized	86	106	500
K0234.100063	A	natural anodized	100	120	500
K0234.120063	A	natural anodized	120	140	500
K0234.086051	B	black anodized	86	106	500
K0234.100051	B	black anodized	100	120	500
K0234.120051	B	black anodized	120	140	500
K0234.086053	B	natural anodized	86	106	500
K0234.100053	B	natural anodized	100	120	500
K0234.120053	B	natural anodized	120	140	500

Recessed handles

19″







Material:
Grip aluminium profile.
End caps polyamide.
Form A: rubber profile for mounting.
Form B: 2 steel countersunk screws for mounting.

Version:
Handle glass-bead blasted, satin finish and black anodized or natural colour anodized.
Rubber profile black.
Fastening screws galvanized.

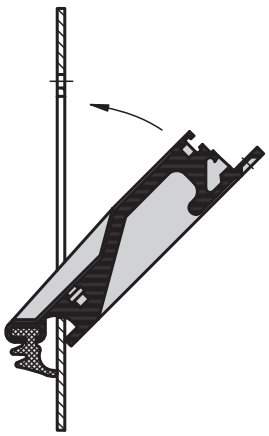
Sample order:
K0238.10011

Note:
The Form A handles can be mounted without screws by material thicknesses of 1 - 2.5 mm. Two rubber profiles ensure an absolutely firm hold.
The Form B handles can be mounted from the front with 2 countersunk screws.

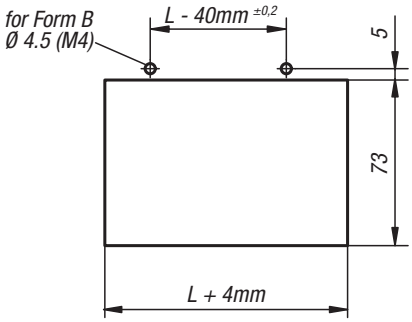
Two cross-slots offset by 90° for M4 screws allow an earthing cable to be connected and can serve as mounting aids for additional parts.

Assembly:
After fitting the lower rubber profile, press the two side caps onto the handle. Next press the handle over the lower edge of the mounting cutout at a 45° angle and then push it up against the housing panel.
Now, depending on which type is being used, push the 2nd rubber profile into the upper groove or fix in place with 2 countersunk screws.

installation



mounting cutout



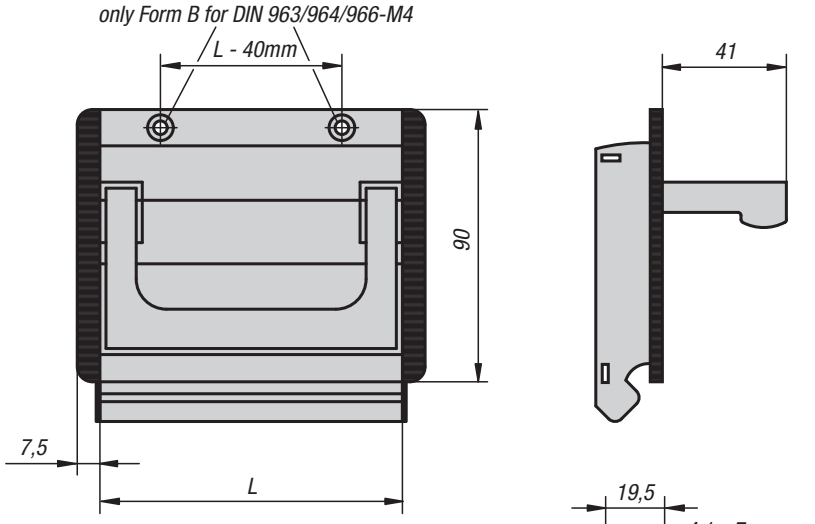
KIPP Recessed handles

Order No. black anodized	Order No. natural anodized	Form	L	Mounting cutout	Load capacity N
K0238.10011	K0238.10013	A	100	104 x 73	500
K0238.11811	K0238.11813	A	118	122 x 73	500
K0238.16711	K0238.16713	A	167	171 x 73	500
K0238.10021	K0238.10023	B	100	104 x 73	500
K0238.11821	K0238.11823	B	118	122 x 73	500
K0238.16721	K0238.16723	B	167	171 x 73	500

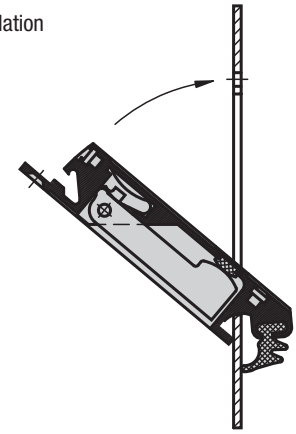
Recessed handles

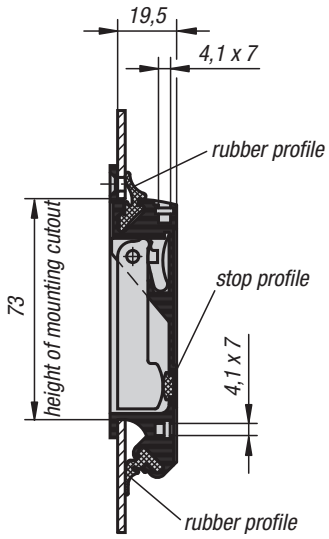
fold-down

19″

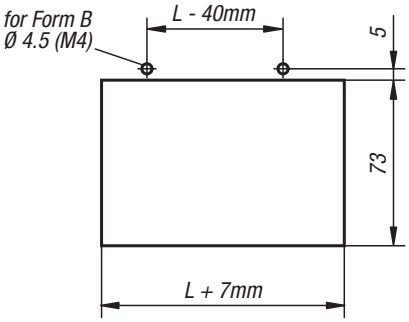


installation





mounting cutout





Material:
Tray and grip aluminium profile.
End caps polyamide.
Form A: Rubber profile for mounting.
Form B: 2 steel countersunk screws for mounting.

Version:
Tray and grip glass-bead blasted, satin finish and black anodized or natural colour anodized.
Rubber profile black.
Fastening screws galvanized

Sample order:
K0239.10011

Note:
Form A handles can be mounted without screws for material thicknesses of 1 - 2.5 mm using 2 rubber profiles.
Form B handles can be mounted from the front with 2 countersunk screws.
Two cross-slots for M4 screws allow earthing connection and can serve as a mounting aid for additional parts.

Assembly:
After fitting the lower rubber profile, press the two side caps onto the handle. Next press the handle over the lower edge of the mounting cutout at a 45° angle and then push it up against the housing panel.
Now push the 2nd rubber profile into the upper groove or fix in place with 2 countersunk screws.

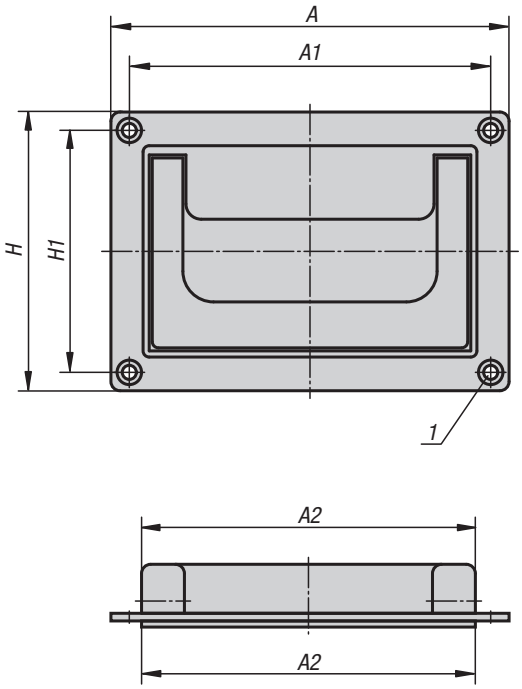
KIPP Recessed handles fold-down

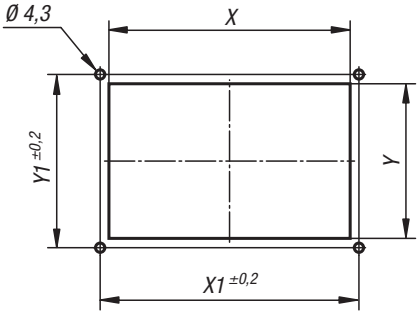
Order No. black anodized	Order No. natural anodized	Form	L	Mounting cutout	Load capacity N
K0239.10011	K0239.10013	A	100	107 x 73	500
K0239.11811	K0239.11813	A	118	125 x 73	500
K0239.16711	K0239.16713	A	167	174 x 73	500
K0239.10021	K0239.10023	B	100	107 x 73	500
K0239.11821	K0239.11823	B	118	125 x 73	500
K0239.16721	K0239.16723	B	167	174 x 73	500

Recessed handles

fold-down

19″







Material:
Die-cast aluminium.

Version:
Form A
handle snap locks into working
and resting positions.
Form B
handle swivels automatically
back into resting position. Tray and handle black or
light grey powder-coated, semi-matt.

Sample order:
K0240.05018411

Note:
With their modern design recessed fold-down handles can be used wherever solid and attractive handles are required.
Handles Form A snap into both resting and working positions.
Handles Form B swivel back into the resting position automatically after use.

Assembly:
The handles can be installed from the front or rear of the housing panel with the same housing cutout.

Drawing reference:
1) for countersunk screws M4

KIPP Recessed handles fold-down

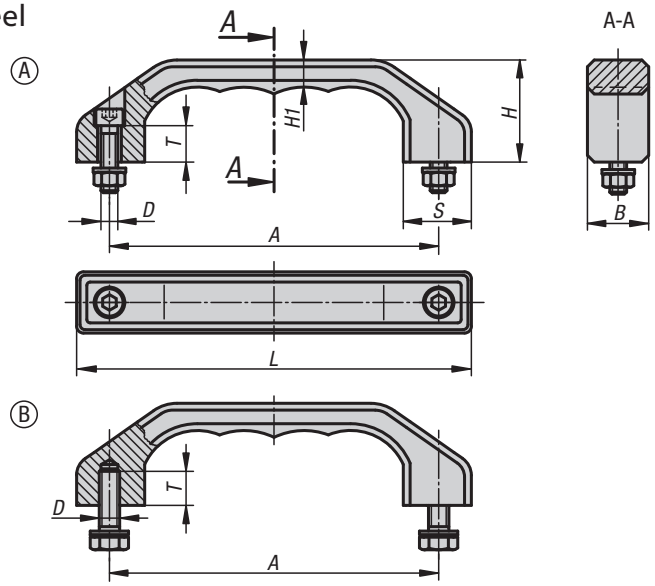
Order No.	Form	Version	A	A1	A2	B	H	H1	H2	X	X1	Y	Y1	Load capacity N
K0240.07911811	A	black powder-coated	130	118	109	48	91	79	69	110	118	70,5	79	500
K0240.05018411	A	black powder-coated	200	184	170	51	80	50	72	171	184	73	50	500
K0240.07911812	A	light grey powder-coated	130	118	109	48	91	79	69	110	118	70,5	79	500
K0240.05018412	A	light grey powder-coated	200	184	170	51	80	50	72	171	184	73	50	500
K0240.07911821	B	black powder-coated	130	118	109	48	91	79	69	110	118	70,5	79	500
K0240.05018421	B	black powder-coated	200	184	170	51	80	50	72	171	184	73	50	500
K0240.07911822	B	light grey powder-coated	130	118	109	48	91	79	69	110	118	70,5	79	500
K0240.05018422	B	light grey powder-coated	200	184	170	51	80	50	72	171	184	73	50	500

K0198

Pull handles

stainless steel







Material:
Investment cast stainless steel 1.4308.
Fasteners made of 1.4301.

Version:
Abrasive cleaned and matt gloss electropolished.

Sample order:
K0198.140081

Assembly:
Form A from the front.
Form B from the rear.

KIPP Pull handles stainless steel

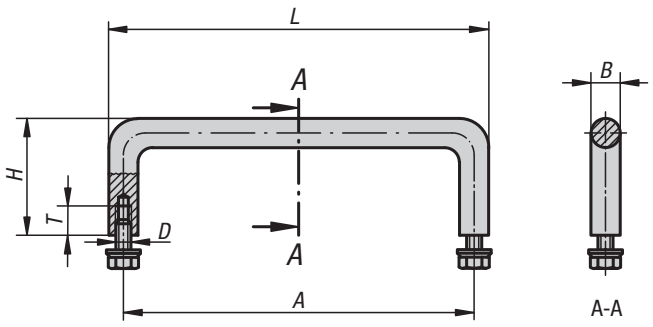
Order No.	Form	A	B	D	H	H1	L	S	T	Load capacity N
K0198.140081	A	140	25	M8x30	45	12	170	28	15	1000
K0198.180101	A	180	32	M10x40	58	15	218	36	18	1000
K0198.140082	B	140	25	M8x18	45	12	170	28	15	1000
K0198.180102	B	180	32	M10x20	58	15	218	36	18	1000

K0206

Pull handles

stainless steel







Material:
Pull handle stainless steel 1.4404.
Fastening material A4 grade.

Version:
Semi-gloss vibratory ground.

Sample order:
K0206.120

Note:
Stainless steel pull handles are used mainly on equipment in the medical and food industry as well as in laboratories and neuclear technology.

Assembly:
From the rear.

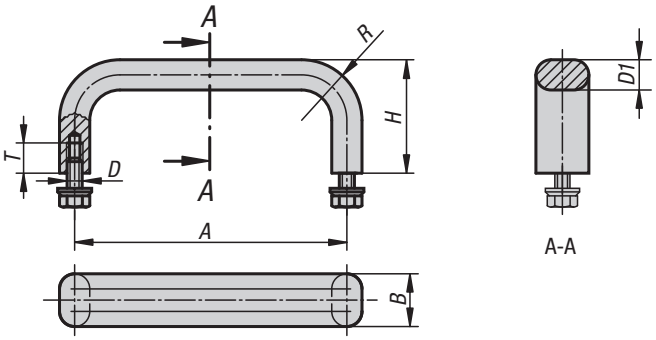
KIPP Pull handles stainless steel

Order No.	Surface	A	B	D	H	L	T	Load capacity N
K0206.100	semi-gloss vibratory ground	100	8	M5x10	35	108	10	1000
K0206.120	semi-gloss vibratory ground	120	10	M5x10	40	130	10	1000
K0206.250	semi-gloss vibratory ground	250	10	M5x10	40	260	10	1000
K0206.350	semi-gloss vibratory ground	350	10	M5x10	40	360	10	1000

Pull handles

stainless steel





Material:
Handle stainless steel 1.4305,
Fastening material 1.4301

Version:
Semi-gloss tumbled.

Sample order:
K0208.10005

Assembly:
From the rear.

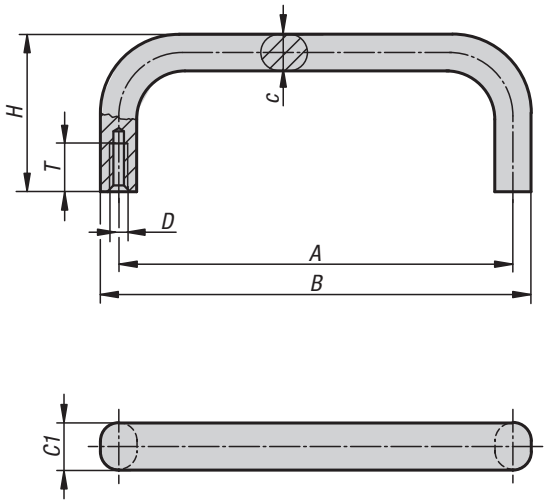
KIPP Pull handles stainless steel

Order No.	A	B	D	D1	H	R	T	Load capacity N
K0208.10005	100	12	M5x10	8	40	22	10	1000
K0208.12005	120	12	M5x10	8	40	22	10	1000
K0208.15005	150	12	M5x10	8	40	22	10	1000
K0208.18005	180	12	M5x10	8	40	22	10	1000
K0208.25005	250	12	M5x10	8	40	22	10	1000
K0208.10006	100	19,5	M6x12	10	45	24	12	1000
K0208.12006	120	19,5	M6x12	10	45	24	12	1000
K0208.15006	150	19,5	M6x12	10	45	24	12	1000
K0208.18006	180	19,5	M6x12	10	45	24	12	1000
K0208.25006	250	19,5	M6x12	10	45	24	12	1000

Pull handles

stainless steel





Material:
Stainless steel 1.4301.

Version:
Semi-gloss tumbled.

Sample order:
K1086.1001005

Assembly:
From the rear.

KIPP Pull handles stainless steel

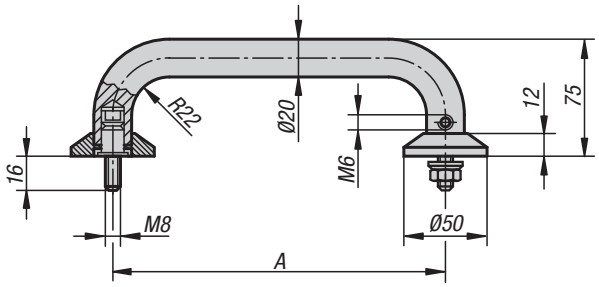
Order No.	A	B	C	C1	D	H	T	Load capacity N
K1086.1000805	100	108	8	12	M5	39	10	1000
K1086.1200805	120	128	8	12	M5	39	10	1000
K1086.1001005	100	110	10	15	M5	39	10	1000
K1086.1501005	150	160	10	15	M5	39	10	1000
K1086.1801005	180	190	10	15	M5	39	10	1000

Pull handles

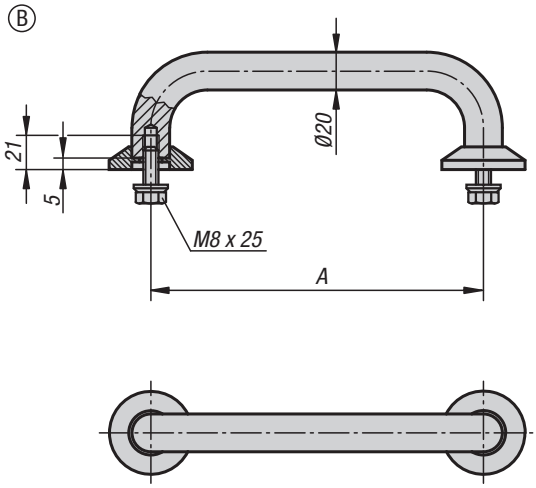
stainless steel



Ⓐ



Ⓑ



Material:
Handle stainless steel 1.4305
Fasteners made of 1.4301

Version:
Ground and satin brushed finish.

Sample order:
K0215.2001

Note:
These stainless steel pull handles are ideal for all technical applications where highest load and high chemical or corrosive resistance is required.

Drawing reference:
Form A
fastening from the front.
Form B
fastening from the rear.

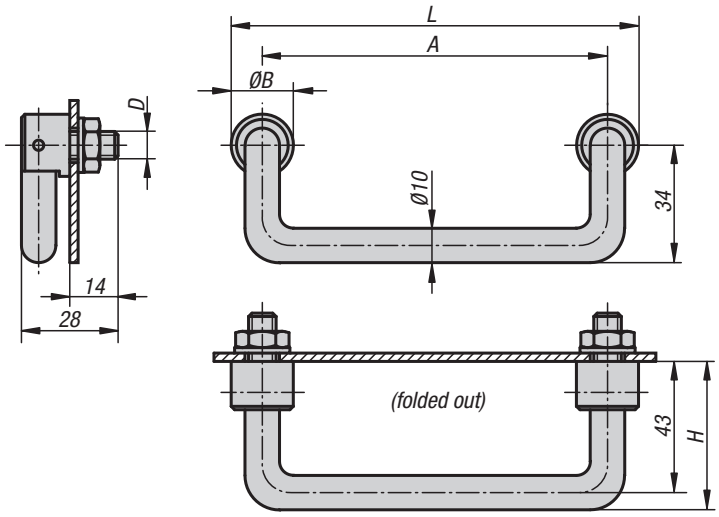
KIPP Pull handles stainless steel

Order No.	Form	A	Load capacity N
K0215.2001	A	200	1000
K0215.2501	A	250	1000
K0215.2002	B	200	1000
K0215.2502	B	250	1000

Pull handles

fold-down





Material:
Steel or 1.4305 stainless steel

Version:
Steel version:
Surface finely ground and high-gloss chromed or with a smooth plastic cover on the grip.

Stainless steel version:
Surface semi-gloss score-free vibratory ground.

Sample order:
K0218.1201

Note:
Steel or stainless steel fastening material is provided.
Spring lock in both end positions.

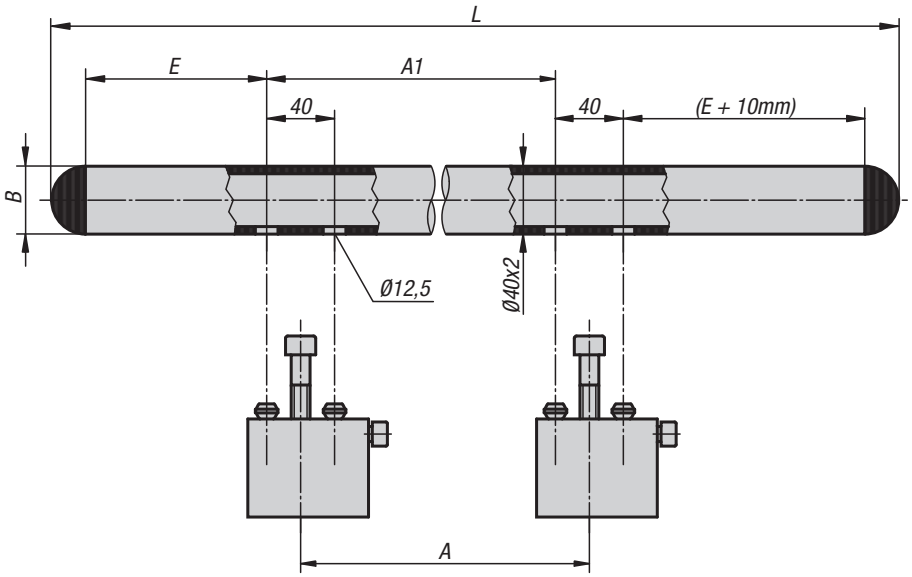
Assembly:
From the rear.

KIPP Pull handles fold-down

Order No. steel	Order No. steel with plastic cover	Order No. stainless steel	A	B	D	H	L	Load capacity N
K0218.1001	**K0218.1002**	**K0218.1003**	100	18	M10x1	48	118	500
K0218.1201	**K0218.1202**	**K0218.1203**	120	18	M10x1	48	138	500
K0218.1801	**K0218.1802**	**K0218.1803**	180	18	M10x1	48	198	500

Tubular handles





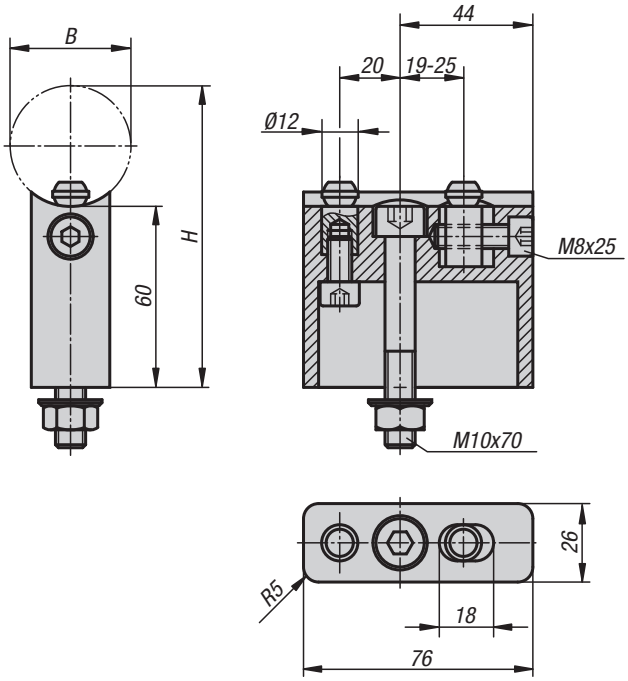
Material:
Grip stainless steel 1.4301.
Legs die-cast aluminium.
End caps glass-bead reinforced plastic.
Screws and locking pins steel.

Version:
Grip finely ground.
Legs black powder-coated.
End cap black.
Screws and pins galvanized and chromed.

Sample order:
K0225.0600101

Note:
Heavy duty tubular pull handles for machine and plant construction. Easy mounting from the front. Adjustable leg spacing by the same grip length.

Leg locking diagram:

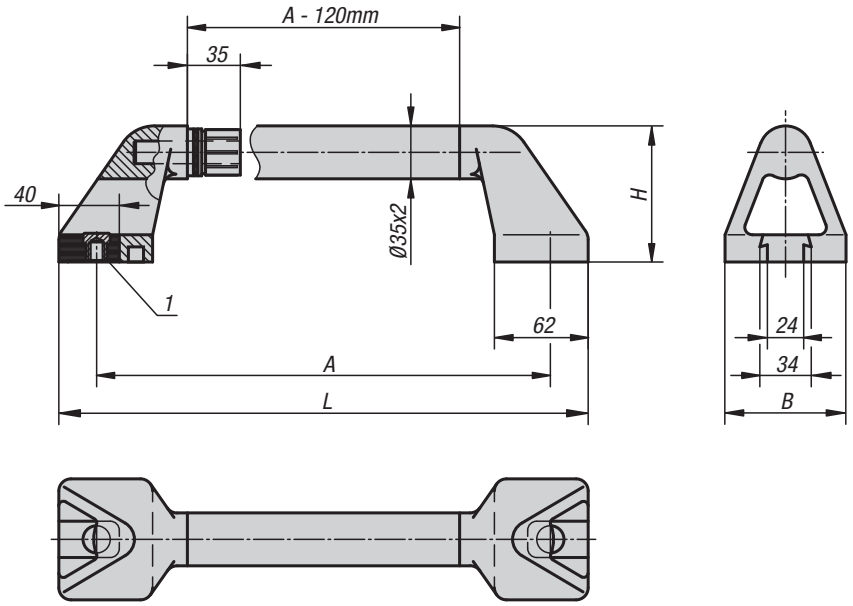


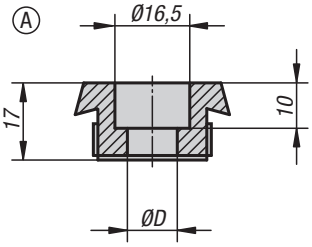
KIPP Tubular handles

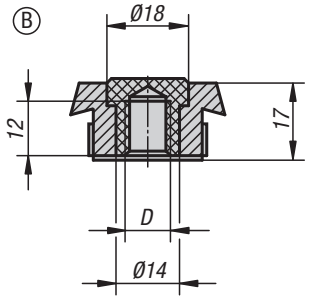
Order No.	A	A1	B	E	H	L	Load capacity N
K0225.0600101	380	380	40	85	100	640	1000
K0225.0700101	480	480	40	85	100	740	1000
K0225.0800101	500	500	40	125	100	840	1000
K0225.0900101	600	600	40	125	100	940	1000
K0225.1000101	700	700	40	125	100	940	1000

Tubular handles









Material:
Legs glass-bead reinforced thermoplastic.
Grip stainless steel 1.4301.
Inserts stainless steel 1.4305.

Version:
Legs fine structured, black.
Grip fine ground.
Inserts fine turned.

Sample order:
K0226.300101

Note:
Locking webs allow a precision fit of the tube on the plastic leg boss.
Splash-proof with O-ring seals.
Different fastening inserts allow mounting from the front, rear or with each other.
Handles with through hole inserts (Form A) are supplied with stainless steel fasteners.
Handles with tapped inserts (Form B) are supplied without fasteners.

Drawing reference:
Form A: screw head insert
Form B: threaded insert
1) Screw head insert (A) or threaded insert (B).

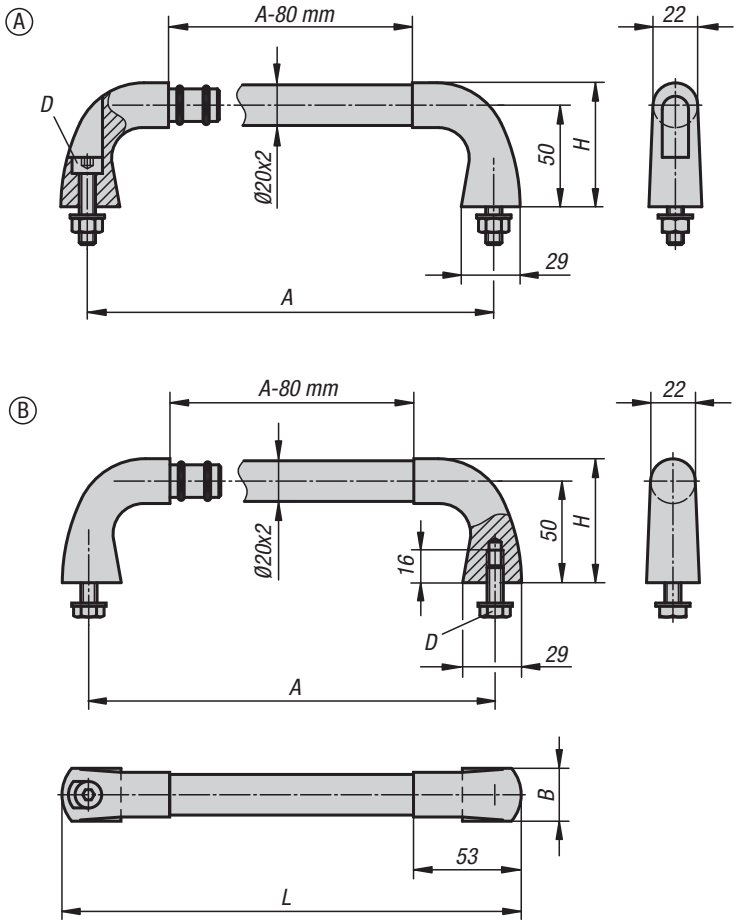
KIPP Tubular handles

Order No.	Form	A	B	D	H	L	Load capacity N
K0226.300101	A	300	80	11	90	350	1000
K0226.350101	A	350	80	11	90	400	1000
K0226.400101	A	400	80	11	90	450	1000
K0226.500101	A	500	80	11	90	550	1000
K0226.600101	A	600	80	11	90	650	1000
K0226.300102	B	300	80	M10	90	350	1000
K0226.350102	B	350	80	M10	90	400	1000
K0226.400102	B	400	80	M10	90	450	1000
K0226.500102	B	500	80	M10	90	550	1000
K0226.600102	B	600	80	M10	90	650	1000

Tubular handles

stainless steel





Material:
Grip and fasteners stainless steel 1.4301,
Legs investment cast 1.4581

Version:
Grip finely ground or with ribbed black plastic sleeve.
Legs abrasive cleaned and matt-gloss electropolished.

Sample order:
K0227.200081

Note:
Socket head screws with nuts and washers are supplied for handles Form A.
Hexagon head screws and suitable washers are supplied for handles Form B.

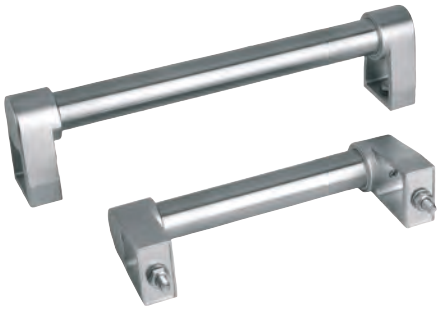
Assembly:
Form A from the front.
Form B from the rear.

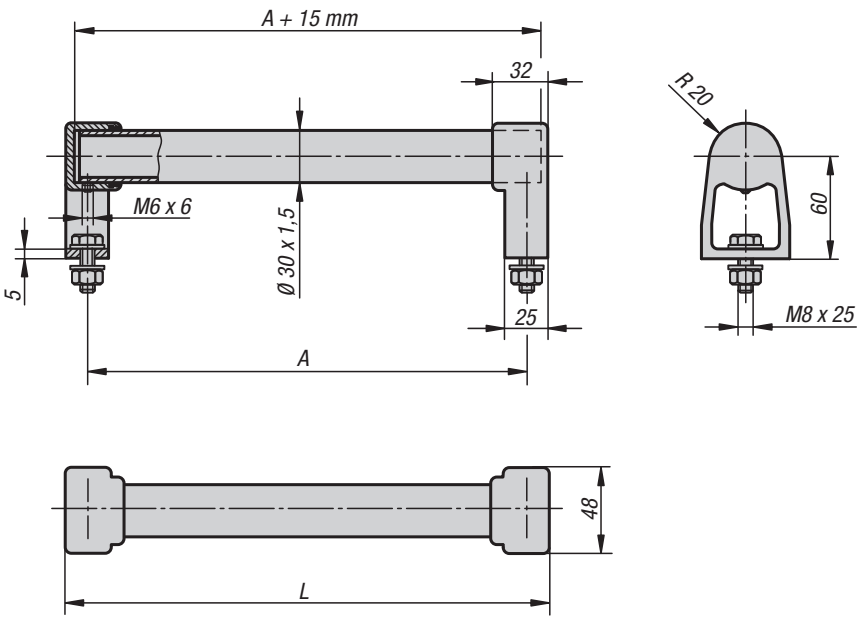
KIPP Tubular handles stainless steel

Order No.	Form	Main colour	A	B	D	H	L	Load capacity N
K0227.200081	A	ground	200	26	M8x35	60	226	1000
K0227.300081	A	ground	300	26	M8x35	60	326	1000
K0227.400081	A	ground	400	26	M8x35	60	426	1000
K0227.200082	A	black plastic ribbed	200	26	M8x35	60	226	1000
K0227.300082	A	black plastic ribbed	300	26	M8x35	60	326	1000
K0227.400082	A	black plastic ribbed	400	26	M8x35	60	426	1000
K0227.200083	B	ground	200	26	M8x20	60	226	1000
K0227.300083	B	ground	300	26	M8x20	60	326	1000
K0227.400083	B	ground	400	26	M8x20	60	426	1000
K0227.200084	B	black plastic ribbed	200	26	M8x20	60	226	1000
K0227.300084	B	black plastic ribbed	300	26	M8x20	60	326	1000
K0227.400084	B	black plastic ribbed	400	26	M8x20	60	426	1000

Tubular handles

stainless steel





Material:
Grip stainless steel 1.4301.
Legs precision cast G 4581.
Fastening material stainless steel 1.4301.
Clamping and sealing rings food-grade silicone rubber.
Long term temperature resistance -60 °C to +200 °C.

Version:
Grip finely ground.
Legs blasted and semi-gloss electropolished.

Sample order:
K0652.200301

Note:
General purpose self-assembly stainless steel tubular handles. Splashproof tube/leg connection. Additional tube clamping with socket head grub screws. For mounting from the front or rear. Easy to clean, especially suitable for the foodstuff industry.

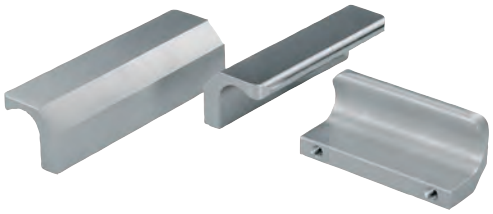
Assembly:
From the front.

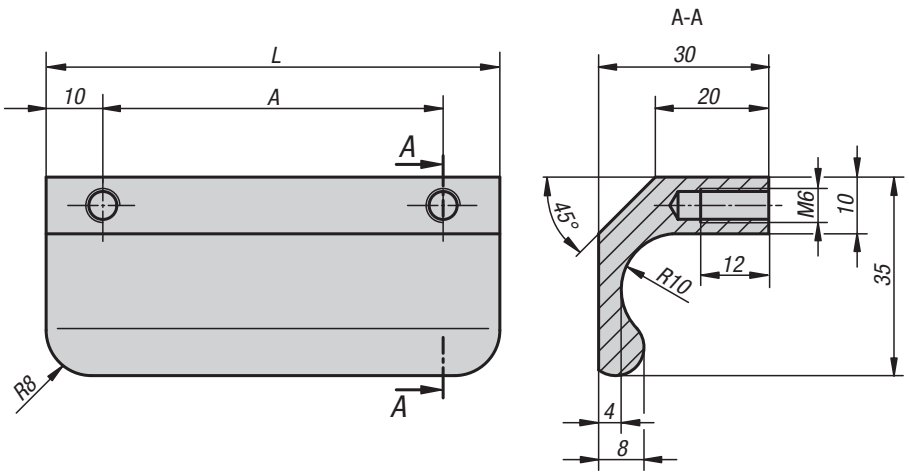
KIPP Tubular handles stainless steel

Order No.	A	L	Load capacity N
K0652.200301	200	225	1000
K0652.250301	250	275	1000
K0652.300301	300	325	1000
K0652.350301	350	375	1000
K0652.400301	400	425	1000
K0652.500301	500	525	1000

Ledge handles

stainless steel





Material:
Profile stainless steel 1.4404

Version:
Abrasive cleaned and matt-gloss electropolished.

Sample order:
K0233.06006

Assembly:
From the rear.

On request:
Any other lengths.

KIPP Ledge handles stainless steel

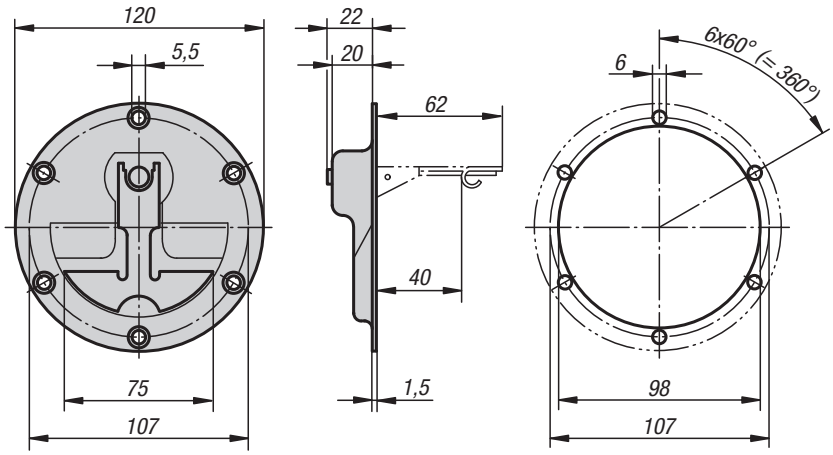
Order No.	A	L	Load capacity N
K0233.06006	60	80	1000
K0233.08006	80	100	1000
K0233.10006	100	120	1000
K0233.13006	130	150	1000

Recessed handles

fold-down stainless steel



Ⓐ



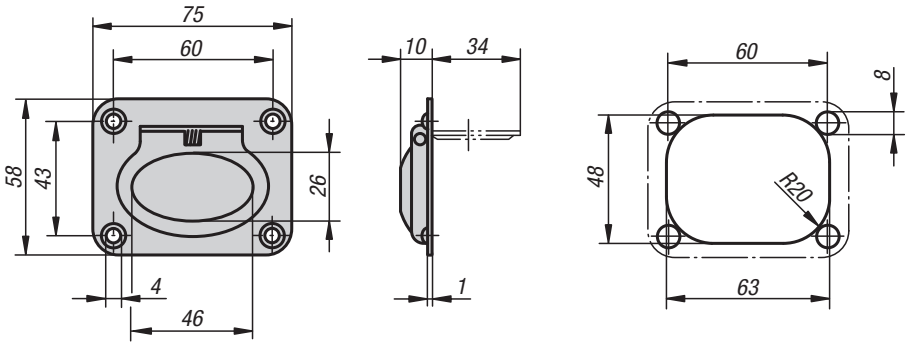
Material:
Stainless steel 1.4301.

Version:
High-gloss electropolished.

Sample order:
K0243.1120000

Note:
Stainless steel retractable grips with marginal installation depth. For base and mounting plates or drawers. With return spring. The grip automatically swivels back into its resting position after use.

Ⓑ

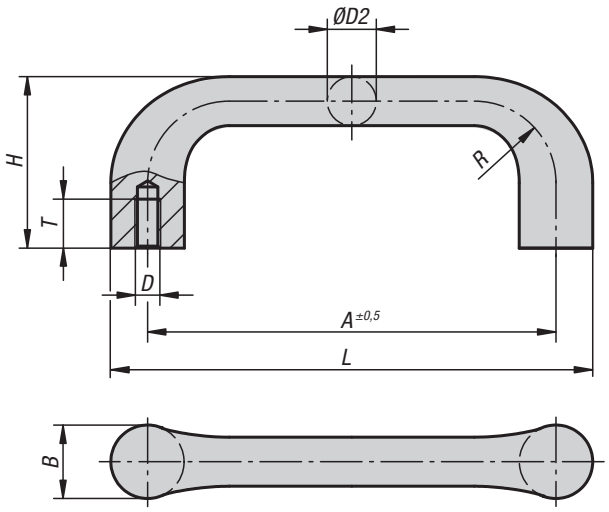


KIPP Recessed handles fold-down stainless steel

Order No.	Form	Load capacity N
K0243.1120000	A	200
K0243.2075058	B	200

K0186

Pull handles





Material:
GJS 400

Version:
Vibratory ground.
Black plastic-coated.
Contact surfaces machined.

Sample order:
K0186.12510

Assembly:
From the rear.

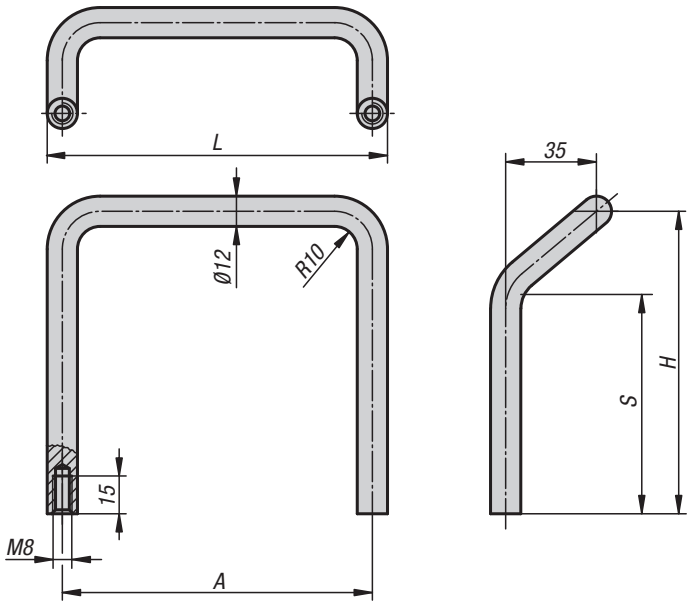
KIPP Pull handles

Order No. bright	Order No. black	A	B	D	D2	H	L	R	T	Load capacity N
K0186.10006	**K0186.100061**	100	18	M6	12	42	118	20	12	1000
K0186.11208	**K0186.112081**	112	20	M8	14	47	132	22	15	1000
K0186.12510	**K0186.125101**	125	22	M10	16	53	147	24	18	1000
K0186.14012	**K0186.140121**	140	25	M12	18	59	165	26	20	1000

K0207

Pull handles

angled





Material:
Round steel

Version:
Finely ground and high-gloss chrome-plated.

Sample order:
K0207.06008

Assembly:
From the rear.

KIPP Pull handles angled

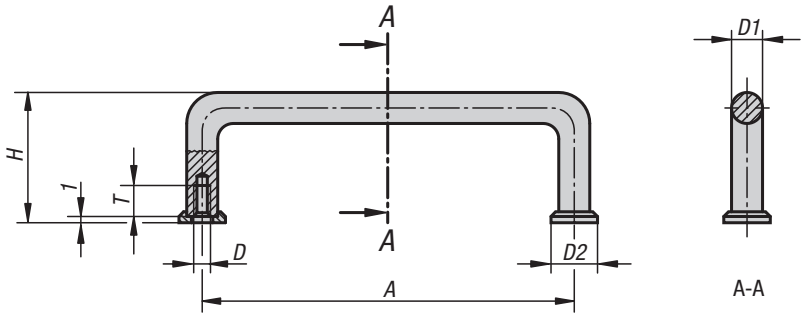
Order No.	A	H	L	S	Load capacity N
K0207.06008	120	60	132	27	1000
K0207.12008	120	120	132	87	1000

Pull handles

high-gloss chromed

19″





Material:
Steel.

Version:
Finely ground and high-gloss chromed

Sample order:
K0214.10204

Note:
These pull handles are used primarily on optical devices, laboratory installations, audio, video and hi-fi equipment, etc. The end washers are supplied loose.

Assembly:
From the rear.

On request:
Other surface finishes.

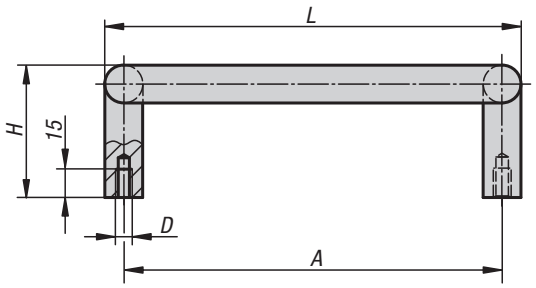
KIPP Pull handles high-gloss chromed

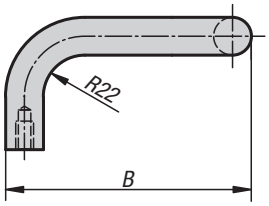
Order No.	A	D	D1	D2	H	T	Load capacity N
K0214.03203	32	M3	5	8	21	6	1000
K0214.04203	42	M3	5	8	25	6	1000
K0214.05503	55	M3	5	8	25	6	1000
K0214.07603	76	M3	5	8	25	6	1000
K0214.08803	88	M3	5	8	25	6	1000
K0214.03204	32	M4	8	12,5	33	8	1000
K0214.05504	55	M4	8	12,5	33	8	1000
K0214.06404	64	M4	8	12,5	33	8	1000
K0214.08804	88	M4	8	12,5	33	8	1000
K0214.09604	96	M4	8	12,5	33	8	1000
K0214.09804	98	M4	8	12,5	33	8	1000
K0214.10204	102	M4	8	12,5	33	8	1000
K0214.12004	120	M4	8	12,5	33	8	1000
K0214.12804	128	M4	8	12,5	33	8	1000
K0214.13604	136	M4	8	12,5	33	8	1000
K0214.05505	55	M5	10	15	41	10	1000
K0214.08805	88	M5	10	15	41	10	1000
K0214.10005	100	M5	10	15	41	10	1000
K0214.10205	102	M5	10	15	41	10	1000
K0214.11505	115	M5	10	15	41	10	1000
K0214.12005	120	M5	10	15	41	10	1000
K0214.13605	136	M5	10	15	41	10	1000
K0214.18005	180	M5	10	15	41	10	1000
K0214.20005	200	M5	10	15	41	10	1000
K0214.23505	235	M5	10	15	41	10	1000
K0214.25005	250	M5	10	15	41	10	1000

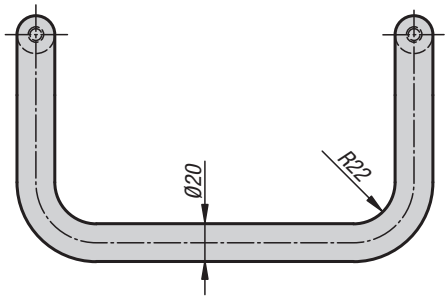
Pull handles



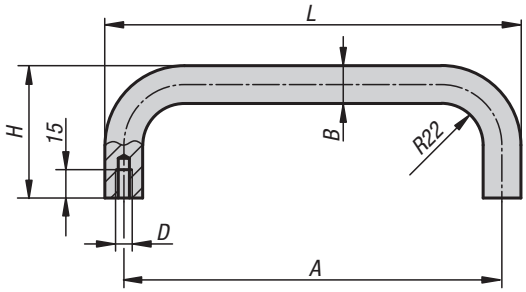
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Material:
Round steel

Version:
Ground, brushed and matt-chromed or black powder-coated with fine texture

Sample order:
K0230.20081

Note:
Available as straight or right-angled handle.

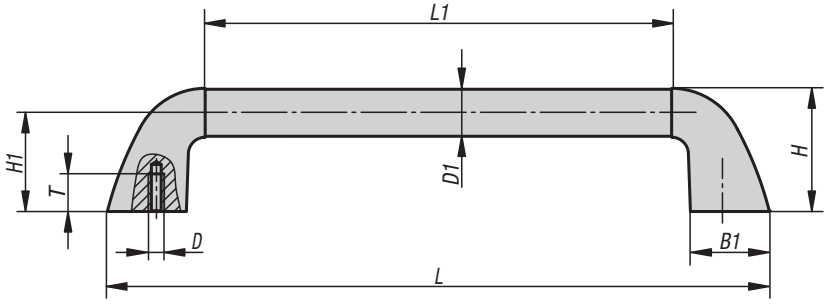
Assembly:
From the rear.

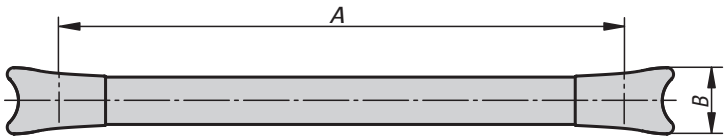
KIPP Pull handles

Order No.	Form	Main colour	A	B	D	H	L	Load capacity N
K0230.200081	A	matt chromed	200	130	M8	70	220	1000
K0230.350081	A	matt chromed	350	130	M8	70	370	1000
K0230.200082	A	black powder-coated	200	130	M8	70	220	1000
K0230.350082	A	black powder-coated	350	130	M8	70	370	1000
K0230.200083	B	matt chromed	200	20	M8	70	220	1000
K0230.250083	B	matt chromed	250	20	M8	70	270	1000
K0230.300083	B	matt chromed	300	20	M8	70	320	1000
K0230.350083	B	matt chromed	350	20	M8	70	370	1000
K0230.200084	B	black powder-coated	200	20	M8	70	220	1000
K0230.250084	B	black powder-coated	250	20	M8	70	270	1000
K0230.300084	B	black powder-coated	300	20	M8	70	320	1000
K0230.350084	B	black powder-coated	350	20	M8	70	370	1000

Tubular handles carbon







Material:
Grip legs stainless steel 1.4308.
Tubular grip carbon fibre reinforced plastic (CFP).

Version:
Grip legs polished.
Tubular grip CFP composition, clear varnished.

Sample order:
K0781.250251

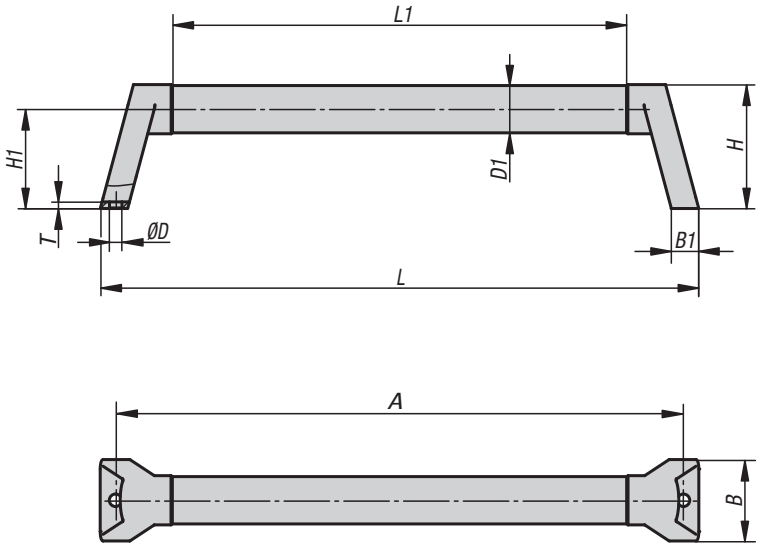
Note:
The grip is fastened using stainless steel DIN EN ISO 4762 socket head screws.

KIPP Tubular handles carbon

Order No.	A	B	B1	D	D1	H	H1	L	L1	T	Load capacity N
K0781.250251	250	34,8	41,6	M6	25	64	51	301	198	20	1000
K0781.300251	300	34,8	41,6	M6	25	64	51	351	248	20	1000
K0781.350251	350	34,8	41,6	M6	25	64	51	401	298	20	1000
K0781.350351	350	47,7	55	M6	35	84	66	424	286	20	1000
K0781.400351	400	47,7	55	M6	35	84	66	474	336	20	1000
K0781.450351	450	47,7	55	M6	35	84	66	524	386	20	1000

Tubular handles carbon





Material:
Grip legs stainless steel 1.4308.
Tubular grip carbon fibre reinforced plastic (CFP).

Version:
Grip legs polished.
Tubular grip CFP composition, clear varnished.

Sample order:
K0782.250251

Note:
The grip is fastened using stainless steel DIN EN ISO 4017 hexagon head screws.

KIPP Tubular handles carbon

Order No.	A	B	B1	D	D1	H	H1	L	L1	T	Load capacity N
K0782.250251	250	43	14,5	6,6	25	65,5	52,5	266	190	3,5	1000
K0782.300251	300	43	14,5	6,6	25	65,5	52,5	316	240	3,5	1000
K0782.350251	350	43	14,5	6,6	25	65,5	52,5	366	290	3,5	1000
K0782.350351	350	57,7	18,6	6,6	35	85,5	67,5	371	270	4,5	1000
K0782.400351	400	57,7	18,6	6,6	35	85,5	67,5	421	320	4,5	1000
K0782.450351	450	57,7	18,6	6,6	35	85,5	67,5	471	370	4,5	1000

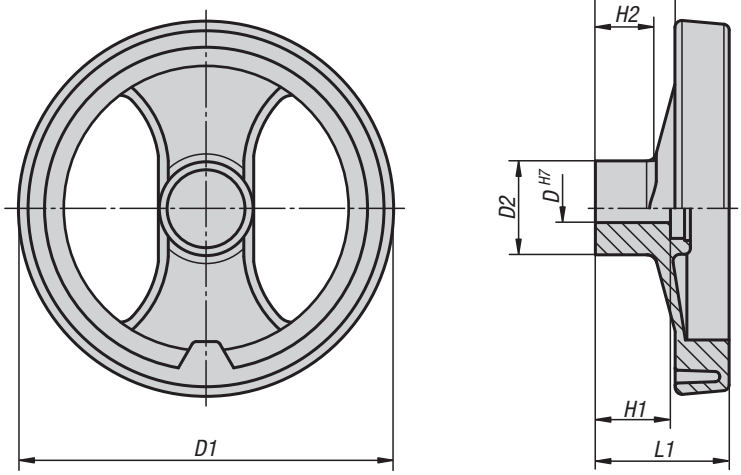
Handwheels, crank handles, position indicators



Handwheels 2-spoke

plastic





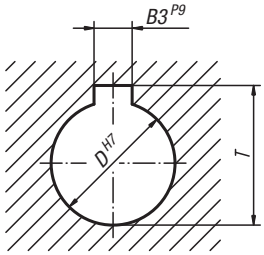
Material:
Handwheel reinforced and stabilised polyamide.
Centre plugs polyamide.
Tapped bush steel.

Version:
Handwheel oil and grease resistant, black (RAL 9011), satin finish.
Centre plugs, grey (RAL 7035 cod. 13).
Through bush black oxidised.

Sample order:
K0725.0080X08

On request:
Other cap colours,
special versions.

DIN 6885-1



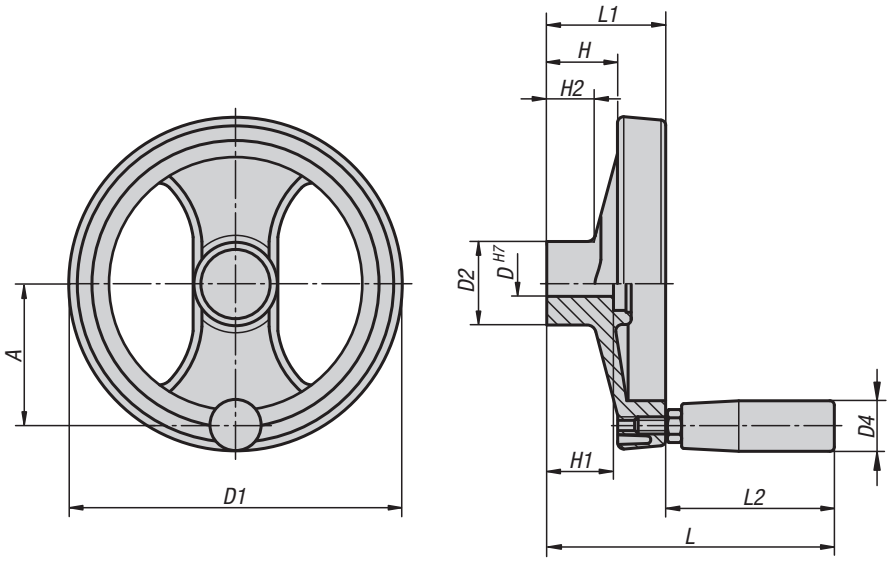
KIPP Handwheels 2-spoke, plastic

Order No. without slot	Order No. with slot	D	D1	D2	H	H1	H2	L1	B3	T
K0725.0080X08	**K0725.1080X08**	8	80	24,5	20	20	16	34	-/2	-/9
K0725.0080X10	**K0725.1080X10**	10	80	24,5	20	20	16	34	-/3	-/11,4
K0725.0100X10	**K0725.1100X10**	10	99	28	25,5	24	20	42	-/3	-/11,4
K0725.0100X12	**K0725.1100X12**	12	99	28	25,5	24	20	42	-/4	-/13,8
K0725.0130X12	**K0725.1130X12**	12	129	32	30	24	21	50	-/4	-/13,8
K0725.0130X14	**K0725.1130X14**	14	129	32	30	24	21	50	-/5	-/16,3
K0725.0160X14	**K0725.1160X14**	14	159	40	33	32	22	57	-/5	-/16,3
K0725.0160X16	**K0725.1160X16**	16	159	40	33	32	22	57	-/5	-/18,3
K0725.0200X16	**K0725.1200X16**	16	198	51	31	32	17,5	60	-/5	-/18,3
K0725.0200X20	**K0725.1200X20**	20	198	51	31	32	17,5	60	-/6	-/22,8
K0725.0250X20	**K0725.1250X20**	20	252	55,5	39,5	36	24	71	-/6	-/22,8
K0725.0250X24	**K0725.1250X24**	24	252	55,5	39,5	36	24	71	-/8	-/27,3
K0725.0345X20	**K0725.1345X20**	20	346	67,5	42	32	24	79	-/6	-/22,8

Handwheels 2-spoke

plastic, with revolving grip





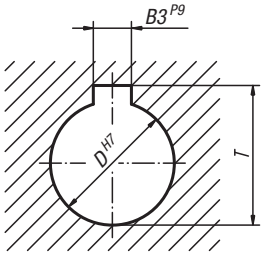
Material:
Handwheel reinforced and stabilised polyamide.
Centre plugs polyamide.
Tapped bush steel.
Tapped insert for cylinder grip brass.

Version:
Handwheel oil and grease resistant, black (RAL 9011), satin finish.
Centre plugs, grey (RAL 7035 cod. 13).
Through bush black oxidised.

Sample order:
K0725.4080X08

On request:
Other cap colours,
special versions.

DIN 6885-1



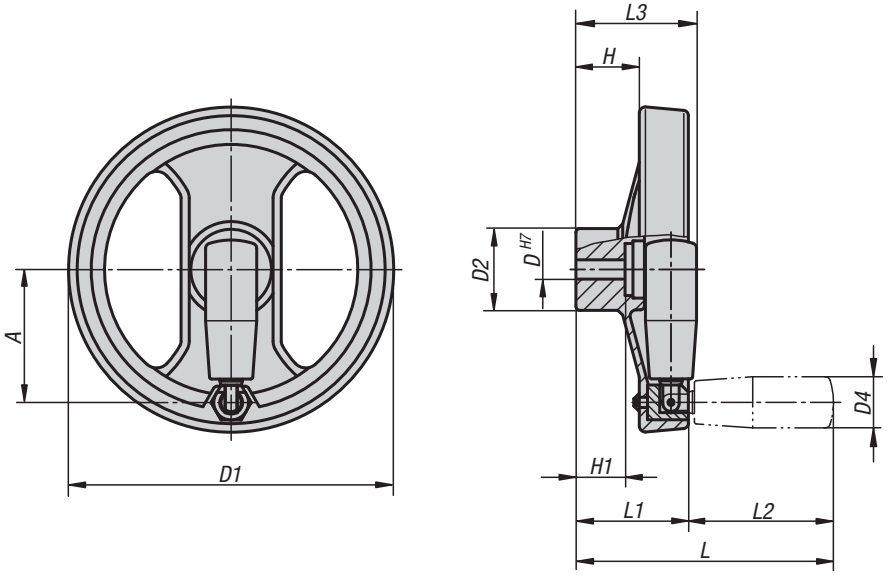
KIPP Handwheels 2-spoke, plastic, with revolving grip

Order No. without slot	Order No. with slot	D	D1	D2	D4	H	H1	H2	A	L	L1	L2	B3	T
K0725.4080X08	K0725.5080X08	8	80	24,5	20	20	20	16	30	85	34	51	-/2	-/9
K0725.4080X10	K0725.5080X10	10	80	24,5	20	20	20	16	30	85	34	51	-/3	-/11,4
K0725.4100X10	K0725.5100X10	10	99	28	20	25,5	24	20	38	93	43	51	-/3	-/11,4
K0725.4100X12	K0725.5100X12	12	99	28	20	25,5	24	20	38	93	43	51	-/4	-/13,8
K0725.4130X12	K0725.5130X12	12	129	32	23	30	24	21	55	112	50	62	-/4	-/13,8
K0725.4130X14	K0725.5130X14	14	129	32	23	30	24	21	55	112	50	62	-/5	-/16,3
K0725.4160X14	K0725.5160X14	14	159	40	23	33	32	22	66	119	57	62	-/5	-/16,3
K0725.4160X16	K0725.5160X16	16	159	40	23	33	32	22	66	119	57	62	-/5	-/18,3
K0725.4200X16	K0725.5200X16	16	198	51	26	31	32	17,5	82	141	60	81	-/5	-/18,3
K0725.4200X20	K0725.5200X20	20	198	51	26	31	32	17,5	82	141	60	81	-/6	-/22,8
K0725.4250X20	K0725.5250X20	20	252	55,5	27	39,5	36	24	113	163	71	92	-/6	-/22,8
K0725.4250X24	K0725.5250X24	24	252	55,5	27	39,5	36	24	113	163	71	92	-/8	-/27,3
K0725.4345X20	K0725.5345X20	20	346	67,5	27	42	32	24	146	171	79	92	-/6	-/22,8

Handwheels 2-spoke

plastic, with folding grip





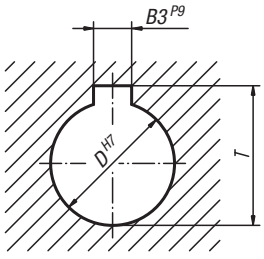
Material:
Handwheel reinforced and stabilised polyamide.
Centre plugs polyamide.
Tapped bush and insert for cylinder grip steel.

Version:
Handwheel oil and grease resistant, black (RAL 9011), satin finish.
Centre plugs, grey (RAL 7035 cod. 13).
Tapped bush and insert for folding grip black oxidised.

Sample order:
K0725.6130X12

On request:
Other cap colours, special versions.

DIN 6885-1



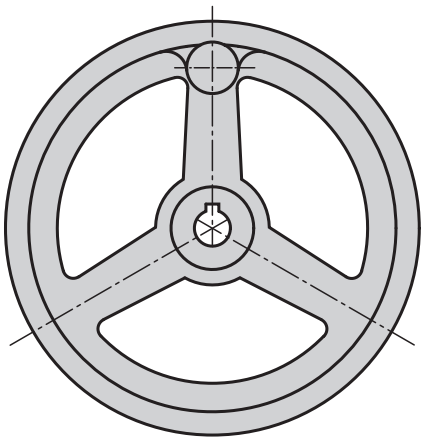
KIPP Handwheels 2-spoke, plastic, with folding grip

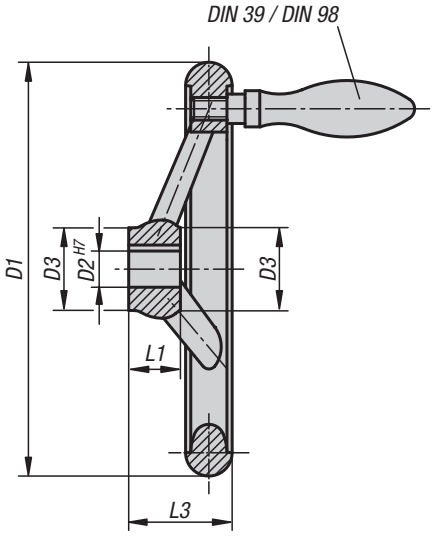
Order No. without slot	Order No. with slot	D	D1	D2	D4	A	H	H1	L	L1	L2	L3	B3	T
K0725.6130X12	K0725.7130X12	12	129	32	20	51	29	20	111	52	59	53	-/4	-/13,8
K0725.6130X14	K0725.7130X14	14	129	32	20	51	29	20	111	52	59	53	-/5	-/16,3
K0725.6160X14	K0725.7160X14	14	159	40	25	65	31	24	126	55	71	59	-/5	-/16,3
K0725.6160X16	K0725.7160X16	16	159	40	25	65	31	24	126	55	71	59	-/5	-/18,3
K0725.6200X16	K0725.7200X16	16	200	54,5	27	80	33	28	160	69	91	69	-/5	-/18,3
K0725.6200X20	K0725.7200X20	20	200	54,5	27	80	33	28	160	69	91	69	-/6	-/22,8
K0725.6345X20	K0725.7345X20	20	346	67,5	27	148	43,5	32	144	80	91	80	-/6	-/22,8

Notes

Handwheels

DIN 950 grey cast iron







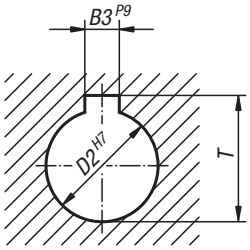
Material:
Handwheel grey cast iron.
Grip steel.

Version:
Wheel rim turned and polished.
Radial and axial run-out of rim < IT 12.

Sample order:
K0671.4080X10

On request:
Hubs with square socket or plastic-coated handwheels.

DIN 6885-1



KIPP Handwheels DIN 950 grey cast iron, without grip

Order No. without slot	Order No. with slot	D1	D2 series 1	D2 series 2	D3	L1	L3	B3 series 1	B3 series 2	T series 1	T series 2	No.of spokes
K0671.0080X10	**K0671.1080X10**	80	10	-	25	16	29	3	-	11,4	-	3
K0671.0080X12	**K0671.1080X12**	80	-	12	25	16	29	-	4	-	13,8	3
K0671.0100X10	**K0671.1100X10**	100	10	-	26	17	33	3	-	11,4	-	3
K0671.0100X12	**K0671.1100X12**	100	-	12	26	17	33	-	4	-	13,8	3
K0671.0125X12	**K0671.1125X12**	125	12	-	33	18	36	4	-	13,8	-	3
K0671.0125X14	**K0671.1125X14**	125	-	14	33	18	36	-	5	-	16,3	3
K0671.0140X14	**K0671.1140X14**	140	14	-	33	19	39	5	-	16,3	-	3
K0671.0140X16	**K0671.1140X16**	140	-	16	33	19	39	-	5	-	18,3	3
K0671.0160X14	**K0671.1160X14**	160	14	-	37	20	40	5	-	16,3	-	3
K0671.0160X16	**K0671.1160X16**	160	-	16	37	20	40	-	5	-	18,3	3
K0671.0180X16	**K0671.1180X16**	180	16	-	36	22	43	5	-	18,3	-	3
K0671.0180X18	**K0671.1180X18**	180	-	18	36	22	43	-	6	-	20,8	3
K0671.0200X18	**K0671.1200X18**	200	18	-	38	24	45	6	-	20,8	-	3
K0671.0200X22	**K0671.1200X22**	200	-	22	38	24	45	-	6	-	24,8	3
K0671.0250X22	**K0671.1250X22**	250	22	-	46	28	50	6	-	24,8	-	5
K0671.0250X26	**K0671.1250X26**	250	-	26	46	28	50	-	8	-	29,3	5
K0671.0315X26	**K0671.1315X26**	315	26	-	54	33	56	8	-	29,3	-	5
K0671.0315X30	**K0671.1315X30**	315	-	30	54	33	56	-	8	-	33,3	5
K0671.0400X30	**K0671.1400X30**	400	30	-	68	38	63	8	-	33,3	-	5
K0671.0400X34	**K0671.1400X34**	400	-	34	68	38	63	-	10	-	37,3	5
K0671.0500X34	**K0671.1500X34**	500	34	-	79	45	72	10	-	37,3	-	5
K0671.0500X40	**K0671.1500X40**	500	-	40	79	45	72	-	12	-	43,3	5

Handwheels

DIN 950 grey cast iron

KIPP Handwheels DIN 950 grey cast iron, with fixed grip

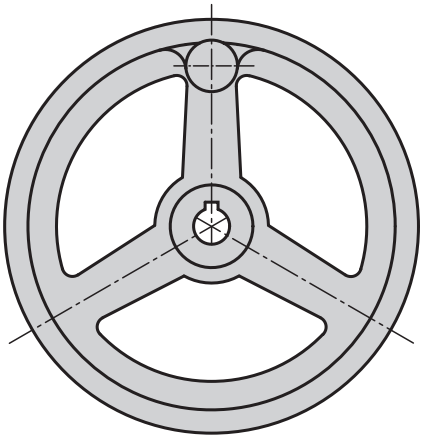
Order No. without slot	Order No. with slot	D1	D2 series 1	D2 series 2	D3	L1	L3	B3 series 1	B3 series 2	T series 1	T series 2	No.of spokes	fixed grip DIN 39 Form E
K0671.2080X10	K0671.3080X10	80	10	-	25	16	29	3	-	11,4	-	3	ø16 x M6 x 50
K0671.2080X12	K0671.3080X12	80	-	12	25	16	29	-	4	-	13,8	3	ø16 x M6 x 50
K0671.2100X10	K0671.3100X10	100	10	-	26	17	33	3	-	11,4	-	3	ø16 x M6 x 50
K0671.2100X12	K0671.3100X12	100	-	12	26	17	33	-	4	-	13,8	3	ø16 x M6 x 50
K0671.2125X12	K0671.3125X12	125	12	-	33	18	36	4	-	13,8	-	3	ø20 x M8 x 64
K0671.2125X14	K0671.3125X14	125	-	14	33	18	36	-	5	-	16,3	3	ø20 x M8 x 64
K0671.2140X14	K0671.3140X14	140	14	-	33	19	39	5	-	16,3	-	3	ø20 x M8 x 64
K0671.2140X16	K0671.3140X16	140	-	16	33	19	39	-	5	-	18,3	3	ø20 x M8 x 64
K0671.2160X14	K0671.3160X14	160	14	-	37	20	40	5	-	16,3	-	3	ø25 x M10 x 80
K0671.2160X16	K0671.3160X16	160	-	16	37	20	40	-	5	-	18,3	3	ø25 x M10 x 80
K0671.2180X16	K0671.3180X16	180	16	-	36	22	43	5	-	18,3	-	3	ø25 x M10 x 80
K0671.2180X18	K0671.3180X18	180	-	18	36	22	43	-	6	-	20,8	3	ø25 x M10 x 80
K0671.2200X18	K0671.3200X18	200	18	-	38	24	45	6	-	20,8	-	3	ø25 x M10 x 80
K0671.2200X22	K0671.3200X22	200	-	22	38	24	45	-	6	-	24,8	3	ø25 x M10 x 80
K0671.2250X22	K0671.3250X22	250	22	-	46	28	50	6	-	24,8	-	5	ø32 x M12 x 100
K0671.2250X26	K0671.3250X26	250	-	26	46	28	50	-	8	-	29,3	5	ø32 x M12 x 100
K0671.2315X26	K0671.3315X26	315	26	-	54	33	56	8	-	29,3	-	5	ø32 x M12 x 100
K0671.2315X30	K0671.3315X30	315	-	30	54	33	56	-	8	-	33,3	5	ø32 x M12 x 100
K0671.2400X30	K0671.3400X30	400	30	-	68	38	63	8	-	33,3	-	5	ø36 x M16 x 112
K0671.2400X34	K0671.3400X34	400	-	34	68	38	63	-	10	-	37,3	5	ø36 x M16 x 112
K0671.2500X34	K0671.3500X34	500	34	-	79	45	72	10	-	37,3	-	5	ø36 x M16 x 112
K0671.2500X40	K0671.3500X40	500	-	40	79	45	72	-	12	-	43,3	5	ø36 x M16 x 112

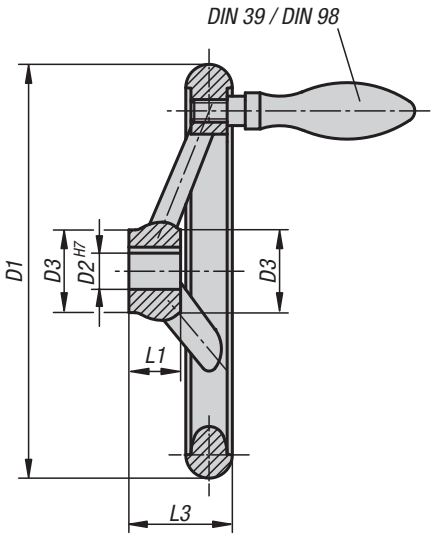
KIPP Handwheels DIN 950 grey cast iron, with revolving grip

Order No. without slot	Order No. with slot	D1	D2 series 1	D2 series 2	D3	L1	L3	B3 series 1	B3 series 2	T series 1	T series 2	No.of spokes	revolving grip DIN 98 Form E
K0671.4080X10	K0671.5080X10	80	10	-	25	16	29	3	-	11,4	-	3	ø16 x M6 x 54.5
K0671.4080X12	K0671.5080X12	80	-	12	25	16	29	-	4	-	13,8	3	ø16 x M6 x 54.5
K0671.4100X10	K0671.5100X10	100	10	-	26	17	33	3	-	11,4	-	3	ø16 x M6 x 54.5
K0671.4100X12	K0671.5100X12	100	-	12	26	17	33	-	4	-	13,8	3	ø16 x M6 x 54.5
K0671.4125X12	K0671.5125X12	125	12	-	33	18	36	4	-	13,8	-	3	ø20 x M8 x 67
K0671.4125X14	K0671.5125X14	125	-	14	33	18	36	-	5	-	16,3	3	ø20 x M8 x 67
K0671.4140X14	K0671.5140X14	140	14	-	33	19	39	5	-	16,3	-	3	ø20 x M8 x 67
K0671.4140X16	K0671.5140X16	140	-	16	33	19	39	-	5	-	18,3	3	ø20 x M8 x 67
K0671.4160X14	K0671.5160X14	160	14	-	37	20	40	5	-	16,3	-	3	ø25 x M10 x 83
K0671.4160X16	K0671.5160X16	160	-	16	37	20	40	-	5	-	18,3	3	ø25 x M10 x 83
K0671.4180X16	K0671.5180X16	180	16	-	36	22	43	5	-	18,3	-	3	ø25 x M10 x 83
K0671.4180X18	K0671.5180X18	180	-	18	36	22	43	-	6	-	20,8	3	ø25 x M10 x 83
K0671.4200X18	K0671.5200X18	200	18	-	38	24	45	6	-	20,8	-	3	ø25 x M10 x 83
K0671.4200X22	K0671.5200X22	200	-	22	38	24	45	-	6	-	24,8	3	ø25 x M10 x 83
K0671.4250X22	K0671.5250X22	250	22	-	46	28	50	6	-	24,8	-	5	ø32 x M12 x 105,5
K0671.4250X26	K0671.5250X26	250	-	26	46	28	50	-	8	-	29,3	5	ø32 x M12 x 105,5
K0671.4315X26	K0671.5315X26	315	26	-	54	33	56	8	-	29,3	-	5	ø32 x M12 x 105,5
K0671.4315X30	K0671.5315X30	315	-	30	54	33	56	-	8	-	33,3	5	ø32 x M12 x 105,5
K0671.4400X30	K0671.5400X30	400	30	-	68	38	63	8	-	33,3	-	5	ø36 x M16 x 117
K0671.4400X34	K0671.5400X34	400	-	34	68	38	63	-	10	-	37,3	5	ø36 x M16 x 117
K0671.4500X34	K0671.5500X34	500	34	-	79	45	72	10	-	37,3	-	5	ø36 x M16 x 117
K0671.4500X40	K0671.5500X40	500	-	40	79	45	72	-	12	-	43,3	5	ø36 x M16 x 117

Handwheels

DIN 950, aluminium







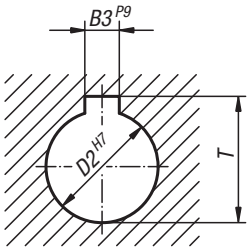
Material:
Handwheel aluminium.
Fixed grip aluminium, axle part steel, black oxidised.
Revolving grip aluminium, axle part galvanized and blue passivated steel.

Version:
Wheel rim turned and polished.
Radial and axial run-out of rim < IT 12.

Sample order:
K0160.4080X10

On request:
Hubs with square socket or plastic-coated handwheels.

DIN 6885-1



KIPP Handwheels DIN 950 aluminium, without grip

Order No. without slot	Order No. with slot	D1	D2 series 1	D2 series 2	D3	L1	L3	B3 series 1	B3 series 2	T series 1	T series 2	No.of spokes
K0160.0080X10	K0160.1080X10	80	10	-	25	16	29	3	-	11,4	-	3
K0160.0080X12	K0160.1080X12	80	-	12	25	16	29	-	4	-	13,8	3
K0160.0100X10	K0160.1100X10	100	10	-	29	17	33	3	-	11,4	-	3
K0160.0100X12	K0160.1100X12	100	-	12	29	17	33	-	4	-	13,8	3
K0160.0125X12	K0160.1125X12	125	12	-	31	18	36	4	-	13,8	-	3
K0160.0125X14	K0160.1125X14	125	-	14	31	18	36	-	5	-	16,3	3
K0160.0140X14	K0160.1140X14	140	14	-	36	19	39	5	-	16,3	-	3
K0160.0140X16	K0160.1140X16	140	-	16	36	19	39	-	5	-	18,3	3
K0160.0160X14	K0160.1160X14	160	14	-	36	20	40	5	-	16,3	-	3
K0160.0160X16	K0160.1160X16	160	-	16	36	20	40	-	5	-	18,3	3
K0160.0180X16	K0160.1180X16	180	16	-	37	22	43	5	-	18,3	-	3
K0160.0180X18	K0160.1180X18	180	-	18	37	22	43	-	6	-	20,8	3
K0160.0200X18	K0160.1200X18	200	18	-	43	24	45	6	-	20,8	-	3
K0160.0200X22	K0160.1200X22	200	-	22	43	24	45	-	6	-	24,8	3
K0160.0250X22	K0160.1250X22	250	22	-	49	28	50	6	-	24,8	-	5
K0160.0250X26	K0160.1250X26	250	-	26	49	28	50	-	8	-	29,3	5
K0160.0315X26	K0160.1315X26	315	26	-	54	33	56	8	-	29,3	-	5
K0160.0315X30	K0160.1315X30	315	-	30	54	33	56	-	8	-	33,3	5
K0160.0400X30	K0160.1400X30	400	30	-	65	38	63	8	-	33,3	-	5
K0160.0400X34	K0160.1400X34	400	-	34	65	38	63	-	10	-	37,3	5
K0160.0500X34	K0160.1500X34	500	34	-	79	45	72	10	-	37,3	-	5
K0160.0500X40	K0160.1500X40	500	-	40	79	45	72	-	12	-	43,3	5

Handwheels

DIN 950, aluminium

KIPP Handwheels DIN 950 aluminium, with fixed grip

Order No. without slot	Order No. with slot	D1	D2 series 1	D2 series 2	D3	L1	L3	B3 series 1	B3 series 2	T series 1	T series 2	No.of spokes	fixed grip DIN 39 Form E
K0160.2080X10	K0160.3080X10	80	10	-	25	16	29	3	-	11,4	-	3	ø16 x M6 x 50
K0160.2080X12	K0160.3080X12	80	-	12	25	16	29	-	4	-	13,8	3	ø16 x M6 x 50
K0160.2100X10	K0160.3100X10	100	10	-	29	17	33	3	-	11,4	-	3	ø16 x M6 x 50
K0160.2100X12	K0160.3100X12	100	-	12	29	17	33	-	4	-	13,8	3	ø16 x M6 x 50
K0160.2125X12	K0160.3125X12	125	12	-	31	18	36	4	-	13,8	-	3	ø20 x M8 x 64
K0160.2125X14	K0160.3125X14	125	-	14	31	18	36	-	5	-	16,3	3	ø20 x M8 x 64
K0160.2140X14	K0160.3140X14	140	14	-	36	19	39	5	-	16,3	-	3	ø20 x M8 x 64
K0160.2140X16	K0160.3140X16	140	-	16	36	19	39	-	5	-	18,3	3	ø20 x M8 x 64
K0160.2160X14	K0160.3160X14	160	14	-	36	20	40	5	-	16,3	-	3	ø25 x M10 x 80
K0160.2160X16	K0160.3160X16	160	-	16	36	20	40	-	5	-	18,3	3	ø25 x M10 x 80
K0160.2180X16	K0160.3180X16	180	16	-	37	22	43	5	-	18,3	-	3	ø25 x M10 x 80
K0160.2180X18	K0160.3180X18	180	-	18	37	22	43	-	6	-	20,8	3	ø25 x M10 x 80
K0160.2200X18	K0160.3200X18	200	18	-	43	24	45	6	-	20,8	-	3	ø25 x M10 x 80
K0160.2200X22	K0160.3200X22	200	-	22	43	24	45	-	6	-	24,8	3	ø25 x M10 x 80
K0160.2250X22	K0160.3250X22	250	22	-	49	28	50	6	-	24,8	-	5	ø32 x M12 x 100
K0160.2250X26	K0160.3250X26	250	-	26	49	28	50	-	8	-	29,3	5	ø32 x M12 x 100
K0160.2315X26	K0160.3315X26	315	26	-	54	33	56	8	-	29,3	-	5	ø32 x M12 x 100
K0160.2315X30	K0160.3315X30	315	-	30	54	33	56	-	8	-	33,3	5	ø32 x M12 x 100
K0160.2400X30	K0160.3400X30	400	30	-	65	38	63	8	-	33,3	-	5	ø36 x M16 x 112
K0160.2400X34	K0160.3400X34	400	-	34	65	38	63	-	10	-	37,3	5	ø36 x M16 x 112
K0160.2500X34	K0160.3500X34	500	34	-	79	45	72	10	-	37,3	-	5	ø36 x M16 x 112
K0160.2500X40	K0160.3500X40	500	-	40	79	45	72	-	12	-	43,3	5	ø36 x M16 x 112

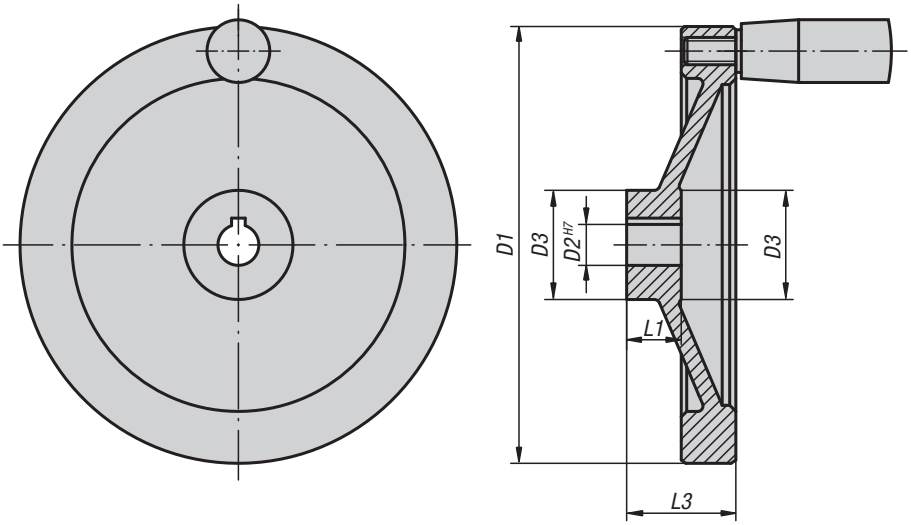
KIPP Handwheels DIN 950 aluminium, with revolving grip

Order No. without slot	Order No. with slot	D1	D2 series 1	D2 series 2	D3	L1	L3	B3 series 1	B3 series 2	T series 1	T series 2	No.of spokes	revolving grip DIN 98 Form E
K0160.4080X10	K0160.5080X10	80	10	-	25	16	29	3	-	11,4	-	3	ø16 x M6 x 54.5
K0160.4080X12	K0160.5080X12	80	-	12	25	16	29	-	4	-	13,8	3	ø16 x M6 x 54.5
K0160.4100X10	K0160.5100X10	100	10	-	29	17	33	3	-	11,4	-	3	ø16 x M6 x 54.5
K0160.4100X12	K0160.5100X12	100	-	12	29	17	33	-	4	-	13,8	3	ø16 x M6 x 54.5
K0160.4125X12	K0160.5125X12	125	12	-	31	18	36	4	-	13,8	-	3	ø20 x M8 x 67
K0160.4125X14	K0160.5125X14	125	-	14	31	18	36	-	5	-	16,3	3	ø20 x M8 x 67
K0160.4140X14	K0160.5140X14	140	14	-	36	19	39	5	-	16,3	-	3	ø20 x M8 x 67
K0160.4140X16	K0160.5140X16	140	-	16	36	19	39	-	5	-	18,3	3	ø20 x M8 x 67
K0160.4160X14	K0160.5160X14	160	14	-	36	20	40	5	-	16,3	-	3	ø25 x M10 x 83
K0160.4160X16	K0160.5160X16	160	-	16	36	20	40	-	5	-	18,3	3	ø25 x M10 x 83
K0160.4180X16	K0160.5180X16	180	16	-	37	22	43	5	-	18,3	-	3	ø25 x M10 x 83
K0160.4180X18	K0160.5180X18	180	-	18	37	22	43	-	6	-	20,8	3	ø25 x M10 x 83
K0160.4200X18	K0160.5200X18	200	18	-	43	24	45	6	-	20,8	-	3	ø25 x M10 x 83
K0160.4200X22	K0160.5200X22	200	-	22	43	24	45	-	6	-	24,8	3	ø25 x M10 x 83
K0160.4250X22	K0160.5250X22	250	22	-	49	28	50	6	-	24,8	-	5	ø32 x M12 x 105,5
K0160.4250X26	K0160.5250X26	250	-	26	49	28	50	-	8	-	29,3	5	ø32 x M12 x 105,5
K0160.4315X26	K0160.5315X26	315	26	-	54	33	56	8	-	29,3	-	5	ø32 x M12 x 105,5
K0160.4315X30	K0160.5315X30	315	-	30	54	33	56	-	8	-	33,3	5	ø32 x M12 x 105,5
K0160.4400X30	K0160.5400X30	400	30	-	65	38	63	8	-	33,3	-	5	ø36 x M16 x 117
K0160.4400X34	K0160.5400X34	400	-	34	65	38	63	-	10	-	37,3	5	ø36 x M16 x 117
K0160.4500X34	K0160.5500X34	500	34	-	79	45	72	10	-	37,3	-	5	ø36 x M16 x 117
K0160.4500X40	K0160.5500X40	500	-	40	79	45	72	-	12	-	43,3	5	ø36 x M16 x 117

Handwheels disc

aluminium





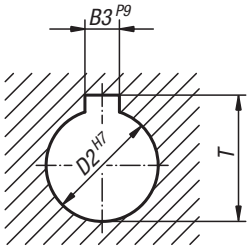
Material:
Disc handwheel aluminium.
Cylinder grip black Duroplast PF 31-DIN 7708.
Hub galvanized steel.

Version:
Wheel rim turned and polished.
Radial and axial run-out of rim < IT 12.

Sample order:
K0161.4080X10

On request:
Hubs with square socket or plastic-coated handwheels.

DIN 6885-1



KIPP Handwheels disc, aluminium, without grip

Order No. without slot	Order No. with slot	D1	D2 series 1	D2 series 2	D3	L1	L3	B3 series 1	B3 series 2	T series 1	T series 2
K0161.0080X10	K0161.1080X10	80	10	-	26	16	31	3	-	11,4	-
K0161.0080X12	K0161.1080X12	80	-	12	26	16	31	-	4	-	13,8
K0161.0100X10	K0161.1100X10	100	10	-	31	17	34	3	-	11,4	-
K0161.0100X12	K0161.1100X12	100	-	12	31	17	34	-	4	-	13,8
K0161.0125X12	K0161.1125X12	125	12	-	30	18	37	4	-	13,8	-
K0161.0125X14	K0161.1125X14	125	-	14	30	18	37	-	5	-	16,3
K0161.0140X14	K0161.1140X14	140	14	-	34	19	34	5	-	16,3	-
K0161.0140X15	K0161.1140X15	140	-	15	34	19	34	-	5	-	17,3
K0161.0160X15	K0161.1160X15	160	15	-	40	20	40	5	-	17,3	-
K0161.0160X16	K0161.1160X16	160	-	16	40	20	40	-	5	-	18,3
K0161.0200X18	K0161.1200X18	200	18	-	50	24	46	6	-	20,8	-
K0161.0200X20	K0161.1200X20	200	-	20	50	24	46	-	6	-	22,8
K0161.0250X22	K0161.1250X22	250	22	-	50	28	49	6	-	24,8	-
K0161.0250X24	K0161.1250X24	250	-	24	50	28	49	-	8	-	27,3

Handwheels disc

aluminium

KIPP Handwheels disc, aluminium, with fixed cylinder grip

Order No. without slot	Order No. with slot	D1	D2 series 1	D2 series 2	D3	L1	L3	B3 series 1	B3 series 2	T series 1	T series 2	Fixed cylinder grip
K0161.2080X10	**K0161.3080X10**	80	10	-	26	16	31	3	-	11,4	-	ø18 x M6 x 40
K0161.2080X12	**K0161.3080X12**	80	-	12	26	16	31	-	4	-	13,8	ø18 x M6 x 40
K0161.2100X10	**K0161.3100X10**	100	10	-	31	17	34	3	-	11,4	-	ø18 x M6 x 40
K0161.2100X12	**K0161.3100X12**	100	-	12	31	17	34	-	4	-	13,8	ø18 x M6 x 40
K0161.2125X12	**K0161.3125X12**	125	12	-	30	18	37	4	-	13,8	-	ø21 x M8 x 50
K0161.2125X14	**K0161.3125X14**	125	-	14	30	18	37	-	5	-	16,3	ø21 x M8 x 50
K0161.2140X14	**K0161.3140X14**	140	14	-	34	19	34	5	-	16,3	-	ø21 x M8 x 50
K0161.2140X15	**K0161.3140X15**	140	-	15	34	19	34	-	5	-	17,3	ø21 x M8 x 50
K0161.2160X15	**K0161.3160X15**	160	15	-	40	20	40	5	-	17,3	-	ø26 x M10 x 80
K0161.2160X16	**K0161.3160X16**	160	-	16	40	20	40	-	5	-	18,3	ø26 x M10 x 80
K0161.2200X18	**K0161.3200X18**	200	18	-	50	24	46	6	-	20,8	-	ø26 x M10 x 80
K0161.2200X20	**K0161.3200X20**	200	-	20	50	24	46	-	6	-	22,8	ø26 x M10 x 80
K0161.2250X22	**K0161.3250X22**	250	22	-	50	28	49	6	-	24,8	-	ø28 x M12 x 90
K0161.2250X24	**K0161.3250X24**	250	-	24	50	28	49	-	8	-	27,3	ø28 x M12 x 90

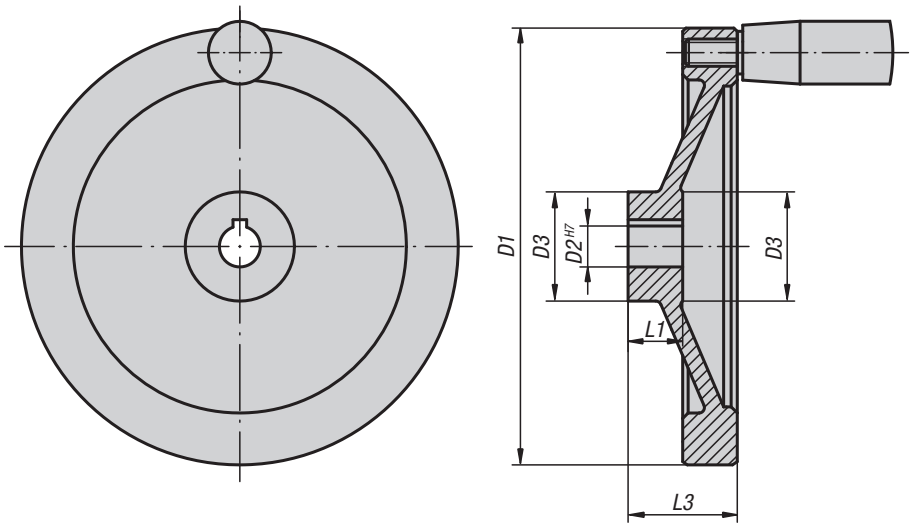
KIPP Handwheels disc, aluminium, with revolving cylinder grip

Order No. without slot	Order No. with slot	D1	D2 series 1	D2 series 2	D3	L1	L3	B3 series 1	B3 series 2	T series 1	T series 2	Revolving cylinder grip
K0161.4080X10	**K0161.5080X10**	80	10	-	26	16	31	3	-	11,4	-	ø18 x M6 x 40
K0161.4080X12	**K0161.5080X12**	80	-	12	26	16	31	-	4	-	13,8	ø18 x M6 x 40
K0161.4100X10	**K0161.5100X10**	100	10	-	31	17	34	3	-	11,4	-	ø18 x M6 x 40
K0161.4100X12	**K0161.5100X12**	100	-	12	31	17	34	-	4	-	13,8	ø18 x M6 x 40
K0161.4125X12	**K0161.5125X12**	125	12	-	30	18	37	4	-	13,8	-	ø22 x M8 x 56
K0161.4125X14	**K0161.5125X14**	125	-	14	30	18	37	-	5	-	16,3	ø22 x M8 x 56
K0161.4140X14	**K0161.5140X14**	140	14	-	34	19	34	5	-	16,3	-	ø22 x M8 x 56
K0161.4140X15	**K0161.5140X15**	140	-	15	34	19	34	-	5	-	17,3	ø22 x M8 x 56
K0161.4160X15	**K0161.5160X15**	160	15	-	40	20	40	5	-	17,3	-	ø26 x M10 x 80
K0161.4160X16	**K0161.5160X16**	160	-	16	40	20	40	-	5	-	18,3	ø26 x M10 x 80
K0161.4200X18	**K0161.5200X18**	200	18	-	50	24	46	6	-	20,8	-	ø26 x M10 x 80
K0161.4200X20	**K0161.5200X20**	200	-	20	50	24	46	-	6	-	22,8	ø26 x M10 x 80
K0161.4250X22	**K0161.5250X22**	250	22	-	50	28	49	6	-	24,8	-	ø31 x M12 x 102
K0161.4250X24	**K0161.5250X24**	250	-	24	50	28	49	-	8	-	27,3	ø31 x M12 x 102

Handwheels disc

aluminium





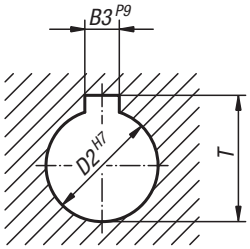
Material:
Disc handwheel aluminium.
Cylinder grip black Duroplast PF 31-DIN 7708.
Hub galvanized steel.

Version:
Black, powder-coated.
Wheel rim turned.
Radial and axial run-out of rim < IT 12.

Sample order:
K0161.01080X10

On request:
Hubs with square socket.

DIN 6885-1



KIPP Handwheels disc, aluminium, without grip

Order No. without slot	Order No. with slot	D1	D2 series 1	D2 series 2	D3	L1	L3	B3 series 1	B3 series 2	T series 1	T series 2
K0161.01080X10	**K0161.11080X10**	80	10	-	26	16	31	3	-	11,4	-
K0161.01080X12	**K0161.11080X12**	80	-	12	26	16	31	-	4	-	13,8
K0161.01100X10	**K0161.11100X10**	100	10	-	31	17	34	3	-	11,4	-
K0161.01100X12	**K0161.11100X12**	100	-	12	31	17	34	-	4	-	13,8
K0161.01125X12	**K0161.11125X12**	125	12	-	30	18	37	4	-	13,8	-
K0161.01125X14	**K0161.11125X14**	125	-	14	30	18	37	-	5	-	16,3
K0161.01140X14	**K0161.11140X14**	140	14	-	34	19	34	5	-	16,3	-
K0161.01140X15	**K0161.11140X15**	140	-	15	34	19	34	-	5	-	17,3
K0161.01160X15	**K0161.11160X15**	160	15	-	40	20	40	5	-	17,3	-
K0161.01160X16	**K0161.11160X16**	160	-	16	40	20	40	-	5	-	18,3
K0161.01200X18	**K0161.11200X18**	200	18	-	50	24	46	6	-	20,8	-
K0161.01200X20	**K0161.11200X20**	200	-	20	50	24	46	-	6	-	22,8
K0161.01250X22	**K0161.11250X22**	250	22	-	50	28	49	6	-	24,8	-
K0161.01250X24	**K0161.11250X24**	250	-	24	50	28	49	-	8	-	27,3

Handwheels disc

aluminium

KIPP Handwheels disc, aluminium, with fixed cylinder grip

Order No. without slot	Order No. with slot	D1	D2 series 1	D2 series 2	D3	L1	L3	B3 series 1	B3 series 2	T series 1	T series 2	Fixed cylinder grip
K0161.21080X10	**K0161.31080X10**	80	10	-	26	16	31	3	-	11,4	-	ø18 x M6 x 40
K0161.21080X12	**K0161.31080X12**	80	-	12	26	16	31	-	4	-	13,8	ø18 x M6 x 40
K0161.21100X10	**K0161.31100X10**	100	10	-	31	17	34	3	-	11,4	-	ø18 x M6 x 40
K0161.21100X12	**K0161.31100X12**	100	-	12	31	17	34	-	4	-	13,8	ø18 x M6 x 40
K0161.21125X12	**K0161.31125X12**	125	12	-	30	18	37	4	-	13,8	-	ø21 x M8 x 50
K0161.21125X14	**K0161.31125X14**	125	-	14	30	18	37	-	5	-	16,3	ø21 x M8 x 50
K0161.21140X14	**K0161.31140X14**	140	14	-	34	19	34	5	-	16,3	-	ø21 x M8 x 50
K0161.21140X15	**K0161.31140X15**	140	-	15	34	19	34	-	5	-	17,3	ø21 x M8 x 50
K0161.21160X15	**K0161.31160X15**	160	15	-	40	20	40	5	-	17,3	-	ø26 x M10 x 80
K0161.21160X16	**K0161.31160X16**	160	-	16	40	20	40	-	5	-	18,3	ø26 x M10 x 80
K0161.21200X18	**K0161.31200X18**	200	18	-	50	24	46	6	-	20,8	-	ø26 x M10 x 80
K0161.21200X20	**K0161.31200X20**	200	-	20	50	24	46	-	6	-	22,8	ø26 x M10 x 80
K0161.21250X22	**K0161.31250X22**	250	22	-	50	28	49	6	-	24,8	-	ø28 x M12 x 90
K0161.21250X24	**K0161.31250X24**	250	-	24	50	28	49	-	8	-	27,3	ø28 x M12 x 90

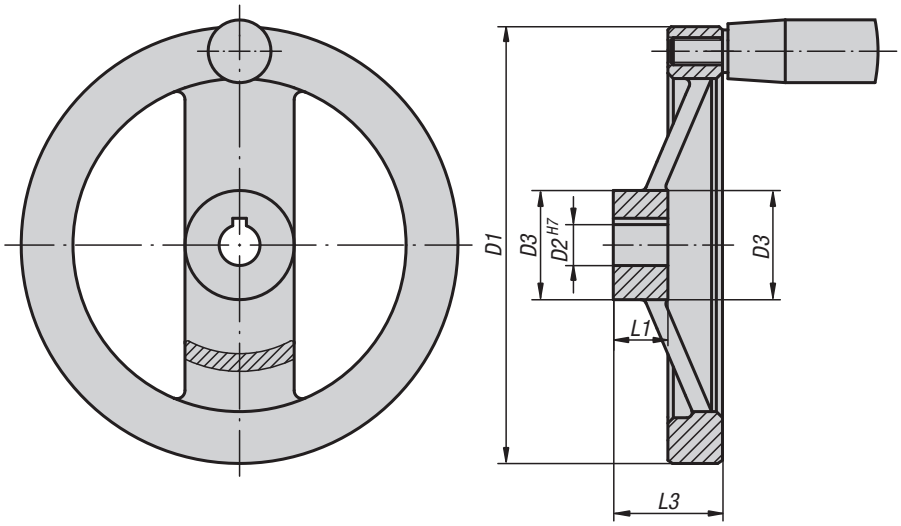
KIPP Handwheels disc, aluminium, with revolving cylinder grip

Order No. without slot	Order No. with slot	D1	D2 series 1	D2 series 2	D3	L1	L3	B3 series 1	B3 series 2	T series 1	T series 2	Revolving cylinder grip
K0161.41080X10	**K0161.51080X10**	80	10	-	26	16	31	3	-	11,4	-	ø18 x M6 x 40
K0161.41080X12	**K0161.51080X12**	80	-	12	26	16	31	-	4	-	13,8	ø18 x M6 x 40
K0161.41100X10	**K0161.51100X10**	100	10	-	31	17	34	3	-	11,4	-	ø18 x M6 x 40
K0161.41100X12	**K0161.51100X12**	100	-	12	31	17	34	-	4	-	13,8	ø18 x M6 x 40
K0161.41125X12	**K0161.51125X12**	125	12	-	30	18	37	4	-	13,8	-	ø22 x M8 x 56
K0161.41125X14	**K0161.51125X14**	125	-	14	30	18	37	-	5	-	16,3	ø22 x M8 x 56
K0161.41140X14	**K0161.51140X14**	140	14	-	34	19	34	5	-	16,3	-	ø22 x M8 x 56
K0161.41140X15	**K0161.51140X15**	140	-	15	34	19	34	-	5	-	17,3	ø22 x M8 x 56
K0161.41160X15	**K0161.51160X15**	160	15	-	40	20	40	5	-	17,3	-	ø26 x M10 x 80
K0161.41160X16	**K0161.51160X16**	160	-	16	40	20	40	-	5	-	18,3	ø26 x M10 x 80
K0161.41200X18	**K0161.51200X18**	200	18	-	50	24	46	6	-	20,8	-	ø26 x M10 x 80
K0161.41200X20	**K0161.51200X20**	200	-	20	50	24	46	-	6	-	22,8	ø26 x M10 x 80
K0161.41250X22	**K0161.51250X22**	250	22	-	50	28	49	6	-	24,8	-	ø31 x M12 x 102
K0161.41250X24	**K0161.51250X24**	250	-	24	50	28	49	-	8	-	27,3	ø31 x M12 x 102

Handwheels 2-spoke

flat rim, aluminium





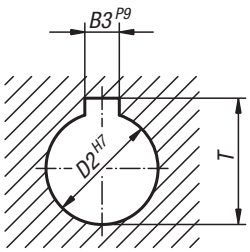
Material:
Handwheels aluminium.
Cylinder grip black Duroplast PF 31-DIN 7708.
Hub galvanized steel.

Version:
Wheel rim turned and polished.
Radial and axial run-out of rim < IT 12.

Sample order:
K0162.4080X10

On request:
Hubs with square socket or plastic-coated handwheels.

DIN 6885-1



KIPP Handwheels 2-spoke, aluminium, flat wheel rim, without grip

Order No. without slot	Order No. with slot	D1	D2 series 1	D2 series 2	D3	L1	L3	B3 series 1	B3 series 2	T series 1	T series 2
K0162.0080X10	**K0162.1080X10**	80	10	-	24	16	28	3	-	11,4	-
K0162.0080X12	**K0162.1080X12**	80	-	12	24	16	28	-	4	-	13,8
K0162.0100X10	**K0162.1100X10**	100	10	-	26	17	33	3	-	11,4	-
K0162.0100X12	**K0162.1100X12**	100	-	12	26	17	33	-	4	-	13,8
K0162.0125X12	**K0162.1125X12**	125	12	-	31	18	33,5	4	-	13,8	-
K0162.0125X14	**K0162.1125X14**	125	-	14	31	18	33,5	-	5	-	16,3
K0162.0160X14	**K0162.1160X14**	160	14	-	36	20	39	5	-	16,3	-
K0162.0160X16	**K0162.1160X16**	160	-	16	36	20	39	-	5	-	18,3
K0162.0200X18	**K0162.1200X18**	200	18	-	42	24	45	6	-	20,8	-
K0162.0200X20	**K0162.1200X20**	200	-	20	42	24	45	-	6	-	22,8
K0162.0250X22	**K0162.1250X22**	250	22	-	48	28	51	6	-	24,8	-
K0162.0250X26	**K0162.1250X26**	250	-	26	48	28	51	-	8	-	29,3

Handwheels 2-spoke

flat rim, aluminium

KIPP Handwheels 2-spoke, aluminium, flat wheel rim, with fixed cylinder grip

Order No. without slot	Order No. with slot	D1	D2 series 1	D2 series 2	D3	L1	L3	B3 series 1	B3 series 2	T series 1	T series 2	Fixed cylinder grip
K0162.2080X10	K0162.3080X10	80	10	-	24	16	28	3	-	11,4	-	ø18 x M6 x 40
K0162.2080X12	K0162.3080X12	80	-	12	24	16	28	-	4	-	13,8	ø18 x M6 x 40
K0162.2100X10	K0162.3100X10	100	10	-	26	17	33	3	-	11,4	-	ø18 x M6 x 40
K0162.2100X12	K0162.3100X12	100	-	12	26	17	33	-	4	-	13,8	ø18 x M6 x 40
K0162.2125X12	K0162.3125X12	125	12	-	31	18	33,5	4	-	13,8	-	ø21 x M8 x 50
K0162.2125X14	K0162.3125X14	125	-	14	31	18	33,5	-	5	-	16,3	ø21 x M8 x 50
K0162.2160X14	K0162.3160X14	160	14	-	36	20	39	5	-	16,3	-	ø26 x M10 x 80
K0162.2160X16	K0162.3160X16	160	-	16	36	20	39	-	5	-	18,3	ø26 x M10 x 80
K0162.2200X18	K0162.3200X18	200	18	-	42	24	45	6	-	20,8	-	ø26 x M10 x 80
K0162.2200X20	K0162.3200X20	200	-	20	42	24	45	-	6	-	22,8	ø26 x M10 x 80
K0162.2250X22	K0162.3250X22	250	22	-	48	28	51	6	-	24,8	-	ø28 x M12 x 90
K0162.2250X26	K0162.3250X26	250	-	26	48	28	51	-	8	-	29,3	ø28 x M12 x 90

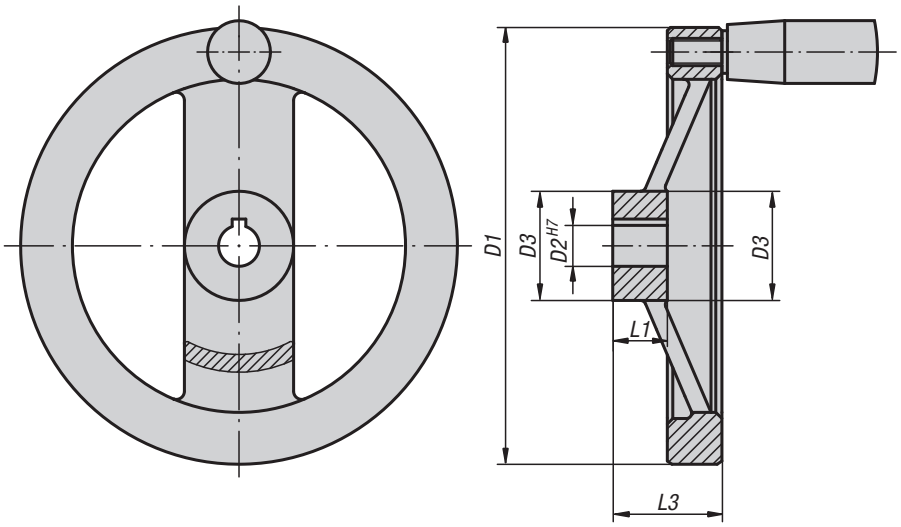
KIPP Handwheels 2-spoke, aluminium, flat wheel rim, with revolving cylinder grip

Order No. without slot	Order No. with slot	D1	D2 series 1	D2 series 2	D3	L1	L3	B3 series 1	B3 series 2	T series 1	T series 2	Revolving cylinder grip
K0162.4080X10	K0162.5080X10	80	10	-	24	16	28	3	-	11,4	-	ø18 x M6 x 40
K0162.4080X12	K0162.5080X12	80	-	12	24	16	28	-	4	-	13,8	ø18 x M6 x 40
K0162.4100X10	K0162.5100X10	100	10	-	26	17	33	3	-	11,4	-	ø18 x M6 x 40
K0162.4100X12	K0162.5100X12	100	-	12	26	17	33	-	4	-	13,8	ø18 x M6 x 40
K0162.4125X12	K0162.5125X12	125	12	-	31	18	33,5	4	-	13,8	-	ø22 x M8 x 56
K0162.4125X14	K0162.5125X14	125	-	14	31	18	33,5	-	5	-	16,3	ø22 x M8 x 56
K0162.4160X14	K0162.5160X14	160	14	-	36	20	39	5	-	16,3	-	ø26 x M10 x 80
K0162.4160X16	K0162.5160X16	160	-	16	36	20	39	-	5	-	18,3	ø26 x M10 x 80
K0162.4200X18	K0162.5200X18	200	18	-	42	24	45	6	-	20,8	-	ø26 x M10 x 80
K0162.4200X20	K0162.5200X20	200	-	20	42	24	45	-	6	-	22,8	ø26 x M10 x 80
K0162.4250X22	K0162.5250X22	250	22	-	48	28	51	6	-	24,8	-	ø31 x M12 x 102
K0162.4250X26	K0162.5250X26	250	-	26	48	28	51	-	8	-	29,3	ø31 x M12 x 102

Handwheels 2-spoke

flat rim, aluminium





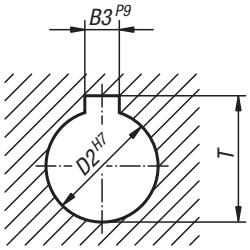
Material:
Handwheels aluminium.
Cylinder grip black Duroplast PF 31-DIN 7708.
Hub galvanized steel.

Version:
Black, powder-coated.
Wheel rim turned.
Radial and axial run-out of rim < IT 12.

Sample order:
K0162.01080X10

On request:
Hubs with square socket.

DIN 6885-1



KIPP Handwheels 2-spoke, aluminium, flat wheel rim, without grip

Order No. without slot	Order No. with slot	D1	D2 series 1	D2 series 2	D3	L1	L3	B3 series 1	B3 series 2	T series 1	T series 2
K0162.01080X10	**K0162.11080X10**	80	10	-	24	16	28	3	-	11,4	-
K0162.01080X12	**K0162.11080X12**	80	-	12	24	16	28	-	4	-	13,8
K0162.01100X10	**K0162.11100X10**	100	10	-	26	17	33	3	-	11,4	-
K0162.01100X12	**K0162.11100X12**	100	-	12	26	17	33	-	4	-	13,8
K0162.01125X12	**K0162.11125X12**	125	12	-	31	18	33,5	4	-	13,8	-
K0162.01125X14	**K0162.11125X14**	125	-	14	31	18	33,5	-	5	-	16,3
K0162.01160X14	**K0162.11160X14**	160	14	-	36	20	39	5	-	16,3	-
K0162.01160X16	**K0162.11160X16**	160	-	16	36	20	39	-	5	-	18,3
K0162.01200X18	**K0162.11200X18**	200	18	-	42	24	45	6	-	20,8	-
K0162.01200X20	**K0162.11200X20**	200	-	20	42	24	45	-	6	-	22,8
K0162.01250X22	**K0162.11250X22**	250	22	-	48	28	51	6	-	24,8	-
K0162.01250X26	**K0162.11250X26**	250	-	26	48	28	51	-	8	-	29,3

Handwheels 2-spoke

flat rim, aluminium

KIPP Handwheels 2-spoke, aluminium, flat wheel rim, with fixed cylinder grip

Order No. without slot	Order No. with slot	D1	D2 series 1	D2 series 2	D3	L1	L3	B3 series 1	B3 series 2	T series 1	T series 2	Fixed cylinder grip
K0162.21080X10	K0162.31080X10	80	10	-	24	16	28	3	-	11,4	-	ø18 x M6 x 40
K0162.21080X12	K0162.31080X12	80	-	12	24	16	28	-	4	-	13,8	ø18 x M6 x 40
K0162.21100X10	K0162.31100X10	100	10	-	26	17	33	3	-	11,4	-	ø18 x M6 x 40
K0162.21100X12	K0162.31100X12	100	-	12	26	17	33	-	4	-	13,8	ø18 x M6 x 40
K0162.21125X12	K0162.31125X12	125	12	-	31	18	33,5	4	-	13,8	-	ø21 x M8 x 50
K0162.21125X14	K0162.31125X14	125	-	14	31	18	33,5	-	5	-	16,3	ø21 x M8 x 50
K0162.21160X14	K0162.31160X14	160	14	-	36	20	39	5	-	16,3	-	ø26 x M10 x 80
K0162.21160X16	K0162.31160X16	160	-	16	36	20	39	-	5	-	18,3	ø26 x M10 x 80
K0162.21200X18	K0162.31200X18	200	18	-	42	24	45	6	-	20,8	-	ø26 x M10 x 80
K0162.21200X20	K0162.31200X20	200	-	20	42	24	45	-	6	-	22,8	ø26 x M10 x 80
K0162.21250X22	K0162.31250X22	250	22	-	48	28	51	6	-	24,8	-	ø28 x M12 x 90
K0162.21250X26	K0162.31250X26	250	-	26	48	28	51	-	8	-	29,3	ø28 x M12 x 90

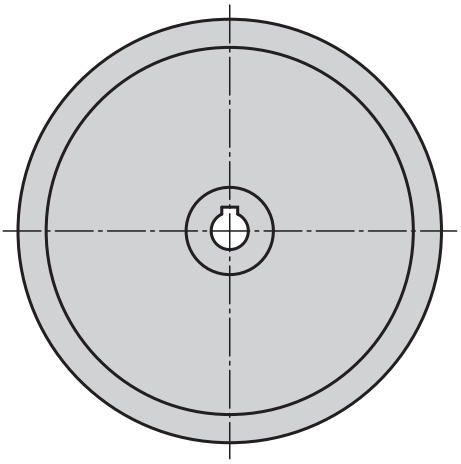
KIPP Handwheels 2-spoke, aluminium, flat wheel rim, with revolving cylinder grip

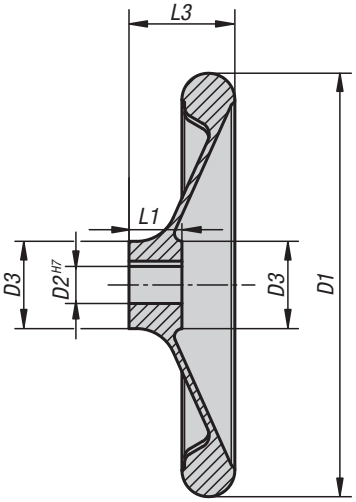
Order No. without slot	Order No. with slot	D1	D2 series 1	D2 series 2	D3	L1	L3	B3 series 1	B3 series 2	T series 1	T series 2	Revolving cylinder grip
K0162.41080X10	K0162.51080X10	80	10	-	24	16	28	3	-	11,4	-	ø18 x M6 x 40
K0162.41080X12	K0162.51080X12	80	-	12	24	16	28	-	4	-	13,8	ø18 x M6 x 40
K0162.41100X10	K0162.51100X10	100	10	-	26	17	33	3	-	11,4	-	ø18 x M6 x 40
K0162.41100X12	K0162.51100X12	100	-	12	26	17	33	-	4	-	13,8	ø18 x M6 x 40
K0162.41125X12	K0162.51125X12	125	12	-	31	18	33,5	4	-	13,8	-	ø22 x M8 x 56
K0162.41125X14	K0162.51125X14	125	-	14	31	18	33,5	-	5	-	16,3	ø22 x M8 x 56
K0162.41160X14	K0162.51160X14	160	14	-	36	20	39	5	-	16,3	-	ø26 x M10 x 80
K0162.41160X16	K0162.51160X16	160	-	16	36	20	39	-	5	-	18,3	ø26 x M10 x 80
K0162.41200X18	K0162.51200X18	200	18	-	42	24	45	6	-	20,8	-	ø26 x M10 x 80
K0162.41200X20	K0162.51200X20	200	-	20	42	24	45	-	6	-	22,8	ø26 x M10 x 80
K0162.41250X22	K0162.51250X22	250	22	-	48	28	51	6	-	24,8	-	ø31 x M12 x 102
K0162.41250X26	K0162.51250X26	250	-	26	48	28	51	-	8	-	29,3	ø31 x M12 x 102

Handwheels disc

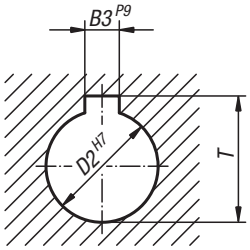
similar to DIN 950, aluminium







DIN 6885-1



Material:
Handwheel aluminium.

Version:
Wheel rim turned and polished.
Radial and axial run-out of rim < IT 12.

Sample order:
K0163.0080X10

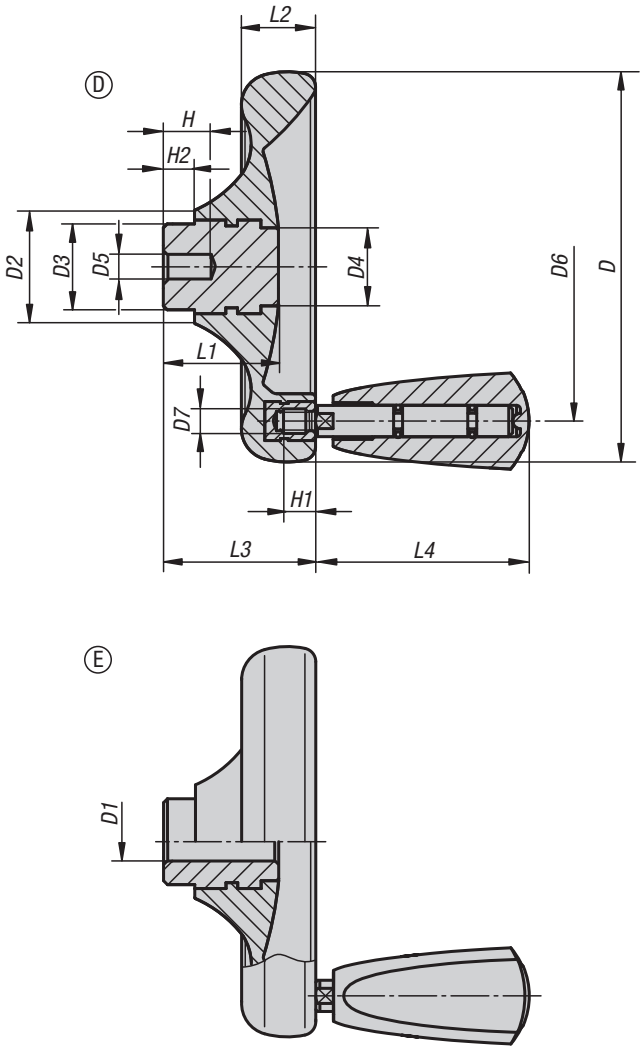
On request:
Hubs with square socket or plastic-coated handwheels.

KIPP Handwheels disc, similar to DIN 950, aluminium

Order No. without slot	Order No. with slot	D1	D2 series 1	D2 series 2	D3	L1	L3	B3 series 1	B3 series 2	T series 1	T series 2
K0163.0080X10	K0163.1080X10	80	10	-	25	16	30	3	-	11,4	-
K0163.0080X12	K0163.1080X12	80	-	12	25	16	30	-	4	-	13,8
K0163.0100X10	K0163.1100X10	100	10	-	28	17	31	3	-	11,4	-
K0163.0100X12	K0163.1100X12	100	-	12	28	17	31	-	4	-	13,8
K0163.0120X12	K0163.1120X12	120	12	-	27	18	30	4	-	13,8	-
K0163.0120X14	K0163.1120X14	120	-	14	27	18	30	-	5	-	16,3
K0163.0160X14	K0163.1160X14	160	14	-	34	20	40	5	-	16,3	-
K0163.0160X16	K0163.1160X16	160	-	16	34	20	40	-	5	-	18,3
K0163.0200X18	K0163.1200X18	200	18	-	40	24	44	6	-	20,8	-
K0163.0200X22	K0163.1200X22	200	-	22	40	24	44	-	6	-	24,8
K0163.0250X22	K0163.1250X22	250	22	-	49	28	61	6	-	24,8	-
K0163.0250X26	K0163.1250X26	250	-	26	49	28	61	-	8	-	29,3
K0163.0280X24	K0163.1280X24	280	24	-	51	30	38	8	-	27,3	-
K0163.0280X28	K0163.1280X28	280	-	28	51	30	38	-	8	-	31,3
K0163.0360X28	K0163.1360X28	360	28	-	63	35	73	8	-	31,3	-
K0163.0360X32	K0163.1360X32	360	-	32	63	35	73	-	10	-	35,3

Handwheels disc

with revolving grip





Material:
Duroplast PF 31, black.
Hubs nickel-plated steel or bright stainless steel 1.4305.
Revolving grip, metal parts nickel-plated or stainless steel 1.4305, bright.

Version:
High-gloss polished.

Sample order:
K0164.0125X08

Note:
The handwheel is supplied with the grip loose.

On request:
Other reamed holes.

Drawing reference:
Form D: pre-drilled
Form E: with reamed hole

KIPP Handwheels disc, with revolving grip

Order No. Form D	Order No. Form E	Size	D	D1	D2	D3	D4	D5	D6	D7	H	H1	H2	L1	L2	L3	L4
K0164.0100X06	**K0164.1100X10**	1	100	-/10 H8	29	22	20	6/-	79	M6	12/-	9	8	29,5	19	39	54,7
K0164.0125X08	**K0164.1125X12**	2	125	-/12 H8	34	26	21	8/-	101	M6	15/-	9	8	34	24	46	54,7
K0164.0140X08	**K0164.1140X14**	3	140	-/14 H8	39	30	25	8/-	110	M8	16/-	12	8	38,5	27	52	82,2
K0164.0160X10	**K0164.1160X16**	4	160	-/16 H8	43	33	30	10/-	128	M8	20/-	12	8	41,3	30,1	57	82,2
-	**K0164.1160X18**	4	160	18 H8	43	33	30	-	128	M8	-	12	8	41,3	30,1	57	82,2

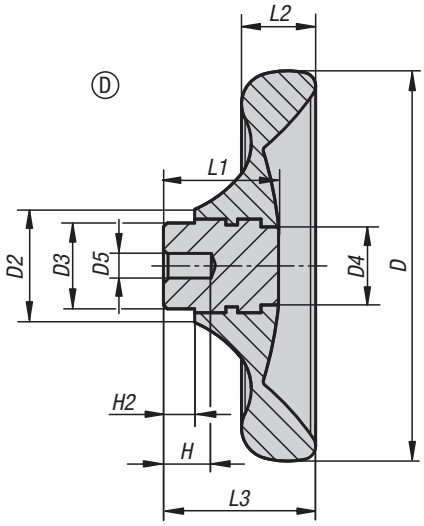
KIPP Handwheels disc, with revolving grip, metal parts stainless steel

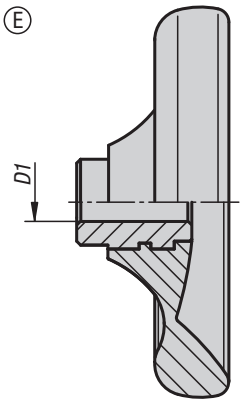
Order No. Form D	Order No. Form E	Size	D	D1	D2	D3	D4	D5	D6	D7	H	H1	H2	L1	L2	L3	L4
K0164.2100X06	**K0164.3100X10**	1	100	-/10 H7	29	22	20	6/-	79	M6	12/-	9	8	29,5	19	39	54,7
K0164.2125X08	**K0164.3125X12**	2	125	-/12 H7	34	26	21	8/-	101	M6	15/-	9	8	34	24	46	54,7
K0164.2140X08	**K0164.3140X14**	3	140	-/14 H7	39	30	25	8/-	110	M8	16/-	12	8	38,5	27	52	82,2
K0164.2160X10	**K0164.3160X16**	4	160	-/16 H7	43	33	30	10/-	128	M8	20/-	12	8	41,3	30,1	57	82,2
-	**K0164.3160X18**	4	160	18 H7	43	33	30	-	128	M8	-	12	8	41,3	30,1	57	82,2

Handwheels disc

without grip







Material:
Black Duroplast PF 31.
Hub nickel-plated steel or bright stainless steel 1.4305.

Version:
High-gloss polished.

Sample order:
K0165.0100X06

On request:
Other reamed holes.

Drawing reference:
Form D: pre-drilled
Form E: with reamed hole

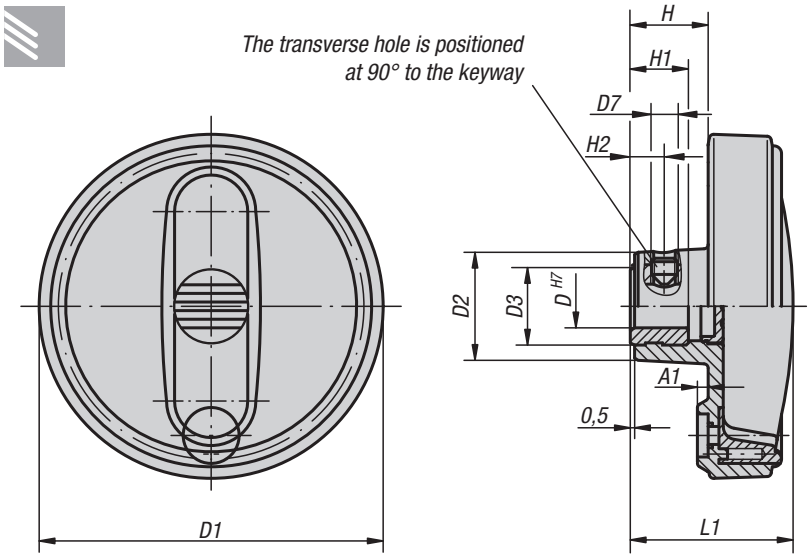
KIPP Handwheels disc, without grip, bush steel

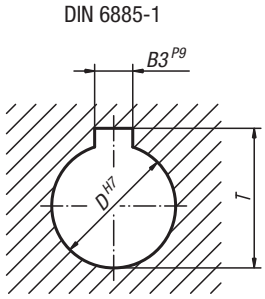
Order No. Form D	Order No. Form E	Size	D	D1	D2	D3	D4	D5	H	H2	L1	L2	L3
K0165.0100X06	**K0165.1100X10**	1	100	-/10 H8	29	22	20	6/-	12/-	8	29,5	19	39
K0165.0125X08	**K0165.1125X12**	2	125	-/12 H8	34	26	21	8/-	15/-	8	34	24	46
K0165.0140X08	**K0165.1140X14**	3	140	-/14 H8	39	30	25	8/-	16/-	8	38,5	27	52
K0165.0160X10	**K0165.1160X16**	4	160	-/16 H8	43	33	30	10/-	20/-	8	41,3	30,1	57
-	**K0165.1160X18**	4	160	18 H8	43	33	30	-	-	8	41,3	30,1	57

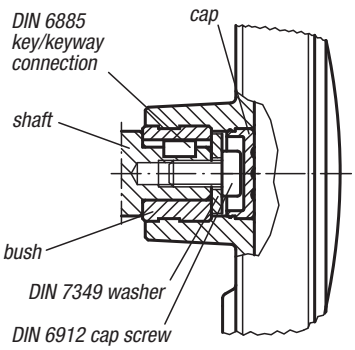
KIPP Handwheels disc, without grip, bush stainless steel

Order No. Form D	Order No. Form E	Size	D	D1	D2	D3	D4	D5	H	H2	L1	L2	L3
K0165.2100X06	**K0165.3100X10**	1	100	-/10 H7	29	22	20	6/-	12/-	8	29,5	19	39
K0165.2125X08	**K0165.3125X12**	2	125	-/12 H7	34	26	21	8/-	15/-	8	34	24	46
K0165.2140X08	**K0165.3140X14**	3	140	-/14 H7	39	30	25	8/-	16/-	8	38,5	27	52
K0165.2160X10	**K0165.3160X16**	4	160	-/16 H7	43	33	30	10/-	20/-	8	41,3	30,1	57
-	**K0165.3160X18**	4	160	18 H7	43	33	30	-	-	8	41,3	30,1	57

Handwheels









The quality of Novo-Grip handwheels is defined by precise rotation and secure grip. Novo-Grip handwheels can be mounted and safely used on high-performance products.

Material:
Black grey thermoplastic.

Version:
Steel parts black oxidised.

Sample order:
K0256.108008

Note:
The hub cap is supplied loose.
The handwheels can be secured using a transverse pin or by parallel key connection together with a DIN 6912 socket head screw and a DIN 7349 washer.
Versions with transverse bore are fastened using the ISO 4026 (DIN 913) grub screws.

KIPP Handwheels

Order No. without slot	Order No. with slot	Size	D	D1	D2	D3	A1	H	H1	L1	B3	T
K0256.108008	K0256.10800802	1	8	80	25	19	2,5	17,5	13	37,5	-/2	-/9
K0256.108010	K0256.10801003	1	10	80	25	19	2,5	17,5	13	37,5	-/3	-/11,4
K0256.108012	K0256.10801204	1	12	80	25	19	2,5	17,5	13	37,5	-/4	-/13,8
K0256.210010	K0256.21001003	2	10	100	28	19	3	20	13	44	-/3	-/11,4
K0256.210012	K0256.21001204	2	12	100	28	19	3	20	13	44	-/4	-/13,8
K0256.312512	K0256.31251204	3	12	125	35	25	4	23,5	18,5	53	-/4	-/13,8
K0256.312514	K0256.31251405	3	14	125	35	25	4	23,5	18,5	53	-/5	-/16,3
K0256.312516	K0256.31251605	3	16	125	35	25	4	23,5	18,5	53	-/5	-/18,3
K0256.416014	K0256.41601405	4	14	160	45	25	5,6	28	18,5	64,5	-/5	-/16,3
K0256.416016	K0256.41601605	4	16	160	45	25	5,6	28	18,5	64,5	-/5	-/18,3

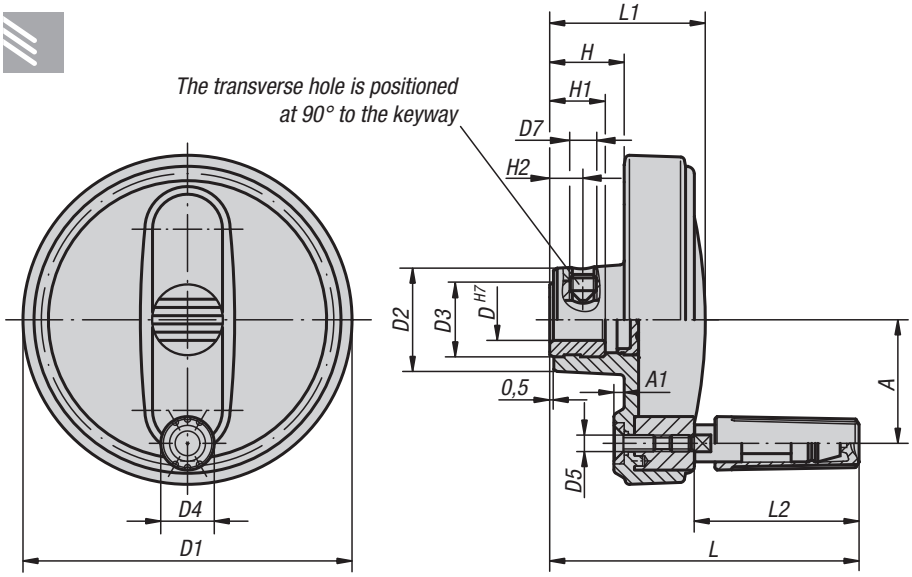
KIPP Handwheels with transverse bore

Order No. without slot	Order No. with slot	Size	D	D1	D2	D3	D7	A1	H	H1	H2	L1	B3	T
K0256.1080086	K0256.108008026	1	8	80	25	19	M6	2,5	17,5	13	7,5	37,5	-/2	-/9
K0256.1080106	K0256.108010036	1	10	80	25	19	M6	2,5	17,5	13	7,5	37,5	-/3	-/11,4
K0256.1080126	K0256.108012046	1	12	80	25	19	M6	2,5	17,5	13	7,5	37,5	-/4	-/13,8
K0256.2100106	K0256.210010036	2	10	100	28	19	M6	3	20	13	7,5	44	-/3	-/11,4
K0256.2100126	K0256.210012046	2	12	100	28	19	M6	3	20	13	7,5	44	-/4	-/13,8
K0256.3125126	K0256.312512046	3	12	125	35	25	M6	4	23,5	18,5	7,5	53	-/4	-/13,8
K0256.3125146	K0256.312514056	3	14	125	35	25	M6	4	23,5	18,5	7,5	53	-/5	-/16,3
K0256.3125166	K0256.312516056	3	16	125	35	25	M6	4	23,5	18,5	7,5	53	-/5	-/18,3
K0256.4160146	K0256.416014056	4	14	160	45	25	M6	5,6	28	18,5	7,5	64,5	-/5	-/16,3
K0256.4160166	K0256.416016056	4	16	160	45	25	M6	5,6	28	18,5	7,5	64,5	-/5	-/18,3

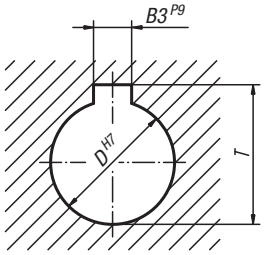
Handwheels

with revolving grip





DIN 6885-1



Material:
Black grey thermoplastic.

Version:
Steel parts black oxidised.

Sample order:
K0257.108008

Note:
The hub cover and the revolving cylinder grip are supplied unassembled. To assemble, screw the grip into the tapped hole.
The handwheels can be secured using a transverse pin or by parallel key connection together with a DIN 6912 socket head screw and a DIN 7349 washer.
Versions with transverse bore are secured using the ISO 4026 (DIN 913) grub screw.

KIPP Handwheels with revolving cylinder grip

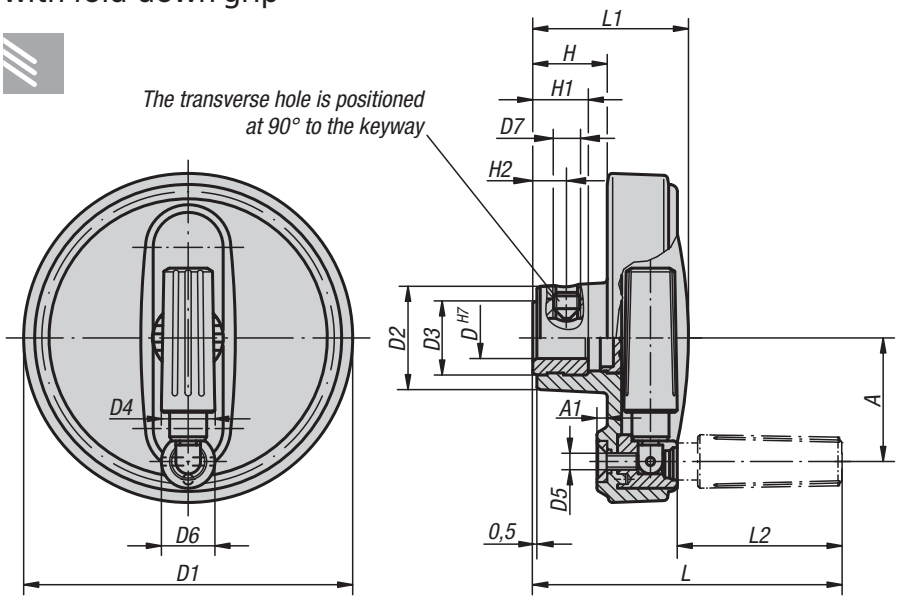
Order No. without slot	Order No. with slot	Size	D	D1	D2	D3	D4	D5	A	A1	H	H1	L	L1	L2	B3	T
K0257.108008	K0257.10800802	1	8	80	25	19	13	M4	30	2,5	17,5	13	75	37,5	40	-/2	-/9
K0257.108010	K0257.10801003	1	10	80	25	19	13	M4	30	2,5	17,5	13	75	37,5	40	-/3	-/11,4
K0257.108012	K0257.10801204	1	12	80	25	19	13	M4	30	2,5	17,5	13	75	37,5	40	-/4	-/13,8
K0257.210010	K0257.21001003	2	10	100	28	19	16	M5	38	3	20	13	90	44	49,5	-/3	-/11,4
K0257.210012	K0257.21001204	2	12	100	28	19	16	M5	38	3	20	13	90	44	49,5	-/4	-/13,8
K0257.312512	K0257.31251204	3	12	125	35	25	20	M6	47,5	4	23,5	18,5	109	53	60	-/4	-/13,8
K0257.312514	K0257.31251405	3	14	125	35	25	20	M6	47,5	4	23,5	18,5	109	53	60	-/5	-/16,3
K0257.312516	K0257.31251605	3	16	125	35	25	20	M6	47,5	4	23,5	18,5	109	53	60	-/5	-/18,3
K0257.416014	K0257.41601405	4	14	160	45	25	25	M8	62	5,6	28	18,5	144	64,5	83,5	-/5	-/16,3
K0257.416016	K0257.41601605	4	16	160	45	25	25	M8	62	5,6	28	18,5	144	64,5	83,5	-/5	-/18,3

KIPP Handwheels with revolving cylinder grip with transverse bore

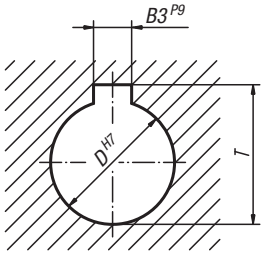
Order No. without slot	Order No. with slot	Size	D	D1	D2	D3	D4	D5	D7	A	A1	H	H1	H2	L	L1	L2	B3	T
K0257.1080086	K0257.108008026	1	8	80	25	19	13	M4	M6	30	2,5	17,5	13	7,5	75	37,5	40	-/2	-/9
K0257.1080106	K0257.108010036	1	10	80	25	19	13	M4	M6	30	2,5	17,5	13	7,5	75	37,5	40	-/3	-/11,4
K0257.1080126	K0257.108012046	1	12	80	25	19	13	M4	M6	30	2,5	17,5	13	7,5	75	37,5	40	-/4	-/13,8
K0257.2100106	K0257.210010036	2	10	100	28	19	16	M5	M6	38	3	20	13	7,5	90	44	49,5	-/3	-/11,4
K0257.2100126	K0257.210012046	2	12	100	28	19	16	M5	M6	38	3	20	13	7,5	90	44	49,5	-/4	-/13,8
K0257.3125126	K0257.312512046	3	12	125	35	25	20	M6	M6	47,5	4	23,5	18,5	7,5	109	53	60	-/4	-/13,8
K0257.3125146	K0257.312514056	3	14	125	35	25	20	M6	M6	47,5	4	23,5	18,5	7,5	109	53	60	-/5	-/16,3
K0257.3125166	K0257.312516056	3	16	125	35	25	20	M6	M6	47,5	4	23,5	18,5	7,5	109	53	60	-/5	-/18,3
K0257.4160146	K0257.416014056	4	14	160	45	25	25	M8	M6	62	5,6	28	18,5	7,5	144	64,5	83,5	-/5	-/16,3
K0257.4160166	K0257.416016056	4	16	160	45	25	25	M8	M6	62	5,6	28	18,5	7,5	144	64,5	83,5	-/5	-/18,3

Handwheels

with fold-down grip



DIN 6885-1





Material:
Black grey thermoplastic.

Version:
Steel parts black oxidised.

Sample order:
K0258.108008

Note:
The hub cover is supplied loose.
The handwheels can be secured using a transverse pin or by parallel key connection together with a DIN 6912 socket head screw and a DIN 7349 washer.
Versions with transverse bore are secured using the ISO 4026 (DIN 913) grub screw.
For assembly example, see K0256.

KIPP Handwheels with fold-down cylinder grip

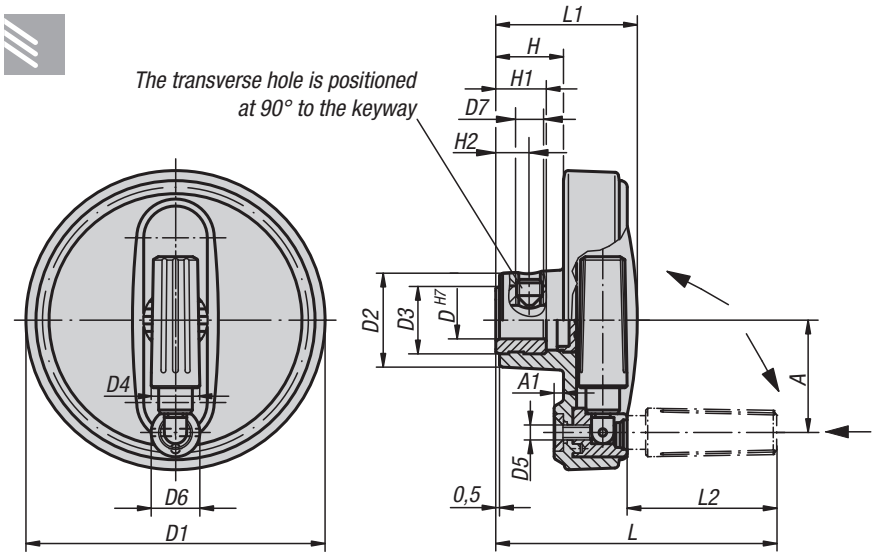
Order No. without slot	Order No. with slot	Size	D	D1	D2	D3	D4	D5	D6	A	A1	H	H1	L	L1	L2	B3	T
K0258.108008	K0258.10800802	1	8	80	25	19	13	M4	13	30	2,5	17,5	13	75	37,5	40	-/2	-/9
K0258.108010	K0258.10801003	1	10	80	25	19	13	M4	13	30	2,5	17,5	13	75	37,5	40	-/3	-/11,4
K0258.108012	K0258.10801204	1	12	80	25	19	13	M4	13	30	2,5	17,5	13	75	37,5	40	-/4	-/13,8
K0258.210010	K0258.21001003	2	10	100	28	19	16	M5	16	38	3	20	13	90	44	49	-/3	-/11,4
K0258.210012	K0258.21001204	2	12	100	28	19	16	M5	16	38	3	20	13	90	44	49	-/4	-/13,8
K0258.312512	K0258.31251204	3	12	125	35	25	20	M6	20	47,5	4	23,5	18,5	109	53	59,5	-/4	-/13,8
K0258.312514	K0258.31251405	3	14	125	35	25	20	M6	20	47,5	4	23,5	18,5	109	53	59,5	-/5	-/16,3
K0258.312516	K0258.31251605	3	16	125	35	25	20	M6	20	47,5	4	23,5	18,5	109	53	59,5	-/5	-/18,3
K0258.416014	K0258.41601405	4	14	160	45	25	25	M8	26	62	5,6	28	18,5	144	64,5	83,5	-/5	-/16,3
K0258.416016	K0258.41601605	4	16	160	45	25	25	M8	26	62	5,6	28	18,5	144	64,5	83,5	-/5	-/18,3

KIPP Handwheels with fold-down grip with transverse bore

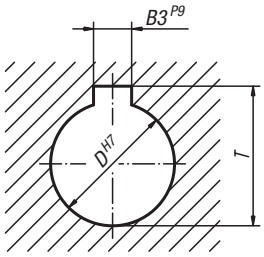
Order No. without slot	Order No. with slot	Size	D	D1	D2	D3	D4	D5	D6	D7	A	A1	H	H1	H2	L	L1	L2	B3	T
K0258.1080086	K0258.108008026	1	8	80	25	19	13	M4	13	M6	30	2,5	17,5	13	7,5	75	37,5	40	-/2	-/9
K0258.1080106	K0258.108010036	1	10	80	25	19	13	M4	13	M6	30	2,5	17,5	13	7,5	75	37,5	40	-/3	-/11,4
K0258.1080126	K0258.108012046	1	12	80	25	19	13	M4	13	M6	30	2,5	17,5	13	7,5	75	37,5	40	-/4	-/13,8
K0258.2100106	K0258.210010036	2	10	100	28	19	16	M5	16	M6	38	3	20	13	7,5	90	44	49	-/3	-/11,4
K0258.2100126	K0258.210012046	2	12	100	28	19	16	M5	16	M6	38	3	20	13	7,5	90	44	49	-/4	-/13,8
K0258.3125126	K0258.312512046	3	12	125	35	25	20	M6	20	M6	47,5	4	23,5	18,5	7,5	109	53	59,5	-/4	-/13,8
K0258.3125146	K0258.312514056	3	14	125	35	25	20	M6	20	M6	47,5	4	23,5	18,5	7,5	109	53	59,5	-/5	-/16,3
K0258.3125166	K0258.312516056	3	16	125	35	25	20	M6	20	M6	47,5	4	23,5	18,5	7,5	109	53	59,5	-/5	-/18,3
K0258.4160146	K0258.416014056	4	14	160	45	25	25	M8	26	M6	62	5,6	28	18,5	7,5	144	64,5	83,5	-/5	-/16,3
K0258.4160166	K0258.416016056	4	16	160	45	25	25	M8	26	M6	62	5,6	28	18,5	7,5	144	64,5	83,5	-/5	-/18,3

Handwheels

with safety grip



DIN 6885-1





Material:
Black grey thermoplastic.

Version:
Steel parts black oxidised.

Sample order:
K0259.108008

Note:
The hub cover is supplied loose. The handwheels can be secured using a transverse pin or by parallel key connection together with a DIN 6912 socket head screw and a DIN 7349 washer.
Two steps have to be carried out to bring the cylindrical safety grip into operating position:
- Swivel the grip around the axis of rotation until it stops (90°).
- Push grip in axial position into locking position.
  The pressed-in position is the most comfortable position to crank. When released, the grip automatically returns to original position.
  Versions with transverse bore are secured using the ISO 4026 (DIN 913) grub screw.
  For assembly examples, see K0256.

KIPP Handwheels with safety cylinder grip

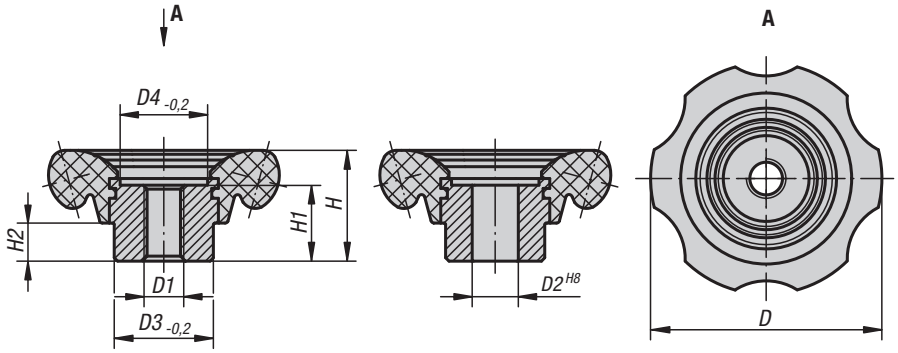
Order No. without slot	Order No. with slot	Size	D	D1	D2	D3	D4	D5	D6	A	A1	H	H1	L	L1	L2	B3	T
K0259.108008	K0259.10800802	1	8	80	25	19	13	M4	13	30	2,5	17,5	13	73	37,5	38	-/2	-/9
K0259.108010	K0259.10801003	1	10	80	25	19	13	M4	13	30	2,5	17,5	13	73	37,5	38	-/3	-/11,4
K0259.108012	K0259.10801204	1	12	80	25	19	13	M4	13	30	2,5	17,5	13	73	37,5	38	-/4	-/13,8
K0259.210010	K0259.21001003	2	10	100	28	19	16	M5	16	38	3	20	13	88,5	44	47,5	-/3	-/11,4
K0259.210012	K0259.21001204	2	12	100	28	19	16	M5	16	38	3	20	13	88,5	44	47,5	-/4	-/13,8
K0259.312512	K0259.31251204	3	12	125	35	25	20	M6	20	47,5	4	23,5	18,5	108	53	58,5	-/4	-/13,8
K0259.312514	K0259.31251405	3	14	125	35	25	20	M6	20	47,5	4	23,5	18,5	108	53	58,5	-/5	-/16,3
K0259.312516	K0259.31251605	3	16	125	35	25	20	M6	20	47,5	4	23,5	18,5	108	53	58,5	-/5	-/18,3
K0259.416014	K0259.41601405	4	14	160	45	25	25	M8	26	62	5,6	28	18,5	142,5	64,5	82	-/5	-/16,3
K0259.416016	K0259.41601605	4	16	160	45	25	25	M8	26	62	5,6	28	18,5	142,5	64,5	82	-/5	-/18,3

KIPP Handwheels with safety cylinder grip with transverse bore

Order No. without slot	Order No. with slot	Size	D	D1	D2	D3	D4	D5	D6	D7	A	A1	H	H1	H2	L	L1	L2	B3	T
K0259.1080086	K0259.108008026	1	8	80	25	19	13	M4	13	M6	30	2,5	17,5	13	7,5	73	37,5	38	-/2	-/9
K0259.1080106	K0259.108010036	1	10	80	25	19	13	M4	13	M6	30	2,5	17,5	13	7,5	73	37,5	38	-/3	-/11,4
K0259.1080126	K0259.108012046	1	12	80	25	19	13	M4	13	M6	30	2,5	17,5	13	7,5	73	37,5	38	-/4	-/13,8
K0259.2100106	K0259.210010036	2	10	100	28	19	16	M5	16	M6	38	3	20	13	7,5	88,5	44	47,5	-/3	-/11,4
K0259.2100126	K0259.210012046	2	12	100	28	19	16	M5	16	M6	38	3	20	13	7,5	88,5	44	47,5	-/4	-/13,8
K0259.3125126	K0259.312512046	3	12	125	35	25	20	M6	20	M6	47,5	4	23,5	18,5	7,5	108	53	58,5	-/4	-/13,8
K0259.3125146	K0259.312514056	3	14	125	35	25	20	M6	20	M6	47,5	4	23,5	18,5	7,5	108	53	58,5	-/5	-/16,3
K0259.3125166	K0259.312516056	3	16	125	35	25	20	M6	20	M6	47,5	4	23,5	18,5	7,5	108	53	58,5	-/5	-/18,3
K0259.4160146	K0259.416014056	4	14	160	45	25	25	M8	26	M6	62	5,6	28	18,5	7,5	142,5	64,5	82	-/5	-/16,3
K0259.4160166	K0259.416016056	4	16	160	45	25	25	M8	26	M6	62	5,6	28	18,5	7,5	142,5	64,5	82	-/5	-/18,3

Handwheels





Material:
Handwheel Duroplast PF 31.
Bush steel, black oxidised.

Version:
High-gloss polished, black.

Sample order:
K0184.70112

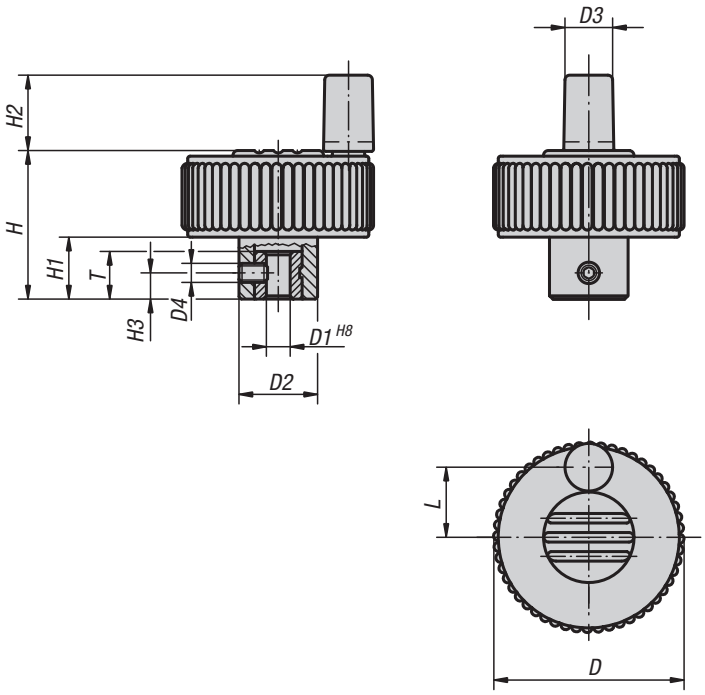
KIPP Handwheels

Order No.	Version	D	D1	D2	D3	D4	H	H1	H2
K0184.70110	internal thread	70	M10	-	30	26,5	33,5	23	11,5
K0184.70112	internal thread	70	M12	-	30	26,5	33,5	23	11,5
K0184.83112	internal thread	83	M12	-	35	31,5	40	28	14
K0184.83116	internal thread	83	M16	-	35	31,5	40	28	14
K0184.70212	reamed hole	70	-	12	30	26,5	33,5	23	11,5
K0184.70214	reamed hole	70	-	14	30	26,5	33,5	23	11,5
K0184.83214	reamed hole	83	-	14	35	31,5	40	28	14
K0184.83216	reamed hole	83	-	16	35	31,5	40	28	14

Knurled knobs

with grip





The extremly attractive design and the excellent ergonomic form make these knurled knobs trend-setting products which allow precise and secure positioning. Due to the sophisticated technology, the knurled knobs make any type of work easier than before.

Material:
Thermoplastic, black grey.
Bush steel 5.8.

Version:
Steel blue passivated.

Sample order:
K0262.21066 (cap colour traffic red)

Note:
Δ Add the desired cap colour here. No colour code is required for black grey caps.

Drawing reference:
Form H: without transverse hole
Form M: with transverse hole and grub screw

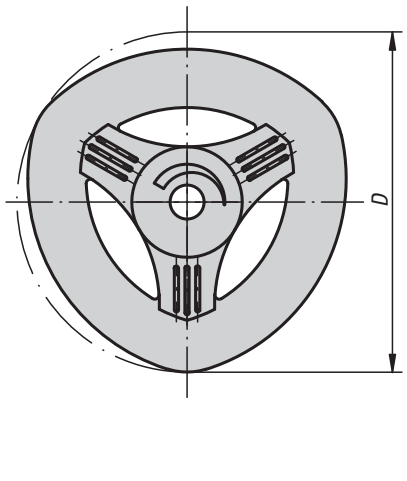
black grey	light grey Δ = 5	traffic red Δ = 6	bright yellow Δ = 7
 RAL 7021	 RAL 7035	 RAL 3020	 RAL 1021

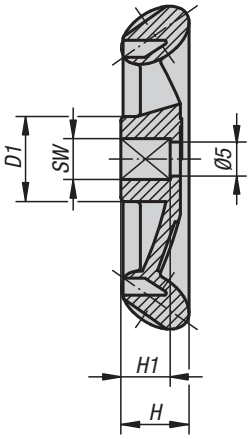
KIPP Knurled knobs with grip

Order No.	Form	Size	D	D1	D2	D3	D4	H	H1	H2	H3	L	T
K0262.2106Δ	H	1	40	6	16,5	10	-	31	13	16	-	15	10
K0262.2206Δ	H	2	50	6	18	10	-	36	15	16	-	18,5	10
K0262.2308Δ	H	3	63	8	22	10	-	41	17	16	-	25	14
K0262.1106Δ	M	1	40	6	16,5	10	M4	31	13	16	5,5	15	10
K0262.1206Δ	M	2	50	6	18	10	M4	36	15	16	5,5	18,5	10
K0262.1308Δ	M	3	63	8	22	10	M4	41	17	16	8	25	14

Deltawheels







NOVO grip Deltawheels lend your ideas a concrete form and definite shape. Apart from being attractive, the delta form of these handwheels also offers a really comfortable and secure grip.

Material:
Fibreglass reinforced thermoplastic.

Sample order:
K0275.050051 (colour signal green)

Note:
Δ Add the desired colour here. No colour code is required for black grey.

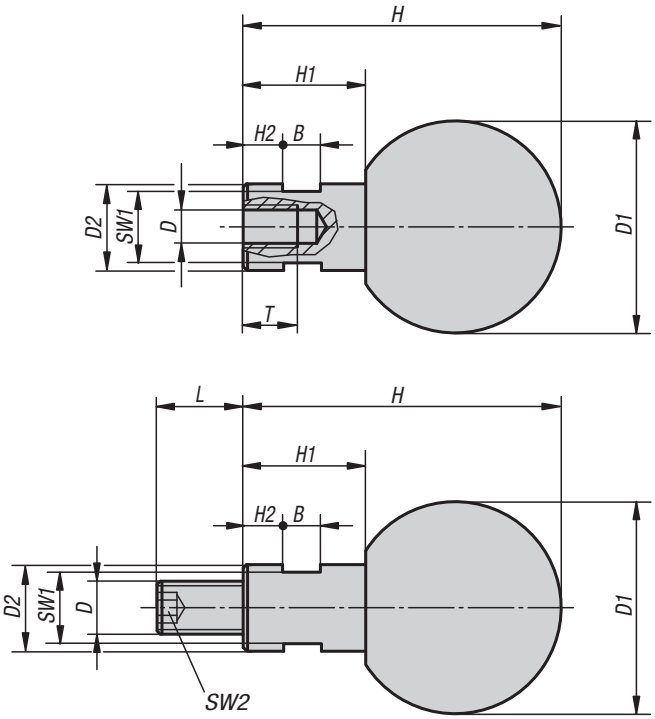
black grey	signal green Δ = 1	traffic red Δ = 2	bright yellow Δ = 3	traffic blue Δ = 4
 RAL 7021	 RAL 6032	 RAL 3020	 RAL 1021	 RAL 5017

KIPP Deltawheels

Order No.	Size	D	D1	H	H1	Square socket SW
K0275.05005Δ	1	50	12,5	10	7,3	5
K0275.05006Δ	1	50	12,5	10	7,3	6
K0275.06306Δ	2	63	15,8	12,6	9	6
K0275.06307Δ	2	63	15,8	12,6	9	7
K0275.08008Δ	3	80	20	16	12	8
K0275.08009Δ	3	80	20	16	12	9

Ball grips revolving





Material:
Ball Duroplast PF 31.
Bush and screw steel or stainless steel 1.4305.

Version:
Ball black glossy.
Steel blue passivated.
Stainless steel bright.

Sample order:
K0726.061

KIPP Ball grips revolving with female thread

Order No. Steel	Order No. Stainless steel	D	D1	D2	T	H	H1	H2	B	SW1
K0726.060	**K0726.1060**	M6	25	10	12,5	37,5	15	5	5	8
K0726.080	**K0726.1080**	M8	32	13	15	48,5	19	6	6	10
K0726.100	**K0726.1100**	M10	40	16	19	61	24	8	8	13
K0726.120	**K0726.1120**	M12	50	20	21,5	78	31	12	10	17

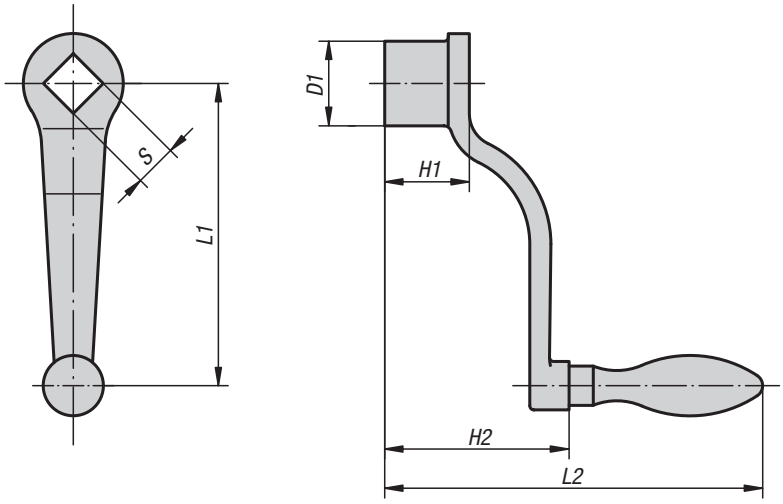
KIPP Ball grips revolving with male thread

Order No. Steel	Order No. Stainless steel	D	D1	D2	L	H	H1	H2	B	SW1	SW2
K0726.061	**K0726.1061**	M6	25	10	11	37,5	15	5	5	8	3
K0726.081	**K0726.1081**	M8	32	13	13	48,5	19	6	6	10	4
K0726.101	**K0726.1101**	M10	40	16	14	61	24	8	8	13	5
K0726.121	**K0726.1121**	M12	50	20	21	78	31	12	10	17	6

Crank handles offset

similar to DIN 468





Material:
Crank arm malleable or ductile iron.

Version:
Blasted.

Sample order:
K0684.212X14

Drawing reference:
Form D: with revolving handle
Form F: with fixed handle

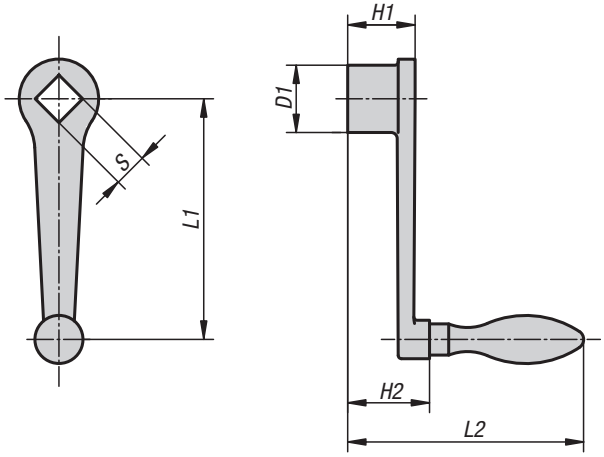
KIPP Crank handles offset similar DIN 468

Order No.	Form	L1	L2	S	D1	H1	H2	Grip Ø
K0684.206X10	D	63	92	10 +0,2	20	20	40	16
K0684.208X10	D	80	109	10 +0,2	24	24	44	20
K0684.208X12	D	80	109	12 +0,2	24	24	44	20
K0684.210X12	D	100	120	12 +0,2	28	28	55	20
K0684.210X14	D	100	120	14 +0,3	28	28	55	20
K0684.212X14	D	125	141	14 +0,3	34	34	58	25
K0684.212X17	D	125	141	17 +0,3	34	34	58	25
K0684.216X17	D	160	153	17 +0,3	37	38	70	25
K0684.216X19	D	160	153	19 +0,3	37	38	70	25
K0684.220X19	D	200	189	19 +0,3	40	44	84	32
K0684.220X22	D	200	189	22 +0,3	40	44	84	32
K0684.106X10	F	63	92	10 +0,2	20	20	40	16
K0684.108X10	F	80	109	10 +0,2	24	24	44	20
K0684.108X12	F	80	109	12 +0,2	24	24	44	20
K0684.110X12	F	100	120	12 +0,2	28	28	55	20
K0684.110X14	F	100	120	14 +0,3	28	28	55	20
K0684.112X14	F	125	141	14 +0,3	34	34	58	25
K0684.112X17	F	125	141	17 +0,3	34	34	58	25
K0684.116X17	F	160	153	17 +0,3	37	38	70	25
K0684.116X19	F	160	153	19 +0,3	37	38	70	25
K0684.120X19	F	200	189	19 +0,3	40	44	84	32
K0684.120X22	F	200	189	22 +0,3	40	44	84	32

Crank handles straight

similar to DIN 469





Material:
Crank arm malleable or ductile iron.

Version:
Blasted.

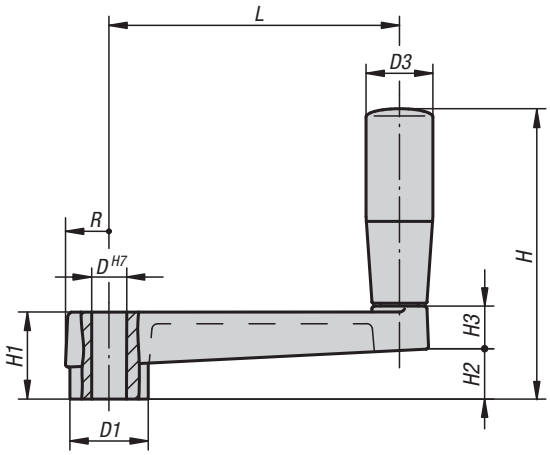
Sample order:
K0685.120X22

Drawing reference:
Form D: with revolving handle
Form F: with fixed handle

KIPP Crank handles straight similar DIN 469

Order No.	Form	L1	L2	S	D1	H1	H2	Grip Ø
K0685.206X10	D	63	80	10 +0,2	20	20	28	16
K0685.208X10	D	80	98	10 +0,2	24	24	33	20
K0685.208X12	D	80	98	12 +0,2	24	24	33	20
K0685.210X12	D	100	102	12 +0,2	28	28	37	20
K0685.210X14	D	100	102	14 +0,3	28	28	37	20
K0685.212X14	D	125	120	14 +0,3	34	34	40	25
K0685.212X17	D	125	120	17 +0,3	34	34	40	25
K0685.216X17	D	160	131	17 +0,3	37	38	48	25
K0685.216X19	D	160	131	19 +0,3	37	38	48	25
K0685.220X19	D	200	158	19 +0,3	40	44	53	32
K0685.220X22	D	200	158	22 +0,3	40	44	53	32
K0685.106X10	F	63	80	10 +0,2	20	20	28	16
K0685.108X10	F	80	98	10 +0,2	24	24	33	20
K0685.108X12	F	80	98	12 +0,2	24	24	33	20
K0685.110X12	F	100	102	12 +0,2	28	28	37	20
K0685.110X14	F	100	102	14 +0,3	28	28	37	20
K0685.112X14	F	125	120	14 +0,3	34	34	40	25
K0685.112X17	F	125	120	17 +0,3	34	34	40	25
K0685.116X17	F	160	131	17 +0,3	37	38	48	25
K0685.116X19	F	160	131	19 +0,3	37	38	48	25
K0685.120X19	F	200	158	19 +0,3	40	44	53	32
K0685.120X22	F	200	158	22 +0,3	40	44	53	32

Crank handles aluminium





Material:
Aluminium.
Grip thermoplastic.

Version:
Arm plastic-coated, black.
Grip black.

Sample order:
K0727.100

KIPP Crank handles aluminium

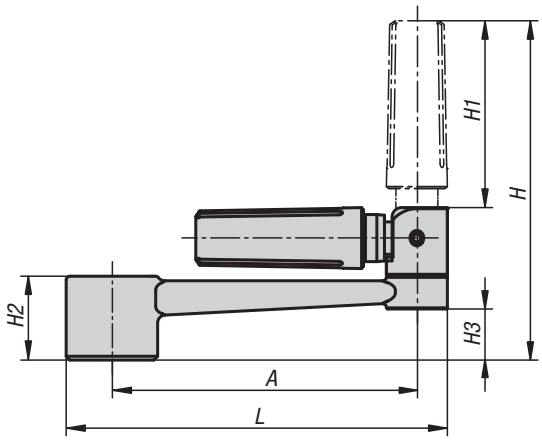
Order No.	D	D1	D3	H	H1	H2	H3	L	R
K0727.100	10	23	21	81	24	14	14	80	13
K0727.120	12	27	23	100	28	17	15	100	15
K0727.140	14	32	26	123	34	22	18	125	17,5

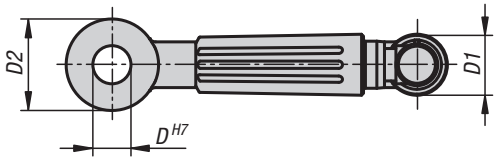
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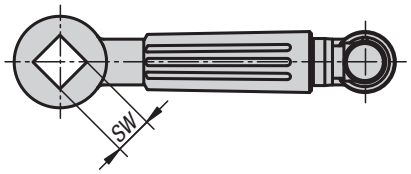
Crank handles aluminium

with fold-away grip









Material:
Crank AlSi9Cu3 (3.2163).
Cylinder grip thermoplastic (PA6) and steel.

Version:
Crank plastic powder coated, black.
Thermoplastic black.
Steel parts black oxidised.

Sample order:
K0997.1110

Note:
Similar to DIN 469.

KIPP Crank handles aluminium with fold-away cylinder grip

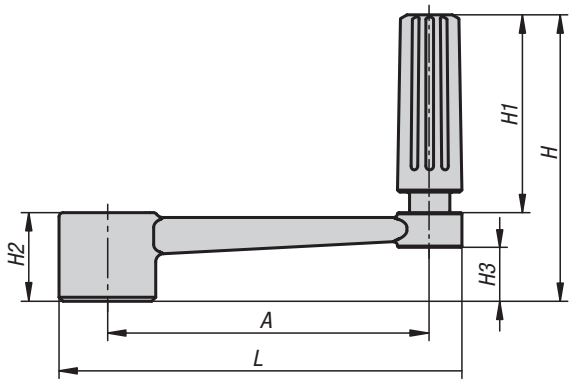
Order No.	Version	D	D1	D2	H	H1	H2	H3	A	L
K0997.1110	reamed hole	10	16	24	89	49	22	13,4	80	100
K0997.1212	reamed hole	12	20	28	107,9	59,4	26	16	100	124
K0997.1314	reamed hole	14	26	30	140,5	83,5	28	15,8	125	153
K0997.1417	reamed hole	17	26	34	144,5	83,5	32	19,6	160	190

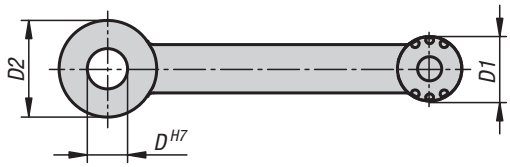
Order No.	Version	SW (square)	D1	D2	H	H1	H2	H3	A	L
K0997.2110	square socket	10	16	24	89	49	22	13,4	80	100
K0997.2212	square socket	12	20	28	107,9	59,4	26	16	100	124
K0997.2314	square socket	14	26	30	140,5	83,5	28	15,8	125	153
K0997.2417	square socket	17	26	34	144,5	83,5	32	19,6	160	190

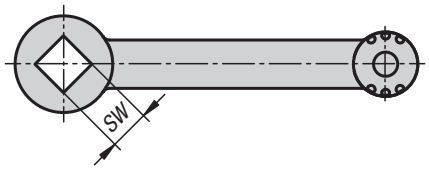
Crank handles aluminium

with revolving grip









Material:
Crank AlSi9Cu3 (3.2163).
Revolving grip thermoplastic (PA6) and steel (1.0718).

Version:
Crank plastic powder coated, black.
Thermoplastic black.
Steel parts black oxidised.

Sample order:
K0996.3110

Note:
Similar to DIN 469.

KIPP Crank handles aluminium with cylindrical revolving grip

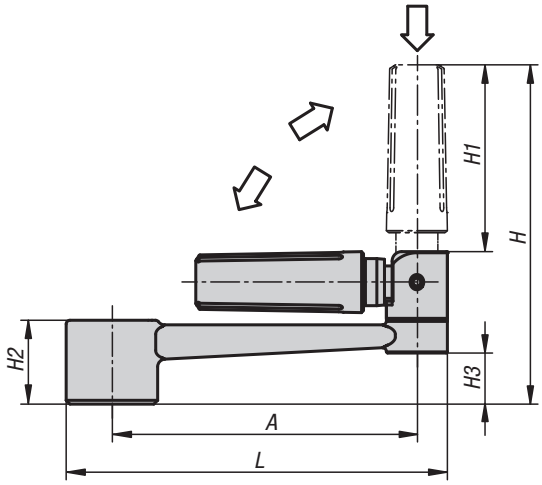
Order No.	Version	D	D1	D2	H	H1	H2	H3	A	L
K0996.3110	reamed hole	10	16	24	71,1	49,1	22	13,4	80	100
K0996.3212	reamed hole	12	20	28	87,4	61,4	26	16	100	124
K0996.3314	reamed hole	14	26	30	111	83	28	15,8	125	153
K0996.3417	reamed hole	17	26	34	115	83	32	19,6	160	190

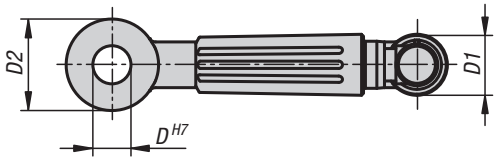
Order No.	Version	SW (square)	D1	D2	H	H1	H2	H3	A	L
K0996.4110	square socket	10	16	24	71,1	49,1	22	13,4	80	100
K0996.4212	square socket	12	20	28	87,4	61,4	26	16	100	124
K0996.4314	square socket	14	26	30	111	83	28	15,8	125	153
K0996.4417	square socket	17	26	34	115	83	32	19,6	160	190

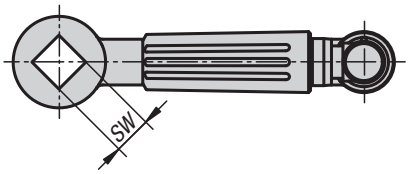
Crank handles aluminium

with safety grip









Material:
Crank AlSi9Cu3 (3.2163).
Safety cylinder grip thermoplastic (PA6) and steel.

Version:
Crank plastic powder coated, black.
Thermoplastic black.
Steel black oxidised.

Sample order:
K0998.1110

Note:
Similar to DIN 469.

KIPP Crank handle aluminium with safety cylinder grip

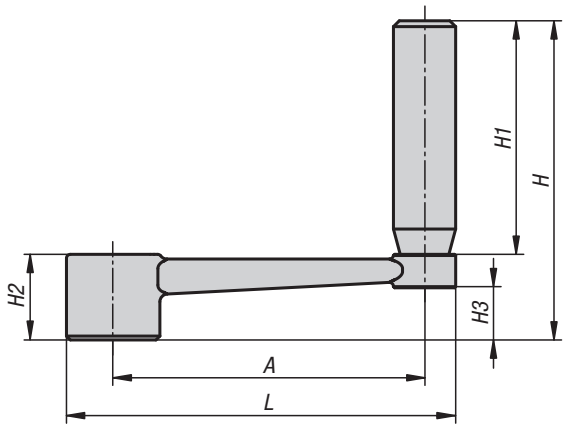
Order No.	Version	D	D1	D2	H	H1	H2	H3	A	L
K0998.1110	reamed hole	10	16	24	87,5	47,5	22	13,4	80	100
K0998.1212	reamed hole	12	20	28	106,9	58,4	26	16	100	124
K0998.1314	reamed hole	14	26	30	139,1	82,1	28	15,8	125	153
K0998.1417	reamed hole	17	26	34	143,1	82,1	32	19,6	160	190

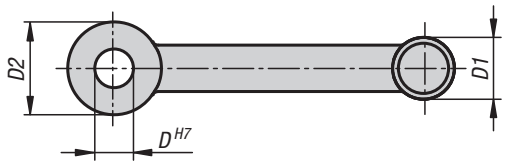
Order No.	Version	SW (square)	D1	D2	H	H1	H2	H3	A	L
K0998.2110	square socket	10	16	24	87,5	47,5	22	13,4	80	100
K0998.2212	square socket	12	20	28	106,9	58,4	26	16	100	124
K0998.2314	square socket	14	26	30	139,1	82,1	28	15,8	125	153
K0998.2417	square socket	17	26	34	143,1	82,1	32	19,6	160	190

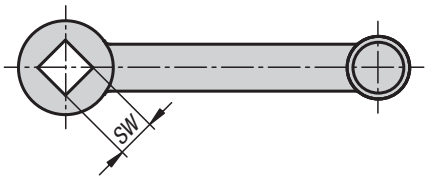
Crank handles stainless steel

with revolving grip









Material:
Crank stainless steel 1.4308.
Axle pin stainless steel 1.4305.
Revolving grip stainless steel 1.4305.
Retaining ring stainless-steel 1.4310.

Version:
Bright.

Sample order:
K0999.3110

Note:
Similar to DIN 469.

KIPP Crank handles stainless steel with cylindrical revolving grip

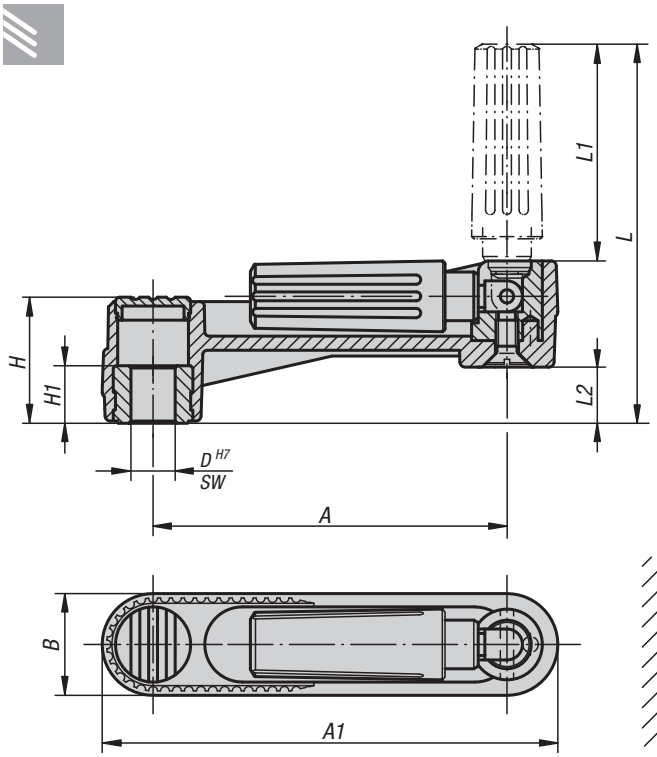
Order No.	Version	D	D1	D2	H	H1	H2	H3	A	L
K0999.3110	reamed hole	10	16	24	82	60	22	13,4	80	100
K0999.3212	reamed hole	12	20	28	98	72	26	16	100	124
K0999.3314	reamed hole	14	26	30	118	90	28	15,8	125	153
K0999.3417	reamed hole	17	26	34	122	90	32	19,6	160	190

Order No.	Version	SW (square)	D1	D2	H	H1	H2	H3	A	L
K0999.4110	square socket	10	16	24	82	60	22	13,4	80	100
K0999.4212	square socket	12	20	28	98	72	26	16	100	124
K0999.4314	square socket	14	26	30	118	90	28	15,8	125	153
K0999.4417	square socket	17	26	34	122	90	32	19,6	160	190

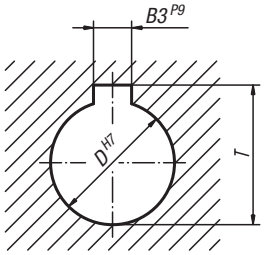
Crank handles

with fold-down grip





DIN 6885-1



NOVO grip crank handles have standard centre distances. These handles come with fold-down grips, highly reinforced plastics and can be mounted on round or square shafts. They can be secured radially or axially.

Material:
Black grey thermoplastic.

Version:
Steel parts black oxidised.

Sample order:
K0266.1108

Note:
The hub cap is supplied loose.
The crank handle can be secured to a shaft using a transverse pin or by parallel key connection together with a DIN 6912 socket head screw and a DIN 7349 washer.

KIPP Crank handles with fold-down grip

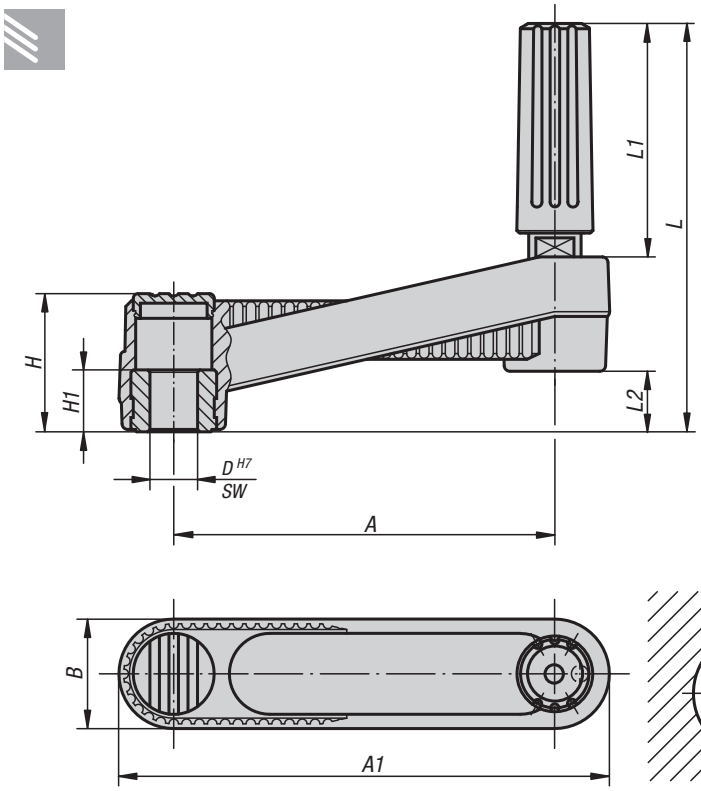
Order No.	Version	Size	A	A1	B	D	H	H1	L	L1	L2
K0266.1108	without slot	1	80	104	24	8	29	13	85,5	49	13
K0266.1110	without slot	1	80	104	24	10	29	13	85,5	49	13
K0266.1210	without slot	2	100	129	29	10	36	13	105	59,5	16
K0266.1212	without slot	2	100	129	29	12	36	13	105	59,5	16
K0266.1312	without slot	3	125	161	36	12	44	18,5	140	83,5	19,5
K0266.1314	without slot	3	125	161	36	14	44	18,5	140	83,5	19,5

Order No.	Version	Size	A	A1	B	D	H	H1	L	L1	L2	B3	T
K0266.110802	with slot	1	80	104	24	8	29	13	85,5	49	13	2	9
K0266.111003	with slot	1	80	104	24	10	29	13	85,5	49	13	3	11,4
K0266.121003	with slot	2	100	129	29	10	36	13	105	59,5	16	3	11,4
K0266.121204	with slot	2	100	129	29	12	36	13	105	59,5	16	4	13,8
K0266.131204	with slot	3	125	161	36	12	44	18,5	140	83,5	19,5	4	13,8
K0266.131405	with slot	3	125	161	36	14	44	18,5	140	83,5	19,5	5	16,3

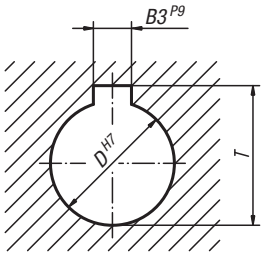
Order No.	Version	Size	A	A1	B	SW	H	H1	L	L1	L2
K0266.2108	square socket	1	80	104	24	8	29	13	85,5	49	13
K0266.2110	square socket	1	80	104	24	10	29	13	85,5	49	13
K0266.2210	square socket	2	100	129	29	10	36	13	105	59,5	16
K0266.2212	square socket	2	100	129	29	12	36	13	105	59,5	16
K0266.2312	square socket	3	125	161	36	12	44	18,5	140	83,5	19,5
K0266.2314	square socket	3	125	161	36	14	44	18,5	140	83,5	19,5

Crank handles

with revolving grip



DIN 6885-1





NOVO grip crank handles set the trend in all fields. They combine sophisticated technology with easy handling and universal application.

Material:
Black grey thermoplastic.

Version:
Steel parts black oxidised.

Sample order:
K0659.3108

Note:
The hub cap and the revolving grip are supplied loose. To assemble the handle simply screw the grip into the existing hole. Novo·Grip crank handles can be secured to a shaft by using a transverse pin or by parallel key connection together with a DIN 6912 socket head screw and a DIN 7349 washer.

KIPP Crank handles with revolving grip

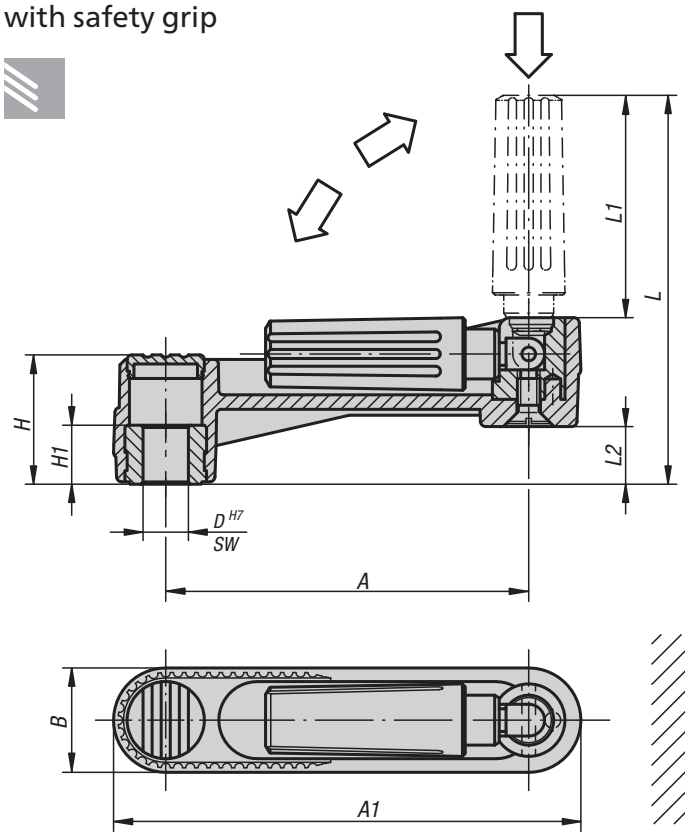
Order No.	Version	Size	A	A1	B	D	H	H1	L	L1	L2
K0659.3108	without slot	1	80	104	24	8	29	13	85,5	49	13
K0659.3110	without slot	1	80	104	24	10	29	13	85,5	49	13
K0659.3210	without slot	2	100	129	29	10	36	13	105	59,5	16
K0659.3212	without slot	2	100	129	29	12	36	13	105	59,5	16
K0659.3312	without slot	3	125	161	36	12	44	18,5	140	83,5	19,5
K0659.3314	without slot	3	125	161	36	14	44	18,5	140	83,5	19,5

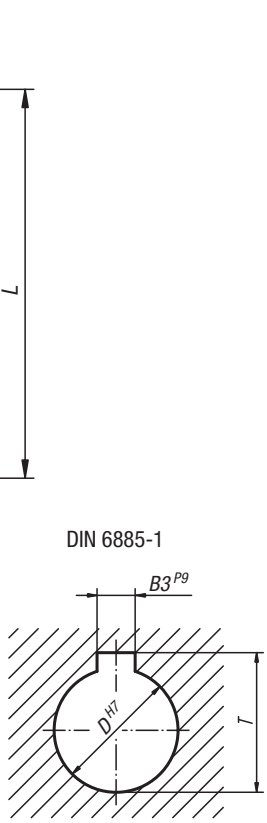
Order No.	Version	Size	A	A1	B	D	H	H1	L	L1	L2	B3	T
K0659.310802	with slot	1	80	104	24	8	29	13	85,5	49	13	2	9
K0659.311003	with slot	1	80	104	24	10	29	13	85,5	49	13	3	11,4
K0659.321003	with slot	2	100	129	29	10	36	13	105	59,5	16	3	11,4
K0659.321204	with slot	2	100	129	29	12	36	13	105	59,5	16	4	13,8
K0659.331204	with slot	3	125	161	36	12	44	18,5	140	83,5	19,5	4	13,8
K0659.331405	with slot	3	125	161	36	14	44	18,5	140	83,5	19,5	5	16,3

Order No.	Version	Size	A	A1	B	SW	H	H1	L	L1	L2
K0659.4108	square socket	1	80	104	24	8	29	13	85,5	49	13
K0659.4110	square socket	1	80	104	24	10	29	13	85,5	49	13
K0659.4210	square socket	2	100	129	29	10	36	13	105	59,5	16
K0659.4212	square socket	2	100	129	29	12	36	13	105	59,5	16
K0659.4312	square socket	3	125	161	36	12	44	18,5	140	83,5	19,5
K0659.4314	square socket	3	125	161	36	14	44	18,5	140	83,5	19,5

Crank handles

with safety grip







Material:
Arm and grip black grey thermoplastic.

Version:
Steel parts black oxidised.

Sample order:
K0268.1108

Note:
The hub cover is supplied loose.
The crank handles can be secured to the shaft by cross-pinning or by parallel key together with a DIN 6912 socket head screw and DIN 7349 washer.
Two actions must be made to bring the safety grip into an operating position:
- Swing the grip out until it stops (90°).
- Push the grip in until it locks.

The pushed-in position is the most comfortable for cranking. The grip swings back automatically after releasing.

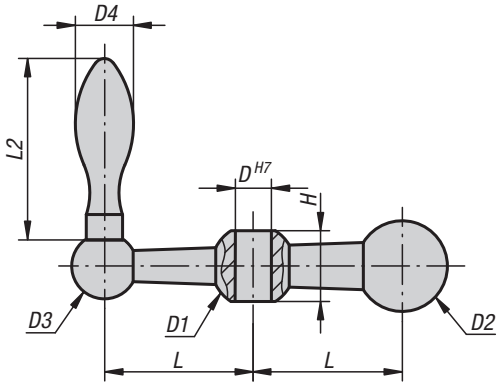
KIPP Crank handles with safety grip

Order No.	Version	Size	A	A1	B	D	H	H1	L	L1	L2
K0268.1108	without slot	1	80	104	24	8	29	13	84	47,5	13
K0268.1110	without slot	1	80	104	24	10	29	13	84	47,5	13
K0268.1210	without slot	2	100	129	29	10	36	13	104	58,5	16
K0268.1212	without slot	2	100	129	29	12	36	13	104	58,5	16
K0268.1312	without slot	3	125	161	36	12	44	18,5	138,5	82	19,5
K0268.1314	without slot	3	125	161	36	14	44	18,5	138,5	82	19,5

Order No.	Version	Size	A	A1	B	D	H	H1	L	L1	L2	B3	T
K0268.110802	with slot	1	80	104	24	8	29	13	84	47,5	13	2	9
K0268.111003	with slot	1	80	104	24	10	29	13	84	47,5	13	3	11,4
K0268.121003	with slot	2	100	129	29	10	36	13	104	58,5	16	3	11,4
K0268.121204	with slot	2	100	129	29	12	36	13	104	58,5	16	4	13,8
K0268.131204	with slot	3	125	161	36	12	44	18,5	138,5	82	19,5	4	13,8
K0268.131405	with slot	3	125	161	36	14	44	18,5	138,5	82	19,5	5	16,3

Order No.	Version	Size	A	A1	B	SW	H	H1	L	L1	L2
K0268.2108	square socket	1	80	104	24	8	29	13	84	47,5	13
K0268.2110	square socket	1	80	104	24	10	29	13	84	47,5	13
K0268.2210	square socket	2	100	129	29	10	36	13	104	58,5	16
K0268.2212	square socket	2	100	129	29	12	36	13	104	58,5	16
K0268.2312	square socket	3	125	161	36	12	44	18,5	138,5	82	19,5
K0268.2314	square socket	3	125	161	36	14	44	18,5	138,5	82	19,5

Crank handles balanced





Material:
Steel.

Version:
galvanized.

Sample order:
K0728.108

Note:
Fixed handle DIN 39.

KIPP Balanced handles

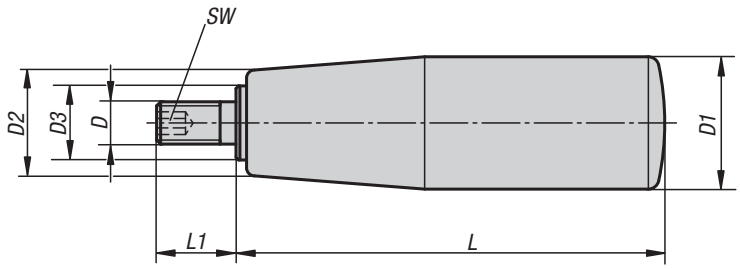
Order No.	D	D1	D2	D3	D4	H	L	L2
K0728.107	7	16	18	13	10	13	25	32
K0728.108	8	20	22	16	14	17	34	46
K0728.110	10	23	25	18	16	19,5	41	50
K0728.112	12	26	28	20	18	21,5	50	56

Notes

Cylindrical grips revolving

with hexagon socket





Material:
Grip thermoplastic.
Steel parts galvanized.

Version:
Black satin finished.

Sample order:
K0740.08230620

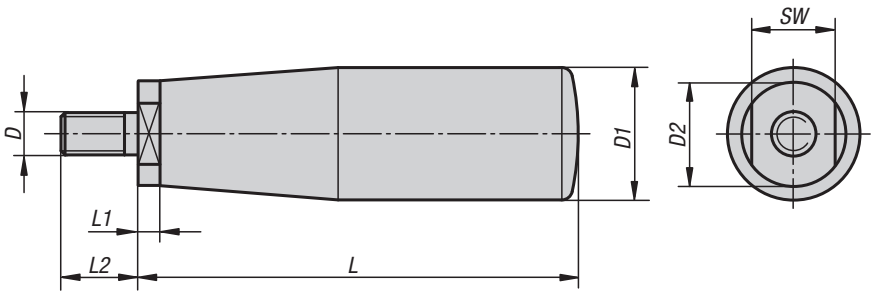
Note:
Cylindrical grips can be screwed onto our handwheels, crank handles etc.

KIPP Cylinder grips revolving with hexagon socket

Order No.	D	D1	D2	D3	L	L1	SW
K0740.06200520	M6	20	15	10	51	12	3
K0740.06230620	M6	23	18	10	62	12	3
K0740.08230620	M8	23	18	10	62	15	4
K0740.08250720	M8	25	19	10	71	15	4
K0740.10250720	M10	25	19	10	71	15	4
K0740.08250810	M8	26	22	14	81	15	4
K0740.10250810	M10	26	22	14	81	15	5
K0740.12260820	M12	26	22	14	81	15	5
K0740.10270930	M10	27	22	14	92	15	5
K0740.12270930	M12	27	22	14	92	15	5

Cylindrical grips revolving





Material:
Grip thermoplastic.
Steel parts galvanized.

Version:
Black satin finished.

Sample order:
K0774.08230600

Note:
Cylindrical grips can be screwed onto our handwheels, crank handles etc.

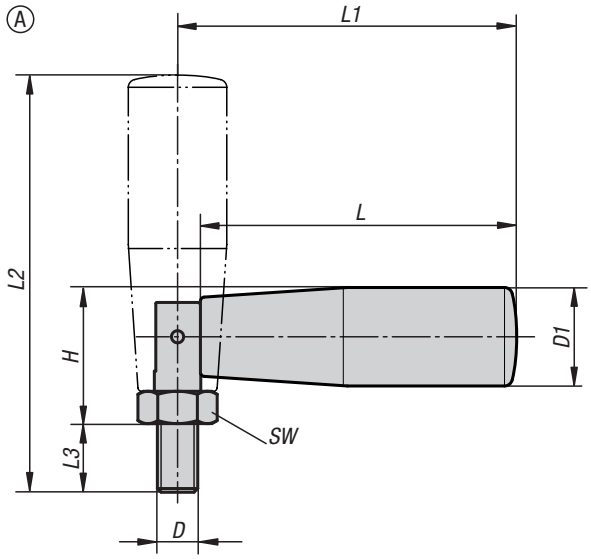
KIPP Cylindrical revolving grips

Order No.	D	D1	D2	L	L1	L2	SW
K0774.06200500	M6	20	12	55	5	12	10
K0774.08230600	M8	23	14	67	7	15	13
K0774.08250690	M8	25	14	77	7	15	13
K0774.10250690	M10	25	14	77	7	15	13
K0774.10250800	M10	26	18	86	7	15	16
K0774.12250800	M12	26	18	86	7	15	16
K0774.10270890	M10	27	18	97	7	15	16
K0774.12270890	M12	27	18	97	7	15	16

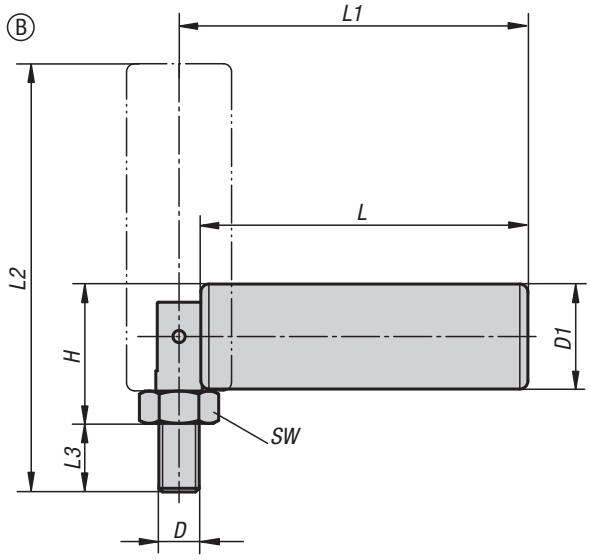
Cylindrical grips fold-down



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Material:
Grip thermoplastic.
Steel parts black oxidised.

Version:
Black satin finished.

Sample order:
K0775.10260890

Note:
Cylindrical grips can be screwed onto our handwheels, crank handles etc.

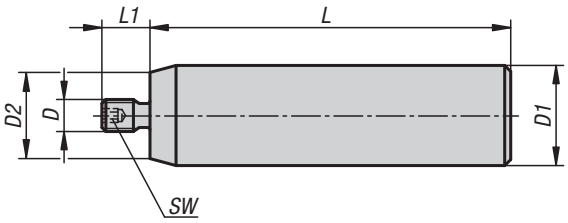
KIPP Cylindrical grips fold-down

Order No.	Form	D	D1	SW	L	L1	L2	L3	H
K0775.06200490	A	M6	20	10	49	53	63	9	24,5
K0775.08250690	A	M8	25	13	70	74	87,5	11	28
K0775.10260890	B	M10	26	17	90	96	114	16	34

Cylindrical grips revolving

stainless steel





Material:
Axis stainless steel 1.4305.
Revolving grip stainless steel 1.4305.
Snap ring stainless-steel 1.4310.

Version:
Bright.

Sample order:
K1000.105

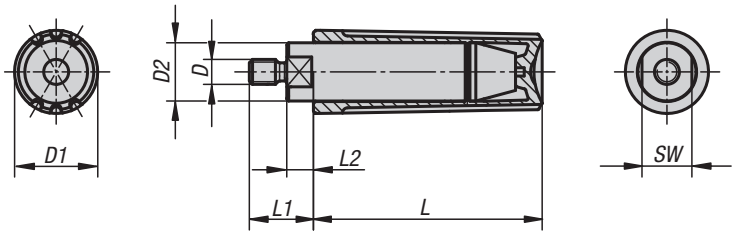
Assembly:
Screw in using hexagon socket in axis.

KIPP Cylindrical grips, revolving, stainless steel

Order No.	D	D1	D2	L	L1	SW
K1000.105	M5	16	12,5	60	8	3
K1000.206	M6	20	16,5	72	9	3
K1000.308	M8	25	21,5	90	12	3

Cylindrical grips revolving





The harmonic interplay of form and function make these NOVO grip cylindrical grips to a universally applicable product. The quality is characterised by aesthetics, reliability and perfect handling.

Material:
Black grey thermoplastic.

Version:
Steel parts black oxidised.

Sample order:
K0263.104

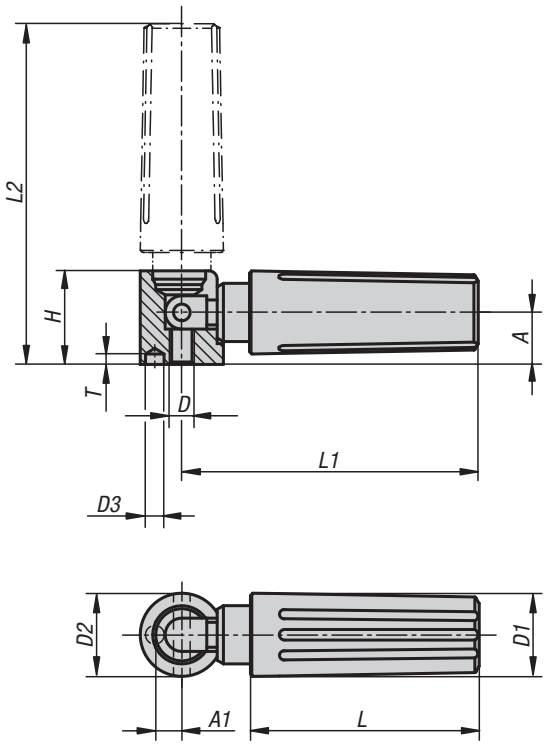
Note:
Cylindrical grips are supplied assembled and can be screwed onto our handwheels, crank handles etc.

KIPP Cylindrical grips revolving

Order No.	Size	D	D1	D2	L	L1	L2	SW
K0263.104	1	M4	13	9	35	11	5	8
K0263.205	2	M5	16	11	44	13	5,5	10
K0263.306	3	M6	20	14	55	14	5	12
K0263.408	4	M8	25	18	70,5	25	13	15

Cylindrical grips fold-down





The harmonic interplay of form and function make these NOVO grip cylindrical grips to a universally applicable product. The quality is characterised by aesthetics, reliability and perfect handling.

Material:
Black grey thermoplastic.

Version:
Steel parts black oxidised.

Sample order:
K0264.104

Note:
Cylindrical grips are supplied assembled and can be screwed to our handwheels, crank handles etc.
The hole D3 is used for positioning.

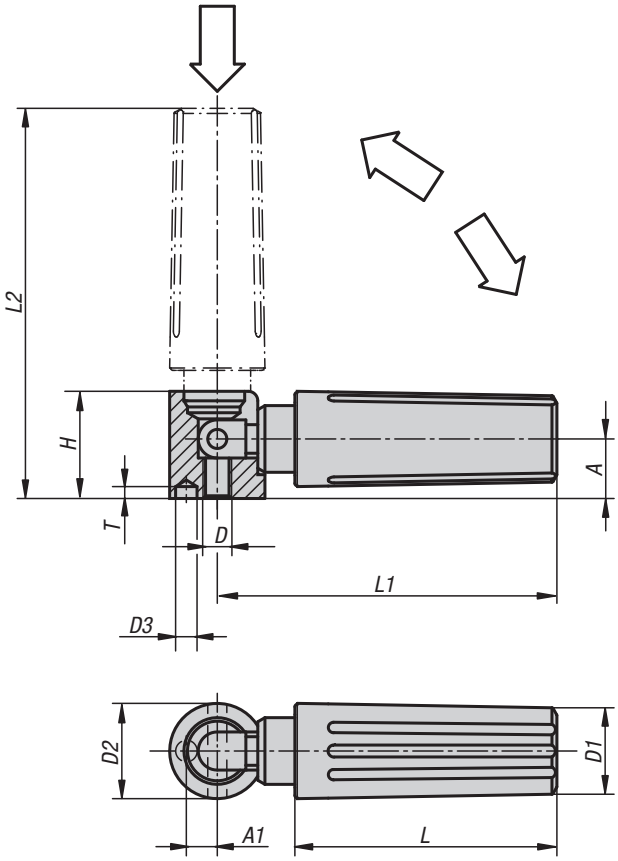
KIPP Cylindrical grips fold-down

Order No.	Size	D	D1	D2	D3	A	A1	H	L	L1	L2	T
K0264.104	1	M4	13	13	2,5	8	4,3	14,5	35	47	54,5	4,5
K0264.205	2	M5	16	16	3,5	10	5,3	18	44	58	67	4,5
K0264.306	3	M6	20	20	4,5	12,5	6,5	22,5	55	71,5	82	6
K0264.408	4	M8	25	26	5,5	16	9	29	70,5	98,5	112,5	6,5

Cylindrical grips

safety automatic return





The characteristics of the standard cylindrical grip also apply to the automatic return safety cylindrical grip.
Optimum functionality and sophisticated safety technology are here ideally combined.

Material:
Grip black grey thermoplastic.

Version:
Steel parts black oxidised.

Sample order:
K0265.104

Note:
Two actions must be made to bring the safety grip into an operating position:
- Swing the grip out until it stops (90°).
- Push the grip in until it locks.
  The pushed-in position is the most comfortable for cranking. The grip swings back automatically after releasing.
  Cylindrical grips are supplied assembled and can be screwed onto our handwheels, crank handles etc.
  The hole D3 is used for positioning.

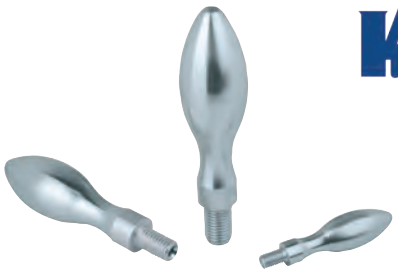
KIPP Cylindrical grips safety automatic return

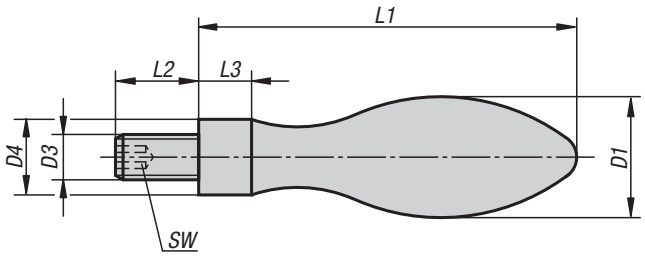
Order No.	Size	D	D1	D2	D3	A	A1	H	L	L1	L2	T
K0265.104	1	M4	13	13	2,5	8	4,3	14,5	35	47	52,5	4,5
K0265.205	2	M5	16	16	3,5	10	5,3	18	44	58	65,5	4,5
K0265.306	3	M6	20	20	4,5	12,5	6,5	22,5	55	71,5	81	6
K0265.408	4	M8	25	26	5,5	16	9	29	70,5	98,5	111	6,5

K0166

Machine handles fixed

steel, DIN 39 Form E





Material:
Grip and screw steel.

Version:
Grip and axle part galvanized and blue passivated.

Sample order:
K0166.0616050

Note:
Machine handle suitable for DIN 950 handwheels.

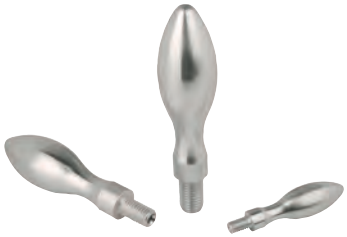
KIPP Machine handles fixed, steel, DIN 39 Form E

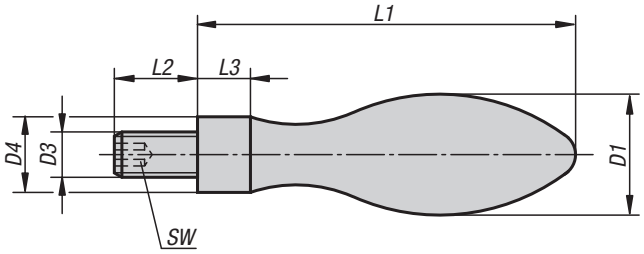
Order No.	D1	D3	D4	L1	L2	L3	SW
K0166.0616050	16	M6	10	50	11	7	3
K0166.0820064	20	M8	13	64	13	8	4
K0166.1025080	25	M10	16	80	14	10	5
K0166.1232100	32	M12	20	100	21	13	6
K0166.1636112	36	M16	22	112	26	14	8

K1199

Machine handles fixed

DIN 39 Form E, stainless steel





Material:
Stainless steel 1.4305.

Version:
Electropolished.

Sample order:
K1199.0616050

Note:
Machine handle suitable for DIN 950 handwheels.

KIPP Machine handles, fixed, DIN 39 Form E, stainless steel

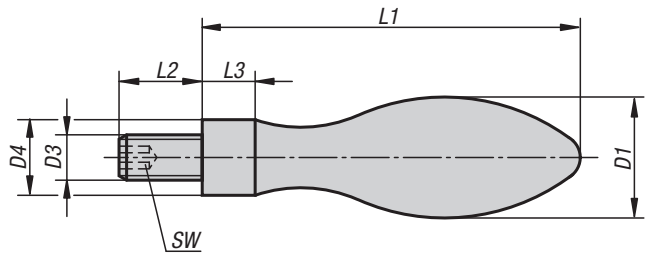
Order No.	D1	D3	D4	L1	L2	L3	SW
K1199.0616050	16	M6	10	50	11	7	3
K1199.0820064	20	M8	13	64	13	8	4
K1199.1025080	25	M10	16	80	14	10	5

K0167

Machine handles fixed

aluminium, DIN 39 Form E





Material:
Grip aluminium.
Screw steel.

Version:
Grip polished.
Screw black.

Sample order:
K0167.0616050

Note:
Machine handle suitable for DIN 950 handwheels.

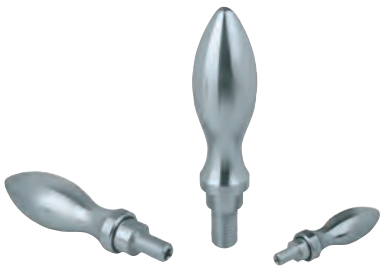
KIPP Machine handles fixed, aluminium, DIN 39 Form E

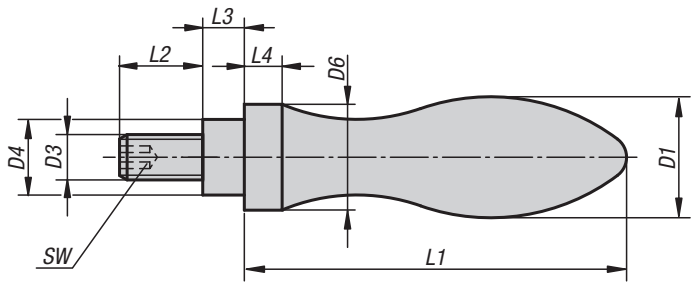
Order No.	D1	D3	D4	L1	L2	L3	SW
K0167.0616050	16	M6	10	50	11	7	3
K0167.0820064	20	M8	13	64	13	8	4
K0167.1025080	25	M10	16	80	14	10	5
K0167.1232100	32	M12	20	100	21	13	6
K0167.1636112	36	M16	22	112	26	14	8

K0168

Machine handles revolving

similar to DIN 98 Form E, steel





Material:
Grip and screw steel.

Version:
Grip and axle part galvanized and blue passivated.

Sample order:
K0168.0616055

Note:
Machine handles with D1=25 mm and 32 mm have a thread length L2 that is shorter than the length specified in DIN 98. Machine handles are suitable for DIN 950 handwheels.

KIPP Machine handles revolving, similar to DIN 98 Form E, steel

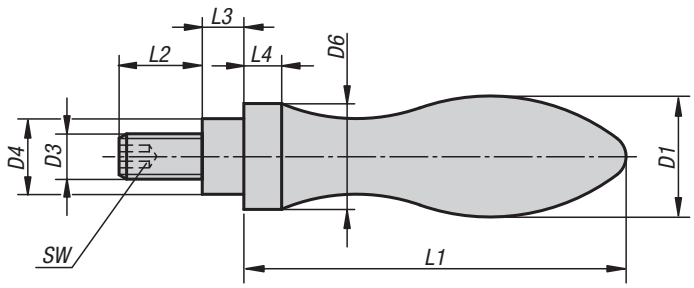
Order No.	D1	D3	D4	D6	L1	L2	L3	L4	SW
K0168.0616055	16	M6	10	14	49	11	5,5	5	3
K0168.0820067	20	M8	13	18	61	13	6	6	4
K0168.1025083	25	M10	16	21	75	13	8	6,5	5
K0168.1232105	32	M12	20	26	95	16	10,5	8	6
K0168.1636117	36	M16	22	29	106	26	11	9	8

K0169

Machine handles revolving

aluminium, similar to DIN 98 Form E





Material:
Grip aluminium.
Screw steel.

Version:
Grip polished, axle part galvanized and blue passivated.

Sample order:
K0169.0616055

Note:
Machine handle suitable for DIN 950 handwheels.

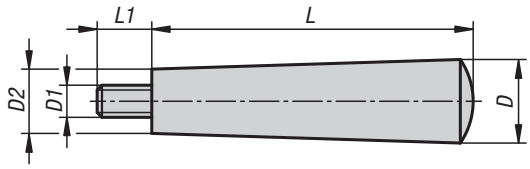
KIPP Machine handles revolving, aluminium, similar to DIN 98 Form E

Order No.	D1	D3	D4	D6	L1	L2	L3	L4	SW
K0169.0616055	16	M6	10	14	49	11	5,5	5	3
K0169.0820067	20	M8	13	18	61	13	6	6	4
K0169.1025083	25	M10	16	21	75	13	8	6,5	5
K0169.1232105	32	M12	20	26	95	16	10,5	8	6
K0169.1636117	36	M16	22	29	106	26	11	9	8

K1221

Taper grips fixed





Material:
Black Duroplast PF 31.
Screw galvanized steel.

Version:
High-gloss polished.

Sample order:
K1221.120408

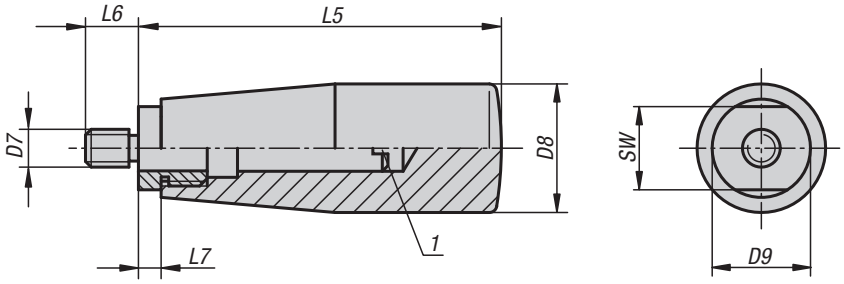
KIPP Taper grips, fixed

Order No.	D	D1	D2	L	L1
K1221.120408	12	M4	9	40	8
K1221.150507	15	M5	11	50	7
K1221.180608	18	M6	13	64	8
K1221.210610	21	M6	15	72	10
K1221.210810	21	M8	15	72	10
K1221.250810	25	M8	17	90	10
K1221.261012	26	M10	20	100	12

K0170

Taper grips revolving





Material:
Black Duroplast PF 31.
Axle and threaded bush galvanized steel or bright stainless steel.

Version:
High-gloss polished.

Sample order:
K0170.105007

Note:
To mount unscrew the axle.

Drawing reference:
1) mounting aid

KIPP Taper grips revolving

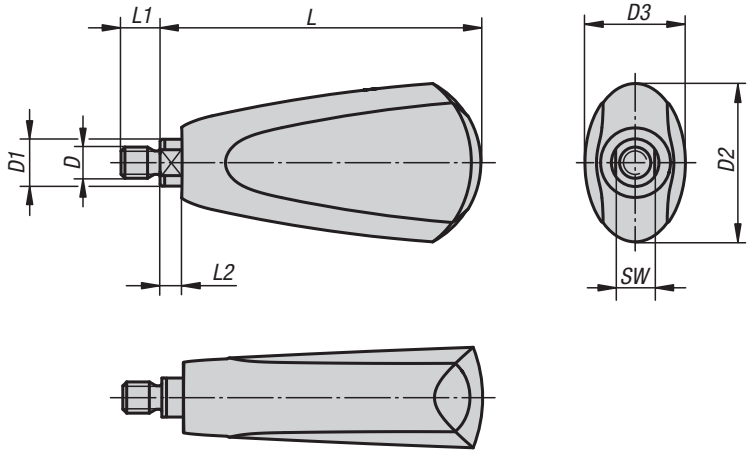
Order No. Steel	Order No. Stainless steel	Size	D7	D8	D9	L5	L6	L7	SW
K0170.105007	K0170.1105007	1	M5	17	15	51	7	5	13
K0170.206008	K0170.1206008	2	M6	23	18	68	8	6	16
K0170.208009	K0170.1208009	2	M8	23	18	68	9	6	16
K0170.310011	K0170.1310011	3	M10	28	21	77	11	7	19

K0651

Taper grips revolving

oval





Material:
Duroplast PF 31, black.
Axle steel, nickel-plated or bright stainless steel 1.4305.
Snap ring stainless steel 1.4310.

Version:
High-gloss polished.

Sample order:
K0651.106009

Note:
The grips are suitable for disc handwheels with revolving taper grip K0164.

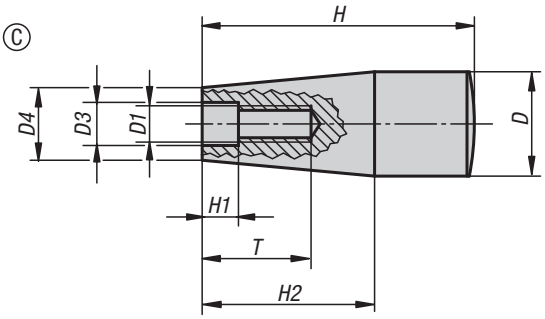
KIPP Taper grips revolving, oval

Order No. Steel	Order No. Stainless steel	Size	D	D1	D2	D3	L	L1	L2	SW
K0651.106009	K0651.1106009	1	M6	8	25	18	54,7	9	4,5	7
K0651.208010	K0651.1208010	2	M8	12	41	26	82,2	10	5,5	10

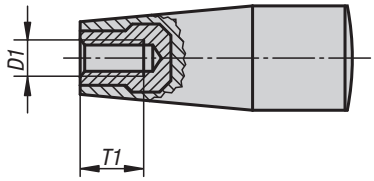
Taper grips



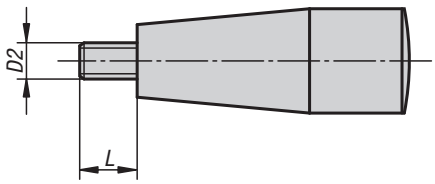
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Material:
Duroplast PF 31, black.
Bush and stud galvanized steel.

Version:
High-gloss polished.

Sample order:
K0172.106

Note:
The versions K0172.205 and K0172.206 have a brass bush.
The versions K0172.208 and K0172.2081 have a copper-plated steel bush.

On request:
Other colours.

Drawing reference:
Form C: moulded female thread
Form E: tapped bush
Form F: male thread

KIPP Taper grips with internal thread

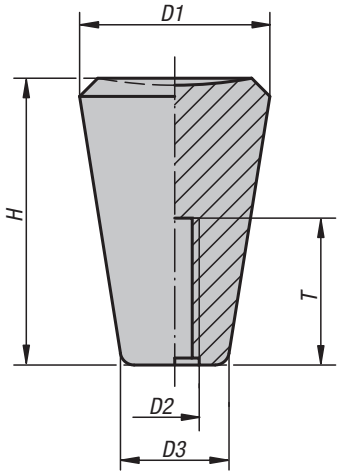
Order No.	Form	D	D1	D3	D4	H	H1	H2	T	T1
K0172.106	C	17	M6	6,2	15	45	2	26	14	-
K0172.108	C	17	M8	8,2	13	45	2	26	16	-
K0172.1081	C	23	M8	8,5	18	61	2	38	24	-
K0172.110	C	29	M10	10,5	21	71	3,5	42	28	-
K0172.205	E	17	M5	-	15	45	-	26	-	10
K0172.206	E	17	M6	-	15	45	-	26	-	9
K0172.208	E	23	M8	-	18	61	-	38	-	14
K0172.2081	E	28	M8	-	21	71	-	42	-	14

KIPP Taper grips with external thread

Order No.	Form	D	D2	D4	H	H2	L
K0172.306	F	17	M6	15	45	26	18
K0172.308	F	23	M8	18	61	38	12
K0172.310	F	29	M10	21	71	42	20

Tapered knobs

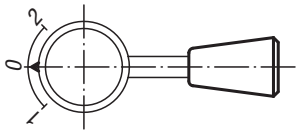




Material:
Black Duroplast PF 31

Version:
Moulded thread.

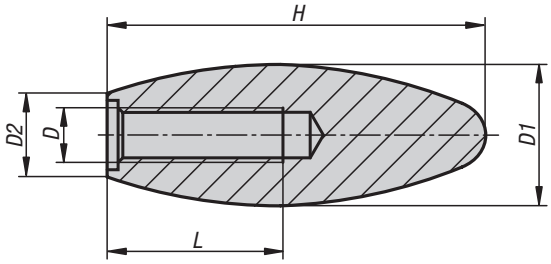
Sample order:
K1207.06



KIPP Tapered knobs

Order No.	D1	D2	D3	H	T min.
K1207.05	20	M5	12	30	18
K1207.061	20	M6	12	30	18
K1207.06	25	M6	15	38	18
K1207.081	25	M8	15	38	18
K1207.08	30	M8	18	46	18
K1207.101	30	M10	18	46	21
K1207.10	35	M10	21	53	21
K1207.12	35	M12	21	53	21

Conical knobs





Material:
Black Duroplast PF 31

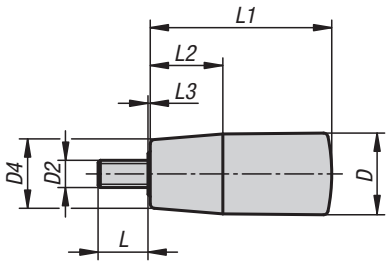
Version:
High-gloss polished.

Sample order:
K1222.120

KIPP Conical knobs

Order No.	D	D1	D2	H	L min.
K1222.060	M6	23	14	60	17
K1222.081	M8	26	16	70	19
K1222.101	M10	35	22	85	25
K1222.121	M12	35	22	85	25

Conical grip revolving





Material:
Duroplast PF 31, black.
Axle galvanised steel or bright stainless.

Version:
High-gloss polished.

Sample order:
K1201.10618

Note:
Cylindrical grips can be screwed onto our handwheels, crank handles etc.

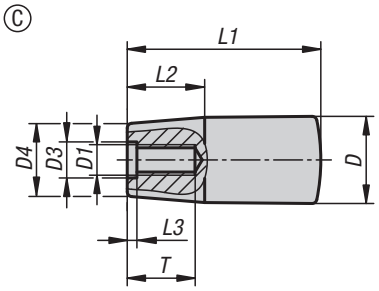
KIPP Conical grip revolving

Order No. steel	Order No. stainless steel	D	D2	D4	L	L1	L2	L3
K1201.0618	**K1201.10618**	18	M6	15	11	40	16	0,5
K1201.0823	**K1201.10823**	23	M8	19	13	65	24	0,5
K1201.1028	**K1201.11028**	28	M10	22	14	90	32	0,5

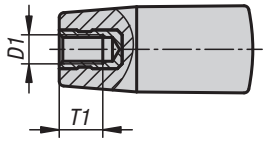
Taper grips



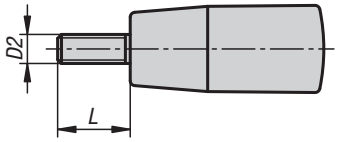
Ⓒ



Ⓔ



Ⓕ



Material:
Duroplast PF 31, black.
Bush and stud galvanized steel.

Version:
High-gloss polished.

Sample order:
K1202.10818

On request:
Other colours.

Drawing reference:
Form C: moulded female thread
Form E: tapped bush
Form F: male thread

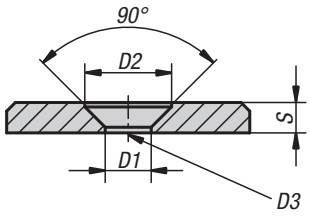
KIPP Taper grips with female thread

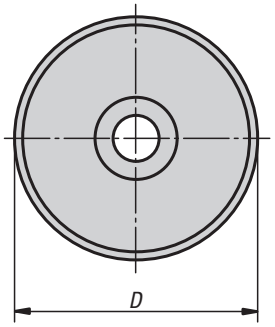
Order No.	Form	D	D1	D3	D4	L1	L2	L3	T	T1
K1202.10618	C	18	M6	6,2	15	40	16	2	14	-
K1202.10818	C	18	M8	8,5	15	40	16	2	18	-
K1202.10823	C	23	M8	8,5	19	65	24	2	18	-
K1202.11028	C	28	M10	10,5	22	90	32	3,5	22	-
K1202.20518	E	18	M5	-	15	40	16	-	-	7,5
K1202.20618	E	18	M6	-	15	40	16	-	-	9
K1202.20823	E	23	M8	-	19	65	24	-	-	12
K1202.20828	E	28	M8	-	22	90	32	-	-	12
K1202.21028	E	28	M10	-	22	90	32	-	-	15

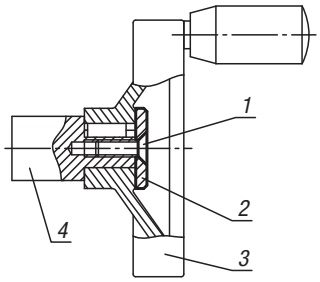
KIPP Taper grips with male thread

Order No.	Form	D	D2	D4	L	L1	L2
K1202.30618	F	18	M6	15	15	40	16
K1202.30823	F	23	M8	19	15	65	24
K1202.31028	F	28	M10	22	15	90	32

Handwheel washers









Material:
Steel 1.0718.
Stainless steel 1.4305.

Version:
Steel black oxidised.
Stainless steel bright.

Sample order:
K0173.00416

Note:
These washers are used together with DIN EN ISO 2009 or DIN EN ISO 10642 countersunk screws on the end of shafts with keyways to secure handwheels and crank handles.

The washers can be used with the handwheels K0671, K0160, K0161, K0162, K0163, K0164, K0165.

The steel washers are often used as caps for magnets.

Drawing reference:
D3 = for countersunk screw ISO 2009 and ISO 10642

1) countersunk screw ISO 2009 and ISO 10642
2) washer
3) handwheel
4) shaft

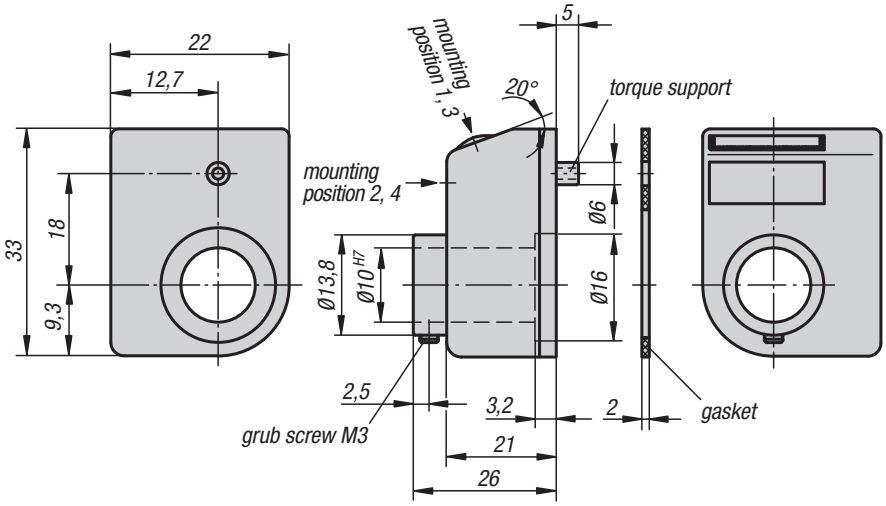
KIPP Handwheel washers

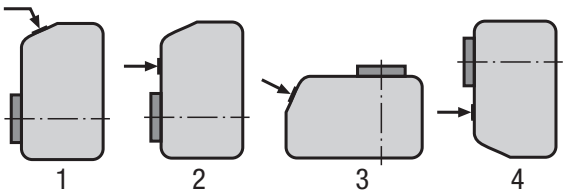
Order No. Steel	Order No. Stainless steel	D	D1	D2	D3	S
K0173.00310	K0173.10310	10	3,2	6	M3	2
K0173.00313	K0173.10313	13	3,2	6	M3	2
K0173.00416	K0173.10416	16	4,3	8,4	M4	3
K0173.00420	K0173.10420	20	4,3	8,4	M4	3
K0173.00522	K0173.10522	22	5,3	10	M5	3,5
K0173.00525	K0173.10525	25	5,3	10	M5	3,5
K0173.00528	K0173.10528	28	5,3	10	M5	3,5
K0173.00632	K0173.10632	32	6,4	12	M6	4
K0173.00636	K0173.10636	36	6,4	12	M6	4
K0173.00640	K0173.10640	40	6,4	12	M6	5
K0173.00645	K0173.10645	45	6,4	12	M6	6
K0173.00652	K0173.10652	52	6,4	12	M6	6

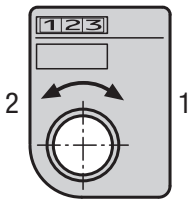
Notes

Position indicators





Display after one rotation, with decimal point:	Mounting position (1 - 4):
 e. g. K0408.**01001**111 **0100** = 1mm increments **1** = decimal places	 e. g. K0408.0100**1**111 = mounting position **1**

Count direction (1 - 2):	Colour (1 - 2):
 e. g. K0408.0100111**1** **1** = clockwise (ascending values) **2** = anticlockwise (ascending values)	 e. g. K0408.0100111**1** **1** = orange **2** = black

Material:
Housing polyamide 6.
Hollow shaft steel.
Screen plastic.
Grub screw steel.

Version:
Impact-resistant housing.
Hollow shaft black oxidised.
Grub screw black.
Dial black, digits white.

Sample order:
K0408.01001111
(Position indicator with 1 mm pitch, decimal point in first position from the right, assembly position 1, direction of count ascending clockwise, colour orange)

Note:
Position indicators allow direct reading of input measurement values at a glance.
In addition, the value indicated per spindle rotation (corresponding spindle pitch) can be selected and the various indicator values are realised by a transmission gear. The position indicators are distinguished by their small construction with very clear display.
They are especially suitable for small spindle distances and small shaft diameters and have a torque support that is positioned in a hole on the side.

** At the 1st asterisk give assembly position and at the 2nd asterisk give the count direction (see sample order “assembly position, count direction”).

On request:
– Stainless steel driveshaft
– Indicator for inch

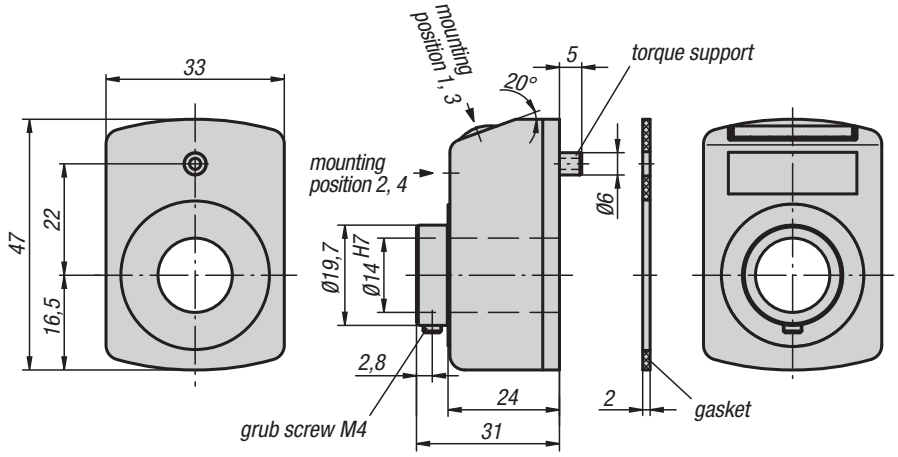
Accessories:
– Reducing bushes K0412

Technical data:
– Counter consisting of 3 10-position dials
– Height of figures about 4 mm
– Hollow shaft Ø 10 H7 mm
– Temperature resistant to 80 °C
– Oil and solvent resistant

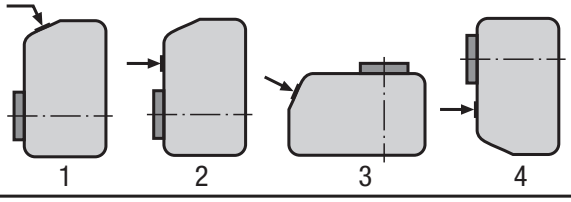
KIPP Position indicators

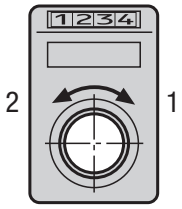
Order No. Orange	Order No. black	Pitch	Indicator after one rotation	Decimal point in position	max. speed U/min
K0408.010011**	**K0408.01001**2**	1	01,0	1	500
K0408.020011**	**K0408.02001**2**	2	02,0	1	500
K0408.025011**	**K0408.02501**2**	2,5	02,5	1	500
K0408.030011**	**K0408.03001**2**	3	03,0	1	500
K0408.040011**	**K0408.04001**2**	4	04,0	1	375
K0408.050011**	**K0408.05001**2**	5	05,0	1	300
K0408.060011**	**K0408.06001**2**	6	06,0	1	250
K0408.080011**	**K0408.08001**2**	8	08,0	1	180
K0408.100011**	**K0408.10001**2**	10	10,0	1	150

Position indicators





Display after one rotation, with decimal point:	Mounting position (1 - 4):
	
e. g. K0409.**01002**111 **0100** = 1 mm increments **2** = decimal places	e. g. K0409.0100**2**111 = mounting position **1**

Count direction (1 - 2):	Colour (1 - 2):
	
e. g. K0409.0100211**1** **1** = clockwise (ascending values) **2** = anticlockwise (ascending values)	e. g. K0409.0100211**1** **1** = orange **2** = black

KIPP Position indicators

Order No. orange	Order No. black	Pitch	Indicator after one rotation	Decimal point in position	max. speed U/min
K0409.010021**	**K0409.01002**2**	1	00,10	2	500
K0409.010011**	**K0409.01001**2**	1	001,0	1	500
K0409.012511**	**K0409.01251**2**	1,25	001,2/5	1	500
K0409.015011**	**K0409.01501**2**	1,5	001,5	1	500
K0409.020011**	**K0409.02001**2**	2	002,0	1	500
K0409.025011**	**K0409.02501**2**	2,5	002,5	1	500
K0409.030011**	**K0409.03001**2**	3	003,0	1	500
K0409.040011**	**K0409.04001**2**	4	004,0	1	375
K0409.050011**	**K0409.05001**2**	5	005,0	1	300
K0409.060011**	**K0409.06001**2**	6	006,0	1	250
K0409.080011**	**K0409.08001**2**	8	008,0	1	180
K0409.100011**	**K0409.10001**2**	10	010,0	1	150

Material:
Housing polyamide 6.
Hollow shaft steel.
Screen plastic.
Grub screw steel.

Version:
Impact-resistant housing.
Hollow shaft black oxidised.
Grub screw black.
Dial black, digits white.

Sample order:
K0409.01002111
(Position indicator with 1 mm pitch, decimal point in second position from the right, assembly position 1, direction of count ascending clockwise, colour orange)

Note:
Position indicators allow direct reading of input measurement values at a glance.
In addition, the value indicated per spindle rotation (corresponding spindle pitch) can be selected and the various indicator values are realised by a transmission gear. The position indicators are distinguished by their small construction with very clear display and fine scale.
They are especially suitable for small spindle distances and small shaft diameters and have a torque support that is positioned in a hole on the side.

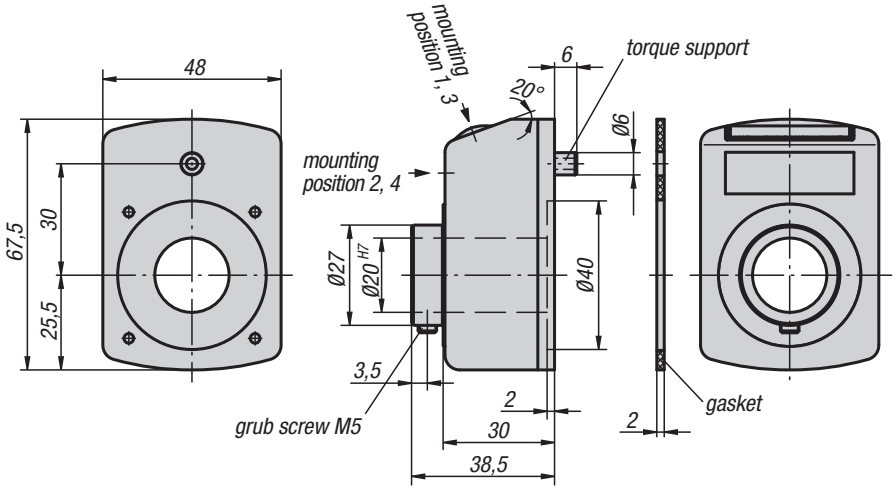
** At the 1st asterisk give assembly position and at the 2nd asterisk give the count direction (see sample order “assembly position, count direction”).

On request:
– Counter cover made of mineral glass
– Stainless steel driveshaft
– Axial sealing (dust-proof)
– Vibration protection

Accessories:
– Reducing bushes K0412
– Insert plate K0413
– Mounting plates K0414

Technical data:
– Counter consisting of 4 10-position dials + fine scale
– Height of figures about 6 mm
– Hollow shaft Ø 14 H7 mm
– Temperature resistant to 80 °C
– Oil and solvent resistant

Position indicators





Material:
Housing polyamide 6.
Hollow shaft steel.
Screen plastic.
Grub screw steel.

Version:
Impact-resistant housing.
Hollow shaft black oxidised.
Grub screw black.
Dial black, digits white.

Sample order:
K0410.01002111
(Position indicator with 1 mm pitch, decimal point in second position from the right, assembly position 1, direction of count ascending clockwise, colour orange)

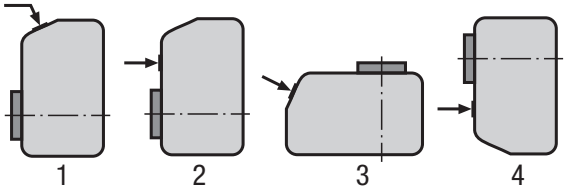
Note:
Position indicators allow direct reading of input measurement values at a glance.
In addition the value indicated per spindle rotation (corresponding spindle pitch) can be selected and the various indicator values are realised by a transmission gear.
The position indicators are distinguished by their very clear display and fine scale. They have a torque support that is positioned in a hole on the side.

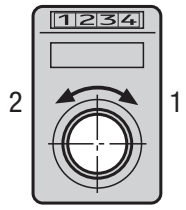
** At the 1st asterisk give assembly position and at the 2nd asterisk give the count direction (see sample order “assembly position, count direction”).

On request:
– Counter cover made of mineral glass
– Stainless steel driveshaft
– Axial sealing (dust-proof)
– Waterproof
– Vibration protection

Accessories:
– Reducing bushes K0412
– Insert plate K0413
– Mounting plates K0414

Technical data:
– Counter consisting of 5 10-position dials + fine scale
– Height of figures about 7 mm
– Hollow shaft Ø 20 H7 mm
– Temperature resistant to 80 °C
– Oil and solvent resistant
– Dust-proof

Display after one rotation, with decimal point:	Mounting position (1 - 4):
	
e. g. K0410.**01002**111 **0100** = 1 mm increments **2** = decimal places	e. g. K0410.0100211**1** = mounting position **1**

Count direction (1 - 2):	Colour (1 - 2):
	
e. g. K0410.0100211**1** **1** = clockwise (ascending values) **2** = anticlockwise (ascending values)	e. g. K0410.0100211**1** **1** = orange **2** = black

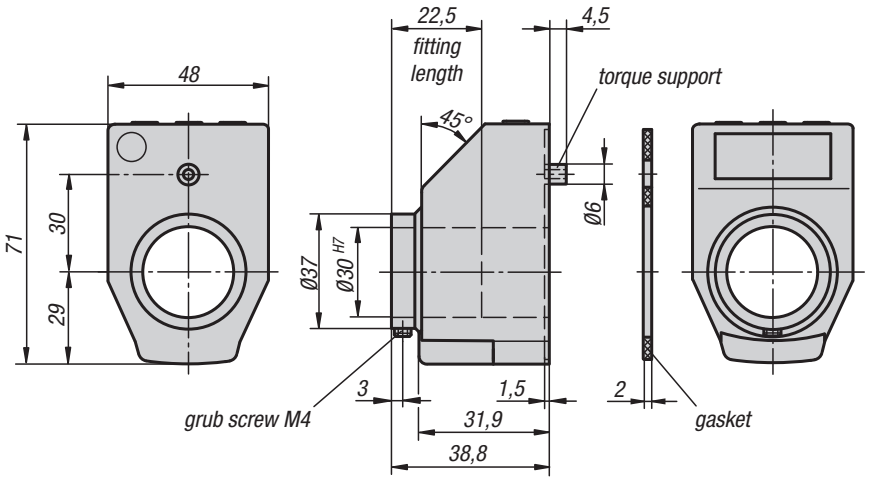
KIPP Position indicators

Order No. orange	Order No. black	Pitch	Indicator after one rotation	Decimal point in position	max. speed U/min
K0410.010021**	**K0410.01002**2**	1	000,10	2	500
K0410.010011**	**K0410.01001**2**	1	0001,0	1	500
K0410.015011**	**K0410.01501**2**	1,5	0001,5	1	500
K0410.020011**	**K0410.02001**2**	2	0002,0	1	500
K0410.025011**	**K0410.02501**2**	2,5	0002,5	1	500
K0410.030011**	**K0410.03001**2**	3	0003,0	1	500
K0410.040011**	**K0410.04001**2**	4	0004,0	1	450
K0410.050011**	**K0410.05001**2**	5	0005,0	1	300
K0410.060011**	**K0410.06001**2**	6	0006,0	1	250
K0410.100011**	**K0410.10001**2**	10	0010,0	1	150

Position indicators

freely programmable





Material:
Housing plastic.
Hollow shaft steel.
Screen LCD display.
Grub screw steel.

Version:
Hollow shaft black oxidised.
Grub screw black.

Sample order not programmed:
K0411.12
(Position indicator with assembly position 1, colour black)

Sample order programmed:
K0411.0200021120
(See ordering example on the next page)

Note:
The electronic position indicators offer diverse opportunities compared to mechanical position indicators because they display angles as well as uncommon spindle pitches and record each fraction of spindle movement.

Technical data:
– LCD Display with 5 digits
– Digit size approx. 11.5 mm
– Display range from -19999 ... 99999
– Tunular shaft Ø 30 H7 mm
– Operating temperature -10 °C to +60 °C
– Storage temperature -30 °C to +80 °C
– Revolution max. 600 rpm
– Lithium battery Button cell 3V, type CR 2032. service life approx. 2 years
– Vibration-resistance according to DIN IEC 68-2-6 10 g / (5 ... 150 Hz), 20 g / (100 ... 2000 Hz)
– Shock-resistance according to DIN IEC 68-2-27 30 g / 15 ms
– EMC DIN EN 61000-4-2; DIN EN 61000-4-4
– Type of protection IP 51

* Freely programmable parameters using the programming software K0411.09.

Features:
– indicated value and decimal point freely programmable
– linear or angle mode
– function key for zero-point position
– function key for switching between the absolute dimension and chain dimension
– programming of an offset value directly at the device
– easy battery change

Accessories:
– reducing bushes K0412
– programming software K0411.09

KIPP Position indicators programmed

Order No.	Version
K0411.	See sample order for position Indicators programmed

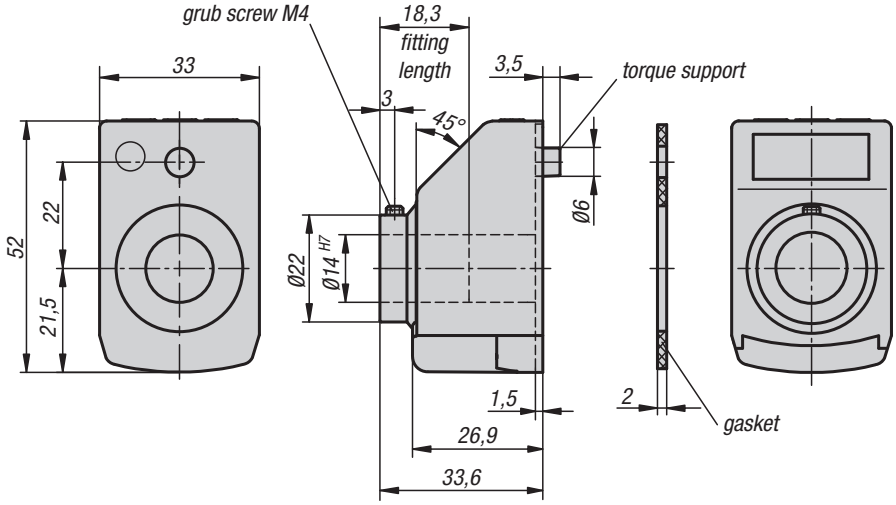
KIPP Position indicators not programmed*

Order No.	Colour	Assembly position	Pitch	Indicator after one rotation	Decimal point in position	Count direction	Zero-point position	Order No. software
K0411.11	orange	1	freely programmable	freely programmable	freely programmable	freely programmable	freely programmable	K0411.09
K0411.12	black	1	freely programmable	freely programmable	freely programmable	freely programmable	freely programmable	K0411.09
K0411.31	orange	3	freely programmable	freely programmable	freely programmable	freely programmable	freely programmable	K0411.09
K0411.32	black	3	freely programmable	freely programmable	freely programmable	freely programmable	freely programmable	K0411.09

Position indicators

freely programmable





Material:
Housing plastic.
Hollow shaft steel.
Screen LCD display.
Grub screw steel.

Version:
Hollow shaft black oxidised.
Grub screw black.

Sample order not programmed:
K0771-12
(position indicator with assembly position 1, colour black)

Sample order programmed:
K0771.0200021120
(see sample order on following page)

Note:
The electronic position indicators offer diverse opportunities compared to mechanical position indicators because they display angles as well as uncommon spindle pitches and record each fraction of spindle movement.

* Freely programmable parameters using the programming software K0411.09.

Technical data:
– LCD Display with 5 digits
– Digit size approx. 8 mm
– Display range from -19999 ... 99999
– Hollow shaft Ø 14 H7 mm
– Operating temperature -10 °C to +60 °C
– Storage temperature -30 °C to +80 °C
– Revolution max. 600 rpm
– Lithium battery button cell 3V, type CR 2032. service life ca. 2 years
– Vibration-resistance acc. to DIN IEC 68-2-6 10 g / (5 ... 150 Hz), 20 g / (100 ... 2000 Hz)
– Shock-resistance acc. to DIN IEC 68-2-27 30 g / 15 ms
– EMC DIN EN 61000-4-2; DIN EN 61000-4-4
– Protection IP 51

Features:
– indicated value and decimal point freely programmable
– linear or angle mode
– function key for zero-point position
– function key for switching between the absolute dimension and chain dimension
– programming of an offset value directly at the device
– easy battery change

Accessories:
– reducing bushes K0412
– programming software K0411.09

KIPP Position indicators programmed

Order No.	Version
K0771.	See sample order for position Indicators programmed

KIPP Position indicators not programmed*

Order No.	Colour	Assembly position	Pitch	Indicator after one rotation	Decimal point in position	Count direction	Zero-point position	Order No. software
K0771.11	orange	1	freely programmable	freely programmable	freely programmable	freely programmable	freely programmable	K0411.09
K0771.12	black	1	freely programmable	freely programmable	freely programmable	freely programmable	freely programmable	K0411.09
K0771.31	orange	3	freely programmable	freely programmable	freely programmable	freely programmable	freely programmable	K0411.09
K0771.32	black	3	freely programmable	freely programmable	freely programmable	freely programmable	freely programmable	K0411.09

Sample order for programmed position indicators K0411 and K0771

Order code:

K0411._ _ _ _ _ | _ | _ | _ | _ | _

Indicator after one rotation:

e.g.
K0411.**02000**21120
Please indicate here which value is to be displayed after one rotation (this is usually the spindle pitch).

Important:
Please note the decimal point position!



Angle mode:
(resolution 0.1°)
If you want the display to be in angle mode, enter 03600.

The display in angle mode is 03600 after one rotation and returns to 00000 for the next rotation.

Decimal point position:

e.g.
K0411.0200**0**21120
Please indicate here how many decimal places you require.

0 = 00000
1 = 0000.0
2 = 000.00
3 = 00.000

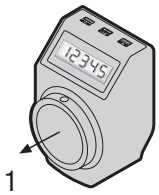


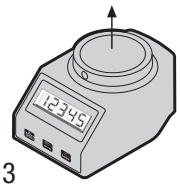
Angle mode:
If you want the display to be in angle mode, the decimal point is best put in position 1.

This means the display shows the value 0360.0 after one rotation.

Assembly position:

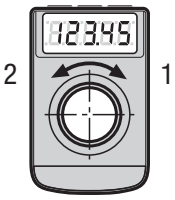
e.g.
K0411.020002**1**120
1 = Mounting position for horizontal spindle
3 = Mounting position for vertical spindle





Count direction:

e.g.
K0411.0200021**1**20
1 = clockwise (ascending values)
2 = anticlockwise (ascending values)



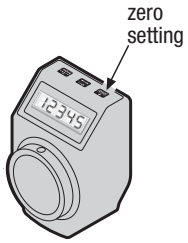
Colour:

e.g.
K0411.0200021**1**20
1 = orange
2 = black



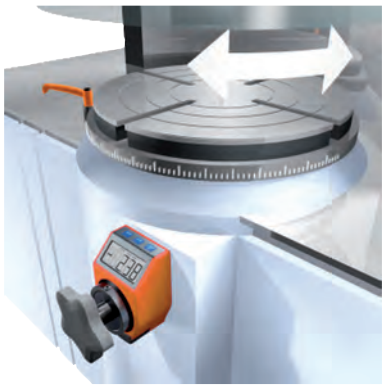
Zero-point position:

e.g.
K0411.0200021120
0 = directly
5 = delayed by 5 sec.

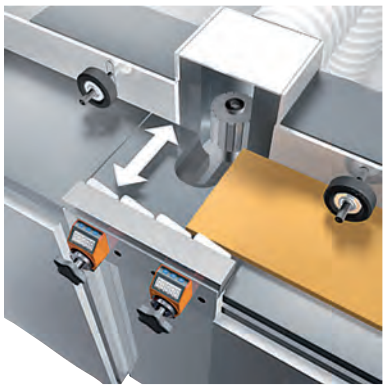


The Zero-point position can be delayed by 5 sec. by means of a parameter, in order to avoid accidental zero setting.

Application using position indicators

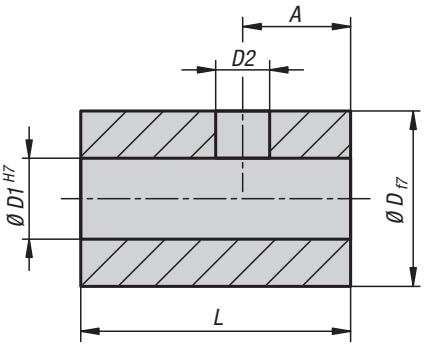


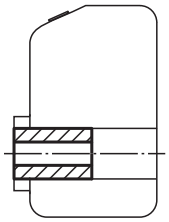




K0412

Reducing bushings







Material:
Steel.

Version:
Black oxidised.

Sample order:
K0412.14**08** (diameter D1=8)

Note:
Reducing bushes are used for adapting the diameter between position indicator and positioning spindle.

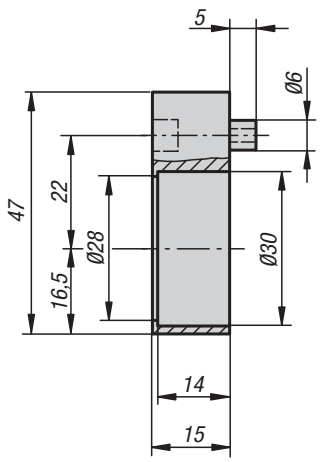
KIPP Reducing bushings

Order No.	A	D	D1	D2	L	Suitable for position indicator
K0412.10**	2,5	10	6/8	3,2	14	K0408
K0412.14**	3,5	14	6/8/10/12	4,2	17	K0409
K0412.20**	4,5	20	12/14/16/18	5,5	20	K0410
K0412.30**	4	30	12/14/16/18/20/25	5,5	30	K0411

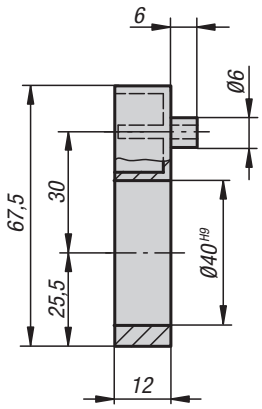
K0413

Intermediate plates

K0413.041



K0413.091





Material:
Plastic

Sample order:
K0413.041

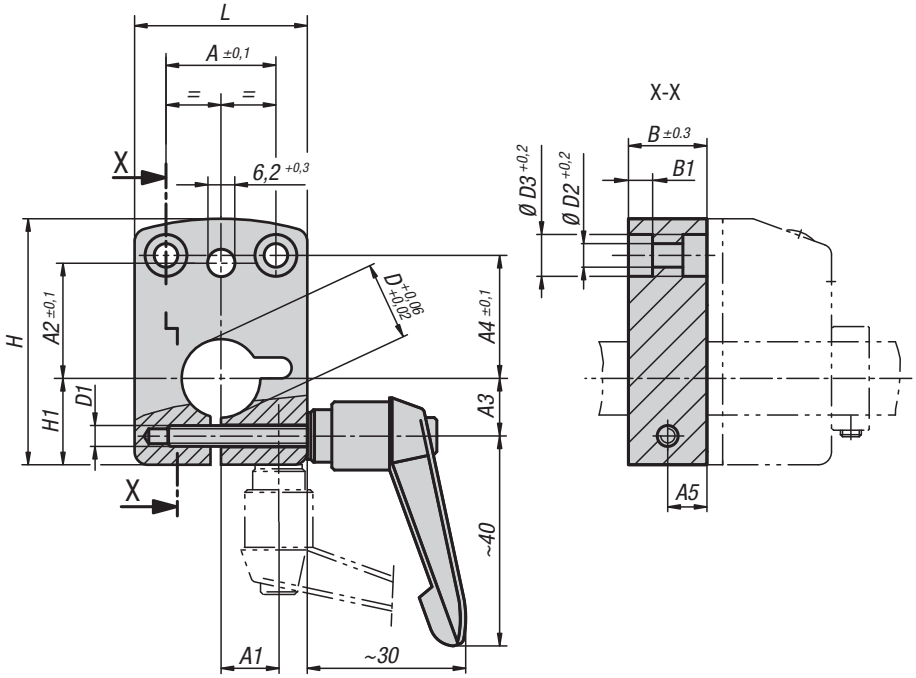
Note:
Intermediate plates are used for mounting shaft collars and radial shaft seals.

KIPP Intermediate plates

Order No.	Suitable for position indicator
K0413.041	K0409, K0771
K0413.091	K0410, K0411

Mounting brackets





Material:
Mounting position 1, housing die-cast zinc
Mounting position 3, housing aluminium.

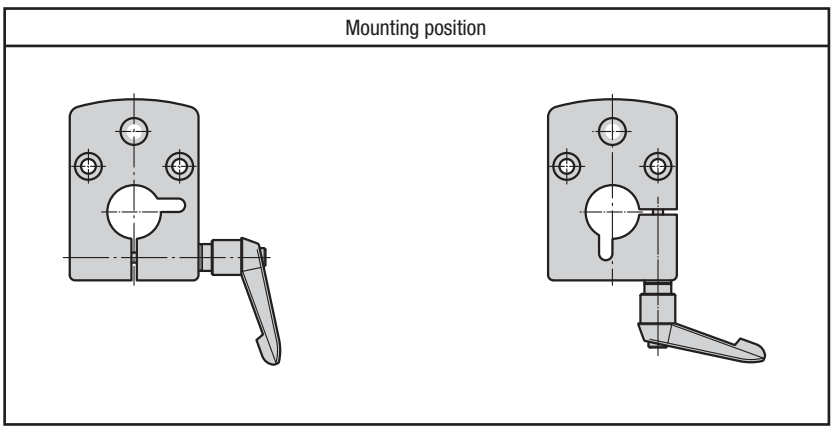
Clamping lever plastic.

Version:
Housing anodized.
Clamping lever black grey.

Sample order:
K0414.09121

Note:
Mounting brackets and position indicators form a compact unit. The brackets guarantee reliable spindle clamping without additional construction work.
The simple assembly allows the retrofitting on existing equipment.

Mounting position



K0414. ....**1**

K0414. ....**3**



KIPP Mounting brackets

Order No. assembly position 1	Order No. assembly position 3	A	A1	A2	A3	A4	A5	B	B1	D	D1	D2	D3	H	H1	L	Suitable for position indicator
K0414.04081	**K0414.04083**	21	-/11	22	11/-	23,5	7,5	15	4,6	8	M4	4,5	8	47	16,5	33	K0409
K0414.04101	**K0414.04103**	21	-/11	22	11/-	23,5	7,5	15	4,6	10	M4	4,5	8	47	16,5	33	K0409
K0414.04121	**K0414.04123**	21	-/11	22	11/-	23,5	7,5	15	4,6	12	M4	4,5	8	47	16,5	33	K0409
K0414.04141	**K0414.04143**	21	-/11	22	11/-	23,5	7,5	15	4,6	14	M4	4,5	8	47	16,5	33	K0409
K0414.09121	**K0414.09123**	34	-/17	30	17/-	17	10	20	5,5	12	M5	5,5	10	67,5	25,5	48	K0410
K0414.09141	**K0414.09143**	34	-/17	30	17/-	17	10	20	5,5	14	M5	5,5	10	67,5	25,5	48	K0410
K0414.09161	**K0414.09163**	34	-/17	30	17/-	17	10	20	5,5	16	M5	5,5	10	67,5	25,5	48	K0410
K0414.09201	**K0414.09203**	34	-/17	30	17/-	17	10	20	5,5	20	M5	5,5	10	67,5	25,5	48	K0410

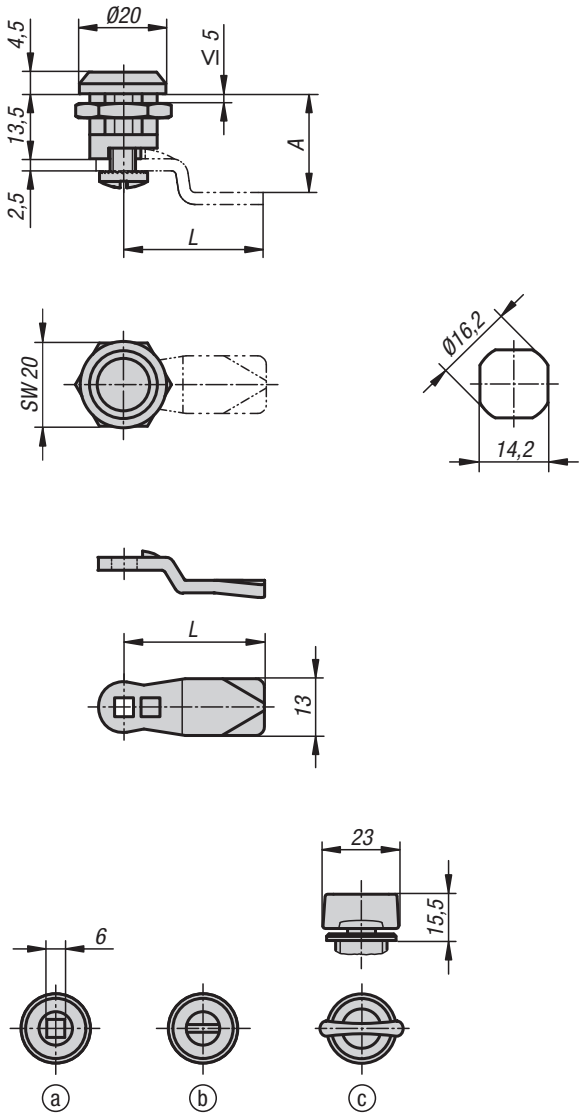
Quarter-turn locks, compression latches



Quarter-turn locks

small version





Material:
Housing and actuator die-cast zinc.
Tongue steel.

Version:
Housing and actuator chrome-plated.
Wing-handle version powder-coated.
Tongue galvanized.

Sample order:
Quarter turn lock K0518.16131
Tongue K0519.125X075

Note:
Small quarter turn lock with spring-loaded tongue. Right or left deployment. The lock can be installed pre-assembled. The fastening nut is an earthing nut with teeth one side.

Please order the desired tongue type separately. Every tongue can be combined with every housing.

Accessories:
Key K0535

Drawing reference:
Actuation:
a) square 6 mm
b) slot
c) wing grip



KIPP Quarter-turn locks small version

Order No.	Actuation
K0518.16131	square 6 mm
K0518.20131	slot
K0518.30132	grip

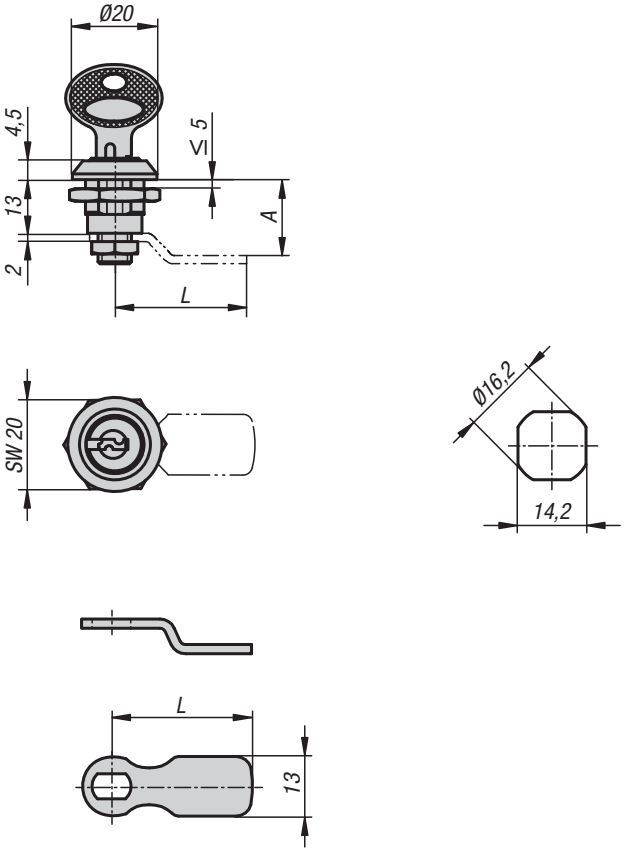
KIPP Tongue for quarter-turn locks

Order No.	A	L
K0519.125X075	7,5	25
K0519.125X135	13,5	25
K0519.125X195	19,5	25

Quarter-turn locks

with cylinder, small version





Material:
Housing and actuator die-cast zinc.
Tongue steel.
Key nickel silver.

Version:
Housing and actuator chrome-plated.
Tongue galvanized.

Sample order:
Quarter turn lock with cylinder K0520.131
Tongue K0521.128X105

Note:
Small quarter turn with cylinder, deployable right or left. The lock can be installed pre-assembled. The fastening nut is an earthing nut with teeth one side. These quarter turns with cylinder are supplied with 2 keys. The key can be removed in both positions (open and closed). All cylinders are identical i.e. all locks can be opened with the same key.

Please order the desired tongue type separately.

On request:
Non-identical cylinders.

KIPP Quarter-turn locks with cylinder, small version

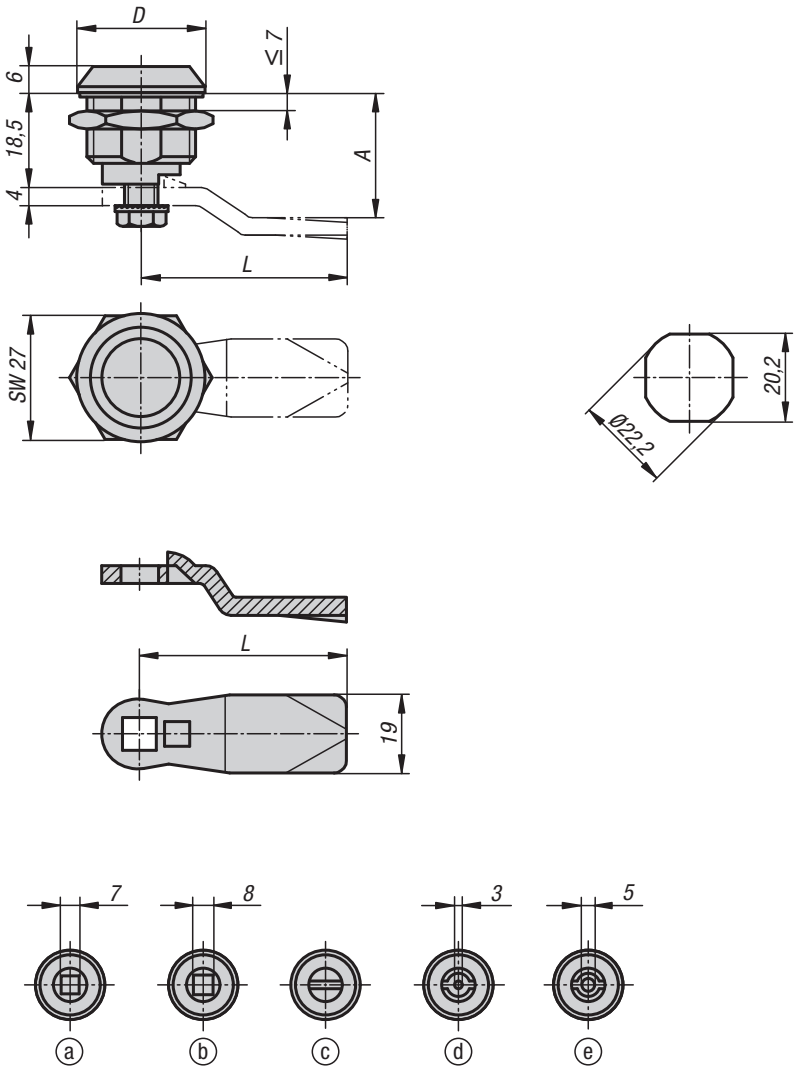
Order No.	Actuation
K0520.131	key

KIPP Tongue for quarter-turn locks

Order No.	A	L
K0521.128X105	10	28
K0521.124X135	13	24
K0521.131X135	13	31
K0521.136X135	13	36
K0521.130X165	16	30
K0521.126X205	20	26

Quarter-turn locks





Material:
Housing, actuator and nut, die-cast zinc or PA6 GFR 30 plastic.
Flat seal rubber.
Tongue steel.

Version:
Housing, actuator and nut chrome-plated or black.
Tongue galvanized.

Sample order:
Quarter-turn lock K0522.17181
Tongue K0523.145X045
(include tongue gap “A”)

Note:
Quarter-turn lock with spring-loaded tongue. Right or left deployment. The lock can be installed pre-assembled. The fastening nut is an earthing nut with teeth one side.

Vibration-proof (except plastic version), a catch prevents independent opening. Water and dust tight according to IP65.

Please order the desired tongue type separately. Every tongue can be combined with every housing.

Accessories:
Key K0535

Drawing reference:
Actuation:
a) square 7 mm
b) square 8 mm
c) slot
d) double lug 3 mm
e) double lug 5 mm

KIPP Quarter-turn lock

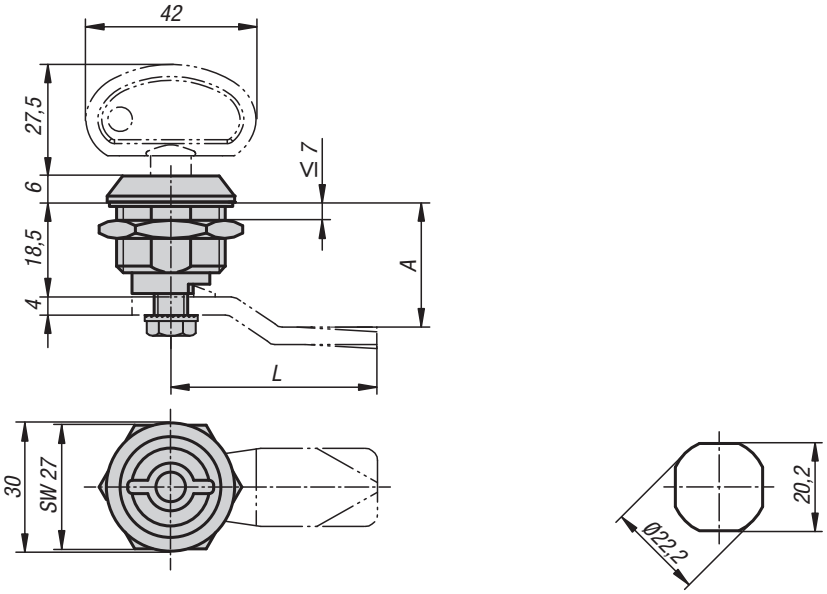
Order No. zinc	Order No. plastic	D	Actuation
K0522.17181	-	30	square 7 mm
K0522.18181	-	30	square 8 mm
K0522.20181	**K0522.20185**	30/28	slot
K0522.43181	**K0522.43185**	30/28	double lug 3 mm
K0522.45181	**K0522.45185**	30/28	double lug 5 mm

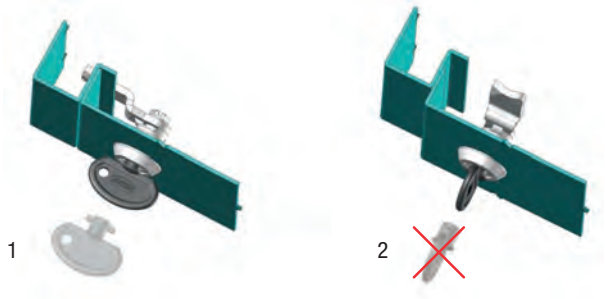
KIPP Tongue for quarter-turn lock

Order No.	A	L
K0523.135X	16,5/18,5/20,5/22,5/24,5	35
K0523.145X	4,5/6,5/8,5/10,5/12,5/14,5/16,5/18,5/20,5/21,5/22,5/24,5/26,5/28,5/30,5/32,5/34,5/36,5/38,5/40,5/42,5	45

Quarter-turn security locks







Material:
Housing, actuator, nut and key die-cast zinc.
Flat seal rubber.
Tongue steel.

Version:
Housing and actuator chrome-plated or black powder-coated.
Tongue galvanized.
Key chrome-plated.

Sample order:
Security quarter turn lock K0524.181
Tongue K0523.145X045 (include tongue gap “A”)
Key K0524.9

Note:
Security quarter turn lock with spring-loaded tongue. Right or left deployment. The lock can be installed pre-assembled. The fastening nut is an earthing nut with teeth one side.

Water and dust tight according to IP65.

Please order key separately. Lock can only be opened and closed with a specific key. The key can only be removed in the closed position. With an open lock the key acts as a grip.

Please order the desired tongue type separately. Every tongue can be combined with every housing.

Drawing reference:
1) Key can be pulled out when locked
2) Key cannot be pulled out when open

KIPP Quarter-turn lock security

Order No. chromed	Order No. black powder-coated	Actuation	Order No Key
K0524.181	**K0524.182**	key	**K0524.9**

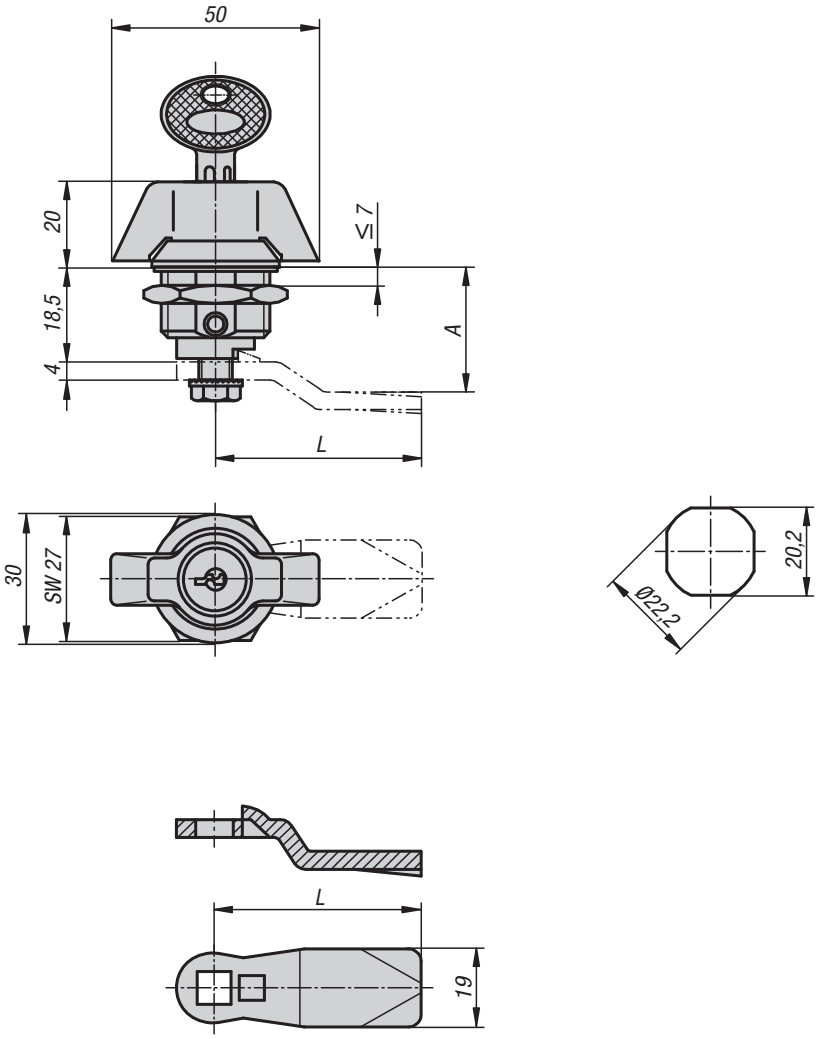
KIPP Tongue for quarter-turn lock

Order No.	A	L
K0523.135X	16,5/18,5/20,5/22,5/24,5	35
K0523.145X	4,5/6,5/8,5/10,5/12,5/14,5/16,5/18,5/20,5/21,5/22,5/24,5/26,5/28,5/30,5/32,5/34,5/36,5/38,5/40,5/42,5	45

Quarter-turn locks

with wing grip





Material:
Housing and nut die-cast zinc.
Grip plastic PA6 GF 30.
Flat seal rubber.
Tongue steel.

Version:
Housing and nut chrome-plated.
Grip black.
Tongue galvanized.

Sample order:
Quarter-turn lock K0525.1183
Tongue K0523.145X045 (include tongue gap “A”)

Note:
Quarter-turn lock with wing grip. Right or left deployment. The lock can be installed pre-assembled. The fastening nut is an earthing nut with teeth one side.

Water and dust tight according to IP65.

The cylinder locks are supplied with 2 keys. The key can be removed in both positions (open and closed). All cylinders are identical i.e. all locks can be opened with the same key (Euro key 5333).
Please order the desired tongue type separately. Every tongue can be combined with every housing.

KIPP Quarter-turn lock with wing grip

Order No.	Actuation
K0525.1183	grip
K0525.2183	lockable grip

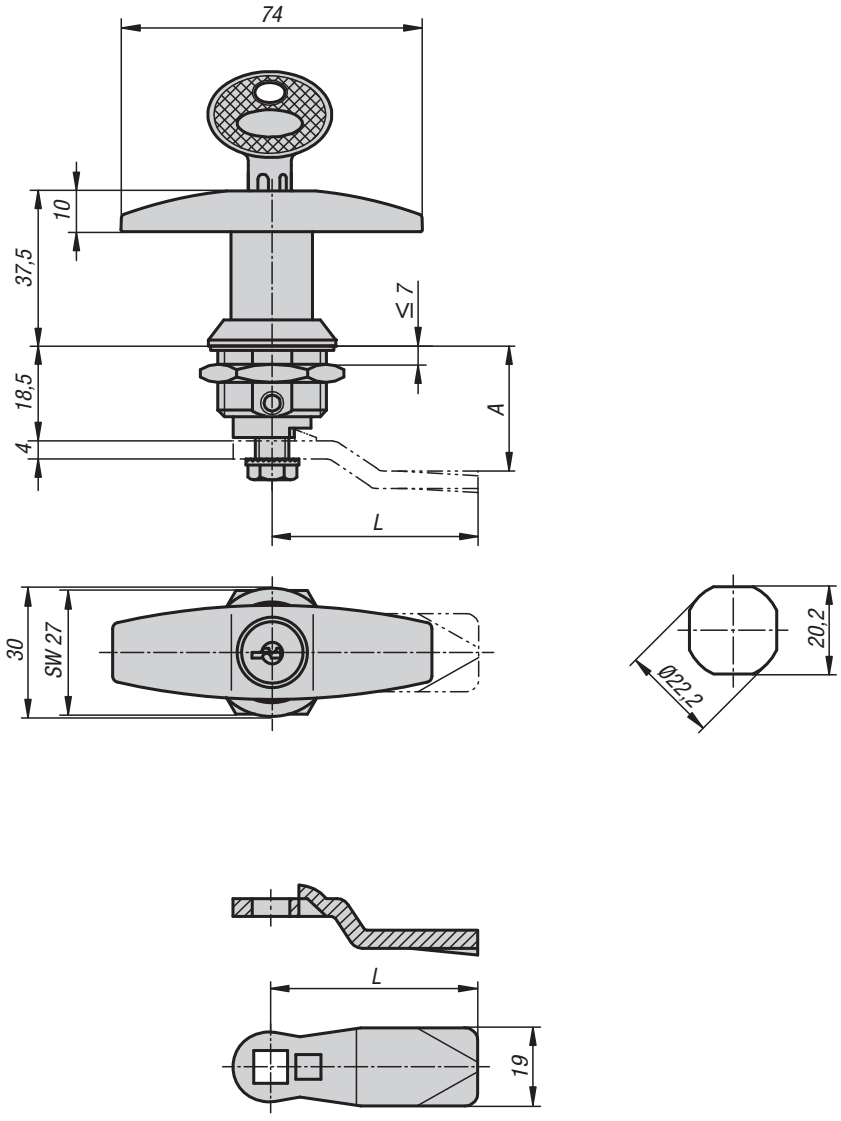
KIPP Tongue for quarter-turn lock

Order No.	A	L
K0523.135X	16,5/18,5/20,5/22,5/24,5	35
K0523.145X	4,5/6,5/8,5/10,5/12,5/14,5/16,5/18,5/20,5/21,5/22,5/24,5/26,5/28,5/30,5/32,5/34,5/36,5/38,5/40,5/42,5	45

Quarter-turn locks

with T-grip





Material:
Housing and nut die-cast zinc.
T-grip plastic PA6 GF 30.
Flat seal rubber.
Tongue steel.

Version:
Housing and nut chrome-plated.
T-grip black.
Tongue galvanized.

Sample order:
Quarter-turn lock K0526.1183
Tongue K0523.145X045
(include tongue gap “A”)

Note:
Quarter-turn lock with T-grip. Right or left deployment. The lock can be installed pre-assembled. The fastening nut is an earthing nut with teeth one side.

Water and dust tight according to IP65.

The cylinder locks are supplied with 2 keys. The key can be removed in both positions (open and closed). All cylinders are indetical i.e. all locks can be opened with the same key (Euro key 5333).

Please order the desired tongue type separately. Every tongue can be combined with every housing.

KIPP Quarter-turn lock with T-grip

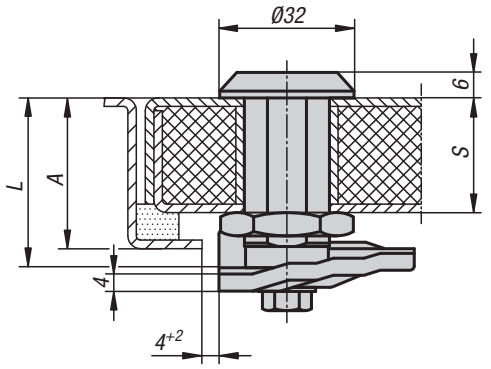
Order No.	Actuation
K0526.1183	T-Grip
K0526.2183	lockable T-grip

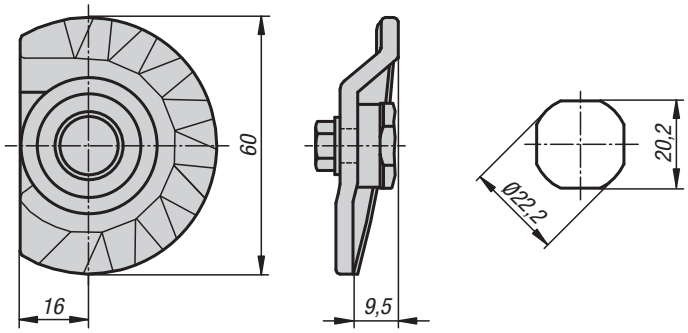
KIPP Tongue for quarter-turn lock

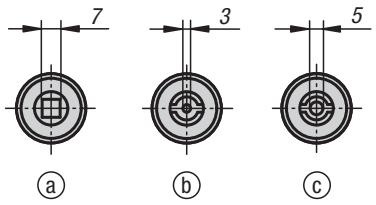
Order No.	A	L
K0523.135X	16,5/18,5/20,5/22,5/24,5	35
K0523.145X	4,5/6,5/8,5/10,5/12,5/14,5/16,5/18,5/20,5/21,5/22,5/24,5/26,5/28,5/30,5/32,5/34,5/36,5/38,5/40,5/42,5	45

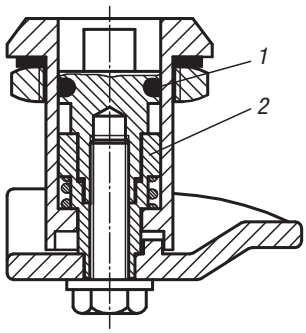
Compression latches

with stepped cam











Material:
Housing, actuator, nut and cam die-cast zinc.
Flat seal rubber.

Version:
Housing, actuator, nut and cam, chrome-plated.

Sample order:
Compression latch K0527.17301

Note:
Compression latches with stepped cam are primarily used for doors and housings that require a high pressure on the seal. Right or left deployment. The locking direction is always clockwise. By turning the actuator to the right the door can be pulled incrementally into the frame by up to 9.5 mm at a maximum rotation of 270°.

The fastening nut is an earthing nut with teeth one side.

Water and dust tight according to IP65.

Accessories:
Key K0535

Drawing reference:
Actuation:
a) square 7 mm
b) double lug 3 mm
c) double lug 5 mm

1) O-ring
2) Adapter

KIPP Compression latches with stepped cam

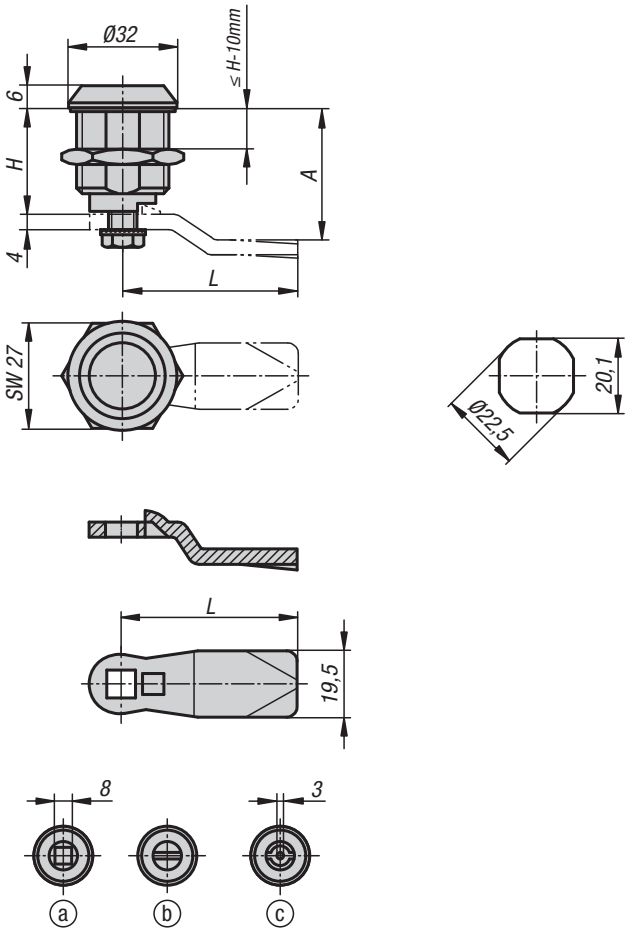
Order No. square 7 mm	Order No. double lug 3 mm	Order No. double lug 5 mm	A	L	S max.
K0527.17301	K0527.43301	K0527.45301	30 -9,5	30	20
K0527.17401	K0527.43401	K0527.45401	40 -9,5	40	30
K0527.17501	K0527.43501	K0527.45501	50 -9,5	50	40
K0527.17601	K0527.43601	K0527.45601	60 -9,5	60	50

Notes

Quarter-turn locks

long version





Material:
Housing and actuator die-cast zinc.
Tongue steel.

Version:
Housing and actuator chrome-plated.
Tongue galvanized.

Sample order:
Quarter turn lock K1113.18301
Tongue K1114.145X040

Note:
Rating IP65. This is achieved using an additional O-ring underneath the actuator and a flat seal attached to the housing. The quarter-turn lock can be installed pre-assembled. Please order the required tongue separately. Every tongue can be combined with this housing.

Drawing reference:
Actuation:
a) square 8 mm
b) slot
c) double lug 3 mm

Quarter-turn locks

long version

KIPP Quarter-turn lock long design

Order No.	H	Actuation
K1113.18301	30	square 8 mm
K1113.40301	30	double lug 3 mm
K1113.20301	30	slot
K1113.18401	40	square 8 mm
K1113.40401	40	double lug 3 mm
K1113.20401	40	slot
K1113.18501	50	square 8 mm
K1113.40501	50	double lug 3 mm
K1113.20501	50	slot

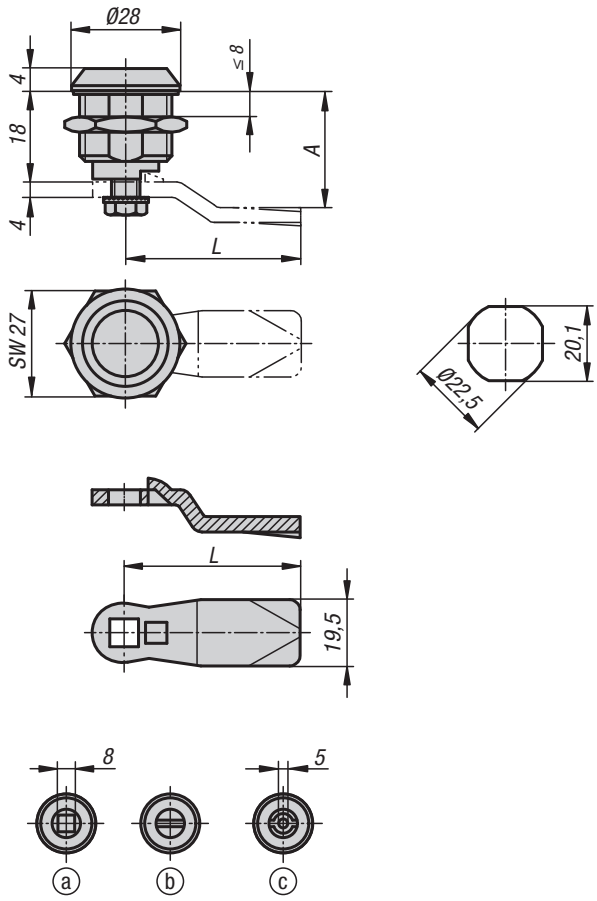
KIPP Tongue for quarter-turn lock

Order No.	A for housing length H=30	A for housing length H=40	A for housing length H=50	L
K1114.145X040	16	26	36	45
K1114.145X060	18	28	38	45
K1114.145X080	20	30	40	45
K1114.145X100	22	32	42	45
K1114.145X120	24	34	44	45
K1114.145X140	26	36	46	45
K1114.145X160	28	38	48	45
K1114.145X180	30	40	50	45
K1114.145X200	32	42	52	45
K1114.145X220	34	44	54	45
K1114.145X240	36	46	56	45
K1114.145X260	38	48	58	45
K1114.145X280	40	50	60	45
K1114.145X300	42	52	62	45
K1114.145X320	44	54	64	45
K1114.145X340	46	56	66	45
K1114.145X360	48	58	68	45
K1114.145X380	50	60	70	45
K1114.145X400	52	62	72	45
K1114.145X420	54	64	74	45

Quarter-turn locks

stainless steel





Material:
Quarter-turn lock 1.4305 stainless steel.
Tongue 1.4301 stainless steel.

Version:
Bright.

Sample order:
Quarter turn lock K1106.40186
Tongue K1114.245X180

Note:
Rating IP65. This is achieved using an additional O-ring underneath the actuator and a PUR seal foamed onto the housing. The quarter-turn lock can be installed pre-assembled. Please order the required tongue separately. Every tongue can be combined with this housing.

Drawing reference:
Actuation:
a) square 8 mm
b) slot
c) double lug 5 mm

KIPP Quarter-turn locks, stainless steel

Order No.	Actuation
K1106.40186	double lug 5 mm
K1106.20186	slot
K1106.18186	square 8 mm

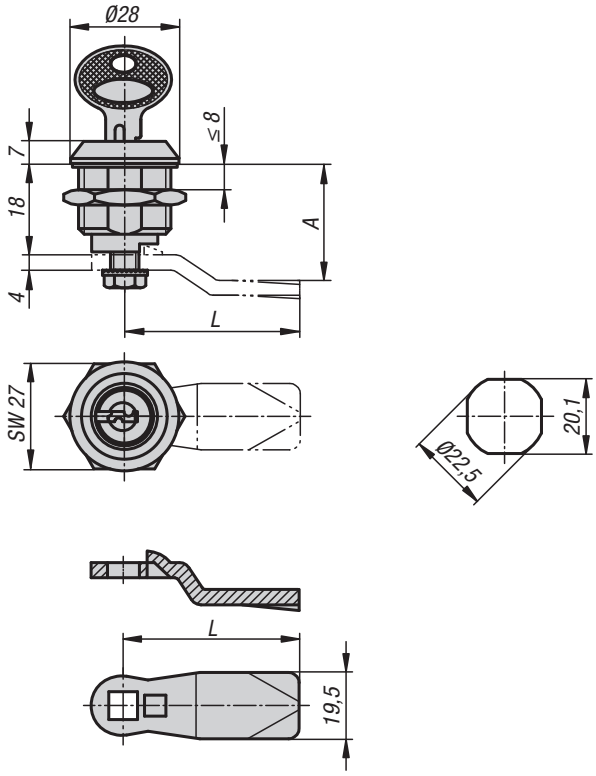
KIPP Tongue for quarter-turn lock

Order No.	A for housing length H=18	L
K1114.245X180	18	45
K1114.245X200	20	45
K1114.245X240	24	45
K1114.245X280	28	45
K1114.245X320	32	45
K1114.245X340	34	45
K1114.245X360	36	45
K1114.245X380	38	45
K1114.245X400	40	45
K1114.245X420	42	45

Quarter-turn locks

lockable, stainless steel





Material:
Quarter-turn lock 1.4401 stainless steel.
Tongue 1.4301 stainless steel.

Version:
Bright.

Sample order:
Quarter turn lock K1107.186
Tongue K1114.245X180

Note:
Lockable quarter-turn lock for right or left mounting with 90° closing. The quarter-turn lock can be installed pre-assembled. Please order required tongue separately. Every tongue can be combined with this housing.

These lockable quarter-turn locks are each supplied with 2 keys. The key can be removed in both the closed and open position. The cylinder locks have a single-key system i.e. the same key works in all locks.

KIPP Quarter-turn lock, lockable, stainless steel

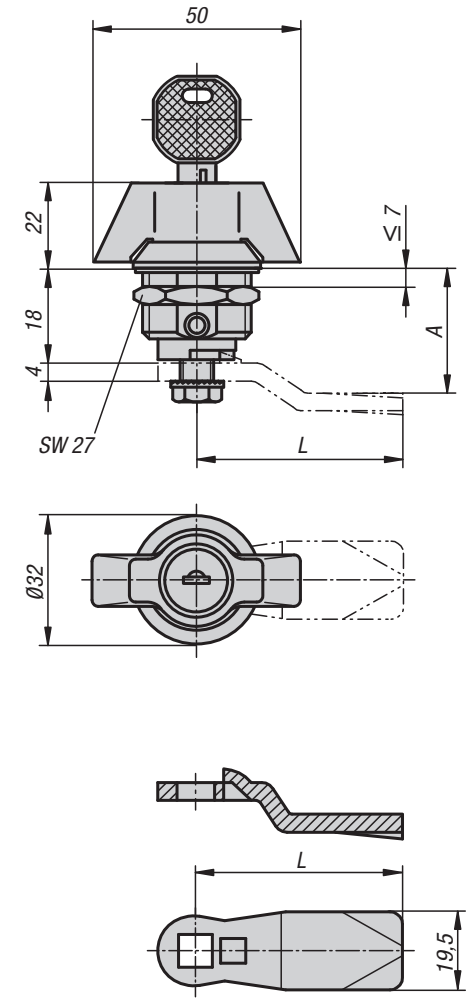
Order No.	Actuation
K1107.186	key

KIPP Tongue for quarter-turn lock

Bestellnummer	A bei Gehäuselänge H=18	L
K1114.245X180	18	45
K1114.245X200	20	45
K1114.245X240	24	45
K1114.245X280	28	45
K1114.245X320	32	45
K1114.245X340	34	45
K1114.245X360	36	45
K1114.245X380	38	45
K1114.245X400	40	45
K1114.245X420	42	45

Quarter-turn locks

stainless steel with wing grip





Material:
Quarter-turn lock 1.4401 stainless steel.
Tongue 1.4301 stainless steel.

Version:
Bright.

Sample order:
Quarter turn lock K1108.1186
Tongue K1114.245X180

Note:
Quarter-turn lock with wing grip. For right or left mounting with 90° closing. The quarter-turn lock can be installed pre-assembled. Supplied with standard stainless-steel nut. The lockable quarter-turn locks are each supplied with 2 keys. Please order the required tongue separately. Every tongue can be combined with this housing.

The key can be removed in both the closed and open position. The cylinder locks have a single-key system i.e. the same key works in all locks.

KIPP Quarter-turn lock, stainless steel with wing grip

Order No.	Actuation
K1108.1186	grip
K1108.2186	lockable grip

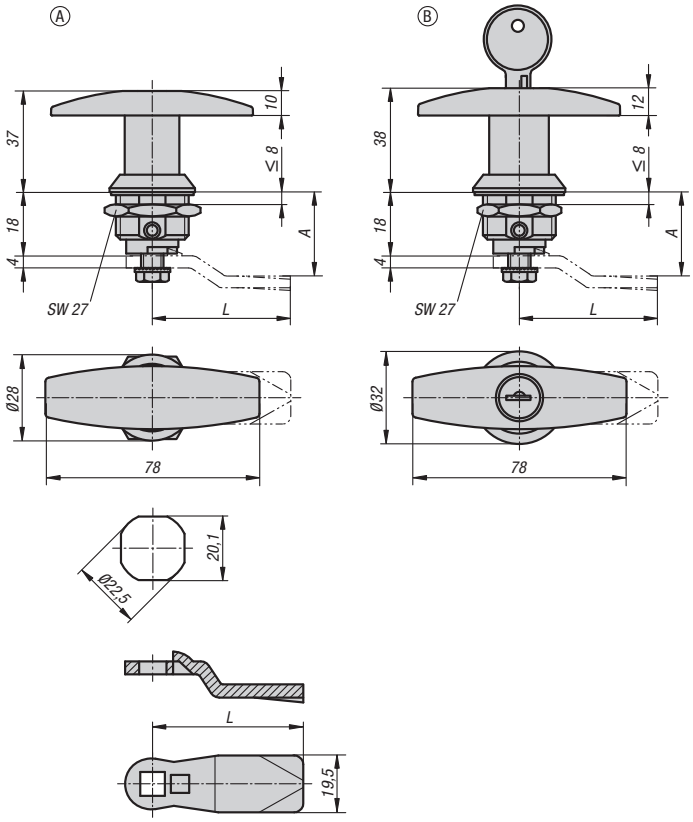
KIPP Tongue for quarter-turn lock

Order No.	A for housing length H=18	L
K1114.245X180	18	45
K1114.245X200	20	45
K1114.245X240	24	45
K1114.245X280	28	45
K1114.245X320	32	45
K1114.245X340	34	45
K1114.245X360	36	45
K1114.245X380	38	45
K1114.245X400	40	45
K1114.245X420	42	45

Quarter-turn locks

stainless steel with T-grip





Material:
Grip 1.4301 stainless steel.
Housing and nut 1.4305 stainless steel.
Tongue 1.4301 stainless steel.

Version:
Bright.

Sample order:
Quarter turn lock K1109.1186
Tongue K1114.245X180

Note:
Quarter-turn lock with T-grip. For right or left mounting with 90° closing. The quarter-turn lock can be installed pre-assembled. Supplied with standard stainless-steel nut. The lockable quarter-turn locks are each supplied with 2 keys. Rating IP65. Please order required tongue version separately. Every tongue can be combined with this housing.

The key can be removed in both the closed and open position. The cylinder locks have a single-key system i.e. the same key works in all locks.

KIPP Quarter-turn lock, stainless steel with T-grip

Order No.	Form	Actuation
K1109.1186	A	T-Grip
K1109.2186	B	lockable T-grip

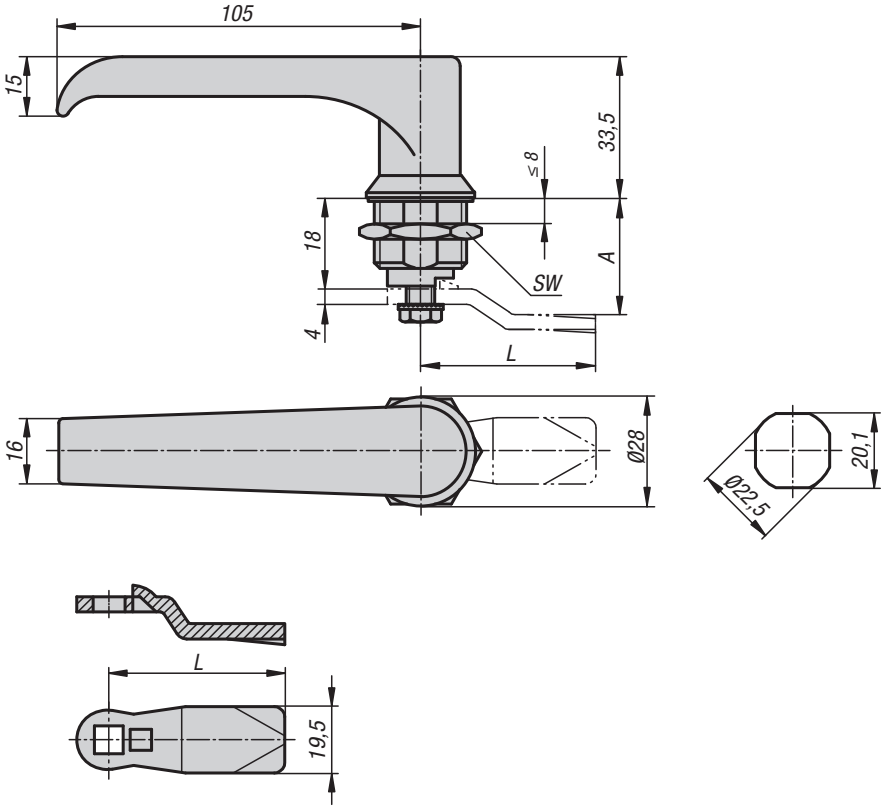
KIPP Tongue for quarter-turn lock

Order No.	A for housing length H=18	L
K1114.245X180	18	45
K1114.245X200	20	45
K1114.245X240	24	45
K1114.245X280	28	45
K1114.245X320	32	45
K1114.245X340	34	45
K1114.245X360	36	45
K1114.245X380	38	45
K1114.245X400	40	45
K1114.245X420	42	45

Quarter-turn locks

stainless steel with L-grip





Material:
Grip 1.4301 stainless steel.
Housing and nut 1.4305 stainless steel.
Tongue 1.4301 stainless steel.

Version:
Bright.

Sample order:
Quarter turn lock K1110.1186
Tongue K1114.245X180

Note:
Quarter-turn lock with L-grip. For right or left mounting with 90° closing. The quarter-turn lock can be installed pre-assembled. Supplied with standard stainless-steel nut. Rating IP65. Please order required tongue version separately. Every tongue can be combined with this housing.

KIPP Quarter-turn lock, stainless steel with L-grip

Order No.	Actuation
K1110.1186	L-grip

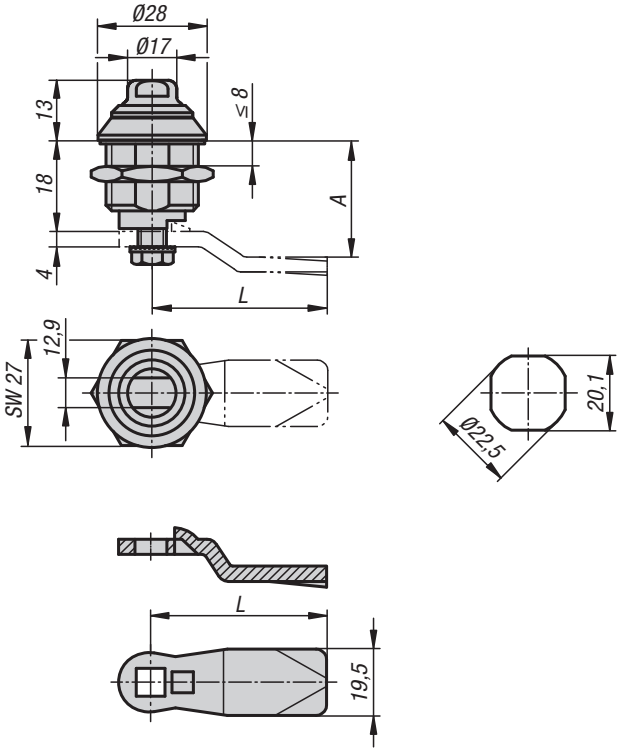
KIPP Tongue for quarter-turn lock

Order No.	A for housing length H=18	L
K1114.245X180	18	45
K1114.245X200	20	45
K1114.245X240	24	45
K1114.245X280	28	45
K1114.245X320	32	45
K1114.245X340	34	45
K1114.245X360	36	45
K1114.245X380	38	45
K1114.245X400	40	45
K1114.245X420	42	45

Quarter-turn locks

for sterile areas





Material:
Quarter-turn lock 1.4305 stainless steel.
Tongue 1.4301 stainless steel.

Version:
Bright.

Sample order:
Quarter turn lock K1111.60186
Tongue K1114.245X180

Note:
Stainless steel quarter-turn lock with 13 mm AF actuator for applications with hygienic requirements as per EN ISO 14159, EN 1672-2:2009* and BG (test certificate on request). Dust and waterproof as per IP69K. The rounded form and polished surfaces together with the material used make these locks insensitive to cleaning materials and resistant to dirt. The seal between the quarter-turn lock and the door is made using the captive PUR foam seal on the underside of the quarter-turn lock housing.

KIPP Quarter-turn lock for sterile areas

Order No.	Actuation
K1111.60186	double flat

KIPP Tongue for quarter-turn lock

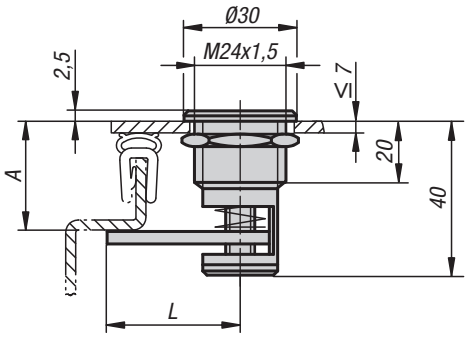
Order No.	A for housing length H=18	L
K1114.245X180	18	45
K1114.245X200	20	45
K1114.245X240	24	45
K1114.245X280	28	45
K1114.245X320	32	45
K1114.245X340	34	45
K1114.245X360	36	45
K1114.245X380	38	45
K1114.245X400	40	45
K1114.245X420	42	45

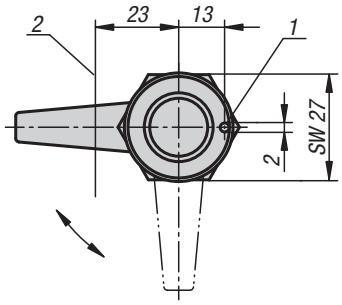
Notes

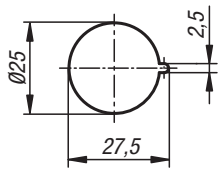
Compression latches

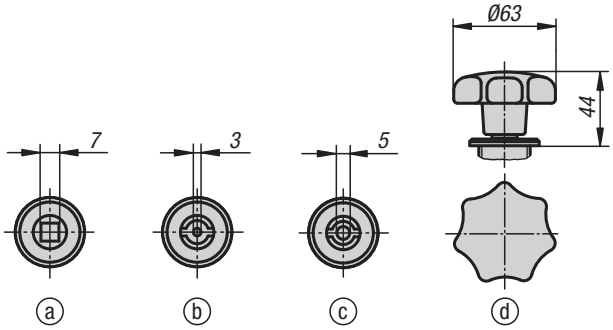
with variable compression











Material:
Compression latch steel.
DIN 6336 star grip Duroplast.

Version:
Compression latch galvanized and blue passivated.
Star grip black.

Sample order:
Compression latch K0528.1709161

Note:
Compression latches are primarily used for doors and housings that require a high pressure on the seal. Right or left deployment. The locking direction is always clockwise.

Assembly:
Cut a notch in a Ø25 mm hole for the locking pin. Pass the latch through the hole. The tongue must be in the end position and in the centre of the opening before the nut can be slipped on and tightened.

On request:
Water tight version according to IP 65.

Function:
Turning the actuator 90° brings the tongue into the closed position. Turning the actuator further winds the tongue up the thread and increases the pressure on the frame. To unlock the latch turn the actuator to the left. The tongue moves to the open position and, even doors with sticky seals can be easily opened.
The variable compression gap is 7 mm. The frame width range of 9-44 mm is covered by 7 offset tongues (dimension A).

Supplied completely assembled.

Accessories:
Key K0535

Drawing reference:
1) locating pin
2) frame

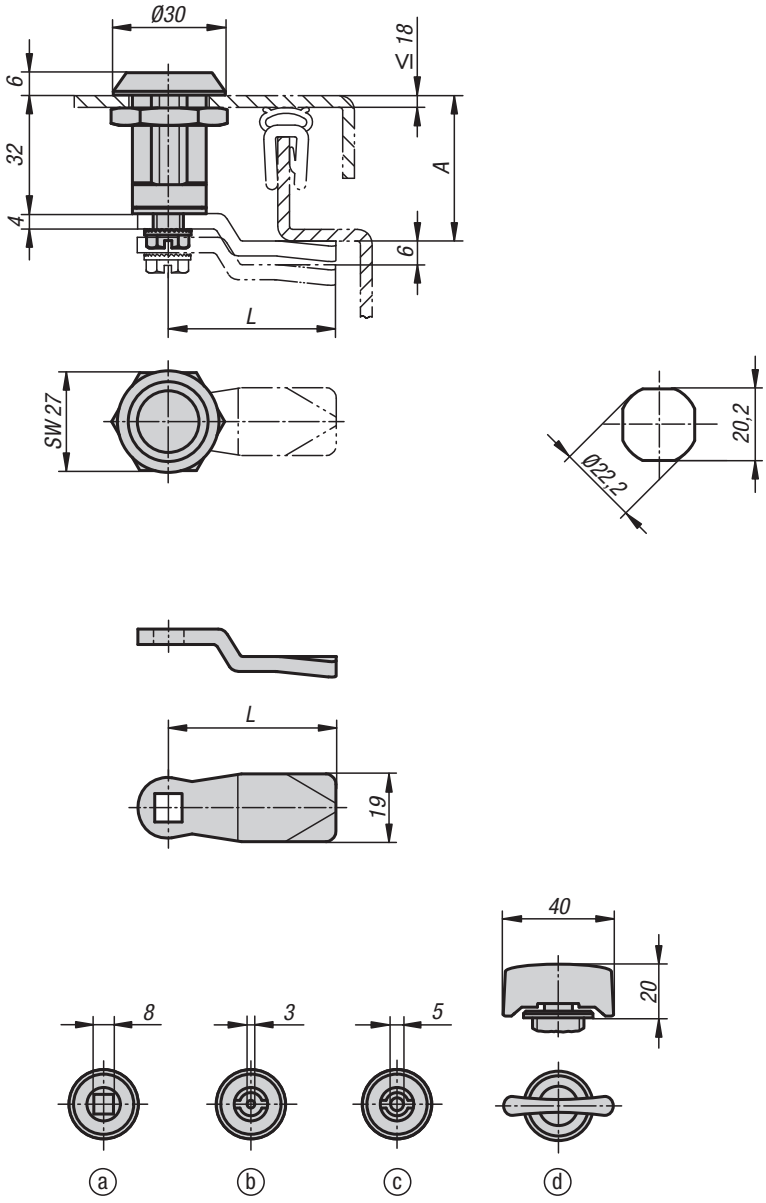
Actuation
a) square 7 mm
b) double lug 3 mm
c) double lug 5 mm
d) star grip

KIPP Compression latches with variable compression

Order No. square 7 mm	Order No. double lug 3 mm	Order No. double lug 5 mm	Order No. star grip	A	L
K0528.1709161	K0528.4309161	K0528.4509161	K0528.5009161	9-16	40,5
K0528.1713201	K0528.4313201	K0528.4513201	K0528.5013201	13 - 20	42,5
K0528.1717241	K0528.4317241	K0528.4517241	K0528.5017241	17 - 24	44
K0528.1723301	K0528.4323301	K0528.4523301	K0528.5023301	23 - 30	45
K0528.1729361	K0528.4329361	K0528.4529361	K0528.5029361	29 - 36	43
K0528.1733401	K0528.4333401	K0528.4533401	K0528.5033401	33 - 40	40,5
K0528.1737441	K0528.4337441	K0528.4537441	K0528.5037441	37 - 44	37

Compression latches





Material:
Housing and actuator die-cast zinc.
Flat seal rubber.
Tongue steel.

Version:
Housing and actuator chrome-plated.
Tongue galvanized.

Sample order:
Compression latch K0529.18321
Tongue K0530.145X320
(include tongue gap “A”)

Note:
Compression latches are primarily used for doors and housings that require a high pressure on the seal. Right or left deployment. The locking direction is always clockwise.

Vibration-proof, water and dust tight according to IP65. Please order the desired tongue type separately. Every tongue can be combined with every housing.

Function:
Turning the actuator 90° brings the tongue into the closed position. Turning the actuator another 90° draws the tongue into the frame increasing the pressure. The compression gap is 6 mm. The fastening nut is an earthing nut with teeth one side.

Accessories:
Key K0535

Drawing reference:
Actuation:
a) square 8 mm
b) double lug 3 mm
c) double lug 5 mm
d) toggle

KIPP Compression latches

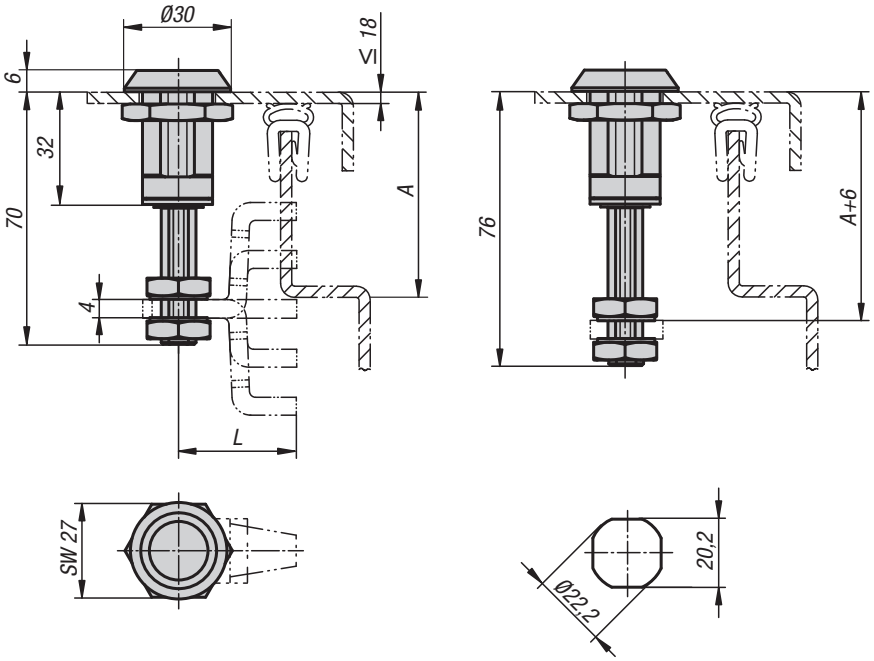
Order No.	Actuation
K0529.18321	square 8 mm
K0529.30321	grip
K0529.43321	double lug 3 mm
K0529.45321	double lug 5 mm

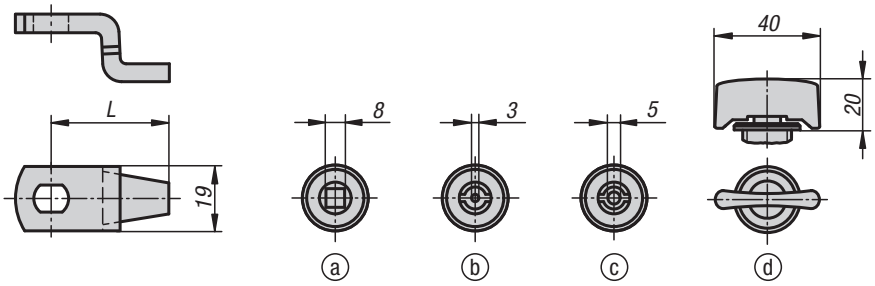
KIPP Tongue for compression latches

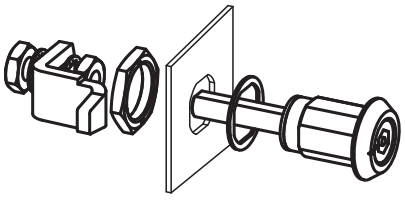
Order No.	A	L
K0530.145X	32/35/38/44	45
K0530.151X	32	51

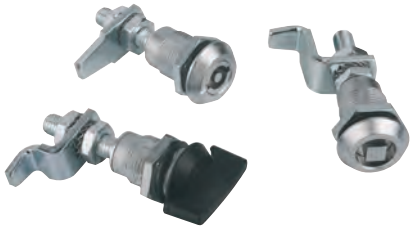
Compression latches

with adjustable tongue gap









Material:
Housing and actuator die-cast zinc.
Flat seal rubber.
Tongue steel.

Version:
Housing and actuator chrome-plated.
Wing-handle version powder-coated.
Tongue galvanized.

Sample order:
Compression latch K0531.18321
Tongue K0532.1000X590

Note:
Compression latches are primarily used for doors and housings that require a high pressure on the seal. Right or left deployment. The locking direction is always clockwise.

Vibration-proof, water and dust tight according to IP65. Please order the desired tongue type separately. Every tongue can be combined with every housing.

Function:
Turning the actuator 90° brings the tongue into the closed position. Turning the actuator another 90° draws the tongue into the frame increasing the pressure. The compression gap is 6 mm. The fastening nut is an earthing nut with teeth one side. The offset tongue can be installed positive or negative.

Accessories:
Key K0535

Drawing reference:
Actuation:
a) square 8 mm
b) double lug 3 mm
c) double lug 5 mm
d) toggle

KIPP Compression latches with adjustable tongue gap

Order No.	Actuation
K0531.18321	square 8 mm
K0531.43321	double lug 3 mm
K0531.45321	double lug 5 mm
K0531.30322	grip

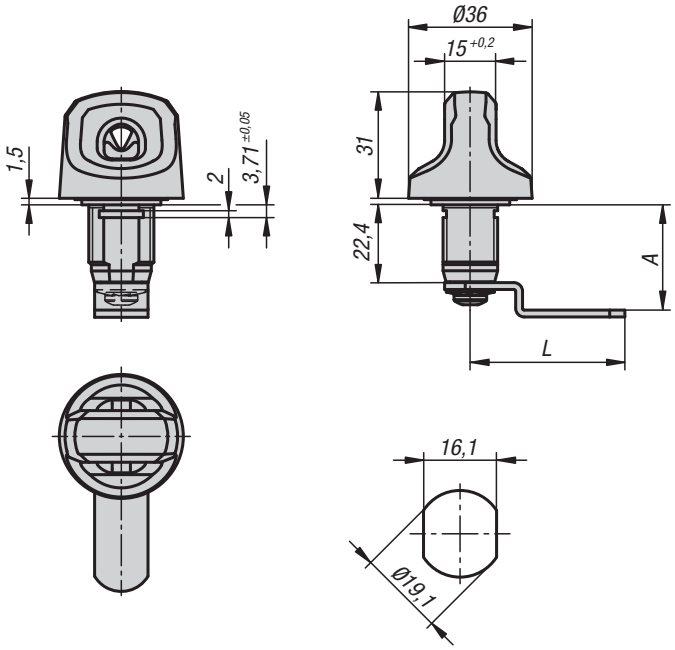
KIPP Tongues for compression latches with adjustable tongue gap

Order No.	A	L
K0532.1000X590	40 - 59	33
K0532.1140X730	26 - 45 / 52 - 73	33
K0532.1275X860	12 - 32 / 68 - 86	33

Quarter-turn locks

free-turning





Material:
Housing and actuator die-cast zinc.
Nut brass.
Tongue steel.

Version:
Housing galvanised and blue passivated.
Lever black KTL coated.
Tongue galvanised.

Sample order:
K1275.22224

Note:
Particularly suitable for steel cabinets, lockers in changing rooms, schools, leisure facilities and industrial companies.

Method of operation:
The integrated free-turning function provides higher security against violent actuation compared to conventional locks.

Assembly:
The quarter-turn lock can be installed pre-assembled.

Attention:
Optimum functionality is guaranteed with padlocks with a shackle diameter of Ø6 – Ø8 mm.

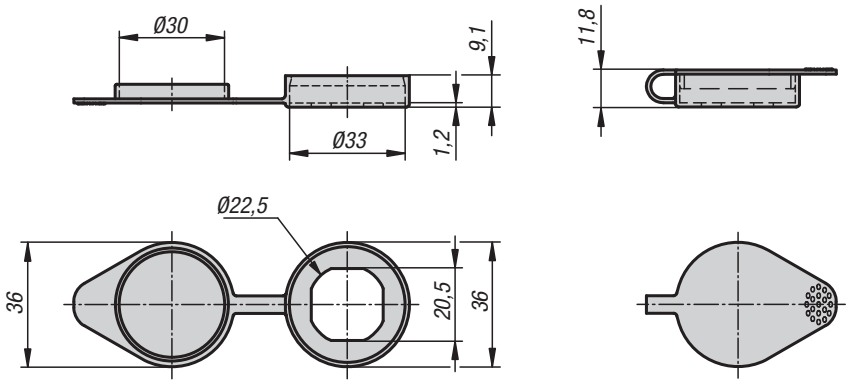


KIPP Quarter-turn lock, free-turning

Order No.	A	L
K1275.22224	22,4	44
K1275.22248	24,8	42
K1275.22304	30,4	45
K1275.22359	35,9	49
K1275.22424	42,4	45

K0533

Dust caps







Material:
Thermoplastic plastic (PU).

Version:
black.

Sample order:
K0533.202230

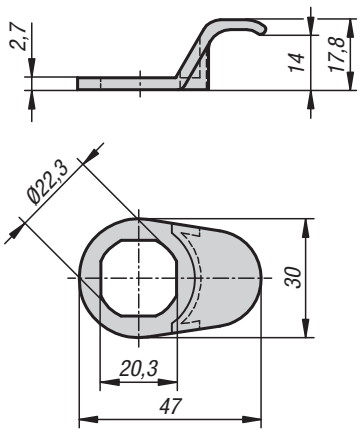
Note:
Dust caps for compression latches with a head diameter up to max. 32 mm. It offers increased protection from dust and moisture. If the dust cap is used, dimension “A” of the compression latch is reduced by 1 mm.

KIPP Dust caps

Order No.
K0533.202230

K0534

Opening grips







Material:
Thermoplastic plastic (PA).

Version:
black.

Sample order:
K0534.202230

Note:
Practical opening grip for compression latches with a head diameter up to max. 30 mm. If the opening grip is used, dimension “A” of the compression latch is reduced by 2.5 mm.

KIPP Opening grips

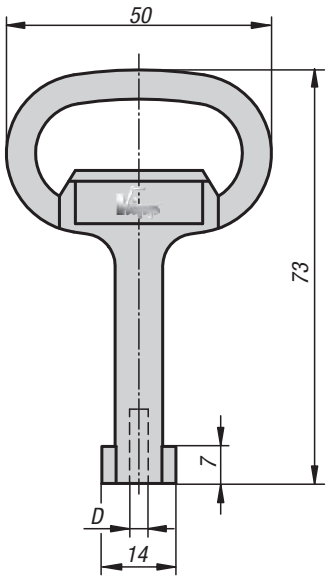
Order No.
K0534.202230

Keys

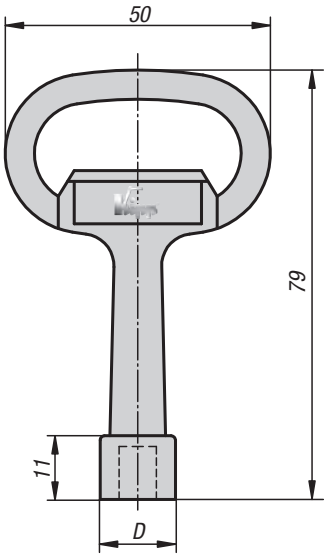
for latches and locks



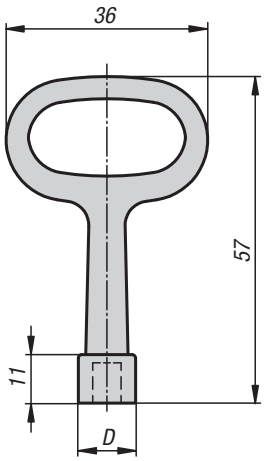
Ⓐ



Ⓑ



Ⓒ



Material:
Die-cast zinc.

Version:
chromium-plated.

Sample order:
K0535.43

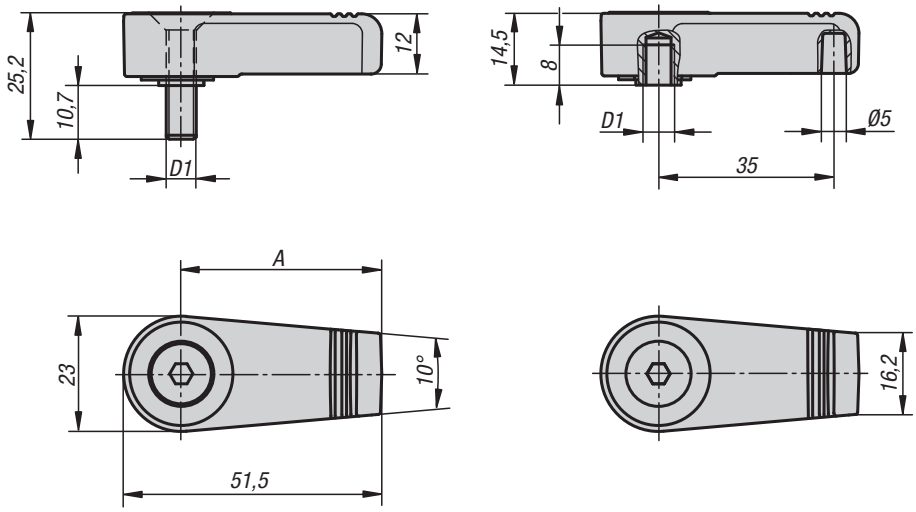
Note:
For operating compression latches and quarter-turn locks.

KIPP Keys for latches and locks

Order No.	Form	Version	D
K0535.43	A	double lug 3 mm	3
K0535.45	A	double lug 5 mm	5
K0535.17	B	square 7 mm	15
K0535.18	B	square 8 mm	15
K0535.16	C	square 6 mm	11,5

Stop latches



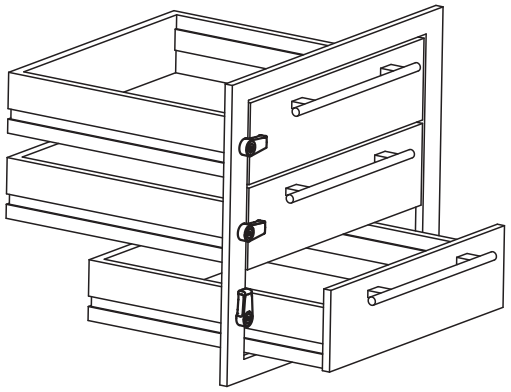


Material:
Housing die-cast zinc, plastic-coated.
Pin steel 1.0718.
Washer plastic.
Circlip spring steel.
Countersunk screw steel grade 8.8.

Version:
Housing black or red.
Pin blue passivated steel.
Circlip and countersunk screw, black.

Sample order:
K0271.140061

Note:
Engagement every 90°.

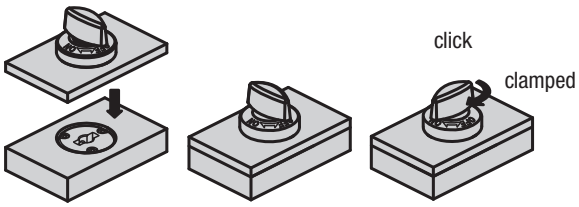


KIPP Stop latch

Order No.	Main colour	Version	A	D1
K0271.140061	black	internal thread	40	M6
K0271.140062	red	internal thread	40	M6
K0271.140061X10	black	external thread	40	M6
K0271.140062X10	red	external thread	40	M6

Technical Information
Quarter-turn clamp lock K1061 and clamping plate K1062

1. Application:



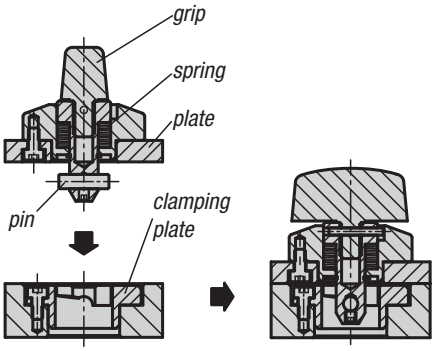
Make sure that the knob is in the “OFF” position.

Insert the pin of the quarter-turn clamp lock into the clamping plate.

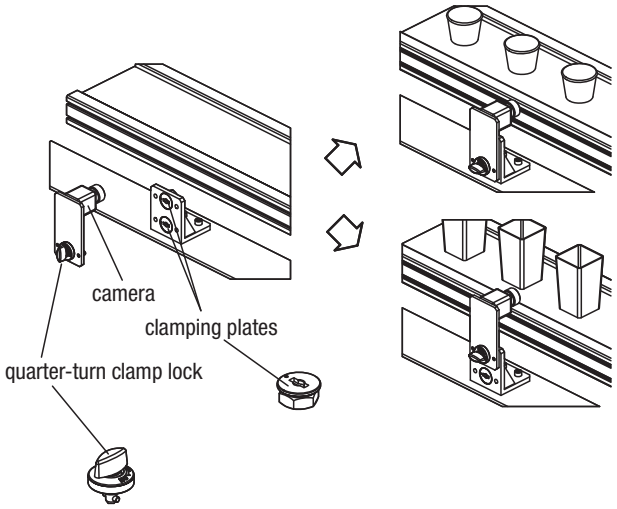
To lock components, turn the knob to the “ON” position. A click signals the opening/ closing.

2. Function:

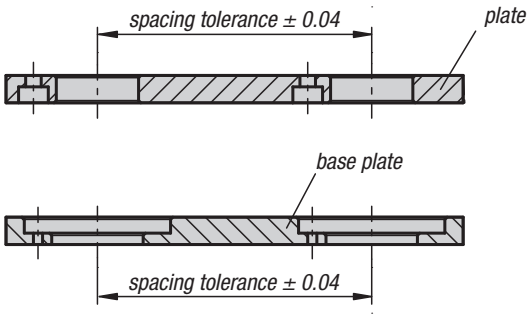
The knob is linked to the centre pin with a transverse pin. When the knob of the quarter-turn clamp lock is turned, the centre pin engages with the clamping plate and locks the components together.



Application examples:
Altering camera positions

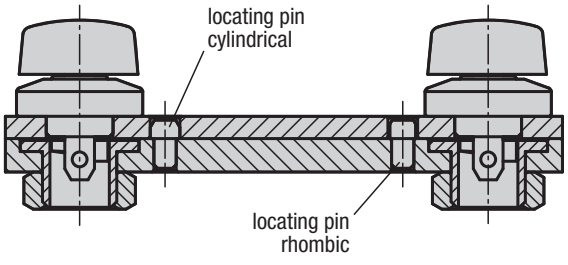


Production tolerances:



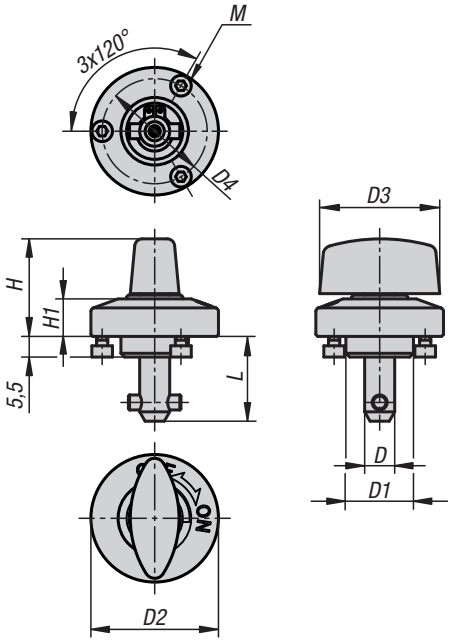
Repeat accuracy:

Repeat accuracy of ± 0.1 can be achieved with the aid of additional locating pins (not supplied).



Quarter-turn clamp locks

grip plastic or stainless steel





Material:
Housing steel.
Pin stainless steel.
Knob stainless steel or thermoplastic PA (polyamide).

Version:
Housing nickel-plated.
Pin bright.
Knob reinforced PA fibreglass, black.
Knob stainless steel, bright.

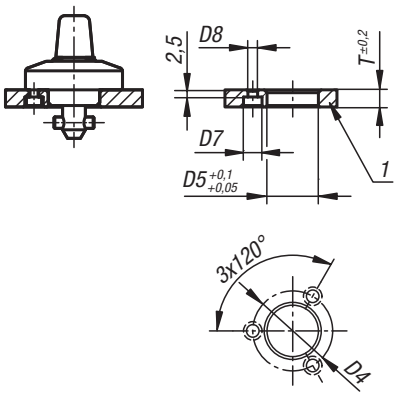
Sample order:
K1061.516

Note:
M2 or M3 mounting screws are supplied.
Form A mounting option for plate thickness 6 or 12 mm.
Form B mounting option for plate thickness 12 to 20 mm.

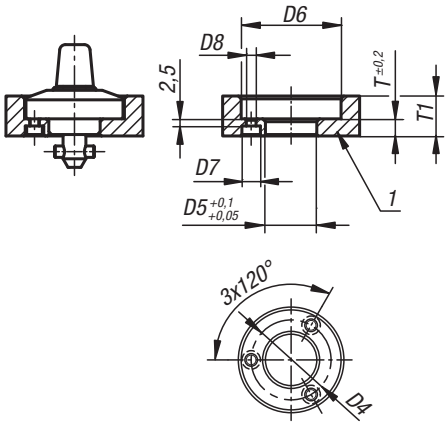
Accessories:
Clamping plates K1062

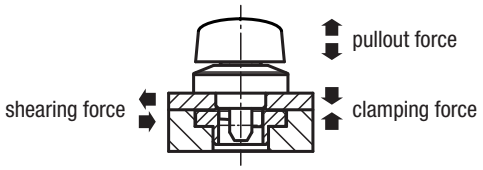
Drawing reference:
1) plate

Ⓐ



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KIPP Quarter-turn clamp locks, grip plastic or stainless steel

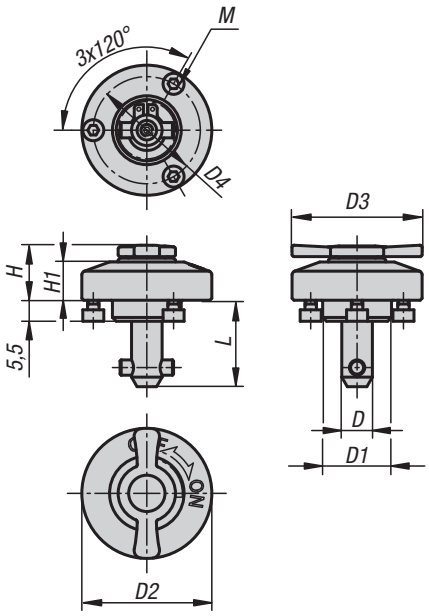
Order No. Plastic	Order No. Stainless steel	D	L	D1	D2	D3	D4	H	H1	M	D5	D6	D7	D8	T	T1
K1061.516	K1061.5161	5	15,5	14	25	20	21	19 / 19	6,5	M2x3	14	26	4,4	2,4	6	6-10
K1061.817	K1061.8171	8	17	18	34	32	28	26 / 25,5	10	M3x4	18	35	6,5	3,4	6	6-14
K1061.823	K1061.8231	8	23	18	34	32	28	26 / 25,5	10	M3x4	18	35	6,5	3,4	12	12-20

KIPP Quarter-turn clamp lock, technical information

Order No. Plastic	Order No. Stainless steel	D	L	Clamping force N	Shearing force kN	Pullout force kN	Temp. resistance up to
K1061.516	K1061.5161	5	15,5	60	1,8	1,2	130 °C / 200 °C
K1061.817	K1061.8171	8	17	90	3,2	2,6	130 °C / 200 °C
K1061.823	K1061.8231	8	23	90	3,2	2,6	130 °C / 200 °C

Quarter-turn clamp locks flat





Material:
Housing steel.
Pin stainless steel.
Knob stainless steel.

Version:
Housing nickel-plated.
Pin bright.
Knob stainless steel, bright.

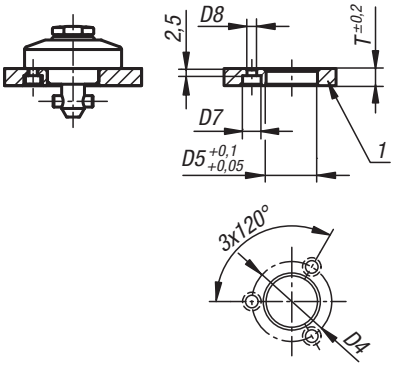
Sample order:
K1061.5162

Note:
M2 or M3 mounting screws are supplied.
Form A mounting option for plate thickness 6 or 12 mm.
Form B mounting option for plate thickness 12 to 20 mm.

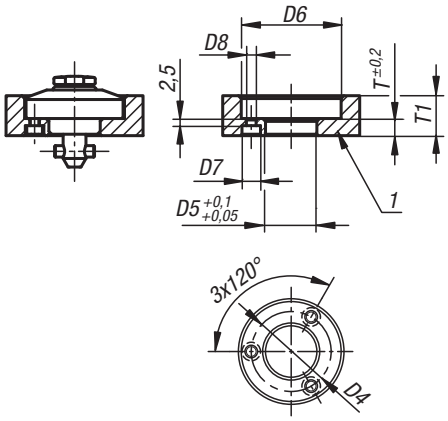
Accessories:
Clamping plates K1062

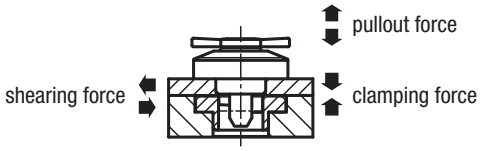
Drawing reference:
1) plate

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KIPP Quarter-turn clamp locks, flat

Order No.	D	D1	D2	D3	D4	H	H1	L	M	D5	D6	D7	D8	T	T1
K1061.5162	5	14	25	20	21	11,5	6,5	15,5	M2x3	14	26	4,4	2,4	6	6-10
K1061.8172	8	18	34	32	28	15,4	10	17	M3x4	18	35	6,5	3,4	6	6-14
K1061.8232	8	18	34	32	28	15,4	10	23	M3x4	18	35	6,5	3,4	12	12-20

KIPP Quarter-turn clamp lock, technical information

Order No.	Clamping force N	Shearing force kN	Pullout force kN	Temp. resistance up to
K1061.5162	60	1,8	1,2	200 °C
K1061.8172	90	3,2	2,6	200 °C
K1061.8232	90	3,2	2,6	200 °C

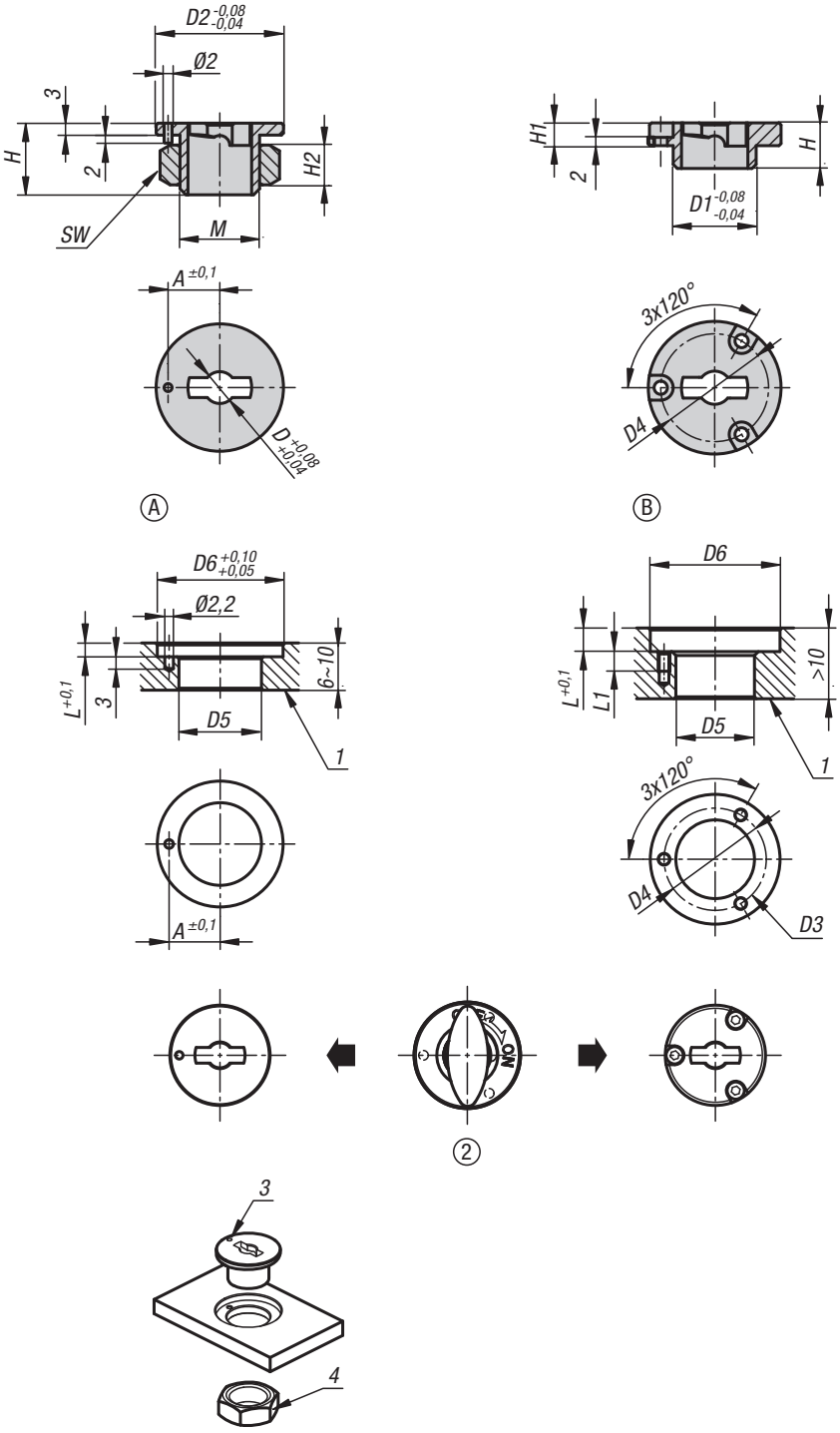
Clamping plates

for quarter-turn clamp locks



Ⓐ
Clamping plate surface mounted
for plate thickness from 6 to 10 mm

Ⓑ
Clamping plate recessed
for plate thickness > 10 mm



Material:
Housing steel.
Nut stainless steel.

Version:
Housing nickel-plated.
Nut bright.

Sample order:
K1062.50

Note:
M2 or M3 mounting screws are supplied.
Form A mounting option for plate thickness 6 to 10 mm.
Form B mounting option for plate thickness over 10 mm.

Drawing reference:
1) plate
2) quarter-turn clamp lock
3) locating pin
4) nut

KIPP Clamping plates for quarter-turn clamp locks

Order No. superimposed	Order No. countersunk	D	D1	D2	D4	A	M	H2	SW	H	H1	D3 for screw to DIN 912	D5	D6	L	L1
K1062.50	**K1062.501**	5	- / 14	25	21	10,5 / -	M14X1,5 / -	8	22	16 / 9	4,5	- / M2	15 / 14	25 / 26	3,5 / 5	- / 4
K1062.80	**K1062.801**	8	- / 20	32	26	13 / -	M20X1,5 / -	10	30	18 / 11	5,5	- / M3	21 / 20	32 / 33	3,5 / 6	- / 5

Hinges



Technical information
Hinges

Hinges
We have listed a wide range of hinges on the following pages. Many more combinations are possible where hinges with guide tabs are required i.e. when combining aluminium profiles with different slot widths.

Left and right hinge
Each lift-off hinge has a left and right version. Before ordering it should be known on which side the door or hatch is to be mounted.

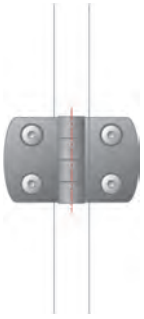
Left hinge.
The left hinge half is fixed.
The hatch or door opens from right to left.



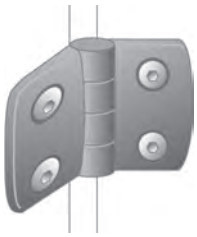
Right hinge.
The right hinge half is fixed.
The hatch or door opens from left to right.



Fixed hinge.
The hinge is non-liftoff.
It is suitable for opening left or right.



Guide tabs
Many hinges can be supplied on request with guide tabs for the slots of aluminium profiles. They secure the hinge against twisting and make it stronger. The hinges are designed in such a way that the guide tabs can simply be broken out with a screwdriver.



without
guide tabs

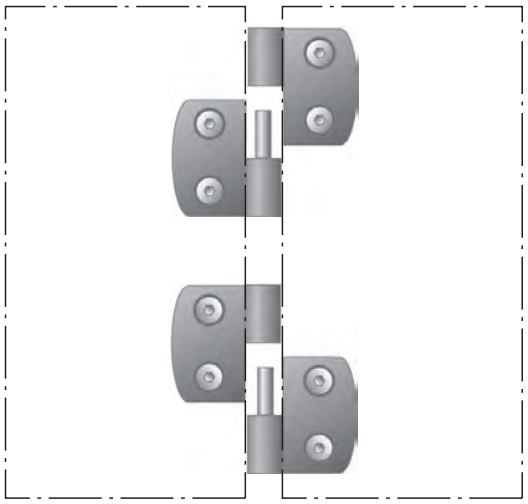




with
guide tabs
for aluminium
profiles with slot



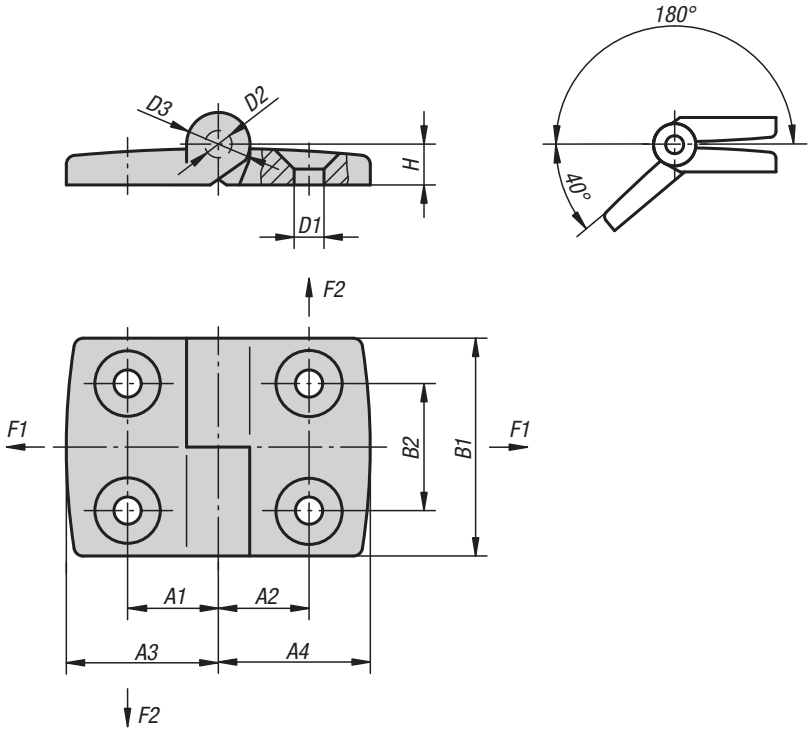
Tip
If you want to fit a door or hatch so that it cannot be lifted off, you can still use a left and right lift-off hinge. The two hinges are fitted in the end position and secure each other mutually.



Hinges

plastic, lift-off, left





Material:
Fibreglass reinforced thermoplastic.
Hinge pin stainless steel.

Version:
Hinge black. Pin bright.

Sample order:
K0434.1301825

Note:
All hinges can be supplied on request with guide tabs for the slots of aluminium profiles (slots 6, 8 and 10). They facilitate mounting, secure the hinge against twisting and make it stronger.

KIPP Hinges plastic, lift-off, left

Order No.	A1	A2	A3	A4	B1	B2	D1	D2	D3	H	F1 max. kN	F2 max. kN
K0434.1251515	15	15	26	26	48	28	6,6	6	14	9	0,625	0,425
K0434.1251518	15	17,5	26	29,5	48	28	6,6	6	14	9	0,7	0,5
K0434.1251520	15	20	26	35,5	48	28	6,6	6	14	9	0,7	0,4
K0434.1251523	15	22,5	26	38,5	48	28	6,6	6	14	9	0,8	0,35
K0434.1251525	15	25	26	43,5	48	28	6,6	6	14	9	0,8	0,325
K0434.1251528	15	27,5	26	48,5	48	28	6,6	6	14	9	0,8	0,32
K0434.1251533	15	32,5	26	57,5	48	28	6,6	6	14	9	0,8	0,24
K0434.1301815	17,5	15	29,5	26	48	28	6,6	6	14	9	0,75	0,45
K0434.1301818	17,5	17,5	29,5	29,5	48	28	6,6	6	14	9	0,75	0,5
K0434.1301820	17,5	20	29,5	35,5	48	28	6,6	6	14	9	0,75	0,4
K0434.1301823	17,5	22,5	29,5	38,5	48	28	6,6	6	14	9	0,8	0,35
K0434.1301825	17,5	25	29,5	43,5	48	28	6,6	6	14	9	0,8	0,35
K0434.1301828	17,5	27,5	29,5	48,5	48	28	6,6	6	14	9	0,8	0,35
K0434.1301833	17,5	32,5	29,5	57,5	48	28	6,6	6	14	9	0,8	0,24
K0434.1352015	20	15	35,5	26	48	28	6,6	6	14	9	0,75	0,4
K0434.1352018	20	17,5	35,5	29,5	48	28	6,6	6	14	9	0,75	0,5
K0434.1352020	20	20	35,5	35,5	48	28	6,6	6	14	9	0,75	0,4
K0434.1352023	20	22,5	35,5	38,5	48	28	6,6	6	14	9	0,8	0,35
K0434.1352025	20	25	35,5	43,5	48	28	6,6	6	14	9	0,8	0,35
K0434.1352028	20	27,5	35,5	48,5	48	28	6,6	6	14	9	0,9	0,35
K0434.1352033	20	32,5	35,5	57,5	48	28	6,6	6	14	9	0,8	0,24

Hinges

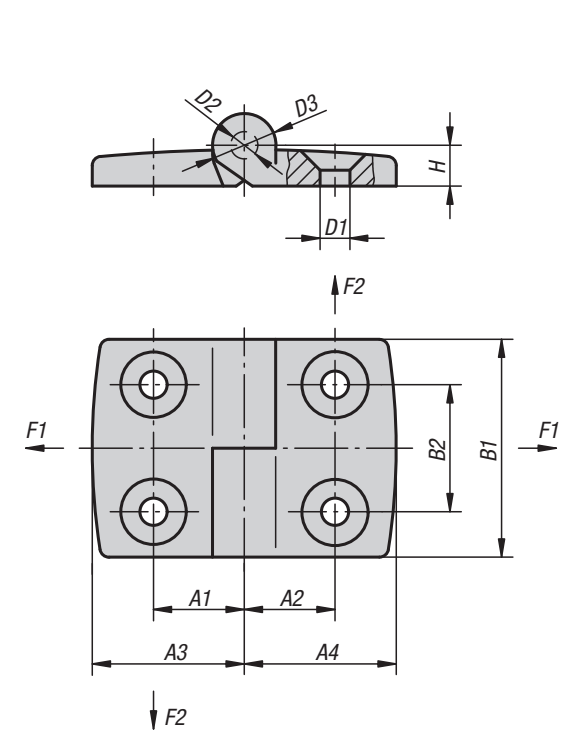
plastic, lift-off, left

KIPP Hinges plastic, lift-off, left

Order No.	A1	A2	A3	A4	B1	B2	D1	D2	D3	H	F1 max. kN	F2 max. kN
K0434.1402315	22,5	15	38,5	26	48	28	6,6	6	14	9	0,65	0,425
K0434.1402318	22,5	17,5	38,5	29,5	48	28	6,6	6	14	9	0,75	0,5
K0434.1402320	22,5	20	38,5	35,5	48	28	6,6	6	14	9	0,75	0,4
K0434.1402323	22,5	22,5	38,5	38,5	48	28	6,6	6	14	9	0,8	0,4
K0434.1402325	22,5	25	38,5	43,5	48	28	6,6	6	14	9	0,8	0,35
K0434.1402328	22,5	27,5	38,5	48,5	48	28	6,6	6	14	9	0,8	0,35
K0434.1402333	22,5	32,5	38,5	57,5	48	28	6,6	6	14	9	0,8	0,24
K0434.1452515	25	15	43,5	26	48	28	6,6	6	14	9	0,65	0,425
K0434.1452518	25	17,5	43,5	29,5	48	28	6,6	6	14	9	0,75	0,5
K0434.1452520	25	20	43,5	35,5	48	28	6,6	6	14	9	0,7	0,4
K0434.1452523	25	22,5	43,5	38,5	48	28	6,6	6	14	9	0,8	0,35
K0434.1452525	25	25	43,5	43,5	48	28	6,6	6	14	9	0,8	0,325
K0434.1452528	25	27,5	43,5	48,5	48	28	6,6	6	14	9	0,8	0,32
K0434.1452533	25	32,5	43,5	57,5	48	28	6,6	6	14	9	0,8	0,24
K0434.1502815	27,5	15	48,5	26	48	28	6,6	6	14	9	0,65	0,425
K0434.1502818	27,5	17,5	48,5	29,5	48	28	6,6	6	14	9	0,75	0,5
K0434.1502820	27,5	20	48,5	35,5	48	28	6,6	6	14	9	0,7	0,4
K0434.1502823	27,5	22,5	48,5	38,5	48	28	6,6	6	14	9	0,8	0,35
K0434.1502825	27,5	25	48,5	43,5	48	28	6,6	6	14	9	0,8	0,325
K0434.1502828	27,5	27,5	48,5	48,5	48	28	6,6	6	14	9	0,8	0,32
K0434.1502833	27,5	32,5	48,5	57,5	48	28	6,6	6	14	9	0,8	0,24
K0434.1603315	32,5	15	57,5	26	48	28	6,6	6	14	9	0,65	0,425
K0434.1603318	32,5	17,5	57,5	29,5	48	28	6,6	6	14	9	0,75	0,5
K0434.1603320	32,5	20	57,5	35,5	48	28	6,6	6	14	9	0,7	0,4
K0434.1603323	32,5	22,5	57,5	38,5	48	28	6,6	6	14	9	0,8	0,35
K0434.1603325	32,5	25	57,5	43,5	48	28	6,6	6	14	9	0,8	0,325
K0434.1603328	32,5	27,5	57,5	48,5	48	28	6,6	6	14	9	0,9	0,32
K0434.1603333	32,5	32,5	57,5	57,5	48	28	6,6	6	14	9	0,9	0,24

Hinges

plastic, lift-off, right





Material:
Fibreglass reinforced thermoplastic.
Hinge pin stainless steel.

Version:
Hinge black. Pin bright.

Sample order:
K0434.2251523

Note:
All hinges can be supplied on request with guide tabs for the slots of aluminium profiles (slots 6, 8 and 10). They facilitate mounting, secure the hinge against twisting and make it stronger.

KIPP Hinges plastic, lift-off, right

Order No.	A1	A2	A3	A4	B1	B2	D1	D2	D3	H	F1 max. kN	F2 max. kN
K0434.2251515	15	15	26	26	48	28	6,6	6	14	9	0,625	0,425
K0434.2251518	15	17,5	26	29,5	48	28	6,6	6	14	9	0,7	0,5
K0434.2251520	15	20	26	35,5	48	28	6,6	6	14	9	0,7	0,4
K0434.2251523	15	22,5	26	38,5	48	28	6,6	6	14	9	0,8	0,35
K0434.2251525	15	25	26	43,5	48	28	6,6	6	14	9	0,8	0,325
K0434.2251528	15	27,5	26	48,5	48	28	6,6	6	14	9	0,8	0,32
K0434.2251533	15	32,5	26	57,5	48	28	6,6	6	14	9	0,8	0,24
K0434.2301815	17,5	15	29,5	26	48	28	6,6	6	14	9	0,75	0,45
K0434.2301818	17,5	17,5	29,5	29,5	48	28	6,6	6	14	9	0,75	0,5
K0434.2301820	17,5	20	29,5	35,5	48	28	6,6	6	14	9	0,7	0,4
K0434.2301823	17,5	22,5	29,5	38,5	48	28	6,6	6	14	9	0,8	0,35
K0434.2301825	17,5	25	29,5	43,5	48	28	6,6	6	14	9	0,8	0,35
K0434.2301828	17,5	27,5	29,5	48,5	48	28	6,6	6	14	9	0,8	0,35
K0434.2301833	17,5	32,5	29,5	57,5	48	28	6,6	6	14	9	0,8	0,24
K0434.2352015	20	15	35,5	26	48	28	6,6	6	14	9	0,7	0,4
K0434.2352018	20	17,5	35,5	29,5	48	28	6,6	6	14	9	0,75	0,5
K0434.2352020	20	20	35,5	35,5	48	28	6,6	6	14	9	0,75	0,4
K0434.2352023	20	22,5	35,5	38,5	48	28	6,6	6	14	9	0,8	0,35
K0434.2352025	20	25	35,5	43,5	48	28	6,6	6	14	9	0,8	0,35
K0434.2352028	20	27,5	35,5	48,5	48	28	6,6	6	14	9	0,8	0,35
K0434.2352033	20	32,5	35,5	57,5	48	28	6,6	6	14	9	0,8	0,24
K0434.2402315	22,5	15	38,5	26	48	28	6,6	6	14	9	0,65	0,425
K0434.2402318	22,5	17,5	38,5	29,5	48	28	6,6	6	14	9	0,75	0,5
K0434.2402320	22,5	20	38,5	35,5	48	28	6,6	6	14	9	0,75	0,4

Hinges

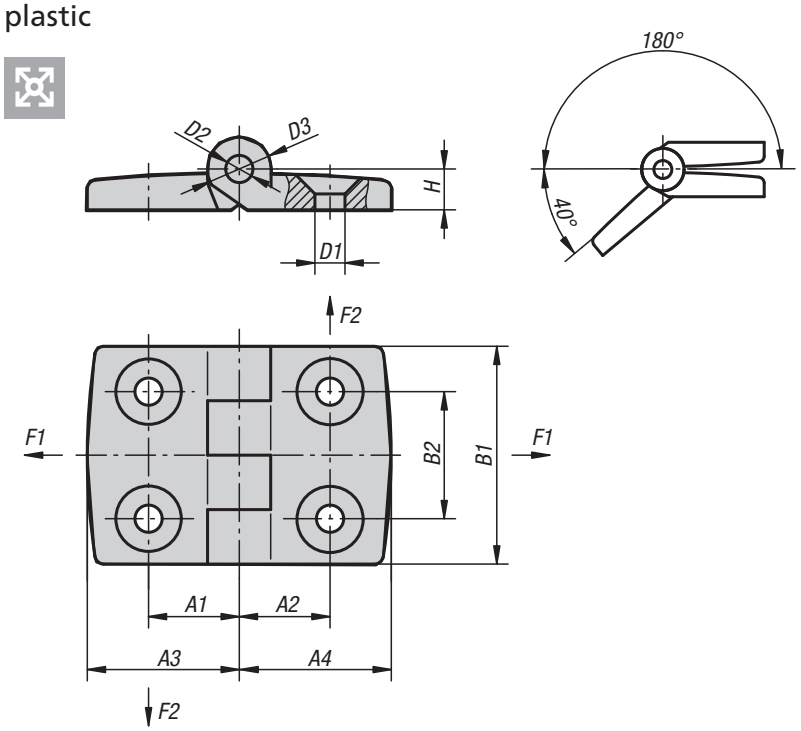
plastic, lift-off, right

KIPP Hinges plastic, lift-off, right

Order No.	A1	A2	A3	A4	B1	B2	D1	D2	D3	H	F1 max. kN	F2 max. kN
K0434.2402323	22,5	22,5	38,5	38,5	48	28	6,6	6	14	9	0,8	0,35
K0434.2402325	22,5	25	38,5	43,5	48	28	6,6	6	14	9	0,8	0,35
K0434.2402328	22,5	27,5	38,5	48,5	48	28	6,6	6	14	9	0,8	0,35
K0434.2402333	22,5	32,5	38,5	57,5	48	28	6,6	6	14	9	0,8	0,24
K0434.2452515	25	15	43,5	26	48	28	6,6	6	14	9	0,65	0,425
K0434.2452518	25	17,5	43,5	29,5	48	28	6,6	6	14	9	0,75	0,5
K0434.2452520	25	20	43,5	35,5	48	28	6,6	6	14	9	0,7	0,4
K0434.2452523	25	22,5	43,5	38,5	48	28	6,6	6	14	9	0,8	0,35
K0434.2452525	25	25	43,5	43,5	48	28	6,6	6	14	9	0,8	0,325
K0434.2452528	25	27,5	43,5	48,5	48	28	6,6	6	14	9	0,8	0,32
K0434.2452533	25	32,5	43,5	57,5	48	28	6,6	6	14	9	0,8	0,24
K0434.2502815	27,5	15	48,5	26	48	28	6,6	6	14	9	0,65	0,425
K0434.2502818	27,5	17,5	48,5	29,5	48	28	6,6	6	14	9	0,75	0,5
K0434.2502820	27,5	20	48,5	35,5	48	28	6,6	6	14	9	0,7	0,4
K0434.2502823	27,5	22,5	48,5	38,5	48	28	6,6	6	14	9	0,8	0,35
K0434.2502825	27,5	25	48,5	43,5	48	28	6,6	6	14	9	0,8	0,325
K0434.2502828	27,5	27,5	48,5	48,5	48	28	6,6	6	14	9	0,8	0,32
K0434.2502833	27,5	32,5	48,5	57,5	48	28	6,6	6	14	9	0,8	0,24
K0434.2603315	32,5	15	57,5	26	48	28	6,6	6	14	9	0,65	0,425
K0434.2603318	32,5	17,5	57,5	29,5	48	28	6,6	6	14	9	0,75	0,5
K0434.2603320	32,5	20	57,5	35,5	48	28	6,6	6	14	9	0,7	0,4
K0434.2603323	32,5	22,5	57,5	38,5	48	28	6,6	6	14	9	0,8	0,35
K0434.2603325	32,5	25	57,5	43,5	48	28	6,6	6	14	9	0,8	0,325
K0434.2603328	32,5	27,5	57,5	48,5	48	28	6,6	6	14	9	0,9	0,32
K0434.2603333	32,5	32,5	57,5	57,5	48	28	6,6	6	14	9	0,9	0,24

Hinges

plastic





Material:
Fibreglass reinforced thermoplastic.
Hinge pin stainless steel.

Version:
Hinge black. Pin bright.

Sample order:
K0435.251528

Note:
Unequal leaf hinges can be mounted left or right.
All hinges can be supplied on request with guide tabs for the slots of aluminium profiles (slots 6, 8 and 10). They facilitate mounting, secure the hinge against twisting and make it stronger.

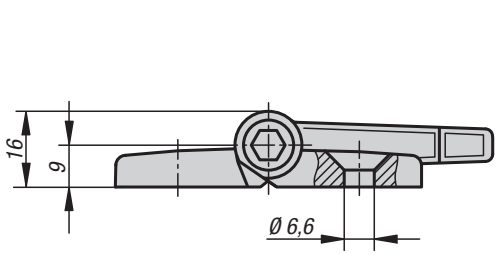
KIPP Hinges plastic

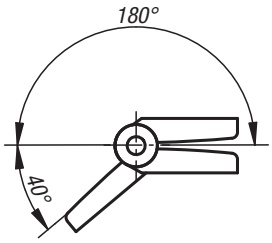
Order No.	A1	A2	A3	A4	B1	B2	D1	D2	D3	H	F1 max. kN	F2 max. kN
K0435.201212	11,5	11,5	19,5	19,5	30	14	4,2	3	8	5,5	0,4	0,2
K0435.251515	15	15	26	26	48	28	6,6	6	14	9	0,625	0,425
K0435.251518	15	17,5	26	29,5	48	28	6,6	6	14	9	0,7	0,5
K0435.251520	15	20	26	35,5	48	28	6,6	6	14	9	0,7	0,4
K0435.251523	15	22,5	26	38,5	48	28	6,6	6	14	9	0,8	0,35
K0435.251525	15	25	26	43,5	48	28	6,6	6	14	9	0,8	0,325
K0435.251528	15	27,5	26	48,5	48	28	6,6	6	14	9	0,8	0,32
K0435.251533	15	32,5	26	57,5	48	28	6,6	6	14	9	0,8	0,24
K0435.301818	17,5	17,5	29,5	29,5	48	28	6,6	6	14	9	0,7	0,4
K0435.301820	17,5	20	29,5	35,5	48	28	6,6	6	14	9	0,7	0,4
K0435.301823	17,5	22,5	29,5	38,5	48	28	6,6	6	14	9	0,75	0,45
K0435.301825	17,5	25	29,5	43,5	48	28	6,6	6	14	9	0,75	0,45
K0435.301828	17,5	27,5	29,5	48,5	48	28	6,6	6	14	9	0,9	0,425
K0435.301833	17,5	32,5	29,5	57,5	48	28	6,6	6	14	9	0,85	0,2
K0435.352020	20	20	35,5	35,5	48	28	6,6	6	14	9	0,7	0,4
K0435.352023	20	22,5	35,5	38,5	48	28	6,6	6	14	9	0,75	0,45
K0435.352025	20	25	35,5	43,5	48	28	6,6	6	14	9	0,75	0,45
K0435.352028	20	27,5	35,5	48,5	48	28	6,6	6	14	9	0,8	0,425
K0435.352033	20	32,5	35,5	57,5	48	28	6,6	6	14	9	0,8	0,175
K0435.402323	22,5	22,5	38,5	38,5	48	28	6,6	6	14	9	0,75	0,45
K0435.402325	22,5	25	38,5	43,5	48	28	6,6	6	14	9	0,75	0,45
K0435.402328	22,5	27,5	38,5	48,5	48	28	6,6	6	14	9	0,8	0,425
K0435.402333	22,5	32,5	38,5	57,5	48	28	6,6	6	14	9	0,85	0,175
K0435.452525	25	25	43,5	43,5	48	28	6,6	6	14	9	0,75	0,45
K0435.452528	25	27,5	43,5	48,5	48	28	6,6	6	14	9	0,8	0,425
K0435.452533	25	32,5	43,5	57,5	48	28	6,6	6	14	9	0,85	0,2
K0435.502828	27,5	27,5	48,5	48,5	48	28	6,6	6	14	9	0,8	0,425
K0435.502833	27,5	32,5	48,5	57,5	48	28	6,6	6	14	9	0,85	0,2
K0435.603333	32,5	32,5	57,5	57,5	48	28	6,6	6	14	9	0,85	0,175

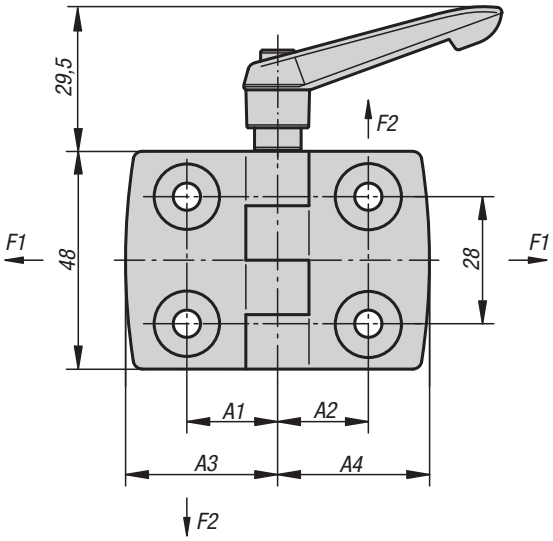
Hinges

plastic, with locking lever









Material:
Hinge and lever fibreglass reinforced thermoplastic.
Hinge pin steel.
Mechanism steel.

Version:
Hinge black.
Pin galvanized.
Locking lever black.
Mechanism black galvanized.

Sample order:
K0436.251515

Note:
The indexable lever allows the hinge to be locked in any position.

On request:
Hinges with guide tabs (slot 6, 8 and 10) for aluminium profiles.
Unequal leaf combinations.



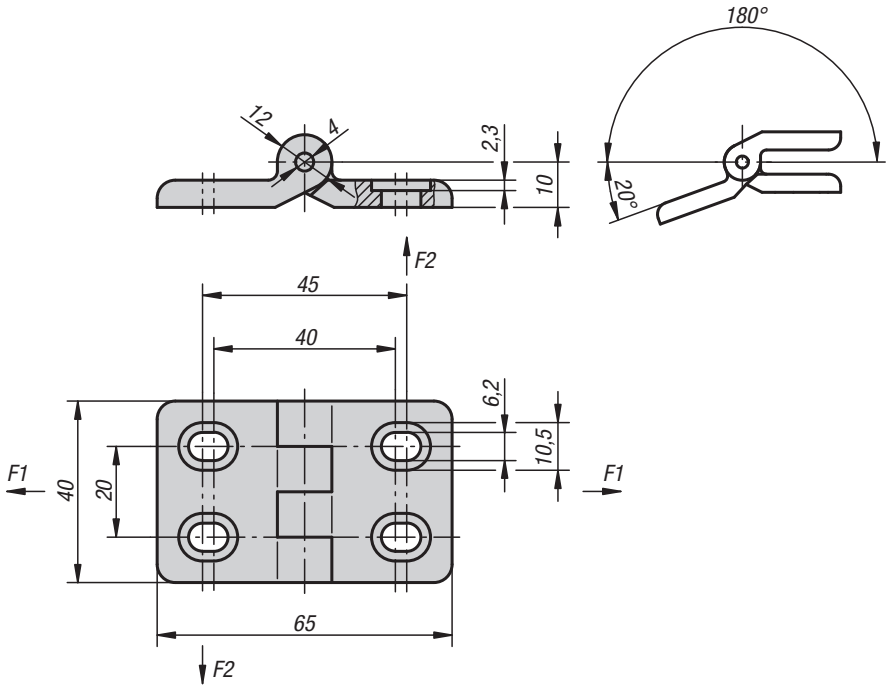
KIPP Hinges plastic with locking lever

Order No.	A1	A2	A3	A4	F1 max. kN	F2 max. kN
K0436.251515	15	15	26	26	0,5	0,38
K0436.301818	17,5	17,5	29,5	29,5	0,7	0,4
K0436.352020	20	20	36	36	0,7	0,4
K0436.402323	22,5	22,5	38,5	38,5	0,75	0,45
K0436.452525	25	25	43,5	43,5	0,75	0,45
K0436.502828	27,5	27,5	48,5	48,5	0,8	0,425
K0436.603333	32,5	32,5	57,5	57,5	0,85	0,175

Hinges

plastic, with elongated holes





Material:
Fibreglass reinforced thermoplastic.
Hinge pin stainless steel.

Version:
Hinge black. Pin bright.

Sample order:
K0437.402020

Note:
Elongated holes allow easy horizontal adjustment.

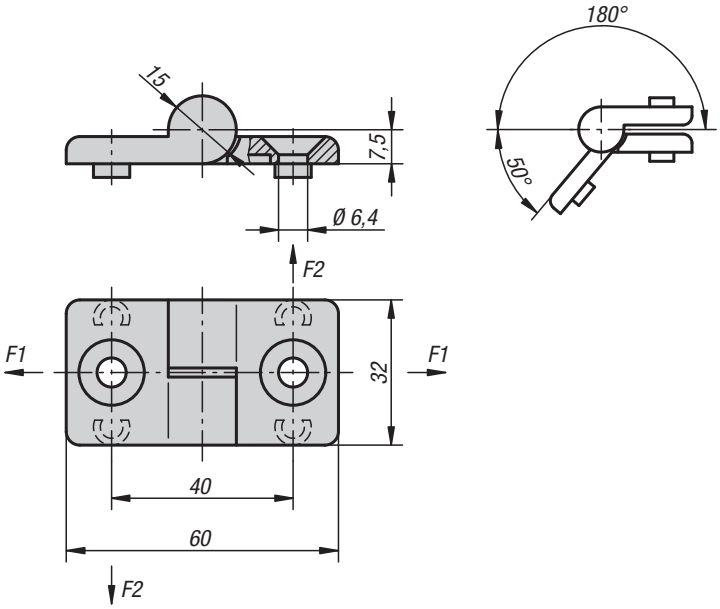
KIPP Hinge plastic, with elongated holes

Order No.	F1 max. kN	F2 max. kN
K0437.402020	0,5	0,3

Hinges

plastic, lift-off, with guide tabs





Material:
Fibreglass reinforced thermoplastic.
Hinge pin stainless steel.
Washer thermoplastic.

Version:
Hinge and washer black. Pin bright.

Sample order:
K0438.1322020

Note:
The guide tabs permit the hinges to be mounted in slots (8 mm).

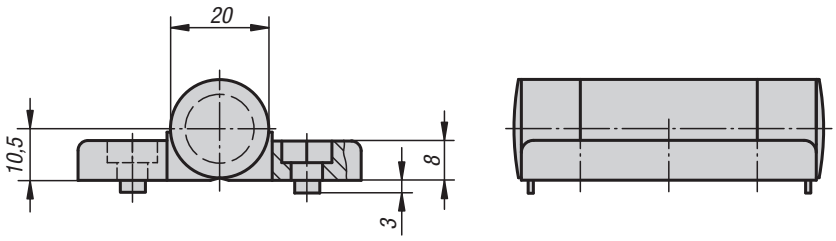
KIPP Hinges, plastic, lift-off, with guide tabs

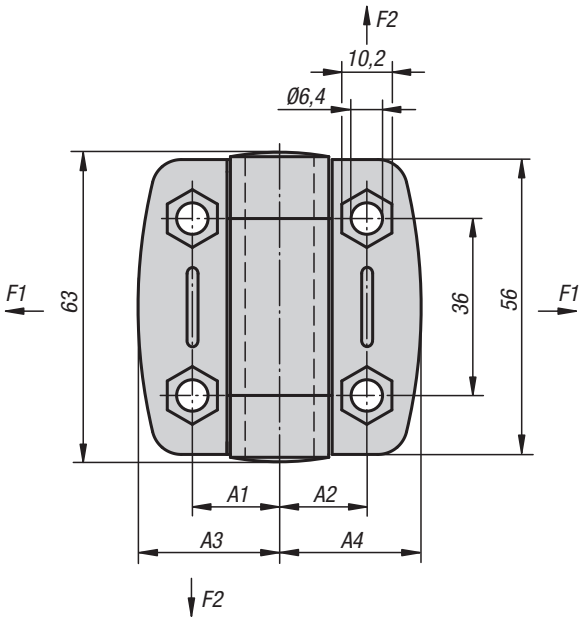
Order No.	Version	F1 max. kN	F2 max. kN
K0438.1322020	left	0,2	0,1
K0438.2322020	right	0,2	0,1

Hinges

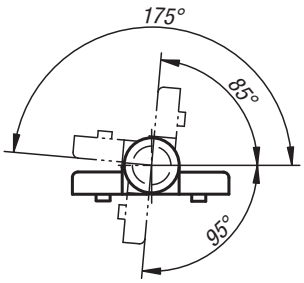
plastic, with detent







indexed positions



Material:
Hinge and caps fibreglass reinforced PA thermoplastic.
Hinge pin stainless steel.

Version:
Hinge and caps black.
Pin bright.

Sample order:
K0439.56181800

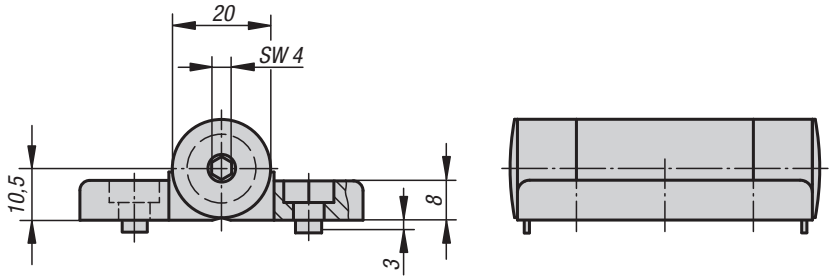
Note:
These hinges have a detent mechanism. This mechanism holds a door or lid open at three different angles or tightly closed. The hinges are available with or without guide tabs for aluminium profile slots. The hinges can be located in a slot using the guide tabs.

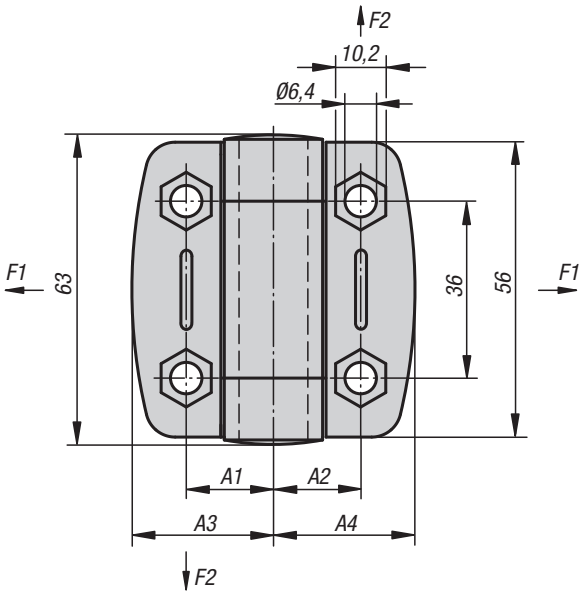
KIPP Hinges plastic, with detent

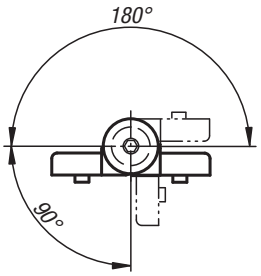
Order No.	A1	A2	A3	A4	Guide tabs for slot	F1 max. kN	F2 max. kN
K0439.56181800	17,75	17,75	27	27	-	0,4	0,35
K0439.56181806	17,75	17,75	27	27	6	0,4	0,35
K0439.56181808	17,75	17,75	27	27	8	0,4	0,35
K0439.56232300	22,75	22,75	36,75	36,75	-	0,6	0,425
K0439.56232308	22,75	22,75	36,75	36,75	8	0,6	0,425
K0439.56232310	22,75	22,75	36,75	36,75	10	0,6	0,425

Hinges

plastic, with adjustable friction









Material:
Hinge and caps, fibreglass reinforced PA thermoplastic.
Metal parts stainless steel.

Version:
Hinge and caps black.
Metal parts bright.

Sample order:
K0440.56181800

Note:
These friction hinges allow doors or lids to remain open in any position. A set screw allows the amount of friction to be infinitely adjusted between 0-5 Nm. The hinges are available with or without guide tabs for aluminium profile slots. The hinges can be located in a slot using the guide tabs.



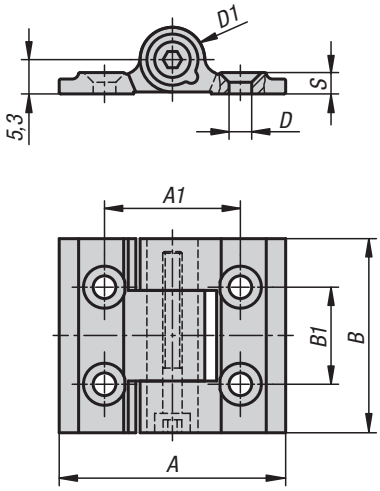
KIPP Hinges plastic, with adjustable friction

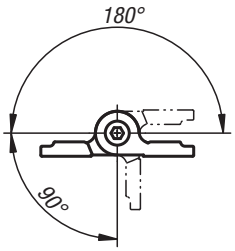
Order No.	A1	A2	A3	A4	Guide tabs for slot	F1 max. kN	F2 max. kN
K0440.56181800	17,75	17,75	27	27	-	0,4	0,325
K0440.56181806	17,75	17,75	27	27	6	0,4	0,325
K0440.56181808	17,75	17,75	27	27	8	0,4	0,325
K0440.56232300	22,75	22,75	36,75	36,75	-	0,6	0,425
K0440.56232308	22,75	22,75	36,75	36,75	8	0,6	0,425
K0440.56232310	22,75	22,75	36,75	36,75	10	0,6	0,425

Hinges

aluminium, with adjustable friction







Material:
Aluminium 6060 T5.
End caps PA 6.6.
Washers POM.

Version:
Black anodized

Sample order:
K1195.35301

Note:
These friction hinges allow doors to remain open at any desired angle. A set screw allows the amount of friction to be infinitely adjusted between 0–1 Nm. Opening angle 270°.

Max. tensile strength: 2240 N
Max. shear strength: 1050 N

Fastened using DIN 7991 countersunk screws.

Temperature range:
From -20°C to +80°C

KIPP Hinges aluminium, with adjustable friction

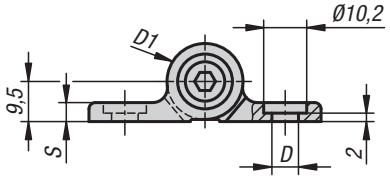
Order No.	A	A1	B	B1	D	D1	S
K1195.35301	35	21	30	15	3,5	10	3,3

Hinges

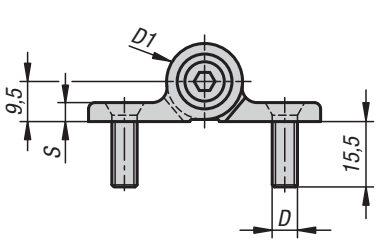
aluminium, with adjustable friction

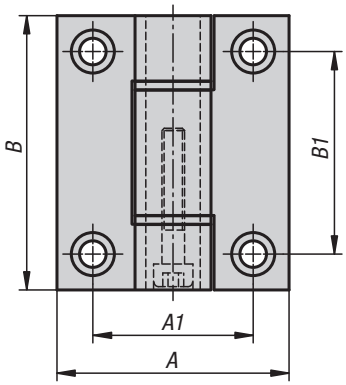


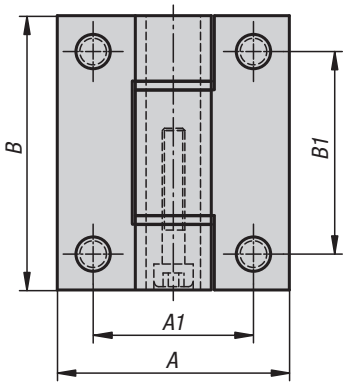
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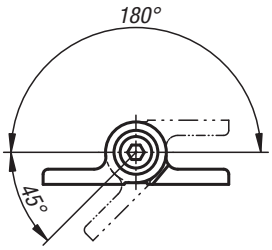


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Material:
Aluminium 6060 T5.
Sleeve POM.
Set screw stainless steel.
Washers PA.
Fastening screws steel.

Version:
Black anodised.
Fastening screws galvanised.

Sample order:
K1196.55651

Note:
These friction hinges allow doors to remain open at any desired angle. A set screw allows the amount of friction to be infinitely adjusted between 0–5 Nm.
Opening angle 225°.

Max. tensile strength: 6000 N
Max. shear strength: 5000 N

Temperature range:
From -20°C to +80°C

Accessories:
Socket head screws with hexagon socket DIN 912/EN ISO 4762

Drawing reference:
Form A: fastened using DIN 912/EN ISO 4762 socket head screws.
Form B: fastened using threaded pins.

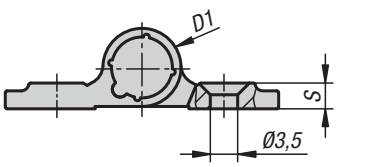
KIPP Hinges aluminium, with adjustable friction

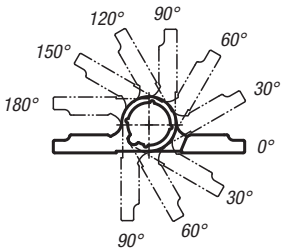
Order No.	Form	A	A1	B	B1	D	D1	S
K1196.55651	A	55	38	65	48	6,3	18	4,5
K1196.556511	B	55	38	65	48	6,3	18	4,5

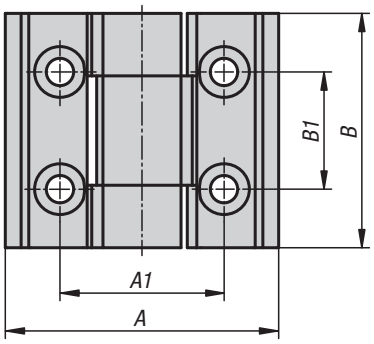
Hinges

aluminium, with detent









Material:
Aluminium 6060 T5.
Screws and nuts stainless steel.
Washers PA.

Version:
Black anodized

Sample order:
K1197.35301

Note:
These hinges have a detent mechanism that indexes every 30° from 0° to 270° and holds doors or hatches open or tightly closed.
The detent torque is not adjustable.
Torque tolerance ±20%

Fastened using DIN 7991 countersunk screws.

Temperature range:
From -30°C to +70°C

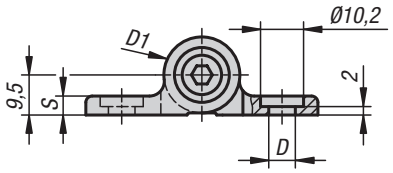
KIPP Hinges aluminium, with detent

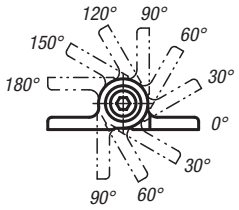
Order No.	A	A1	B	B1	D	D1	S	Max. torque Nm
K1197.35301	35	21	30	15	3,5	10	3,3	0,3

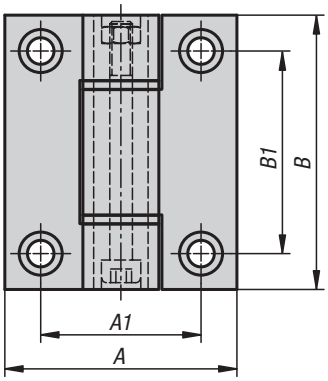
Hinges

aluminium, with detent









Material:
Aluminium 6060 T5.
Screws and nuts stainless steel.
Washers PA.

Version:
Black anodized

Sample order:
K1198.556711

Note:
These hinges have a detent mechanism that indexes every 30° from 0° to 270° and holds doors or hatches open or tightly closed.
The detent torque is not adjustable.

The hinges have a more than 30000 cycle service life.
Torque tolerance ±20%

Fastened using DIN 912/EN ISO 4762 socket head screws.

Temperature range:
From -30°C to +70°C

Accessories:
Socket head screws with hexagon socket DIN 912/EN ISO 4762

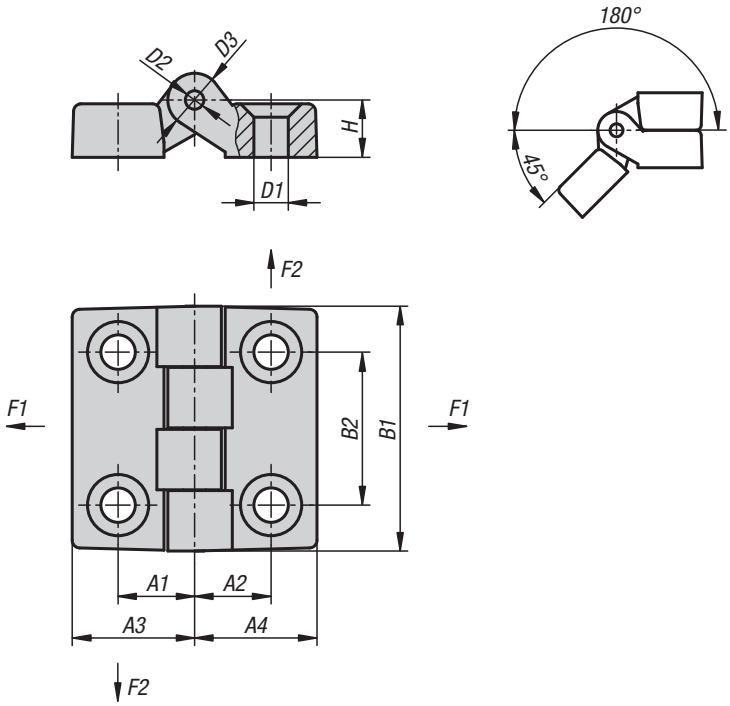
KIPP Hinges aluminium, with detent

Order No.	A	A1	B	B1	D	D1	S	Max. torque Nm
K1198.556711	55	38	67	48	6,3	18	4,5	1,8
K1198.556712	55	38	67	48	6,3	18	4,5	2,5
K1198.556713	55	38	67	48	6,3	18	4,5	3,2
K1198.556715	55	38	67	48	6,3	18	4,5	5

Hinges plastic

with fastening holes





Material:
Fibreglass reinforced thermoplastic.
Hinge pin steel.

Version:
Hinge black.
Hinge pin galvanised.

Sample order:
K1004.0161010

Note:
Hinge with fastening holes
for countersunk screw DIN 7991/UNI 5933.

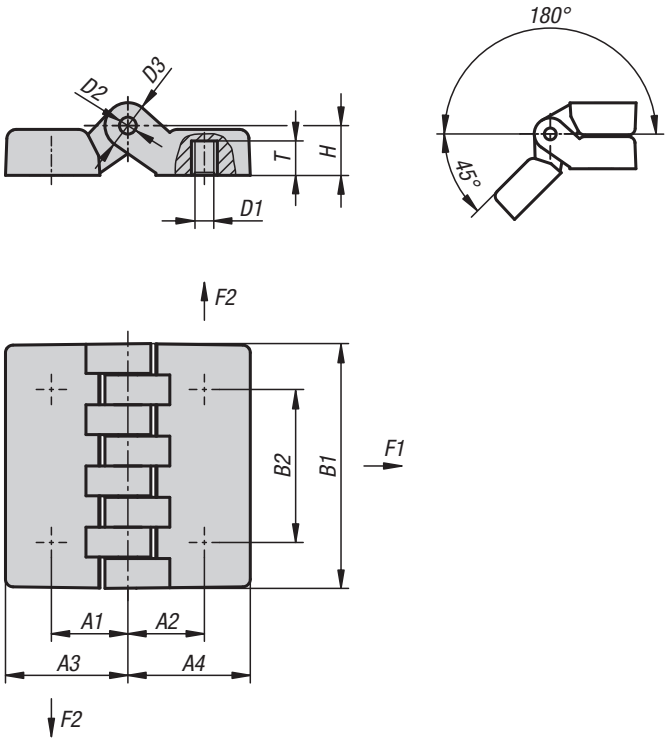
KIPP Plastic hinges with fastening holes

Order No.	A1	A2	A3	A4	B1	B2	D1	D2	D3	H	F1 (N)	F2 (N)
K1004.004161010	10	10	16	16	32	20	4,5	3	7	7	1440	490
K1004.006241515	15	15	24	24	48	30	6,5	5	10	10,5	1960	1470
K1004.006322020	20	20	32	32	64	40	6,5	5	12	13	2850	1520
K1004.008483232	31,5	31,5	48	48	96	60	8,5	8	16	16	4300	1810
K1004.010483232	31,5	31,5	48	48	96	60	10,5	8	16	16	4300	1810

Hinges plastic

with bushing





Material:
Fibreglass reinforced thermoplastic.
Hinge pin steel.
Bushes brass.

Version:
Hinge black.
Hinge pin galvanised.

Sample order:
K1005.05241515

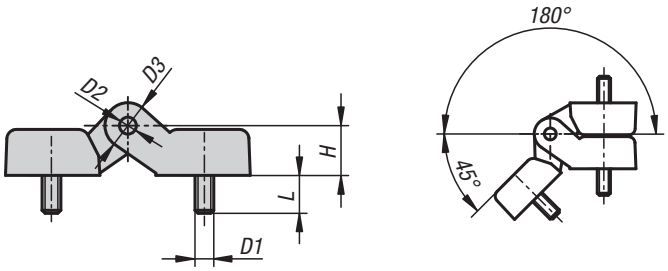
KIPP Hinges, plastic, with bushing

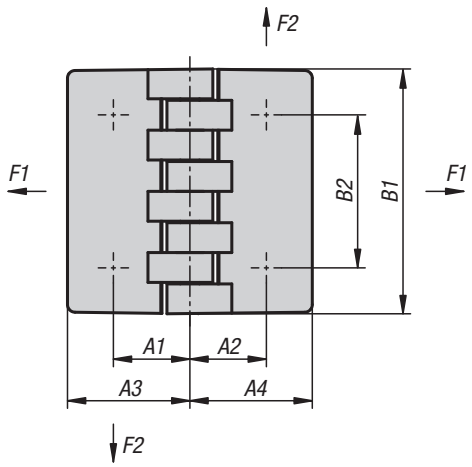
Order No.	A1	A2	A3	A4	B1	B2	D1	D2	D3	H	T	F1 (N)	F2 (N)
K1005.05241515	15	15	24	24	48	30	M5	5	10	10,5	7	2000	1370
K1005.06241515	15	15	24	24	48	30	M6	5	10	10,5	7	2000	1370
K1005.06322020	20	20	32	32	64	40	M6	5	12	13	9	4100	1800
K1005.08322020	20	20	32	32	64	40	M8	5	12	13	9	4100	1800
K1005.08483232	31,5	31,5	47,5	47,5	95	60	M8	8	18	19	13	2450	2650
K1005.10483232	31,5	31,5	47,5	47,5	95	60	M10	8	18	19	13	2450	2650

Hinges plastic

with fastening screws







Material:
Fibreglass reinforced thermoplastic.
Hinge pin steel.

Version:
Hinge black.
Hinge pin galvanised.

Sample order:
K1006.05241515

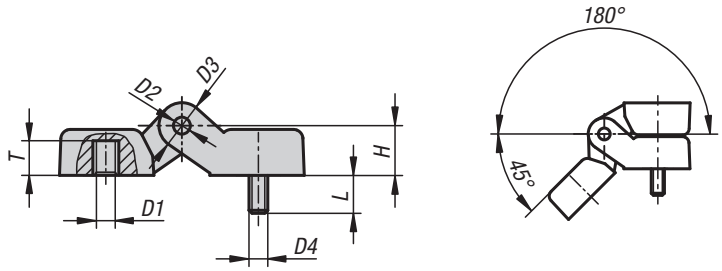
KIPP Hinges, plastic, with fastening screws

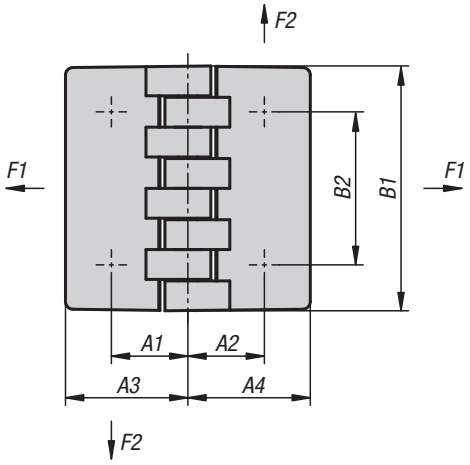
Order No.	A1	A2	A3	A4	B1	B2	D1	D2	D3	H	L	F1 (N)	F2 (N)
K1006.05241515	15	15	24	24	48	30	M5	5	10	10,5	15	1780	1370
K1006.06241515	15	15	24	24	48	30	M6	5	10	10,5	15	1780	1370
K1006.06322020	20	20	32	32	64	40	M6	5	12	13	20	4120	1760
K1006.08322020	20	20	32	32	64	40	M8	5	12	13	20	4120	1760
K1006.08483232	31,5	31,5	47,5	47,5	95	60	M8	8	18	19	20	4900	1275
K1006.10483232	31,5	31,5	47,5	47,5	95	60	M10	8	18	19	20	4900	1275

Hinges plastic

with bushes and fastening screws







Material:
Fibreglass reinforced thermoplastic.
Hinge pin steel.
Bushes brass.

Version:
Hinge black.
Hinge pin galvanised.

Sample order:
K1007.05241515

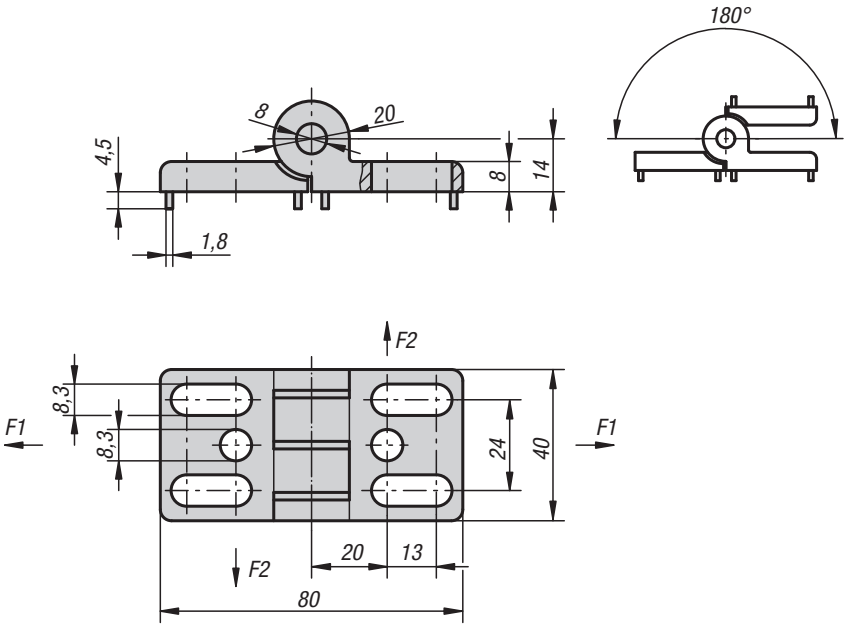
KIPP Hinges plastic with bushes and fastening screws

Order No.	A1	A2	A3	A4	B1	B2	D1	D2	D3	D4	H	L	T	F1 (N)	F2 (N)
K1007.05241515	15	15	24	24	48	30	M5	5	10	M5	10,5	15	7	1850	1350
K1007.06241515	15	15	24	24	48	30	M6	5	10	M6	10,5	15	7	1850	1350
K1007.06322020	20	20	32	32	64	40	M6	5	12	M6	13	20	9	4000	1600
K1007.08322020	20	20	32	32	64	40	M8	5	12	M8	13	20	9	4000	1600
K1007.08483232	31,5	31,5	47,5	47,5	95	60	M8	8	18	M8	19	20	13	3100	1400
K1007.10483232	31,5	31,5	47,5	47,5	95	60	M10	8	18	M10	19	20	13	3100	1400

Hinges

die-cast zinc, with elongated holes





Material:
Die-cast zinc.
Hinge pin stainless steel.
Washer thermoplastic.

Version:
Hinge black powder-coated.
Pin bright.
Washer black.

Sample order:
K0441.402020

Note:
Elongated holes allow easy horizontal adjustment.

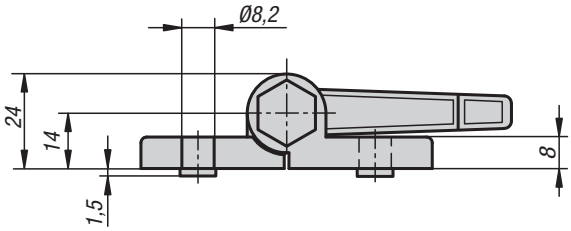
KIPP Hinges die-cast zinc, with elongated holes

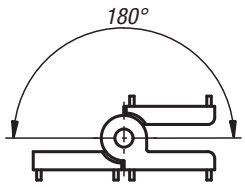
Order No.	Guide tabs for slot	F1 max. kN	F2 max. kN
K0441.402020	-	1,2	0,5
K0441.40202008	8	1,2	0,5
K0441.40202010	10	1,2	0,5

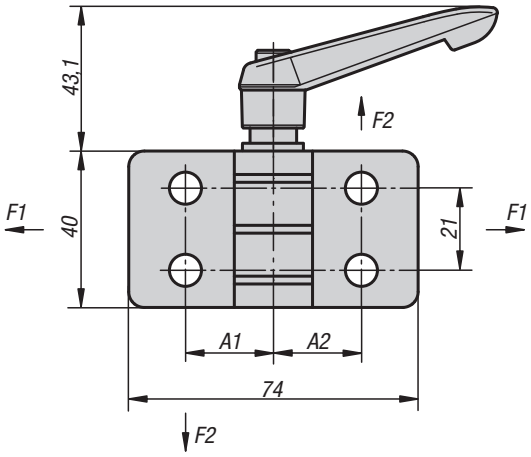
Hinges

die-cast zinc, with locking lever









Material:
Hinge die-cast zinc.
Hinge pin steel.
Lever fibreglass reinforced thermoplastic.
Mechanism steel.

Version:
Hinge black powder-coated.
Pin galvanized.
Lever black.
Mechanism black galvanized.

Sample order:
K0442.40232300

Note:
The indexable lever allows the hinge to be locked in any position.
Available with or without guide tabs for aluminium profile slots.



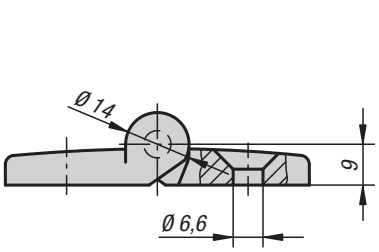
KIPP Hinges die-cast zinc, with locking lever

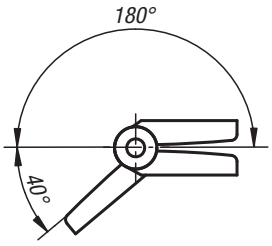
Order No.	A1	A2	Guide tabs for slot	F1 max. kN	F2 max. kN
K0442.40232300	22,5	22,5	-	1,5	0,65
K0442.40232308	22,5	22,5	8	1,5	0,65
K0442.40232310	22,5	22,5	10	1,5	0,65
K0442.40232500	22,5	25	-	1,5	0,65
K0442.40232508	22,5	25	8	1,5	0,65
K0442.40232510	22,5	25	10	1,5	0,65
K0442.45252500	25	25	-	1,5	0,65
K0442.45252508	25	25	8	1,5	0,65
K0442.45252510	25	25	10	1,5	0,65

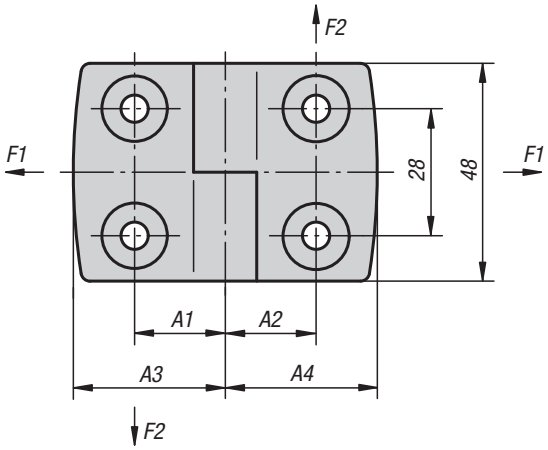
Hinges

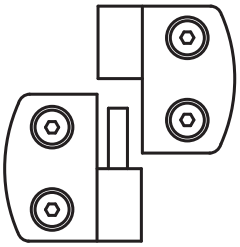
aluminium, lift-off, left











Material:
Die-cast aluminium.
Hinge pin stainless steel.

Version:
Hinge matt nickel-plated.
Pin bright.

Sample order:
K0579.1251515

Note:
Hinges for panel elements and aluminium profiles.
The hinges can be fitted with a plastic spacer ring on the hinge pin.

On request:
Hinges with guide tabs for aluminium profiles (slots 5, 6, 8, 10, 12 and 14).
Unequal leaf combinations.

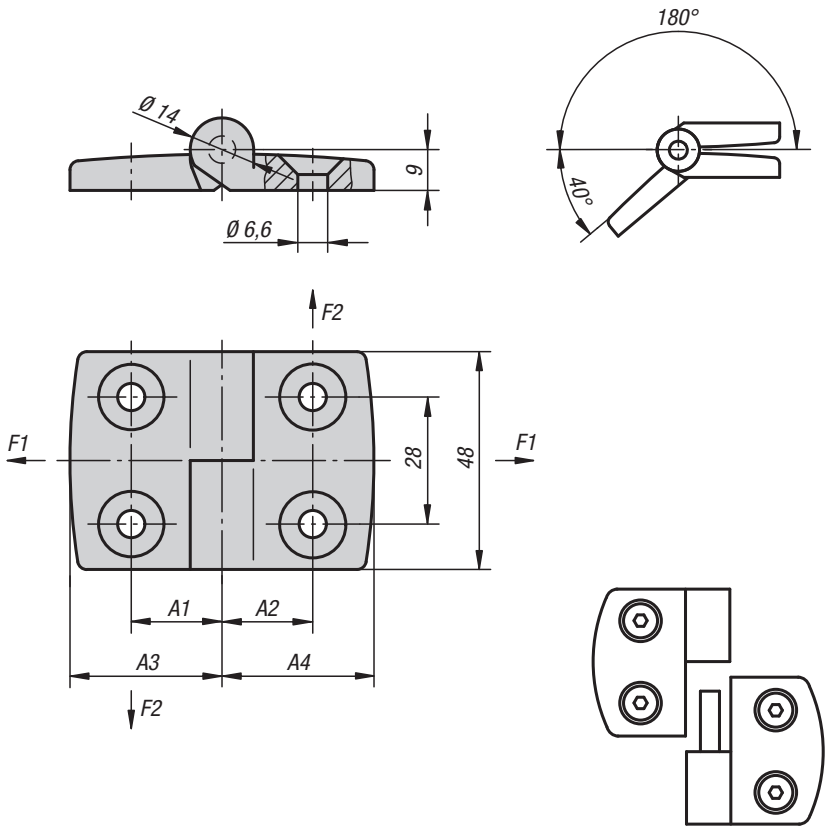
KIPP Hinges aluminium, lift-off, left

Order No.	A1	A2	A3	A4	F1 max. kN	F2 max. kN
K0579.1251515	15	15	26	26	0,41	0,25
K0579.1301818	17,5	17,5	29,5	29,5	0,45	0,28
K0579.1352020	20	20	36	36	0,5	0,25
K0579.1402323	22,5	22,5	38,5	38,5	0,55	0,2
K0579.1452525	25	25	43,5	43,5	0,55	0,2
K0579.1502828	27,5	27,5	48,5	48,5	0,55	0,175
K0579.1603333	32,5	32,5	57,5	57,5	0,575	0,15

Hinges

aluminium, lift-off, right





Material:
Die-cast aluminium.
Hinge pin stainless steel.

Version:
Hinge matt nickel-plated.
Pin bright.

Sample order:
K0579.2251515

Note:
Hinges for panel elements and aluminium profiles.
The hinges can be fitted with a plastic spacer ring on the hinge pin.

On request:
Hinges with guide tabs for aluminium profiles (slots 5, 6, 8, 10, 12 and 14).
Unequal leaf combinations.

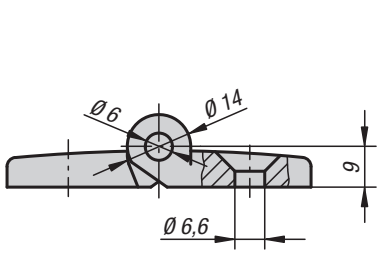
KIPP Hinges aluminium, lift-off, right

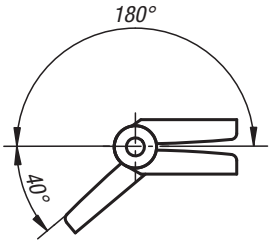
Order No.	A1	A2	A3	A4	F1 max. kN	F2 max. kN
K0579.2251515	15	15	26	26	0,41	0,25
K0579.2301818	17,5	17,5	29,5	29,5	0,45	0,28
K0579.2352020	20	20	36	36	0,5	0,25
K0579.2402323	22,5	22,5	38,5	38,5	0,55	0,2
K0579.2452525	25	25	43,5	43,5	0,55	0,2
K0579.2502828	27,5	27,5	48,5	48,5	0,55	0,175
K0579.2603333	32,5	32,5	57,5	57,5	0,575	0,15

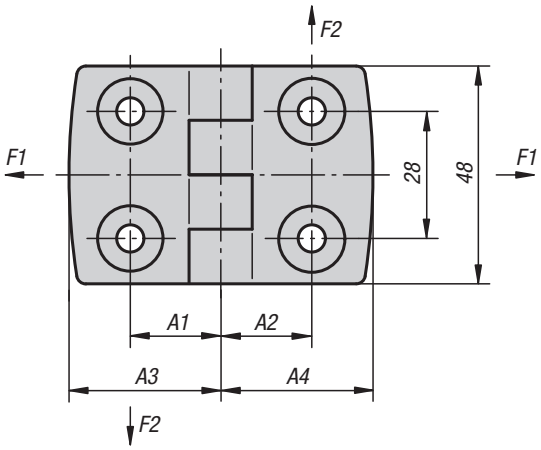
Hinges

aluminium









Material:
Die-cast aluminium.
Hinge pin stainless steel.

Version:
Hinge matt nickel-plated.
Pin bright.

Sample order:
K0580.251515

Note:
Hinges for panel elements and aluminium profiles, non lift-off.
The hinges can be fitted with a plastic spacer on the hinge pin.

On request:
Hinges with guide tabs for aluminium profiles (slots 5, 6, 8, 10, 12 and 14).
Unequal leaf combinations.

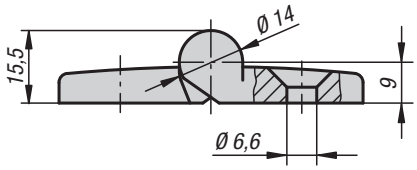
KIPP Hinges aluminium

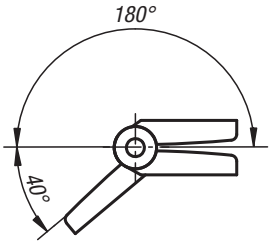
Order No.	A1	A2	A3	A4	F1 max. kN	F2 max. kN
K0580.251515	15	15	26	26	0,275	0,215
K0580.301818	17,5	17,5	29,5	29,5	0,325	0,225
K0580.352020	20	20	36	36	0,325	0,225
K0580.402323	22,5	22,5	38,5	38,5	0,4	0,25
K0580.452525	25	25	43,5	43,5	0,4	0,25
K0580.502828	27,5	27,5	48,5	48,5	0,4	0,25
K0580.603333	32,5	32,5	57,5	57,5	0,4	0,1

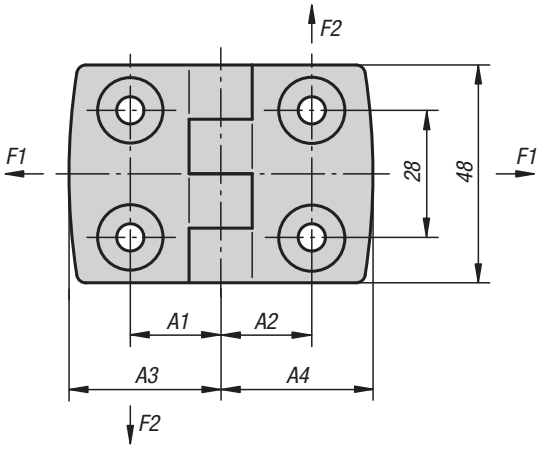
Hinges

stainless steel









Material:
Stainless steel 1.4401.

Version:
Polished.

Sample order:
K1084.062615151

Note:
Hinges for panel elements and aluminium profiles.

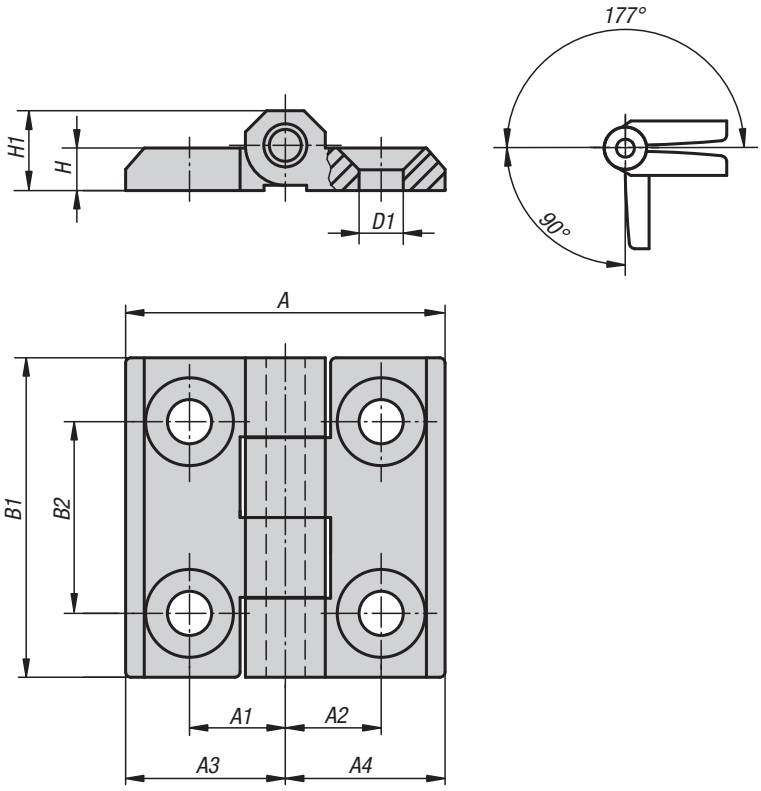
KIPP Hinges stainless steel

Order No.	A1	A2	A3	A4	F1 max. kN	F2 max. kN
K1084.062615151	15	15	26	26	0,7	0,560
K1084.063018181	17,5	17,5	29,5	29,5	0,8	0,575
K1084.064023231	22,5	22,5	38,5	38,5	0,9	0,675
K1084.064525251	25	25	42,5	42,5	0,9	0,675
K1084.066033331	32,5	32,5	56,5	56,5	0,9	0,260

Hinges

stainless steel





Material:
Stainless steel 1.4401.

Version:
Polished or blasted.

Sample order:
K1085.052013131

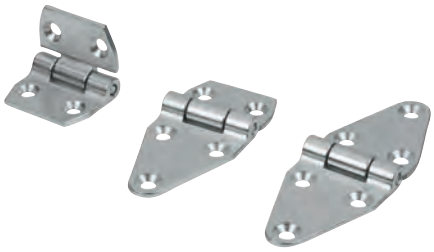
Note:
Hinges with fixed pin and countersunk holes.

KIPP Hinges, stainless steel

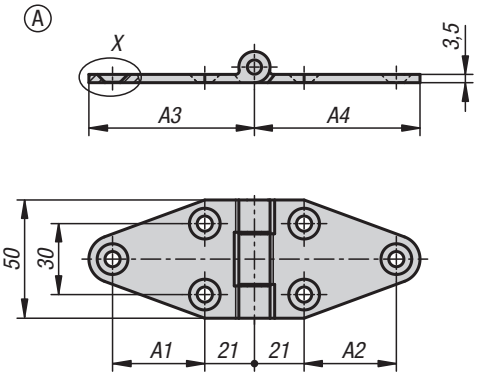
Order No.	Version	A	A1	A2	A3	A4	B1	B2	D1	H	H1
K1085.052013130	polished	39	12,5	12,5	19,5	19,5	39	25	5,5	4	9
K1085.052013131	blasted	39	12,5	12,5	19,5	19,5	39	25	5,5	4	9
K1085.062515150	polished	50	15	15	25	25	50	30	6,5	6	12
K1085.062515151	blasted	50	15	15	25	25	50	30	6,5	6	12
K1085.083018180	polished	60	18	18	30	30	60	36	8,5	8	15
K1085.083018181	blasted	60	18	18	30	30	60	36	8,5	8	15

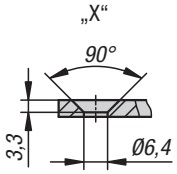
Hinges steel

maintenance-free

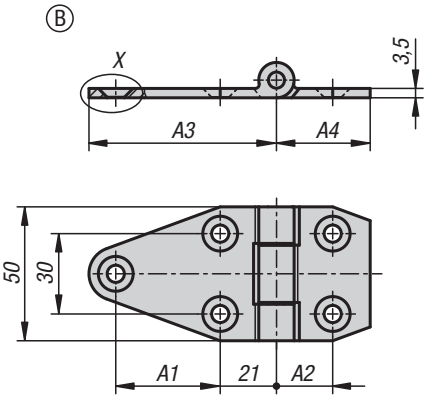


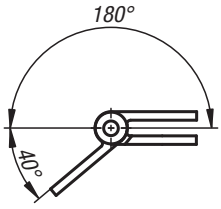
Ⓐ



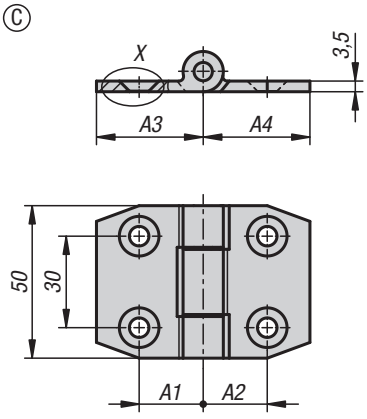


Ⓑ





Ⓒ



Material:
Profile steel.
Bush Metaloplast.

Version:
Steel parts galvanised.

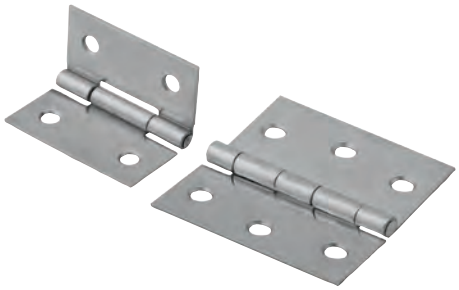
Sample order:
K1141.06707050

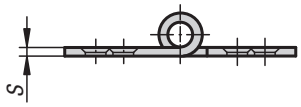
KIPP Hinges steel, maintenance-free

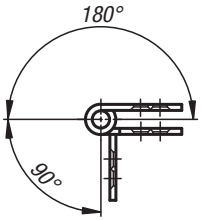
Order No.	Form	A1	A2	A3	A4
K1141.06707050	A	39	39	70	70
K1141.06703550	B	39	21	70	35
K1141.06353550	C	21	21	35	35

Hinges

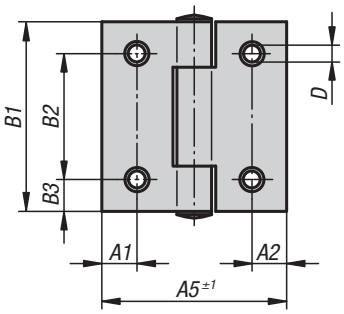
steel or stainless steel plate



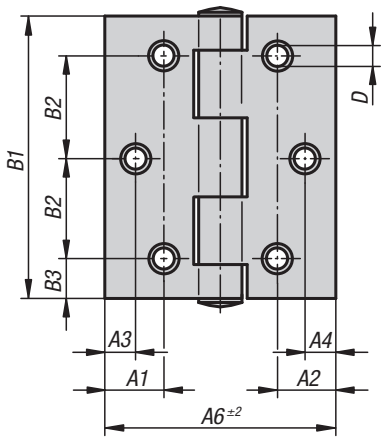




1:



2:



Material:
Steel or stainless steel 1.4301.

Version:
Steel galvanized.
Stainless steel bright.

Sample order:
K1082.04201212

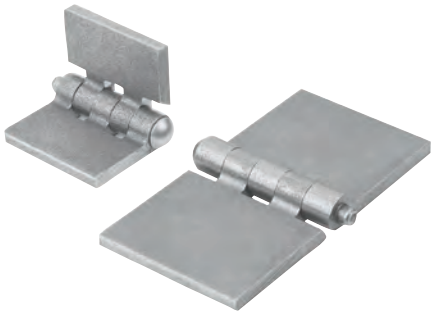
Note:
Rolled plate butt hinges.
Pins are riveted.
Screw holes countersunk.

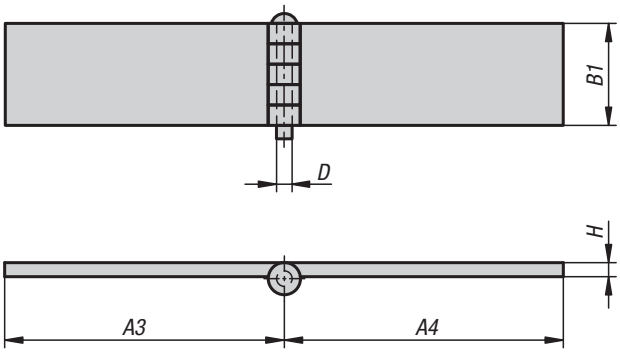
KIPP Hinges, steel or stainless steel plate

Order No.	Material	Version	A1	A2	A3	A4	A5	A6	B1	B2	B3	D	S
K1082.04201212	steel	1	8,5	8,5	-	-	40	-	40	25	7,5	4	1
K1082.04301515	steel	2	15	15	8	8	-	60	60	22,5	7,5	4,5	1,5
K1082.104201212	stainless steel	1	8,5	8,5	-	-	40	-	40	25	7,5	4	1
K1082.104251414	stainless steel	2	11	11	8	8	-	50	50	18	7	4,5	1,25
K1082.104301515	stainless steel	2	15	15	8	8	-	60	60	22,5	7,5	4,5	1,5
K1082.105401515	stainless steel	2	25,3	25,3	12	12	-	80	80	30	10	5,2	1,5

Hinges

weldable





Material:
Steel.

Version:
Bright.

Sample order:
K1140.04030040

Note:
The hinges are made of weldable profile steel.

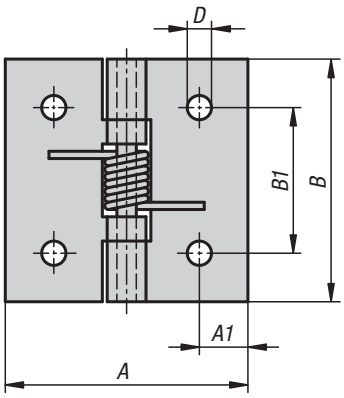
KIPP Weldable hinges

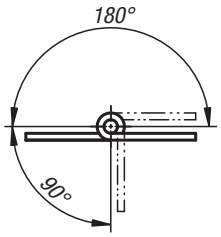
Order No.	A3	A4	B1	D	H
K1140.04030040	40	40	30	4	3
K1140.04040040	40	40	40	4	3
K1140.06040030	30	30	40	6	5
K1140.06040060	60	60	40	6	5
K1140.06050060	60	60	50	6	5
K1140.06060060	60	60	60	6	5
K1140.08060080	80	80	60	8	6

Spring hinges

steel or stainless steel, 50 mm







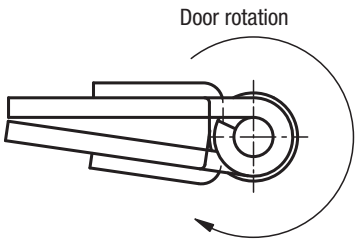
Material:
Steel or 1.4301 stainless steel.
Tension spring stainless steel.

Version:
Steel galvanized.
Stainless steel bright.

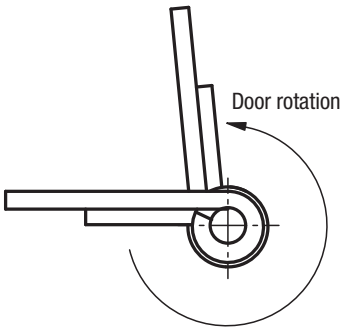
Sample order:
K1173.50500

Note:
Butt type hinges.
Opening angle 270°.

Spring torque opening:
M(0°): 1.5 Nm / M(90°): 1.1 Nm / M(180°): 0.65 Nm
Spring torque closing:
M(0°): 0.25 Nm / M(90°): 0.65 Nm / M(180°): 1.1 Nm



Hinges with closing spring



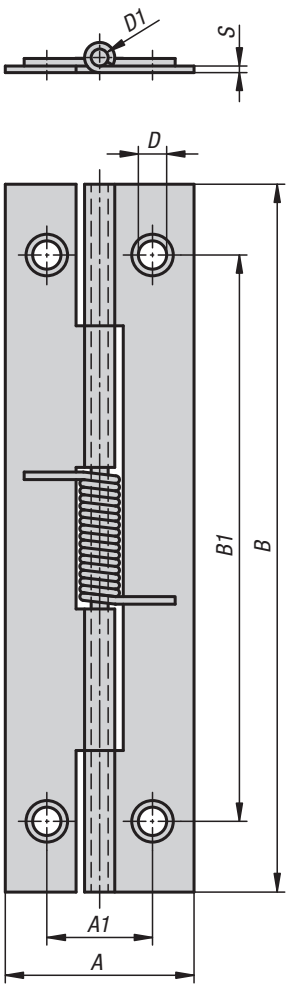
Hinges with opening spring

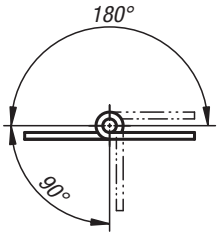
KIPP Spring hinges steel or stainless steel, 50 mm

Order No.	Version	Main material	A	A1	B	B1	D	D1	S
K1173.50500	spring open	steel	50	9	50	30	5	4	2
K1173.150500	spring open	stainless steel	50	10	50	30	5	4	2
K1173.50501	spring closed	steel	50	9	50	30	5	4	2
K1173.150501	spring closed	stainless steel	50	10	50	30	5	4	2

Spring hinges

steel or stainless steel, 75 mm







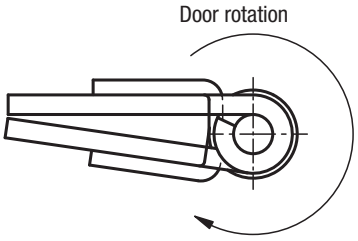
Material:
Steel or 1.4301 stainless steel.
Tension spring stainless steel.

Version:
Bright.

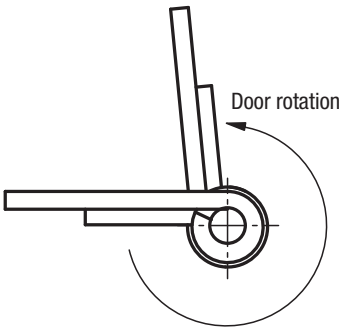
Sample order:
K1174.20750

Note:
Butt type hinges.
Opening angle 270°.

Spring torque:
M(0°): 0.12 Nm / M(90°): 0.09 Nm / M(180°): 0.06 Nm



Hinges with closing spring



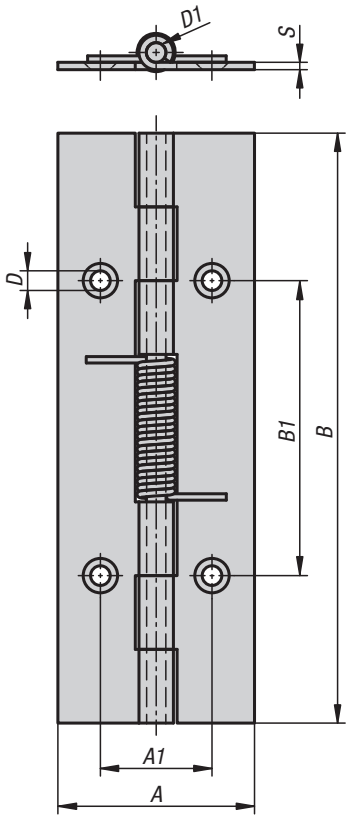
Hinges with opening spring

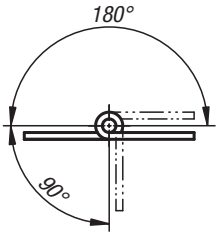
KIPP Spring hinges steel or stainless steel, 75 mm

Order No.	Main material	A	A1	B	B1	D	D1	S
K1174.20750	steel	20	11,2	75	60	2,8	1,8	0,8
K1174.120750	stainless steel	20	11,2	75	60	2,8	1,8	0,8

Spring hinges

steel or stainless steel, 120 mm







Material:
Steel or 1.4301 stainless steel.
Tension spring stainless steel.

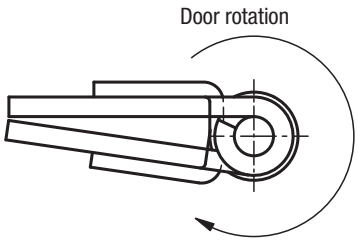
Version:
Steel bright or galvanised.
Stainless steel bright.

Sample order:
K1175.4012000

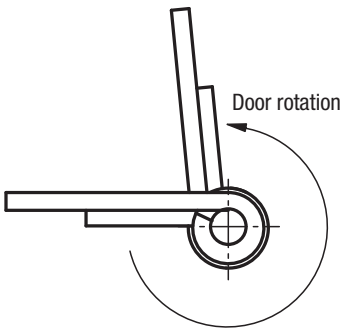
Note:
Butt type hinges.
Opening angle 270°.

Spring torque opening:
M(0°): 0.85 Nm / M(90°): 0.56 Nm / M(180°): 0.28 Nm
Spring torque closing:
M(0°): 0.28 Nm / M(90°): 0.56 Nm / M(180°): 0.85 Nm

Form A: without holes
Form B: with holes



Hinges with closing spring



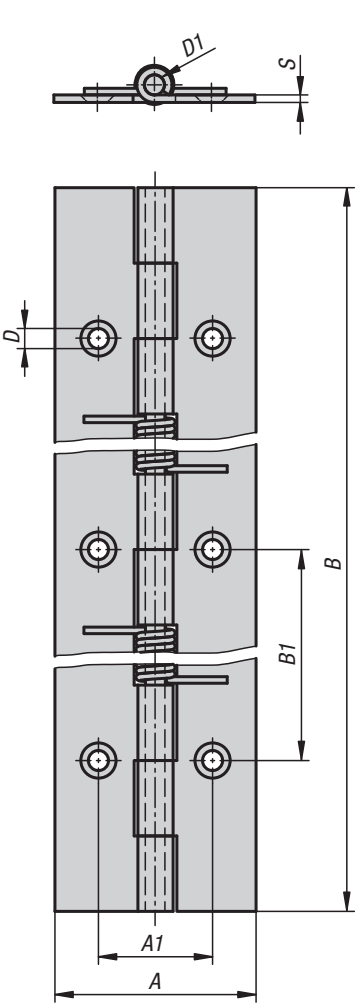
Hinges with opening spring

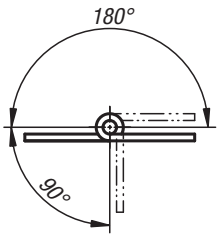
KIPP Spring hinges steel or stainless steel, 120 mm

Order No.	Form	Version	Main material	Surface	A	A1	B	B1	D	D1	S
K1175.4012000	A	spring open	steel	bright	40	-	120	-	-	4	1,5
K1175.4012001	B	spring open	steel	galvanized	40	22,7	120	60	4	4	1,5
K1175.14012000	A	spring open	stainless steel	bright	40	-	120	-	-	4	1,5
K1175.14012001	B	spring open	stainless steel	bright	40	22,7	120	60	4	4	1,5
K1175.4012010	A	spring closed	steel	bright	40	-	120	-	-	4	1,5
K1175.4012011	B	spring closed	steel	galvanized	40	22,7	120	60	4	4	1,5
K1175.14012010	A	spring closed	stainless steel	bright	40	-	120	-	-	4	1,5
K1175.14012011	B	spring closed	stainless steel	bright	40	22,7	120	60	4	4	1,5

Spring hinges

steel or stainless steel, 180 mm







Material:
Steel or 1.4301 stainless steel.
Tension spring stainless steel.

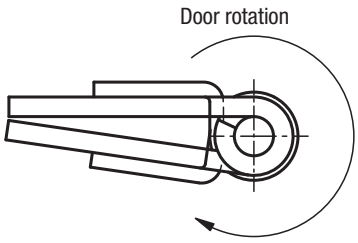
Version:
Steel bright or galvanised.
Stainless steel bright.

Sample order:
K1176.4018000

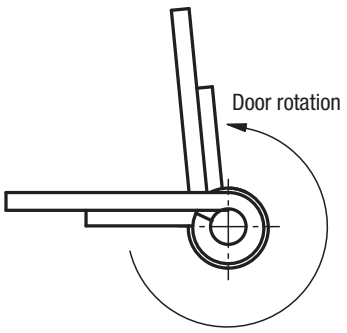
Note:
Butt type hinges.
Opening angle 270°.

Spring torque opening:
M(0°): 1.7 Nm / M(90°): 1.1 Nm / M(180°): 0.56 Nm
Spring torque closing:
M(0°): 0.56 Nm / M(90°): 1.1 Nm / M(180°): 1.7 Nm

Form A: without holes
Form B: with holes



Hinges with closing spring



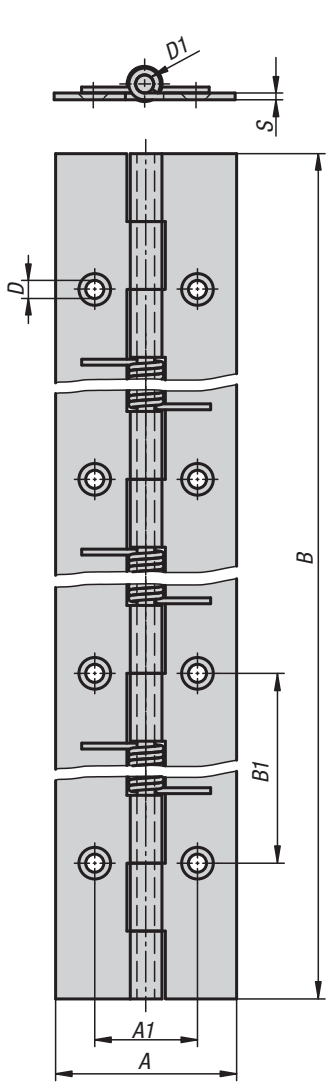
Hinges with opening spring

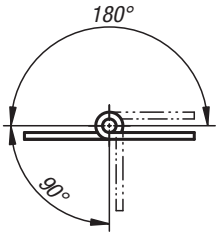
KIPP Spring hinges steel or stainless steel, 180 mm

Order No.	Form	Version	Main material	Surface	A	A1	B	B1	D	D1	S
K1176.4018000	A	spring open	steel	bright	40	-	180	-	-	4	1,5
K1176.4018001	B	spring open	steel	galvanized	40	22,7	180	60	4	4	1,5
K1176.14018000	A	spring open	stainless steel	bright	40	-	180	-	-	4	1,5
K1176.14018001	B	spring open	stainless steel	bright	40	22,7	180	60	4	4	1,5
K1176.4018010	A	spring closed	steel	bright	40	-	180	-	-	4	1,5
K1176.4018011	B	spring closed	steel	galvanized	40	22,7	180	60	4	4	1,5
K1176.14018010	A	spring closed	stainless steel	bright	40	-	180	-	-	4	1,5
K1176.14018011	B	spring closed	stainless steel	bright	40	22,7	180	60	4	4	1,5

Spring hinges

steel or stainless steel, 240 mm







Material:
Steel or 1.4301 stainless steel.
Tension spring stainless steel.

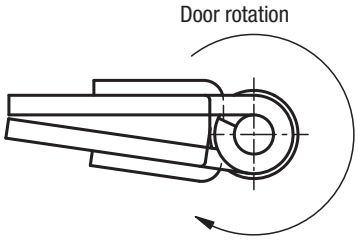
Version:
Steel bright or galvanised.
Stainless steel bright.

Sample order:
K1177.4024000

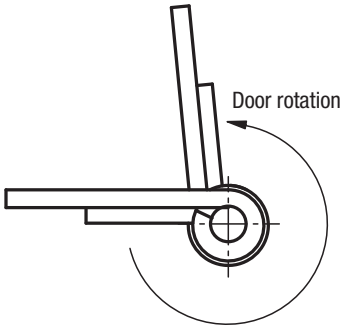
Note:
Butt type hinges.
Opening angle 270°.

Spring torque opening:
M(0°): 2.55 Nm / M(90°): 1.68 Nm / M(180°): 0.84 Nm
Spring torque closing:
M(0°): 0.84 Nm / M(90°): 1.68 Nm / M(180°): 2.55 Nm

Form A: without holes
Form B: with holes



Hinges with closing spring



Hinges with opening spring

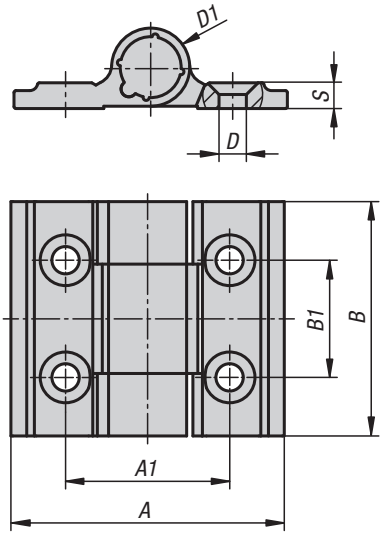
KIPP Spring hinges steel or stainless steel, 240 mm

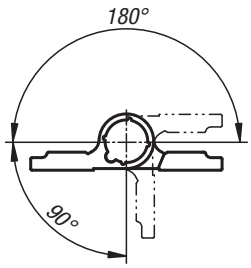
Order No.	Form	Version	Main material	Surface	A	A1	B	B1	D	D1	S
K1177.4024000	A	spring open	steel	bright	40	-	240	-	-	4	1,5
K1177.4024001	B	spring open	steel	galvanized	40	22,7	240	60	4	4	1,5
K1177.14024000	A	spring open	stainless steel	bright	40	-	240	-	-	4	1,5
K1177.14024001	B	spring open	stainless steel	bright	40	22,7	240	60	4	4	1,5
K1177.4024010	A	spring closed	steel	bright	40	-	240	-	-	4	1,5
K1177.4024011	B	spring closed	steel	galvanized	40	22,7	240	60	4	4	1,5
K1177.14024010	A	spring closed	stainless steel	bright	40	-	240	-	-	4	1,5
K1177.14024011	B	spring closed	stainless steel	bright	40	22,7	240	60	4	4	1,5

Spring hinges

aluminium profile, 0.2 Nm







Material:
Aluminium 6060 T5.
Cover plug PA 6.6.

Version:
Black anodized

Sample order:
K1178.353001

Note:
These hinges have stainless steel tension springs which enables doors and hatches to open or close automatically. Opening angle 270°.

Spring torque opening:
M(0°): 0.20 Nm / M(90°): 0.12 Nm / M(180°): 0.07 Nm
Spring torque closing:
M(0°): 0.20 Nm / M(90°): 0.12 Nm / M(180°): 0.07 Nm

Fastened with DIN 7991 countersunk screws.

Temperature range:
From -20°C to +80°C

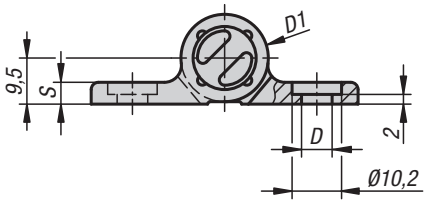
KIPP Spring hinges aluminium profile, 0.2 Nm

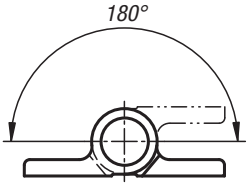
Order No.	Version	A	A1	B	B1	D	D1	S
K1178.353001	spring open	35	21	30	15	3,5	10	3,3
K1178.353011	spring closed	35	21	30	15	3,5	10	3,3

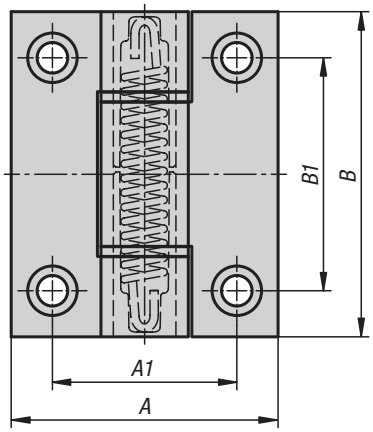
Spring hinges

aluminium profile, 0.35 Nm









Material:
Aluminium 6060 T5.
End caps PA 6.6.
Washers POM.

Version:
Black anodized

Sample order:
K1179.556701

Note:
These hinges have steel tension springs which enables doors and hatches to open or close automatically. Opening angle 180°.

Spring torque opening:
M(0°): 0.35 Nm / M(90°): 0.24 Nm / M(180°): 0.12 Nm

These hinges have a more than 30000 cycle service life.

Fastened using DIN 912/EN ISO 4762 socket head screws.

Temperature range:
From -20°C to +80°C

Accessories:
Socket head screws with hexagon socket DIN 912/EN ISO 4762

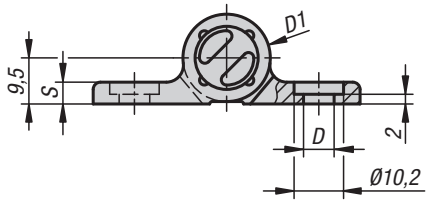
KIPP Spring hinges aluminium profile, 0.35 Nm

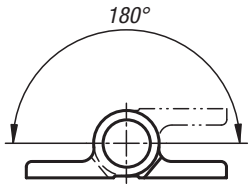
Order No.	Version	A	A1	B	B1	D	D1	S
K1179.556701	spring open	55	38	67	48	6,3	18	4,5

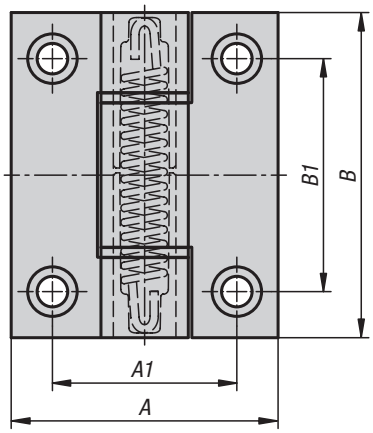
Spring hinges

aluminium profile, 0.7 Nm









Material:
Aluminium 6060 T5.
End caps PA 6.6.
Washers POM.

Version:
Black anodized

Sample order:
K1180.556701

Note:
These hinges have steel tension springs which enables doors and hatches to open or close automatically.
Opening angle 180°.

Spring torque opening:
M(0°): 0.7 Nm / M(90°): 0.45 Nm / M(180°): 0.23 Nm
Spring torque closing:
M(0°): 0.7 Nm / M(90°): 0.45 Nm / M(180°): 0.23 Nm

These hinges have a more than 30000 cycle service life.

Fastened using DIN 912/EN ISO 4762 socket head screws.

Temperature range:
From -20°C to +80°C

Accessories:
Socket head screws with hexagon socket DIN 912/EN ISO 4762

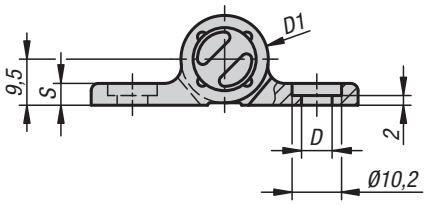
KIPP Spring hinges aluminium profile, 0.7 Nm

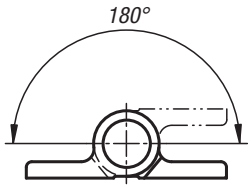
Order No.	Version	A	A1	B	B1	D	D1	S
K1180.556701	spring open	55	38	67	48	6,3	18	4,5
K1180.556711	spring closed	55	38	67	48	6,3	18	4,5

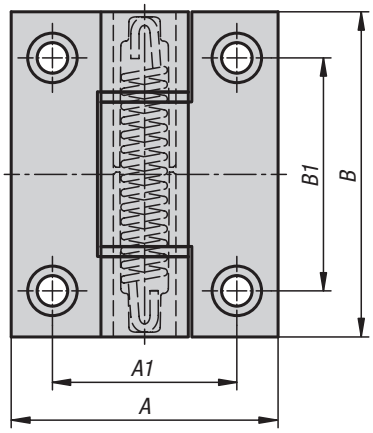
Spring hinges

aluminium profile, 1.3 Nm









Material:
Aluminium 6060 T5.
End caps PA 6.6.
Washers POM.

Version:
Black anodized

Sample order:
K1181.556701

Note:
These hinges have steel tension springs which enables doors and hatches to open or close automatically.
Opening angle 180°.

Spring torque opening:
M(0°): 1.3 Nm / M(90°): 1.1 Nm / M(180°): 0.9 Nm
Spring torque closing:
M(0°): 0.5 Nm / M(90°): 0.7 Nm / M(180°): 1 Nm

These hinges have a more than 10000 cycle service life.

Fastened using DIN 912/EN ISO 4762 socket head screws.

Temperature range:
From -20°C to +80°C

Accessories:
Socket head screws with hexagon socket DIN 912/EN ISO 4762

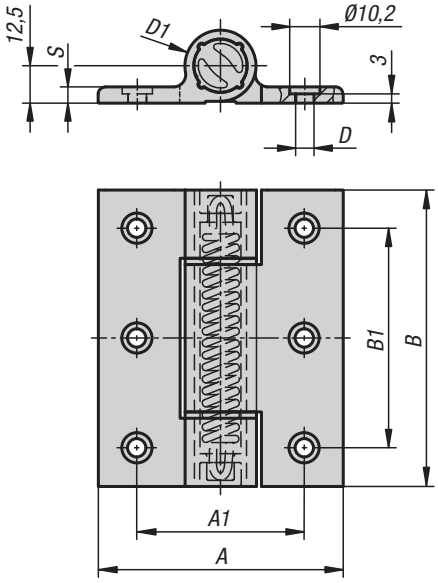
KIPP Spring hinges aluminium profile, 1.3 Nm

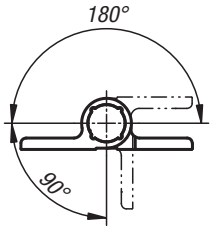
Order No.	Version	A	A1	B	B1	D	D1	S
K1181.556701	spring open	55	38	67	48	6,3	18	4,5
K1181.556711	spring closed	55	38	67	48	6,3	18	4,5

Spring hinges

aluminium profile, 3.8 Nm







Material:
Aluminium 6060 T5.
End caps PA 6.6.
Washers POM.

Version:
Black anodized

Sample order:
K1182.8210001

Note:
These hinges have steel tension springs which enables doors and hatches to open or close automatically.
Opening angle 270°.

Spring torque opening:
M(0°): 3.80 Nm / M(90°): 3.10 Nm / M(180°): 2.40 Nm
Spring torque closing:
M(0°): 2.20 Nm / M(90°): 2.90 Nm / M(180°): 3.50 Nm

Fastened using DIN 912/EN ISO 4762 socket head screws.

Temperature range:
From -20°C to +80°C

Accessories:
Socket head screws with hexagon socket DIN 912/EN ISO 4762

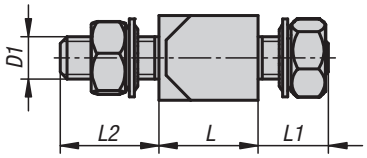
KIPP Spring hinges aluminium profile, 3.8 Nm

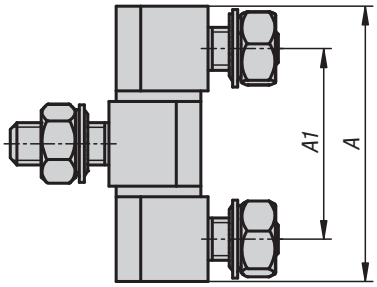
Order No.	Version	A	A1	B	B1	D	D1	S
K1182.8210001	spring open	82,5	56,5	100	74	6,2	24	5,5
K1182.8210011	spring closed	82,5	56,5	100	74	6,2	24	5,5

Block hinges

with fastening nuts







Material:
Steel.
Stainless steel 1.4305.
Stainless steel A4 1.4401.

Version:
Steel galvanized.
Stainless steel bright.

Sample order:
K1142.0614027

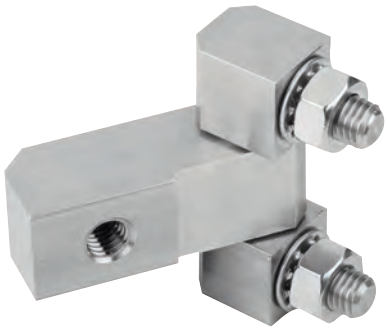
Note:
Block hinges with fastening nuts for overlapping or inset doors.
Mounted with nuts (M6 or M8) from inside. The 3-part versions are not detachable.
The hinge can be used left or right. The opening angle is 180°. Supplied unassembled.
Fastening nuts and washers are supplied.

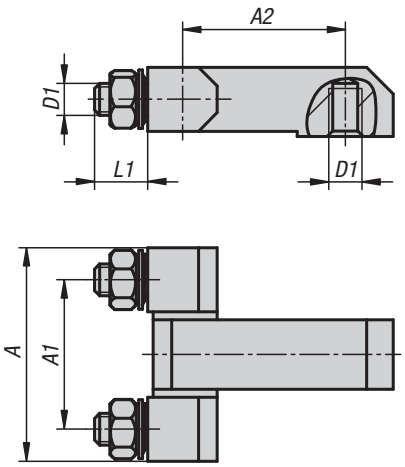
KIPP Block hinges with fastening nuts

Order No.	Main material	Steel code	A	A1	D1	L	L1 Length	L2
K1142.0614027	steel	-	39	27	M6	13	10	14
K1142.0820033	steel	-	49	33	M8	18	14	22
K1142.10614027	stainless steel	1.4305	39	27	M6	13	10	14
K1142.10820033	stainless steel	1.4305	49	33	M8	18	14	22
K1142.20614027	stainless steel	1.4401	39	27	M6	13	10	14
K1142.20820033	stainless steel	1.4401	49	33	M8	18	14	22

Block hinges

with fastening nuts, long version





Material:
Steel.
Stainless steel 1.4305.
Stainless steel A4 1.4401.

Version:
Steel galvanized.
Stainless steel bright.

Sample order:
K1143.0630028

Note:
Block hinges with fastening nuts and extended middle section for inset doors.
Mounted with nuts (M6 or M8) from inside.
The hinge can be mounted left or right. The opening angle is 180°.
Supplied unassembled. Fastening nuts and washers are supplied.

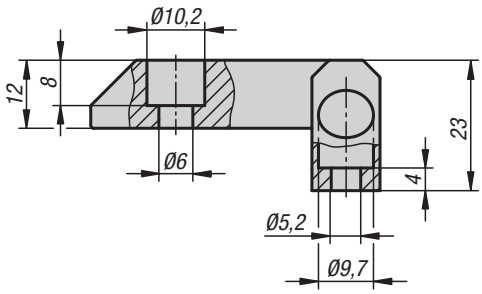
KIPP Block hinges with fastening nuts, long version

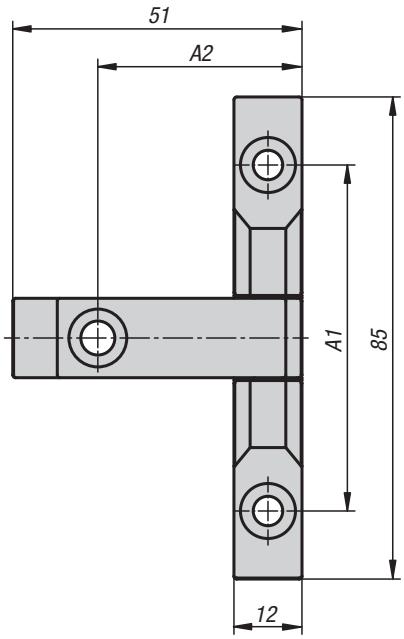
Order No.	Main material	Steel code	A	A1	A2	D1	L1 Length
K1143.0630028	steel	-	40	28	30	M6	10
K1143.0829035	steel	-	51	35	29	M8	14
K1143.10630028	stainless steel	1.4305	40	28	30	M6	10
K1143.10829035	stainless steel	1.4305	51	35	29	M8	14
K1143.20630028	stainless steel	1.4401	40	28	30	M6	10
K1143.20829035	stainless steel	1.4401	51	35	29	M8	14

Block hinges

with counterbore, long version







Material:
Steel.

Version:
Steel galvanised or high-gloss chromed.

Sample order:
K1144.00630061

Note:
Block hinges for overlapping doors. Can be mounted left or right. Opening angle 180°. The hinges are supplied assembled.

KIPP Block hinges with counterbore, long version

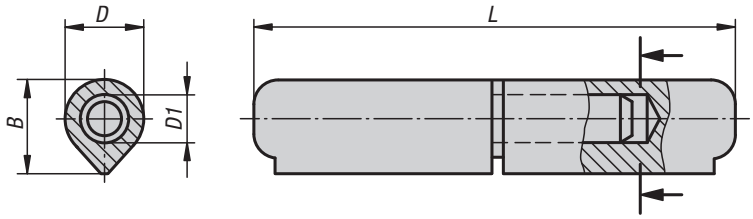
Order No.	Surface	A1	A2
K1144.00630061	galvanized	61	30
K1144.10630061	high-gloss chromed	61	30

Hinges weldable

stainless steel







Material:
Stainless steel 1.4301.

Version:
Bright.

Sample order:
K0985.013080033

Note:
The hinges are made of weldable profile steel.
The pin is fixed into the lower part of the hinge.
The differing steel qualities of the weld and the beam onto which the hinge is welded must be at least equal to or better than:
S235 JR+AR acc. to EN 10025-2:2004-10
DIN 8563 part 3 or Fe E 235 acc. to SIA 161



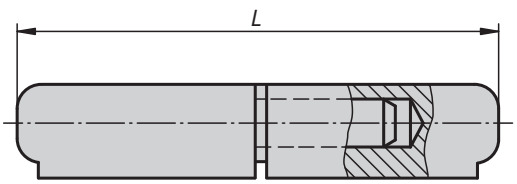
KIPP Hinges weldable, stainless steel

Order No.	D	D1	B	L
K0985.010060033	10	6	12	60
K0985.013080033	13	8	15,5	80
K0985.016100033	16	10	20	100
K0985.016120033	16	11	20	120
K0985.020150033	20	13	25,5	150
K0985.020180033	20	14	25,5	180

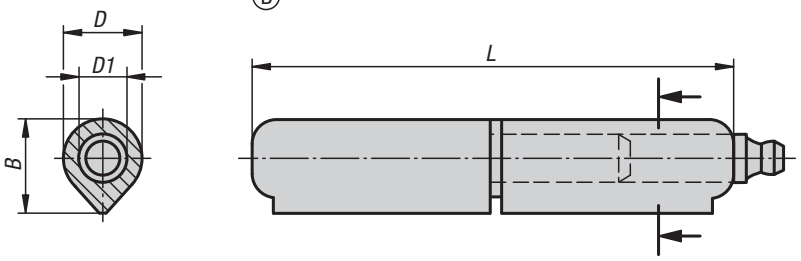
Hinges weldable



Ⓐ



Ⓑ



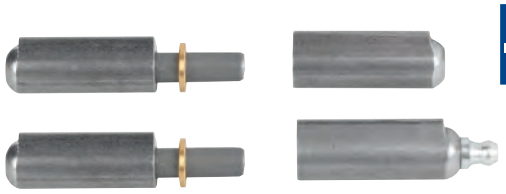
Material:
Hinge steel.
Spacer washer brass.
Hinge pin steel or brass.

Version:
Grease nipple DIN 71412-D, galvanized steel.
Steel parts, bright.

Sample order:
K0984.011070012

Note:
The hinges are made of weldable profile steel.
The pin is fixed into the lower part of the hinge.
The differing steel qualities of the weld and the beam onto which the hinge is welded must be at least equal to or better than:
S235 JR+AR acc. to EN 10025-2:2004-10
DIN 8563 part 3 or Fe E 235 acc. to SIA 161

Hinges weldable



KIPP Hinges weldable

Order No.	Form	Component material	D	D1	L	B
K0984.008040012	A	Steel	8	5	40	9,7
K0984.008050012	A	Steel	8	5	50	9,7
K0984.010060012	A	Steel	10	6	60	12,7
K0984.010070012	A	Steel	10	6	70	12
K0984.013080012	A	Steel	13	8	80	15,5
K0984.016100012	A	Steel	16	10	100	20
K0984.016120012	A	Steel	16	11	120	20
K0984.018135012	A	Steel	18	12	135	22
K0984.020150012	A	Steel	20	13	150	25
K0984.020180012	A	Steel	20	14	180	25
K0984.023200012	A	Steel	23	16	200	28,5
K0984.008040022	A	Brass	8	5	40	9,7
K0984.008050022	A	Brass	8	5	50	9,7
K0984.010060022	A	Brass	10	6	60	12,7
K0984.010070022	A	Brass	10	6	70	12
K0984.013080022	A	Brass	13	8	80	15,5
K0984.016100022	A	Brass	16	10	100	20
K0984.016120022	A	Brass	16	11	120	20
K0984.018135022	A	Brass	18	12	135	22
K0984.020150022	A	Brass	20	13	150	25
K0984.020180022	A	Brass	20	14	180	25
K0984.023200022	A	Brass	23	16	200	28,5
K0984.113080012	B	Steel	13	8	80	16
K0984.116100012	B	Steel	16	10	100	20
K0984.116120012	B	Steel	16	10	120	20
K0984.118135012	B	Steel	18	12	135	22,5
K0984.120150012	B	Steel	20	13	150	25,5
K0984.120180012	B	Steel	20	14	180	25
K0984.123200012	B	Steel	23	16	200	29

Swivel feet, levelling feet

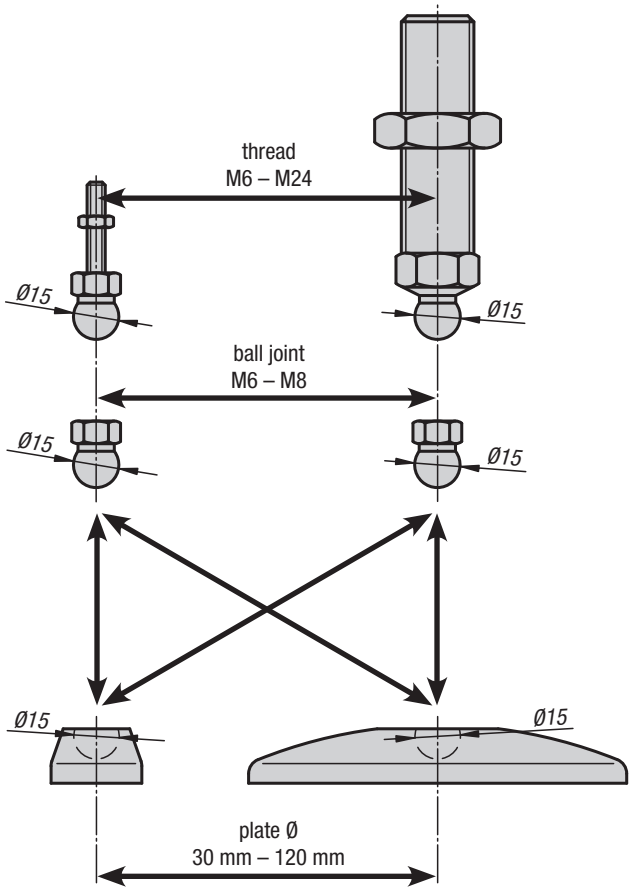


Modular structure of a swivel foot

Application:
Swivel feet are of modular design. The components can be individually combined to match the application. The swivel feet are applicable for use on machines, plants and even office furniture.

Modular design:
Swivel feet consist of two components - a plate and a threaded spindle or ball joint. **Any** plate can be combined with **any** threaded spindle or ball joint (see Fig. 1).

Fig. 1

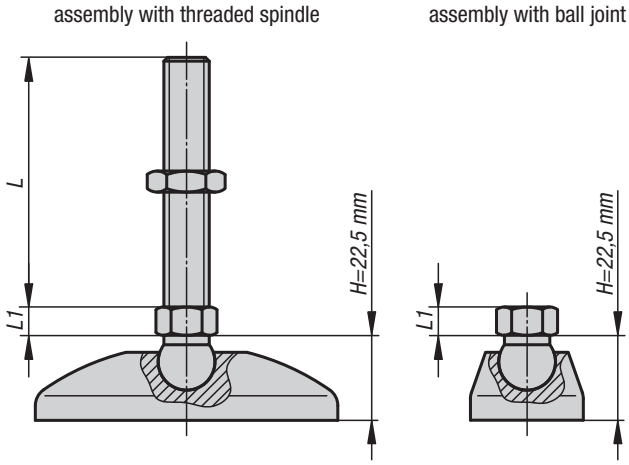


Assembly:
Using a plastic hammer, knock the ball of the threaded spindle or ball joint vertically into the swivel foot plate. If necessary, the two fastening holes (closed) in the swivel foot plate can be opened by simply punching them out to allow the swivel foot to be fastened to a base.

Height of swivel foot:
Swivel feet always have a minimum height of H = 22.5 mm independently of the plate, threaded spindle or ball joint size (see Fig. 2). When assembling with threaded spindle, the height of the complete swivel foot is calculated by adding 22.5 mm to the length of the threaded spindle + the height of the hexagon. (Total height of swivel foot = L + L1 + 22.5 mm).

When assembling with ball joint, the length L is void.

Fig. 2



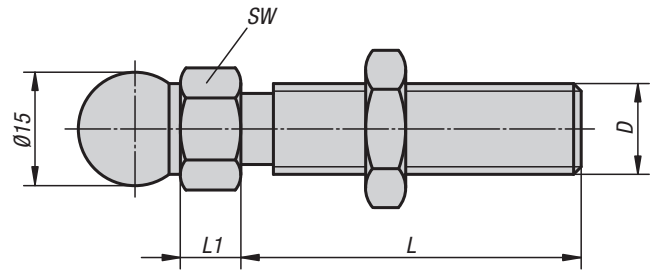
Inclination angle of threaded spindle or ball joint:



Note for ordering:
If the swivel foot plate and the threaded spindle or ball joint are to be supplied assembled, please add the suffix **"assembled"** to the order number for the plate and the spindle or ball joint (see sample order on the relevant product page).

Swivel feet threaded spindles

steel or stainless steel





Material:
Steel or stainless steel 1.4301.

Version:
Steel blue passivated.
Stainless steel, bright.

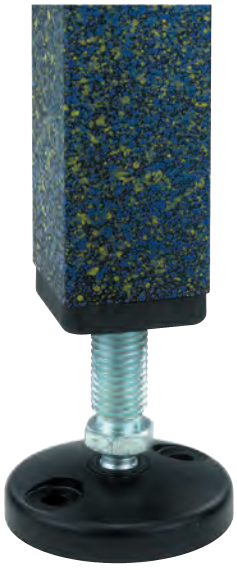
Sample order:
K0421.060151
K0421.060151 and K0415.1030 **assembled**

Note for ordering:
If the threaded spindle and the plate are to be supplied assembled, please add the suffix **"assembled"** to the order number for the spindle and plate.
(e.g. K0421.060151 and K0415.1030 **assembled**.)

Note:
Swivel feet consist of a plate and a threaded spindle. Any plate can be combined with any threaded spindle. The height of the complete swivel foot is calculated by the length of the threaded spindle + height of hexagon + 22.5 mm. (Overall height of swivel foot = L + L1 + 22.5 mm).

KIPP Swivel feet threaded spindles

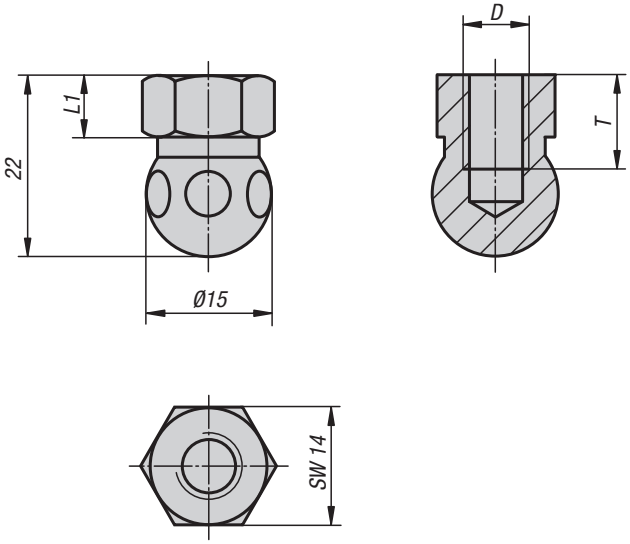
Order No. Steel	Order No. Stainless steel	D	L	L1	SW	Load rating max. kN
K0421.060151	K0421.060152	M6	15	7,5	14	2
K0421.060301	K0421.060302	M6	30	7,5	14	2
K0421.080401	K0421.080402	M8	40	7,5	14	3,5
K0421.080801	K0421.080802	M8	80	7,5	14	3,5
K0421.100451	K0421.100452	M10	45	7,5	14	4,7
K0421.100701	K0421.100702	M10	70	7,5	14	4,7
K0421.100901	K0421.100902	M10	90	7,5	14	4,7
K0421.101251	K0421.101252	M10	125	7,5	14	4,7
K0421.101501	K0421.101502	M10	150	7,5	14	4,7
K0421.120451	K0421.120452	M12	45	7,5	14	7,7
K0421.120661	K0421.120662	M12	66	7,5	14	7,7
K0421.121001	K0421.121002	M12	100	7,5	14	7,7
K0421.121251	K0421.121252	M12	125	7,5	14	7,7
K0421.121501	K0421.121502	M12	150	7,5	14	7,7
K0421.140661	K0421.140662	M14	66	7,5	14	11,1
K0421.141001	K0421.141002	M14	100	7,5	14	11,1
K0421.141251	K0421.141252	M14	125	7,5	14	11,1
K0421.141501	K0421.141502	M14	150	7,5	14	11,1
K0421.160661	K0421.160662	M16	66	7,5	17	14,5
K0421.161001	K0421.161002	M16	100	7,5	17	14,5
K0421.161251	K0421.161252	M16	125	7,5	17	14,5
K0421.161501	K0421.161502	M16	150	7,5	17	14,5
K0421.162001	K0421.162002	M16	200	7,5	17	14,5
K0421.200851	K0421.200852	M20	85	10,5	22	24,3
K0421.201001	K0421.201002	M20	100	10,5	22	24,3
K0421.201251	K0421.201252	M20	125	10,5	22	24,3
K0421.201501	K0421.201502	M20	150	10,5	22	24,3
K0421.202001	K0421.202002	M20	200	10,5	22	24,3
K0421.240851	K0421.240852	M24	85	10,5	24	36,1
K0421.241001	K0421.241002	M24	100	10,5	24	36,1
K0421.241251	K0421.241252	M24	125	10,5	24	36,1
K0421.241501	K0421.241502	M24	150	10,5	24	36,1
K0421.242001	K0421.242002	M24	200	10,5	24	36,1



Swivel feet ball joints

with internal thread





Material:
Steel or stainless steel 1.4301.

Version:
Steel blue passivated.
Stainless steel, bright.

Sample order:
K0422.061
K0422.061 and K0415.1030 **assembled**

Note for ordering:
If the ball joint and plate are to be supplied assembled, please add the suffix **"assembled"** to the order number for the ball joint and plate.
(e.g. K0422.061 and K0415.1030 **assembled**.)

Note:
For fastening swivel feet with standard screws.

Swivel feet consist of a ball joint and a plate. Any ball joint can be combined with any plate.
The height of the complete swivel foot is calculated by the height of the hexagon + 22.5 mm.
(Overall height of swivel foot = L1 + 22.5 mm).



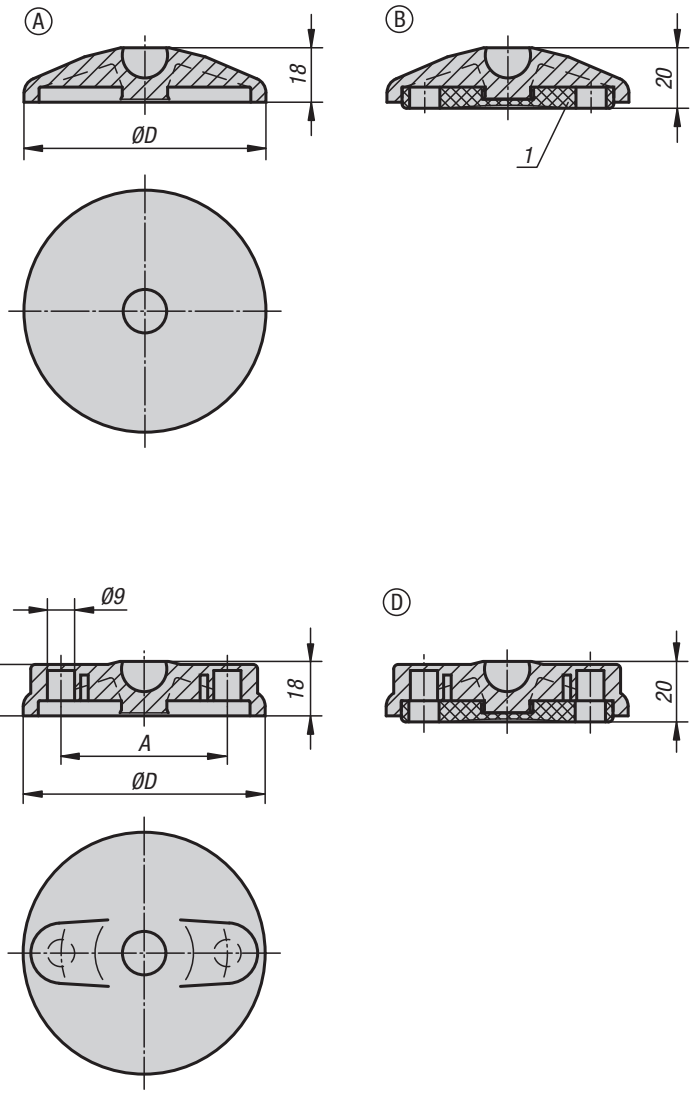
KIPP Swivel feet ball joints with internal thread

Order No. Steel	Order No. Stainless steel	D	L1	T
K0422.061	**K0422.062**	M6	7,5	10
K0422.081	**K0422.082**	M8	7,5	10

Swivel feet plates

plastic





Material:
Plates, thermoplastic, glass bead reinforced.
Anti-slip plate thermoplastic elastomer.

Version:
black.

Sample order:
K0415.1030
K0415.1030 and K0421.060151 **assembled**

Note for ordering:
If the swivel foot plate and the threaded spindle or ball joint are to be supplied assembled, please add the suffix **"assembled"** to the order number for the plate and the spindle or ball joint.
(e.g. K0415.1030 and K0421.060151 **"assembled"**.)

Note:
Swivel feet consist of a plate and a threaded spindle or ball joint. Any plate can be combined with any threaded spindle or ball joint. The anti-slip plate absorbs vibrations and prevents the swivel foot slipping.
For matching threaded spindles see K0421.
For matching ball joints see K0422.

Drawing reference:
1) From plate Ø 80
Form A without screw-on hole, without anti-slip plate
Form B without screw-on hole, with anti-slip plate
Form C with screw-on hole (closed), without anti-slip plate
Form D with screw-on hole (closed), with anti-slip plate

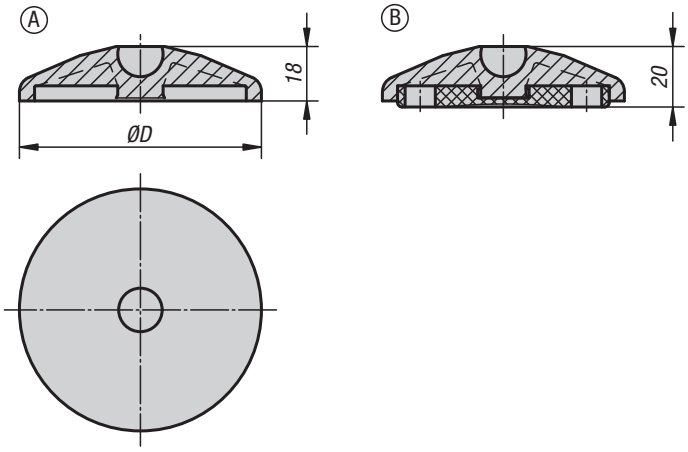
KIPP Swivel feet plates, plastic

Order No. Form A	Order No. Form B	D	Load rating max. kN
K0415.1030	**K0415.2030**	30	5
K0415.1040	**K0415.2040**	40	9
K0415.1045	**K0415.2045**	45	9
K0415.1050	**K0415.2050**	50	9
K0415.1060	**K0415.2060**	60	9
K0415.1080	**K0415.2080**	80	9
K0415.1100	**K0415.2100**	100	9

Order No. Form C	Order No. Form D	D	A	Load rating max. kN
K0415.3080	**K0415.4080**	80	55	9
K0415.3100	**K0415.4100**	100	74	9
K0415.3120	**K0415.4120**	120	94	9

Antistatic plate for swivel feet





Material:
Plates, thermoplastic, glass bead reinforced.
Anti-slip plate thermoplastic elastomer.

Version:
black.

Sample order:
K0415.11040

Note for ordering:
If the swivel foot plate and the threaded spindle or ball joint are to be supplied assembled, please add the suffix **"assembled"** to the order number for the plate and the spindle or ball joint.
(e.g. K0415.1030 and K0421.060151 **"assembled"**.)

Note:
Swivel feet consist of a plate and a threaded spindle or ball joint. Any plate can be combined with any threaded spindle or ball joint. The anti-slip plate absorbs vibrations and prevents the swivel foot slipping.
For matching threaded spindles see K0421.
For matching ball joints see K0422.

Safety:
These ESD products can also be used for devices, components and protection systems in areas with high risk of explosion.
Use of these ESD products prevents the occurrence of electrostatic spark discharges, eliminating the potential ignition of gases and dusts which could lead to explosions in enclosed spaces.
Manufacturers and operators must use and conform to ATEX directives for the protection of persons working in areas with high risk of explosion.
These ESD products are certified by TÜV-Süd in relation to their electrical discharge capability.

Target groups:
Device manufacturers required to conform to ATEX product directive 2014/34/EU.
Operators required to conform to ATEX worker protection directive 1999/92/EC.

Drawing reference:
Form A without screw-on hole, without anti-slip plate
Form B without screw-on hole, with anti-slip plate

KIPP Antistatic plate for swivel feet

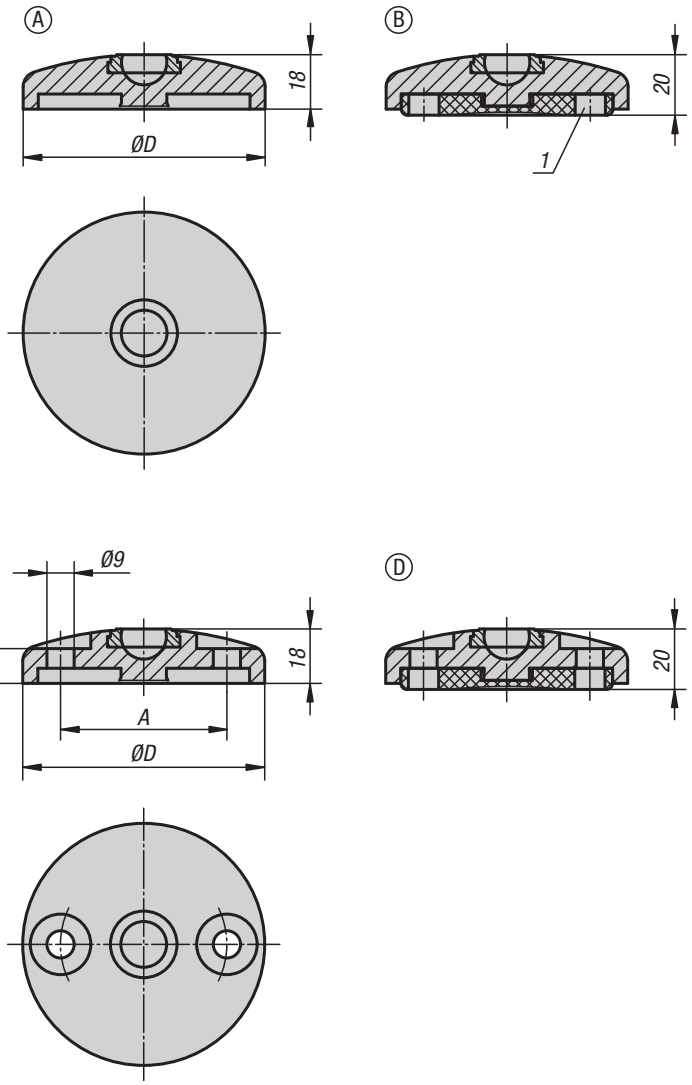
Order No.	Form	D	Load rating max. kN
K0415.11040	A	40	9
K0415.11050	A	50	9
K0415.11060	A	60	9
K0415.12040	B	40	9
K0415.12050	B	50	9
K0415.12060	B	60	9

Notes

Swivel feet plates

die-cast zinc or stainless steel





Material:
Plate die-cast zinc or stainless steel 1.4305.
Anti-slip plate thermoplastic elastomer.

Version:
Die-cast zinc plate, black powder-coated.
Stainless steel plate, bright.

Sample order:
K0416.10301
K0416.10301 and K0421.060151 **assembled**

Note for ordering:
If the swivel foot plate and the threaded spindle or the ball joint are to be supplied assembled, please add the suffix **"assembled"** to the order number for the plate and the spindle or the ball joint.
(e.g. K0416.10301 and K0421.060151 **assembled**).

Note:
Swivel feet consist of a plate and a threaded spindle or ball joint. Any plate can be combined with any threaded spindle or ball joint. The anti-slip plate absorbs vibrations and prevents the swivel foot slipping.
For matching threaded spindles see K0421.
For matching ball joints see K0422.

Drawing reference:
1) From plate Ø 80
Form A without screw-on hole, without anti-slip plate
Form B without screw-on hole, with anti-slip plate
Form C with screw-on hole (open), without anti-slip plate
Form D with screw-on hole (open), with anti-slip plate

Swivel feet plates

die-cast zinc or stainless steel

KIPP Swivel feet plates, die-cast zinc

Order No. Form A	Order No. Form B	D	Load rating max. kN
K0416.10301	K0416.20301	30	20
K0416.10401	K0416.20401	40	30
K0416.10451	K0416.20451	45	30
K0416.10501	K0416.20501	50	30
K0416.10601	K0416.20601	60	30
K0416.10801	K0416.20801	80	30
K0416.11001	K0416.21001	100	35
K0416.11201	K0416.21201	120	35

Order No. Form C	Order No. Form D	D	A	Load rating max. kN
K0416.30801	K0416.40801	80	55	30
K0416.31001	K0416.41001	100	74	35
K0416.31201	K0416.41201	120	94	35

KIPP Swivel feet plates, stainless steel

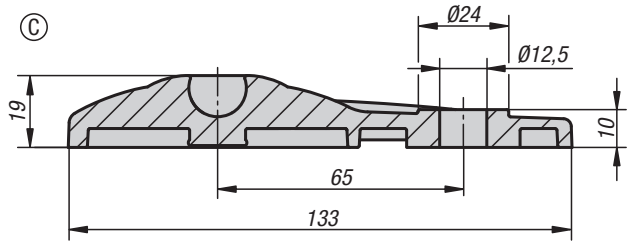
Order No. Form A	Order No. Form B	D	Load rating max. kN
K0416.10302	K0416.20302	30	20
K0416.10402	K0416.20402	40	30
K0416.10452	K0416.20452	45	30
K0416.10502	K0416.20502	50	35
K0416.10602	K0416.20602	60	35
K0416.10802	K0416.20802	80	35
K0416.11002	K0416.21002	100	40
K0416.11202	K0416.21202	120	40

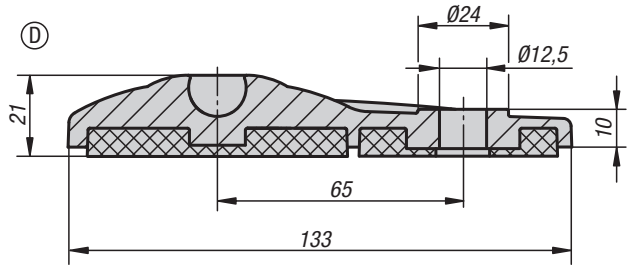
Order No. Form C	Order No. Form D	D	A	Load rating max. kN
K0416.30802	K0416.40802	80	55	35
K0416.31002	K0416.41002	100	74	40
K0416.31202	K0416.41202	120	94	40

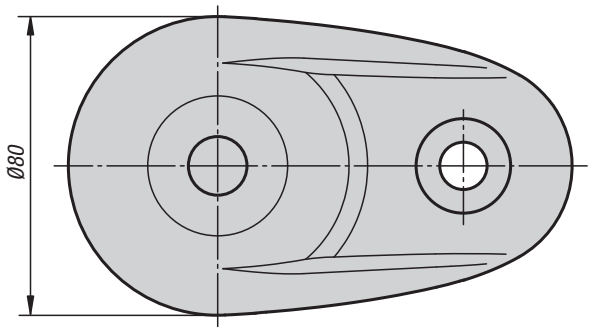
Swivel feet plates extended

plastic









Material:
Plates, thermoplastic, fibreglass reinforced.
Anti-slip plate thermoplastic elastomer.

Version:
black.

Sample order:
K0654.1030
K0654.1030 and K0421.060151 **assembled**

Note for ordering:
If the swivel foot plate and the threaded spindle or ball joint are to be supplied assembled, please add the suffix **"assembled"** to the order number for the plate and the spindle or ball joint.
(e.g. K0654.30803 and K0421.060151 **assembled**.)

Note:
Swivel feet consist of a plate and a threaded spindle or ball joint. Any plate can be combined with any threaded spindle or ball joint. The anti-slip plate absorbs vibrations and prevents the swivel foot slipping.
For matching threaded spindles see K0421.
For matching ball joints see K0422.

Drawing reference:
Form C with screw-on hole, without anti-slip plate
Form D with screw-on hole, with anti-slip plate



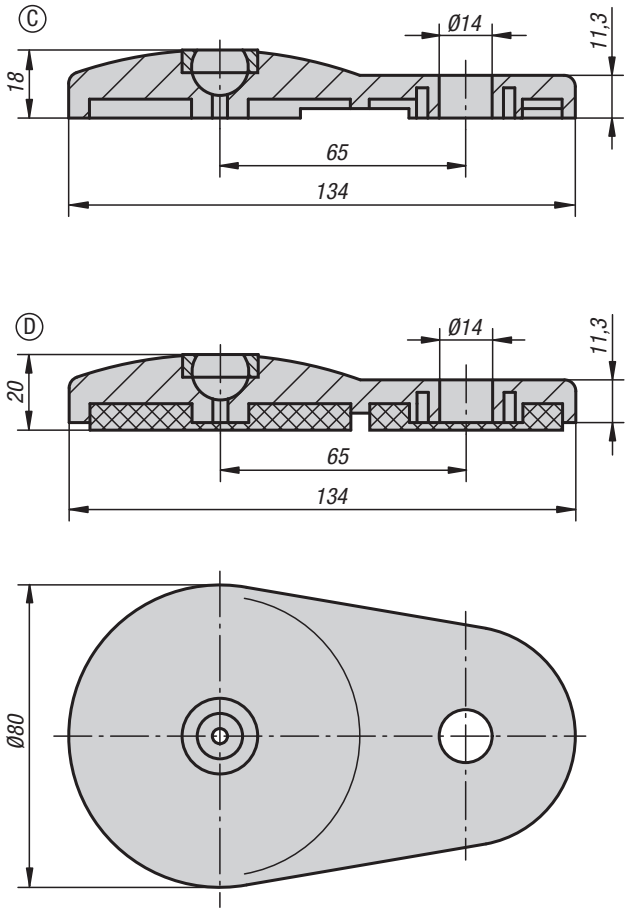
KIPP Swivel feet plates extended, plastic

Order No.	Form	Load rating max. kN
K0654.30803	C	10
K0654.40803	D	10

Swivel feet plates extended

die-cast zinc





Material:
Plate die-cast zinc.
Anti-slip plate thermoplastic elastomer.

Version:
Plate black powder-coated.

Sample order:
K0417.30801
K0417.30801 and K0421.060151 **assembled**

Note for ordering:
If the swivel foot plate and the threaded spindle or ball joint are to be supplied assembled, please add the suffix **"assembled"** to the order number for the plate and the spindle or ball joint.
(e.g. K0417.30801 and K0421.060151 **assembled**.)

Note:
Swivel feet consist of a plate and a threaded spindle or ball joint. Any plate can be combined with any threaded spindle or ball joint. The anti-slip plate absorbs vibrations and prevents the swivel foot slipping.
For matching threaded spindles see K0421.
For matching ball joints see K0422.

Drawing reference:
Form C with screw-on hole, without anti-slip plate
Form D with screw-on hole, with anti-slip plate

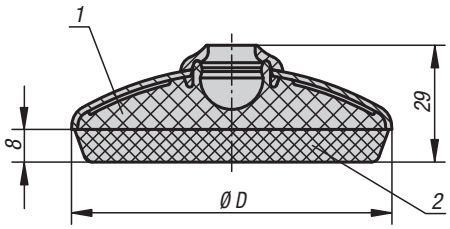
KIPP Swivel feet plates extended, die-cast zinc

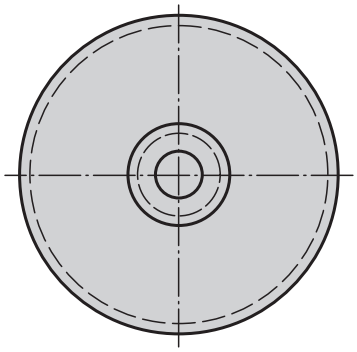
Order No.	Form	Load rating max. kN
K0417.30801	C	30
K0417.40801	D	30

Swivel feet plates

stainless steel







Material:
Plates, stainless steel 1.4301.
Core, thermoplastic PA.
Rubber support TPE.

Version:
Plate bright.
Rubber support light grey with sealing lip, hardness 70 Shore A.
Temp. range -20°C to +100°C.

Sample order:
K0418.1060
K0418.1060 and K0421.060152 **assembled**

Note for ordering:
If the swivel foot plate and the threaded spindle or ball joint are to be supplied assembled, please add the suffix **"assembled"** to the order number for the plate and the spindle or ball joint. (e.g. K0418.1060 and K0421.060152 **assembled**.)

Note:
The rubber support is joined with the stainless steel plate and the PA core by injection moulding. The rubber support is resistant to oil and water (up to 60 °C). In addition, it is furnished with antibacterial and antimicrobial protection and is thus outstandingly suited for sectors in the food industry.

Swivel feet consist of a plate and a threaded spindle or ball joint. Any plate can be combined with any threaded spindle or ball joint.
For matching threaded spindles see K0421.
For matching ball joints see K0422.

Drawing reference:
1) PA-core
2) rubber base



KIPP Swivel feet plates, stainless steel

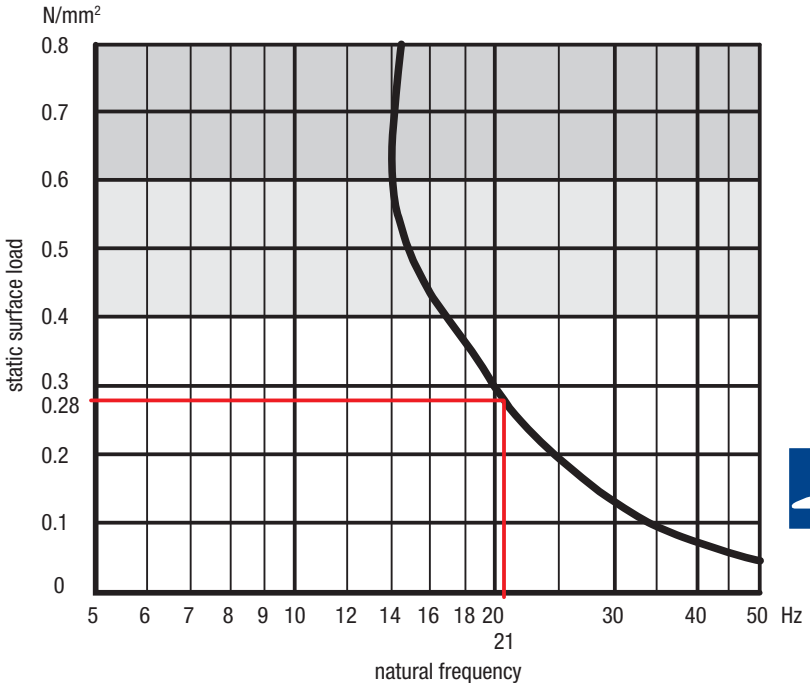
Order No.	D	Load rating max. kN
K0418.1060	58,5	7
K0418.1080	78,5	7
K0418.1100	98,5	7

Technical information
Swivel feet and plates with vibration absorption

Natural frequency:
Every sprung weight, such as a machine or piece of equipment, that is standing on swivel feet with vibration absorbers vibrates after an initial impetus at its own natural frequency (resonance frequency). In the diagram to the side (Fig. 1) the natural frequency of Sylomer V12 under pressure by various forces can be read. The optimum range of use is with a pressure of ≤ 0.4 N/mm. A maximum pressure of 0.6 N/mm should not be exceeded.

Interference frequency:
The frequency emitted by a machine or a piece of equipment is known as its interference frequency. Effective vibration absorption is dependent on the interference frequency (the frequency to be absorbed) and the natural frequecy of the absorption unit. The greater the difference in frequency between the natural frequency and the interference frequency, the better the absorption. An absorbing effect will only be achieved if the interference frequency is over √2 times the natural frequency of the absorption unit.

Fig. 1



Calculation example:

Swivel foot: M12, D1=30,5
Loading: 300N

Pressure: $\frac{F}{A} = \frac{300\ N}{529{,}5\ mm^2} = 0{,}57\ N/mm^2$

$> 0{,}4\ N/mm^2$

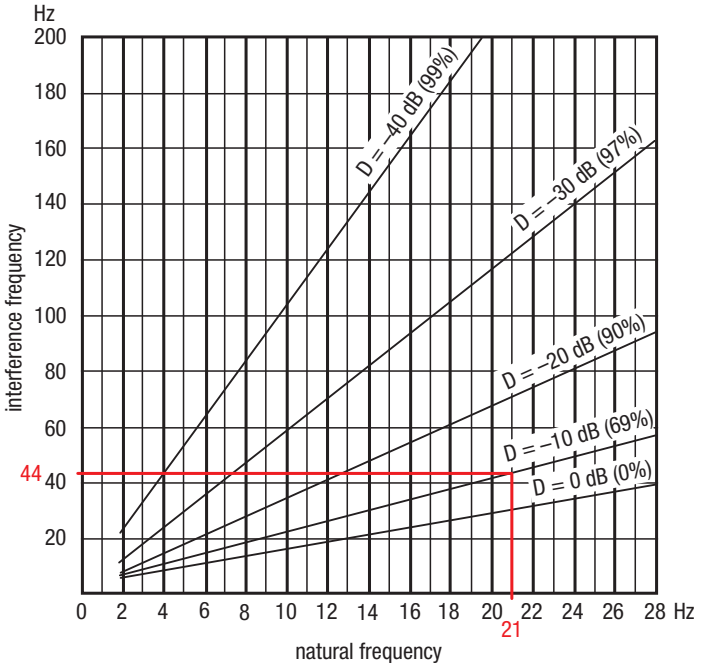
Swivel foot: M16, D1=40,5
Loading: 300N

Pressure: $\frac{F}{A} = \frac{300\ N}{1087{,}2\ mm^2} = \mathbf{0{,}28\ N/mm^2}$

$< 0{,}4\ N/mm^2$

The M16 swivel foot is chosen since the pressure is ≤ 0.4 N/mm². From Fig. 1, a pressure of **0.28 N/mm²** gives a natural frequency of **21 Hz**. With an interference frequency of **44 Hz** an absorption effect of 69% is achieved (Fig. 2).

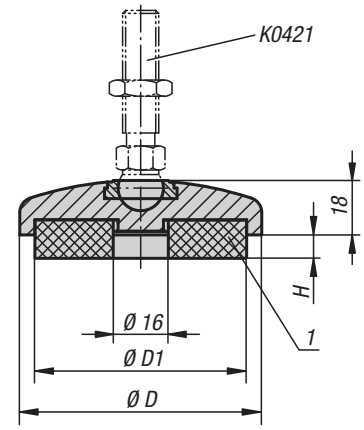
Fig. 2

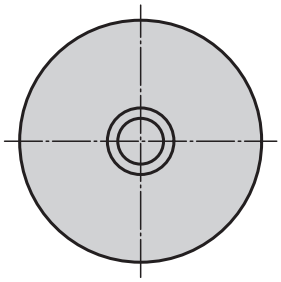


Swivel feet plates

with vibration absorption







Material:
Plate die-cast zinc or stainless steel 1.4305.
Damper plate PUR elastomere (Sylomer V12).

Version:
Die-cast zinc plate, black powder-coated.
Stainless steel plate, bright.
Damper plate, grey, glued in, anti-slip.
Temp. range -30 °C to +70 °C.

Sample order:
K0419.20601
K0419.20601 and K0421.060151 **assembled**

Note for ordering:
If the swivel foot plate and the threaded spindle or ball joint are to be supplied assembled, please add the suffix **"assembled"** to the order number for the plate and the spindle or ball joint.
(e.g. K0419.20601 and K0421.060151 **assembled**.)

Note:
The load rating given in the table is a recommendation of the **permanent static** load up to which the absorption unit should be used. This static load corresponds to a surface pressure of 0.4 N/mm², at which the material achieves its optimum absorption properties. Here it is taken into account that under dynamic demands an additional load, up to 0.6 N/mm² may occur. The damper plate absorbs vibrations and prevents the swivel foot slipping. Swivel feet consist of a plate and a threaded spindle or ball joint. Any plate can be combined with any threaded spindle or ball joint.
For matching threaded spindles see K0421.
For matching ball joints see K0422.

Drawing reference:
1) damper plate

KIPP Swivel feet plates, die-cast zinc

Order No.	D	D1	H by 0 / 0.4 / 0.6 N/mm²	Load rating N (by 0.4 N/mm²)
K0419.20401	40	30,5	7 / 5,9 / 4,8	62
K0419.20501	50	40,5	7 / 5,9 / 4,8	212
K0419.20601	60	50	7 / 5,9 / 4,8	433
K0419.20801	80	68	7 / 5,9 / 4,8	614

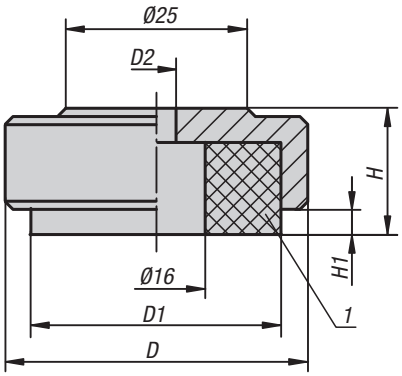
KIPP Swivel feet plates, stainless steel

Order No.	D	D1	H by 0 / 0.4 / 0.6 N/mm²	Load rating N (by 0.4 N/mm²)
K0419.20402	40	30,5	7 / 5,8 / 4,9	212
K0419.20502	50	40,5	7 / 5,8 / 4,9	435
K0419.20602	60	50	7 / 5,8 / 4,9	705
K0419.20802	80	68	7 / 5,8 / 4,9	1372

Machine feet

with vibration absorption





Material:
Plate steel.
Damper plate PUR elastomer (Sylomer V12).

Version:
Plate blue passivated.
Damper plate grey, glued in, anti-slip.
Temp. range -30 °C to +70 °C.

Sample order:
K0670.046

Note:
The load rating given in the table is a recommendation of the **permanent static** load up to which the damper plate should be used. This static load corresponds to a surface pressure of 0.4 N/mm², at which the material reaches its optimum absorption properties. Here it is taken into account that under dynamic loading an additional load of up to 0.6 N/mm² may occur. The damper plate absorbs vibrations and prevents the machine foot slipping.

Drawing reference:
1) damper plate

KIPP Machine feet with vibration absorption

Order No.	Main material	D	D1	D2	H	H1 by 0 / 0.4 / 0.6 N/mm²	Load rating N (by 0.4 N/mm²)
K0670.036	steel	36	30,5	5,5	15	4 / 2,8 / 1,9	212
K0670.046	steel	46	40,5	6,6	17	4 / 2,8 / 1,9	435
K0670.056	steel	56	50	9	19	4 / 2,8 / 1,9	705
K0670.074	steel	74	68	9	21	4 / 2,8 / 1,9	1372

Modular structure of a levelling foot

Application:
Levelling feet are of modular design. The components can be individually combined to match the application. Levelling feet can be used on machines, plants and even office furniture.

Modular design:
The levelling feet consist of two components - a plate and a threaded spindle. **Any** plate can be combined with **any** threaded spindle (see Fig. 1).

Levelling feet height:
Regardless of the plate or threaded spindle size, levelling feet always have a minimum height of H = 30 mm (see Fig. 2). The height of the complete levelling foot is calculated from the length of the threaded spindle + 30 mm. (Total height of levelling foot = L + 30 mm).

Fig. 1

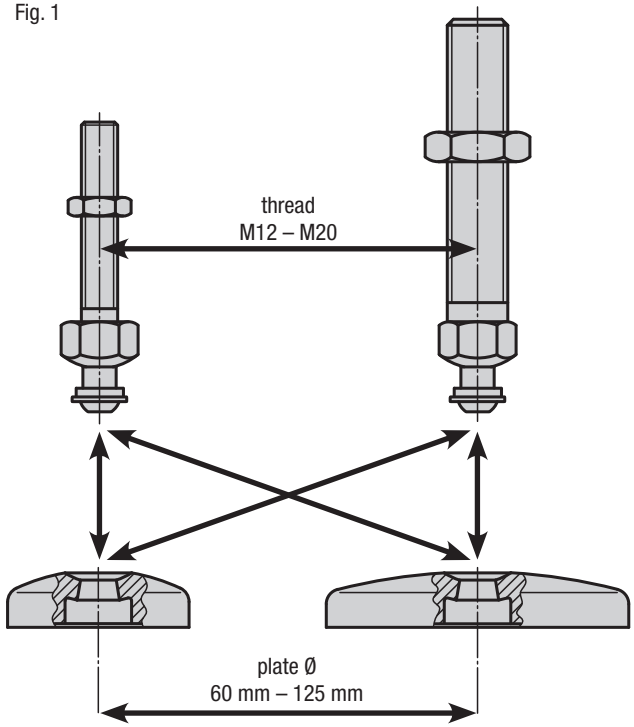
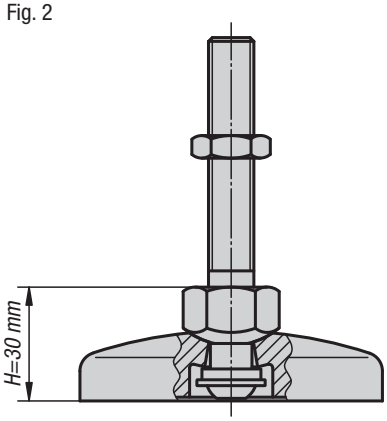


Fig. 2



Inclination angle of threaded spindle:



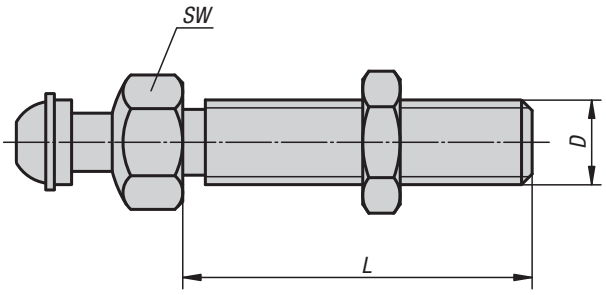
Assembly:
Insert the threaded spindle vertically into the levelling foot plate and fasten it from underneath with a spacer ring, washer and screw (no unintentional loosening of threaded spindle from the plate). If necessary, the two fastening holes (closed) in the levelling foot plate can be opened by simply punching them out to allow the levelling foot to be bolted to the floor.

Note for ordering:
If the levelling foot plate and the threaded spindle are to be supplied assembled, please add the suffix **"assembled"** to the order number for the plate and spindle (see sample order on the relevant product page).

Levelling feet threaded spindles

steel or stainless steel





Material:
Steel or 1.4305 stainless steel

Version:
Steel blue passivated.
Stainless steel, bright.

Sample order:
K0427.120661
K0427.120661 and K0423.1060 **assembled**

Note for ordering:
If the threaded spindle and the levelling foot plate are to be supplied assembled, please add the suffix **"assembled"** to the order number for the spindle and plate. (e.g. K0427.120661 and K0423.1060 **assembled**.)

Note:
Levelling feet consist of a plate and a threaded spindle. Any plate can be combined with any threaded spindle. The height of the complete levelling foot is calculated from the length of the threaded spindle + 30 mm. (Total height of levelling foot = L + 30 mm)

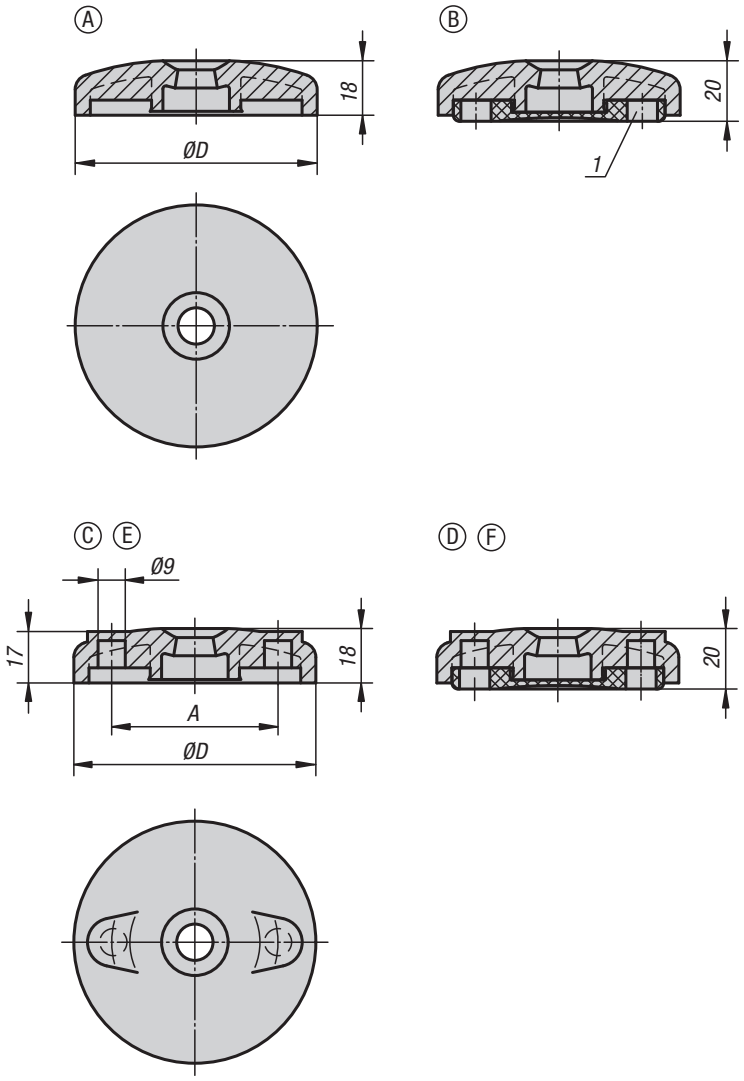
KIPP Levelling feet threaded spindles steel or stainless steel

Order No. Steel	Order No. Stainless steel	D	L	SW	Load rating max. kN
K0427.120661	**K0427.120662**	M12	66	22	7,7
K0427.121001	**K0427.121002**	M12	100	22	7,7
K0427.121251	**K0427.121252**	M12	125	22	7,7
K0427.121501	**K0427.121502**	M12	150	22	7,7
K0427.160661	**K0427.160662**	M16	66	22	14,5
K0427.161001	**K0427.161002**	M16	100	22	14,5
K0427.161251	**K0427.161252**	M16	125	22	14,5
K0427.161501	**K0427.161502**	M16	150	22	14,5
K0427.162001	**K0427.162002**	M16	200	22	14,5
K0427.201001	**K0427.201002**	M20	100	22	24,3
K0427.201251	**K0427.201252**	M20	125	22	24,3
K0427.201501	**K0427.201502**	M20	150	22	24,3
K0427.202001	**K0427.202002**	M20	200	22	24,3

Levelling feet plates

plastic





Material:
Plates, thermoplastic, fibreglass reinforced.
Anti-slip plate thermoplastic elastomer.

Version:
black.

Sample order:
K0423.1060
K0423.1060 and K0427.120661 **assembled**

Note for ordering:
If the levelling foot plate and the threaded spindle are to be supplied assembled, please add the suffix **"assembled"** to the order number for the plate and spindle. (e.g. K0423.1060 and K0427.120661 **assembled**.)

Note:
Levelling feet consist of a plate and a threaded spindle. Any plate can be combined with any threaded spindle. The anti-slip plate absorbs vibrations and prevents the levelling foot slipping.
For matching threaded spindles see K0427.

Drawing reference:
1) From plate Ø 80
Form A without screw-on hole, without anti-slip plate
Form B without screw-on hole, with anti-slip plate
Form C with screw-on hole (closed), without anti-slip plate
Form D with screw-on hole (closed), with anti-slip plate
Form E with screw-on hole (open), without anti-slip plate
Form F with screw-on hole (open), with anti-slip plate

KIPP Levelling feet plates plastic

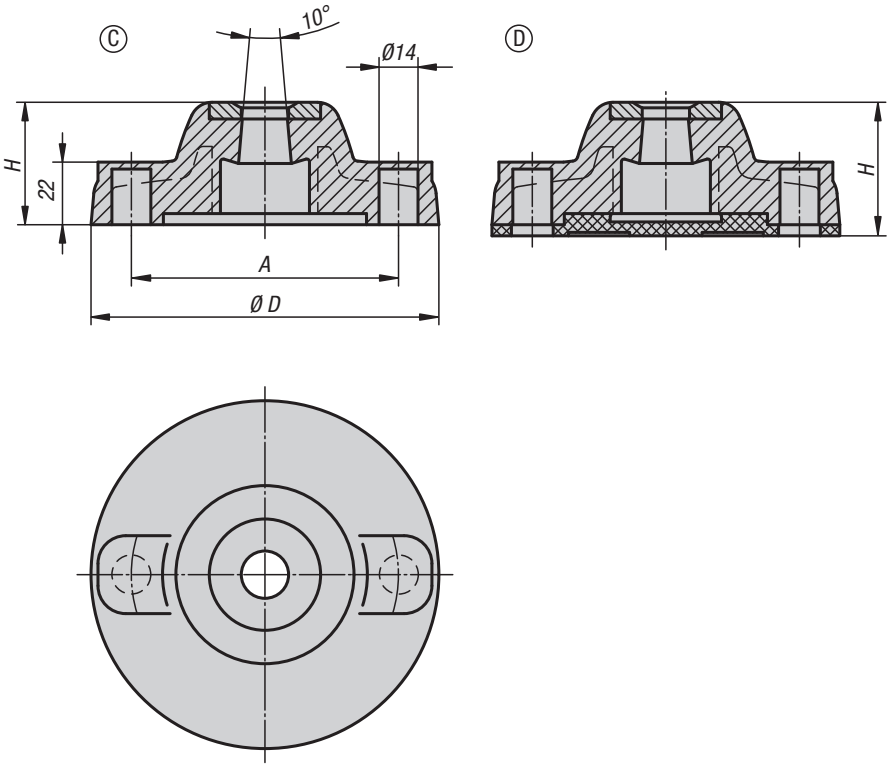
Order No. Form A	Order No. Form B	D	Load rating max. kN
K0423.1060	**K0423.2060**	60	12
K0423.1080	**K0423.2080**	80	12
K0423.1100	**K0423.2100**	100	12

Order No. Form C	Order No. Form D	Order No. Form E	Order No. Form F	D	A	Load rating max. kN
K0423.3080	**K0423.4080**	**K0423.5080**	**K0423.6080**	80	55	12
K0423.3100	**K0423.4100**	**K0423.5100**	**K0423.6100**	100	74	12

Levelling feet plates

plastic, heavy-duty version





Material:
Plates, thermoplastic, fibreglass reinforced.
Anti-slip plate thermoplastic elastomer.

Version:
black.

Sample order:
K0424.31251
K0424.31251 and K0427.120661 **assembled**

Note for ordering:
If the levelling foot plate and the threaded spindle are to be supplied assembled, please add the suffix **"assembled"** to the order number for the plate and spindle.
(e.g. K0424.31251 and K0427.120661 **assembled**.)

Note:
Levelling feet consist of a plate and a threaded spindle.
Any plate can be combined with any threaded spindle.
The anti-slip plate absorbs vibrations and prevents the levelling foot slipping.
For matching threaded spindles see K0427.

Drawing reference:
Form C with screw-on hole (closed), without anti-slip plate
Form D with screw-on hole (closed), with anti-slip plate

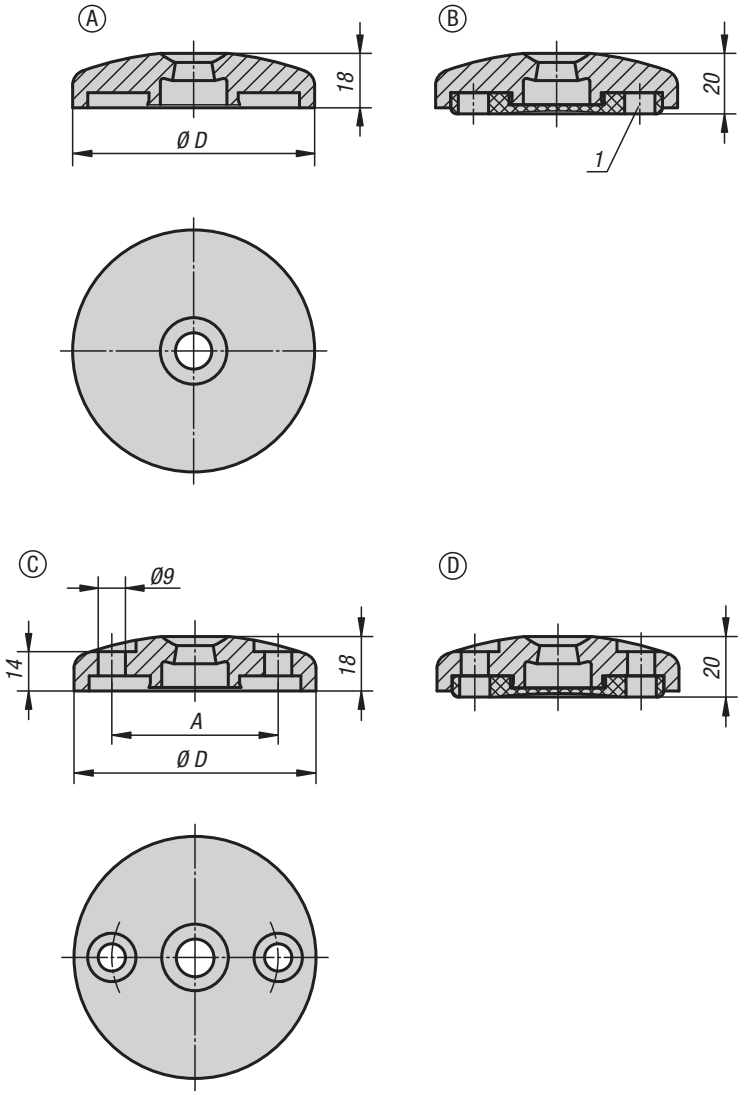
KIPP Levelling feet plates, plastic, heavy-duty version

Order No.	Form	D	A	H	Load rating max. kN
K0424.31251	C	125	96	44	18
K0424.31751	C	175	135	45	25
K0424.41251	D	125	96	48	18
K0424.41751	D	175	135	49	25

Levelling feet plates

die-cast zinc or stainless steel





Material:
Plate die-cast zinc or stainless steel 1.4305.
Anti-slip plate thermoplastic elastomer.

Version:
Die-cast zinc plate, black powder-coated.
Stainless steel plate, bright.

Sample order:
K0425.10601
K0425.10601 and K0427.120661 **assembled**

Note for ordering:
If the levelling foot plate and the threaded spindle are to be supplied assembled, please add the suffix **"assembled"** to the order number for the plate and spindle.
(e.g. K0425.10601 and K0427.120661 **assembled**).

Note:
Levelling feet consist of a plate and a threaded spindle. Any plate can be combined with any threaded spindle.
The anti-slip plate absorbs vibrations and prevents the levelling foot slipping.
For matching threaded spindles see K0427.

Drawing reference:
1) From plate Ø 80
Form A without screw-on hole, without anti-slip plate
Form B without screw-on hole, with anti-slip plate
Form C with screw-on hole (open), without anti-slip plate
Form D with screw-on hole (open), with anti-slip plate

Levelling feet plates

die-cast zinc or stainless steel

KIPP Levelling feet plates die-cast zinc

Order No. Form A	Order No. Form B	D	Load rating max. kN
K0425.10401	-	40	20
K0425.10451	-	45	25
K0425.10501	-	50	25
K0425.10601	K0425.20601	60	35
K0425.10801	K0425.20801	80	35
K0425.11001	K0425.21001	100	35
K0425.11201	K0425.21201	120	35

Order No. Form C	Order No. Form D	D	A	Load rating max. kN
K0425.30801	K0425.40801	80	55	35
K0425.31001	K0425.41001	100	74	35

KIPP Levelling feet plates stainless steel

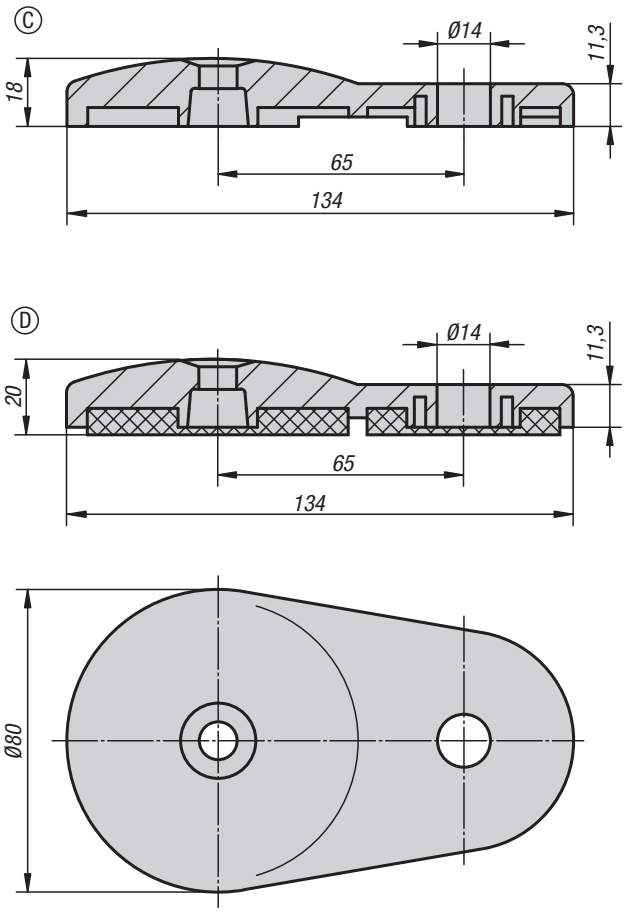
Order No. Form A	Order No. Form B	D	Load rating max. kN
K0425.10602	K0425.20602	60	45
K0425.10802	K0425.20802	80	45
K0425.11002	K0425.21002	100	45

Order No. Form C	Order No. Form D	D	A	Load rating max. kN
K0425.30802	K0425.40802	80	55	45
K0425.31002	K0425.41002	100	74	45

Levelling feet plates extended

die-cast zinc





Material:
Plate die-cast zinc.
Anti-slip plate thermoplastic elastomer.

Version:
Plate black powder-coated.

Sample order:
K0426.30801
K0426.30801 and K0427.120661 **assembled**

Note for ordering:
If the levelling foot plate and the threaded spindle are to be supplied assembled, please add the suffix **"assembled"** to the order number for the plate and spindle.
(e.g. K0426.30801 and K0427.120661 **assembled**.)

Note:
Levelling feet consist of a plate and a threaded spindle. Any plate can be combined with any threaded spindle. The anti-slip plate absorbs vibrations and prevents the levelling foot slipping.
For matching threaded spindles see K0427.

Drawing reference:
Form C with screw-on hole, without anti-slip plate
Form D with screw-on hole, with anti-slip plate

KIPP Levelling feet plates extended die-cast zinc

Order No.	Form	Load rating max. kN
K0426.30801	C	35
K0426.40801	D	35

Notes

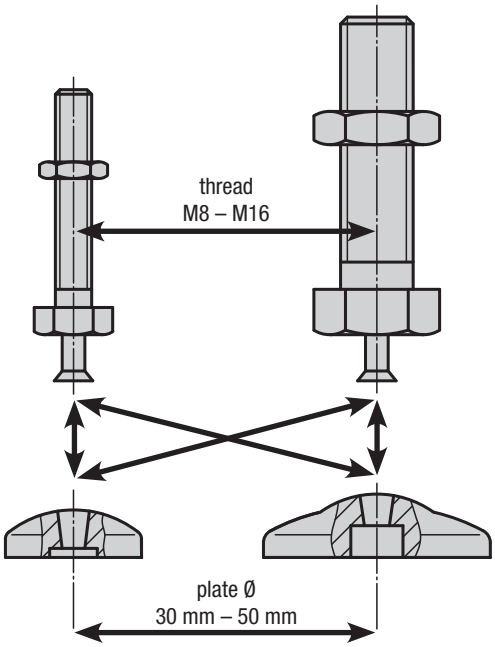
Technical information
ECO-Line levelling feet

Modular structure of an ECO-Line levelling foot

Application:
ECO-Line levelling feet are of modular design. The components can be individually combined to match the application. However, the threaded spindle is not screwed but pressed in permanently. The levelling feet are used for a wide range of machines, plants and even office furniture.

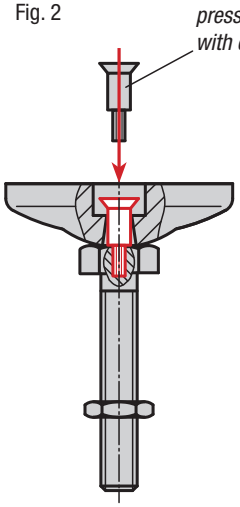
Modular design:
The levelling feet consist of two components - a plate and a threaded spindle. **Any** plate can be combined with **any** threaded spindle (see Fig. 1).

Fig. 1



Assembly:
Place levelling foot plate on threaded spindle and press pin in up to collar (threaded spindle cannot be inadvertently removed from plate).

Fig. 2



Inclination angle of threaded spindle:

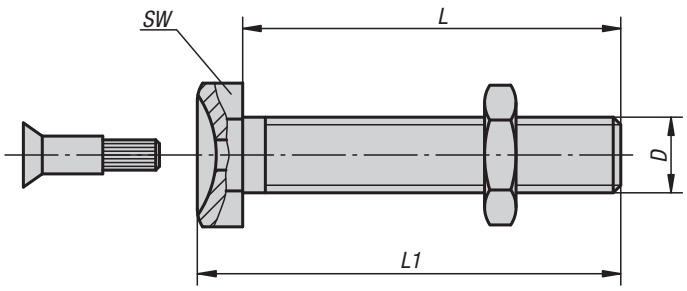


Note for ordering:
If the levelling foot plate and the threaded spindle are to be supplied assembled, please add the suffix **"assembled"** to the order number for the plate and spindle (see sample order on the relevant product page).

Levelling feet ECO-Line threaded spindles

steel or stainless steel





Material:
Steel or 1.4305 stainless steel

Version:
Steel blue passivated.
Stainless steel, bright.

Sample order:
K0429.101201
K0429.101201 and K0428.10301 **assembled**

Note for ordering:
If the threaded spindle and the levelling foot plate are to be supplied assembled, please add the suffix **"assembled"** to the order number for the spindle and plate.
(e.g. K0429.080251 and K0428.10301 **assembled**.)

Note:
ECO-Line levelling feet consist of a threaded spindle and a plate. Any threaded spindle can be combined with any plate.

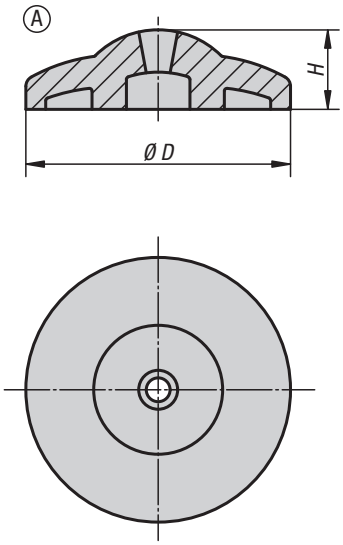
KIPP Levelling feet ECO-Line threaded spindles steel or stainless steel

Order No. Steel	Order No. Stainless steel	D	L	L1	SW	Load rating max. kN
K0429.080251	K0429.080252	M8	25	29,5	13	3,5
K0429.080401	K0429.080402	M8	40	44,5	13	3,5
K0429.080501	K0429.080502	M8	50	54,5	13	3,5
K0429.080701	K0429.080702	M8	70	74,5	13	3,5
K0429.080801	K0429.080802	M8	80	84,5	13	3,5
K0429.081001	K0429.081002	M8	100	104,5	13	3,5
K0429.081201	K0429.081202	M8	120	124,5	13	3,5
K0429.100251	K0429.100252	M10	25	30	17	4,7
K0429.100401	K0429.100402	M10	40	45	17	4,7
K0429.100501	K0429.100502	M10	50	55	17	4,7
K0429.100701	K0429.100702	M10	70	75	17	4,7
K0429.100801	K0429.100802	M10	80	85	17	4,7
K0429.101001	K0429.101002	M10	100	105	17	4,7
K0429.101201	K0429.101202	M10	120	125	17	4,7
K0429.120251	K0429.120252	M12	25	31	19	7,7
K0429.120401	K0429.120402	M12	40	46	19	7,7
K0429.120501	K0429.120502	M12	50	56	19	7,7
K0429.120701	K0429.120702	M12	70	76	19	7,7
K0429.120801	K0429.120802	M12	80	86	19	7,7
K0429.121001	K0429.121002	M12	100	106	19	7,7
K0429.121201	K0429.121202	M12	120	126	19	7,7
K0429.160501	K0429.160502	M16	50	58,5	24	14,5
K0429.161001	K0429.161002	M16	100	108,5	24	14,5
K0429.161501	K0429.161502	M16	150	158,5	24	14,5

Levelling feet plates ECO-Line

die-cast zinc, stainless steel or plastic





Material:
Plate thermoplastic, die-cast zinc or stainless steel 1.4305.
Anti-slip plate thermoplastic elastomer.

Version:
Thermoplastic plate black.
Die-cast zinc plate blue galvanized.
Stainless steel plate bright.

Sample order:
K0428.10303
K0428.10303 and K0429.080801 **assembled**

Note for ordering:
If the levelling foot plate and the threaded spindle are to be supplied assembled, please add the suffix **"assembled"** to the order number for the plate and spindle.
(e.g. K0428.10303 and K0429.080801 **"assembled"**.)

Note:
ECO-Line levelling feet consist of a plate and a threaded spindle. Any plate can be combined with any threaded spindle.
The anti-slip plate absorbs vibrations and prevents the levelling foot slipping.
For matching threaded spindles see K0429.

Drawing reference:
Form A without anti-slip plate
Form B with anti-slip plate

KIPP Levelling feet plates ECO-Line die-cast zinc

Order No.	Form	D	H	Load rating max. kN
K0428.10301	A	30	11,5	16
K0428.10401	A	40	12	18
K0428.10501	A	50	14,5	20
K0428.20301	B	30	13,5	16
K0428.20401	B	40	14,5	18
K0428.20501	B	50	17,5	20

Levelling feet plates ECO-Line

die-cast zinc, stainless steel or plastic

KIPP Levelling feet plates ECO-Line stainless steel

Order No.	Form	D	H	Load rating max. kN
K0428.10302	A	30	11,5	22
K0428.10402	A	40	12	24
K0428.10502	A	50	14,5	26
K0428.20302	B	30	13,5	22
K0428.20402	B	40	14,5	24
K0428.20502	B	50	17,5	26

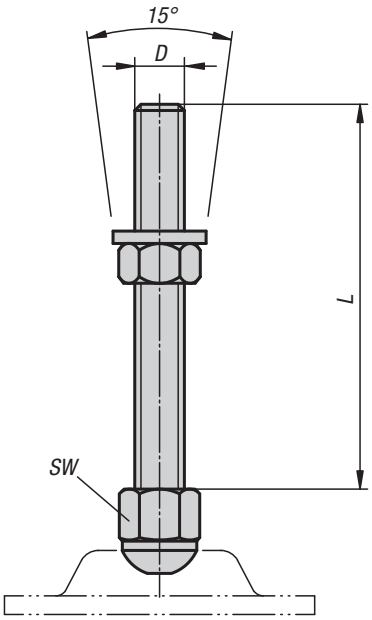
KIPP Levelling feet plates ECO-Line plastic

Order No.	Form	D	H	Load rating max. kN
K0428.10303	A	30	11,5	15
K0428.10403	A	40	12	15
K0428.10503	A	50	14,5	15
K0428.20303	B	30	13,5	15
K0428.20403	B	40	14,5	15
K0428.20503	B	50	17,5	15

Levelling feet threaded spindles

steel or stainless steel





Material:
Steel or stainless steel 1.4301.

Version:
Steel galvanized.
Stainless steel bright.

Sample order:
K0669.080501
K0669.080501 and K0672.10801 **assembled**

Note for ordering:
If the levelling foot plate and the threaded spindle are to be supplied assembled, please add the suffix **"assembled"** to the order number for the plate and spindle.
(e.g. K0669.080501 and K0672.10801 **assembled**).

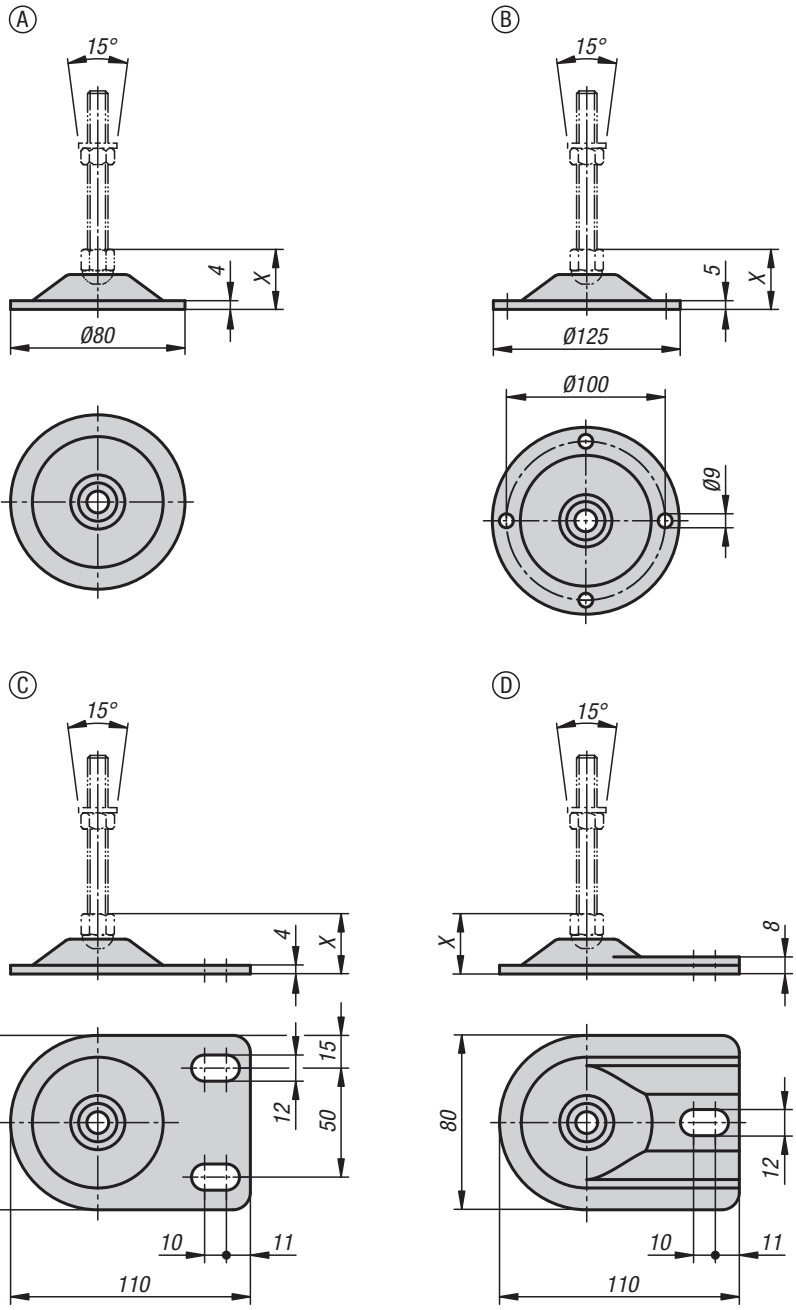
Note:
Levelling feet consist of a plate and a threaded spindle. Any threaded spindle can be combined with any plate.

KIPP Levelling feet threaded spindles steel or stainless steel

Order No. Steel	Order No. Stainless steel	D	L	SW	Load rating max. kN
K0669.080501	K0669.080502	M8	50	17	40
K0669.080801	K0669.080802	M8	80	17	40
K0669.081001	K0669.081002	M8	100	17	40
K0669.081201	K0669.081202	M8	120	17	40
K0669.081501	K0669.081502	M8	150	17	40
K0669.100501	K0669.100502	M10	50	17	40
K0669.100801	K0669.100802	M10	80	17	40
K0669.101001	K0669.101002	M10	100	17	40
K0669.101201	K0669.101202	M10	120	17	40
K0669.101501	K0669.101502	M10	150	17	40
K0669.120501	K0669.120502	M12	50	19	40
K0669.120801	K0669.120802	M12	80	19	40
K0669.121001	K0669.121002	M12	100	19	40
K0669.121201	K0669.121202	M12	120	19	40
K0669.121501	K0669.121502	M12	150	19	40
K0669.160501	K0669.160502	M16	50	24	40
K0669.160801	K0669.160802	M16	80	24	40
K0669.161001	K0669.161002	M16	100	24	40
K0669.161201	K0669.161202	M16	120	24	40
K0669.161501	K0669.161502	M16	150	24	40
K0669.200501	K0669.200502	M20	50	30	40
K0669.200801	K0669.200802	M20	80	30	40
K0669.201001	K0669.201002	M20	100	30	40
K0669.201201	K0669.201202	M20	120	30	40
K0669.201501	K0669.201502	M20	150	30	40

Levelling feet plates

steel or stainless steel





Material:
Plate steel or stainless steel 1.4301.

Version:
Steel chrome-plated.
Stainless steel Form A and B polished.
Stainless steel Form C and D glass-bead blasted.

Sample order:
K0672.10801 K0672.10801 and K0669.080501 **assembled**

Note for ordering:
If the levelling foot plate and the threaded spindle are to be supplied assembled, please add the suffix **"assembled"** to the order number for the plate and spindle
(e.g. K0672.10801 and K0669.080501 **assembled**).

Note:
Levelling feet consist of a plate and a threaded spindle. Any plate can be combined with any threaded spindle.
For matching threaded spindles, see K0669.

Drawing reference:
1) X with spindle size:

①

A, C, D: M8/M10 = 31 mm
M12 = 32 mm
M16 = 36 mm
M20 = 39 mm

B: M8/M10 = 46 mm
M12 = 48 mm
M16 = 51 mm
M20 = 54 mm

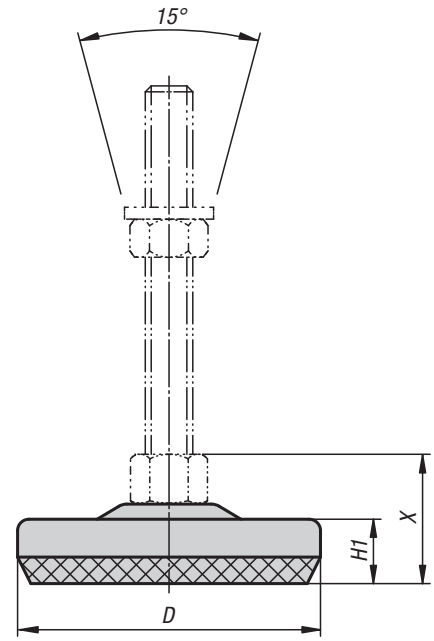
KIPP Levelling feet plates steel or stainless steel

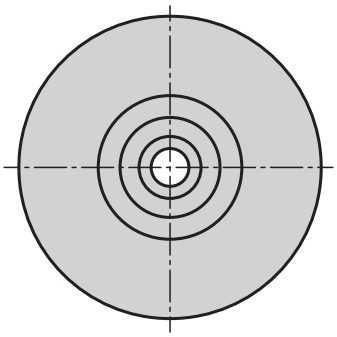
Order No. Steel	Order No. Stainless steel	Form	Load rating max. kN
K0672.10801	K0672.10802	A	20
K0672.21251	K0672.21252	B	40
K0672.30801	K0672.30802	C	20
K0672.40801	K0672.40802	D	20

Levelling feet plates with rubber base

steel or stainless steel







D = 80 :

①
M8/M10 = 37 mm
M12 = 38 mm
M16 = 42 mm
M20 = 45 mm

D = 100 :

①
M8/M10 = 39 mm
M12 = 40 mm
M16 = 44 mm
M20 = 47 mm

Material:
Plate steel or stainless steel 1.4301.
Rubber base NBR, 70 Shore A.

Version:
Steel chromed.
Stainless steel polished.

Sample order:
K0673.10801
K0673.10801 and K0669.080501 **assembled**

Note for ordering:
If the levelling foot plate and the threaded spindle are to be supplied assembled, please add the suffix **"assembled"** to the order number for the plate and spindle
(e.g. K0673.10801 and K0669.080501 **assembled**).

Note:
Levelling feet consist of a plate and a threaded spindle. Any plate can be combined with any threaded spindle. For matching threaded spindles see K0669.

Drawing reference:
1) X with spindle size:

KIPP Levelling feet plates with rubber base steel or stainless steel

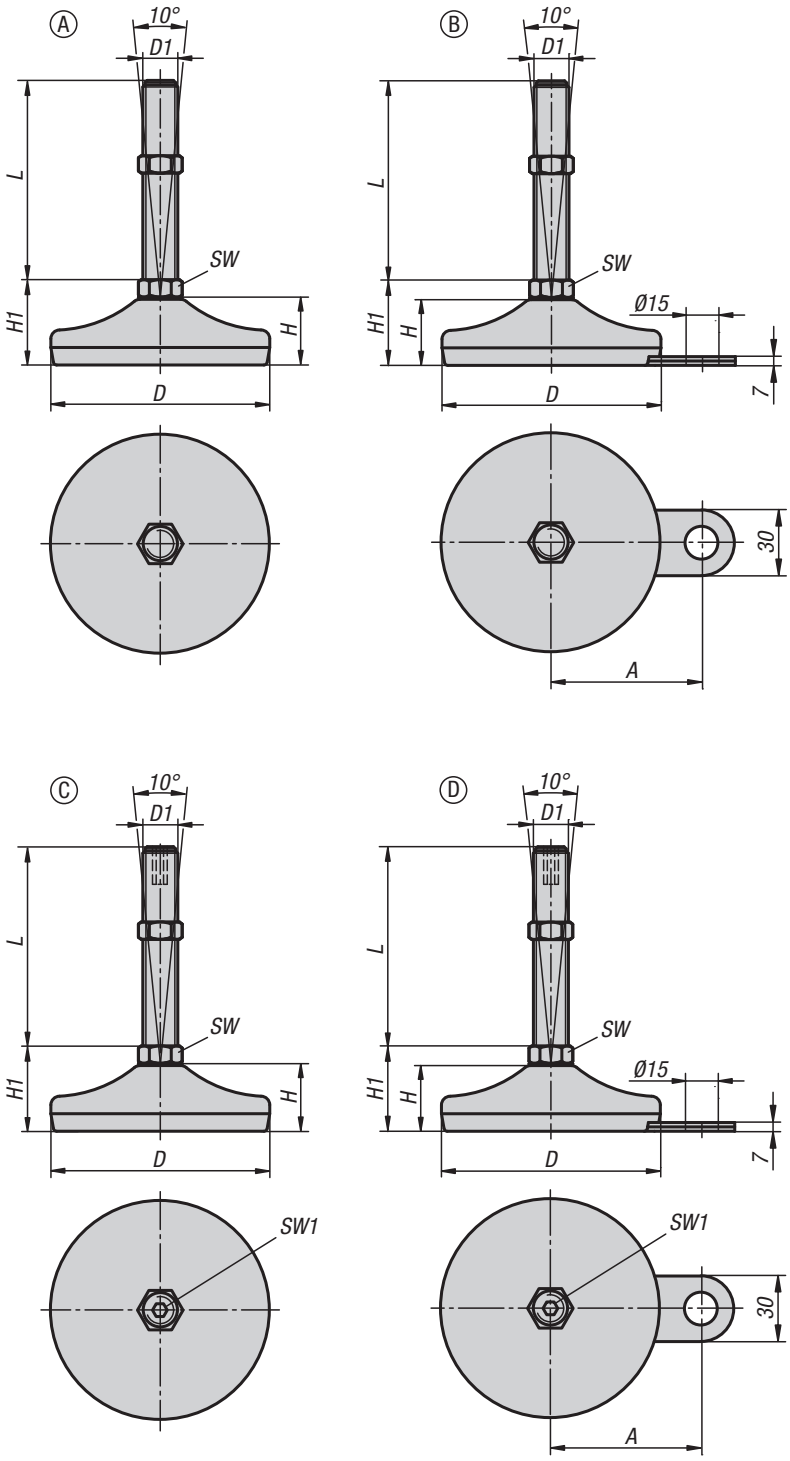
Order No. Steel	Order No. Stainless steel	D	H1	Load rating max. kN
K0673.10801	**K0673.10802**	80	17	8,5
K0673.11001	**K0673.11002**	100	19	20

Notes

Levelling feet

steel or stainless steel





Material:
Foot plate and threaded spindle steel or stainless steel.
Rubber support (NBR) 80 Shore.

Version:
Foot plate, galvanized or polished.
Threaded spindle, galvanized or bright.
Rubber support, vulcanised, black.

Sample order:
K0739.1108010X50
(include length L)

Note:
Levelling feet steel or stainless steel with pivoting threaded spindle and rubber base. The solid rubber base is permanently vulcanised to the sheet metal plate. The rubber base has an excellent surface grip. It is sound damping and impedes transmission of vibrations and impacts to the floor.

The load values specified in the table are based on a test series, in which a static load was applied perpendicular to the plates through the centre of the spindle. Radially acting forces such as those produced by vibrations or other shaking effects, affect the load rating and are not taken into account for the specified values.

For stainless steel feet from spindle size M16, the wrench sizes apply across two flats.

Supplied with matching nut.

KIPP Form A

Order No.	Form	Main material	D	D1	H	H1	SW	L	Load rating max. kN
K0739.1105010X	A	steel	50	M10	19	29	14	50/100	4
K0739.1105012X	A	steel	50	M12	19	29	14	50/100/150	4
K0739.1106010X	A	steel	60	M10	22	32	14	50/100	7
K0739.1106012X	A	steel	60	M12	22	32	14	50/100/150	7
K0739.1108010X	A	steel	80	M10	25	35	14	50/100	10
K0739.1108012X	A	steel	80	M12	25	35	14	50/100/150	10
K0739.1108014X	A	steel	80	M14	25	35	14	50/100/150	10
K0739.1108016X	A	steel	80	M16	25	35	16	100/150	10
K0739.1108020X	A	steel	80	M20	25	36	20	75/100/150/200	10
K0739.1110020X	A	steel	100	M20	28	38,5	20	75/100/150/200/250	15
K0739.1110024X	A	steel	100	M24	28	38,5	24	100/150/200/250	15
K0739.1112020X	A	steel	120	M20	32	42,5	20	100/150/200	30
K0739.1112024X	A	steel	120	M24	32	42,5	24	100/150/200	30
K0739.1112030X	A	steel	120	M30	32	43,5	30	100/150/200	30
K0739.1205010X	A	stainless steel	50	M10	19	29	14	50/100	4
K0739.1205012X	A	stainless steel	50	M12	19	29	14	50/100/150	4
K0739.1206010X	A	stainless steel	60	M10	22	32	14	50/100	7
K0739.1206012X	A	stainless steel	60	M12	22	32	14	50/100/150	7
K0739.1208010X	A	stainless steel	80	M10	25	35	14	50/75/100/125	10
K0739.1208012X	A	stainless steel	80	M12	25	35	14	50/75/100/125/150	10
K0739.1208014X	A	stainless steel	80	M14	25	35	14	75/100/125/150/175	10
K0739.1208016X	A	stainless steel	80	M16	25	35	13	75/100/125/150/175	10
K0739.1208020X	A	stainless steel	80	M20	25	38	17	75/100/125/150/175/200/225	10
K0739.1210020X	A	stainless steel	100	M20	30	43	17	75/100/125/150/175/200	15
K0739.1210024X	A	stainless steel	100	M24	30	44	20	100/125/150/175/200	15
K0739.1212020X	A	stainless steel	120	M20	32	43	17	100/150/200	30
K0739.1212024X	A	stainless steel	120	M24	32	44	20	100/150/200	30
K0739.1212030X	A	stainless steel	120	M30	32	47	26	100/150/200	30

KIPP Form B with fastening tab

Order No.	Form	Main material	A	D	D1	H	H1	SW	L	Load rating max. kN
K0739.2106010X	B	steel	45	60	M10	22	32	14	50/100	7
K0739.2106012X	B	steel	45	60	M12	22	32	14	50/100/150	7
K0739.2108010X	B	steel	54	80	M10	25	35	14	50/100	10
K0739.2108012X	B	steel	54	80	M12	25	35	14	50/100/150	10
K0739.2108014X	B	steel	54	80	M14	25	35	14	50/100/150	10
K0739.2108016X	B	steel	54	80	M16	25	35	16	100/150	10
K0739.2108020X	B	steel	54	80	M20	25	36	20	75/100/150/200	10
K0739.2110020X	B	steel	69	100	M20	28	38,5	20	75/100/150/200/250	15
K0739.2110024X	B	steel	69	100	M24	28	38,5	24	100/150/200/250	15
K0739.2206010X	B	stainless steel	45	60	M10	22	32	14	50/100	7
K0739.2206012X	B	stainless steel	45	60	M12	22	32	14	50/100/150	7
K0739.2208010X	B	stainless steel	54	80	M10	25	35	14	50/75/100/125	10
K0739.2208012X	B	stainless steel	54	80	M12	25	35	14	50/75/100/125/150	10
K0739.2208014X	B	stainless steel	54	80	M14	25	35	14	75/100/125/150/175	10
K0739.2208016X	B	stainless steel	54	80	M16	25	35	13	75/100/125/150/175	10
K0739.2208020X	B	stainless steel	54	80	M20	25	38	17	75/100/125/150/175/200/225	10
K0739.2210020X	B	stainless steel	69	100	M20	30	43	17	75/100/125/150/175/200	15
K0739.2210024X	B	stainless steel	69	100	M24	30	44	20	100/125/150/175/200	15

Levelling feet

steel or stainless steel

KIPP Form C with hexagon socket

Order No.	Form	Main material	D	D1	H	H1	SW	L	Load rating max. kN
K0739.3105010X	C	steel	50	M10	19	29	14	50	4
K0739.3105012X	C	steel	50	M12	19	29	14	50/100	4
K0739.3105016X	C	steel	50	M16	19	29	16	75/100/150	4
K0739.3106010X	C	steel	60	M10	22	32	14	50	7
K0739.3106012X	C	steel	60	M12	22	32	14	50/100	7
K0739.3106016X	C	steel	60	M16	22	33	16	75/100/150	7
K0739.3108016X	C	steel	80	M16	25	35	16	100/150	10
K0739.3108020X	C	steel	80	M20	25	36	20	75	10
K0739.3110020X	C	steel	100	M20	28	38,5	20	100/150	15
K0739.3110024X	C	steel	100	M24	28	38,5	24	200	15
K0739.3112020X	C	steel	120	M20	32	42,5	20	100/150/200	30
K0739.3112024X	C	steel	120	M24	32	42,5	24	100/150/200	30
K0739.3112030X	C	steel	120	M30	32	43,5	30	100/150/200	30
K0739.3205010X	C	stainless steel	50	M10	19	29	14	50	4
K0739.3205012X	C	stainless steel	50	M12	19	29	14	50/100	4
K0739.3205016X	C	stainless steel	50	M16	19	29	16	75/100/150/200	4
K0739.3206010X	C	stainless steel	60	M10	22	32	14	50	7
K0739.3206012X	C	stainless steel	60	M12	22	32	14	50/100	7
K0739.3206016X	C	stainless steel	60	M16	22	33	16	75/100/150/200	7
K0739.3208016X	C	stainless steel	80	M16	25	35	13	75/100/125/150/175	10
K0739.3208020X	C	stainless steel	80	M20	25	38	17	75/200	10
K0739.3210020X	C	stainless steel	100	M20	30	43	17	150	15
K0739.3212020X	C	stainless steel	120	M20	32	43	17	100/150/200	30
K0739.3212024X	C	stainless steel	120	M24	32	45	20	100/150/200	30
K0739.3212030X	C	stainless steel	120	M30	32	47	26	100/150/200	30

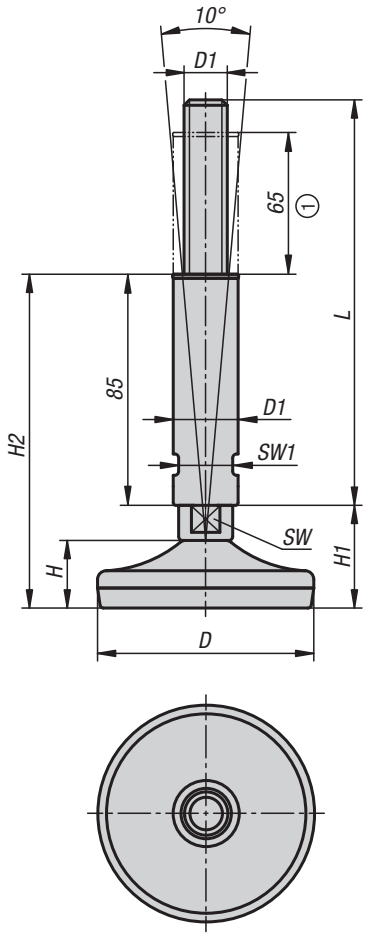
KIPP Form D with hexagon socket and fastening tab

Order No.	Form	Main material	A	D	D1	H	H1	SW	SW1	L	Load rating max. kN
K0739.4106010X	D	steel	45	60	M10	22	32	14	5	50	7
K0739.4106012X	D	steel	45	60	M12	22	32	14	6	50/100	7
K0739.4106016X	D	steel	45	60	M16	22	33	16	8	75/100/150/200	7
K0739.4206010X	D	stainless steel	45	60	M10	22	32	14	5	50	7
K0739.4206012X	D	stainless steel	45	60	M12	22	32	14	6	50/100	7
K0739.4206016X	D	stainless steel	45	60	M16	22	33	16	8	75/100/150/200	7

Levelling feet

stainless steel for sterile areas





Material:
Stainless steel foot plate 1.4301.
Stainless steel threaded spindle 1.4301.
Rubber base and rubber seal (EPDM).

Version:
Foot plate, polished.
Threaded spindle, bright.
Rubber base black.
Rubber seal black.

Sample order:
K0741.08016X143

Note:
The levelling foot has an adjustment sleeve which covers the part of the thread. An O-ring is inserted inside the sleeve to prevent dirt from entering.

EPDM complies with the guidelines specified in the USDA documentation for rubber products.

The stainless steel levelling feet for sterile areas received the Equipment Acceptance Certificate of the USDA (US-Department of Agriculture).

The load values specified in the table are based on a test series in which a static load was applied perpendicular to the plates through the centre of the spindle. Radially acting forces such as those produced by vibrations or other shaking effects, affect the load rating and are not taken into account for the specified values.

Drawing reference:
1) Adjustment range

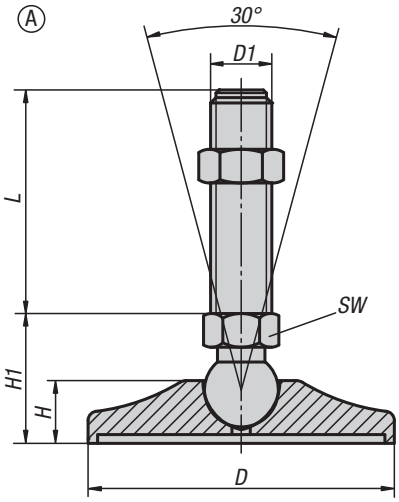
KIPP Levelling feet stainless steel for sterile areas

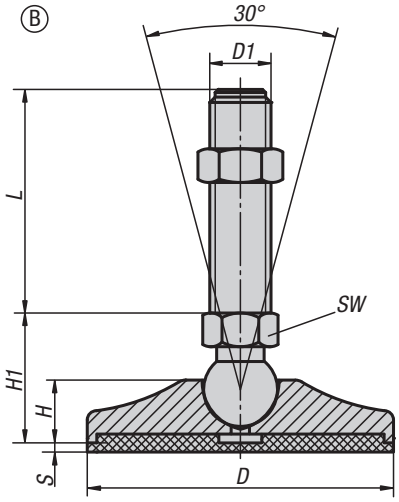
Order No.	D	D1	D2	H	H1	H2	SW	SW1	L	Load rating max. kN
K0741.08016X143	80	M16	24	25	38	123	17	20	150	10
K0741.08020X143	80	M20	30	25	38	123	17	26	150	10
K0741.10016X144	100	M16	24	30	43	128	17	20	150	15
K0741.10020X144	100	M20	30	30	43	128	17	26	150	15
K0741.10024X144	100	M24	35	30	44	129	20	30	150	15
K0741.12016X144	120	M16	24	32	45	130	17	20	150	30
K0741.12020X144	120	M20	30	32	45	130	17	26	150	30
K0741.12024X144	120	M24	35	32	46	131	20	30	150	30

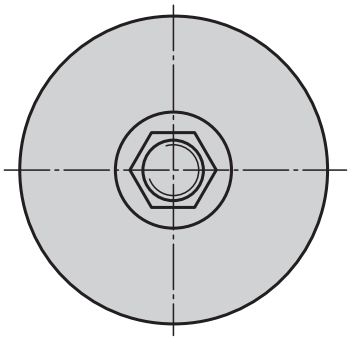
Swivel feet

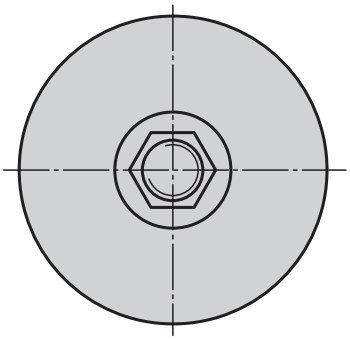
steel











Material:
Foot plate and threaded spindle steel.
Anti-slip plate (NBR) 70 Shore.

Version:
Foot plate painted yellow.
Threaded spindle, galvanized.
Anti-slip plate black.

Sample order:
K0742.005010X25
(include length L)

Note:
High load rated steel swivel feet with yellow painted plate, optional with an anti-slip plate. The anti-slip plate absorbs vibrations and prevents the swivel foot slipping.

The load values specified in the table are based on a test series, in which a static load was applied perpendicular to the plates through the centre of the spindle. Radially acting forces such as those produced by vibrations or other shaking effects, affect the load rating and are not taken into account for the specified values.

Supplied with matching nut.

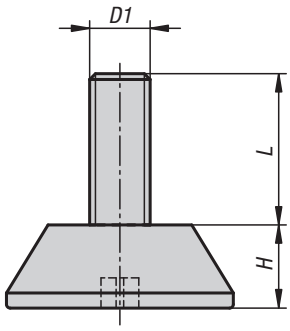
Drawing reference:
Form A without anti-slip plate
Form B with anti-slip plate

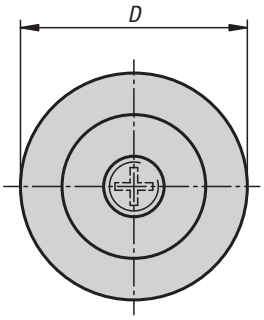
KIPP Swivel feet, steel

Order No. Form A	Order No. Form B	D	D1	H	H1	S	SW	L	Load rating max. kN
K0742.005010X	K0742.105010X	50	M10	16	28	-/3	14	25/50/75/100/125	15
K0742.005012X	K0742.105012X	50	M12	16	28	-/3	14	25/50/75/100/125	15
K0742.005014X	K0742.105014X	50	M14	16	28	-/3	14	25/50/75/100/125	15
K0742.006514X	K0742.106514X	65	M14	17	30	-/3	14	50/75/100/125/150	20
K0742.006516X	K0742.106516X	65	M16	17	30	-/3	16	50/75/100/125/150/175	20
K0742.008016X	K0742.108016X	80	M16	19,5	33	-/3	16	50/75/100/125/150/175/200	30
K0742.008020X	K0742.108020X	80	M20	19,5	36	-/3	17	75/100/125/150/175/200	30
K0742.010016X	K0742.110016X	100	M16	20	43	-/3	20	50/75/100/125/150/175/200	35
K0742.010020X	K0742.110020X	100	M20	20	43	-/3	20	75/100/125/150/175/200	45
K0742.010024X	K0742.110024X	100	M24	20	44	-/3	20	75/100/125/150/175/200	55

Levelling feet round







Material:
Polyamide.
Screw, steel.

Version:
Black.
Galvanized screw.

Sample order:
K0674.3006X020
(include length L)

Note:
Levelling feet with cross slot in the base as assembly aid.
Rigid version.

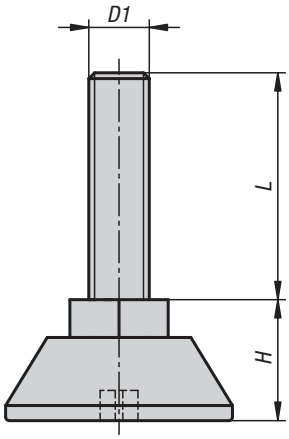
KIPP Levelling feet round

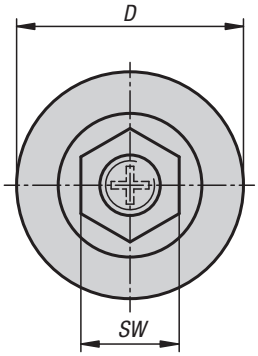
Order No.	D	D1	H	L	Load rating max. kN (static load only)
K0674.3006X	30	M6	11	20/30	3
K0674.3008X	30	M8	11	16/20/25/30/40	3
K0674.3010X	30	M10	11	25/30/35	3
K0674.4708X	47	M8	11	16/20/30/40	4
K0674.4710X	47	M10	11	20/30/55	4

Levelling feet round

with hex. collar







Material:
Polyamide.
Screw, steel.

Version:
Black.
Galvanized screw.

Sample order:
K0675.3006X020
(include length L)

Note:
Levelling feet with hexagonal collar and cross slot in the base as assembly aid. Rigid version.

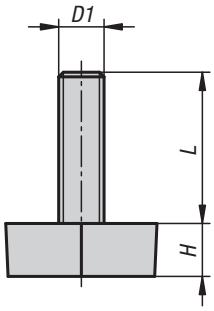
KIPP Levelling feet round with hex. collar

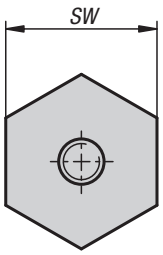
Order No.	D	D1	H	SW	L	Load rating max. kN (static load only)
K0675.3006X	30	M6	16	13	20/30	3
K0675.3008X	30	M8	16	13	15/20/25/30/40	3
K0675.4708X	47	M8	16	13	15/20/30/40	4
K0675.4710X	47	M10	16	17	20/30	4

Levelling feet

with hex. base







Material:
Polyethylene.
Screw, steel.

Version:
Black.
Galvanized screw.

Sample order:
K0676.2006X020
(include length L)

Note:
Levelling feet with hexagonal base.
Rigid version.

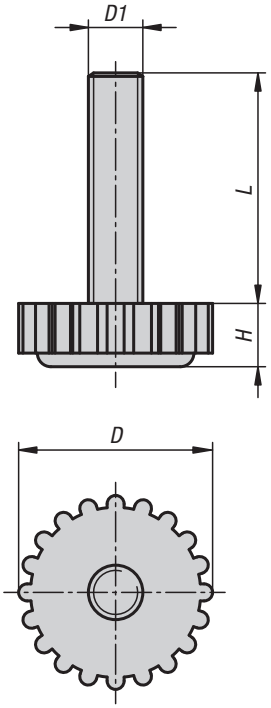
KIPP Levelling feet with hex. base

Order No.	D1	H	SW	L	Load rating max. kN (static load only)
K0676.2006X	M6	7	20	20/30/40/50	1,5
K0676.2008X	M8	7	20	20/30/40/50	3
K0676.2506X	M6	7,5	25	20/30/40/50	1,5
K0676.2508X	M8	7,5	25	20/30/40/50	3
K0676.2510X	M10	7,5	25	20/30	4
K0676.3008X	M8	8	30	20/30/40/50	3
K0676.3010X	M10	8	30	20/30	3

Levelling feet

with knurled base





Material:
Polyamide.
Screw, steel.

Version:
Black.
Galvanized screw.

Sample order:
K0677.2805X016
(include length L)

Note:
Levelling feet with knurled base.
Rigid version.

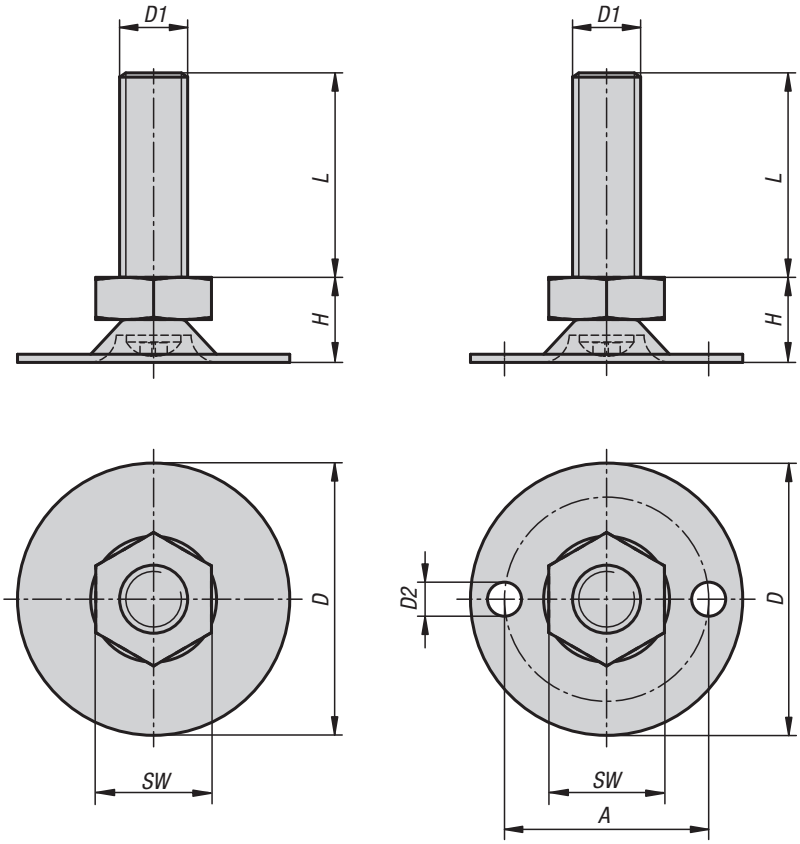
KIPP Levelling feet with knurled base

Order No.	D	D1	H	L	Load rating max. kN (static load only)
K0677.2805X	28,5	M5	9,3	16/20/25/40	2
K0677.2806X	28,5	M6	9,3	16/20/30/40/50	3,5
K0677.2808X	28,5	M8	9,3	16/20/30/40/50/60/80	4,5

Notes

Levelling feet





Material:
Foot plate and threaded spindle in steel.

Version:
Foot plate and threaded spindle, galvanized.

Sample order:
K0678.03008X016
(include length L)

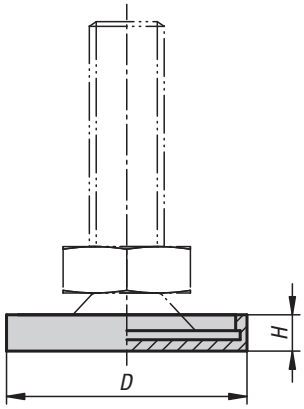
Note:
The threaded spindle is pressed into the rotatable base.

KIPP Levelling feet

Order No. without hole	Order No. with hole	A	D	D1	D2	H	SW	L	Load rating max. kN (static load only)
K0678.03008X	**K0678.13008X**	-/24,3	30	M8	-/4	11	13	16/20/30/40/50	2,5
K0678.03010X	**K0678.13010X**	-/24,3	30	M10	-/4	12,5	17	16/20/30/40/50/60	3,5
K0678.04008X	**K0678.14008X**	-/30	40	M8	-/5	11	13	16/20/30/40/50	2,5
K0678.04010X	**K0678.14010X**	-/30	40	M10	-/5	11	17	16/20/30/40/50/60	3,5
K0678.05008X	**K0678.15008X**	-/35	50	M8	-/5,5	12,5	13	16/20/30/40/50	2,5
K0678.05010X	**K0678.15010X**	-/35	50	M10	-/5,5	14	17	16/20/30/40/50/60	3,5
K0678.06008X	**K0678.16008X**	-/46	60	M8	-/5,5	13,5	13	16/20/30/40/50	2,5
K0678.06010X	**K0678.16010X**	-/46	60	M10	-/5,5	15	17	16/20/30/40/50/60	3,5

Levelling feet caps





Material:
Polyethylene

Version:
black.

Sample order:
K0679.1030

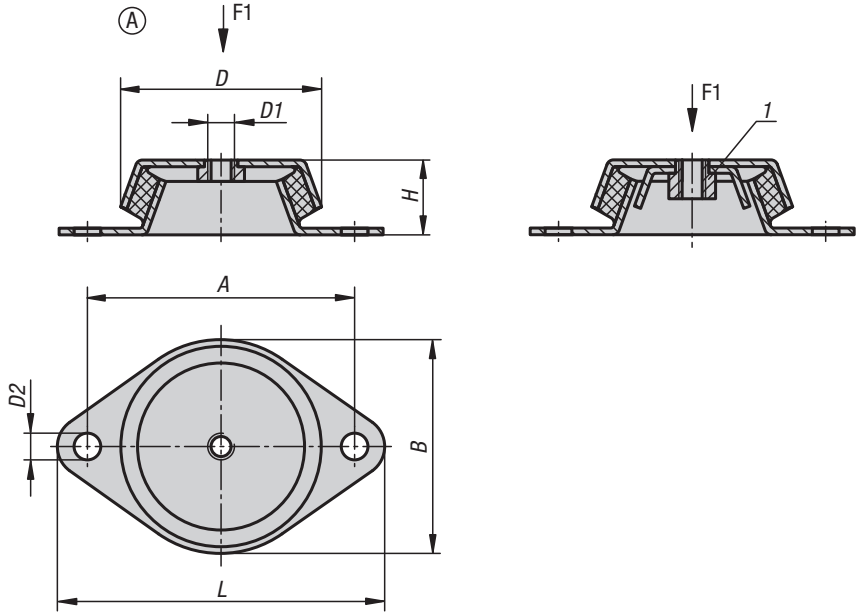
Note:
The caps protect the surface against scratch marks.

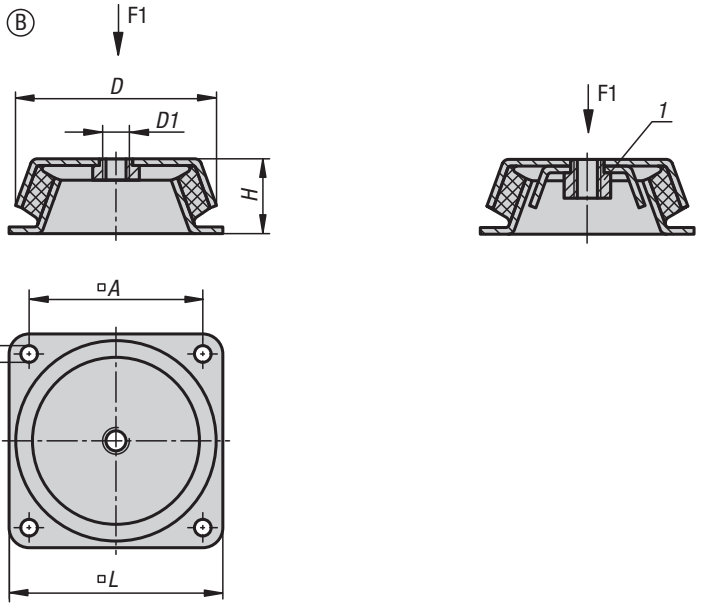
KIPP Levelling feet caps

Order No.	for foot plate Ø	D	H
K0679.1030	30	31,8	4,8
K0679.1060	60	62	6,8

Machine feet







Material:
Metal parts, steel grade 5.6.
Elastomer, natural rubber,
medium hardness, Shore 60.

Version:
Steel galvanized.

Sample order:
K0687.062060

Note:
These machine feet have proven themselves to be universally applicable elements for the elastic support of all types of machine. They are commonly used wherever large horizontal movements are to be avoided. The horizontal rigidity is higher in all directions than the vertical rigidity. If used correctly they are excellent at preventing the transfer of vibration and noise.

Machine feet with shear protection are available for situations where tensile forces are to be expected.

The indicated load data are reference values for static loads by rubber hardness of Shore 60A.

On request:
Rubber hardness Shore 40 or 70 A.

Drawing reference:
1) With shear protection

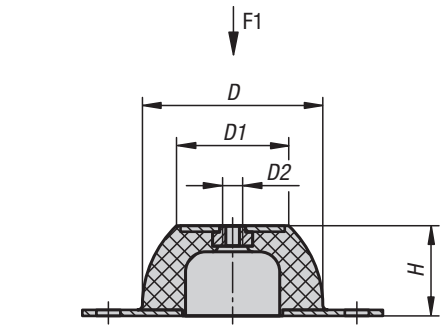
KIPP Machine feet

Order No. without shear protection	Order No. with shear protection	Form	A	B	D	D1	D2	H	L	F1 (N)
K0687.062060	**K0687.062160**	A	85	66	62	M10	8,2	30	110	1500
K0687.078060	**K0687.078160**	A	110	78	78	M10	9	30	128	1800
K0687.092060	**K0687.092160**	A	110	96	86	M12	10,2	45	140	3000
K0687.106060	**K0687.106160**	A	140	110	106	M12	12,4	39	170	3600
K0687.150060	**K0687.150160**	B	132	-	150	M16	12,5	51	168	8000

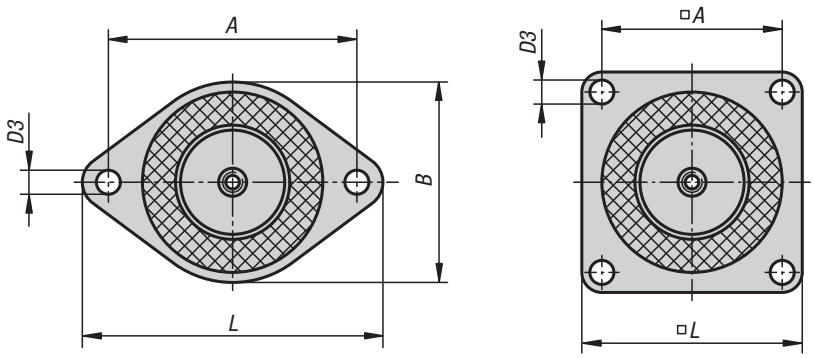
Cup elements

type H2





K0686.13006360
K0686.18008560



Material:
Metal parts, steel, grade 5.6.
Natural rubber, hardness Shore 40 or 60 A.

Version:
Steel galvanized.

Sample order:
K0686.03502040

Note:
The cup elements are highly elastic both in radial and in axial direction and therefore offer an outstanding impact isolation.
The special shaping of the cup elements allows isolation of sound and vibrations of machines and assemblies with a low natural frequency. They are especially suitable for supporting sensitive instruments and small devices.

The elements must not be subjected to tensile stress.

Temperature range:
-30°C to +80°C.

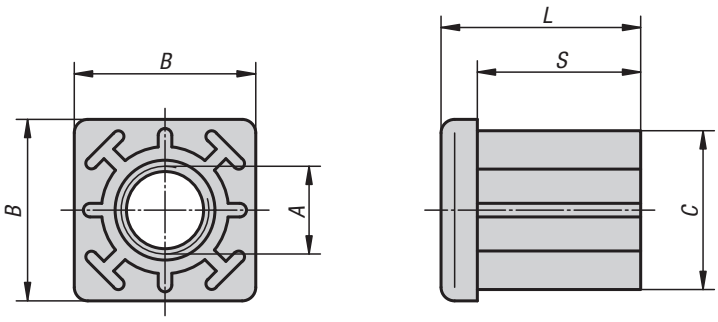
KIPP Cup elements type H2

Order No.	Version	A	B	D	D1	D2	D3	H	L	F1 (N)
K0686.03502040	hardness Shore 40A	50	43	35	18	M6	7	20	64	34
K0686.05002540	hardness Shore 40A	66	56	50	33	M8	8	25	85	200
K0686.07003540	hardness Shore 40A	92	76	70	45	M10	10	35	114	390
K0686.08504040	hardness Shore 40A	110	96	85	53	M10	11,5	40	136	680
K0686.09004540	hardness Shore 40A	124	101	90	58	M10	11,5	45	151	1280
K0686.13006340	hardness Shore 40A	120	-	130	78	M12	14,5	63	150	2700
K0686.18008540	hardness Shore 40A	160	-	180	100	M16	14,5	85	200	3700
K0686.03502060	hardness Shore 60A	50	43	35	18	M6	7	20	64	90
K0686.05002560	hardness Shore 60A	66	56	50	33	M8	8	25	85	490
K0686.07003560	hardness Shore 60A	92	76	70	45	M10	10	35	114	780
K0686.08504060	hardness Shore 60A	110	96	85	53	M10	11,5	40	136	1450
K0686.09004560	hardness Shore 60A	124	101	90	58	M10	11,5	45	151	2150
K0686.13006360	hardness Shore 60A	120	-	130	78	M12	14,5	63	150	4900
K0686.18008560	hardness Shore 60A	160	-	180	100	M16	14,5	85	200	7350

Tube inserts square

with tapped bush





Material:
Body fibreglass reinforced thermoplastic.
Threaded insert brass.

Version:
Insert black.
Tapped bush nickel-plated.

Sample order:
K0430.103015

Note:
Threaded square inserts for attaching levelling feet, swivel feet and castors to square tubes.

KIPP Tube inserts square with tapped bush

Order No.	A	B	C	L	S	Suitable for square tubes	Load rating max. kN
K0430.103015	M10	30	27,5	33	27	30 x 1,5	5
K0430.123015	M12	30	27,5	33	27	30 x 1,5	5
K0430.143015	M14	30	27,5	33	27	30 x 1,5	5
K0430.163015	M16	30	27,5	33	27	30 x 1,5	5
K0430.103020	M10	30	26,5	33	27	30 x 2	5
K0430.123020	M12	30	26,5	33	27	30 x 2	5
K0430.143020	M14	30	26,5	33	27	30 x 2	5
K0430.163020	M16	30	26,5	33	27	30 x 2	5
K0430.104015	M10	40	37,5	43	35	40 x 1,5	8
K0430.124015	M12	40	37,5	43	35	40 x 1,5	8
K0430.144015	M14	40	37,5	43	35	40 x 1,5	8
K0430.164015	M16	40	37,5	43	35	40 x 1,5	8
K0430.204015	M20	40	37,5	43	35	40 x 1,5	8
K0430.104020	M10	40	36,5	43	35	40 x 2	10
K0430.124020	M12	40	36,5	43	35	40 x 2	10
K0430.144020	M14	40	36,5	43	35	40 x 2	10
K0430.164020	M16	40	36,5	43	35	40 x 2	10
K0430.204020	M20	40	36,5	43	35	40 x 2	10
K0430.104025	M10	40	35,5	43	35	40 x 2,5	10
K0430.124025	M12	40	35,5	43	35	40 x 2,5	10
K0430.144025	M14	40	35,5	43	35	40 x 2,5	10
K0430.164025	M16	40	35,5	43	35	40 x 2,5	10
K0430.204025	M20	40	35,5	43	35	40 x 2,5	10
K0430.104030	M10	40	34,5	43	35	40 x 3	10
K0430.124030	M12	40	34,5	43	35	40 x 3	10
K0430.144030	M14	40	34,5	43	35	40 x 3	10
K0430.164030	M16	40	34,5	43	35	40 x 3	10
K0430.204030	M20	40	34,5	43	35	40 x 3	10

Tube inserts square

with tapped bush



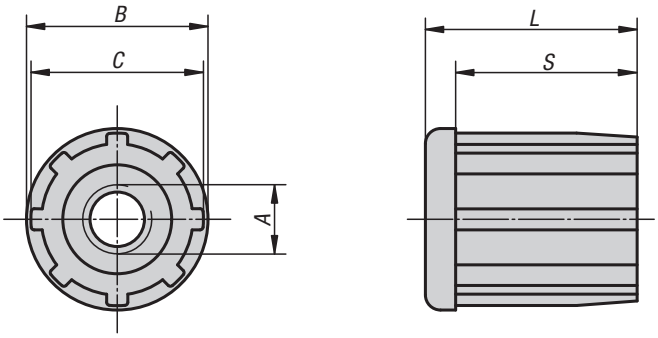
KIPP Tube inserts square with tapped bush

Order No.	A	B	C	L	S	Suitable for square tubes	Load rating max. kN
K0430.104040	M10	40	32,5	43	35	40 x 4	10
K0430.124040	M12	40	32,5	43	35	40 x 4	10
K0430.144040	M14	40	32,5	43	35	40 x 4	10
K0430.164040	M16	40	32,5	43	35	40 x 4	10
K0430.204040	M20	40	32,5	43	35	40 x 4	10
K0430.125015	M12	50	47,5	55	44	50 x 1,5	8
K0430.145015	M14	50	47,5	55	44	50 x 1,5	8
K0430.165015	M16	50	47,5	55	44	50 x 1,5	8
K0430.205015	M20	50	47,5	55	44	50 x 1,5	8
K0430.125020	M12	50	46,5	55	44	50 x 2	12
K0430.145020	M14	50	46,5	55	44	50 x 2	12
K0430.165020	M16	50	46,5	55	44	50 x 2	12
K0430.205020	M20	50	46,5	55	44	50 x 2	12
K0430.125025	M12	50	45,5	55	44	50 x 2,5	12
K0430.145025	M14	50	45,5	55	44	50 x 2,5	12
K0430.165025	M16	50	45,5	55	44	50 x 2,5	12
K0430.205025	M20	50	45,5	55	44	50 x 2,5	12
K0430.125030	M12	50	44,5	55	44	50 x 3	12
K0430.145030	M14	50	44,5	55	44	50 x 3	12
K0430.165030	M16	50	44,5	55	44	50 x 3	12
K0430.205030	M20	50	44,5	55	44	50 x 3	12
K0430.125040	M12	50	42,5	55	44	50 x 4	12
K0430.145040	M14	50	42,5	55	44	50 x 4	12
K0430.165040	M16	50	42,5	55	44	50 x 4	12
K0430.205040	M20	50	42,5	55	44	50 x 4	12
K0430.146020	M14	60	56,5	55	45	60 x 2	12
K0430.166020	M16	60	56,5	55	45	60 x 2	12
K0430.206020	M20	60	56,5	55	45	60 x 2	12
K0430.146030	M14	60	54,5	55	45	60 x 3	12
K0430.166030	M16	60	54,5	55	45	60 x 3	12
K0430.206030	M20	60	54,5	55	45	60 x 3	12
K0430.146040	M14	60	52,5	55	45	60 x 4	12
K0430.166040	M16	60	52,5	55	45	60 x 4	12
K0430.206040	M20	60	52,5	55	45	60 x 4	12

Tube inserts round

with tapped bush





Material:
Body fibreglass reinforced thermoplastic.
Threaded insert brass.

Version:
Insert black.
Tapped bush nickel-plated.

Sample order:
K0431.103010

Note:
Threaded square inserts for attaching levelling feet, swivel feet and castors to round tubes.

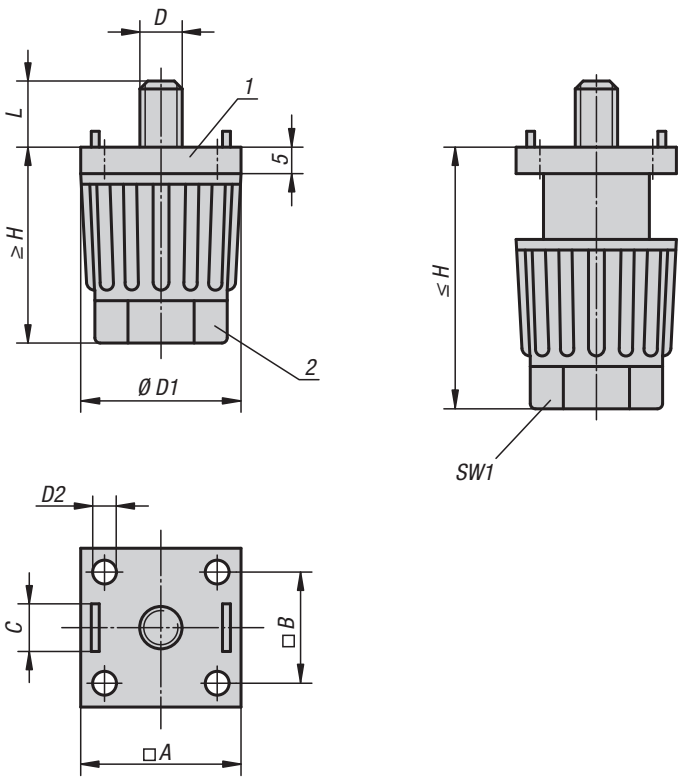
KIPP Tube inserts round with tapped bush

Order No.	A	B	C	L	S	Suitable for tubes	Load rating max. kN
K0431.103010	M10	30	28,4	33	27	Ø 30 x 1	5
K0431.123010	M12	30	28,4	33	27	Ø 30 x 1	5
K0431.143010	M14	30	28,4	33	27	Ø 30 x 1	5
K0431.163010	M16	30	28,4	33	27	Ø 30 x 1	5
K0431.103815	M10	38	35,5	43	35	Ø 38 x 1,5	5
K0431.123815	M12	38	35,5	43	35	Ø 38 x 1,5	5
K0431.143815	M14	38	35,5	43	35	Ø 38 x 1,5	5
K0431.163815	M16	38	35,5	43	35	Ø 38 x 1,5	5
K0431.104215	M10	42	39,9	43	35	Ø 42,4 x 1,5	6
K0431.124215	M12	42	39,9	43	35	Ø 42,4 x 1,5	6
K0431.144215	M14	42	39,9	43	35	Ø 42,4 x 1,5	6
K0431.164215	M16	42	39,9	43	35	Ø 42,4 x 1,5	6
K0431.204215	M20	42	39,9	43	35	Ø 42,4 x 1,5	6
K0431.124815	M12	48	45,8	55	44	Ø 48,3 x 1,5	6
K0431.144815	M14	48	45,8	55	44	Ø 48,3 x 1,5	6
K0431.164815	M16	48	45,8	55	44	Ø 48,3 x 1,5	6
K0431.204815	M20	48	45,8	55	44	Ø 48,3 x 1,5	6
K0431.125015	M12	50	48,4	55	44	Ø 50,9 x 1,5	6
K0431.145015	M14	50	48,4	55	44	Ø 50,9 x 1,5	6
K0431.165015	M16	50	48,4	55	44	Ø 50,9 x 1,5	6
K0431.205015	M20	50	48,4	55	44	Ø 50,9 x 1,5	6

Levelling feet

for aluminium profiles





Material:
Body fibreglass reinforced thermoplastic.
Spindle and washer steel.

Version:
Body black.
Spindle and washer galvanized.

Sample order:
K0432.300806

Note:
These levelling feet are suitable for tables and lighter installations. The foot height is adjusted by turning the base nut by hand or spanner. The pins on the top flange centre the foot and prevent it turning. These levelling feet can be attached to aluminium profiles using T-slot nuts, no need for drilling.

Drawing reference:
1) support flange
2) nut

Side mounted in profile keyway
no drilling required when using a T-slot nut



Profile end mounted

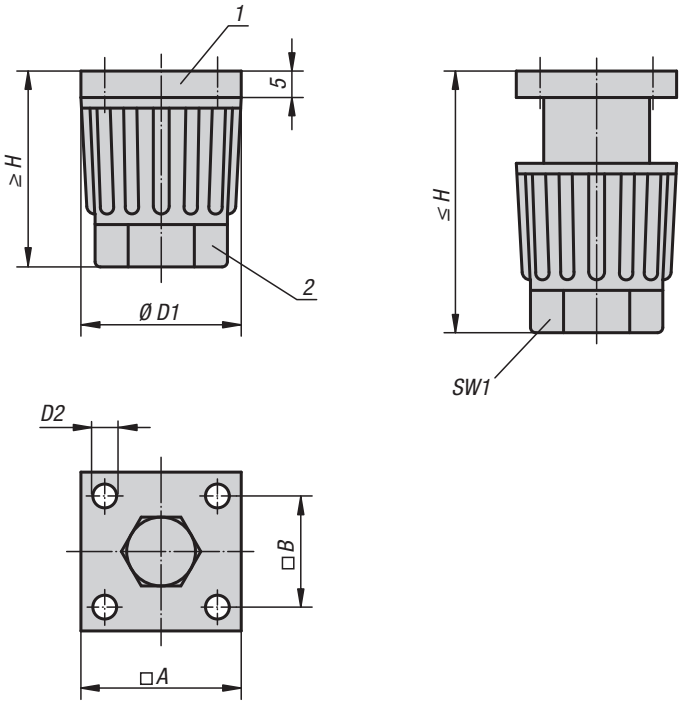


KIPP Levelling feet for aluminium profiles

Order No.	A for aluminium profile	B	C for slot	D	D1	D2 for countersunk screw	H min. - max.	L	SW1	Load rating max. kN
K0432.300806	30	20,5	8	M6	30	M4	35-50	9	22	1,5
K0432.300808	30	20,5	8	M8	30	M4	35-50	9	22	1,5
K0432.301006	30	20,5	10	M6	30	M4	35-50	9	22	1,5
K0432.400808	40	28	8	M8	40	M6	45-65	9	30	1,5
K0432.401006	40	28	10	M6	40	M6	45-65	9	30	1,5
K0432.401008	40	28	10	M8	40	M6	45-65	9	30	1,5

Levelling feet





Material:
Body fibreglass reinforced thermoplastic.
Hexagon head screw steel.

Version:
Body black.
Hexagon head screw galvanized.

Sample order:
K0433.3004

Note:
The flat top flange and sunken screw head make these levelling feet ideal for mounting on smooth surfaces. The foot height is adjusted by turning the base nut by hand or spanner.

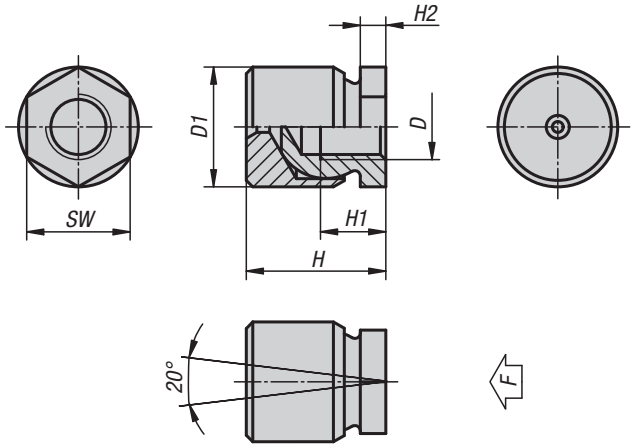
Drawing reference:
1) support flange
2) nut

KIPP Levelling feet

Order No.	A	B	D1	D2 for countersunk screw	H min. - max.	SW1	Load rating max. kN
K0433.3004	30	20,5	30	M4	35-50	22	1,5
K0433.4006	40	28	40	M6	45-65	30	1,5

Swivel thrust pads

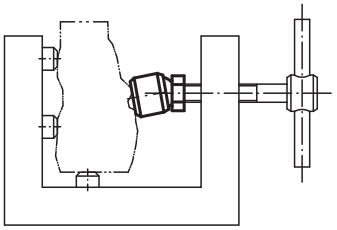




Material:
Ball element case-hardened steel.
Thrust pad mild steel ETG 100.

Version:
Black oxidised.

Sample order:
K0304.10



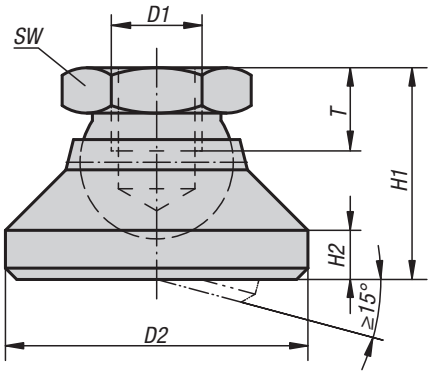
KIPP Swivel feet

Order No.	D	D1	H	H1	H2	SW	F max. N
K0304.05	M5	13	16,5	6,5	4	10	1620
K0304.06	M6	13	16,5	8,5	4	10	2330
K0304.08	M8	16	21	9	4	13	4150
K0304.10	M10	19	23	10	4	17	6480
K0304.12	M12	22	25,5	12	4,7	19	8320
K0304.16	M16	25	29,5	14	5	24	13940
K0304.20	M20	32	36	18	8,5	30	21000

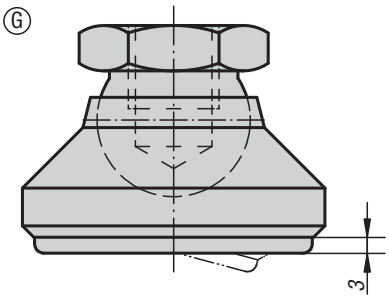
Swivel feet



Ⓐ Ⓑ Ⓒ Ⓓ



Ⓖ



Material:
Form A: Thrust plate carbon steel, ball element free-cutting steel.
Form G: Ball element steel.
Form B: Stainless steel
Form C: Thrust plate POM, ball element free-cutting steel.
Form D: Thrust plate POM, ball element stainless steel

Anti-slip plate thermoplastic elastomer.

Version:
Form A, G: Ball element case-hardened, black oxidised.
Form G: Ball element case hardened, black oxidised with anti-slip plate
Form B: Bright.
Form C: Ball element case-hardened, black oxidised.
Form D: Ball element bright.

Sample order:
K0395.112

Note:
The anti-slip plate absorbs vibrations and prevents the swivel foot slipping.

KIPP Swivel feet

Order No. Form A	Order No. Form B	D1	D2	H1	H2	T	SW	Load rating max. kN (static load only)
K0395.106	**K0395.306**	M6	20	15	2,5	8,5	10	10
K0395.108	**K0395.308**	M8	25	18	4	9	13	18
K0395.110	**K0395.310**	M10	32	22	5	10	17	20
K0395.112	**K0395.312**	M12	40	26	6	12	19	35
K0395.116	**K0395.316**	M16	50	32	7	14	24	45
K0395.120	**K0395.320**	M20	60	42	8	18	30	55

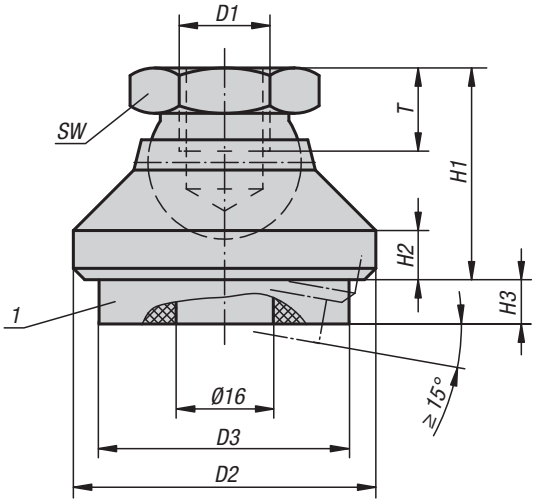
Order No. Form C	Order No. Form D	D1	D2	H1	H2	T	SW	Load rating max. kN (static load only)
K0395.506	**K0395.206**	M6	20	15	2,5	8,5	10	4
K0395.508	**K0395.208**	M8	25	18	4	9	13	7
K0395.510	**K0395.210**	M10	32	22	5	10	17	10
K0395.512	**K0395.212**	M12	40	26	6	12	19	18
K0395.516	**K0395.216**	M16	50	32	7	14	24	20
K0395.520	**K0395.220**	M20	60	42	8	18	30	22

Order No. Form G	D1	D2	H1	H2	T	SW	Load rating max. kN (static load only)
K0395.410	M10	32	22	5	10	17	12
K0395.412	M12	40	26	6	12	19	17
K0395.416	M16	50	32	7	14	24	20
K0395.420	M20	60	42	8	18	30	24

Swivel feet

with vibration absorption





Material:
Steel version:
Thrust plate carbon steel.
Ball element free-cutting steel.
Stainless steel version:
Thrust plate and ball element stainless steel.

Damper plate PUR elastomere (Sylomer V12).

Version:
Steel version:
Thrust plate black oxidised.
Ball element case-hardened, black oxidised.

Stainless steel version:
bright.

Damper plate grey, glued in, anti-slip.
Temp. range -30 °C to +70 °C.

Sample order:
K0420.110

Note:
The load rating given in the table is a recommendation of the permanent static load to which the damping element should be used.
This static load corresponds to a surface pressure of 0.4 N/mm² at which the material achieves its optimum absorption properties. It is taken into account that under dynamic loading an additional load of up to 0.6 N/mm² may occur.
The damper plate absorbs vibrations and prevents the swivel foot slipping.

For swivel feet without vibration absorption see article No. K0395.

Drawing reference:
1) damper plate

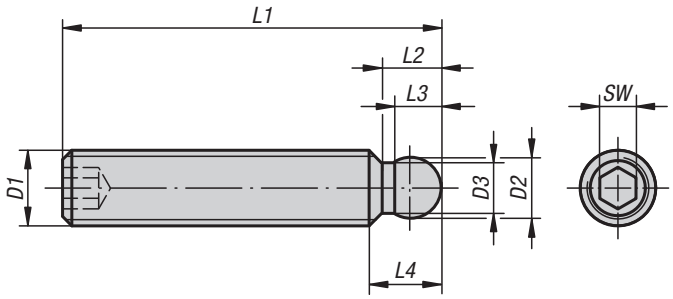
KIPP Swivel feet with vibration absorption

Order No.	Main material	D1	D2	D3	H1	H2	H3 by 0 / 0.4 / 0.6 N/mm²	T	SW	Load rating N (by 0.4 N/mm²)
K0420.110	Steel	M10	32	30,5	22	5	8 / 6,8 / 5,9	10	17	212
K0420.112	Steel	M12	40	30,5	26	6	8 / 6,8 / 5,9	12	19	212
K0420.116	Steel	M16	50	40,5	32	7	8 / 6,8 / 5,9	14	24	435
K0420.120	Steel	M20	60	50	42	8	8 / 6,8 / 5,9	18	30	705
K0420.310	Stainless steel	M10	32	30,5	22	5	8 / 6,8 / 5,9	10	17	212
K0420.312	Stainless steel	M12	40	30,5	26	6	8 / 6,8 / 5,9	12	19	212
K0420.316	Stainless steel	M16	50	40,5	32	7	8 / 6,8 / 5,9	14	24	435
K0420.320	Stainless steel	M20	60	50	42	8	8 / 6,8 / 5,9	18	30	705

Grub screws

with ball thrust point



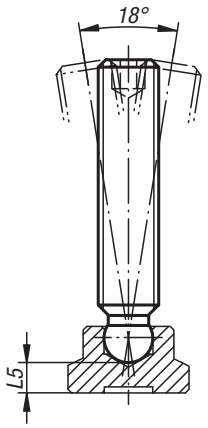


Material:
Grade 5.8.

Version:
Black oxidised.

Sample order:
K0391.06X50 (include length L1.)

Note:
The grub screws are used in conjunction with a thrust pad K0393.

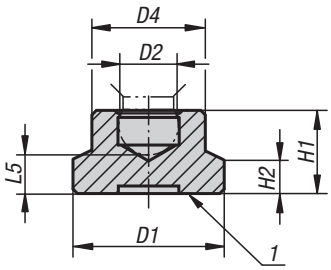


KIPP Grub screws with ball thrust point

Order No.	D1	L1	D2	D3	L2	L3	L4	L5	SW
K0391.06X	M6	30/35/40/50	4,5	3,5	4,3	3,7	5,5	3,8	3
K0391.08X	M8	35/40/45/50/60	6	4,8	5,8	4,8	7,4	4,4	4
K0391.10X	M10	50/55/60/65/80	8	6,5	7,2	6,3	9	5	5
K0391.12X	M12	60/65/70/80	8	6,5	7,2	6,3	9,8	6,9	6

Thrust pads





Material:
Steel.
PA 6 plastic.

Version:
Black oxidised.
Black plastic.

Sample order:
K0393.08

Note:
Suitable for grub screws with ballend pin.

Drawing reference:
1) thrust face



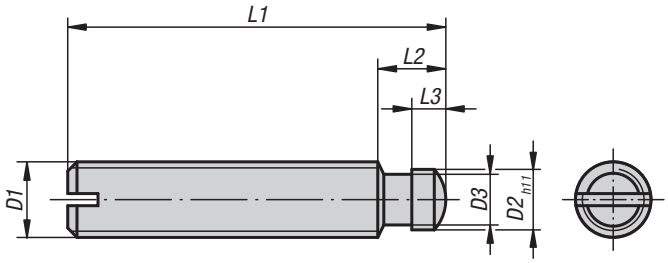
KIPP Thrust pads

Order No.	Form	Main material	D1	D2	D4	H1	H2	L5	Suitable for grub screws
K0393.06	A	Steel	15	4,4	8,6	7,6	2,5	3,8	M6
K0393.08	A	Steel	18	5,9	12	9	3,5	4,4	M8
K0393.10	A	Steel	21	7,9	15	11	4	5	M10
K0393.12	A	Steel	25	7,9	18	13	5	6,9	M12
K0393.206	A	Polyamide	15	4,4	8,6	7,6	2,5	3,8	M6
K0393.208	B	Polyamide	18	5,9	12	9	3,5	4,4	M8
K0393.210	C	Polyamide	21	7,9	15	11	4	5	M10
K0393.212	C	Polyamide	25	7,9	18	13	5	6,9	M12

Grub screws

with thrust point DIN 6332





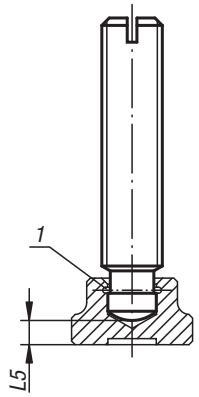
Material:
Steel or stainless steel

Version:
Steel: thrust point case-hardened, black.
Stainless steel: bright.

Sample order:
K0390.12X60 (include length L1.)

Note:
The thrust journal of the grub screws per DIN 6332 is designed for direct clamping as well as for use in conjunction with a thrust pad K0392.

Drawing reference:
1) snap ring



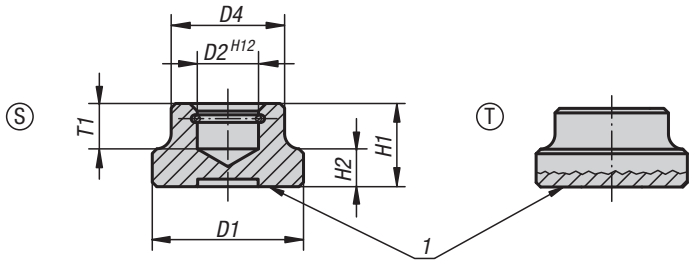
KIPP Grub screws with thrust point DIN 6332

Order No. Steel	Order No. Stainless steel	D1	L1	D2	D3	L2	L3	L5
K0390.06X	**K0390.061X**	M6	30/35/40/50	4,5	4	6	2,5	2,2
K0390.08X	**K0390.081X**	M8	35/40/45/50/60	6	5,4	7,5	3	3
K0390.10X	**K0390.101X**	M10	50/55/60/65/80	8	7,2	9	4,5	3,6
K0390.12X	**K0390.121X**	M12	60/65/70/80/100	8	7,2	10	4,5	4,5
K0390.14X	**K0390.141X**	M14	60/80/100	10	9	12	5	5
K0390.16X	**K0390.161X**	M16	65/70/80/100/125	12	11	12	5	5,3
K0390.20X	**K0390.201X**	M20	80/90/100/125/150	15,5	14,4	14	5,5	5,6

Thrust pads

DIN 6311 enhanced





Material:
Steel: case-hardened. Snap ring spring steel.
Stainless steel: bright. Snap ring stainless steel.

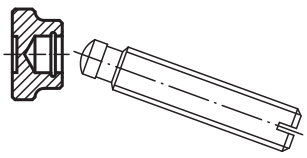
Version:
Steel black oxidised.
Stainless steel bright.

Sample order:
K0392.12

Note:
When fitting the thrust pad, ensure that it is inclined as far as possible in the direction of the snap ring opening. The snap ring is supplied assembled.

Drawing reference:
Form S: thrust pad with snap ring
Form T: low design, large clamping surface with snap ring

1) thrust face

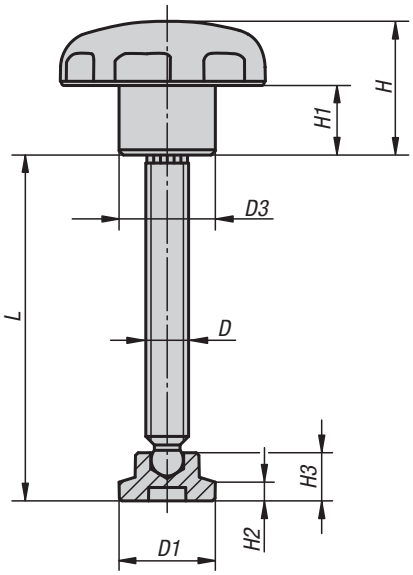


KIPP Thrust pads DIN 6311 enhanced

Order No. Steel	Order No. Stainless steel	Form	D1	D2	D4	H1	H2	T1	For grub screws with trust point DIN 6332
K0392.06	**K0392.061**	S	12	4,6	10	7	2,5	4	M6
K0392.08	**K0392.081**	S	16	6,1	12	9	4	5	M8
K0392.10	**K0392.101**	S	20	8,1	15	11	5	6	M10
K0392.12	**K0392.121**	S	25	8,1	18	13	7	7	M12
K0392.16	**K0392.161**	S	32	12,1	22	15	7	7,5	M16
K0392.20	**K0392.201**	S	40	15,6	28	16	9	8	M20
K0392.108	-	T	25	6,1	12	8	4	4,5	M8
K0392.110	-	T	32	8,1	18	10	6	6	M10 / M12
K0392.116	-	T	40	12,1	22	12	7	7	M16

Thrust spindles



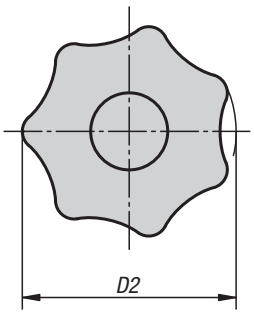


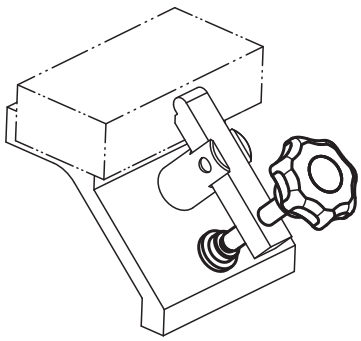
Material:
Star grip: thermoplastic.
Bush: steel.
Grub screw: steel, grade 5.8.
Thrust pad: plastic PA 6.

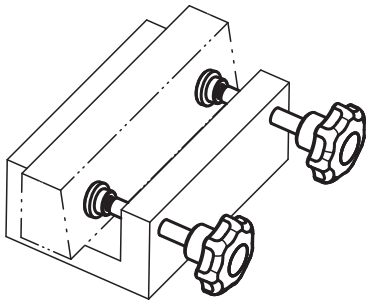
Version:
Star grip, thrust pad black.
Bush galvanized and blue passivated
Grub screw black oxidised.

Sample order:
K0394.06053

Note:
The thrust pad is supplied loose. It can be lightly pressed onto the end of the spindle.





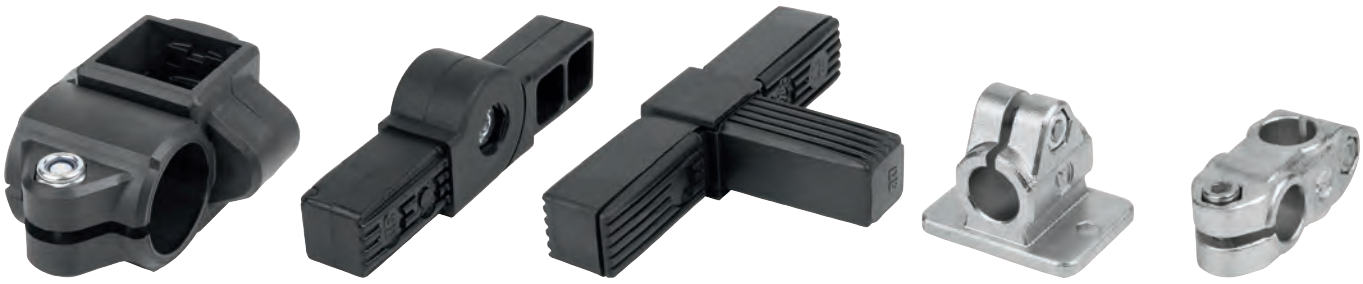


KIPP Thrust spindles

Order No.	D	D1	D2	D3	L	H	H1	H2	H3
K0394.06053	M6	15	32	14	53,8	20	10	2,5	7,6
K0394.08064	M8	18	40	18	64,6	25	13	3,5	9
K0394.10070	M10	21	50	22	70,1	32	17	4	11
K0394.12086	M12	25	63	26	86	40	21	5	13

Notes

Tube connectors, profile connectors



Technical information
Thermoplastic tube clamping system

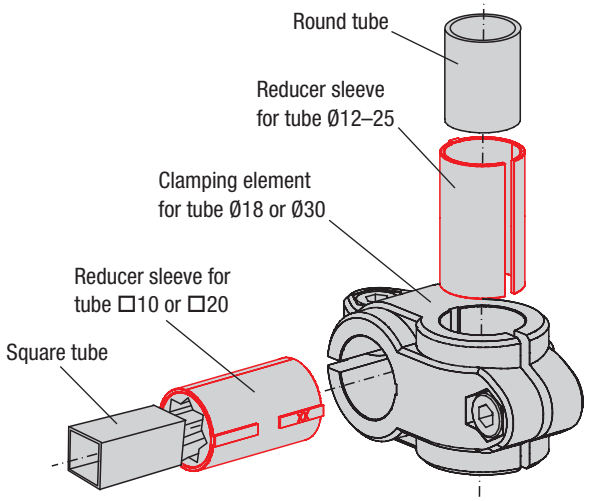
The tube clamping system is characterised by the attractive design and a special reducing sleeve concept.

This unique concept and the associated clamping of different diameters and tube forms permit a flexibility never before achieved.

By simply exchanging a sleeve an existing tubular construction can be transformed into one with a different diameter or cross-section.

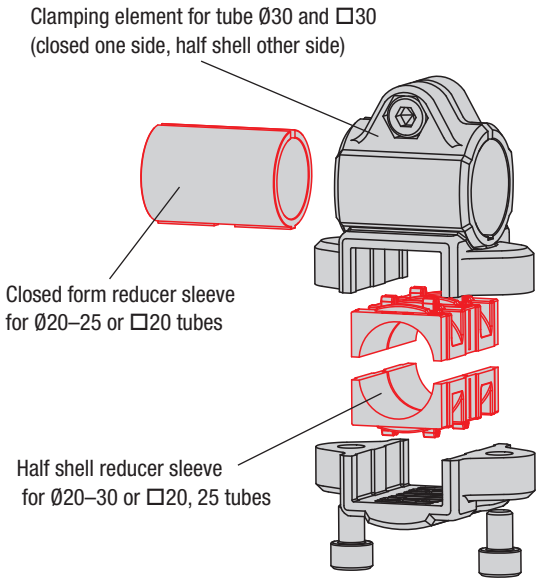
Benefits:
- Only one clamping element per construction type.
- Tube reduction (from Ø30–12 or 25x25–10x10) with different reducer sleeves for round or square tubes.
- Tube diameter marked on each reducer sleeve.
- Locking tab on the sleeves prevents rotation in the clamping element.

Closed system (one-piece, slitted)



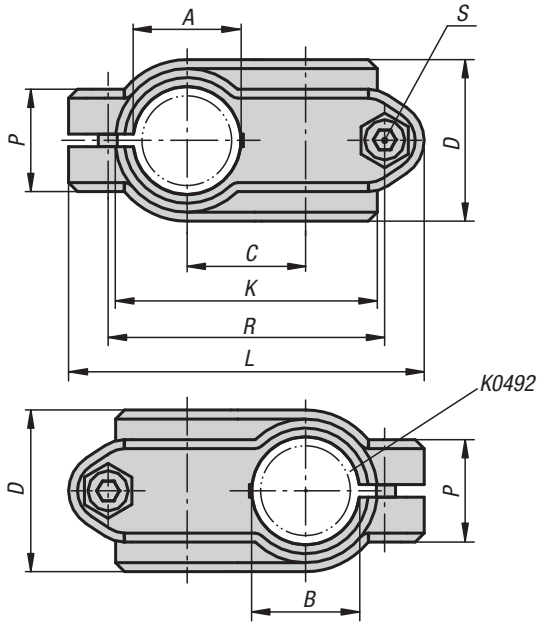
Half shell elements (two-piece)

Note:
The clamping elements are supplied as standard with a DIN 7984 screw and a DIN 985 self-locking nut. Plastic clamp levers for locking available on request.



Tube clamps cross

plastic





Material:
Thermoplastic.
DIN 7984 screws and DIN 985 nuts steel.

Version:
Black.
Screws and nuts galvanized.

Sample order:
K0472.1818

Note:
The standard size for round tubes is Ø18 mm or Ø30 mm. Use reducer sleeves K0492 if smaller tubes are to be clamped or a conversion from round to square tubes is required.

On request:
Plastic levers for locking.

Accessories:
- Reducer sleeves K0492
- Round and square tubes K0493

KIPP Tube clamps cross, plastic

Order No.	A	B	C	D	K	L	P	R	S
K0472.1818	18	18	20	30	48	63	21	48	M6x18
K0472.3030	30	30	33	45	72	99	28,5	77	M8x25

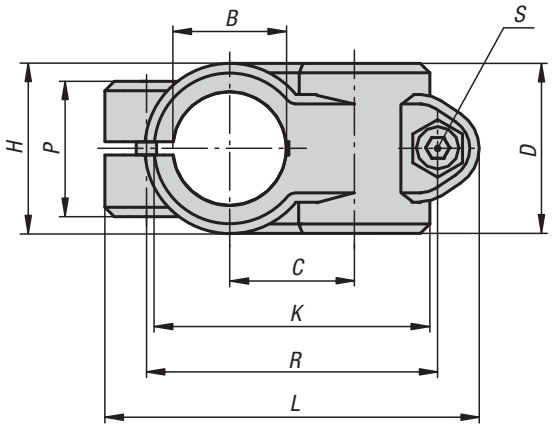
Application using tube clamps

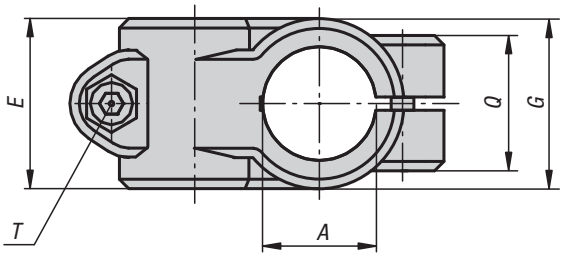


Tube clamps cross

aluminium







Material:
Cast aluminium.
DIN 7984 screws and DIN 985 nuts steel.

Version:
Vibratory ground.
Screws and nuts galvanized.

Sample order:
K0472.51818

On request:
Levers for locking.

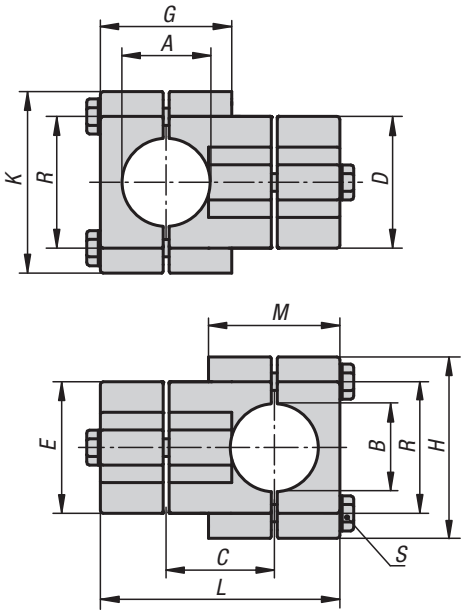
Accessories:
- Round and square tubes K0493

KIPP Tube clamps cross, aluminium

Order No.	A	B	C	D	E	G	H	K	L	P	Q	R	S	T
K0472.51212	12,1	12,1	20	25,5	25,5	-	-	43,5	66	23	23	51	M6x20	M6x20
K0472.51414	14,1	14,1	20	25,5	25,5	-	-	43,5	66	22	22	51	M6x20	M6x18
K0472.51515	15,1	15,1	20	25,5	25,5	-	-	43,5	66	22	22	51	M6x20	M6x18
K0472.51616	16,1	16,1	20	25,5	25,5	-	-	43,5	66	22	22	51	M6x20	M6x18
K0472.51818	18,1	18,1	20	25,5	25,5	-	-	43,5	66	23	23	51	M6x20	M6x18
K0472.52014	20,1	14,1	27	40	33	40	26	60	84	21	33	65	M8x25	M6x18
K0472.52020	20,1	20,1	33	40	40	-	-	73	99	33	33	78	M8x25	M8x25
K0472.52514	25,1	14,1	27	40	33	40	26	60	84	21	33	65	M8x25	M6x18
K0472.52525	25,1	25,1	33	40	40	-	-	73	99	33	33	78	M8x25	M8x25
K0472.53014	30,1	14,1	27	40	33	40	26	60	84	21	33	65	M8x25	M6x18
K0472.53030	30,1	30,1	33	40	40	-	-	73	99	33	33	78	M8x25	M8x25
K0472.54020	40,2	20,2	36	50	40	55	34,5	87	109	33	40	87	M10x30	M8x25
K0472.54030	40,2	30,1	45	65	65	65	49	98	137	44	44	109	M10x30	M10x30
K0472.54040	40,17	40,17	45	60	60	-	-	100	137	40	40	110	M10x30	M10x30
K0472.55030	50,2	30,1	45	65	65	65	49	98	137	44	44	109	M10x35	M10x35
K0472.55050	50,2	50,2	54	70	70	-	-	118	154	45	45	128	M10x35	M10x35

Tube clamps cross

aluminium





Material:
Cast aluminium.
Screws and nuts steel.

Version:
Vibratory ground.
Screws and nuts galvanized.

Sample order:
K0472.523030

On request:
Levers for locking and other diameters.

Accessories:
- Round and square tubes K0493

KIPP Tube clamps cross, aluminium

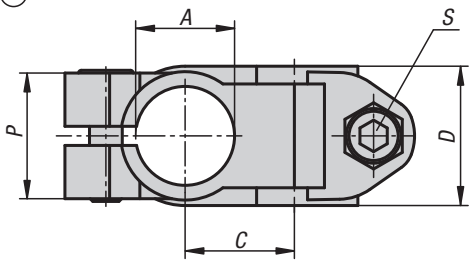
Order No.	A	B	C	D	E	G	H	K	L	M	R	S
K0472.523030	30,2	30,2	38	45	45	44	62	62	83	44	46	M8x45
K0472.524040	40,2	40,2	50	60	60	60	75	75	110	60	57	M8x60

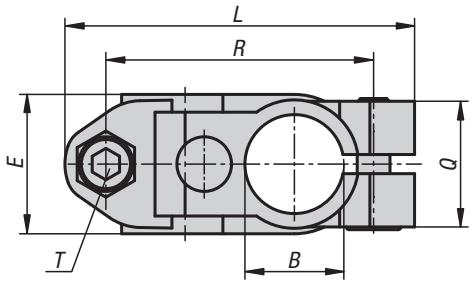
Notes

Tube clamps cross

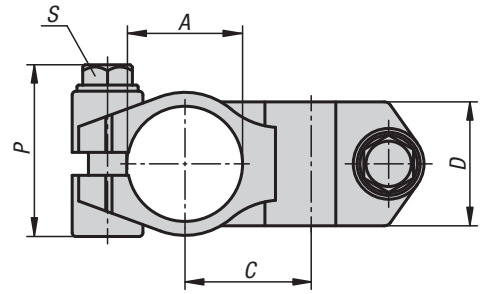
stainless steel

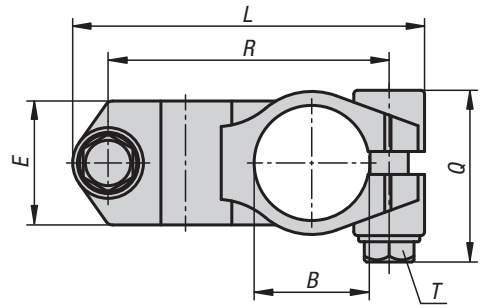
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Material:
Investment cast 1.4308 stainless steel.
Socket head screw ISO 4762 and hexagon nut ISO 4032, stainless steel.
From ø30 mm hexagon head bolt ISO 4017, stainless steel.

Version:
Electropolished.

Sample order:
K0472.11212

Note:
The tube clamps with diameters 30 and 40 mm have a silicone coating on the female thread that protects the thread of the hex head screw from contamination and damage.

On request:
Levers for locking.

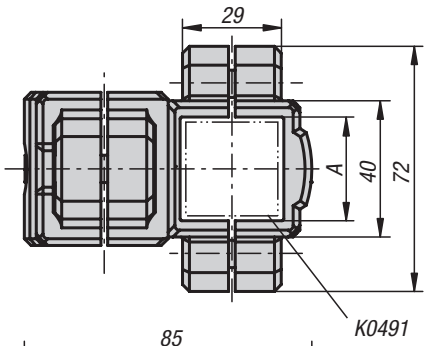
Accessories:
- Round and square tubes K0493

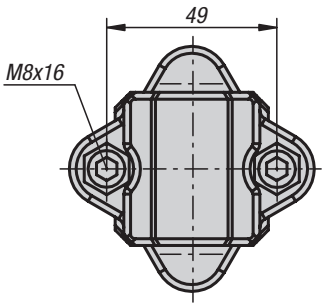
KIPP Tube clamps cross, stainless steel

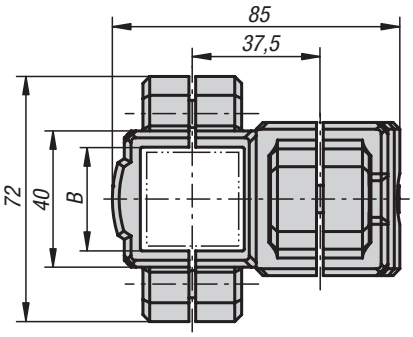
Order No.	Form	A	B	C	D	E	L	P	Q	R	S	T
K0472.11212	A	12,1	12,1	20	25,5	25,5	64	23	23	49	M6x18	M6x18
K0472.11414	A	14,1	14,1	20	25,5	25,5	64	23	23	49	M6x18	M6x18
K0472.11616	A	16,1	16,1	20	25,5	25,5	64	23	23	49	M6x18	M6x18
K0472.11818	A	18,1	18,1	20	25,5	25,5	64	23	23	49	M6x18	M6x18
K0472.12020	A	20,1	20,1	21	25,5	25,5	64	23	23	49	M6x18	M6x18
K0472.13030	B	30,1	30,1	33	32,4	32,4	92	45.5	45.5	73,5	M8x30	M8x30
K0472.14040	B	40,17	40,17	42	40,4	40,4	118	52	52	95,5	M10x35	M10x35

Tube clamps cross

plastic









Material:
Thermoplastic.
DIN 7984 screws and DIN 985 nuts steel.

Version:
Black.
Screws and nuts galvanized.

Sample order:
K0473.3030

Note:
These cross clamps are for 30 mm square tubes.
Use reducer sleeves K0491 if smaller tubes are to be clamped or a conversion from square to round tubes is required.

On request:
Plastic levers for locking.

Accessories:
- Reducer sleeves K0491
- Round and square tubes K0493

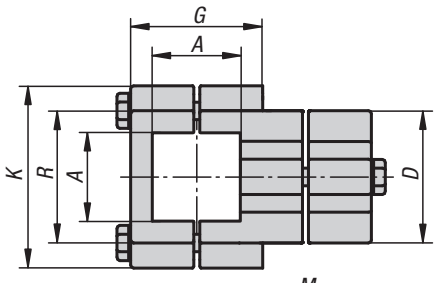
KIPP Tube clamps cross, plastic

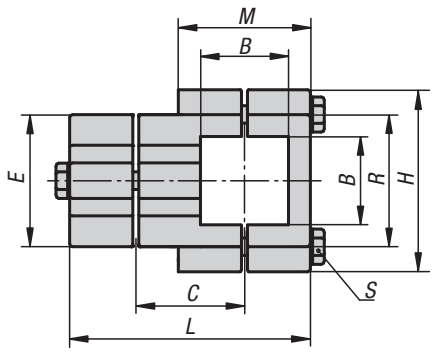
Order No.	A	B
K0473.3030	30	30

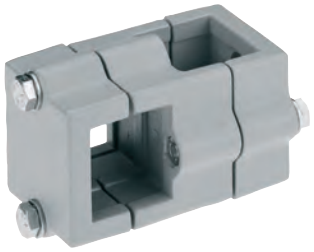
K0473

Tube clamps cross

aluminium







Material:
Cast aluminium.
Screws and nuts steel.

Version:
Vibratory ground.
Screws and nuts galvanized.

Sample order:
K0473.523030

On request:
Levers for locking and other sizes for square tube.

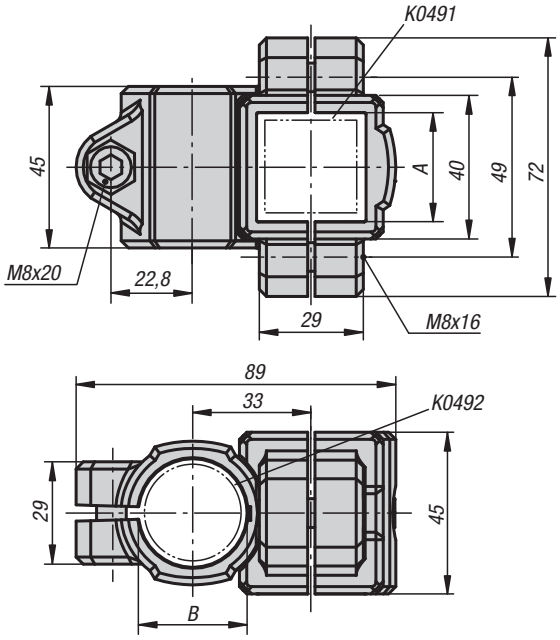
Accessories:
- Round and square tubes K0493

KIPP Tube clamps cross, aluminium

Order No.	A	B	C	D	E	G	H	K	L	M	R	S
K0473.523030	30,2	30,2	38	45	45	44	62	62	83	44	46	M8x45
K0473.524040	40,3	40,3	50	60	60	60	75	75	110	60	57	M8x60

Tube clamps cross

plastic





Material:
Thermoplastic.
DIN 7984 screws and DIN 985 nuts steel.

Version:
Black.
Screws and nuts galvanized.

Sample order:
K0474.3030

Note:
These cross clamps are for 30 mm square and round tubes. Use reducer sleeves K0491 or K0492 if smaller tubes are to be clamped or a conversion from round to square tubes „or vice versa“ is required.

On request:
Plastic levers for locking.

Accessories:
- Reducer sleeves K0491 and K0492
- Round and square tubes K0493

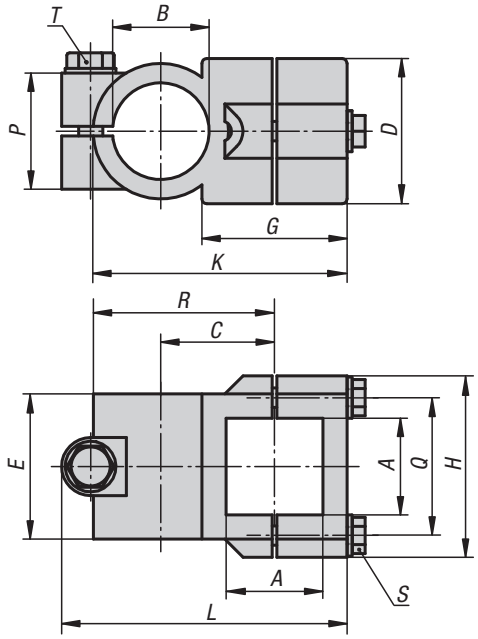
KIPP Tube clamps cross, plastic

Order No.	A	B
K0474.3030	30	30

K0474

Tube clamps cross

aluminium





Material:
Cast aluminium.
Screws and nuts steel.

Version:
Vibratory ground.
Screws and nuts galvanized.

Sample order:
K0474.53030

On request:
Clamping levers for fastening and other diameters.

Accessories:
- Round and square tubes K0493

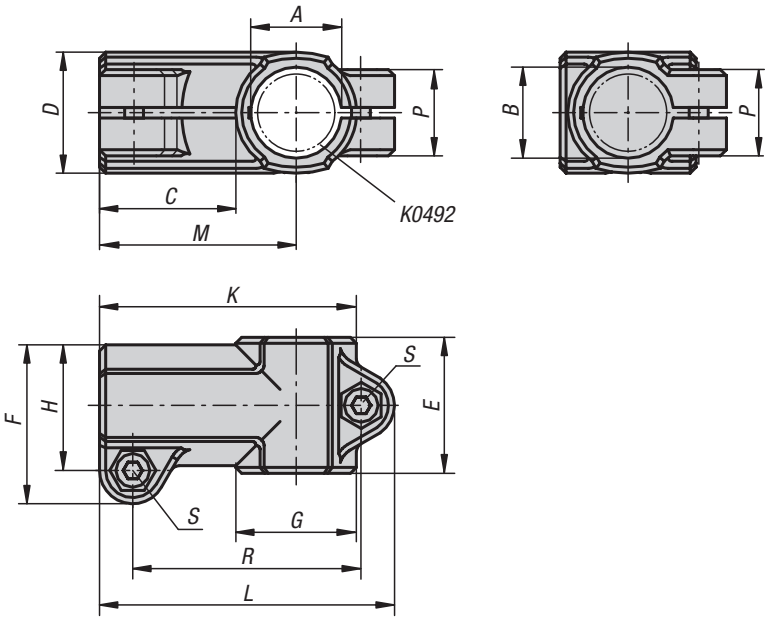
KIPP Tube clamps cross, aluminium

Order No.	A	B	C	D	E	G	H	K	L	P	Q	R	S	T
K0474.53030	30,2	30,1	33	45	45	40	62	74,5	85	33	46	55	M8x35	M8x35
K0474.54040	40,3	40,2	47	60	60	60	75	105	117	48	57	75	M8x45	M10x50

Tube clamps T-angle

plastic





Material:
Thermoplastic.
DIN 7984 screws and DIN 985 nuts steel.

Version:
Black.
Screws and nuts galvanized.

Sample order:
K0475.1818

Note:
The standard size for round tubes is Ø18 mm or Ø30 mm. Use reducer sleeves K0492 if smaller tubes are to be clamped or a conversion from round to square tubes is required.

On request:
Plastic levers for locking.

Accessories:
- Reducer sleeves K0492
- Round and square tubes K0493

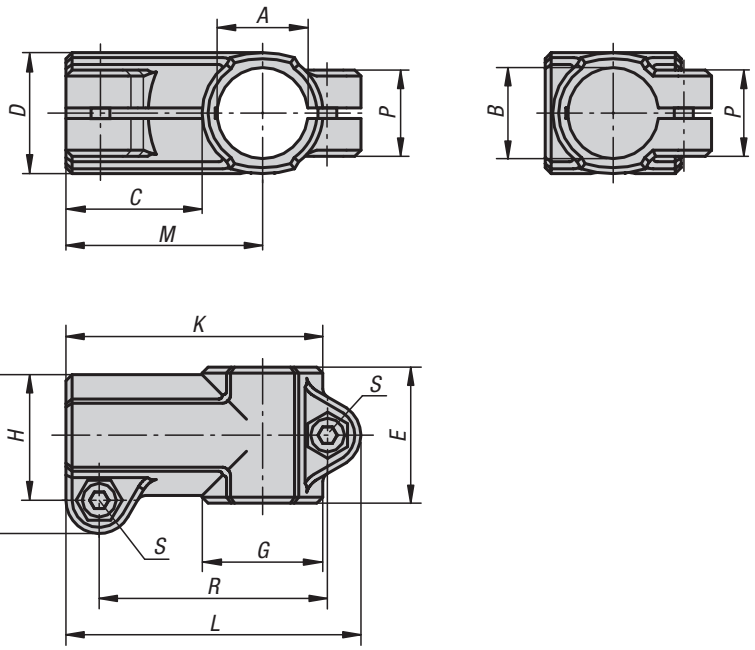
KIPP Tube clamps T-angle, plastic

Order No.	A	B	C	D	E	F	G	H	K	L	M	P	R	S
K0475.1818	18	18	30,5	25	30	34	25	26,5	55,5	64,5	43	21	49,5	M6x18
K0475.3030	30	30	45	40	45	52,5	40	41,5	85	97,5	65	28,5	75,5	M8x25

Tube clamps T-angle

aluminium





Material:
Cast aluminium.
DIN 7984 screws and DIN 985 nuts steel.

Version:
Vibratory ground.
Screws and nuts galvanized.

Sample order:
K0475.51818

On request:
Levers for locking and other diameters.

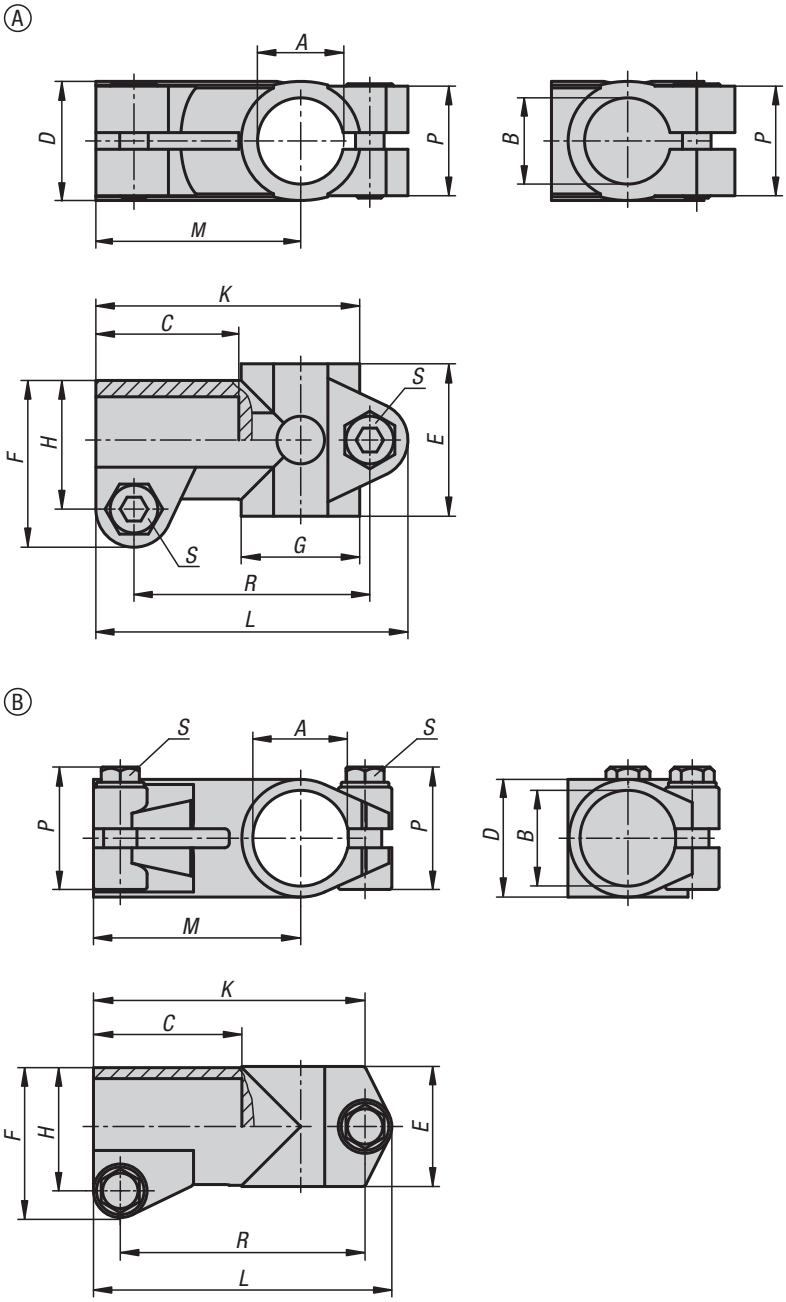
Accessories:
- Round and square tubes K0493

KIPP Tube clamps T-angle, aluminium

Order No.	A	B	C	D	E	F	G	H	K	L	M	P	R	S
K0475.51212	12,1	12,1	30	26	32	37,5	26	30	56	67,5	43	21	52	M6x20
K0475.51414	14,1	14,1	30	26	32	37,5	26	30	56	67,5	43	21	52	M6x20
K0475.51515	15,1	15,1	30	26	32	37,5	26	30	56	67,5	43	21	52	M6x20
K0475.51616	16,1	16,1	30	26	32	37,5	26	30	56	67,5	43	21	52	M6x20
K0475.51818	18,1	18,1	30	26	32	37,5	26	30	56	67,5	43	21	52	M6x20
K0475.52020	20,1	20,1	40	40	45	53	40	42,5	80	93	60	33	72,5	M8x25
K0475.52525	25,1	25,1	40	40	45	53	40	42,5	80	93	60	33	72,5	M8x25
K0475.53030	30,1	30,1	40	40	45	53	40	42,5	80	93	60	33	72,5	M8x25
K0475.54040	40,2	40,2	60	56	60	74	56	60	115	133	88	40	107	M10x30
K0475.55050	50,22	50,22	63	66	70	85	66	71	131	150	99	45	122	M10x35

Tube clamps T-angle

stainless steel





Material:
Investment cast 1.4308 stainless steel.
Socket head screw ISO 4762 and hexagon nut ISO 4032, stainless steel.
From ø30 mm hexagon head bolt ISO 4017, stainless steel.

Version:
Electropolished.

Sample order:
K0475.11212

Note:
The tube clamps with diameters 30 and 40 mm have a silicone coating on the female thread that protects the thread of the hex head screw from contamination and damage.

On request:
Levers for locking.

Accessories:
- Round and square tubes K0493

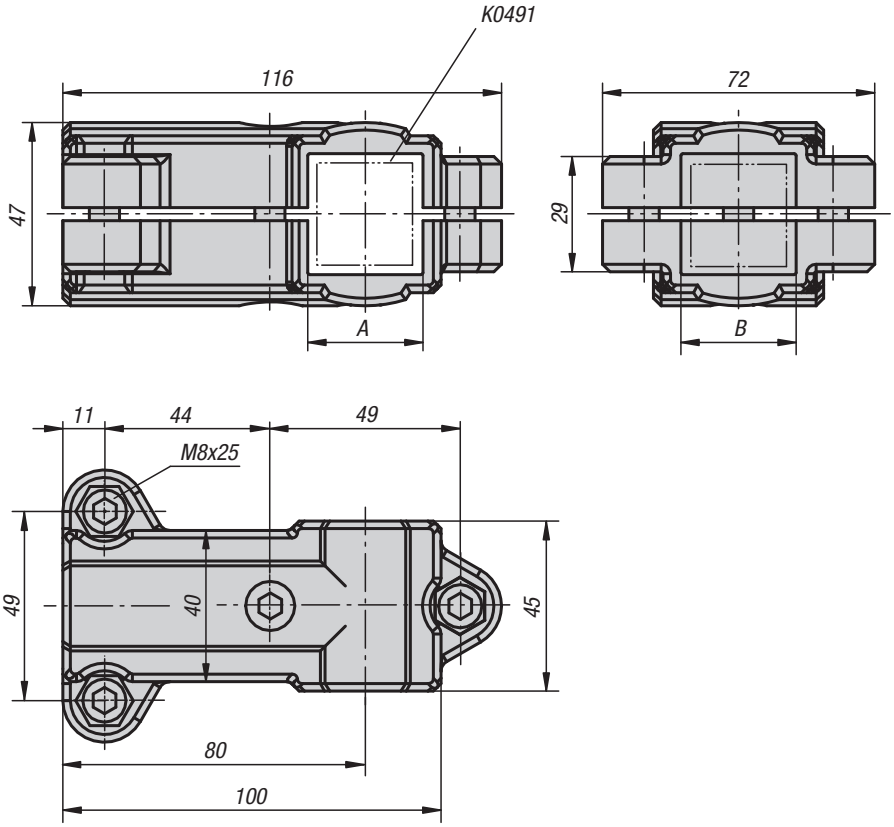
KIPP Tube clamps T-angle stainless steel

Order No.	Form	A	B	C	D	E	F	G	H	K	L	M	P	R	S
K0475.11212	A	12,1	12,1	30,5	25	32	35	25	27	55,5	65,5	43	23	49,5	M6x18
K0475.11414	A	14,1	14,1	30,5	25	32	35	25	27	55,5	65,5	43	23	49,5	M6x18
K0475.11616	A	16,1	16,1	30,5	25	32	35	25	27	55,5	65,5	43	23	49,5	M6x18
K0475.11818	A	18,1	18,1	30,5	25	32	35	25	27	55,5	65,5	43	23	49,5	M6x18
K0475.12020	A	20,1	20,1	30,5	25	32	35	25	27	55,5	65,5	43	23	49,5	M6x18
K0475.13030	B	30,1	30,1	40	38,4	38	48	-	39	78	87	58	45.5	69	M8x30
K0475.14040	B	40,17	40,17	60	50,4	50	63	-	51,8	112	124,9	87	52	102,5	M10x35

Tube clamps T-angle

plastic





Material:
Thermoplastic.
DIN 7984 screws and DIN 985 nuts steel.

Version:
Black.
Screws and nuts galvanized.

Sample order:
K0476.3030

Note:
These T-clamps are for 30 mm square tubes. Use reducer sleeves K0491 if smaller tubes are to be clamped or a conversion from square to round tubes is required.

On request:
Plastic levers for locking.

Accessories:
- Reducer sleeves K0491
- Round and square tubes K0493

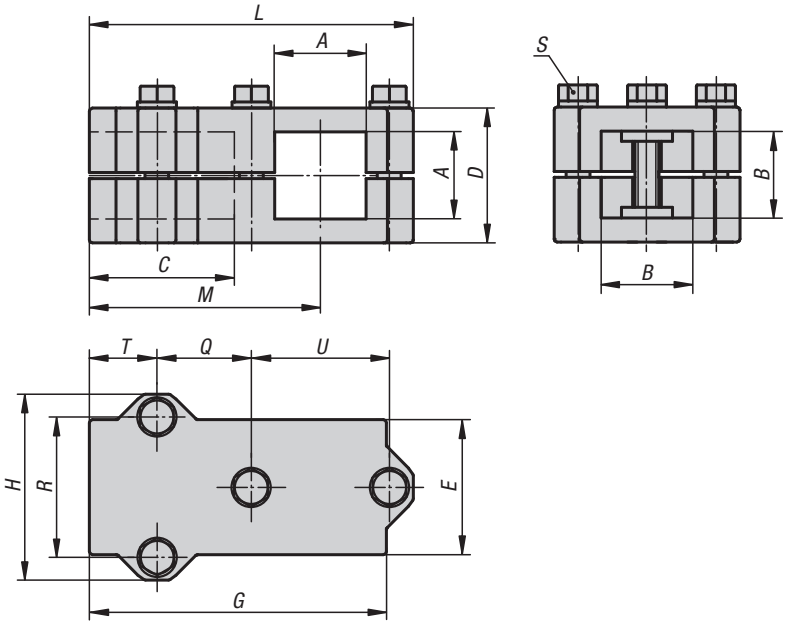
KIPP Tube clamps T-angle, plastic

Order No.	A	B
K0476.3030	30	30

Tube clamps T-angle

aluminium





Material:
Cast aluminium.
Screws and nuts steel.

Version:
Vibratory ground.
Screws and nuts galvanized.

Sample order:
K0476.523030

On request:
Levers for locking and other sizes for square tube.

Accessories:
- Round and square tubes K0493

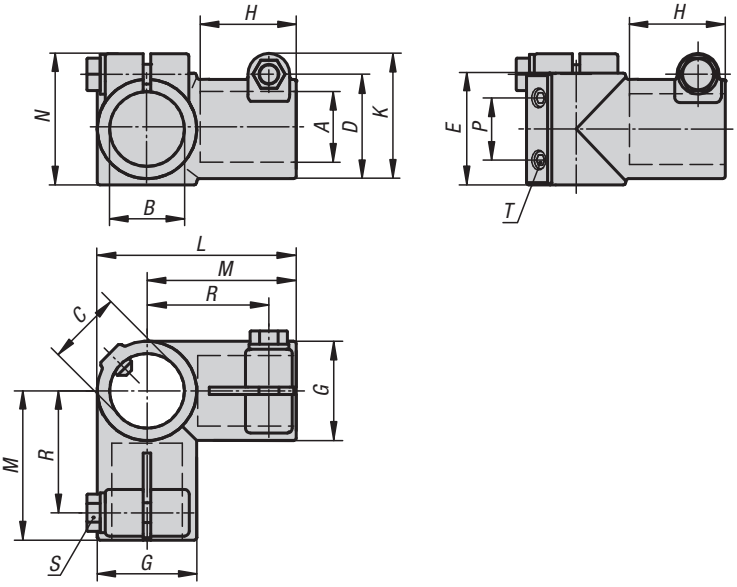
KIPP Tube clamps T-angle, aluminium

Order No.	A	B	C	D	E	G	H	L	M	Q	R	S	T	U
K0476.523030	30,3	30,3	46	45	45	100	62	108	77	31,5	46	M8x45	23	46
K0476.524040	40,4	40,4	60	60	60	129	75	136	99	40	57	M8x60	30	57

Tube clamps right-angle

aluminium





Material:
Cast aluminium.
Screws and nuts steel.

Version:
Vibratory ground.
Screws and nuts galvanized.

Sample order:
K0476.530

On request:
Levers for locking and other diameters.

Accessories:
- Round and square tubes K0493

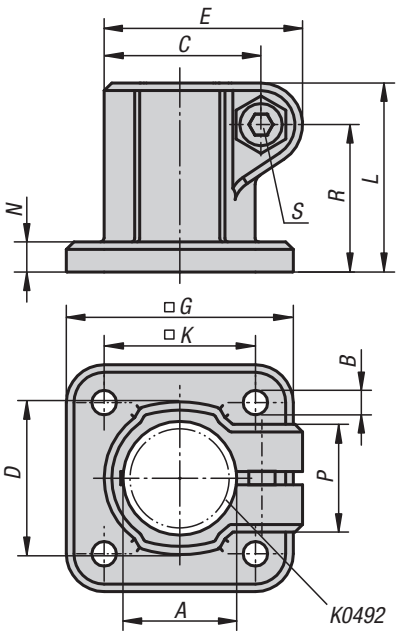
KIPP Tube clamps right-angle, aluminium

Order No.	A	B	C	D	E	G	H	K	L	M	N	P	R	S	T
K0476.530	30,1	30,1	30	40	45	40	35	51	80	60	53	25	49	M8x35	M8x15
K0476.540	40,2	40,2	40	56	60	56	58	71	116	88	73	35	75	M10x30	M8x10
K0476.550	50,2	50,2	50,2	66	70	66	70	78	136	108	80	40	90	M10x35	M10x12

Tube clamps base

plastic





Material:
Thermoplastic.
DIN 7984 screws and DIN 985 nuts steel.

Version:
Black.
Screws and nuts galvanized.

Sample order:
K0477.18

Note:
The standard size for round tubes is Ø18 mm or Ø30 mm. Use reducer sleeves K0492 if smaller tubes are to be clamped or a conversion from round to square tubes is required.

On request:
Plastic levers for locking.

Accessories:
- Reducer sleeves K0492
- Round and square tubes K0493

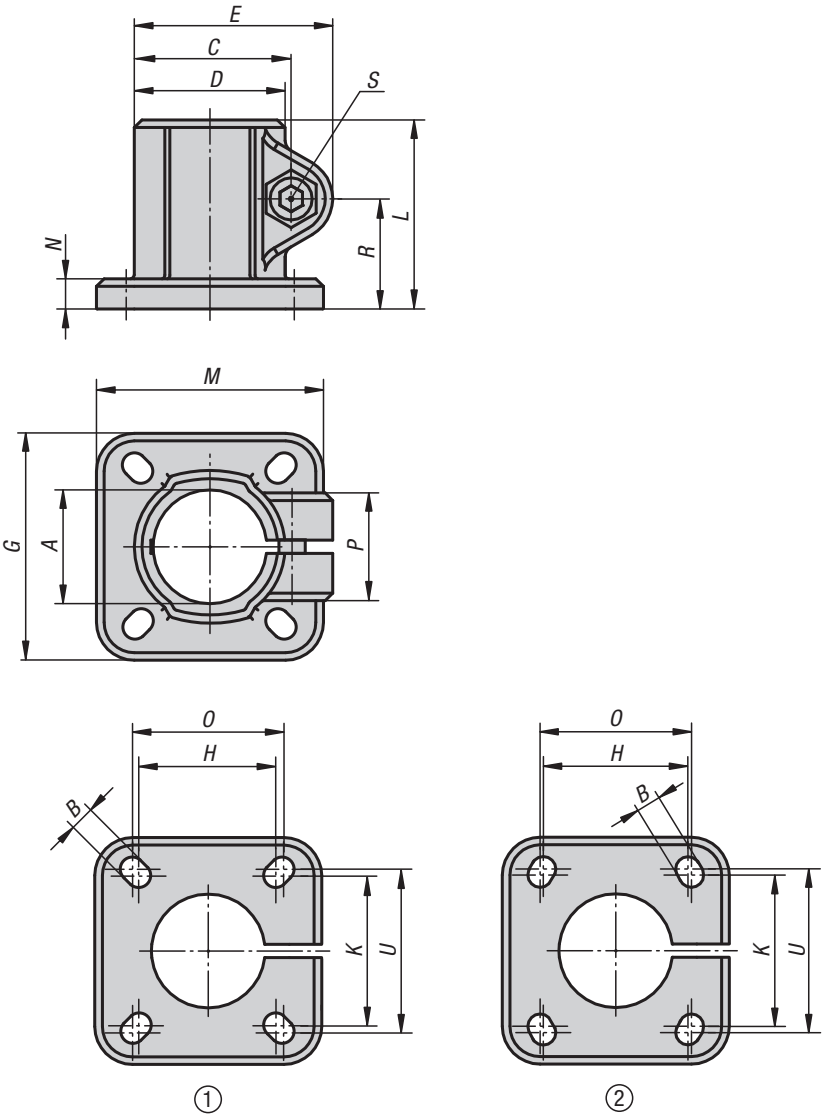
KIPP Tube clamps base, plastic

Order No.	A	B	C	D	E	G	K	L	N	P	R	S
K0477.18	18	5,3	26,5	26	34	45	30	32	5	21	24,5	M6x18
K0477.30	30	6,5	41,5	42	52,5	60	40	50	8	28,5	39	M8x25

Tube clamps base

aluminium





Material:
Cast aluminium.
DIN 7984 screws and DIN 985 nuts steel.

Version:
Vibratory ground.
Screws and nuts galvanized.

Sample order:
K0477.518

On request:
Levers for locking and other diameters.

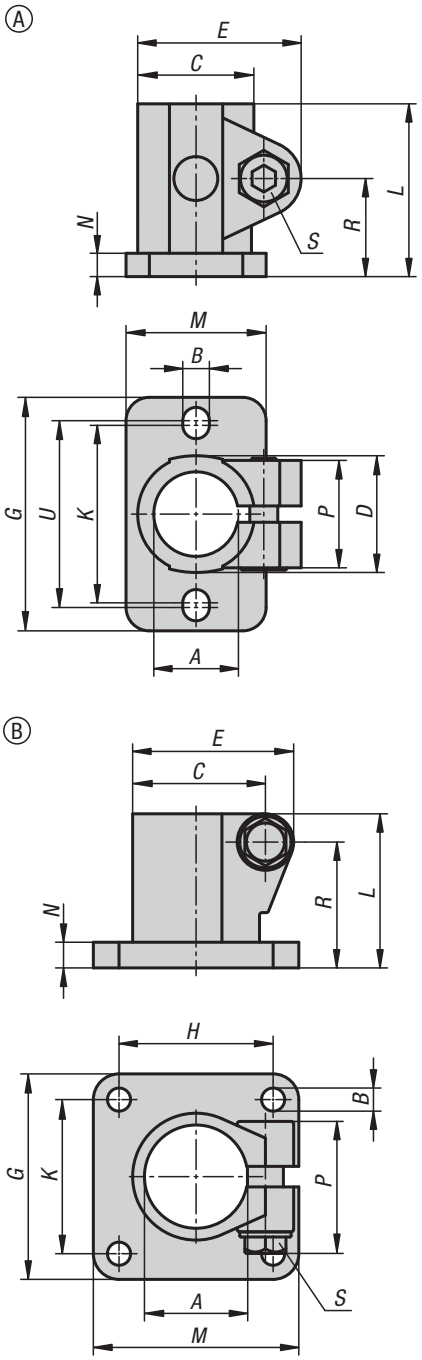
Accessories:
- Round and square tubes K0493

KIPP Tube clamps base, aluminium

Order No.	hole arrangement	A	B	C	D	E	G	H	K	L	M	N	O	P	R	S	U
K0477.512	1	12,1	5,5	29,5	25	37,5	42	28	28	37	42	5	30	23	21	M6x20	30
K0477.514	1	14,1	5,5	29,5	25	37,5	42	28	28	37	42	5	30	23	21	M6x20	30
K0477.515	1	15,1	5,5	29,5	25	37,5	42	28	28	37	42	5	30	23	21	M6x20	30
K0477.516	1	16,1	5,5	29,5	25	37,5	42	28	28	37	42	5	30	23	21	M6x20	30
K0477.518	1	18,1	5,5	29,5	25	37,5	42	28	28	37	42	5	30	23	21	M6x20	30
K0477.520	2	20,1	6,5	42,5	40	53	60	40	42	50	60	8	42	33	29	M8x25	45
K0477.525	2	25,1	6,5	42,5	40	53	60	40	42	50	60	8	42	33	29	M8x25	45
K0477.530	2	30,1	6,5	42,5	40	53	60	40	42	50	60	8	42	33	29	M8x25	45
K0477.540	1	40,17	8,5	60	56	74	90	60	60	70	90	10	64	40	40	M10x30	64
K0477.550	1	50,22	10,5	70	66	85	105	74	74	85	105	14	80	45	49,5	M10x35	80

Tube clamps base

stainless steel





Material:
Investment cast 1.4308 stainless steel.
Socket head screw ISO 4762 and hexagon nut ISO 4032, stainless steel.
From ø30 mm hexagon head bolt ISO 4017, stainless steel.

Version:
Electropolished.

Sample order:
K0477.112

Note:
The tube clamps with diameters 30 and 40 mm have a silicone coating on the female thread that protects the thread of the hex head screw from contamination and damage.

On request:
Levers for locking.

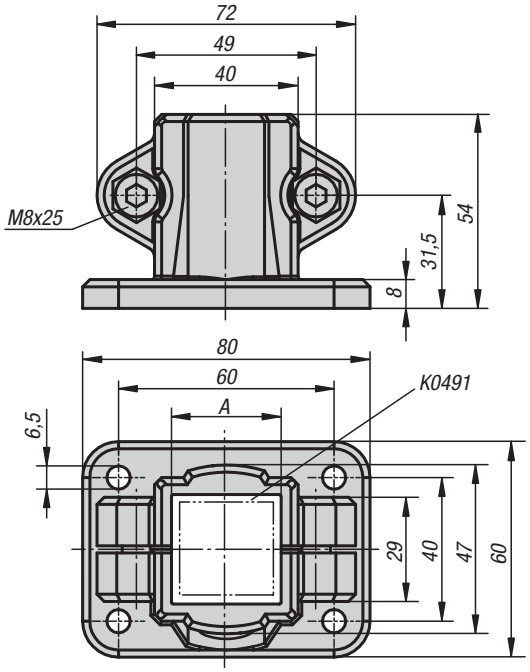
Accessories:
- Round and square tubes K0493

KIPP Tube clamps base, stainless steel

Order No.	Form	A	B	C	D	E	G	H	K	L	M	N	P	R	S	U
K0477.112	A	12,1	5,7	27	25	35	50	-	38	37	30	5	23	21	M6x18	40
K0477.114	A	14,1	5,7	27	25	35	50	-	38	37	30	5	23	21	M6x18	40
K0477.116	A	16,1	5,7	27	25	35	50	-	38	37	30	5	23	21	M6x18	40
K0477.118	A	18,1	5,7	27	25	35	50	-	38	37	30	5	23	21	M6x18	40
K0477.120	A	20,1	5,7	27	25	35	50	-	38	37	30	5	23	21	M6x18	40
K0477.130	B	30,1	7	39	37,4	48	60	40	40	50	60	7	45.5	41	M8x30	-
K0477.140	B	40,17	9	51,7	49,4	63	80	60	60	60	80	10	52	48,7	M10x35	-

Tube clamps base

plastic





Material:
Thermoplastic.
DIN 7984 screws and DIN 985 nuts steel.

Version:
Black.
Screws and nuts galvanized.

Sample order:
K0478.30

Note:
These base clamps are for 30 mm square tubes. Use reducer sleeves K0491 if smaller tubes are to be clamped or a conversion from square to round tubes is required.

On request:
Plastic levers for locking.

Accessories:
- Reducer sleeves K0491
- Round and square tubes K0493

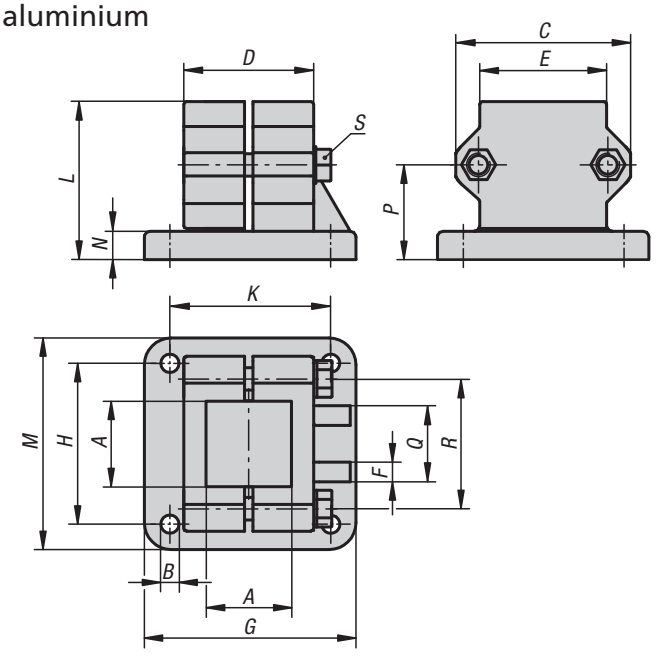
KIPP Tube clamps base, plastic

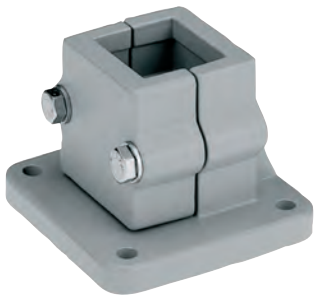
Order No.	A
K0478.30	30

K0478

Tube clamps base

aluminium





Material:
Cast aluminium.
Screws and nuts steel.

Version:
Vibratory ground.
Screws and nuts galvanized.

Sample order:
K0478.5230

On request:
Levers for locking and other sizes for square tube.

Accessories:
- Round and square tubes K0493

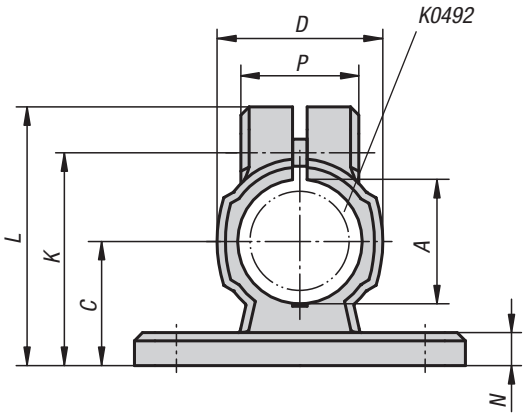
KIPP Tube clamps base, aluminium

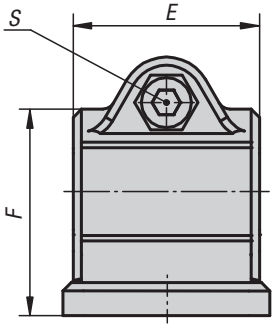
Order No.	A	B	C	D	E	F	G	H	K	L	M	N	P	Q	R	S
K0478.5230	30,3	6,5	62	45	45	5	75	57	57	56	75	10	33,5	25	46	M8x45
K0478.5240	40,4	8,5	75	60	60	5	100	76	76	71	100	10	43	25	57	M8x60

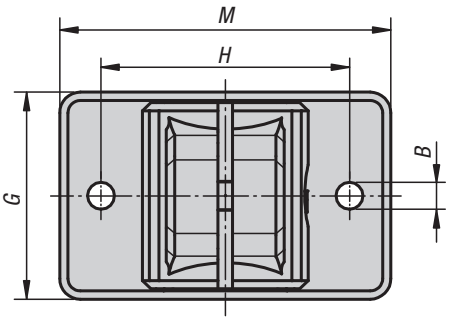
Tube clamps flange

plastic









Material:
Thermoplastic.
DIN 7984 screws and DIN 985 nuts steel.

Version:
Black.
Screws and nuts galvanized.

Sample order:
K0479.18

Note:
The standard size for round tubes is Ø18 mm or Ø30 mm. Use reducer sleeves K0492 if smaller tubes are to be clamped or a conversion from round to square tubes is required.

On request:
Plastic levers for locking.

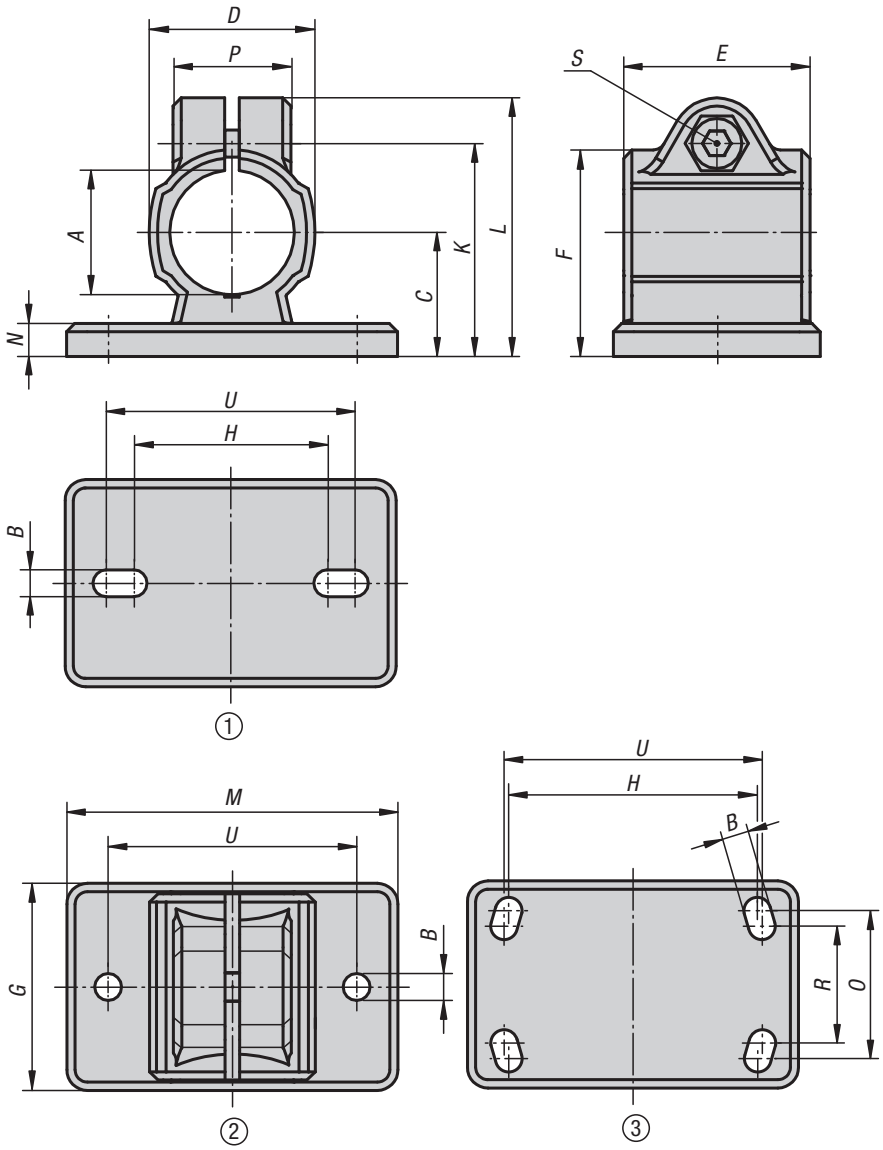
Accessories:
- Reducer sleeves K0492
- Round and square tubes K0493

KIPP Tube clamps, flange, plastic

Order No.	A	B	C	D	E	F	G	H	K	L	M	N	P	S
K0479.18	18	5,3	18	25	30	30,5	35	40	32	39,5	50	5	21	M6x18
K0479.30	30	6,5	30	40	45	50	50	60	51,5	62,5	80	8	28,5	M8x25

Tube clamps flange

aluminium





Material:
Cast aluminium.
DIN 7984 screws and DIN 985 nuts steel.

Version:
Vibratory ground.
Screws and nuts galvanized.

Sample order:
K0479.518

Note:
* Elongated hole

On request:
Levers for locking and other diameters.

Accessories:
- Round and square tubes K0493

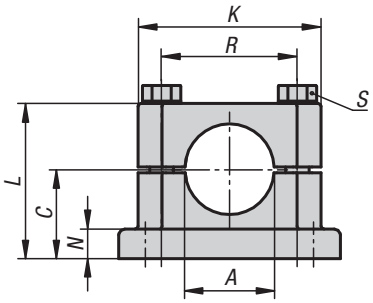
KIPP Tube clamps, flange, aluminium

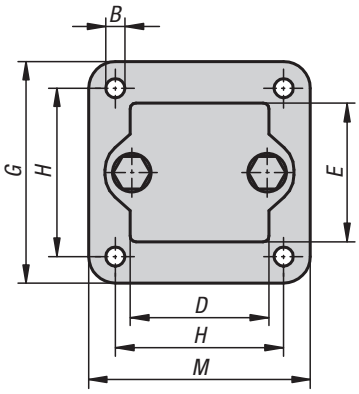
Order No.	hole arrangement	A	B	C	D	E	F	G	H	K	L	M	N	O	P	R	S	U
K0479.512	1	12,1	5,5* (2x)	18	26	32	31	35	38	32,5	41	50	5	-	23	-	M6x20	40
K0479.514	2	14,1	5,5 (2x)	18	26	32	31	35	-	32,5	41	50	5	-	23	-	M6x20	40
K0479.515	2	15,1	5,5 (2x)	18	26	32	31	35	-	32,5	41	50	5	-	23	-	M6x20	40
K0479.516	1	16,1	5,5* (2x)	18	26	32	31	35	38	32,5	41	50	5	-	23	-	M6x20	40
K0479.518	2	18,1	5,5 (2x)	18	26	32	31	35	-	32,5	41	50	5	-	23	-	M6x20	40
K0479.520	1	20,1	6,5* (2x)	30	40	40	50	55	53	53	63	78	7	-	33	-	M8x25	60
K0479.525	1	25,1	6,5* (2x)	30	40	40	50	55	53	53	63	78	7	-	33	-	M8x25	60
K0479.530	1	30,1	6,5* (2x)	30	40	40	50	55	53	53	63	78	7	-	33	-	M8x25	60
K0479.540	3	40,17	8,5* (4x)	42	56	60	70	80	80	74	87	105	10	60	40	52	M10x30	82
K0479.550	3	50,17	10,5* (4x)	50	66	65	83	90	98	85	98	128	14	62	45	60	M10x35	100

Tube clamps flange

aluminium







Material:
Cast aluminium.
Screws and nuts steel.

Version:
Vibratory ground.
Screws and nuts galvanized.

Sample order:
K0479.5230

On request:
Levers for locking and other diameters.

Accessories:
- Round and square tubes K0493

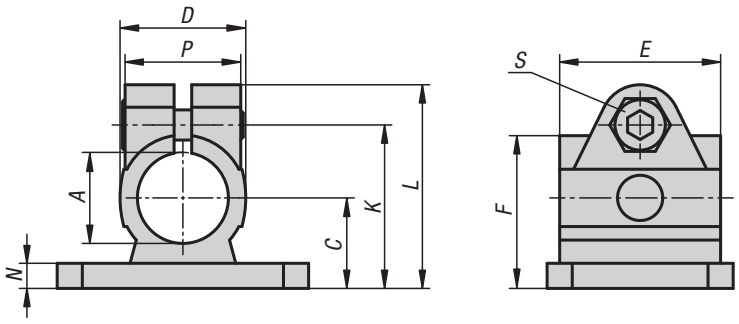
KIPP Tube clamps, flange, aluminium

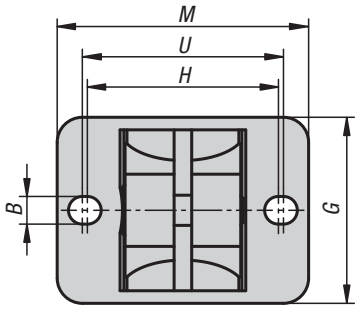
Order No.	A	B	C	D	E	G	H	K	L	M	N	R	S
K0479.5220	20,2	6,5	30	45	45	75	57	62	52,5	75	10	46	M8x50
K0479.5225	25,2	6,5	30	45	45	75	57	62	52,5	75	10	46	M8x50
K0479.5230	30,2	6,5	30	45	45	75	57	62	52,5	75	10	46	M8x50
K0479.5240	40,2	8,5	40	60	60	100	76	75	70	100	10	57	M8x70

Tube clamps flange

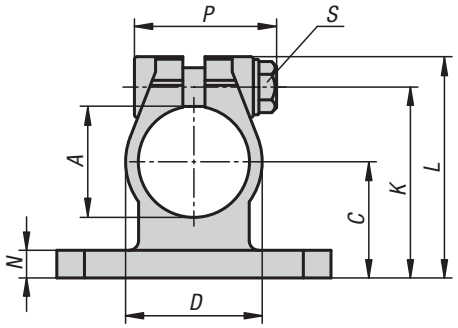
stainless steel

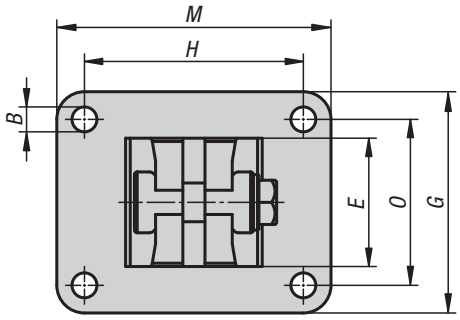
Ⓐ





Ⓑ







Material:
Investment cast 1.4308 stainless steel.
Socket head screw ISO 4762 and hexagon nut ISO 4032, stainless steel.
From ø30 mm hexagon head bolt ISO 4017, stainless steel.

Version:
Electropolished.

Sample order:
K0479.112

Note:
The tube clamps with diameters 30 and 40 mm have a silicone coating on the female thread that protects the thread of the hex head screw from contamination and damage.

On request:
Levers for locking.

Accessories:
- Round and square tubes K0493

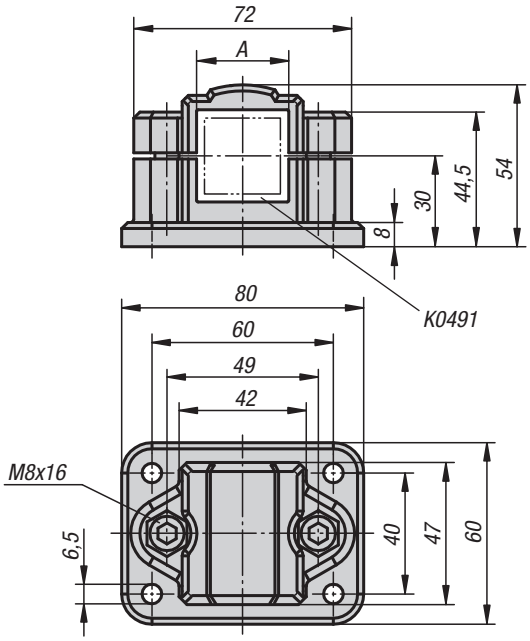
KIPP Tube clamps flange, stainless steel

Order No.	Form	A	B	C	D	E	F	G	H	K	L	M	N	O	P	S	U
K0479.112	A	12,1	5,5	18	25	32	30,4	37	38	32,5	40.5	50	5	-	23	M6x18	40
K0479.114	A	14,1	5,5	18	25	32	30,4	37	38	32,5	40.5	50	5	-	23	M6x18	40
K0479.116	A	16,1	5,5	18	25	32	30,4	37	38	32,5	40.5	50	5	-	23	M6x18	40
K0479.118	A	18,1	5,5	18	25	32	30,4	37	38	32,5	40.5	50	5	-	23	M6x18	40
K0479.120	A	20,1	5,5	18	25	32	30,4	37	38	32,5	40.5	50	5	-	23	M6x18	40
K0479.130	B	30,1	7	30	37,4	32,4	-	55	60	50	59,2	78	7	40	45.5	M8x30	-
K0479.140	B	40,17	9	42	49,4	46,4	-	80	60	69	80	80	10	60	52	M10x35	-

K0480

Tube clamps flange

plastic





Material:
Thermoplastic.
DIN 7984 screws and DIN 985 nuts steel.

Version:
Black.
Screws and nuts galvanized.

Sample order:
K0480.30

Note:
These flange clamps are for 30 mm square tubes.
Use reducer sleeves K0491 if smaller tubes are to be clamped or a conversion from square to round tubes is required.

On request:
Plastic levers for locking.

Accessories:
- Reducer sleeves K0491
- Round and square tubes K0493

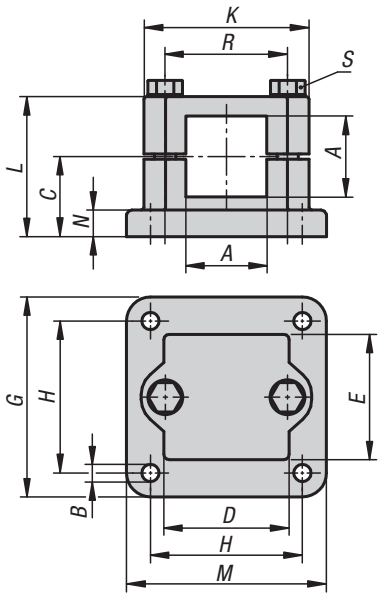
KIPP Tube clamps flange, plastic

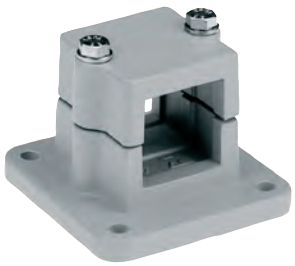
Order No.	A
K0480.30	30

K0480

Tube clamps flange

aluminium





Material:
Cast aluminium.
Screws and nuts steel.

Version:
Vibratory ground.
Screws and nuts galvanized.

Sample order:
K0480.5230

On request:
Levers for locking and other sizes for square tube.

Accessories:
- Round and square tubes K0493

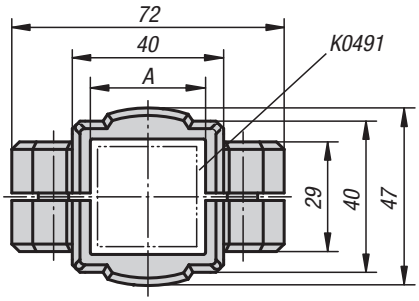
KIPP Tube clamps flange, aluminium

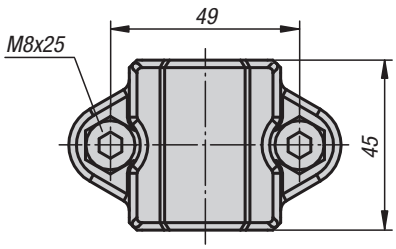
Order No.	A	B	C	D	E	G	H	K	L	M	N	R	S
K0480.5225	25,3	6,5	30	45	45	75	57	62	52,5	75	10	46	M8x50
K0480.5230	30,3	6,5	30	45	45	75	57	62	52,5	75	10	46	M8x50
K0480.5240	40,4	8,5	40	60	60	100	76	75	70	100	10	57	M8x70

K0481

Tube clamps straight

plastic







Material:
Thermoplastic.
DIN 7984 screws and DIN 985 nuts steel.

Version:
Black.
Screws and nuts galvanized.

Sample order:
K0481.30

Note:
These straight clamps are for 30 mm square tubes. Use reducer sleeves K0491 if smaller tubes are to be clamped or a conversion from square to round tubes is required.

On request:
Plastic levers for locking.

Accessories:
- Reducer sleeves K0491
- Round and square tubes K0493

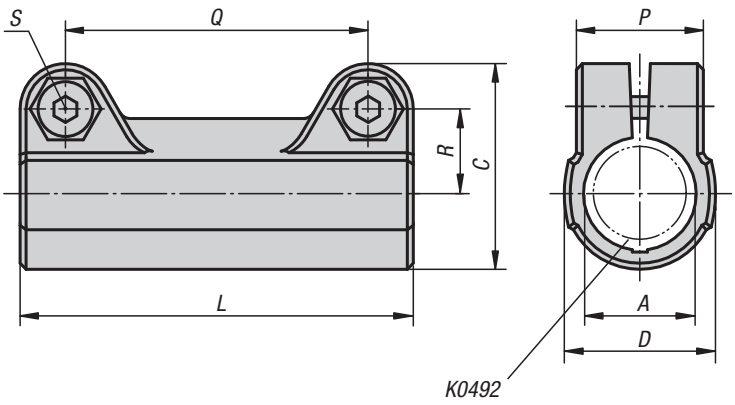
KIPP Tube clamps straight, plastic

Order No.	A
K0481.30	30

K0483

Tube clamps straight

plastic





Material:
Thermoplastic.
DIN 7984 screws and DIN 985 nuts steel.

Version:
Black.
Screws and nuts galvanized.

Sample order:
K0483.18

Note:
The standard size for round tubes is Ø18 mm or Ø30 mm. Use reducer sleeves K0492 if smaller tubes are to be clamped or a conversion from round to square tubes is required.

On request:
Plastic levers for locking.

Accessories:
- Reducer sleeves K0492
- Round and square tubes K0493

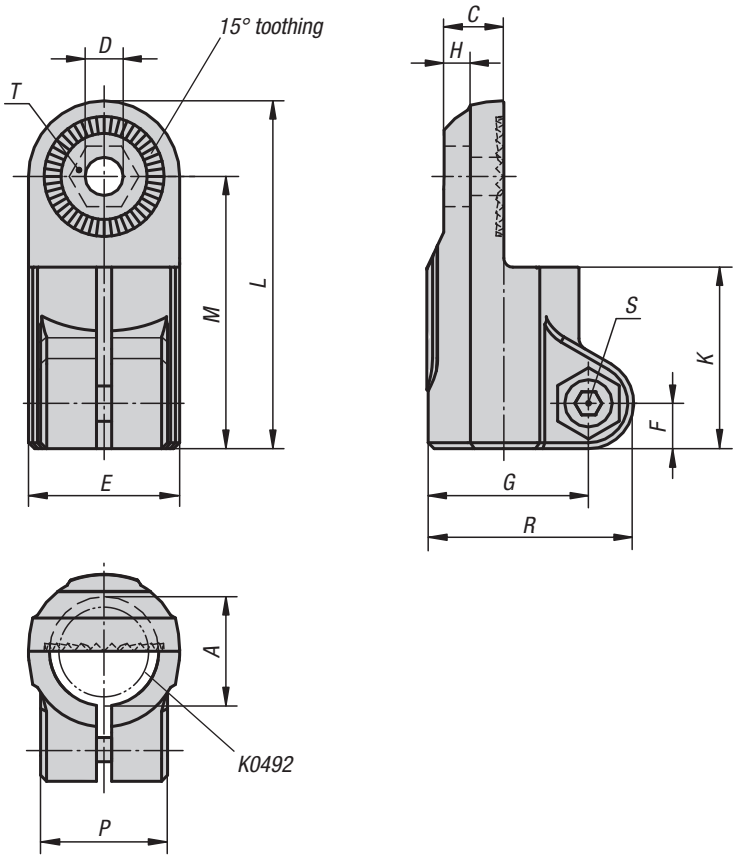
KIPP Tube clamps straight, plastic

Order No.	A	C	D	L	P	Q	R	S
K0483.18	18	34	25	65	21	50	14	M6x18
K0483.30	30	52,5	40	95	28,5	73	22,8	M8x25

Tube clamps swivel half

sunken teeth, plastic





Material:
Thermoplastic.
DIN 7984 screws and DIN 985 nuts steel.

Version:
Black.
Screws and nuts galvanized.

Sample order:
K0484.18

Note:
Swivel half clamps with sunken teeth can be combined with swivel half clamps with raised teeth (K0485) to make a complete swivel clamp.
The standard size for round tubes is Ø18 mm or Ø30 mm. Use reducer sleeves K0492 if smaller tubes are to be clamped or a conversion from round to square tubes is required.

On request:
Plastic levers for locking.

Accessories:
- Reducer sleeves K0492
- Round and square tubes K0493

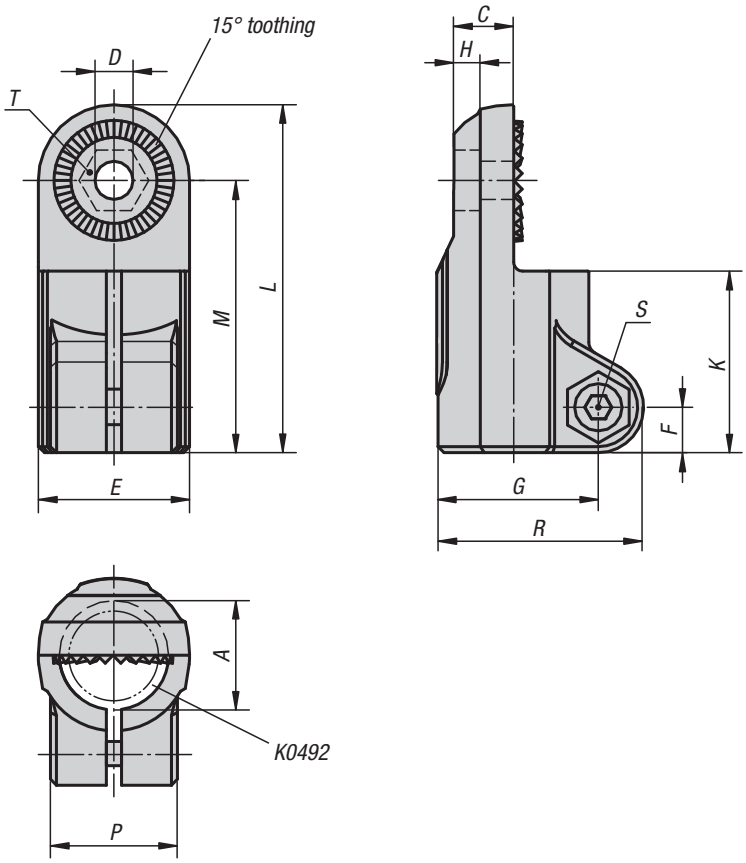
KIPP Tube clamps swivel half, sunken teeth, plastic

Order No.	A	C	D	E	F	G	H	K	L	M	P	R	S	T
K0484.18	18	9,9	6,1	25	7,5	26,5	5,9	30	57,5	45	21	34	M6x18	M6-DIN 985
K0484.30	30	16,5	8,1	40	11	41,5	6,5	45	88	68	28,5	52,5	M8x25	M8-DIN 985

Tube clamps swivel half

raised teeth, plastic





Material:
Thermoplastic.
DIN 7984 screws and DIN 985 nuts steel.

Version:
Black.
Screws and nuts galvanized.

Sample order:
K0485.18

Note:
Swivel half clamps with raised teeth can be combined with swivel half clamps with sunken teeth (K0484, K0486 or K0487) to make a complete swivel clamp. The standard size for round tubes is Ø18 mm or Ø30 mm. Use reducer sleeves K0492 if smaller tubes are to be clamped or a conversion from round to square tubes is required.

On request:
Plastic levers for locking.

Accessories:
- Reducer sleeves K0492
- Round and square tubes K0493

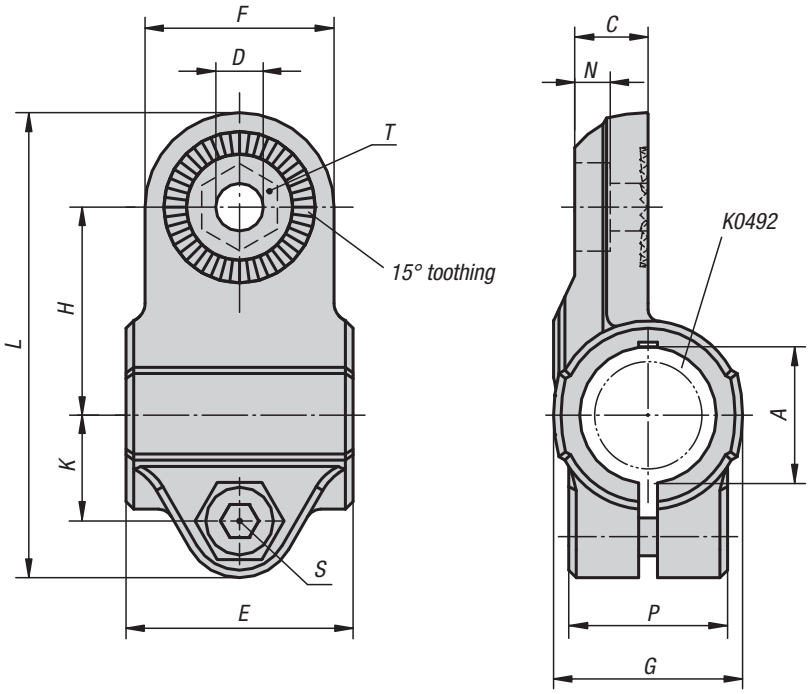
KIPP Tube clamps swivel half, raised teeth, plastic

Order No.	A	C	D	E	F	G	H	K	L	M	P	R	S	T
K0485.18	18	9,9	6,1	25	7,5	26,5	5,9	30	57,5	45	21	34	M6x18	M6-DIN 985
K0485.30	30	16,5	8,1	40	11	41,5	6,5	45	88	68	28,5	52,5	M8x25	M8-DIN 985

Tube clamps swivel half

sunken teeth, plastic





Material:
Thermoplastic.
DIN 7984 screws and DIN 985 nuts steel.

Version:
Black.
Screws and nuts galvanized.

Sample order:
K0486.18

Note:
Swivel half clamps with sunken teeth can be combined with swivel half clamps with raised teeth (K0485) to make a complete swivel clamp.
The standard size for round tubes is Ø18 mm or Ø30 mm. Use reducer sleeves K0492 if smaller tubes are to be clamped or a conversion from round to square tubes is required.

On request:
Plastic levers for locking.

Accessories:
- Reducer sleeves K0492
- Round and square tubes K0493

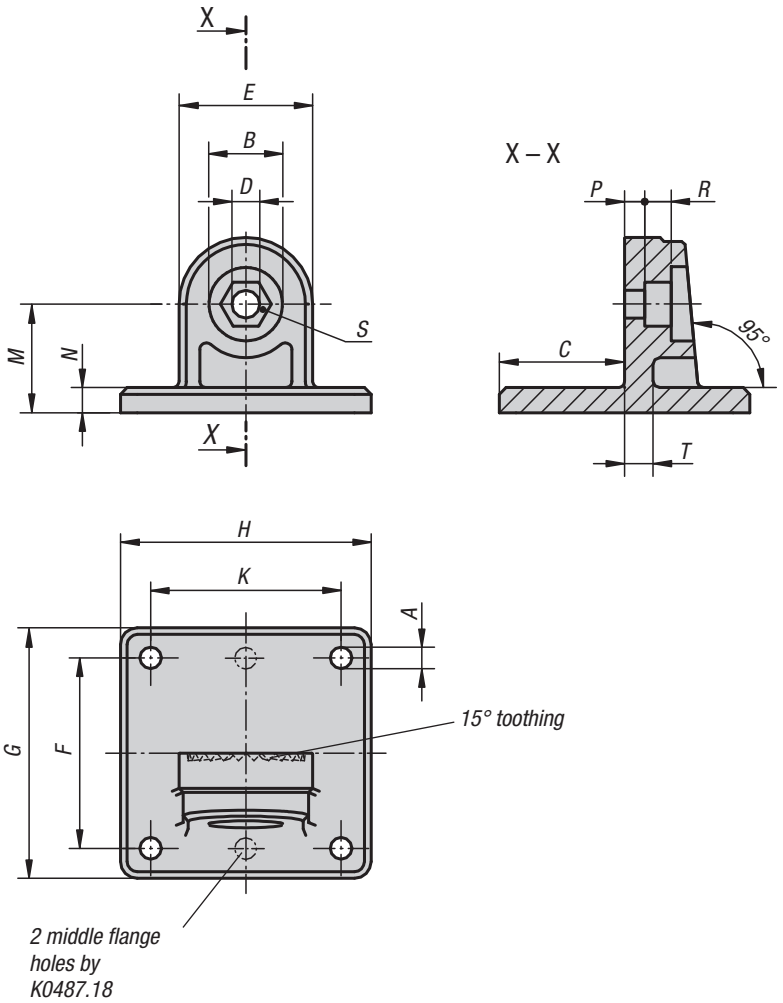
KIPP Tube clamps swivel half, sunken teeth, plastic

Order No.	A	C	D	E	F	G	H	K	L	N	P	S	T
K0486.18	18	9,7	6,1	30	25	25	27,5	14	61,5	5,7	21	M6x18	M6-DIN 985
K0486.30	30	16,5	8,1	45	40	40	43	22,5	95,5	6,5	28,5	M8x25	M8-DIN 985

Tube clamps swivel base

sunken teeth, plastic





Material:
Thermoplastic.
DIN 7984 screws and DIN 985 nuts steel.

Version:
Black.
Screws and nuts galvanized.

Sample order:
K0487.18

Note:
Swivel clamp bases can be combined with swivel half clamps with raised teeth (K0485) to make a complete swivel clamp.

On request:
Plastic levers for locking.

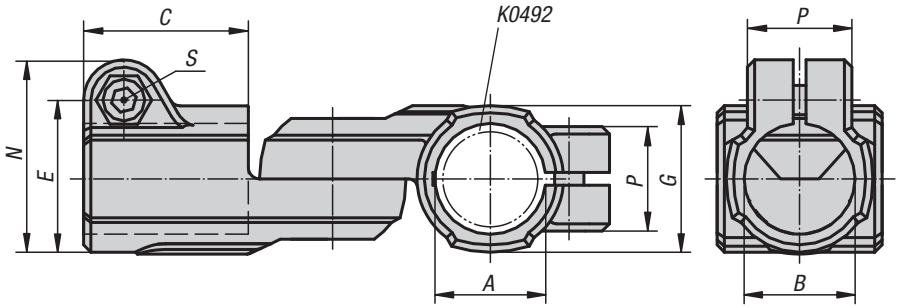
KIPP Tube clamps swivel base, sunken teeth, plastic

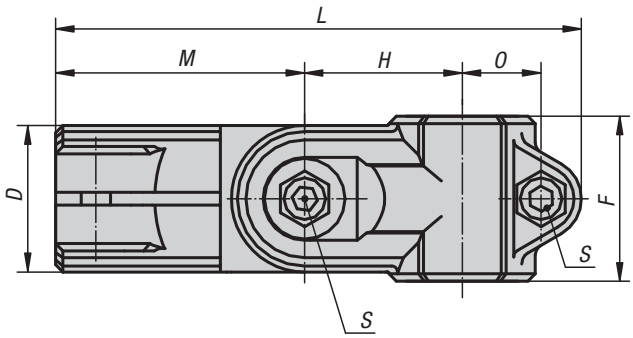
Order No.	A	B	C	D	E	F	G	H	K	M	N	P	R	S	T
K0487.18	5,3 (2x)	15	25	6,1	25	40	50	35	-	20	5	4,5	5,5	M6-DIN 985	5
K0487.30	6,5 (4x)	22	37,5	8,1	40	60	75	75	60	32,5	7,5	6,6	8,2	M8-DIN 985	7

Tube clamps swivel

plastic







Material:
Thermoplastic.
DIN 7984 screws and DIN 985 nuts steel.

Version:
Black.
Screws and nuts galvanized.

Sample order:
K0488.18

Note:
Tube swivel clamps can be seamlessly rotated through 180°.
The standard size for round tubes is Ø18 mm or Ø30 mm. Use reducer sleeves K0492 if smaller tubes are to be clamped or a conversion from round to square tubes is required.

On request:
Plastic levers for locking.

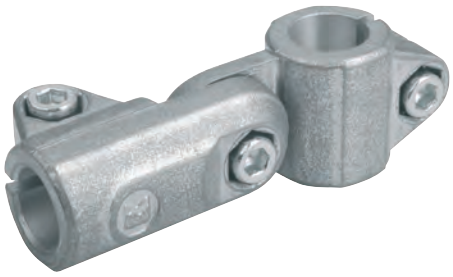
Accessories:
- Reducer sleeves K0492
- Round and square tubes K0493

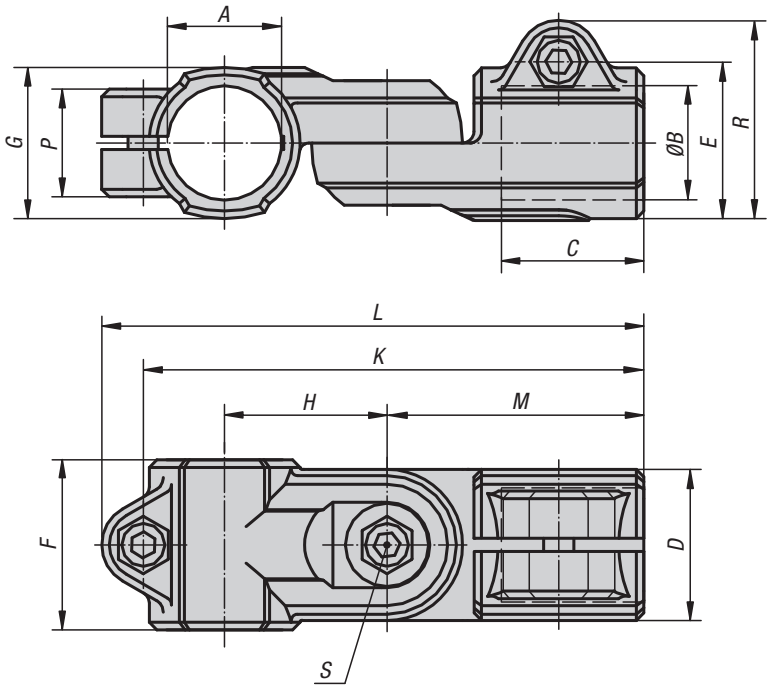
KIPP Tube clamps swivel, plastic

Order No.	A	B	C	D	E	F	G	H	L	M	N	O	P	S
K0488.18	18	18	30	25	26,5	30	25	27,5	94	45	34	14	21	M6x18
K0488.30	30	30	45	40	41,5	45	40	43	143,5	68	52,5	22,5	28,5	M8x25

Tube clamps swivel

aluminium





Material:
Cast aluminium.
DIN 7984 screws and DIN 985 nuts steel.

Version:
Vibratory ground.
Screws and nuts galvanized.

Sample order:
K0488.518

Note:
Tube swivel clamps can be seamlessly rotated through 180°.

On request:
Levers for locking and other diameters.

Accessories:
- Round and square tubes K0493

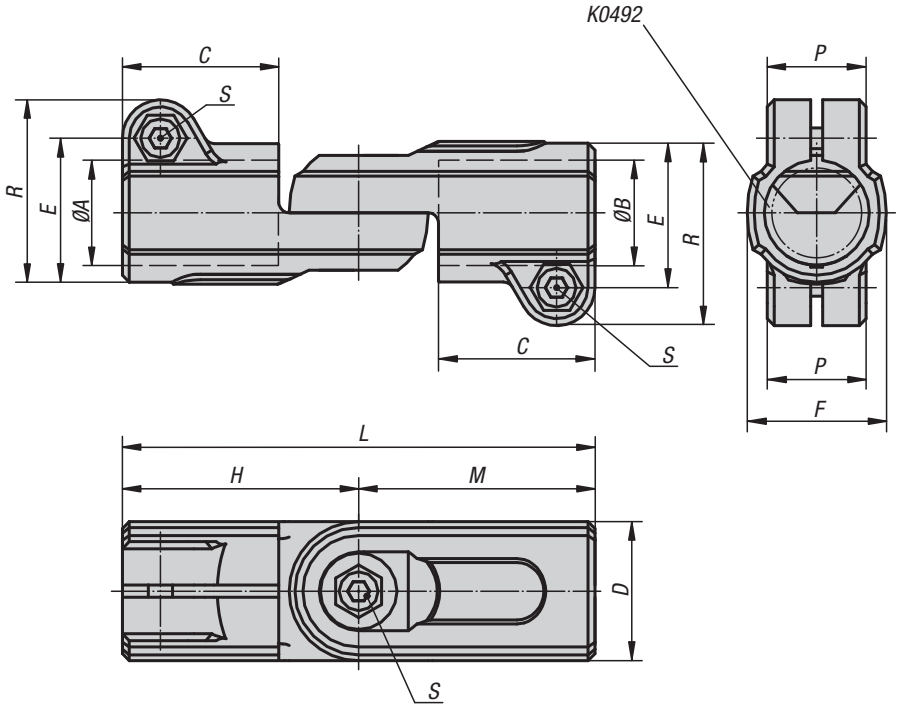
KIPP Tube clamps swivel, aluminium

Order No.	A	B	C	D	E	F	G	H	K	L	M	P	R	S
K0488.512	12,1	12,1	25	26	29,4	30	26	27	84	95,5	44	21	37,5	M6x16
K0488.514	14,1	14,1	25	26	29,4	30	26	27	84	95,5	44	21	37,5	M6x16
K0488.516	16,1	16,1	25	26	29,4	30	26	27	84	95,5	44	21	37,5	M6x16
K0488.518	18,1	18,1	25	26	29,4	30	26	27	84	95,5	44	21	37,5	M6x16
K0488.520	20,1	20,1	45	40	40	-	40	43	136	146	73	33	51	M8x35
K0488.525	25,1	25,1	45	40	40	-	40	43	136	146	73	33	51	M8x35
K0488.530	30,1	30,1	45	40	40	-	40	43	136	146	73	33	51	M8x35
K0488.540	40,2	40,2	60	56	56	-	56	60	188	200	100	48	70	M10x50

Tube clamps swivel

plastic





Material:
Thermoplastic.
DIN 7984 screws and DIN 985 nuts steel.

Version:
Black.
Screws and nuts galvanized.

Sample order:
K0489.18

Note:
Tube swivel clamps can be seamlessly rotated through 180°.
The standard size for round tubes is Ø18 mm or Ø30 mm. Use reducer sleeves K0492 if smaller tubes are to be clamped or a conversion from round to square tubes is required.

On request:
Plastic levers for locking.

Accessories:
- Reducer sleeves K0492
- Round and square tubes K0493

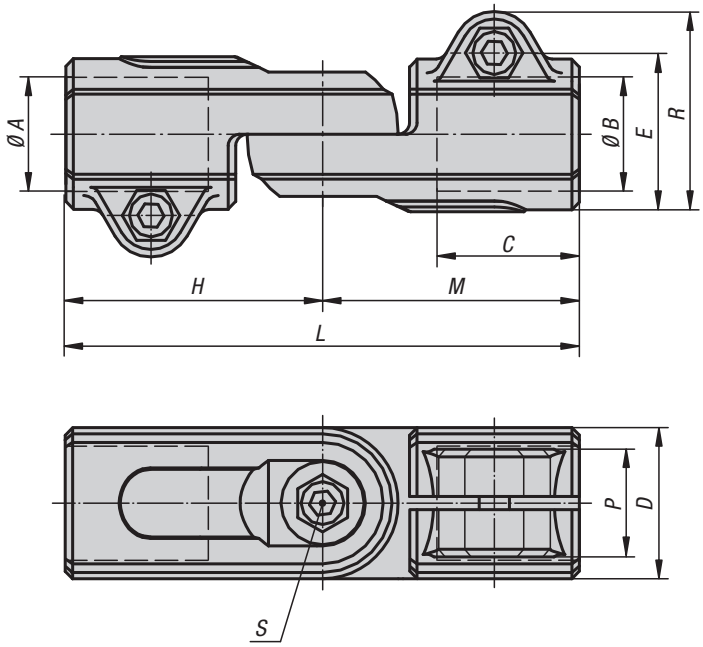
KIPP Tube clamps swivel, plastic

Order No.	A	B	C	D	E	F	H	L	M	P	R	S
K0489.18	18	18	30	25	26,5	25	45	90	45	21	34	M6x18
K0489.30	30	30	45	40	41,5	40	68	136	68	28,5	52,5	M8x25

Tube clamps swivel

aluminium





Material:
Cast aluminium.
DIN 7984 screws and DIN 985 nuts steel.

Version:
Vibratory ground.
Screws and nuts galvanized.

Sample order:
K0489.540

Note:
Tube swivel clamps can be seamlessly rotated through 180°.

On request:
Levers for locking and other diameters.

Accessories:
- Round and square tubes K0493

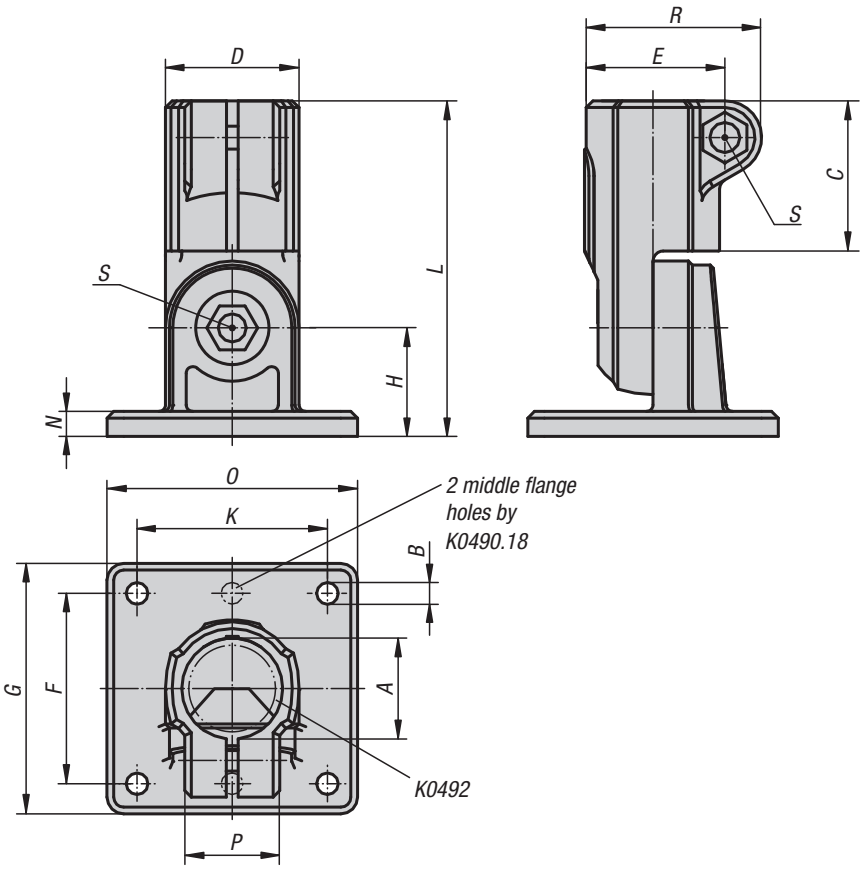
KIPP Tube clamps swivel, aluminium

Order No.	A	B	C	D	E	H	L	M	P	R	S
K0489.512	12,1	12,1	25	26	29,4	44	88	44	21	37,5	M6x16
K0489.514	14,1	14,1	25	26	29,4	44	88	44	21	37,5	M6x16
K0489.516	16,1	16,1	25	26	29,4	44	88	44	21	37,5	M6x16
K0489.518	18,1	18,1	25	26	29,4	44	88	44	21	37,5	M6x16
K0489.520	20	20	45	40	40	73	146	73	33	51	M8x35
K0489.525	25,1	25,1	45	40	40	73	146	73	33	51	M8x35
K0489.530	30,1	30,1	43	40	40	73	146	73	33	51	M8x35
K0489.540	40,15	40,15	59	56	58	100	200	100	48	70	M10x50

Tube clamps swivel base

plastic





Material:
Thermoplastic.
DIN 7984 screws and DIN 985 nuts steel.

Version:
Black.
Screws and nuts galvanized.

Sample order:
K0490.18

Note:
Tube swivel clamps can be seamlessly rotated through 180°.
The standard size for round tubes is Ø18 mm or Ø30 mm. Use reducer sleeves K0492 if smaller tubes are to be clamped or a conversion from round to square tubes is required.

On request:
Plastic levers for locking.

Accessories:
- Reducer sleeves K0492
- Round and square tubes K0493

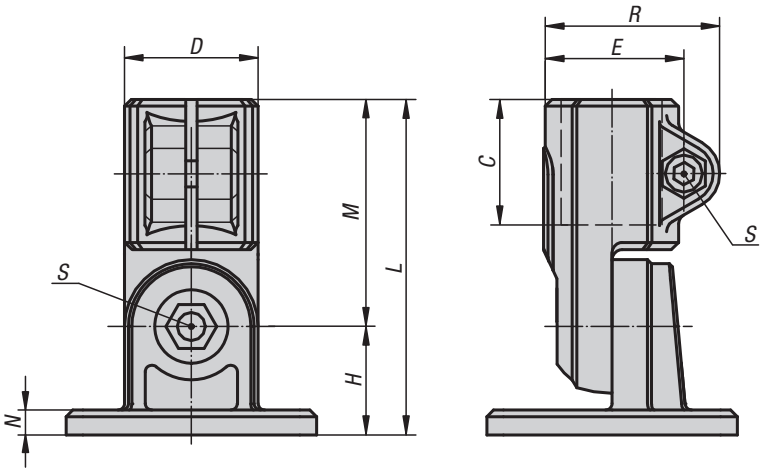
KIPP Tube clamps swivel base, plastic

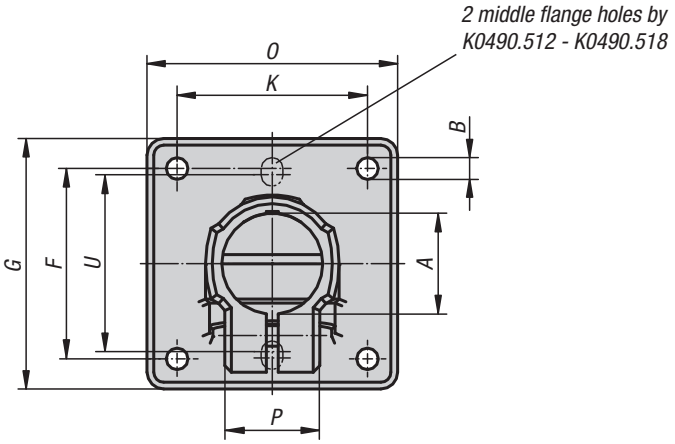
Order No.	A	B	C	D	E	F	G	H	K	L	N	O	P	R	S
K0490.18	18	5,3 (2x)	30	25	26,5	40	50	20	-	65	5	35	21	34	M6x18
K0490.30	30	6,5 (4x)	45	40	41,5	60	75	32,5	60	100,5	7,5	75	28,5	52,5	M8x25

Tube clamps swivel base

aluminium







Material:
Cast aluminium.
DIN 7984 screws and DIN 985 nuts steel.

Version:
Vibratory ground.
Screws and nuts galvanized.

Sample order:
K0490.518

Note:
Tube swivel clamps can be seamlessly rotated through 180°.

* Elongated hole

On request:
Levers for locking and other diameters.

Accessories:
- Round and square tubes K0493

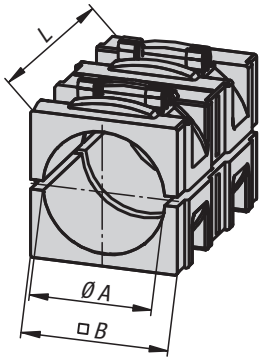
KIPP Tube clamps swivel base, aluminium

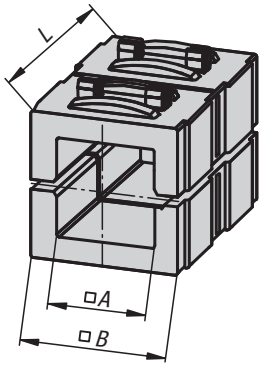
Order No.	A	B	C	D	E	F	G	H	K	L	M	N	O	P	R	S	U
K0490.512	12,1	5,3* (2x)	25	26	29,4	40	50	20	-	64	44	5	35	21	37,5	M6x16	38
K0490.514	14,1	5,3* (2x)	25	26	29,4	40	50	20	-	64	44	5	35	21	37,5	M6x16	38
K0490.516	16,1	5,3* (2x)	25	26	29,4	40	50	20	-	64	44	5	35	21	37,5	M6x16	38
K0490.518	18,1	5,3* (2x)	25	26	29,4	40	50	20	-	64	44	5	35	21	37,5	M6x16	38
K0490.520	20	6,5 (4x)	45	40	40	57	75	33	57	106	73	7	75	33	51	M8x35	-
K0490.525	25,1	6,5 (4x)	45	40	40	57	75	33	57	106	73	7	75	33	51	M8x35	-
K0490.530	30,1	6,5 (4x)	45	40	40	57	75	33	57	106	73	7	75	33	51	M8x35	-
K0490.540	40,2	8,5 (4x)	60	56	56	76	100	44	76	144	100	10	100	48	68	M10x50	-

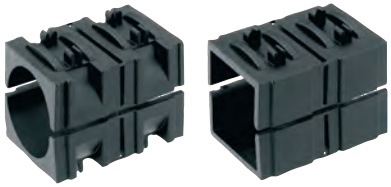
K0491

Reducer sleeves

square







Material:
Thermoplastic.

Version:
black.

Sample order:
K0491.03020

Note:
Reducer sleeves are for clamping smaller tubes or where a conversion of square to round tubes is required.

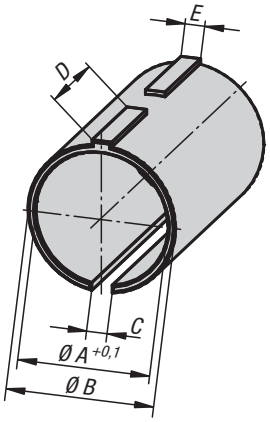
KIPP Reducer sleeves, square

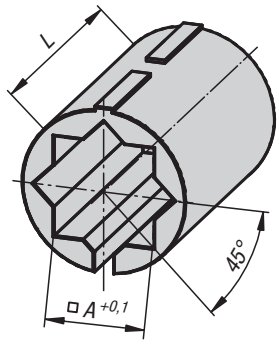
Order No.	Version	A	B	L
K0491.03020	round	Ø 20,25	30,3	45
K0491.03025	round	Ø 25,25	30,3	45
K0491.03030	round	Ø 30,25	30,3	45
K0491.13020	square	20,5	30,3	45
K0491.13025	square	25,5	30,3	45

K0492

Reducer sleeves

round







Material:
Thermoplastic.

Version:
black.

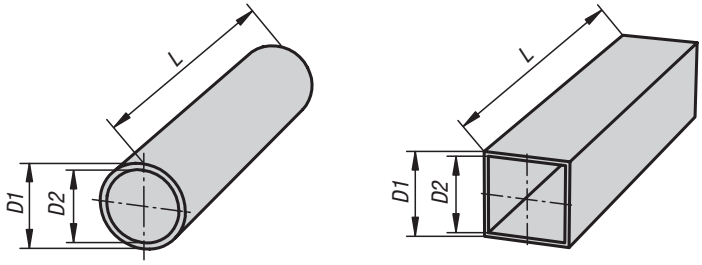
Sample order:
K0492.03020

Note:
Reducer sleeves are for clamping smaller tubes or where a conversion of round to square tubes is required.

KIPP Reducer sleeves, round

Order No.	Version	A	B	C	D	E	L
K0492.01812	round	12,25	18	2,5	11,9	2,4	30
K0492.01814	round	14,25	18	2,5	11,9	2,4	30
K0492.01815	round	15,25	18	2,5	11,9	2,4	30
K0492.01816	round	16,25	18	2,5	11,9	2,4	30
K0492.03020	round	20,25	30	3,5	18,9	3,4	45
K0492.03025	round	25,25	30	3,5	18,9	3,4	45
K0492.11810	square	10,25	18	2,5	11,9	2,4	30
K0492.13020	square	20,25	30	3,5	18,9	3,4	45

Round and square tubes





Material:
Steel 1.0037.
Aluminium EN AW-6060.

Version:
Steel galvanized.
Aluminium clear anodized.

Sample order:
K0493.0112X500 (include length L)

Note:
The machining tolerances of these round and square tubes are specially suited to the tube clamping system.

* solid bar.

On request:
- stainless steel tubes
- aluminium tubes, black anodized
- customer specific lengths

KIPP Round tubes

Order No.	Main material	Description	D1	D2	L
K0493.0112X	steel	Ø12 x 1,5	12 ±0,1	9	500/1000/2000
K0493.0114X	steel	Ø14 x 1,5	14 ±0,1	11	500/1000/2000
K0493.0115X	steel	Ø15 x 1,5	15 ±0,1	12	500/1000/2000
K0493.0116X	steel	Ø16 x 1,5	16 ±0,1	13	500/1000/2000
K0493.0118X	steel	Ø18 x 1,5	18 ±0,1	15	500/1000/2000
K0493.0120X	steel	Ø20 x 2	20 ±0,1	16	500/1000/2000
K0493.0125X	steel	Ø25 x 2	25 ±0,1	21	500/1000/2000
K0493.0130X	steel	Ø30 x 2	30 ±0,1	26	500/1000/2000
K0493.0140X	steel	Ø40 x 4	40 ±0,15	32	500/1000/2000
K0493.0150X	steel	Ø50 x 4	50 ±0,2	42	500/1000/2000
K0493.0220X	aluminium	Ø20 x 3	20	14	500/1000/2000
K0493.0230X	aluminium	Ø30 x 2	30 ±0,1	26	500/1000/2000
K0493.0240X	aluminium	Ø40 x 3	40 ±0,15	34	500/1000/2000
K0493.0250X	aluminium	Ø50 x 3	50 ±0,2	44	500/1000/2000

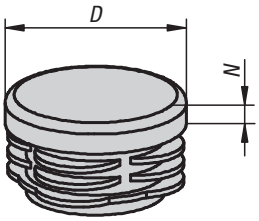
KIPP Square tubes

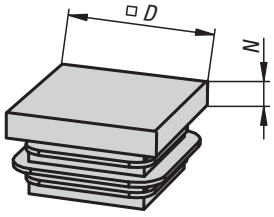
Order No.	Main material	Description	D1	D2	L
K0493.4120X	steel	20 x 20 x 1	20 ±0,3	18	500/1000/2000
K0493.4125X	steel	25 x 25 x 1,5	25 ±0,3	22	500/1000/2000
K0493.4130X	steel	30 x 30 x 2	30 ±0,3	26	500/1000/2000
K0493.4140X	steel	40 x 40 x 3	40 ±0,4	34	500/1000/2000
K0493.4210X	aluminium	10 x 10	10*	-	500/1000/2000
K0493.4220X	aluminium	20 x 20 x 1,5	20 ±0,2	17	500/1000/2000
K0493.4230X	aluminium	30 x 30 x 2	30 ±0,2	26	500/1000/2000
K0493.4240X	aluminium	40 x 40 x 4	40 ±0,3	32	500/1000/2000

Tube end plugs









Material:
Thermoplastic.

Version:
black.

Sample order:
K0494.025200

Note:
These plugs are for corner protection and plugging the tube ends. They can be pushed in by hand or tapped in with a plastic hammer.

KIPP Tube end plugs

Order No.	Version	D	N	Suitable for
K0494.018150	for round tubes	18	5	Ø18 x 1,5
K0494.020200	for round tubes	20	5	Ø20 x 2
K0494.025200	for round tubes	25	5	Ø25 x 2
K0494.030200	for round tubes	30	5	Ø30 x 2
K0494.040300	for round tubes	40	5	Ø40 x 3
K0494.040400	for round tubes	40	5	Ø40 x 4
K0494.050400	for round tubes	50	5	Ø50 x 3 / Ø50 x 4
K0494.420100	for square tubes	20	5	20 x 20 x 1
K0494.425150	for square tubes	25	5	25 x 25 x 1,5
K0494.430200	for square tubes	30	5	30 x 30 x 2
K0494.440300	for square tubes	40	5	40 x 40 x 3
K0494.440400	for square tubes	40	5	40 x 40 x 4

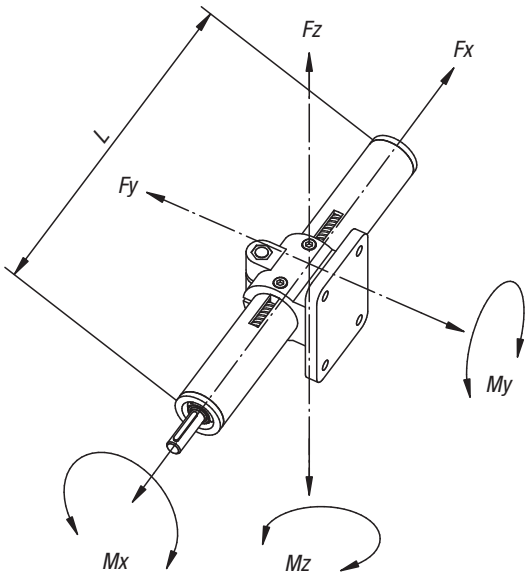
Technical information on linear actuators

These linear actuators are efficient, economical and universally applicable. They ideally combine high rigidity, low deflection, high loads and easy handling. Four sizes are available for different applications and loads (tube sizes from Ø18 mm to Ø50 mm).

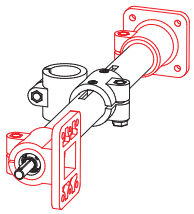
Load data*:
F force [N]
M moment [Nm]
I area moment of inertia [cm4]

Features:
– Standard travel over 2000 mm possible
– Position accuracy up to ±0.2 mm / 300 mm
– Travel speed up to 1.5 m/min
– Drive by trapezoid thread spindle
– Mounting position optional

Technical description:
In a tube, a threaded spindle mounted on bearings with guide nut converts a rotation into linear movement of a carriage. The nut has a carrier key to prevent it turning.



Mounting the linear actuator:
Depending on the mounting position and application, linear actuators can be mounted using our tube clamping elements.



Speed:

n = required spindle speed.

max. spindle speed with:
plain bearing 80 rpm.
ball bearing 250 rpm.

Type E	Pitch mm
18	2
30	3
40	4
50	4

$$n\ [rpm] = \frac{\text{Speed [m/min] x 1000[mm]}}{\text{Spindle pitch [mm]}}$$

Length	Fx 500	Fy 500 / 1000 / 1500	Fz 500 / 1000 / 1500
Type E 18	400	90 / 10 / -	60 / 8 / -
Type E 30	800	500 / 60 / 10	500 / 50 / 9
Type E 40	1000	2100 / 250 / 60	1900 / 140 / 50
Type E 50	1700	3000 / 600 / 140	3000 / 600 / 140

Idling torques:

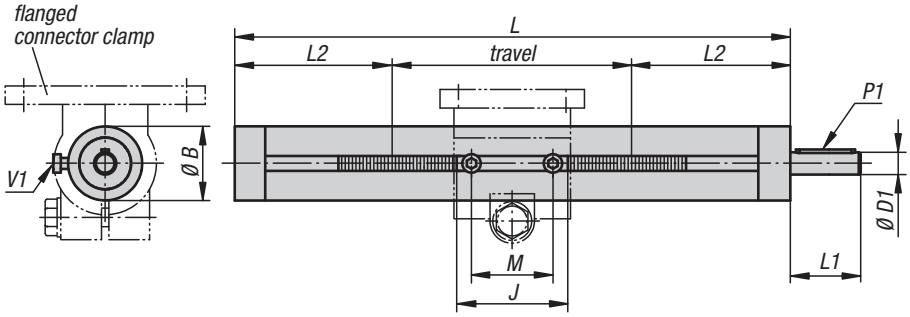
Type E	Spindle with slide bearing [Nm]	Spindle with ball bearings [Nm]
18	-	0,20
30	0,45	0,35
40	0,65	0,50
50	1,20	0,90

Type E	Mx	My	Mz	Iy	Iz
18	1,5	4	4	0,22	0,27
30	6	15	15	1,34	1,56
40	14	40	40	4,58	5,24
50	30	65	65	11,31	12,32

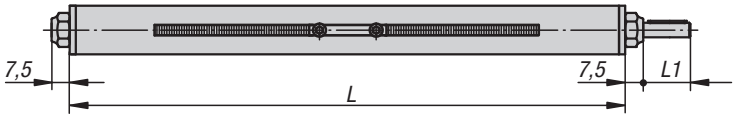
* refers to guides (guide element deflection f = 0.5 mm, static, end elements supported)

Linear actuators





Linear actuator
K0495.18...



Material, version:
Precision tube DIN EN 10305, stainless steel 1.4301.
For type E 18, galvanized steel.
Trapezoid thread spindle steel, RH thread, rolled.

Sample order:
K0495.300001X500

Note:
Medium speed range, self-locking.

On request:
LH thread, stainless steel, 2 drive pins, other travel lengths, handwheels.

Accessories:
- Guide clamps K0496, K0497, K0498, K0499
- Tube clamps form our tube clamping system

Functional principle:
A rotating movement of the threaded spindle is converted into a linear movement of the guide carriage.

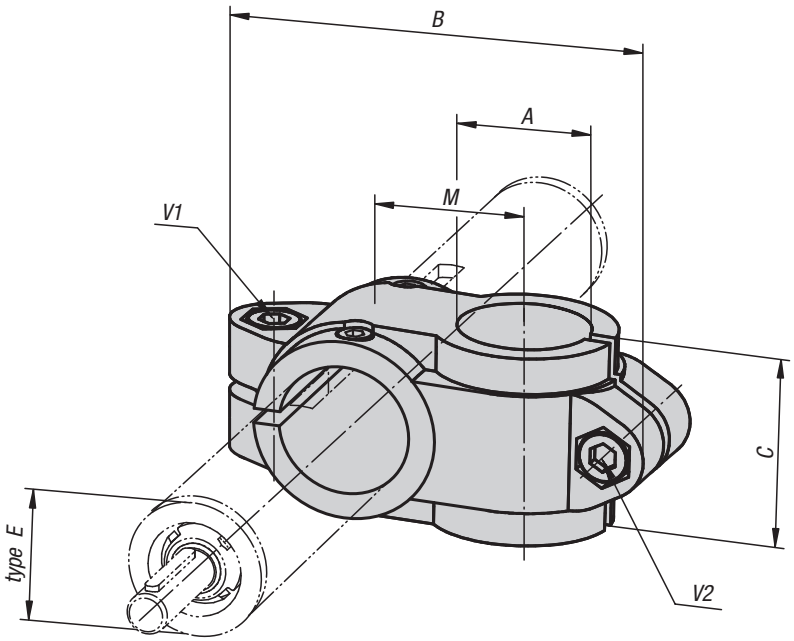
KIPP Linear actuators

Order No.	Version	Type E	Spindle	L Standard length	Travel	B	D1	J	L1	L2	M	P1 parallel key DIN 6885	V1
K0495.300001X300	plain bearing	30	Tr 14x3	300	100	30	8 h8	38	26	100	28	2 x 2 x 20	M4x8
K0495.300001X500	plain bearing	30	Tr 14x3	500	300	30	8 h8	38	26	100	28	2 x 2 x 20	M4x8
K0495.300001X800	plain bearing	30	Tr 14x3	800	600	30	8 h8	38	26	100	28	2 x 2 x 20	M4x8
K0495.400001X300	plain bearing	40	Tr 20x4	300	91	40	12 h8	55	38	104,5	44	4 x 4 x 32	M6x10
K0495.400001X500	plain bearing	40	Tr 20x4	500	291	40	12 h8	55	38	104,5	44	4 x 4 x 32	M6x10
K0495.400001X800	plain bearing	40	Tr 20x4	800	591	40	12 h8	55	38	104,5	44	4 x 4 x 32	M6x10
K0495.400001X1000	plain bearing	40	Tr 20x4	1000	791	40	12 h8	55	38	104,5	44	4 x 4 x 32	M6x10
K0495.500001X500	plain bearing	50	Tr 20x4	500	265	50	12 h8	63	38	117,5	44	4 x 4 x 32	M6x10
K0495.500001X800	plain bearing	50	Tr 20x4	800	565	50	12 h8	63	38	117,5	44	4 x 4 x 32	M6x10
K0495.500001X1000	plain bearing	50	Tr 20x4	1000	765	50	12 h8	63	38	117,5	44	4 x 4 x 32	M6x10
K0495.180101X300	ball bearing	18	Tr 10x2	300	145	18	6 h9	24	17	77,5	18	2 x 2 x 12	M3x5
K0495.180101X500	ball bearing	18	Tr 10x2	500	345	18	6 h9	24	17	77,5	18	2 x 2 x 12	M3x5
K0495.300101X300	ball bearing	30	Tr 14x3	300	100	30	8 h8	38	26	100	28	2 x 2 x 20	M4x8
K0495.300101X500	ball bearing	30	Tr 14x3	500	300	30	8 h8	38	26	100	28	2 x 2 x 20	M4x8
K0495.300101X800	ball bearing	30	Tr 14x3	800	600	30	8 h8	38	26	100	28	2 x 2 x 20	M4x8
K0495.400101X300	ball bearing	40	Tr 20x4	300	91	40	12 h8	55	38	104,5	44	4 x 4 x 32	M6x10
K0495.400101X500	ball bearing	40	Tr 20x4	500	291	40	12 h8	55	38	104,5	44	4 x 4 x 32	M6x10
K0495.400101X800	ball bearing	40	Tr 20x4	800	591	40	12 h8	55	38	104,5	44	4 x 4 x 32	M6x10
K0495.400101X1000	ball bearing	40	Tr 20x4	1000	791	40	12 h8	55	38	104,5	44	4 x 4 x 32	M6x10
K0495.500101X500	ball bearing	50	Tr 20x4	500	265	50	12 h8	63	38	117,5	44	4 x 4 x 32	M6x10
K0495.500101X800	ball bearing	50	Tr 20x4	800	565	50	12 h8	63	38	117,5	44	4 x 4 x 32	M6x10
K0495.500101X1000	ball bearing	50	Tr 20x4	1000	765	50	12 h8	63	38	117,5	44	4 x 4 x 32	M6x10

Linear actuator connector clamps

cross





Material:
Cast aluminium.
DIN 7984 screws and DIN 985 nuts steel.

Version:
Black powder-coated.
Screws and nuts galvanized.

Sample order:
K0496.1818

On request:
Levers for locking.

KIPP Linear actuator connector clamps cross

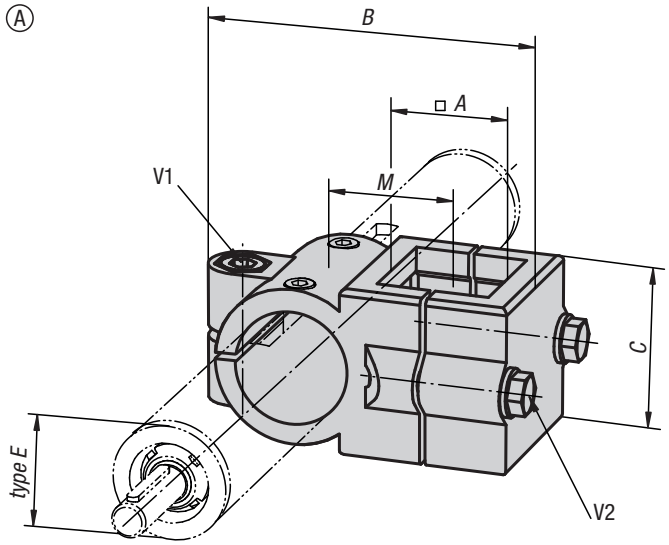
Order No.	Type E	A	B	C	M	V1	V2
K0496.1818	18	18	66	25,5	20	M6x16	M6x16
K0496.3020	30	20	99	40	33	M8x25	M8x25
K0496.3030	30	30	99	40	33	M8x25	M8x25
K0496.4020	40	20	109	40	36	M10x30	M8x25
K0496.4040	40	40	137	60	45	M10x30	M10x30
K0496.5040	50	40	154	70	54	M10x35	M10x35
K0496.5050	50	50	154	70	54	M10x35	M10x35

Linear actuator connector clamps

cross



Ⓐ



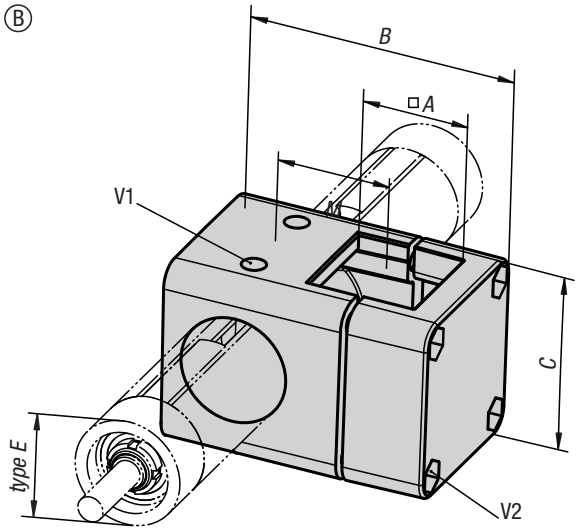
Material:
Cast aluminium.
Screws and nuts steel.

Version:
Black powder-coated.
Clamping screws and nuts galvanized.

Sample order:
K0497.4040

On request:
Levers for locking.

Ⓑ



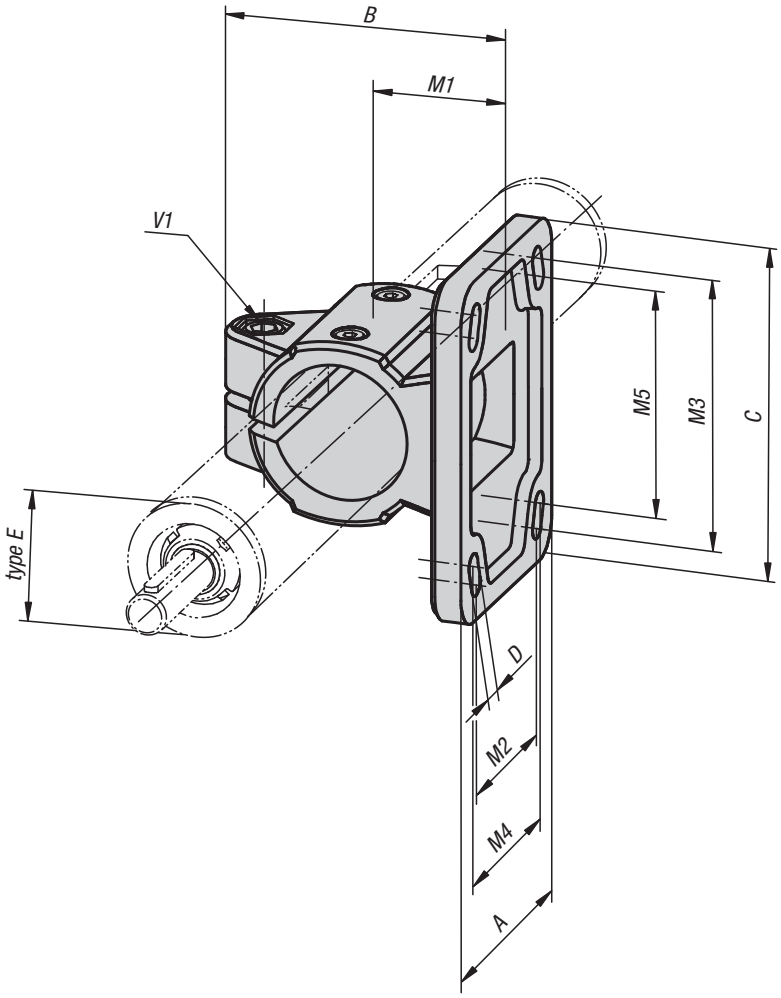
KIPP Linear actuator connector clamps cross

Order No.	Form	Type E	A	B	C	M	V1	V2
K0497.3030	A	30	30	86	45	33	M8x35	M8x35
K0497.4040	A	40	40	117	60	47	M10x50	M8x45
K0497.5050	B	50	50	126	86	53	M8x50	M8x50

Linear actuator connector clamps

flange





Material:
Cast aluminium.
DIN 7984 screws and DIN 985 nuts steel.

Version:
Black powder-coated.
Screws and nuts galvanized.

Sample order:
K0498.50

Note:
* Elongated hole

On request:
Levers for locking.

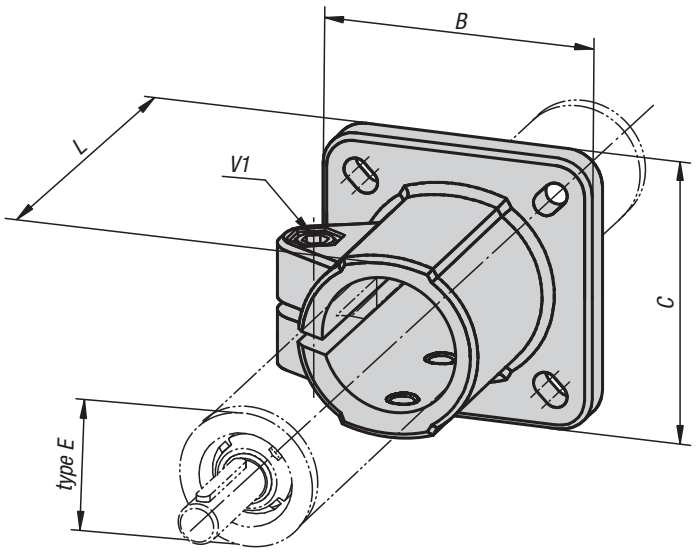
KIPP Linear actuator connector clamps flange

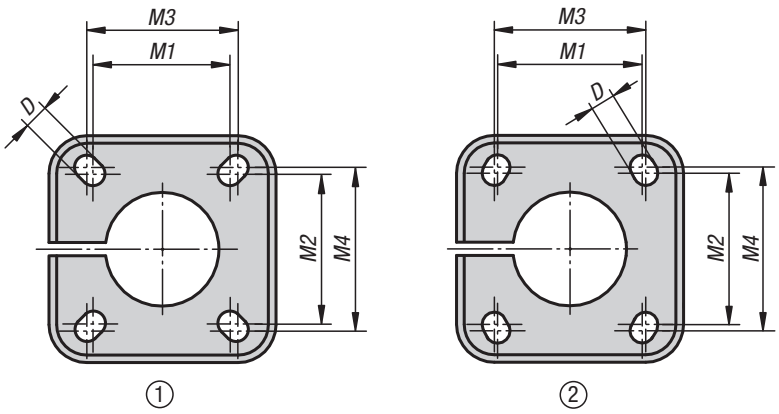
Order No.	Type E	A	B	C	D	M1	M2	M3	M4	M5	V1
K0498.18	18	37	42,5	50	5,5 (2x)	18	-	40	-	-	M6x16
K0498.30	30	55	63	78	6,5* (2x)	30	-	60	-	53	M8x25
K0498.40	40	80	87	105	8,5* (4x)	42	52	82	60	80	M10x30
K0498.50	50	92	100	130	10,5* (4x)	50	60	100	62	98	M10x35

Linear actuator connector clamps

base







Material:
Cast aluminium.
DIN 7984 screws and DIN 985 nuts steel.

Version:
Black powder-coated.
Screws and nuts galvanized.

Sample order:
K0499.30

On request:
Levers for locking.

KIPP Linear actuator connector clamps base

Order No.	hole arrangement	Type E	B	C	D	L	M1	M2	M3	M4	V1
K0499.18	1	18	42	42	5,5	37	28	28	30	30	M6x20
K0499.30	2	30	60	60	6,5	50	40	42	42	45	M8x25
K0499.40	1	40	90	90	8,5	70	60	60	64	64	M10x30
K0499.50	1	50	105	105	10,5	85	74	74	80	80	M10x35

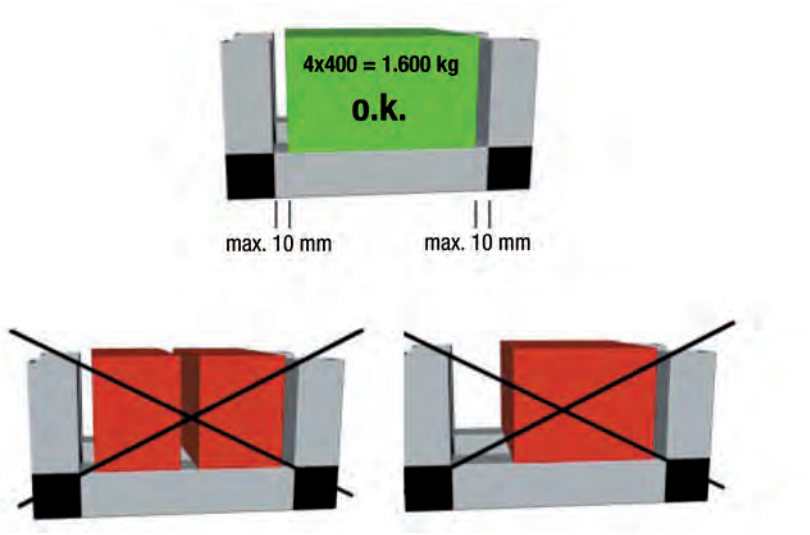
Notes

Technical information
Square tube connectors

High quality plastic tube connectors with steel core for joining square tubing
Creative use of these square tube connectors together with the specially developed aluminium profiles leads to unlimited construction possibilities. The system can be combined with many different materials e.g. laminated chipboard, glass or plastic plates. No screws required, the connectors are simply pushed into the appropriate square tubing. They can be dismantled and reused repeatedly. If removal should be prevented the connectors can be secured by gluing, screws or rivets.

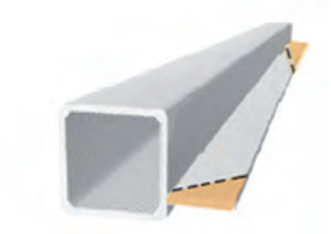
Loading of square tube connectors
25x25x1.5 and 30x30x2 square tube connectors with steel core have a compressive strength of max. 400 kg per horizontal spigot under the following conditions:

- the spacing between the exterior wall of the vertical tube and the outer edge of the load must not exceed 10 mm.
- the underside of the load is rigid enough that the applied force occurs only at the load corners (see diagram).
- the load is static i.e. no dynamic stress due to moving loads.



Note:
Using items such as adjustable glides, screw plugs and swivel feet with the tube connectors can decrease the load values for the entire unit.

Mitre cuts
Mitre cuts are required when finned square tubes are joined together with tube connectors at an angle. On request, we can supply our finned square tubes pre-cut with mitre cuts.

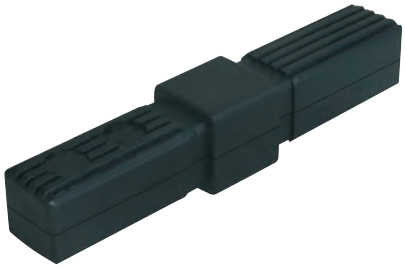


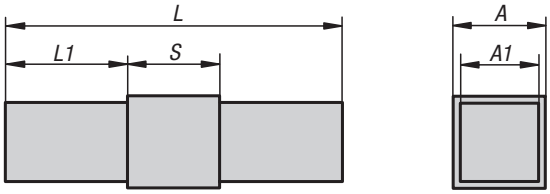
By mitre cuts the tube end is cut at 90° and a cut of 45° is made on the fin.

Anodizing on the tube occurs prior to the cut, so cut edges are not anodized.

Square tube connectors

straight





Material, version:
Polyamide PA, black.
Core galvanized steel.

Sample order:
K0615.1201512

Note:
No screws required. The tube connectors are simply pushed into the appropriate square tubing. They can be dismantled and reused repeatedly.

Accessories:
- Square tubes K0627
- Finned square tubes K0628



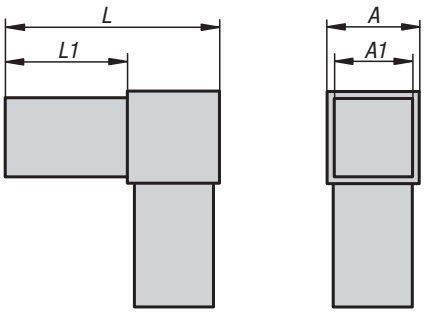
KIPP Square tube connectors, straight

Order No.	A	A1	L	L1	S	Suitable for square tubes
K0615.1201512	20	17	95	45	5	20 x 20 x 1,5
K0615.1251512	25	22	133	54	25	25 x 25 x 1,5
K0615.1302012	30	26	122	46	30	30 x 30 x 2

Square tube connectors

two-way





Material, version:
Polyamide PA, black.
Core galvanized steel.

Sample order:
K0616.1201512

Note:
No screws required. The tube connectors are simply pushed into the appropriate square tubing. They can be dismantled and reused repeatedly.

Accessories:
- Square tubes K0627
- Finned square tubes K0628



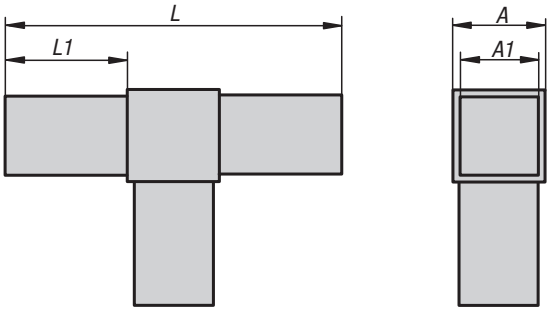
KIPP Square tube connectors, two-way

Order No.	A	A1	L	L1	Suitable for square tubes
K0616.1201512	20	17	56	36	20 x 20 x 1,5
K0616.1251512	25	22	77	52	25 x 25 x 1,5
K0616.1302012	30	26	77	47	30 x 30 x 2

Square tube connectors

three-way, flat





Material, version:
Polyamide PA, black.
Core galvanized steel.

Sample order:
K0617.1201512

Note:
No screws required. The tube connectors are simply pushed into the appropriate square tubing. They can be dismantled and reused repeatedly.

Accessories:
- Square tubes K0627
- Finned square tubes K0628



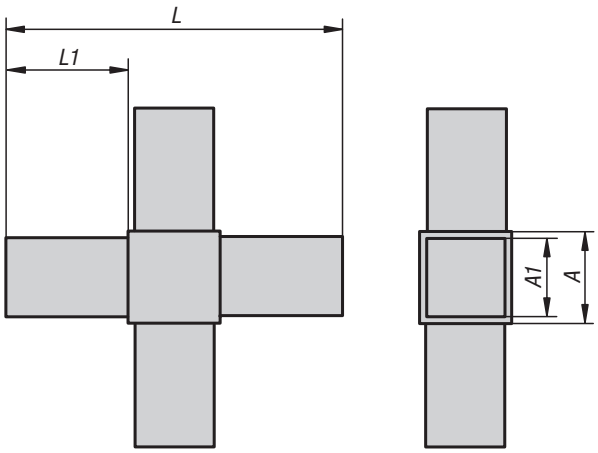
KIPP Square tube connectors, three-way, flat

Order No.	A	A1	L	L1	Suitable for square tubes
K0617.1201512	20	17	92	36	20 x 20 x 1,5
K0617.1251512	25	22	127	51	25 x 25 x 1,5
K0617.1302012	30	26	124	47	30 x 30 x 2

Square tube connectors

four-way, flat



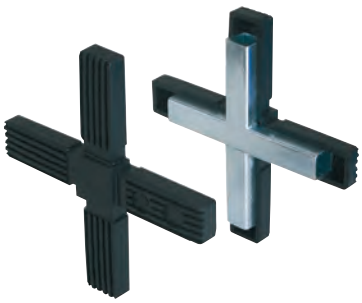


Material, version:
Polyamide PA, black.
Core galvanized steel.

Sample order:
K0618.1201512

Note:
No screws required. The tube connectors are simply pushed into the appropriate square tubing. They can be dismantled and reused repeatedly.

Accessories:
- Square tubes K0627
- Finned square tubes K0628



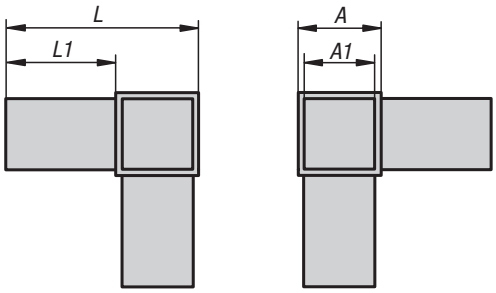
KIPP Square tube connectors, four-way, flat

Order No.	A	A1	L	L1	Suitable for square tubes
K0618.1201512	20	17	92	36	20 x 20 x 1,5
K0618.1251512	25	22	127	51	25 x 25 x 1,5
K0618.1302012	30	26	124	47	30 x 30 x 2

Square tube connectors

three-way





Material, version:
Polyamide PA, black.
Core galvanized steel.

Sample order:
K0619.1201512

Note:
No screws required. The tube connectors are simply pushed into the appropriate square tubing. They can be dismantled and reused repeatedly.

Accessories:
- Square tubes K0627
- Finned square tubes K0628



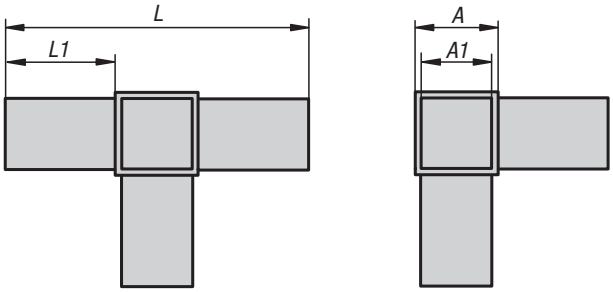
KIPP Square tube connector, three-way

Order No.	A	A1	L	L1	Suitable for square tubes
K0619.1201512	20	17	56	36	20 x 20 x 1,5
K0619.1251512	25	22	77	52	25 x 25 x 1,5
K0619.1302012	30	26	77	47	30 x 30 x 2

Square tube connectors

four-way





Material, version:
Polyamide PA, black.
Core galvanized steel.

Sample order:
K0620.1201512

Note:
No screws required. The tube connectors are simply pushed into the appropriate square tubing. They can be dismantled and reused repeatedly.

Accessories:
- Square tubes K0627
- Finned square tubes K0628



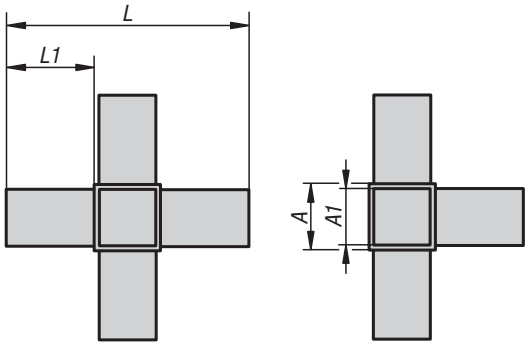
KIPP Square tube connectors, four-way

Order No.	A	A1	L	L1	Suitable for square tubes
K0620.1201512	20	17	92	36	20 x 20 x 1,5
K0620.1251512	25	22	129	52	25 x 25 x 1,5
K0620.1302012	30	26	124	47	30 x 30 x 2

Square tube connectors

five-way



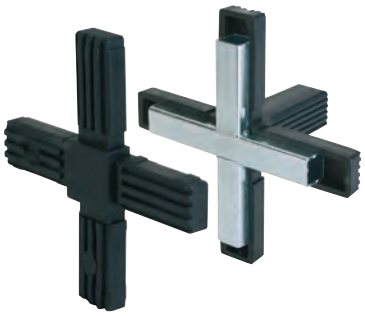


Material, version:
Polyamide PA, black.
Core galvanized steel.

Sample order:
K0621.1201512

Note:
No screws required. The tube connectors are simply pushed into the appropriate square tubing. They can be dismantled and reused repeatedly.

Accessories:
- Square tubes K0627
- Finned square tubes K0628

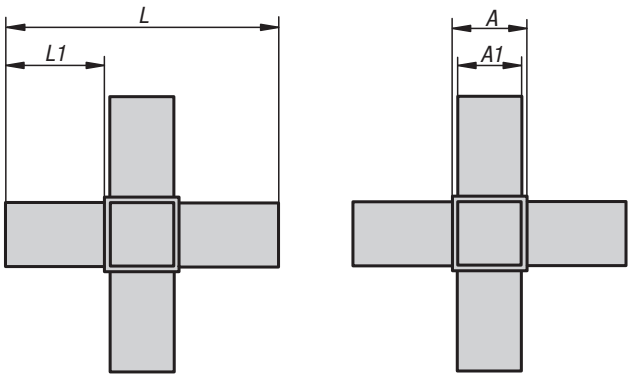


KIPP Square tube connectors, five-way

Order No.	A	A1	L	L1	Suitable for square tubes
K0621.1201512	20	17	92	36	20 x 20 x 1,5
K0621.1251512	25	22	133	54	25 x 25 x 1,5
K0621.1302012	30	26	124	47	30 x 30 x 2

Square tube connectors

six-way





Material, version:
Polyamide PA, black.
Core galvanized steel.

Sample order:
K0622.1201512

Note:
No screws required. The tube connectors are simply pushed into the appropriate square tubing. They can be dismantled and reused repeatedly.

Accessories:
- Square tubes K0627
- Finned square tubes K0628



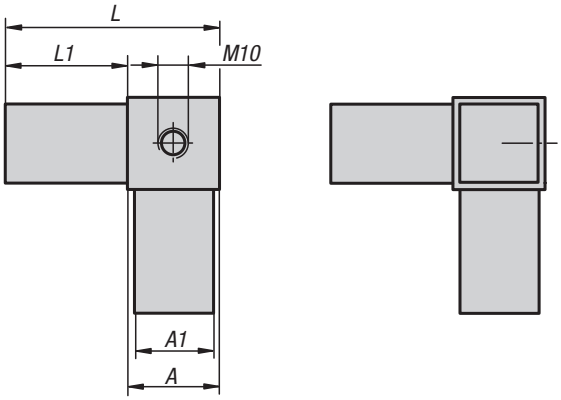
KIPP Square tube connectors, six-way

Order No.	A	A1	L	L1	Suitable for square tubes
K0622.1201512	20	17	92	36	20 x 20 x 1,5
K0622.1251512	25	22	129	52	25 x 25 x 1,5
K0622.1302012	30	26	124	47	30 x 30 x 2

Square tube connectors

three-way with tapped hole





Material, version:
Polyamide PA, black.
Core galvanized steel.

Sample order:
K0623.125151210

Note:
No screws required. The tube connectors are simply pushed into the appropriate square tubing. They can be dismantled and reused repeatedly. For installing swivel feet, casters etc.

Accessories:
- Square tubes K0627
- Finned square tubes K0628



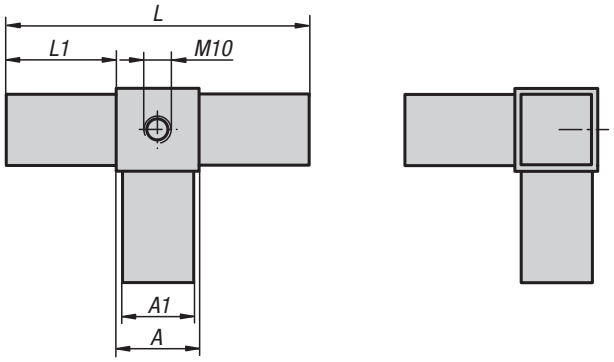
KIPP Square tube connectors, three-way with tapped hole

Order No.	A	A1	L	L1	Suitable for square tubes
K0623.125151210	25	22	77	52	25 x 25 x 1,5
K0623.130201210	30	26	77	47	30 x 30 x 2

Square tube connectors

four-way with tapped hole





Material, version:
Polyamide PA, black.
Core galvanized steel.

Sample order:
K0624.125151210

Note:
No screws required. The tube connectors are simply pushed into the appropriate square tubing. They can be dismantled and reused repeatedly. For installing swivel feet, casters etc.

Accessories:
- Square tubes K0627
- Finned square tubes K0628

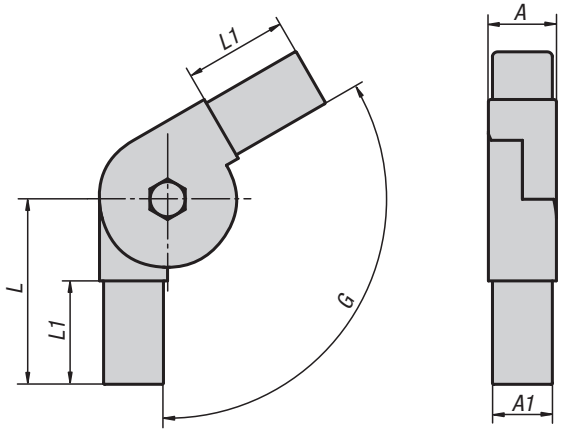


KIPP Square tube connectors, four-way with tapped hole

Order No.	A	A1	L	L1	Suitable for square tubes
K0624.125151210	25	22	129	52	25 x 25 x 1,5
K0624.130201210	30	26	124	47	30 x 30 x 2

Square tube connectors

two-way swivel





Material, version:
Polyamide PA, black.
DIN 6912 screws and DIN 934 nuts galvanized steel.

Sample order:
K0625.1251511

Note:
The tube connectors are simply pushed into the appropriate square tubing. They can be dismantled and reused repeatedly. The swivel angle can be seamlessly adjusted.

Accessories:
- Square tubes K0627
- Finned square tubes K0628

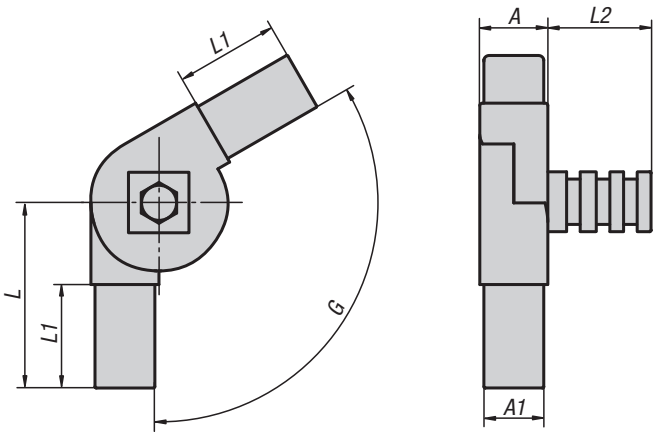
KIPP Square tube connectors, two-way swivel

Order No.	A	A1	L	L1	G	Suitable for square tubes
K0625.1251511	25	22	68	38	0° - 190°	25 x 25 x 1,5
K0625.1251512	25	22	59	38	45° - 195°	25 x 25 x 1,5

Square tube connectors

three-way swivel





Material, version:
Polyamide PA, black.
DIN 6912 screws and DIN 934 nuts galvanized steel.

Sample order:
K0626.1251511

Note:
The tube connectors are simply pushed into the appropriate square tubing. They can be dismantled and reused repeatedly. The swivel angle can be seamlessly adjusted. The third spigot can be revolved around its own axis.

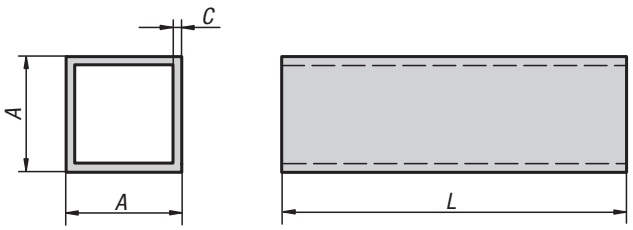
Accessories:
- Square tubes K0627
- Finned square tubes K0628

KIPP Square tube connectors, three-way swivel

Order No.	A	A1	L	L1	L2	G	Suitable for square tubes
K0626.1251511	25	22	68	38	42	0° - 190°	25 x 25 x 1,5
K0626.1251512	25	22	59	38	42	45° - 195°	25 x 25 x 1,5

K0627

Square tubes





Material:
Aluminium profile.

Version:
Silver anodized.

Sample order:
K0628.125152X2000

Note:
These square tubes are designed to suit our tube connectors.

On request:
- Other lengths (L max. 4000 mm)
- Mitre cuts

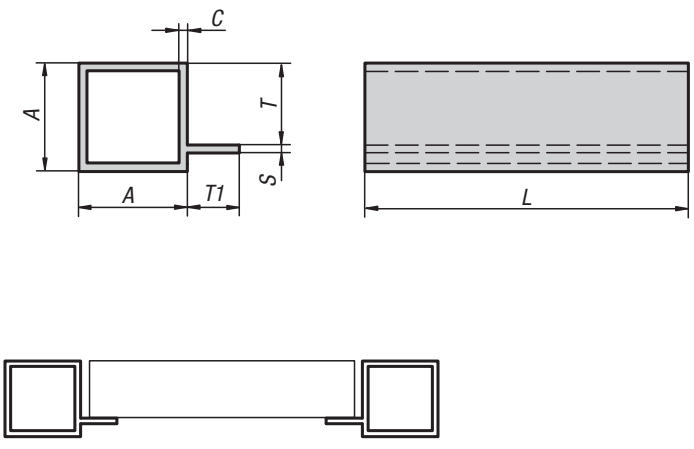
KIPP Square tubes

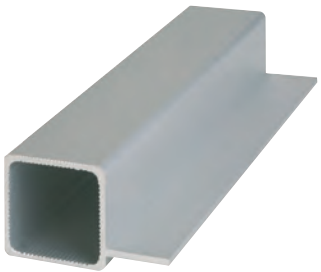
Order No.	A	C	L
K0627.120152X2000	20	1,5	2000
K0627.125152X2000	25	1,5	2000
K0627.130202X2000	30	2	2000

K0628

Square tubes

single-finned





Material:
Aluminium profile.

Version:
Silver anodized.

Sample order:
K0628.125152X2000

Note:
These square tubes are designed to suit our tube connectors.

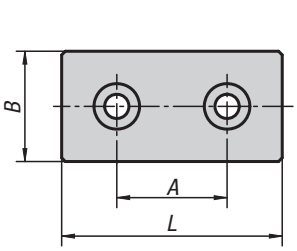
On request:
- Other lengths (L max. 4000 mm)
- Mitre cuts

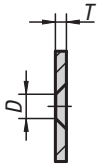
KIPP Square tubes with web

Order No.	A	C	L	S	T	T1
K0628.125152X2000	25	1,5	2000	2	19	15

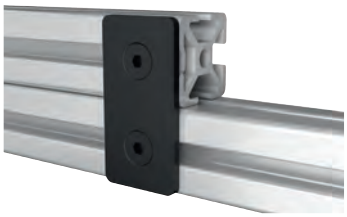
K1042

Straps









Material:
Steel.

Version:
black powder-coated.

Sample order:
K1042.06

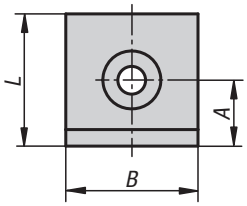
Note:
Universal fastening element for a rigid connection and linkage of profiles, panel elements or lightweight shelving.

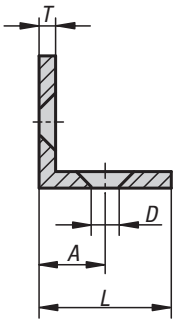
KIPP Straps

Order No.	Type	Slot width	A	B	D for screw	L	T
K1042.061	I	6	30	30	M6	60	3
K1042.081	B & I	8/10	40	40	M8	80	5
K1042.101	B	8/10	45	45	M8	90	5

K1043

Angles









Material:
Steel.

Version:
black powder-coated.

Sample order:
K1043.06

Note:
Universal fastening element for a rigid connection and linkage of profiles, panel elements or lightweight shelving.

KIPP Angles

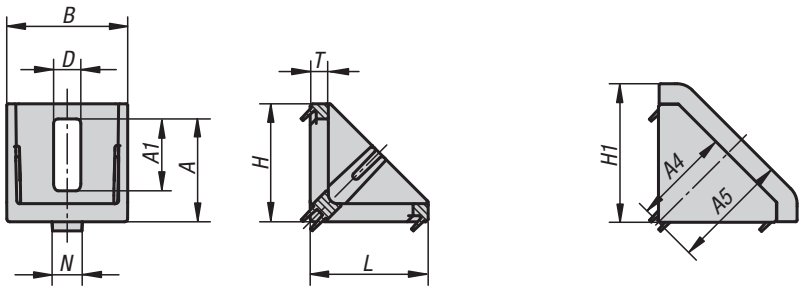
Order No.	Type	Slot width	A	B	D for screw	L	T
K1043.061	I	6	15	30	M6	30	3
K1043.081	I	8/10	20	40	M8	40	5

Angle sets

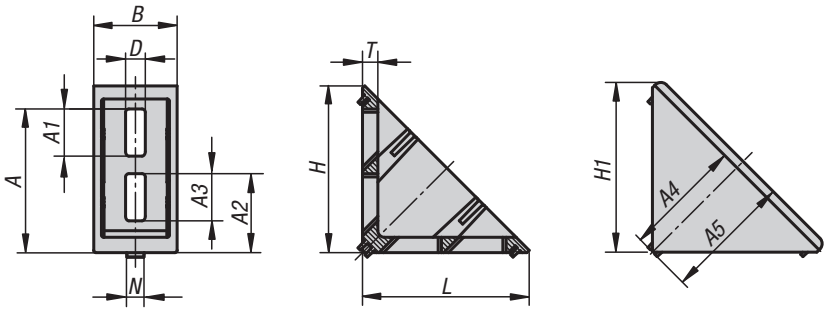
Type I



30x30 / 40x40



40x80



Material:
Angle die-cast zinc.
Screws and slot nuts steel.
End cap polyamide, fibreglass reinforced.

Version:
Angle painted aluminium tone.
Screws and slot nuts galvanized.
End cap black.

Sample order:
K1045.063030

Note:
Suitable for reinforcing profile constructions and for frictional connection of profiles with each other without machining. Can also be used as fastening element (e.g. bracket) for any components.
The angles have centring lugs for accurate and twist-proof mounting. The centring lugs can be removed if necessary by breaking off i.e. for mounting plates. The open side can be closed off with the end cap.





KIPP Angle sets Type I

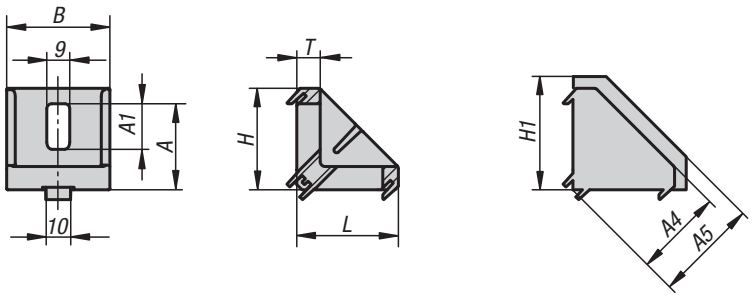
Order No.	Type	Slot width	Version	A	A1	A2	A3	A4	A5	B	D	H	H1	L	N	T
K1045.063030	I	6	30x30	22,5	11	-	-	23	27	28	6,5	28	32	28	6	4
K1045.084040	I	8	40x40	34	24	-	-	32,5	39	40	9	39	46	39	8	6
K1045.088080	I	8	40x80	65,5	21,5	36	21,5	54,5	58,5	38	9	76	78	76	8	7

Angle sets

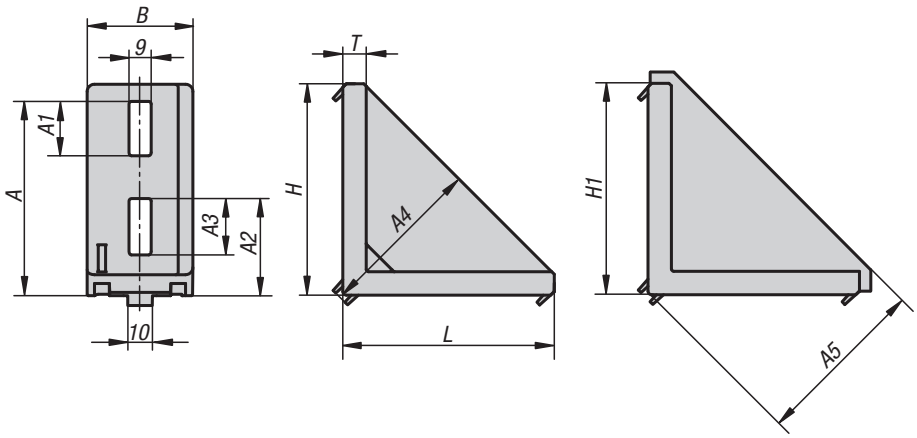
Type B



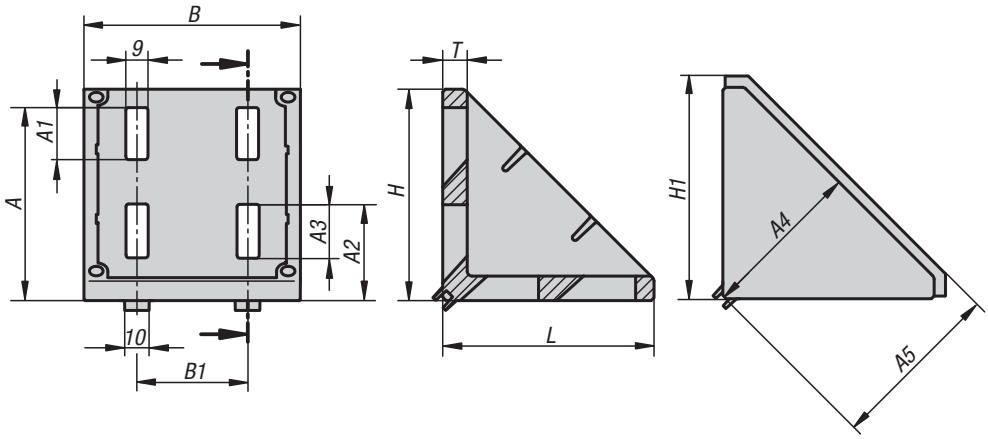
40x40 / 45x45



40x80 / 45x90



80x80 / 90x90



Material:
Angle die-cast aluminium.

Screws and slot nuts steel.
End cap polyamide, fibreglass reinforced.

Version:
Angle bright.
Screws and slot nuts galvanized.
End cap black.

Sample order:
K1046.104040

Note:
Suitable for reinforcing profile constructions and for frictional connection of profiles with each other without machining. Can also be used as fastening element (e.g. bracket) for any components.
The angles have centring lugs for accurate and twist-proof mounting. The centring lugs can be removed if necessary by breaking off i.e. for mounting plates. The open side can be closed off with the end cap.

KIPP Angle sets Type B

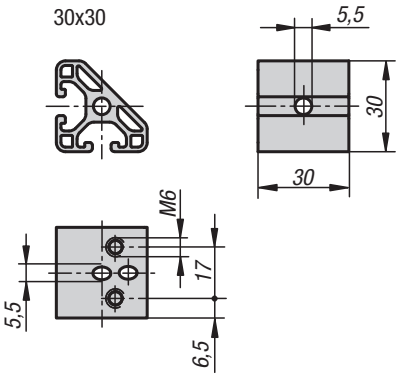
Order No.	Type	Slot width	Version	A	A1	A2	A3	A4	A5	B	B1	H	H1	L	T
K1046.104040	B	10	40x40	29,5	20,5	-	-	29,5	36,5	38	-	36	41,5	36	5,5
K1046.104545	B	10	45x45	35	18,5	-	-	35	44,5	42	-	41	50,5	41	9,5
K1046.104080	B	10	40x80	68	20	35	23	59	64	38	-	76	80	76	8,5
K1046.104590	B	10	45x90	79	22	39,5	23	67	72	43	-	86	90	86	9,5
K1046.108080	B	10	80x80	68,5	20	35	20	58,5	65	74	40	76	82,5	76	8
K1046.109090	B	10	90x90	78,5	21	39	22	67	75	88	45	86	94,5	86	10

Angle elements T1

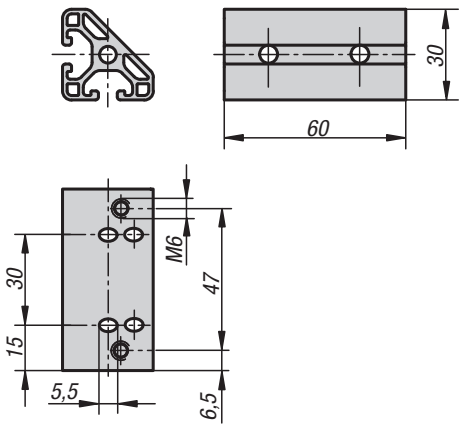
Type I



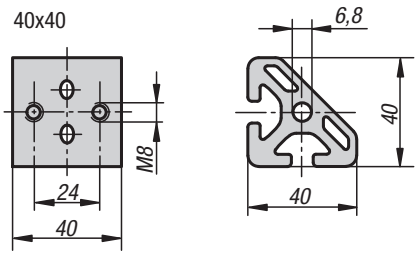
30x30



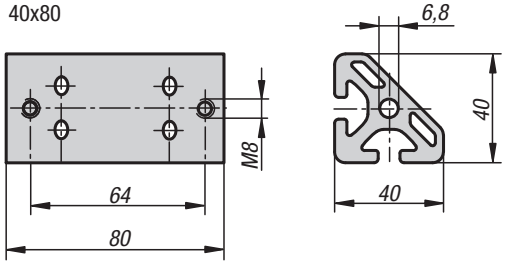
30x60



40x40



40x80





Material:
Aluminium.

Version:
anodized.

Sample order:
K1047.063030

Note:
Angle element for fastening a profile at a 45° angle and for making struts or ties.
The angle element can be fastened with a universal connector set (remove rotation lock) and with ISO 7380 round-head screws.

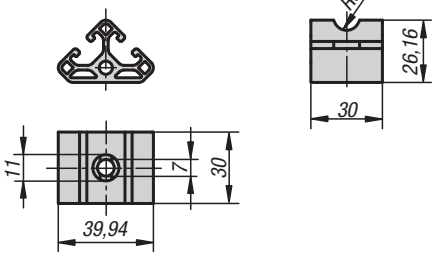
KIPP Angle elements, T1 Type I

Order No.	Type	Slot width	Version
K1047.063030	I	6	30x30
K1047.063060	I	6	30x60
K1047.084040	I	8	40x40
K1047.084080	I	8	40x80

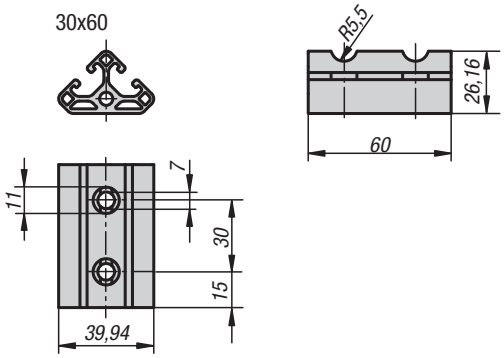
Angle elements T2

Type I

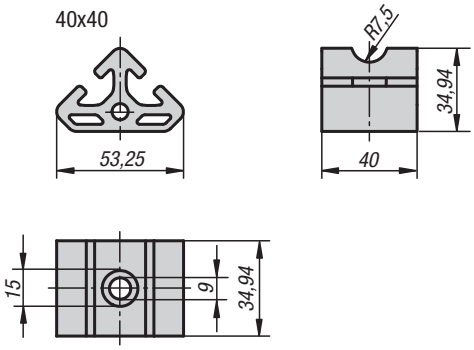
30x30



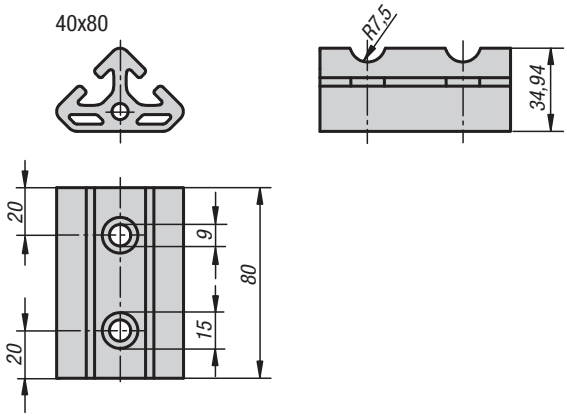
30x60



40x40



40x80





Material:
Aluminium.

Version:
anodized.

Sample order:
K1048.063030

Note:
Angle element for fastening two profiles at a 45° angle and for making struts or ties.
The angle element can be fastened with universal connector sets and ISO 7380 round-head screws.



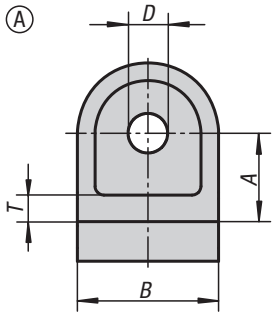
KIPP Angle elements, T2 Type I

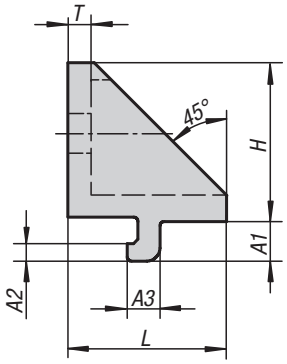
Order No.	Type	Slot width	Version
K1048.063030	I	6	30x30
K1048.063060	I	6	30x60
K1048.084040	I	8	40x40
K1048.084080	I	8	40x80

Clamping angles

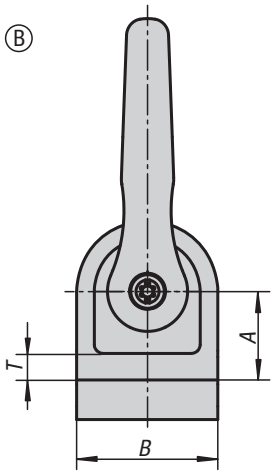
Type I

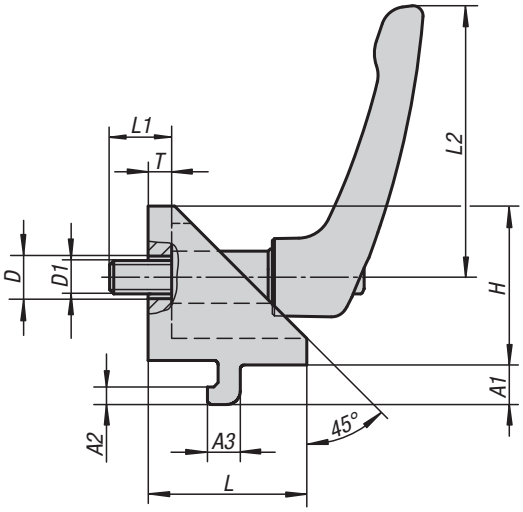
Ⓐ



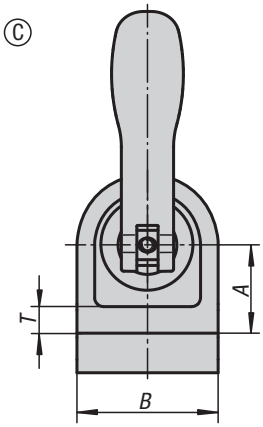


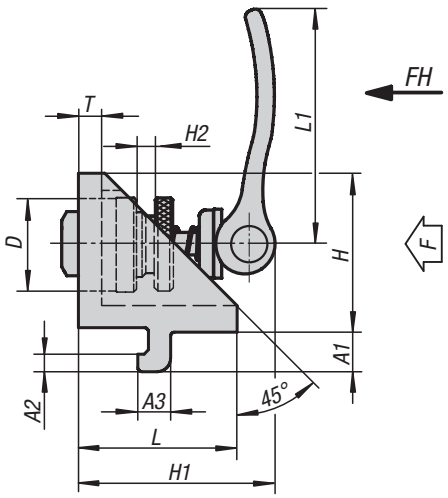
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Material:
Clamping angle die-cast zinc.
Grip die-cast zinc DIN EN 12844. Steel parts stainless steel 1.4305.
Cam lever cast aluminium. Body steel.

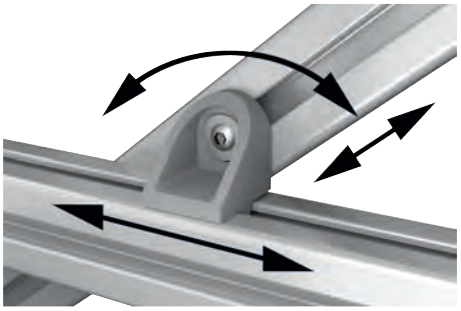
Version:
Clamping angle painted aluminium tone.
Grip plastic-coated. Stainless steel bright.
Cam lever black powder-coated. Steel parts black oxidised.
Slot key galvanized.

Sample order:
K1049.06

Note:
The clamping angles are used for connecting two profiles of the same series that have contact on the side faces and cross at any angle.

Loosening the screw releases both clamps allowing free rotation and sliding along the slots.

The clamping angles are generally used in pairs or in combination with a joint angle.



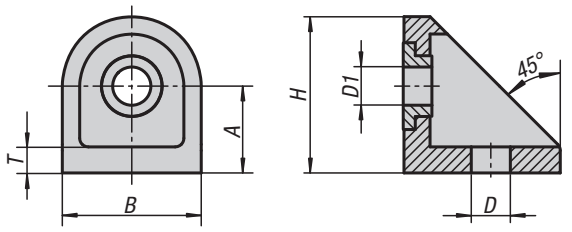
KIPP Clamping angles Type I

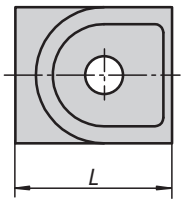
Order No.	Type	Slot width	Form	Version	A	A1	A2	A3	B	D	D1	H	L	L1	L2	T
K1049.06	I	6	A	-	15	6,3	3	5,7	24	7	-	27	27	-	-	5
K1049.08	I	8	A	-	20	9	4	7,5	32	9	-	36	36	-	-	6
K1049.0606	I	6	B	with clamping lever	15	6,3	3	5,7	24	7	M6	27	27	13	40	5
K1049.0808	I	8	B	with clamping lever	20	9	4	7,5	32	9	M8	36	36	18	65	6
K1049.0615	I	6	C	with eccentric clamp	15	6,3	3	5,7	24	15	-	27	27	36,2	-	5
K1049.0820	I	8	C	with eccentric clamp	20	9	4	7,5	32	20	-	36	36	52,3	-	6

Joint angle

Type I







Material:
Joint angle die-cast zinc.
Pivot bush steel.

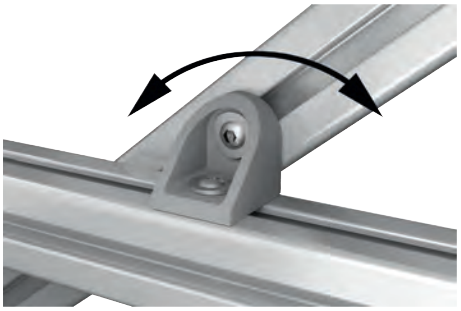
Version:
Joint angle painted aluminium tone.
Pivot bush galvanized.

Sample order:
K1050.06

Note:
The joint angles are used for connecting two profiles of the same series that have contact on the side faces and cross at any angle.

The joint angle acts as a fixed pivot point for the crossed profiles. When the screw is tightened the profile can still be freely rotated around the pivot bush.

The joint angles are generally used in combination with a clamping angle.

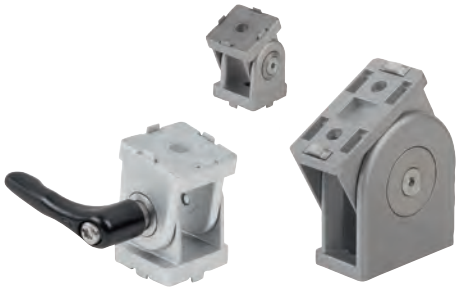


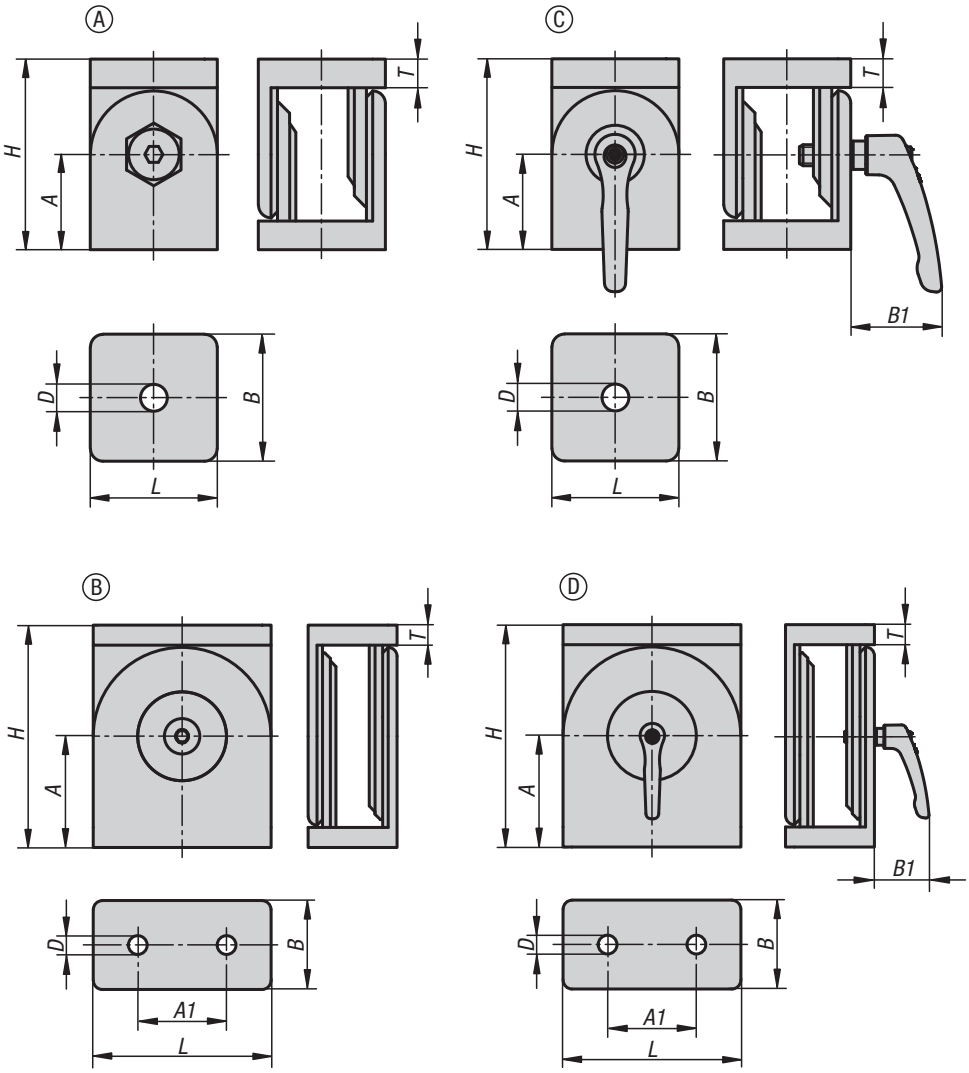
KIPP Joint angle Type I

Order No.	Type	Slot width	A	B	D	D1	H	L	T
K1050.06	I	6	15	24	7	6,5	27	27	5
K1050.08	I	8	20	32	9	8,8	35,2	36	5,5

Joints

Type B and Type I





Material:
Joint die-cast zinc.
Fastenings die-cast zinc.
Spacer rings stainless steel.
Tapped bushes and countersunk screws steel.
Handle die-cast zinc DIN EN 12844. Metal parts stainless steel 1.4305.

Version:
Joint painted aluminium tone.
Fasteners galvanized.
Spacer rings bright.
Tapped bushes and countersunk screws galvanized.
Handle plastic-coated. Steel parts bright stainless steel.

Sample order:
K1051.063030

Note:
Joints for connecting two profiles at any angle. The adjustment range is 0° to 180°. The joint can also be used as a heavy hinge.

When the spacer rings are inserted, the joint can move freely. When these are removed, the joint can be used as a rigid angle element. The joints are particularly suitable for use as adjustable brackets, swivel arms or similar applications.



Joints

Type B and Type I

KIPP Joints without clamping levers

Order No.	Type	Slot width	Form	A	A1	B	D	H	L	T
K1051.063030	I	6	A	22,5	-	30	6,4	45	30	7
K1051.084040	I	8	A	30	-	40	8,4	60	40	9
K1051.084080	I	8	B	50	40	40	8,4	100	80	9
K1051.104545	B	10	A	30	-	45	8,5	60	45	8
K1051.104590	B	10	B	50	45	45	8,5	100	90	9

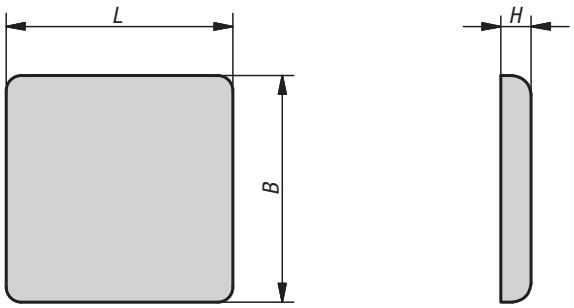
KIPP Joints with clamping levers

Order No.	Type	Slot width	Form	A	A1	B	B1	D	H	L	T
K1051.1063030	I	6	C	22,5	-	30	31	6,4	45	30	7
K1051.1084040	I	8	C	30	-	40	31	8,4	60	40	9
K1051.2084080	I	8	D	50	40	40	31	8,4	100	80	9
K1051.1104545	B	10	C	30	-	45	42,5	8,5	60	45	8
K1051.2104590	B	10	D	50	45	45	42,5	8,5	100	90	9

End caps

Type B and Type I





Material:
Polyamide fibreglass reinforced.

Version:
black.

Sample order:
K1053.06303011

Note:
Round edged covers with rotation lock for covering the profile ends. Prevents dirt from penetrating and avoids injuries. Simple clip-on mounting.



KIPP End caps Type B and Type I

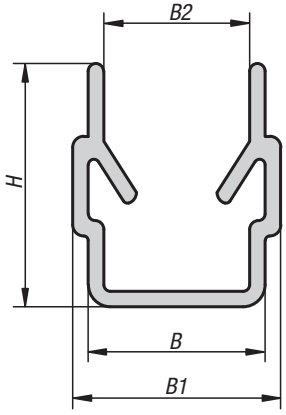
Order No.	Type	Slot width	Profile	B	L	H
K1053.06303011	I	6	30x30	30	30	3
K1053.06306011	I	6	30x60	30	60	3
K1053.06606011	I	6	60x60	60	60	3
K1053.08164011	I	8	16x40	16	40	4
K1053.08404011	I	8	40x40	40	40	4
K1053.08408011	I	8	40x80	40	80	4
K1053.08808011	I	8	80x80	80	80	4
K1053.10404021	B	10	40x40	40	40	4
K1053.10408021	B	10	40x80	40	80	4
K1053.10454521	B	10	45x45	45	45	4
K1053.10456021	B	10	45x60	45	60	4
K1053.10459021	B	10	45x90	45	90	4
K1053.10909021	B	10	90x90	90	90	4

Cover and adapter profiles

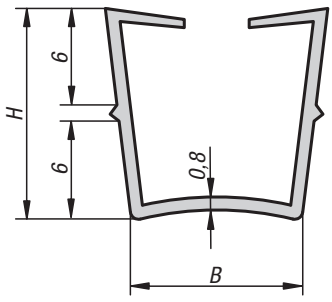
Type B and Type I



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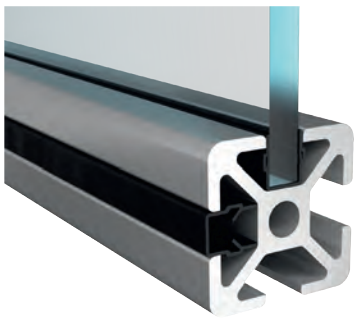


Material:
Type I polypropylene.
Type B polypropylene + TPE.

Version:
black or bright.

Sample order:
K1054.06120351

Note:
The cover and adapter profile made of flexible plastic are used for two different applications. As a cover profile it seals the profile slots against dust and dirt. As an adapter profile with the open side facing out it is used to hold panel elements.



KIPP Cover and adapter profiles Type B and Type I

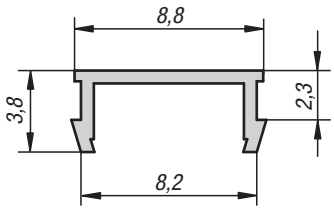
Order No.	Main colour	Type	Slot width	B	B1	B2	H	Length	Panel element
K1054.06120351	black	I	6	6	7	4,4	9,1	2000	2,0 - 3,5
K1054.06120350	natural	I	6	6	7	4,4	9,1	2000	2,0 - 3,5
K1054.08120601	black	I	8	8	9,4	6,6	9,1	2000	2,0 - 6,0
K1054.08140601	black	I	8	8	9,4	6,6	11	2000	4,0 - 6,0
K1054.08140600	natural	I	8	8	9,4	6,6	11	2000	4,0 - 6,0
K1054.10220601	black	B	10	10	-	-	13	2000	2,0 - 6,0

K1055

Cover profile

Type I





Material:
PVC.

Version:
black.

Sample order:
K1055.0811

Note:
The cover profile made of flexible plastic is used as a cover for the profile slots to protect against dust and dirt.

KIPP Cover profile Type I

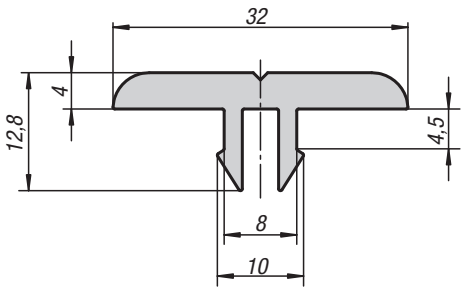
Order No.	Type	Slot width	Length
K1055.0811	I	8	2000

K1056

Slide rail

Type I





Material:
Polyethylene-HD.

Version:
black.

Sample order:
K1056.0811

Note:
Low-wear slide rail with low slide friction for easy handling of goods. Slide rails can also be used as cover protection, impact protection and guide rails.

KIPP Slide rail Type I

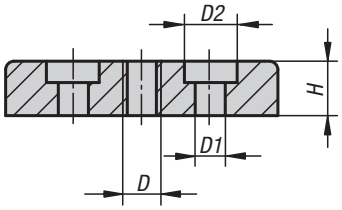
Order No.	Type	Slot width	Length
K1056.081321	I	8	2000

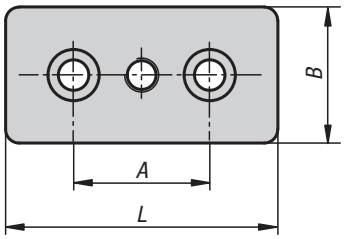
Notes

Foot plates

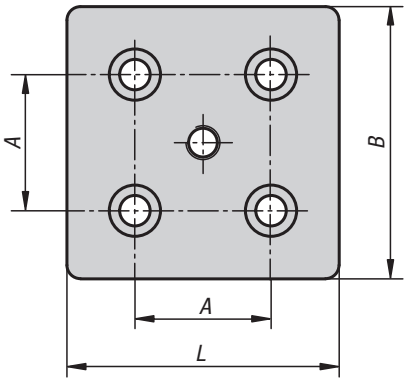
Type B and Type I











Material:
Die-cast zinc.

Version:
bright or black powder-coated.

Sample order:
K1057.0630601081

Note:
Used to mount levelling feet, rollers, eye bolts and other elements. Can also be mounted to the side of a profile using slot nuts.



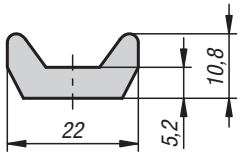


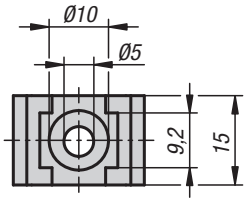
KIPP Foot plates Type B and Type I

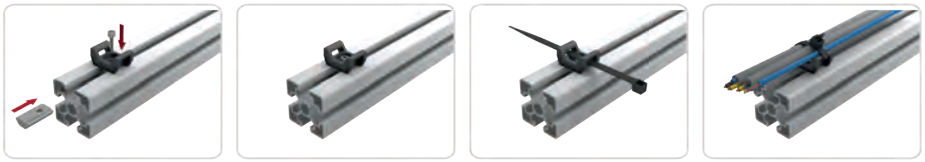
Order No.	Surface	Type	Slot width	Profile	B	L	H	A	D	D1	D2
K1057.0840801080	galvanized	I	8	40x80	40	80	16	40	M8	9	15
K1057.0840801100	galvanized	I	8	40x80	40	80	16	40	M10	9	15
K1057.0840801120	galvanized	I	8	40x80	40	80	16	40	M12	9	15
K1057.0840801160	galvanized	I	8	40x80	40	80	16	40	M16	9	15
K1057.0880801080	galvanized	I	8	80x80	80	80	16	40	M8	9	15
K1057.0880801100	galvanized	I	8	80x80	80	80	16	40	M10	9	15
K1057.0880801120	galvanized	I	8	80x80	80	80	16	40	M12	9	15
K1057.0880801160	galvanized	I	8	80x80	80	80	16	40	M16	9	15
K1057.1040802080	galvanized	B	10	40x80	40	80	16	40	M8	14,5	20
K1057.1040802100	galvanized	B	10	40x80	40	80	16	40	M10	14,5	20
K1057.1040802120	galvanized	B	10	40x80	40	80	16	40	M12	14,5	20
K1057.1040802160	galvanized	B	10	40x80	40	80	16	40	M16	14,5	20
K1057.1045902100	galvanized	B	10	45x90	45	90	16	45	M10	14,5	20
K1057.1045902120	galvanized	B	10	45x90	45	90	16	45	M12	14,5	20
K1057.1045902140	galvanized	B	10	45x90	45	90	16	45	M14	14,5	20
K1057.1045902160	galvanized	B	10	45x90	45	90	16	45	M16	14,5	20
K1057.1045902200	galvanized	B	10	45x90	45	90	16	45	M20	14,5	20
K1057.1090902100	galvanized	B	10	90x90	90	90	16	45	M10	14,5	20
K1057.1090902120	galvanized	B	10	90x90	90	90	16	45	M12	14,5	20
K1057.1090902140	galvanized	B	10	90x90	90	90	16	45	M14	14,5	20
K1057.1090902160	galvanized	B	10	90x90	90	90	16	45	M16	14,5	20
K1057.1090902200	galvanized	B	10	90x90	90	90	16	45	M20	14,5	20
K1057.0630601081	black powder-coated	I	6	30x60	30	60	12	30	M8	6,6	11
K1057.0630601101	black powder-coated	I	6	30x60	30	60	12	30	M10	6,6	11
K1057.0630601121	black powder-coated	I	6	30x60	30	60	12	30	M12	6,6	11
K1057.0630601161	black powder-coated	I	6	30x60	30	60	12	30	M16	6,6	11
K1057.0660601081	black powder-coated	I	6	60x60	60	60	12	30	M8	6,6	11
K1057.0660601101	black powder-coated	I	6	60x60	60	60	12	30	M10	6,6	11
K1057.0660601121	black powder-coated	I	6	60x60	60	60	12	30	M12	6,6	11
K1057.0660601161	black powder-coated	I	8	60x60	60	60	16	40	M16	9	15
K1057.0840801081	black powder-coated	I	8	40x80	40	80	16	40	M8	9	15
K1057.0840801101	black powder-coated	I	8	40x80	40	80	16	40	M10	9	15
K1057.0840801121	black powder-coated	I	8	40x80	40	80	16	40	M12	9	15
K1057.0840801161	black powder-coated	I	8	40x80	40	80	16	40	M16	9	15
K1057.0880801081	black powder-coated	I	8	80x80	80	80	16	40	M8	9	15
K1057.0880801101	black powder-coated	I	8	80x80	80	80	16	40	M10	9	15
K1057.0880801121	black powder-coated	I	8	80x80	80	80	16	40	M12	9	15
K1057.0880801161	black powder-coated	I	8	80x80	80	80	16	40	M16	9	15
K1057.1045902101	black powder-coated	B	10	45x90	45	90	16	45	M10	14,5	20
K1057.1045902121	black powder-coated	B	10	45x90	45	90	16	45	M12	14,5	20
K1057.1045902141	black powder-coated	B	10	45x90	45	90	16	45	M14	14,5	20
K1057.1045902161	black powder-coated	B	10	45x90	45	90	16	45	M16	14,5	20
K1057.1045902201	black powder-coated	B	10	45x90	45	90	16	45	M20	14,5	20
K1057.1090902101	black powder-coated	B	10	90x90	90	90	16	45	M10	14,5	20
K1057.1090902121	black powder-coated	B	10	90x90	90	90	16	45	M12	14,5	20
K1057.1090902141	black powder-coated	B	10	90x90	90	90	16	45	M14	14,5	20
K1057.1090902161	black powder-coated	B	10	90x90	90	90	16	45	M16	14,5	20
K1057.1090902201	black powder-coated	B	10	90x90	90	90	16	45	M20	14,5	20

K1278

Cable tie block









Material:
Polyamide fibreglass reinforced.

Version:
black.

Sample order:
K1278.01

Note:
The cable tie block is a fastening component for cables and hoses. Can be mounted on panel elements or aluminium profiles (5 to 12 mm slots) with a cap screw or pan head screw and a slot key.

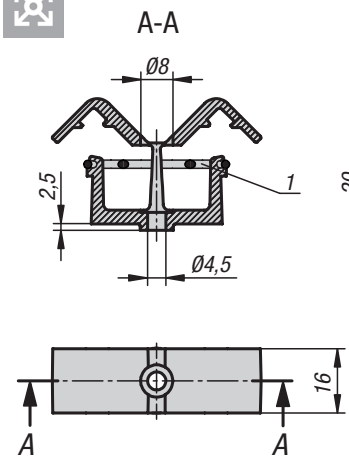
The cables and hoses are held in place using cable ties.

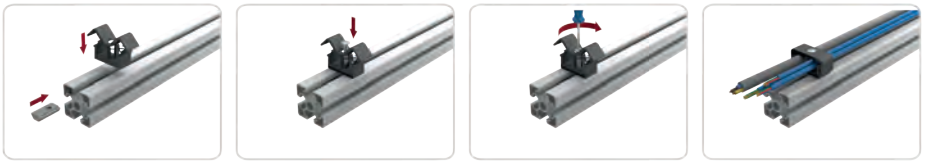
KIPP Cable tie block

Order No.	Slot width
K1278.01	5-12

K1279

Cable clip







Material:
Polyamide.
O-ring FPM 70.

Version:
black.

Sample order:
K1279.00

Note:
The cable clip is a fastening component for cables and hoses with a diameter of up to 12 mm.

Can be mounted on panel elements or aluminium profiles (8 or 10 mm slots) with a cap screw or pan head screw and a slot key. The cables are held in place by the stretched O-ring.

With two separate channels.

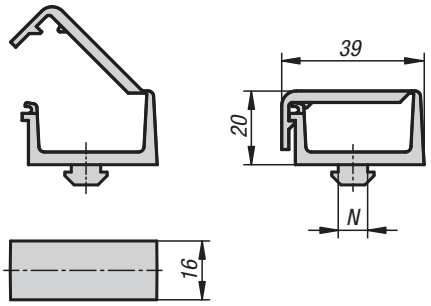
Drawing reference:
1) O-ring

KIPP Cable clip

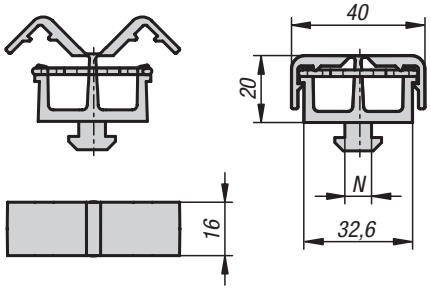
Order No.	Slot width	N
K1279.00	-	-
K1279.08	8	8
K1279.10	10	10

Cable clip with T-slot key

Ⓐ



Ⓑ





Material:
Polyamide.
O-ring FPM 70.

Version:
black.

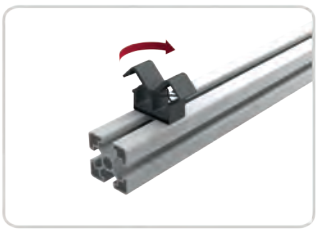
Sample order:
K1280.1108

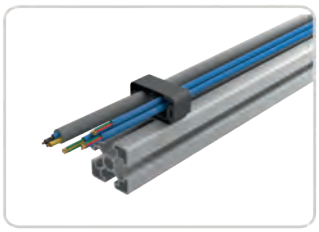
Note:
The cable clip is a fastening component for cables and hoses with a diameter up to 12 mm.

The clip is mounted by inserting the T-key into a T-slot and twisting through 90°. The cables are held in place by the stretched O-ring.

Form A: with one channel.
Form B: with two separate channels.





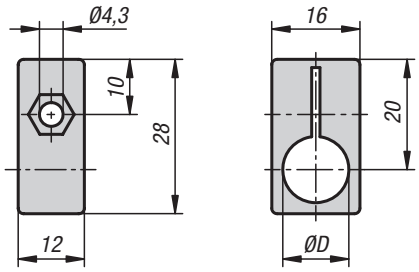


KIPP Cable clip with T-slot key

Order No. Form A	Order No. Form B	Type	Slot width	N
K1280.1108	K1280.2108	I	8	8
K1280.1208	K1280.2208	B	8	8
K1280.1210	K1280.2210	B	10	10

Sensor holder





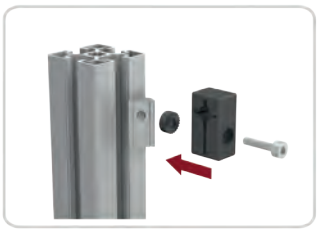
Material:
Polyamide fibreglass reinforced.

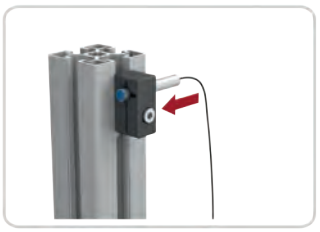
Version:
black.

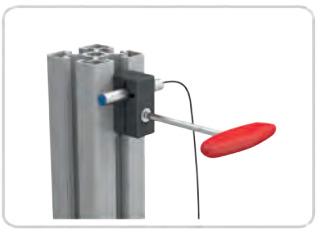
Sample order:
K1281.080

Note:
For fastening sensors and limit switches to aluminium profiles or panel elements.

Fastening pieces are available for various aluminium profile slot sizes. The fastening piece provides a positive rotation lock and can be adjusted in 15 increments. With no fastening piece the sensor holder can be infinitely adjusted in the angle.







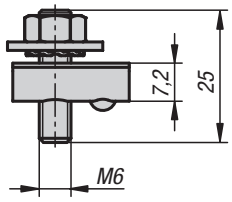
KIPP Sensor holder

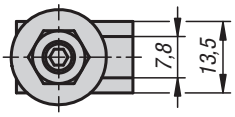
Order No.	Description	D	Slot width
K1281.080	Sensor holder	8	-
K1281.120	Sensor holder	12	-
K1281.905	Fastening piece	-	5
K1281.906	Fastening piece	-	6
K1281.908	Fastening piece	-	8
K1281.910	Fastening piece	-	10

K1282

Earthing terminal

type I







Material:
Slot key, grub screw and serrated washer, steel.
Nut and washer, brass.

Version:
Slot key, grub screw and serrated washer, galvanised.

Sample order:
K1282.0806

Note:
For protecting installations and persons. Connectors for earthing aluminium profile structures and interconnecting the aluminium profiles by integrating them into the protective earth (PE) system. Conductive contact is established through defined destruction of the oxide layer in the slot base and on the slot flanks.

The cable lug must be positioned between the serrated washer and the washer during assembly.

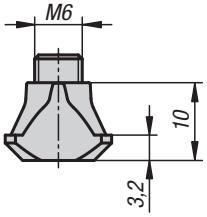
KIPP Earthing terminal type I

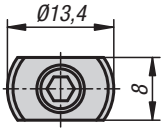
Order No.	Type	Slot width
K1282.0806	I	8

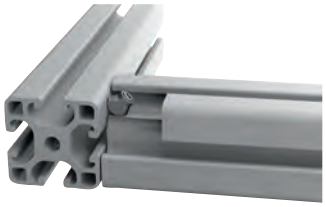
K1283

Potential equaliser

type I









Material:
Steel.

Version:
galvanized.

Sample order:
K1283.0806

Note:
For generating electrostatic discharge (ESD).
For safely equalising electrostatic charge of profiles. It is swivelled into the slot and screwed against the profiles at a 45° angle. A conductive connection is established by breaking through the oxide layer.

Attention:
A potential equaliser is not an electrical connection of the protective earth (PE) system.

KIPP Potential equaliser type I

Order No.	Type	Slot width
K1283.0806	I	8

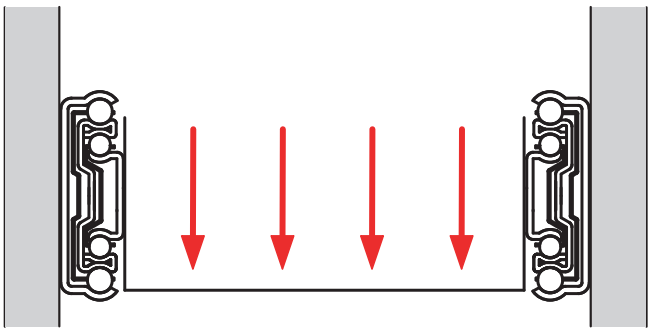
Telescopic slides



Technical information for telescopic slides

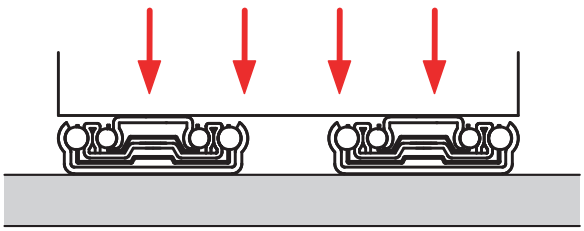
Construction:
Telescopic slides consist of two or more ball-bearing supported guide rails mounted one inside another that can be pulled out like a telescope. The load rating of a telescopic slide is determined by the following factors:

- Rail length
- Travel length
- No. of cycles
- Material
- Installation
- System assembly



Vertically mounted telescopic rails have ball races lying one over the other. This special design makes them highly torsion resistant and significantly increases the service life and the load bearing capacity.

The load bearing capacity per pair given in the catalogue indicates the maximum load rating of a vertically mounted slide pair when the entire extension length is used. It assumes that all the designated fastening positions are used with suitable fastening elements and tests are carried out under the intended working conditions.



Under certain conditions the telescope rails can also be mounted horizontally. However, the loading values are 50-60% less than vertically mounted rails.

Extension types:
Partial extension:
Travel (pull-out length) ca. 70-80% of slide length

Full extension:
Travel (pull-out length) 100% of slide length

Over-extension:
Travel (pull-out length) >100% of slide length

Temperature range:
- Application temperature +10°C to +40°C
- Storage and transport temperature -20°C to +80°C (by K0541 to +60°C)

Possible features of telescopic slides:

Interlock:
The interlock fixates the guide in the closed position.



Retraction damping:
The closing speed is dampened and the draw moves automatically to the closed position. Additionally, a defined force must be overcome to open the draw which prevents unintentional opening.



Auto-retraction:
When closing a spring mechanism fully retracts the guide 25 mm prior to reaching the end position. The automatic retracting force can be altered by re-positioning the spring.

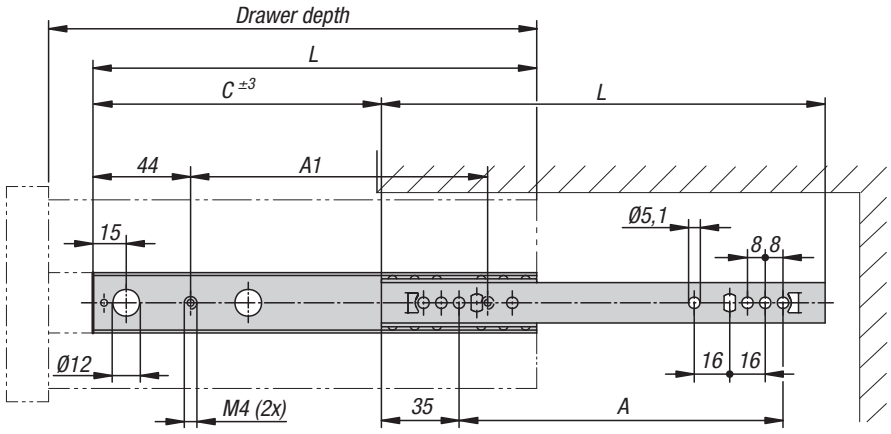


Separable inner rail:
A separable inner rail enables detachment of the inner rail profile. This enables the moving element to be fully removed from the guide.



Telescopic slides

partial extension, loading up to 15 kg





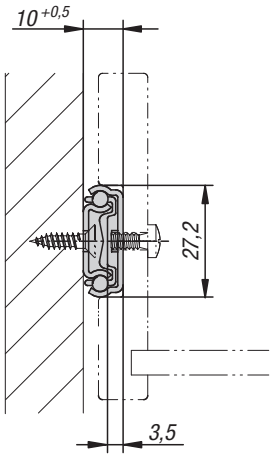
Material:
Slides steel.
Ball cages plastic.
Balls C-steel.

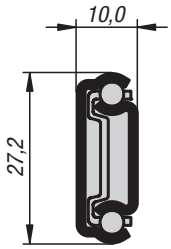
Version:
Slides, hot galvanized.
Balls hardened.

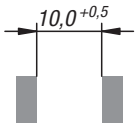
Sample order:
K0536.10214 (supplied individually)

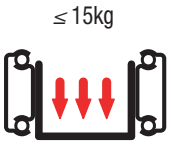
Note:
For telescopic slides with partial extension, the travel is less than the overall length. They are an inexpensive solution for low friction rails of drawers or similar. The dynamic load capacity of the telescopic slides indicates the maximum load rating of a vertically mounted slide pair when the entire extension length is used. The specified load-bearing capacities refer to the maximum value at 100,000 cycles. The telescopic slides can be extended in both directions.

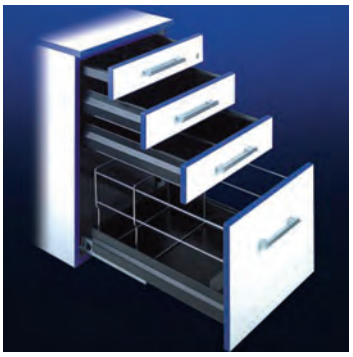
Attention:
All telescopic rails are tested to DIN EN 15338.











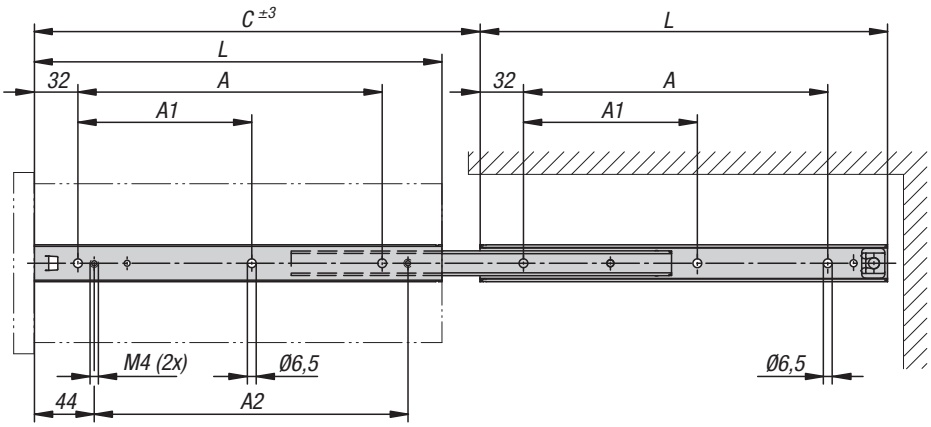
KIPP Telescopic slides, partial extension, load capacity up to 15 kg

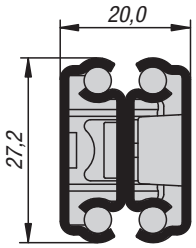
Order No.	A	A1	C (travel)	L	Drawer depth from - to	Loading per pair kg
K0536.10214	160	138	144	214	214 - 348	15
K0536.10310	256	234	220	310	310 - 520	15
K0536.10406	352	330	276	406	406 - 672	15
K0536.10470	416	394	320	470	470 - 780	15

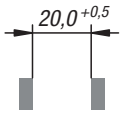
Telescopic slides

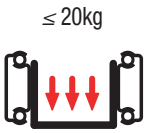
over-extension, loading up to 20kg











Material:
Slides steel.
Ball cages steel.
Balls C-steel.

Version:
Slides, hot galvanized.
Ball cages, galvanized.
Balls hardened.

Sample order:
K0777.10350 (supplied individually)

Note:
For telescopic slides with over-extension the travel is greater than the installation length. Locks in closed position. The dynamic load capacity of the telescopic slides indicates the maximum load rating of a vertically mounted slide pair when the entire extension length is used. The specified load-bearing capacities refer to the maximum value at 100,000 cycles.

Attention:
All telescopic rails are tested to DIN EN 15338.

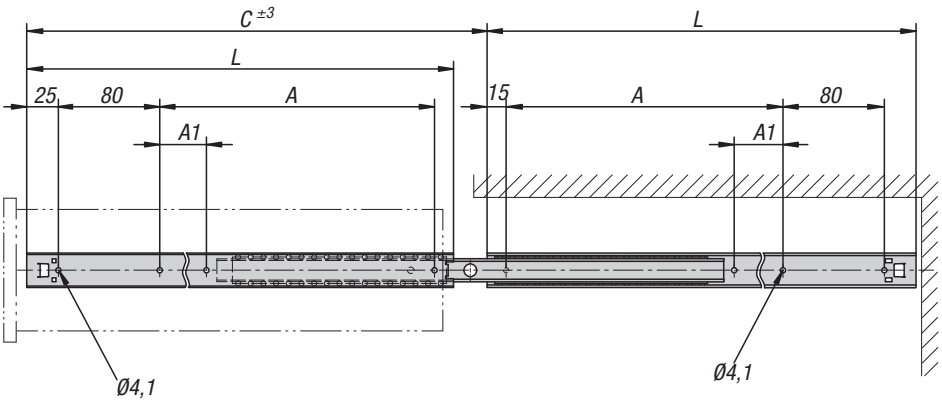
KIPP Telescopic slides, over-extension, load capacity up to 20 kg

Order No.	A	A1	L	A2	C (travel)	Loading per pair kg
K0777.10200	128	-	200	131	228	20
K0777.10250	160	-	250	181	278	20
K0777.10300	224	128	300	231	328	20
K0777.10350	256	128	350	281	378	20
K0777.10400	320	160	400	331	426	20
K0777.10450	384	192	450	381	478	20
K0777.10500	416	224	500	431	528	20
K0777.10550	448	224	550	481	578	20

Telescopic slides

over-extension, loading up to 25kg, stainless steel





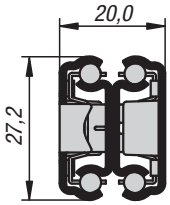
Material:
Rails stainless steel.
Ball cage stainless steel.
Balls stainless steel.

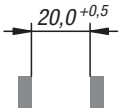
Sample order:
K0778.20300 (supplied individually)

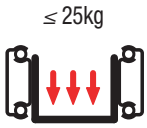
Note:
For telescopic slides with over-extension the travel is greater than the installation length. The dynamic load capacity of the telescopic slides indicates the maximum load rating of a vertically mounted slide pair when the entire extension length is used. The specified load-bearing capacities refer to the maximum value at 100,000 cycles.

Advantages:
Application temperature -30°C to +200°C.

Attention:
All telescopic rails are tested to DIN EN 15338.







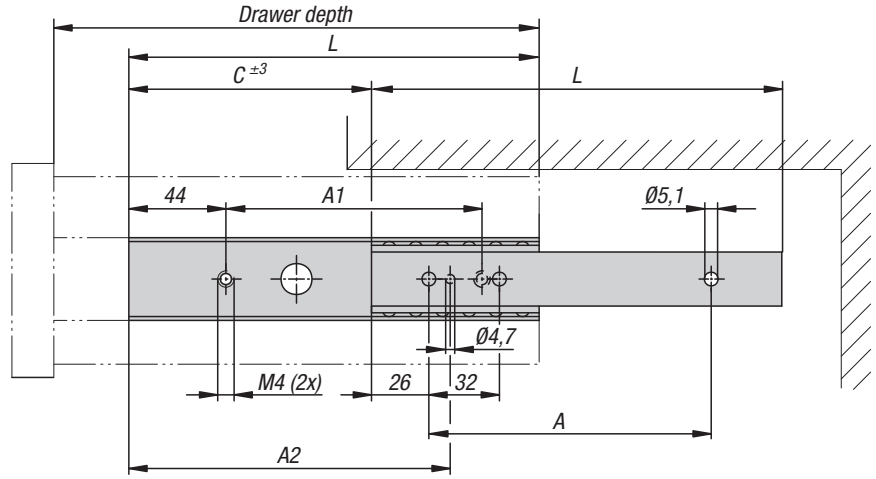
KIPP Telescopic slides, over-extension, load capacity up to 25 kg, stainless steel

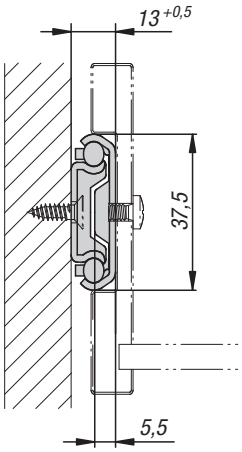
Order No.	A	A1	L	C (travel)	Loading per pair kg
K0778.20300	180	-	300	326	25
K0778.20350	230	70	350	376	25
K0778.20400	280	100	400	426	25
K0778.20450	330	100	450	476	25
K0778.20500	380	140	500	526	25
K0778.20550	430	160	550	576	25

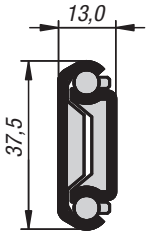
Telescopic slides

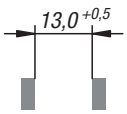
partial extension, loading up to 35 kg

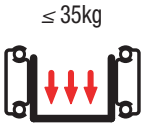


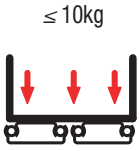












Material:
Slides steel.
Ball cages plastic.
Balls C-steel.

Version:
Slides, hot galvanized.
Balls hardened.

Sample order:
K0537.10242 (supplied individually)

Note:
For telescopic slides with partial extension, the travel is less than the overall length. They are an inexpensive solution for low friction rails for drawers and similar. The dynamic load capacity of the telescopic slides indicates the maximum load rating of a vertically mounted slide pair when the entire extension length is used. The value is 50-60% lower for horizontal mounting. The specified load-bearing capacities refer to the maximum value at 100,000 cycles. The telescopic slides can be extended in both directions.

Attention:
All telescopic rails are tested to DIN EN 15338.

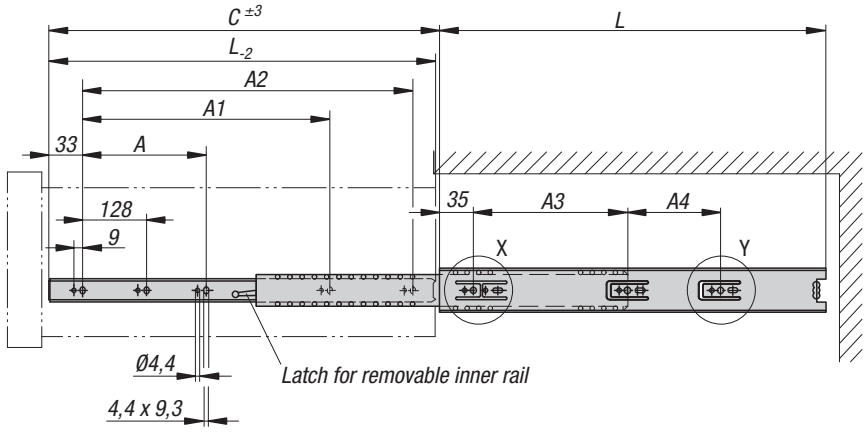
KIPP Telescopic slides, partial extension, load capacity up to 35 kg

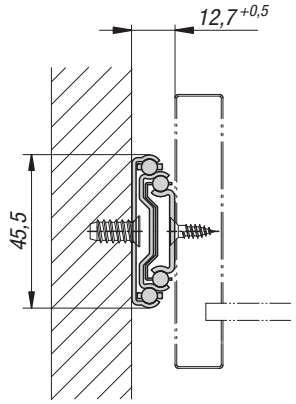
Order No.	A	A1	A2	L	C (travel)	Drawer depth from - to	Loading per pair kg	Loading per pair horizontal kg
K0537.10242	192	166	202	242	154	242 - 380	35	10
K0537.10317	256	241	277	317	229	317 - 530	35	10
K0537.10398	352	322	358	398	298	398 - 680	35	10
K0537.10473	416	397	433	473	373	473 - 780	35	10

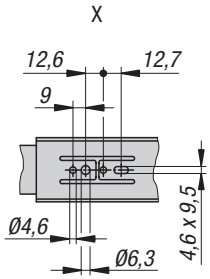
Telescopic slides

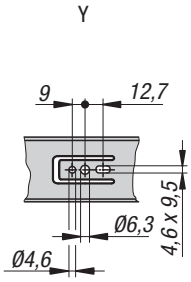
full extension, separable, loading up to 40 kg

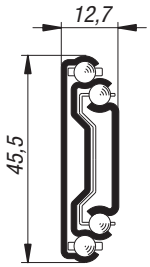


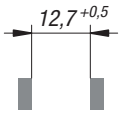


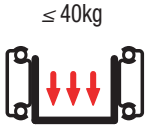












Material:
Slides steel.
Ball cages steel and plastic.
Balls C-steel.

Version:
Slides bright chromed.
Balls hardened.

Sample order:
K0539.10300 (supplied individually)

Note:
For telescopic slides with full extension, the travel is equal to the overall length, which guarantees more comfort and accessibility. Separable internal slides allow the detachment of inner and outer profiles. Interlocks in closed position. The dynamic load capacity of the telescopic slides indicates the maximum load rating of a vertically mounted slide pair when the entire extension length is used. The specified load-bearing capacities refer to the maximum value at 50,000 cycles.

Attention:
All telescopic rails are tested to DIN EN 15338.

KIPP Telescopic slides, full extension, separable, load capacity up to 40 kg

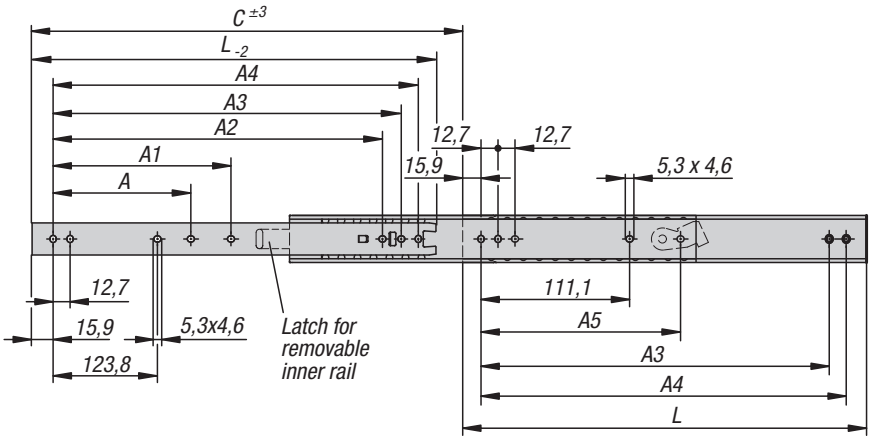
Order No.	A	A1	A2	A3	A4	C (travel)	L	Drawer depth	Loading per pair kg
K0539.10300	-	-	242	192	-	305	300	300	30
K0539.10350	-	-	292	256	-	356	350	350	30
K0539.10400	-	256	342	160	96	406	400	400	35
K0539.10450	-	256	392	160	160	457	450	450	35
K0539.10500	-	352	442	224	128	508	500	500	35
K0539.10550	224	416	492	224	192	559	550	550	40
K0539.10600	224	416	542	224	224	610	600	600	40

Telescopic slides

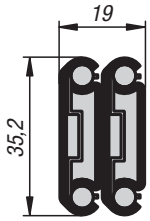
full extension, separable, loading up to 52 kg

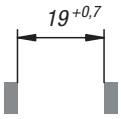
19"

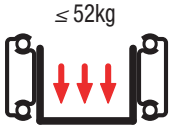




Maximum screw head dimensions: Ø 8 mm x 2.6 mm high







Material:
Slides and ball cage steel.
Balls C-steel.

Version:
Slides galvanized and blue passivated.
Ball cages galvanized.
Balls hardened.

Sample order:
K0538.10305 (supplied individually)

Note:
For telescopic slides with full extension, the travel is equal to the overall length, which guarantees more comfort and accessibility. These slides were specially developed for 19“ technology. Separable internal slides allow the detachment of inner and outer profiles. Frictional engagement in the opened position. The dynamic load capacity of the telescopic slides indicates the maximum load rating of a vertically mounted slide pair when the entire extension length is used. The specified load capacities refer to a maximum value after 100,000 cycles.

Attention:
All telescopic rails are tested to DIN EN 15338.

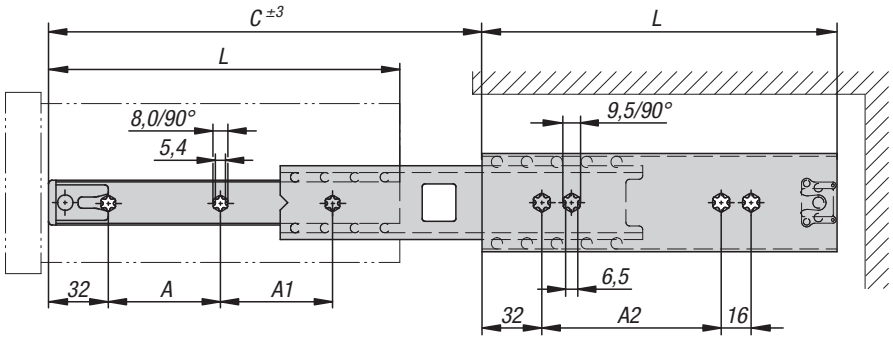


KIPP Telescopic slides, full extension, separable, load capacity up to 52 kg

Order No.	A	A1	A2	A3	A4	A5	C (travel)	L	L inch	Loading per pair kg
K0538.10305	-	-	-	260,3	273	-	316	305	12	45
K0538.10330	-	-	273	285,7	298,4	-	353	330	13	45
K0538.10356	-	-	298,4	311,1	323,8	-	381	356	14	46
K0538.10406	-	-	349,2	361,9	374,6	250,8	433	406	16	49
K0538.10457	212,7	-	400	412,7	425,4	301,6	484	457	18	50
K0538.10508	238,1	365,1	450,9	463,6	476,3	352,4	531	508	20	51
K0538.10533	250,8	390,5	476,2	488,9	501,6	377,8	554	533	21	51
K0538.10559	263,5	415,9	501,6	514,3	527	403,2	585	559	22	51
K0538.10610	288,9	466,7	552,4	565,1	577,8	454	636	610	24	52
K0538.10660	314,3	517,5	603,2	615,9	628,6	504,8	687	660	26	52

Telescopic slides

over-extension, loading up to 60 kg





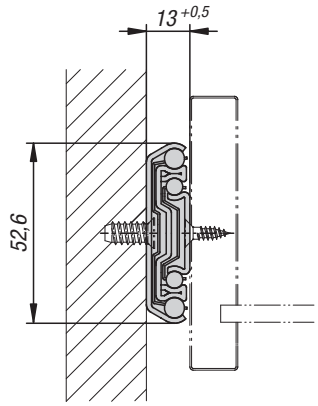
Material:
Slides and ball cages steel.
Balls C-steel.

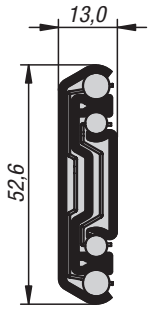
Version:
Slides hot galvanized.
Ball cages galvanized.
Balls hardened.

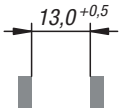
Sample order:
K0540.10300 (supplied individually)

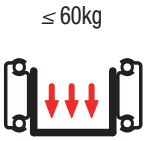
Note:
For telescopic slides with over-extension the travel is greater than the installation length. Locks in closed position. The dynamic load capacity of the telescopic slides indicates the maximum load rating of a vertically mounted slide pair when the entire extension length is used. The specified load-bearing capacities refer to the maximum value at 100,000 cycles.

Attention:
All telescopic rails are tested to DIN EN 15338.









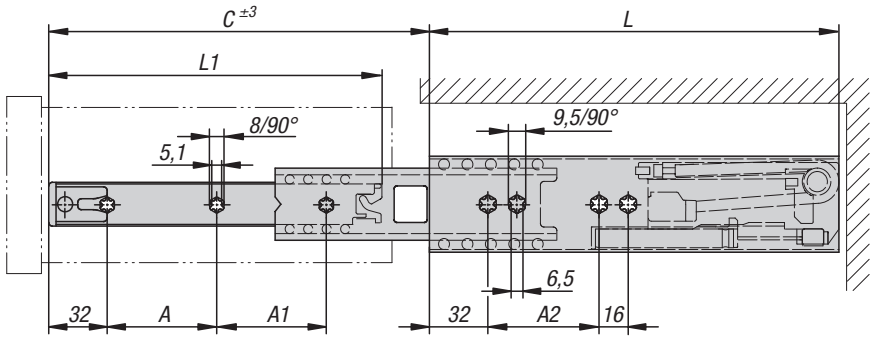
KIPP Telescopic slides, over-extension, load capacity up to 60 kg

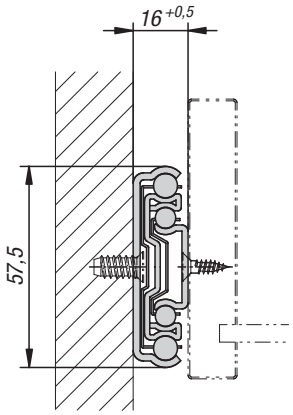
Order No.	A	A1	A2	C (travel)	L	Drawer depth	Loading per pair kg
K0540.10300	128	104	160	350	300	300	35
K0540.10350	128	152	256	400	350	350	40
K0540.10400	160	168	256	450	400	400	45
K0540.10450	160	224	256	500	450	450	50
K0540.10500	224	208	384	550	500	500	55
K0540.10550	224	256	384	600	550	550	55
K0540.10600	288	240	384	650	600	600	60
K0540.10650	288	288	384	700	650	650	60
K0540.10700	320	312	384	750	700	700	60
K0540.10750	320	360	384	800	750	750	60

Telescopic slides

over-extension, loading up to 60 kg







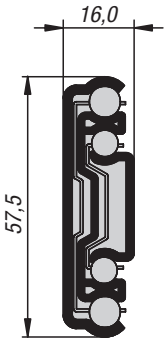
Material:
Slides and ball cages steel.
Balls C-steel.

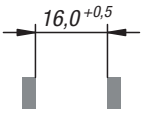
Version:
Slides hot galvanized.
Ball cages galvanized.
Balls hardened.

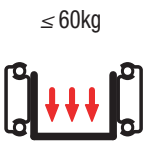
Sample order:
K0541.10400 (supplied individually)

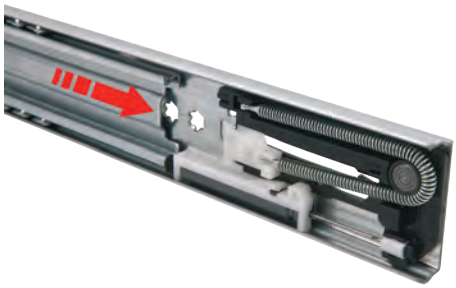
Note:
For telescopic slides with over-extension, the travel is greater than the overall length, which guarantees more comfort and accessibility. The slides have Soft-Control to dampen closing and close automatically. The dynamic load capacity of the telescopic slides indicates the maximum load rating of a vertically mounted slide pair when the entire extension length is used. The specified load-bearing capacities refer to the maximum value at 100,000 cycles.

Attention:
All telescopic rails are tested to DIN EN 15338.







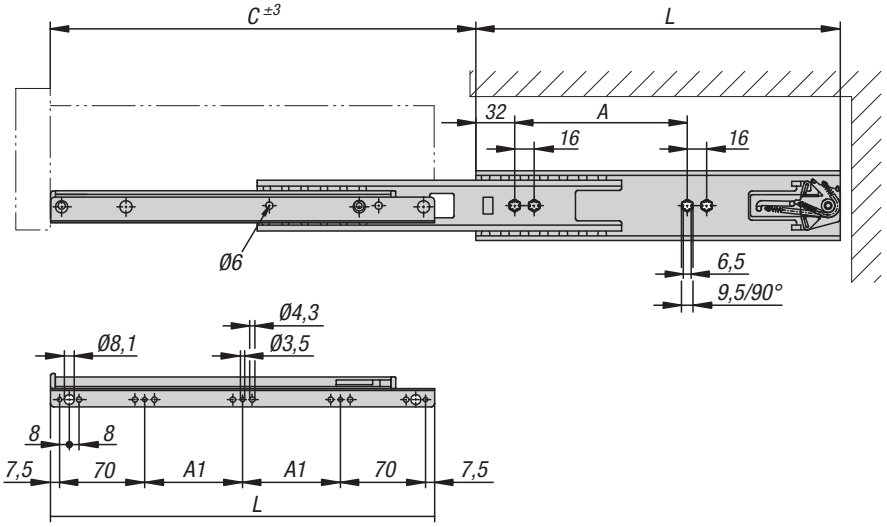


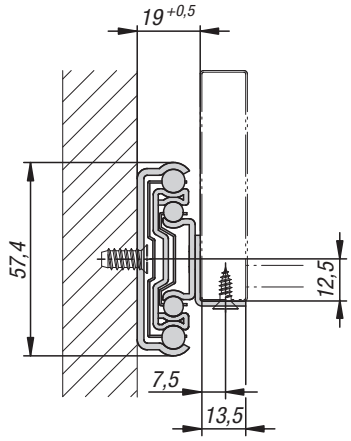
KIPP Telescopic slides, over-extension, load capacity up to 60 kg

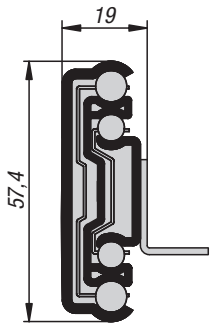
Order No.	A	A1	A2	C (travel)	L	L1	Drawer depth	Loading per pair kg
K0541.10400	128	128	224	434	400	371	400	40
K0541.10450	160	160	256	484	450	421	450	50
K0541.10500	160	192	320	534	500	471	500	55
K0541.10550	192	192	320	584	550	521	550	60

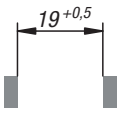
Telescopic slides with support bracket

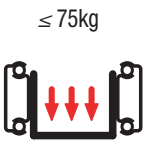
over-extension, loading up to 75 kg













Material:
Slides and ball cages steel.
Balls C-steel.

Version:
Slides hot galvanized.
Ball cages galvanized.
Balls hardened.

Sample order:
K0543-10350 (supplied in pairs)

Note:
For telescopic slides with over-extension, the travel is greater than the overall length. The guide rail is automatically drawn to the end position by the integrated self-retraction during closing. The side fittings on the inner slide are replaced by angle brackets. The dynamic load capacity of the telescopic slides indicates the maximum load rating of a vertically mounted slide pair when the entire extension length is used. The specified load capacities refer to a maximum value after 100,000 cycles.

Supplied in pairs.

Attention:
All telescopic rails are tested to DIN EN 15338.



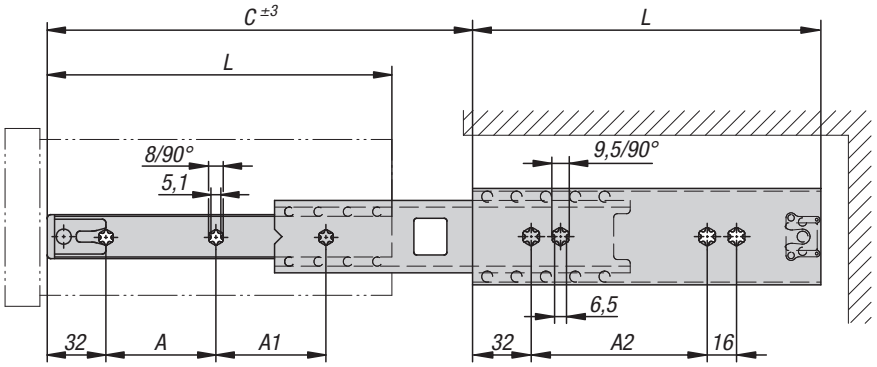
Integrated auto-retraction with adjustable spring force.
Retraction length: 25 mm

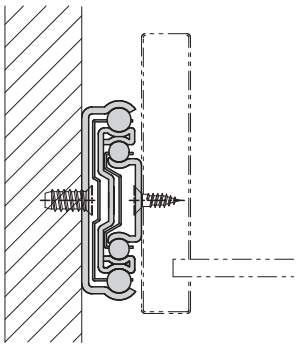
KIPP Telescopic slides with support bracket, over-extension, load capacity up to 75 kg

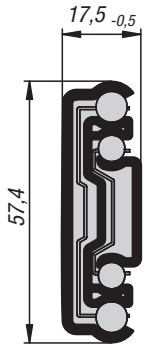
Order No.	A	A1	C (travel)	L	Drawer depth	Loading per pair kg
K0543.10350	192	97,5	384	350	350 - 400	60
K0543.10450	256	147,5	484	450	450 - 500	70
K0543.10550	352	197,5	584	550	550 - 600	75
K0543.10700	384	272,5	734	700	700 - 750	75

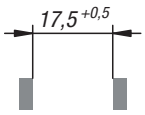
Telescopic slides

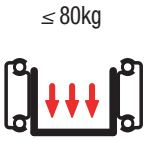
over-extension, loading up to 80 kg

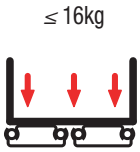














Material:
Slides and ball cages steel.
Balls C-steel.

Version:
Slides hot galvanized.
Ball cages galvanized.
Balls hardened.

Sample order:
K0542.10300 (supplied individually)

Note:
For telescopic slides with over-extension, the travel is greater than the overall length. Interlock in closed position. The dynamic load capacity of the telescopic slides indicates the maximum load rating of a vertically mounted slide pair when the entire extension length is used. The value lower for horizontal mounting. The specified load-bearing capacities refer to the maximum value at 100,000 cycles.

Attention:
All telescopic rails are tested to DIN EN 15338.

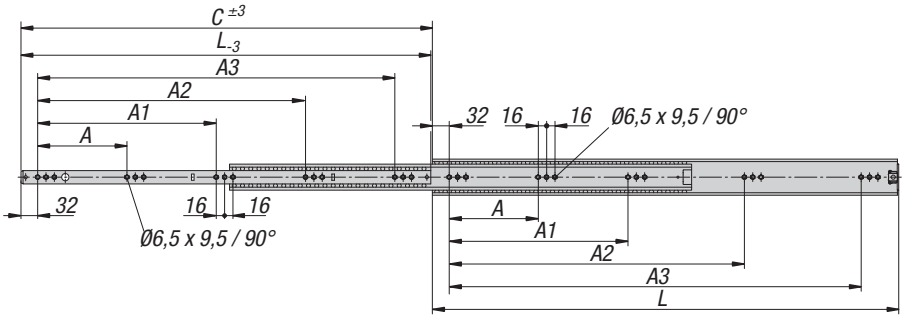
KIPP Telescopic slides, over-extension, load capacity up to 80 kg

Order No.	A	A1	A2	C (travel)	L	Drawer depth	Loading per pair kg	Loading per pair horizontal kg
K0542.10300	128	104	160	350	300	300	50	16
K0542.10350	128	152	256	400	350	350	60	16
K0542.10400	160	168	256	450	400	400	65	16
K0542.10450	160	224	256	500	450	450	70	16
K0542.10500	224	208	384	550	500	500	75	16
K0542.10550	224	256	384	600	550	550	75	16
K0542.10600	288	240	384	650	600	600	80	16
K0542.10650	288	288	384	700	650	650	80	16
K0542.10700	320	312	384	750	700	700	80	16
K0542.10750	320	360	384	800	750	750	80	16

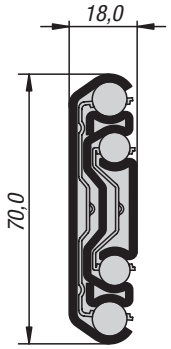
Telescopic slides

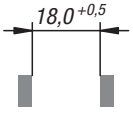
heavy-duty, full extension, loading up to 200 kg

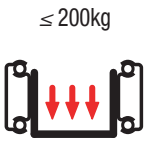


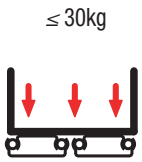


Fastening with M5 counter sunk head screws (head height 2.5 mm)
or Euro screws (counter sunk head height 1.5 mm)









Material:
Slides and ball cage steel.
Balls C-steel.

Version:
Slides galvanized and blue passivated.
Ball cages galvanized.
Balls hardened.

Sample order:
K0544.10400 (supplied individually)

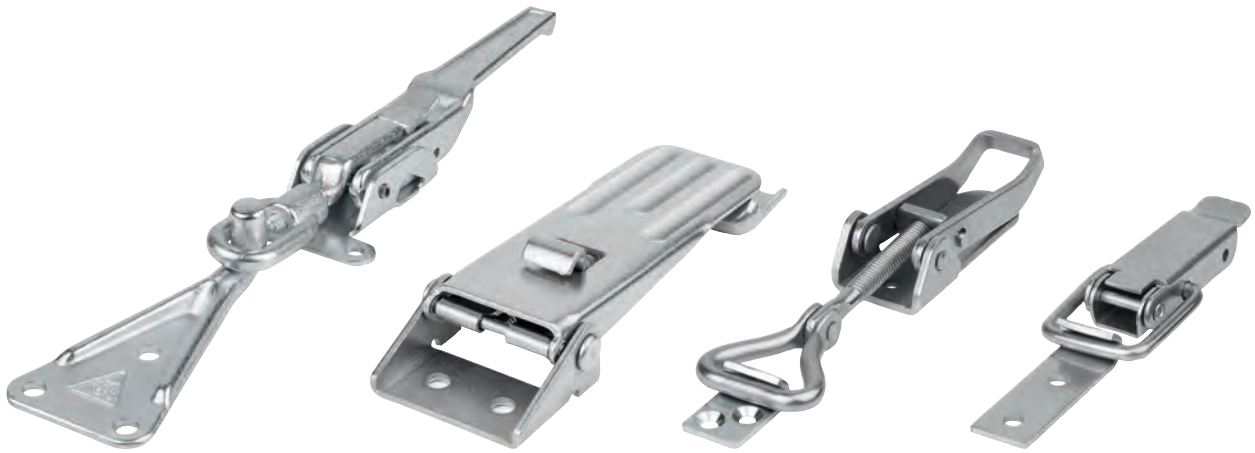
Note:
For telescopic slides with full extension, the travel is equal to the overall length, which guarantees more comfort and accessibility. Interlocks in closed position. The dynamic load capacity of the telescopic slides indicates the maximum load rating of a vertically mounted slide pair when the entire extension length is used. The value is lower for horizontal mounting. The specified load-bearing capacities refer to the maximum value at 10,000 or 100,000 cycles.

Attention:
All telescopic rails are tested to DIN EN 15338.

KIPP Telescopic slides, heavy-duty, full extension, load capacity up to 200 kg

Order No.	A	A1	A2	A3	C (travel)	L	Loading pair (10,000 cycles) kg	Loading per pair (100,000 cycles) kg	Loading per pair horizontal kg
K0544.10400	-	-	-	288	400	400	180	105	30
K0544.10450	-	-	160	320	450	450	190	115	30
K0544.10500	-	-	192	384	500	500	195	130	30
K0544.10550	-	-	224	448	550	550	200	130	30
K0544.10600	-	-	224	448	600	600	195	130	30
K0544.10700	-	192	384	576	700	700	175	130	30
K0544.10800	-	224	448	672	800	800	145	120	30
K0544.11100	224	448	672	896	1100	1100	105	90	20

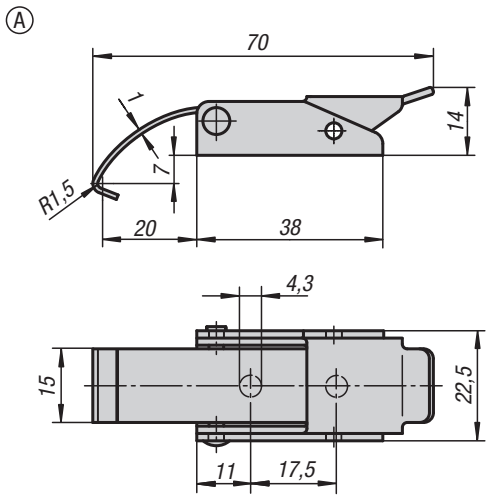
Latches

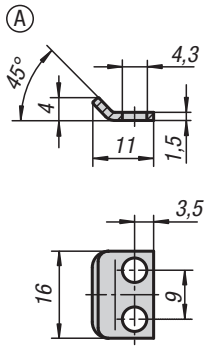


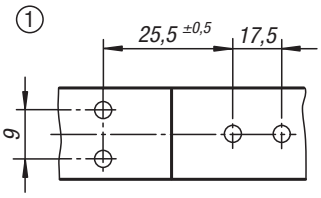
Latches

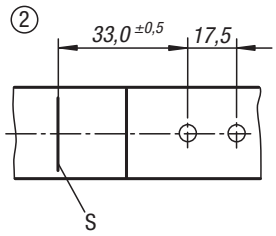
with spring clip











Material:
Steel or stainless steel 1.4301.

Version:
Galvanised and blue passivated
Stainless steel bright.

Sample order:
Latch K0043.1430701
Catch plate K0043.9143111

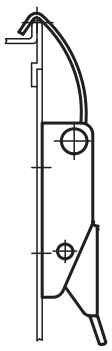
Note:
Latches with spring clips for safe holding and locking of hatches, container lids, machine cladding etc. By exceeding the dead centre they resist vibration.
The locking force is applied by tensioning a spring clip.

The latches can be screwed down or riveted.

Order catch plates separately.

The retaining force F1 applies to the latch, not the catch plate.

Drawing reference:
1) Hole arrangement for mounting with catch plate
2) Hole arrangement for mounting without catch plate
S = contact edge



KIPP Latches with spring clip

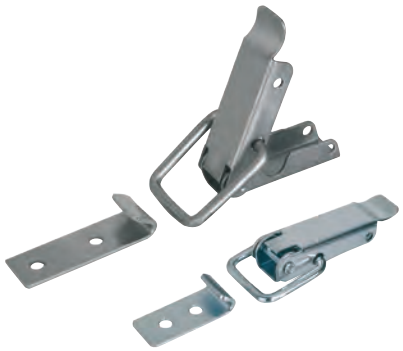
Order No. Steel	Order No. Stainless steel	Form	Retaining force F1 N
K0043.1430701	K0043.1430702	A	500

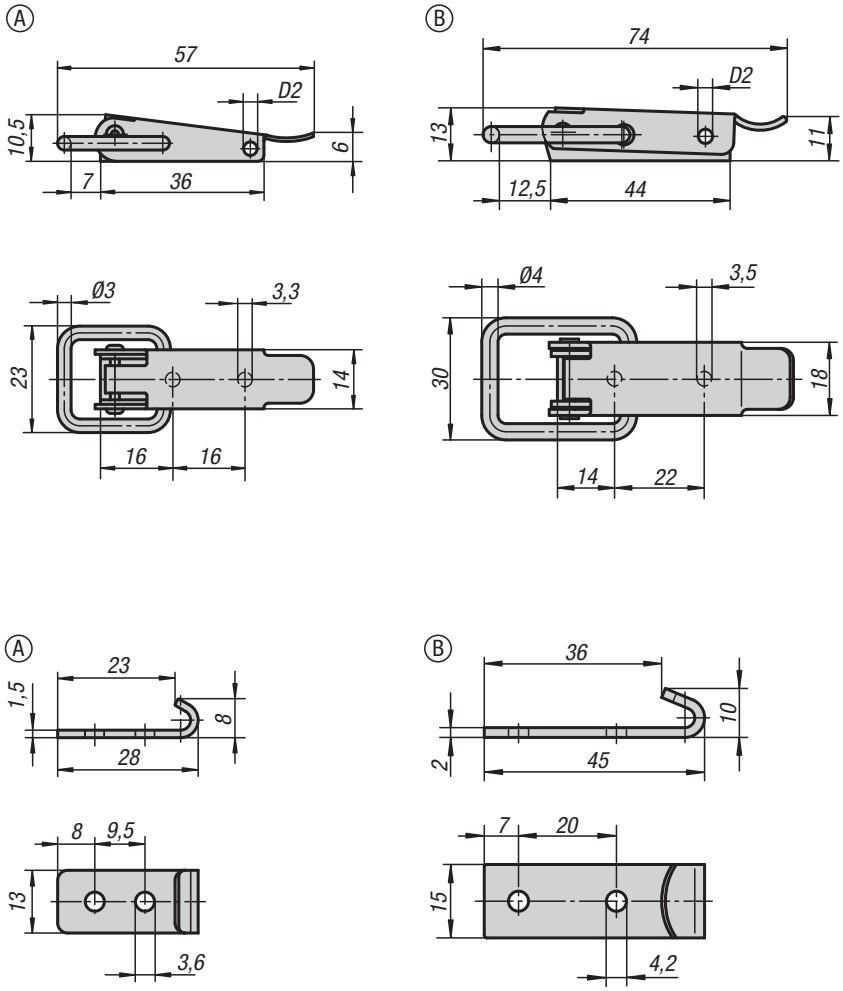
KIPP Catch plates

Order No. Steel	Order No. Stainless steel	Form
K0043.9143111	K0043.9143112	A

Latches

with draw bail





Material:
Steel or stainless steel 1.4301.

Version:
Galvanised and blue passivated
Stainless steel bright.

Sample order:
Latch K0044.1330571
Catch plate K0044.9136281

Note:
Latches with draw bail for safe holding and locking of hatches, container lids, machine cladding etc. By exceeding the dead centre they resist vibration.
The locking force is applied by drawing on the bail.

The hole D2 can be used to secure against unintentional opening or attaching an official lead seal.

The latches can be screwed down or riveted.

Order catch plates separately.

The retaining force F1 applies to the latch, not the catch plate.

KIPP Latches with draw bail

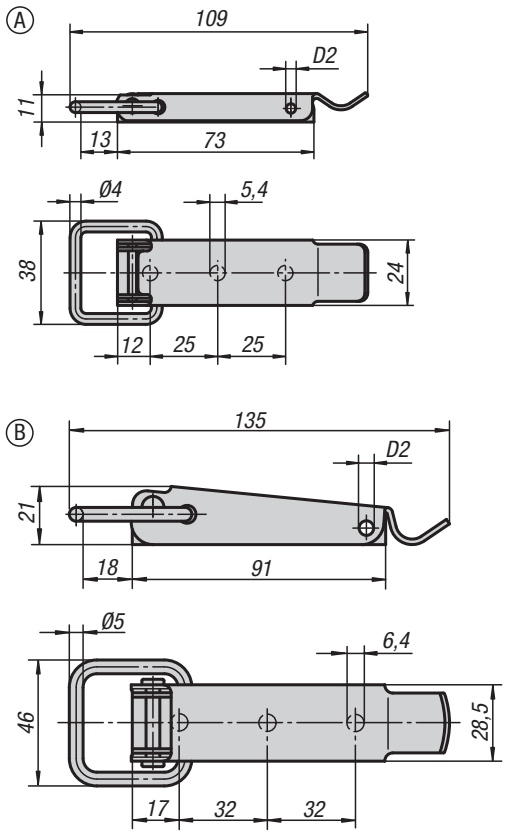
Order No. Steel	Order No. Stainless steel	Form	D2	Retaining force F1 N
K0044.1330571	K0044.1330572	A	2,8	1000
K0044.2350741	K0044.2350742	B	3,2	2000

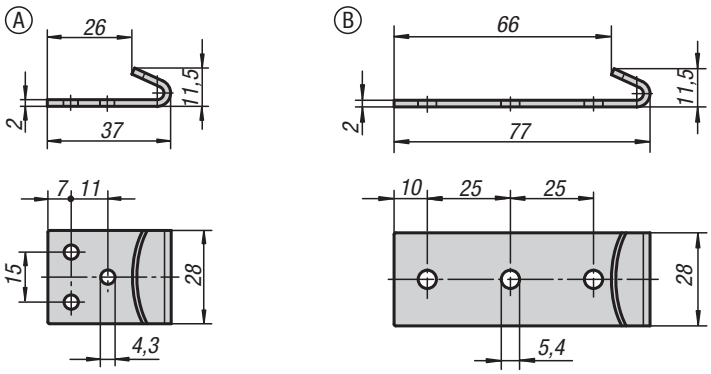
KIPP Catch plates

Order No. Steel	Order No. Stainless steel	Form
K0044.9136281	K0044.9136282	A
K0044.9242451	K0044.9242452	B

Latches

with draw bail







Material:
Steel or stainless steel 1.4301.

Version:
Galvanised and blue passivated
Stainless steel bright.

Sample order:
Latch K0045.1541091
Catch plate K0045.9143371

Note:
Latches with draw bail for safe holding and locking of hatches, container lids, machine cladding etc. By exceeding the dead centre they resist vibration.
The locking force is applied by drawing on the bail.

The hole D2 can be used to secure against unintentional opening or attaching an official lead seal.

The latches can be screwed down or riveted.

Order catch plates separately.

The retaining force F1 applies to the latch, not the catch plate.

On request:
Lockable version with padlock bracket.

KIPP Latches with draw bail

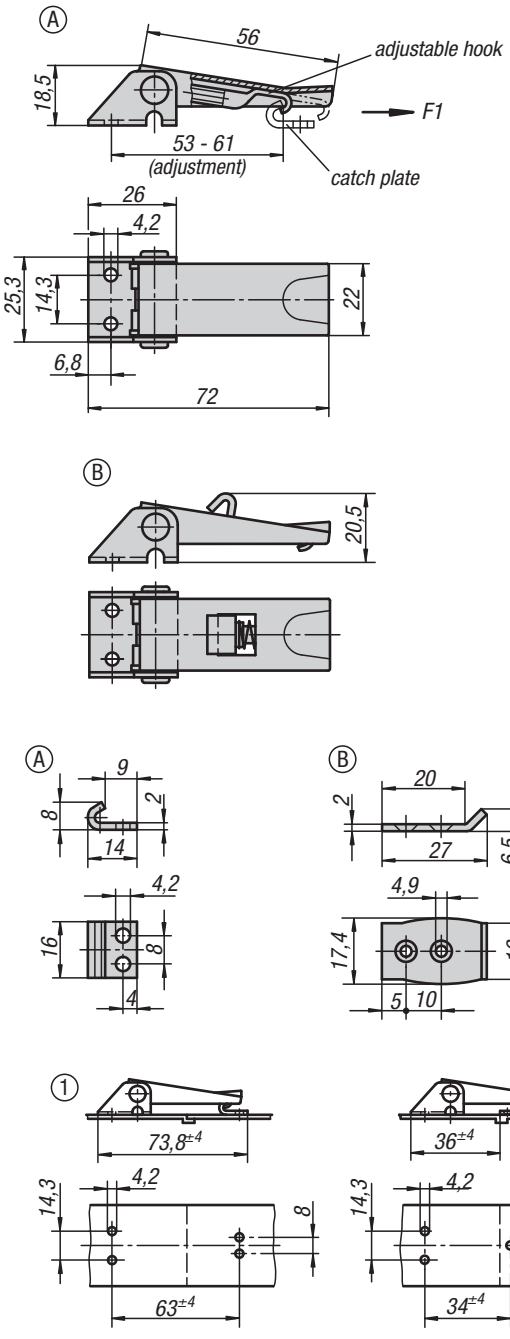
Order No. Steel	Order No. Stainless steel	Form	D2	Retaining force F1 N
K0045.1541091	K0045.1541092	A	3,2	2000
K0045.2641351	K0045.2641352	B	3,8	3000

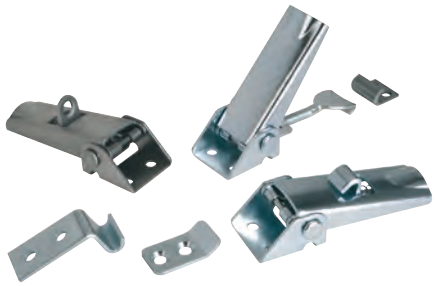
KIPP Catch plates

Order No. Steel	Order No. Stainless steel	Form
K0045.9143371	K0045.9143372	A
K0045.9254771	K0045.9254772	B

Latches adjustable

fastening holes accessible





Material:
Steel or stainless steel 1.4301.

Version:
Galvanised and blue passivated
Stainless steel bright.

Sample order:
Latch K0046.1420721
Catch plate K0046.9142141

Note:
Adjustable latches are safe locking systems for industrial applications. By exceeding the dead centre they resist vibration.

After the hook is engaged with the catch plate, by pushing the lever down the parts to be locked can be drawn together by up to 5 mm.
To compensate for tolerances or to create enough tension, the hook length can be adjusted using the M5 threaded spindle.

The latches can be screwed down or riveted.

Any catch plate can be combined with any latch.

Order required catch plate version separately.

The retaining force F1 applies to the latch, not the catch plate.

Drawing reference:
Form A standard
Form B with lock
Form C with padlock hole

1) Hole arrangements for assembly with catch plate

KIPP Latches adjustable, fastening holes accessible

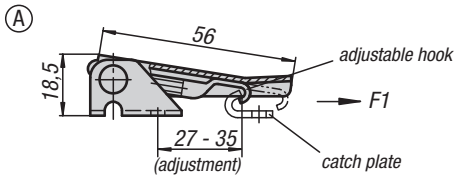
Order No. Steel	Order No. Stainless steel	Form	Retaining force F1 N
K0046.1420721	K0046.1420722	A	1000
K0046.2420721	K0046.2420722	B	1000
K0046.3420721	K0046.3420722	C	1000

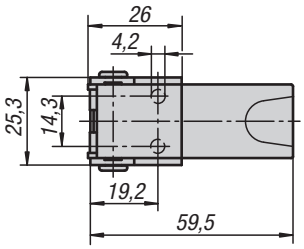
KIPP Catch plates

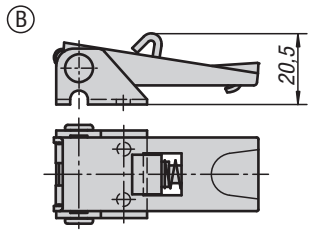
Order No. Steel	Order No. Stainless steel	Form
K0046.9142141	K0046.9142142	A
K0046.9242271	K0046.9242272	B
K0046.9342381	K0046.9342382	C

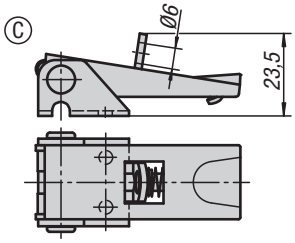
Latches adjustable

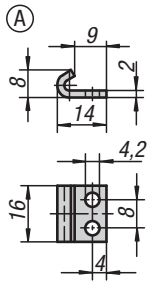
fastening holes covered

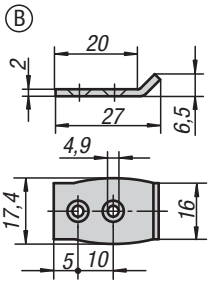


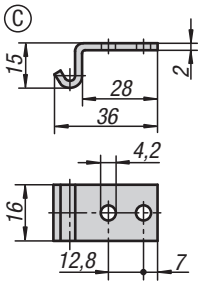


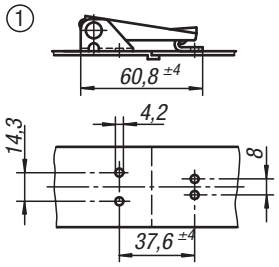


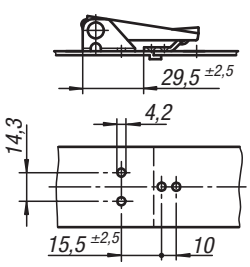


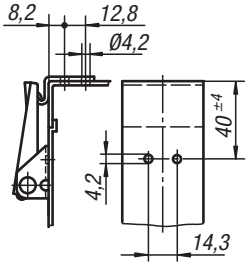














Material:
Steel or stainless steel 1.4301.

Version:
Galvanised and blue passivated
Stainless steel bright.

Sample order:
Latch K0047.1420601
Catch plate K0046.9142141

Note:
Adjustable latches are safe locking systems for industrial applications. By exceeding the dead centre they resist vibration.

After the hook is engaged with the catch plate, by pushing the lever down the parts to be locked can be drawn together by up to 5 mm.
To compensate for tolerances or to create enough tension, the hook length can be adjusted using the M5 threaded spindle.

The latches can be screwed down or riveted.

Any catch plate can be combined with any latch.

Order required catch plate version separately.

The retaining force F1 applies to the latch, not the catch plate.

Drawing reference:
Form A standard
Form B with lock
Form C with padlock hole

1) Hole arrangements for assembly with catch plate

KIPP Latches adjustable, fastening holes covered

Order No. Steel	Order No. Stainless steel	Form	Retaining force F1 N
K0047.1420601	K0047.1420602	A	1000
K0047.2420601	K0047.2420602	B	1000
K0047.3420601	K0047.3420602	C	1000

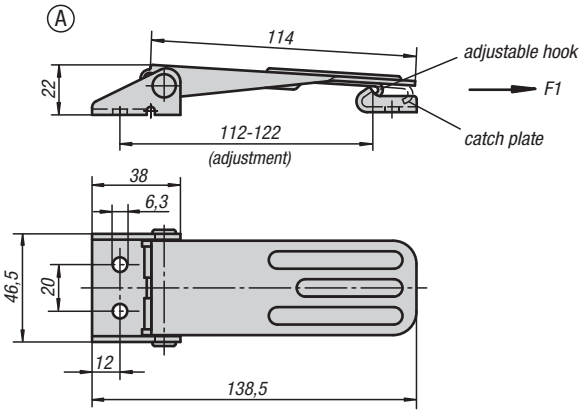
KIPP Catch plates

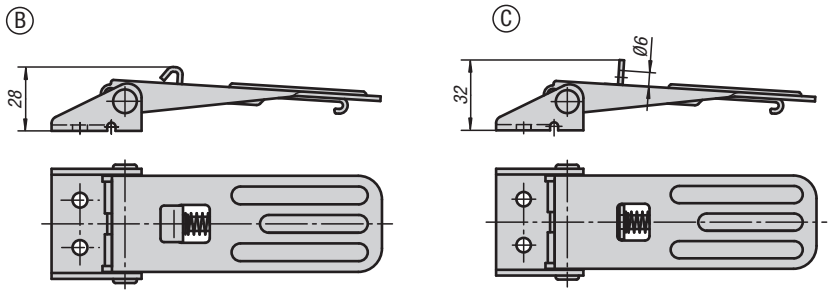
Order No. Steel	Order No. Stainless steel	Form
K0046.9142141	K0046.9142142	A
K0046.9242271	K0046.9242272	B
K0046.9342381	K0046.9342382	C

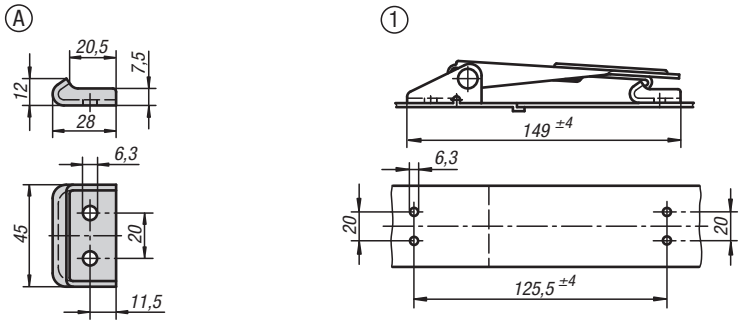
Latches adjustable

fastening holes accessible









Material:
Steel or stainless steel 1.4301.

Version:
Galvanised and blue passivated
Stainless steel bright.

Sample order:
Latch K0048.1631391
Catch plate K0048.9163281

Note:
Adjustable latches are safe locking systems for industrial applications. By exceeding the dead centre they resist vibration. These latches are very robust and have a low overall height.

After the hook is engaged with the catch plate, by pushing the lever down the parts to be locked can be drawn together by up to 6 mm. To compensate for tolerances or to create enough tension, the hook length can be adjusted using the M6 threaded spindle.

The latches can be screwed down or riveted.

Order required catch plate separately.

The retaining force F1 applies to the latch, not the catch plate.

Drawing reference:
Form A standard
Form B with lock
Form C with padlock hole

1) Hole arrangement for assembly with catch plate

KIPP Latches adjustable, fastening holes accessible

Order No. Steel	Order No. Stainless steel	Form	Retaining force F1 N
K0048.1631391	K0048.1631392	A	4000
K0048.2631391	K0048.2631392	B	4000
K0048.3631391	K0048.3631392	C	4000

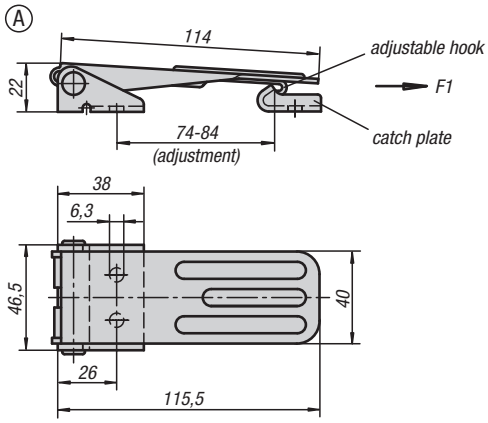
KIPP Catch plates

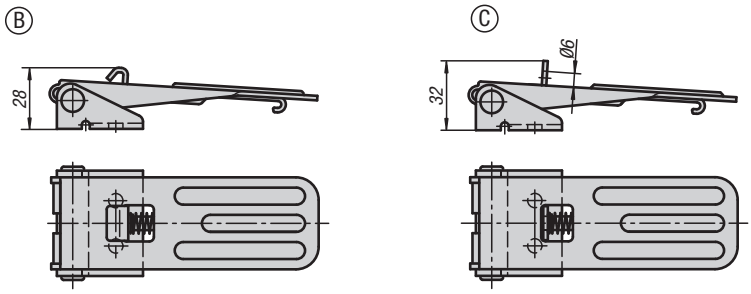
Order No. Steel	Order No. Stainless steel	Form
K0048.9163281	K0048.9163282	A

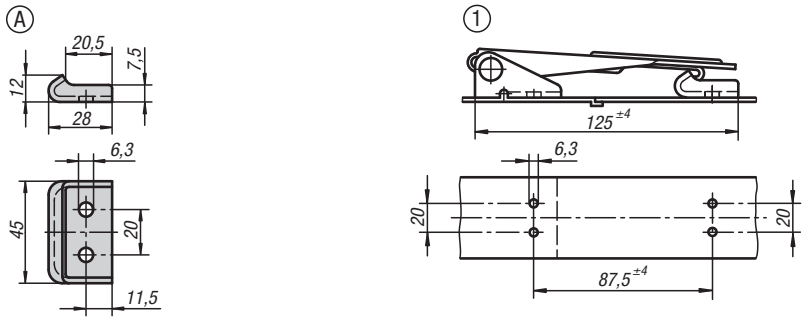
Latches adjustable

fastening holes covered









Material:
Steel or stainless steel 1.4301.

Version:
Galvanised and blue passivated
Stainless steel bright.

Sample order:
Latch K0049.1631161
Catch plate K0048.9163281

Note:
Adjustable latches are safe locking systems for industrial applications. By exceeding the dead centre they resist vibration. These latches are very robust and have a low overall height.

After the hook is engaged with the catch plate, by pushing the lever down the parts to be locked can be drawn together by up to 6 mm. To compensate for tolerances or to create enough tension, the hook length can be adjusted using the M6 threaded spindle.

The latches can be screwed down or riveted.

Order required catch plate separately.

The retaining force F1 applies to the latch, not the catch plate.

Drawing reference:
Form A standard
Form B with lock
Form C with padlock hole

1) Hole arrangement for assembly with catch plate

KIPP Latches adjustable, fastening holes covered

Order No. Steel	Order No. Stainless steel	Form	Retaining force F1 N
K0049.1631161	K0049.1631162	A	4000
K0049.2631161	K0049.2631162	B	4000
K0049.3631161	K0049.3631162	C	4000

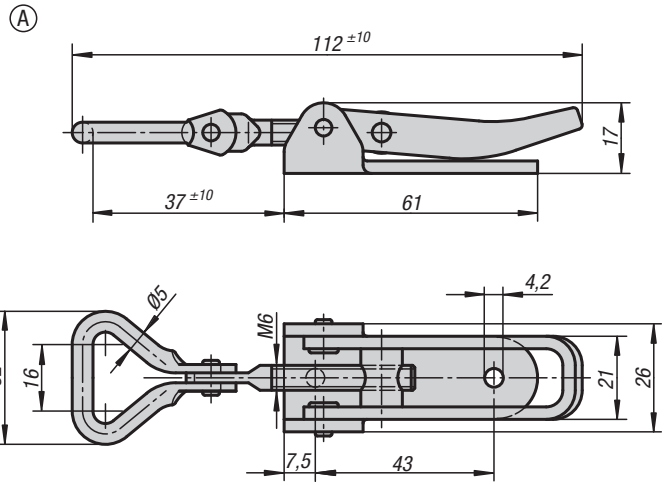
KIPP Catch plates

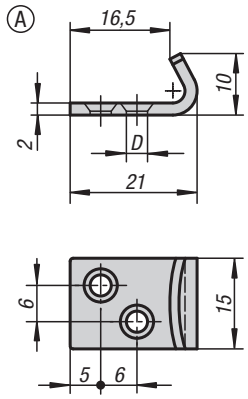
Order No. Steel	Order No. Stainless steel	Form
K0048.9163281	K0048.9163282	A

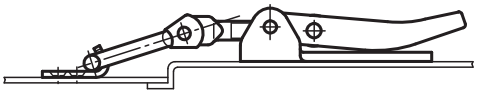
Latches adjustable

with swing bail









Material:
Steel or stainless steel 1.4301.

Version:
Galvanised and blue passivated
Stainless steel bright.

Sample order:
Latch K0050.1421121
Catch plate K0050.9135211

Note:
Adjustable latches are safe locking systems for industrial applications. By exceeding the dead centre they resist vibration. To compensate for tolerances the latch has a swing mounted bail.

After the bail is engaged with the catch plate, by pushing the lever down the parts to be locked can be drawn together by up to 15 mm. To compensate for tolerances or to create enough tension the bail length can be adjusted by the M6 threaded spindle.

The latches can be screwed down or riveted. We recommend using countersunk screws for fastening the components.

Order catch plates separately.

The retaining force F1 applies to the latch, not the catch plate.

On request:
Available with safeguard against unintentional opening.

Applications:
We recommend using countersunk screws for fastening the components.

KIPP Latches adjustable, with swing bail

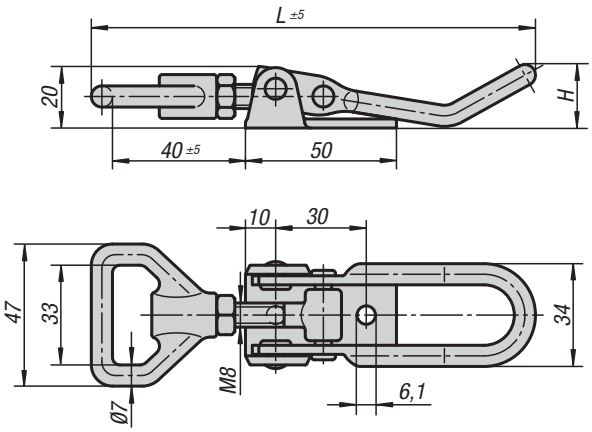
Order No. Steel	Order No. Stainless steel	Form	Retaining force F1 N
K0050.1421121	K0050.1421122	A	1000

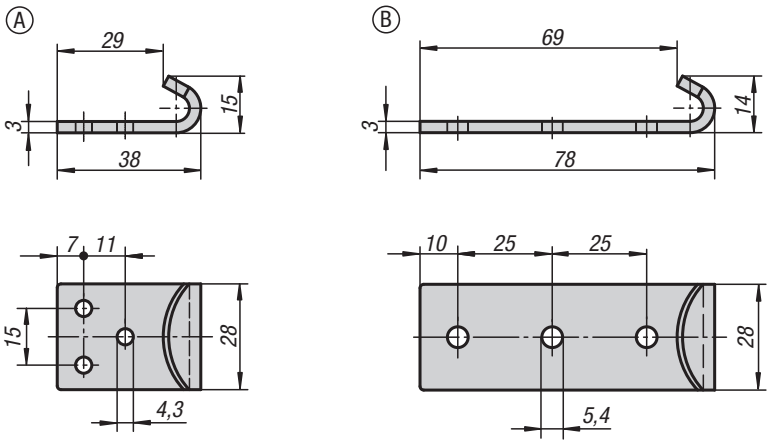
KIPP Catch plates

Order No. Steel	Order No. Stainless steel	Form	D
K0050.9135211	K0050.9135212	A	3,7

Latches adjustable







Material:
Steel or stainless steel 1.4301.

Version:
Galvanised and blue passivated
Stainless steel bright.

Sample order:
Latch K0051.1611451
Catch plate K0051.9143381

Note:
Adjustable latches are safe locking systems for industrial applications. By exceeding the dead centre they resist vibration.

After the bail engages with the catch plate, by pushing the lever down the parts to be locked can be drawn together by up to 15 mm. To compensate for tolerances or to create enough tension the bail length can be adjusted using the M8 spindle.

The latches can be screwed down or riveted. We recommend using countersunk screws for fastening the components.

Order the required catch plate version separately.

The retaining force F1 applies to the latch, not the catch plate.

On request:
Lockable version with padlock bracket.

Applications:
We recommend using countersunk screws for fastening the components.

KIPP Latches adjustable

Order No. Steel	Order No. Stainless steel	H	L	Retaining force F1 N
K0051.1611451	K0051.1611452	21	145	6500
K0051.1611681	K0051.1611682	36	168	6500

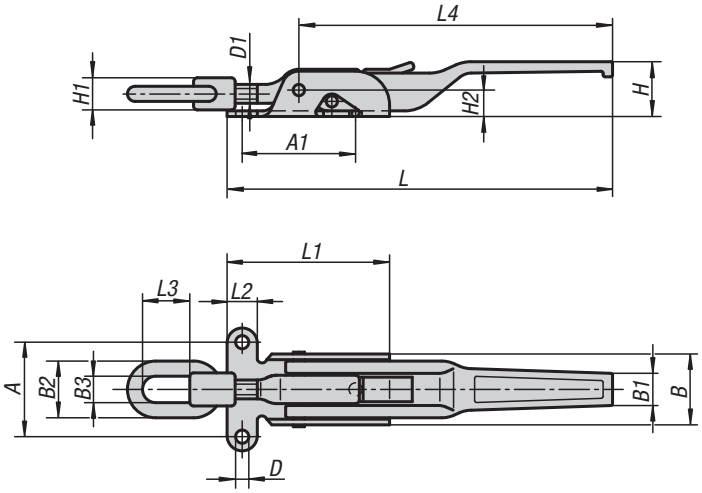
KIPP Catch plates

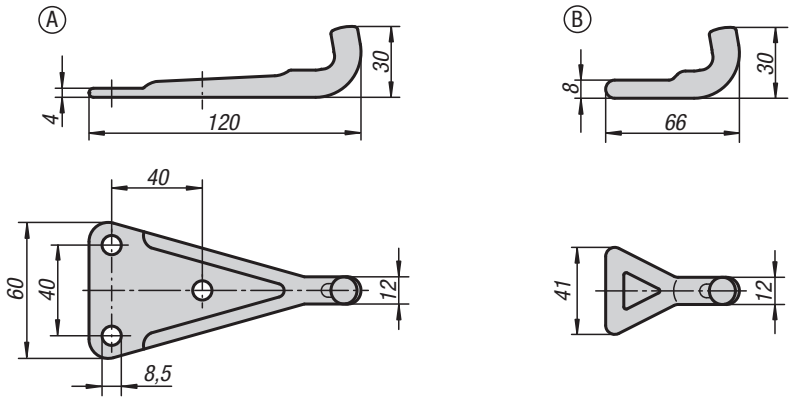
Order No. Steel	Order No. Stainless steel	Form
K0051.9143381	K0051.9143382	A
K0051.9254781	K0051.9254782	B

Latches adjustable

heavy-duty version







Material:
Steel.

Version:
Galvanised and blue passivated
Catch plate Form B (weldable), bright.

Sample order:
Latch K0052.1702041
Catch plate K0052.91851201

Note:
Heavy, forged latches for high tensile loads. Primarily used on utility vehicles, agricultural and construction machinery. A ratchet prevents unintentional opening when closed.

To compensate for tolerances or to create enough tension the bail can be adjusted using the spindle D1.

Order required catch plate version separately.

The retaining force F1 applies to the latch, not the catch plate.

KIPP Latches adjustable, heavy-duty version

Order No.	A	A1	B	B1	B2	B3	D	D1	H	H1	H2	L	L1	L2	L3	L4	Retaining force F1 N
K0052.1702041	50	62	37	18	30	14	7	M10	30	17	14	204	86	16	25	165	20000
K0052.1852371	65	82	50	20	36	15	8,5	M14x1,5	32	20	18	237	104	21	40	190	30500

KIPP Catch plates

Order No.	Form
K0052.91851201	A
K0052.92000601	B

Toggle clamps, power clamps



Technical information

Quick clamping - reliable fastening

Durable and reliable: KIPP lock
Now even more durable, user-friendly and safer - the new generation meets these targets very effectively. Operators will notice the difference in grip and stability of the new KIPP lock immediately. It is quick to use and still retains its reliability and safety. High-quality materials ensure the required resilience.

Secure fixation and locking: KIPP lock+
The inner locking system is a completely revolutionary development from KIPP. Nothing gets caught or stuck. Operation is easy even when wearing work gloves.

KIPPlock
with all the advantages



KIPPlock+
with all the advantages
with safety interlock



Advantages:

Impressively stable:
All models can easily withstand 300,000 clamping cycles

Durable:
High-quality bushings - without scoring

Extremely robust:
Corrosion-resistant NITROX COATING

Simple design
The fixed top nut eases spindle adjustment

Reliable:
Uniform force during opening and closing

Ideal where space is restricted:
Slim design supports safe operation

Optimum stability:
Conical clamping arm with U-profile

Safe application:
Nothing catches on the smooth edges

Fast and flexible:
Easy retrofitting thanks to a wide range of accessories

Ergonomic and slip-resistant:
Easy to operate when wearing work gloves

Non-reflecting
Ideal for use with laser devices

Safe when opening:
More space between clamping arm and grip prevents pinching

Extremely compatible:
Oblong holes allows assembly on existing holes

Functional principle:

KIPPlock+

Fig. 1:
Locking mechanism closed. Safe to use thanks to revolutionary grip - no pinch points or interfering contours

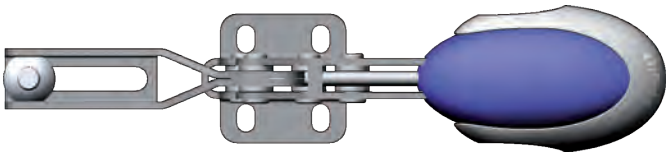


Fig. 2:
Inner rod locking mechanism with automatic safety catch. The lock is released by pulling the grip

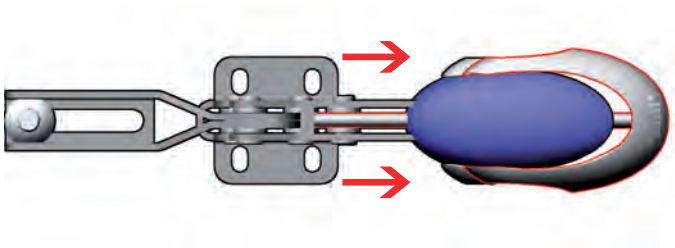
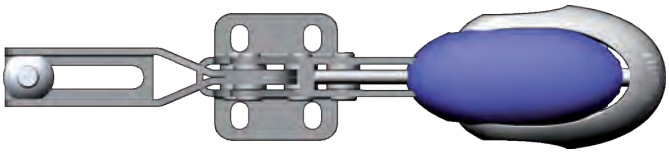


Fig. 3:
Locking mechanism open.
Release the grip to close the safety mechanism

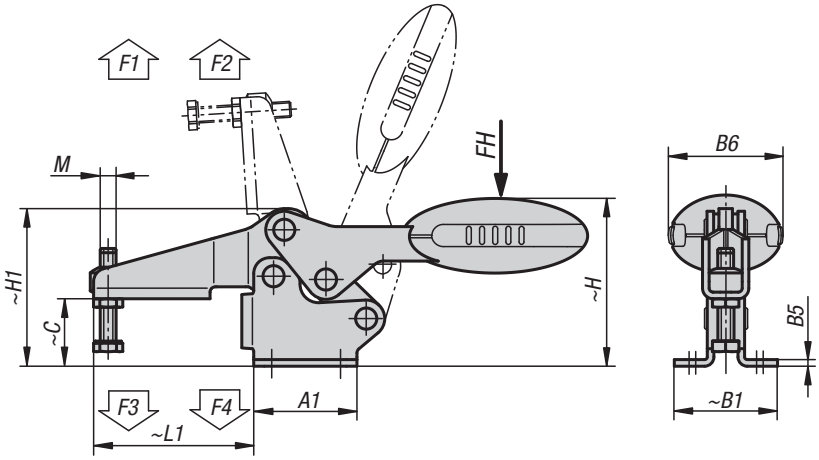


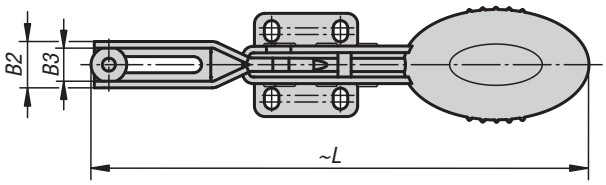
Toggle clamps horizontal

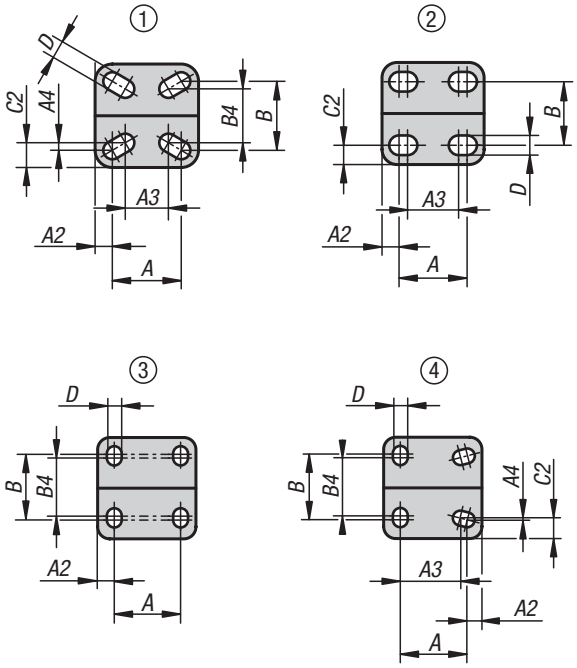
with flat foot and adjustable clamping spindle

KIPPlock









Material:
Steel.
Grip polyamide.

Version:
Nitro-carburized and black oxidized.

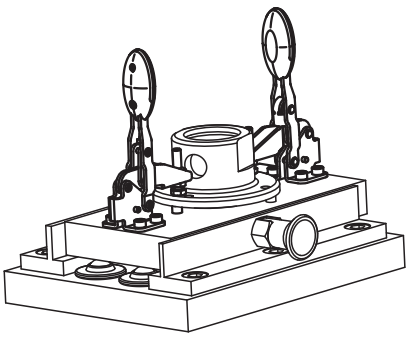
Sample order:
K0660.005001

Note:
Maintenance-free high quality link bushings. Sustainable constant force during opening and closing. Optimum stability through the conical, U-profile clamping arm.

Accessories:
K0106
K0098
K0383
K0388
K0390
K0391
K0392
K0393



Angle bracket for front face mounting (see accessories)



Toggle clamps horizontal

with flat foot and adjustable clamping spindle

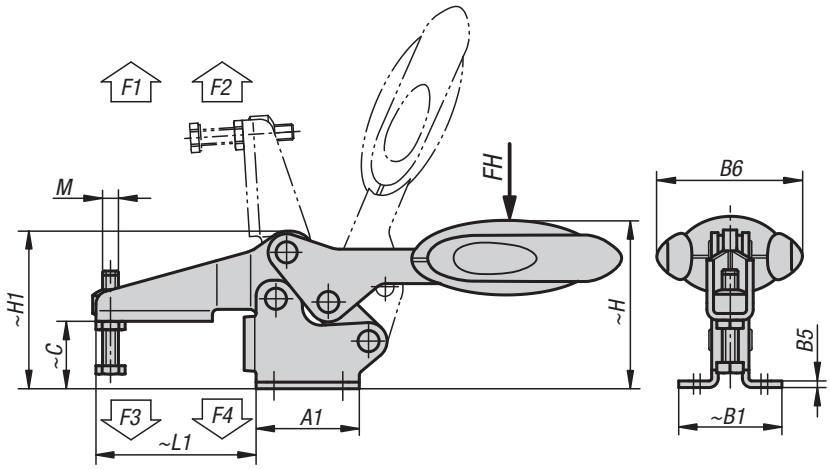
KIPP Toggle clamps horizontal with flat foot and adjustable clamping spindle

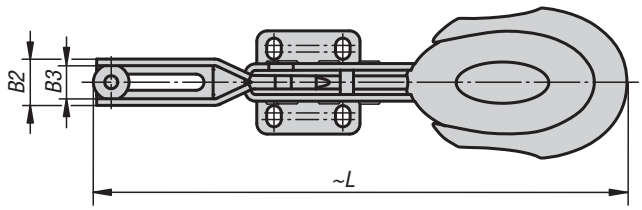
Order No.	hole arrangement	Opening angle of holding arm	Opening angle of handle	Hand force FH N	Retaining force F1 N	Retaining force F2 N	Clamping force F3 N	Clamping force F4 N	Order No. Angle bracket
K0660.004001	1	87°	69°	80	400	500	250	300	K0098.02
K0660.005001	2	86°	67°	100	650	900	550	620	K0098.02
K0660.006001	3	86°	67°	160	1350	1900	720	1200	K0098.04
K0660.008001	3	86°	67°	200	2000	2800	830	1400	K0098.04
K0660.010001	3	90°	71°	250	2200	4500	1200	2800	K0098.06
K0660.012001	4	88°	68°	280	2400	5500	1000	2800	K0098.06

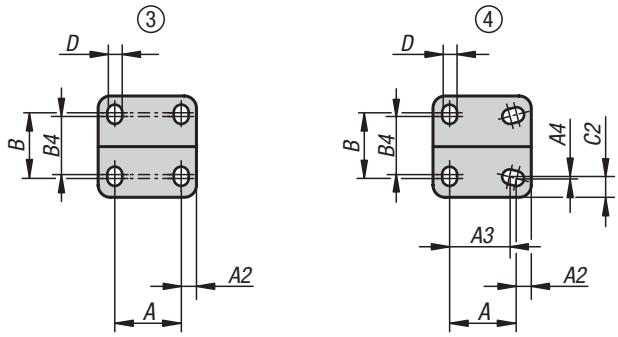
Order No.	M	A	A1	A2	A3	A4	B	B1	B2	B3	B4	B5	B6	C	C2	D	H	H1	L	L1
K0660.004001	M4x16	16	24	4	12,8	0,95	16	24	10,2	7,2	14,1	1,5	20	11,7	4,95	4,2	28,7	26,3	91,8	23,7
K0660.005001	M5x25	18	27	4,5	13,5	-	16,8	27,3	13,2	9,2	-	2	22,5	17,2	5,25	5,5	43,4	38,9	125,7	41,8
K0660.006001	M6x35	26	39	6,5	-	-	28	39	17,5	12,5	23	2,5	43,5	25,4	-	5,5	63,7	59,6	186,6	60,5
K0660.008001	M8x45	26	44	9	-	-	31	45	21	16	24	2,5	41,5	32,2	-	6,2	73,9	70,1	223,1	74,9
K0660.010001	M10x55	41,5	59	9	-	-	43	59	26	19	39	3,5	47	40	-	8,8	94,8	88	279,4	103,9
K0660.012001	M12x70	44	65	10	40	1	42	67	28	21	40	3,5	47	52,3	13,5	8,5	104,8	101,6	314,7	122

Toggle clamps horizontal with safety interlock

with flat foot and adjustable clamping spindle







KIPPlock+



Material:
Steel.
Grip polyamide.
Unlocking bracket TPE.

Version:
Nitro-carburized and black oxidized.

Sample order:
K0660.006101

Note:
Maintenance-free high quality link bushings. Sustainable constant force during opening and closing. Optimum stability through the conical, U-profile clamping arm. Including internal bar lock with automatic safety catch.

Accessories:
K0106
K0098
K0383
K0388
K0390
K0391
K0392
K0393

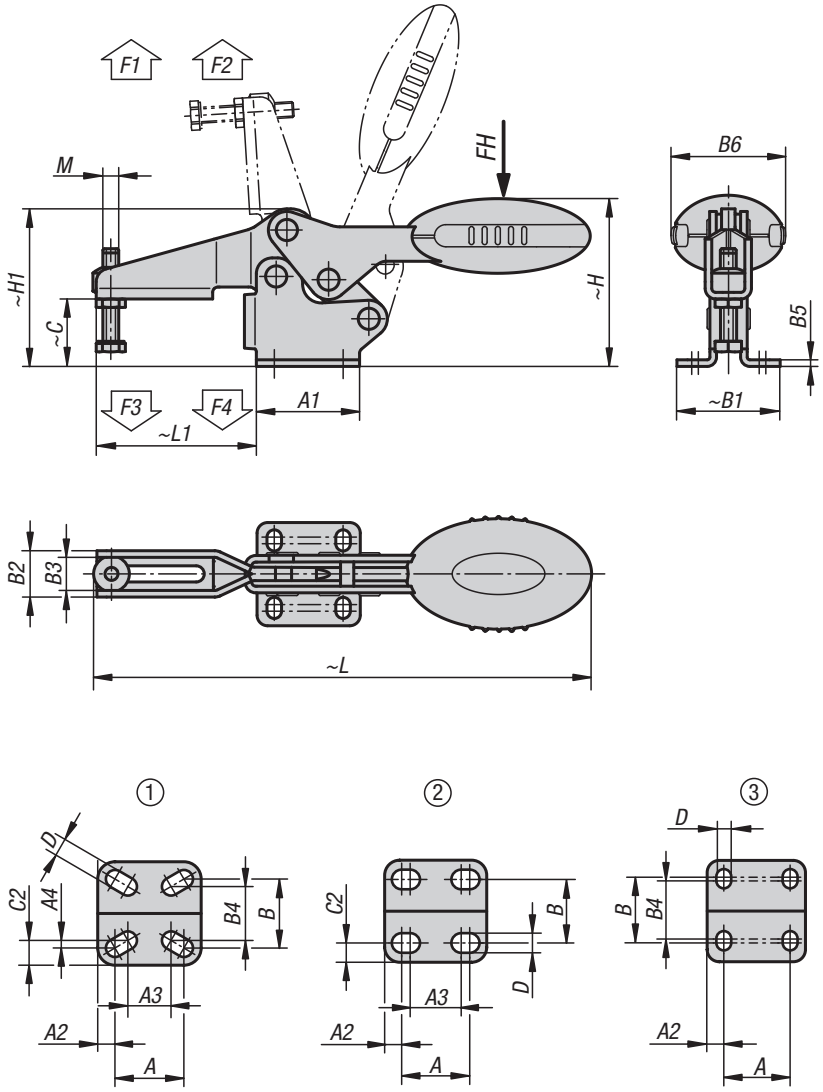
KIPP Toggle clamps horizontal with safety interlock, with flat foot and adjustable clamping spindle

Order No.	hole arrangement	Opening angle of holding arm	Opening angle of handle	Hand force FH N	Retaining force F1 N	Retaining force F2 N	Clamping force F3 N	Clamping force F4 N	Order No. Angle bracket
K0660.006101	3	86°	67°	160	1350	1900	720	1200	K0098.04
K0660.008101	3	86°	67°	200	2000	2800	830	1400	K0098.04
K0660.010101	3	90°	71°	250	2200	4500	1200	2800	K0098.06
K0660.012101	4	88°	68°	280	2400	5500	1000	2800	K0098.06

Order No.	M	A	A1	A2	A3	A4	B	B1	B2	B3	B4	B5	B6	C	C2	D	H	H1	L	L1
K0660.006101	M6x35	26	39	6,5	-	-	28	39	17,5	12,5	23	2,5	53,4	25,4	-	5,5	63,7	59,6	193,3	60,5
K0660.008101	M8x45	26	44	9	-	-	31	45	21	16	24	2,5	51,1	32,2	-	6,2	73,9	70,1	230,4	74,9
K0660.010101	M10x55	41,5	59	8,5	-	-	43	59	26	19	39	3,5	56,5	40	-	8,8	94,8	88	286	103,9
K0660.012101	M12x70	44	65	10	40	1	42	67	28	21	40	3,5	56,5	52,3	13,5	8,5	104,8	101,6	321,3	122

Toggle clamps horizontal

with flat foot and adjustable clamping spindle, stainless steel



KIPPlock



Material:
Stainless steel.
Grip polyamide.

Version:
Bright.

Sample order:
K0660.105001

Note:
Maintenance-free high quality link bushings. Sustainable constant force during opening and closing. Optimum stability through the conical, U-profile clamping arm.

Accessories:
K0106
K0384
K0390
K0392
K0667

KIPP Toggle clamps horizontal with flat foot, stainless steel

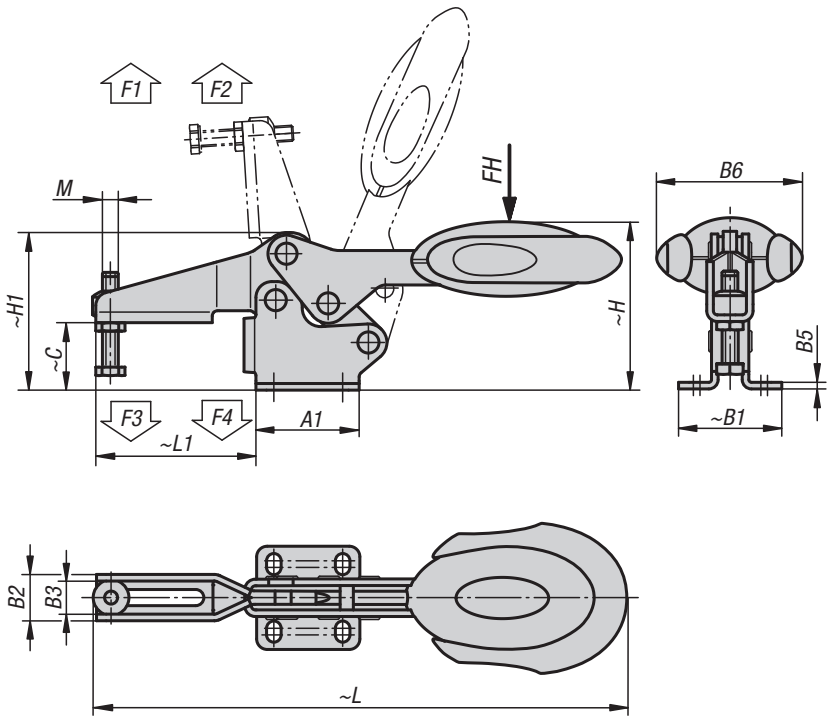
Order No.	hole arrangement	Opening angle of holding arm	Opening angle of handle	Hand force FH N	Retaining force F1 N	Retaining force F2 N	Clamping force F3 N	Clamping force F4 N
K0660.104001	1	87°	69°	80	400	500	250	300
K0660.105001	2	86°	67°	100	650	900	550	620
K0660.106001	3	86°	67°	160	1350	1900	720	1200
K0660.108001	3	86°	67°	200	2000	2800	830	1400

Order No.	M	A	A1	A2	A3	A4	B	B1	B2	B3	B4	B5	B6	C	C2	D	H	H1	L	L1
K0660.104001	M4x16	16	24	4	12,8	0,95	16	24	10,2	7,2	12,5	1,5	20	11,7	4,95	4,2	28,7	26,3	91,8	23,7
K0660.105001	M5x25	18	27	4,5	13,5	-	16,8	27,3	13,2	9,2	-	2	22,5	17,2	5,25	5,5	43,4	38,9	125,7	41,8
K0660.106001	M6x35	26	39	6,5	-	-	28	39	17,5	12,5	23	2,5	43,5	25,4	-	5,5	63,7	59,6	186,6	60,5
K0660.108001	M8x45	26	44	9	-	-	31	45	21	16	24	2,5	41,5	32,2	-	6,2	73,9	70,1	223,1	74,9

Toggle clamps horizontal with safety interlock

with flat foot and adjustable clamping spindle, stainless steel





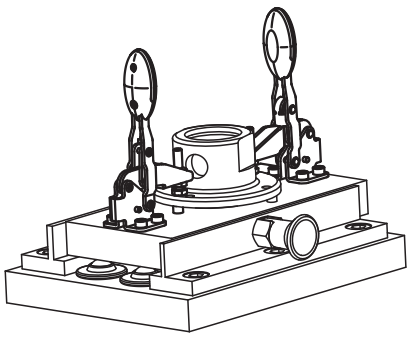
Material:
Stainless steel.
Grip polyamide.
Unlocking bracket TPE.

Version:
Bright.

Sample order:
K0660.106101

Note:
Maintenance-free high quality link bushings. Sustainable constant force during opening and closing. Optimum stability through the conical, U-profile clamping arm. Including internal bar lock with automatic safety catch.

Accessories:
K0106
K0384
K0390
K0392
K0667



KIPP Toggle clamps horizontal with flat foot and safety interlock, stainless steel

Order No.	hole arrangement	Opening angle of holding arm	Opening angle of handle	Hand force FH N	Retaining force F1 N	Retaining force F2 N	Clamping force F3 N	Clamping force F4 N
K0660.106101	3	86°	67°	160	1350	1900	720	1200
K0660.108101	3	86°	67°	200	2000	2800	830	1400

Order No.	M	A	A1	A2	B	B1	B2	B3	B4	B5	B6	C	D	H	H1	L	L1
K0660.106101	M6x35	26	39	6,5	28	39	17,5	12,5	23	2,5	53,4	25,4	5,5	63,7	59,6	193,3	60,5
K0660.108101	M8x45	26	44	9	31	45	21	16	24	2,5	51,1	32,2	6,2	73,9	70,1	230,4	74,9

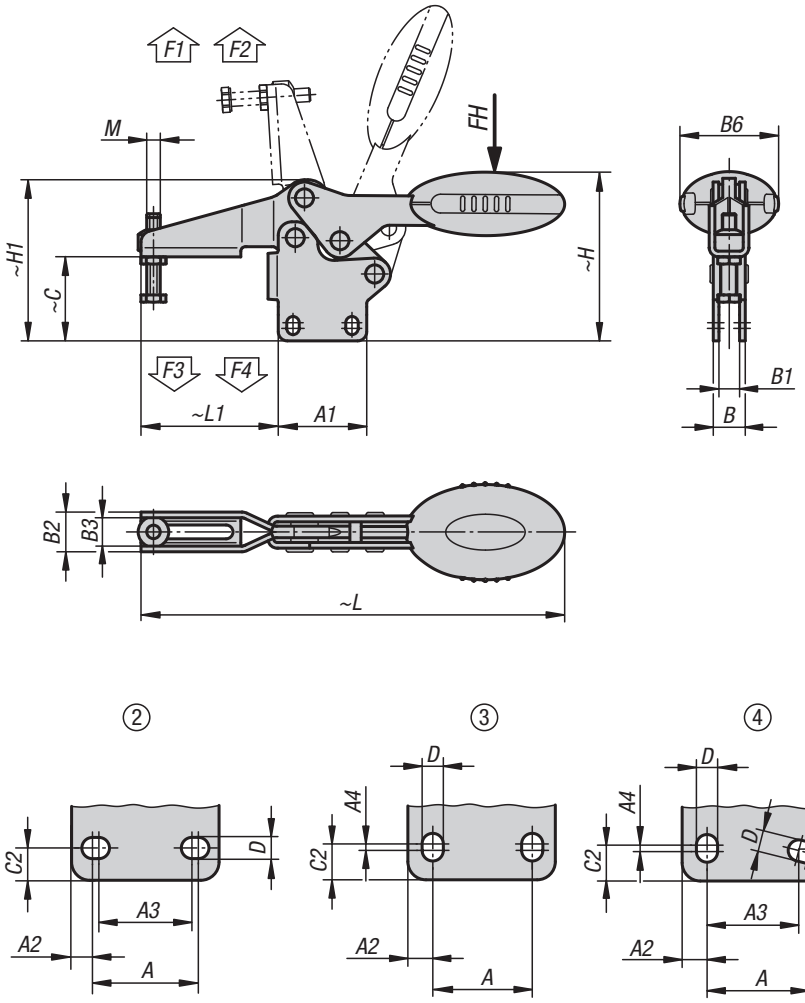
Notes

Toggle clamps horizontal

with straight foot and adjustable clamping spindle

KIPPlock





Material:
Steel.
Grip polyamide.

Version:
Nitro-carburized and black oxidized.

Sample order:
K0661.005001

Note:
Maintenance-free high quality link bushings. Sustainable constant force during opening and closing. Optimum stability through the conical, U-profile clamping arm.

Accessories:
K0106
K0383
K0388
K0390
K0391
K0392
K0393

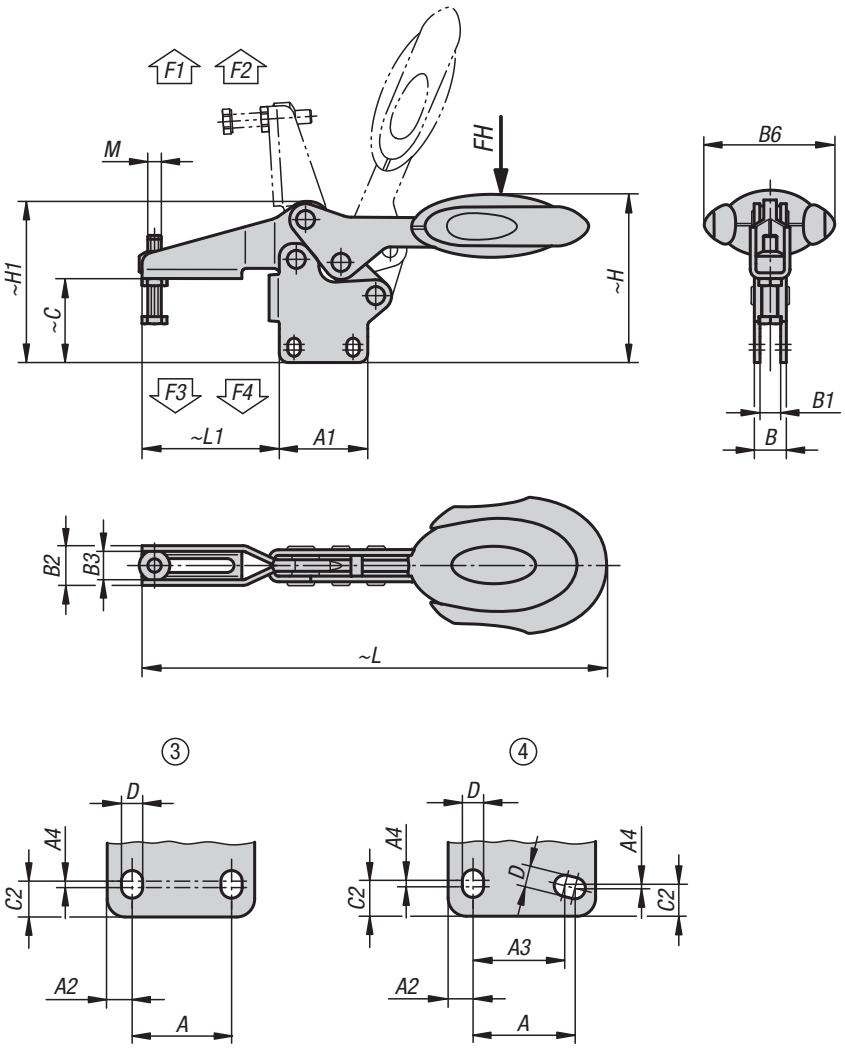
KIPP Toggle clamps horizontal with straight foot and adjustable clamping spindle

Order No.	hole arrangement	Opening angle of holding arm	Opening angle of handle	Hand force FH N	Retaining force F1 N	Retaining force F2 N	Clamping force F3 N	Clamping force F4 N
K0661.005001	2	86°	67°	100	650	900	550	620
K0661.006001	3	86°	67°	160	1350	1900	720	1200
K0661.008001	3	86°	67°	200	2000	2800	830	1400
K0661.010001	3	90°	71°	250	2200	4500	1200	2800
K0661.012001	4	88°	68°	280	2400	5500	1000	2800

Order No.	M	A	A1	A2	A3	A4	B	B1	B2	B3	B6	C	C2	D	H	H1	L	L1
K0661.005001	M5x25	18	27	4,5	13,5	-	8,1	4,1	13,2	9,2	22,5	26,2	5,2	5,5	52,2	47,9	125,7	41,8
K0661.006001	M6x35	26	39	6,5	-	2,5	14,1	9,1	17,5	12,5	43,5	36,9	8	5,5	75,2	71	186,6	60,5
K0661.008001	M8x45	26	44	9	-	3,5	14,1	9,1	21	16	41,5	46,5	10,5	6,2	88,2	84,3	223,1	74,9
K0661.010001	M10x55	41,5	59	9	-	2	16,2	9,2	26	19	47	59,6	10	8,8	114,3	107,5	279,4	103,9
K0661.012001	M12x70	44	65	11	40	1	16,2	9,2	28	21	47	75,9	13,5	8,5	128,4	125,2	314,7	122

Toggle clamps horizontal with safety interlock

with straight foot and adjustable clamping spindle





Material:
Steel.
Grip polyamide.
Unlocking bracket TPE.

Version:
Nitro-carburized and black oxidized.

Sample order:
K0661.006101

Note:
Maintenance-free high quality link bushings. Sustainable constant force during opening and closing. Optimum stability through the conical, U-profile clamping arm. Including internal bar lock with automatic safety catch.

Accessories:
K0106
K0383
K0388
K0390
K0391
K0392
K0393

KIPP Toggle clamps horizontal with safety interlock with straight foot and adjustable clamping spindle

Order No.	hole arrangement	Opening angle of holding arm	Opening angle of handle	Hand force FH N	Retaining force F1 N	Retaining force F2 N	Clamping force F3 N	Clamping force F4 N
K0661.006101	3	86°	67°	160	1350	1900	720	1200
K0661.008101	3	86°	67°	200	2000	2800	830	1400
K0661.010101	3	90°	71°	250	2200	4500	1200	2800
K0661.012101	4	88°	68°	280	2400	5500	1000	2800

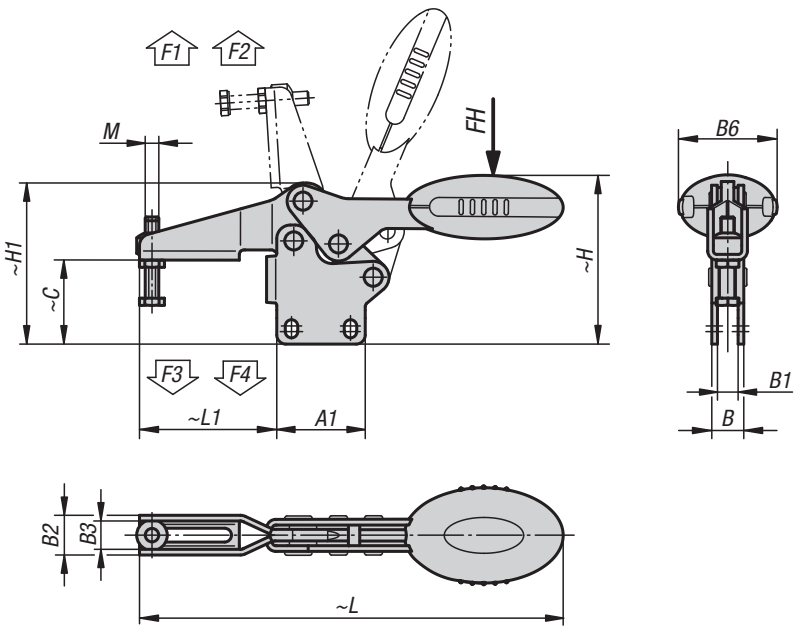
Order No.	M	A	A1	A2	A3	A4	B	B1	B2	B3	B6	C	C2	D	H	H1	L	L1
K0661.006101	M6x35	26	39	6,5	-	2,5	14,1	9,1	17,5	12,5	53,4	36,9	8	5,5	75,2	71	193,3	60,5
K0661.008101	M8x45	26	44	9	-	3,5	14,1	9,1	21	16	51,1	46,5	10,5	6,2	88,2	84,3	230,4	74,9
K0661.010101	M10x55	41,5	59	9	-	2	16,2	9,2	26	19	56,5	59,6	10	8,8	114,3	107,5	286	103,9
K0661.012101	M12x70	44	65	11	40	1	16,2	9,2	28	21	56,5	75,9	13,5	8,5	128,4	125,2	321,3	122

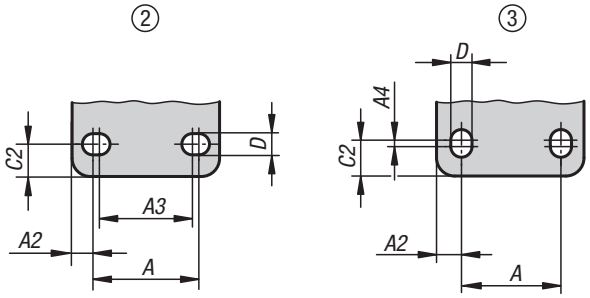
Toggle clamps horizontal

with straight foot and adjustable clamping spindle, stainless steel

KIPPlock







Material:
Stainless steel.
Grip polyamide.

Version:
Bright.

Sample order:
K0661.105001

Note:
Maintenance-free high quality link bushings. Sustainable constant force during opening and closing. Optimum stability through the conical, U-profile clamping arm.

Accessories:
K0106
K0384
K0390
K0392
K0667

KIPP Toggle clamps horizontal with straight foot and adjustable clamping spindle, stainless steel

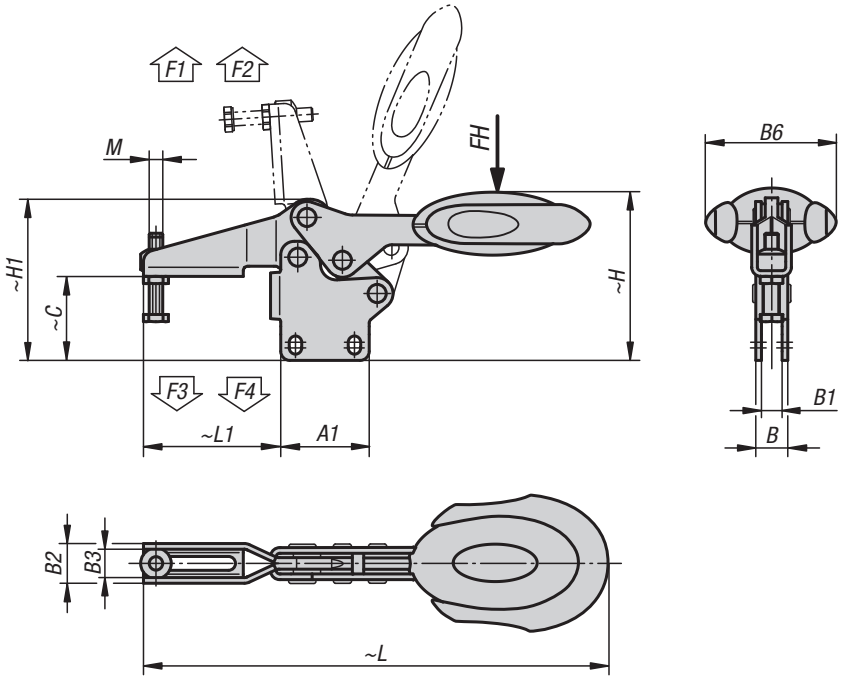
Order No.	hole arrangement	Opening angle of holding arm	Opening angle of handle	Hand force FH N	Retaining force F1 N	Retaining force F2 N	Clamping force F3 N	Clamping force F4 N
K0661.105001	2	86°	67°	100	650	900	550	620
K0661.106001	3	86°	67°	160	1350	1900	720	1200
K0661.108001	3	86°	67°	200	2000	2800	830	1400

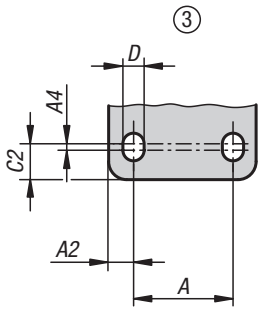
Order No.	M	A	A1	A2	A3	A4	B	B1	B2	B3	B6	C	C2	D	H	H1	L	L1
K0661.105001	M5x25	18	27	4,5	13,5	-	8,1	4,1	13,2	9,2	22,5	26,2	5,2	5,5	52,2	47,9	125,7	41,8
K0661.106001	M6x35	26	39	6,5	-	2,5	14,1	9,1	17,5	12,5	43,5	36,9	8	5,5	75,2	71	186,6	60,5
K0661.108001	M8x45	26	44	9	-	3,5	14,1	9,1	21	16	41,5	46,5	10,5	6,2	88,2	84,3	223,1	74,9

Toggle clamps horizontal with safety interlock

with straight foot and adjustable clamping spindle, stainless steel







Material:
Stainless steel.
Grip polyamide.
Unlocking bracket TPE.

Version:
Bright.

Sample order:
K0661.106101

Note:
Maintenance-free high quality link bushings. Sustainable constant force during opening and closing. Optimum stability through the conical, U-profile clamping arm. Including internal bar lock with automatic safety catch.

Accessories:
K0106
K0384
K0390
K0392
K0667

KIPP Toggle clamps horizontal with safety interlock with straight foot and adjustable clamping spindle, stainless steel

Order No.	hole arrangement	Opening angle of holding arm	Opening angle of handle	Hand force FH N	Retaining force F1 N	Retaining force F2 N	Clamping force F3 N	Clamping force F4 N
K0661.106101	3	86°	67°	160	1350	1900	720	1200
K0661.108101	3	86°	67°	200	2000	2800	830	1400

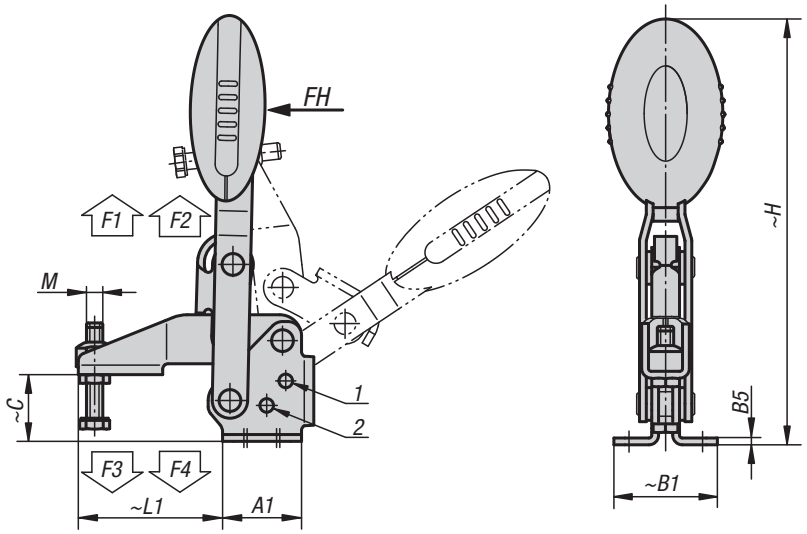
Order No.	M	A	A1	A2	A4	B	B1	B2	B3	B6	C	C2	D	H	H1	L	L1
K0661.106101	M6x35	26	39	6,5	2,5	14,1	9,1	17,5	12,5	53,4	36,9	8	5,5	75,2	71	193,3	60,5
K0661.108101	M8x45	26	44	9	3,5	14,1	9,1	21	16	51,1	46,5	10,5	6,2	88,2	84,3	230,4	74,9

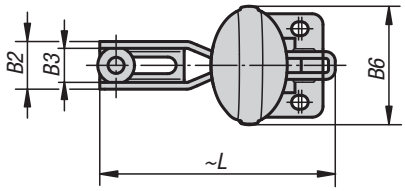
Toggle clamps vertical

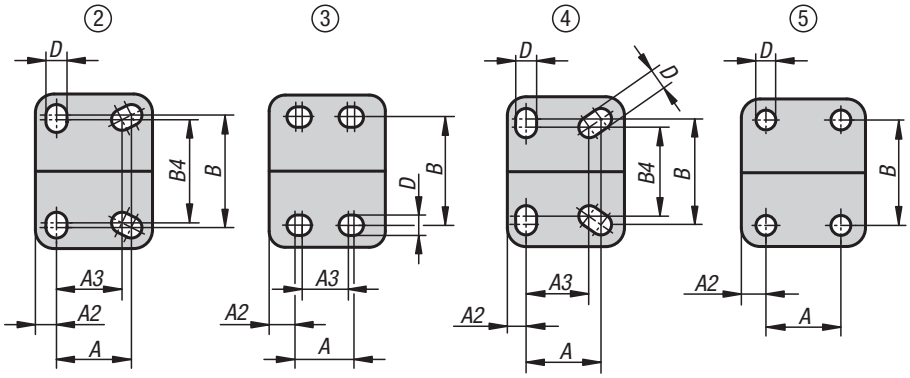
with flat foot and adjustable clamping spindle

KIPPlock









Material:
Steel.
Grip polyamide.

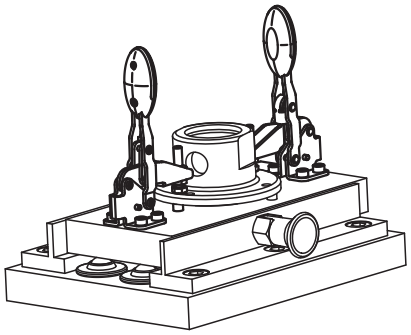
Version:
Nitro-carburized and black oxidized.

Sample order:
K0662.005001

Note:
Maintenance-free high quality link bushings. Sustainable constant force during opening and closing. Optimum stability through the conical, U-profile clamping arm.

Accessories:
K0106
K0098
K0383
K0388
K0390
K0391
K0392
K0393

Drawing reference:
1) stop pin position 1
2) stop pin position 2



Toggle clamps vertical

with flat foot and adjustable clamping spindle

KIPP Toggle clamps vertical with flat foot and adjustable clamping spindle

Order No.	Opening angle holding arm position 1	Opening angle holding arm position 2	Opening angle holding arm stop pin removed	Opening angle handle position 1	Opening angle handle position 2	Opening angle handle stop pin removed
K0662.005001	100°	-	147°	64°	-	83°
K0662.006001	56°	83°	152°	46°	56°	83°
K0662.008001	13°	93°	158°	26°	61°	86°
K0662.010001	6°	97°	176°	19°	59°	91°
K0662.012001	11°	88°	164°	24°	60°	91°

Order No.	Hand force FH N	Retaining force F1 N	Retaining force F2 N	Clamping force F3 N	Clamping force F4 N	Order No. Angle bracket
K0662.005001	100	750	1050	620	750	K0098.02
K0662.006001	160	1350	1650	920	1050	K0098.02
K0662.008001	190	2000	2800	940	1350	K0098.04
K0662.010001	250	2500	4500	1500	2800	K0098.06
K0662.012001	280	3000	5500	1400	2800	K0098.06

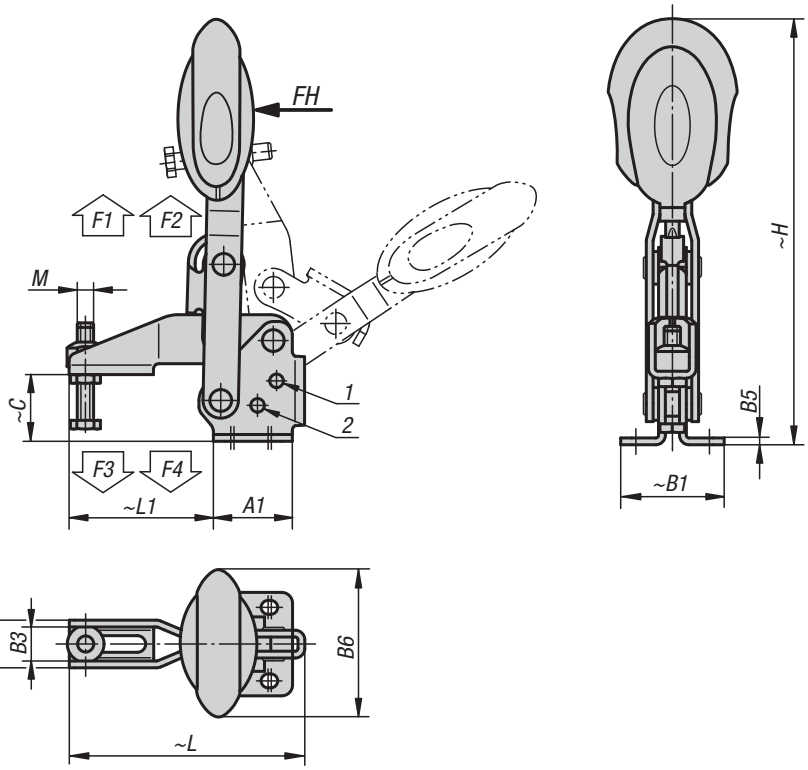
Order No.	hole arrangement	M	A	A1	A2	A3	B	B1	B2	B3	B4	B5	B6	C	D	H	L	L1
K0662.005001	2	M5x25	16	25	4,5	14	24	33	13,2	9,2	22	2	22,5	18	4,5	107,4	65,6	35
K0662.006001	3	M6x35	14	29	7	12	27	38	17,5	12,5	-	2,5	43,5	24,9	5,5	156,3	86,5	53
K0662.008001	3	M8x45	21	39	9	19	32	45	20,6	15,6	-	2,5	41,5	32,7	6,8	184,2	107	62
K0662.010001	4	M10x55	32	50	8	27	45	64	25,5	18,5	38	3,5	47	38,7	9	223,9	153	95
K0662.012001	5	M12x70	32	53	10,5	-	45	63	28	21	-	3,5	47	46,7	8,8	242,4	173,5	113,5

Toggle clamps vertical with safety interlock

with flat foot and adjustable clamping spindle



KIPPlock+



Material:
Steel.
Grip polyamide.
Unlocking bracket TPE.

Version:
Nitro-carburized and black oxidized.

Sample order:
K0662.006101

Note:
Maintenance-free high quality link bushings. Sustainable constant force during opening and closing. Optimum stability through the conical, U-profile clamping arm. Including internal bar lock with automatic safety catch.

Accessories:
K0106
K0098
K0383
K0388
K0390
K0391
K0392
K0393

Drawing reference:
1) stop pin position 1
2) stop pin position 2

Toggle clamps vertical with safety interlock

with flat foot and adjustable clamping spindle

KIPP Toggle clamps vertical with safety interlock with flat foot and adjustable clamping spindle

Order No.	Opening angle holding arm position 1	Opening angle holding arm position 2	Opening angle holding arm stop pin removed	Opening angle handle position 1	Opening angle handle position 2	Opening angle handle stop pin removed
K0662.006101	56°	83°	152°	46°	56°	83°
K0662.008101	13°	93°	158°	26°	61°	86°
K0662.010101	6°	97°	176°	19°	59°	91°
K0662.012101	11°	88°	164°	24°	60°	91°

Order No.	Hand force FH N	Retaining force F1 N	Retaining force F2 N	Clamping force F3 N	Clamping force F4 N	Order No. Angle bracket
K0662.006101	160	1350	1650	920	1050	K0098.02
K0662.008101	190	2000	2800	940	1350	K0098.04
K0662.010101	250	2500	4500	1500	2800	K0098.06
K0662.012101	280	3000	5500	1400	2800	K0098.06

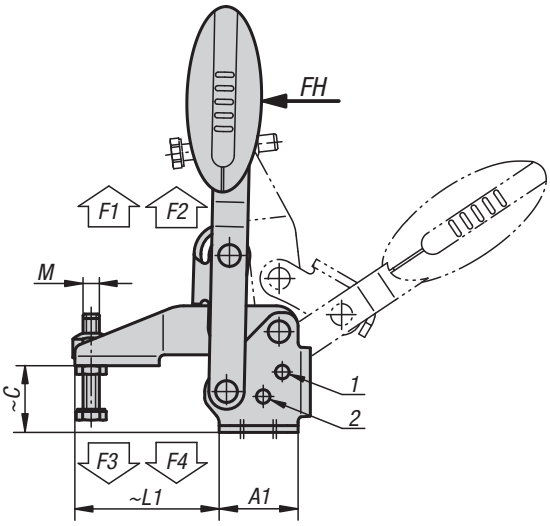
Order No.	hole arrangement	M	A	A1	A2	A3	B	B1	B2	B3	B4	B5	B6	C	D	H	L	L1
K0662.006101	3	M6x35	14	29	7	12	27	38	17,5	12,5	-	2,5	53,4	24,9	5,5	163	86,5	53
K0662.008101	3	M8x45	21	39	9	19	32	45	20,6	15,6	-	2,5	51,1	32,7	6,8	191,4	107	62
K0662.010101	4	M10x55	32	50	8	27	45	64	25,5	18,5	38	3,5	56,5	38,7	9	230,5	153	95
K0662.012101	5	M12x70	32	53	10,5	-	45	63	28	21	-	3,5	56,5	46,7	8,8	249,1	173,5	113,5

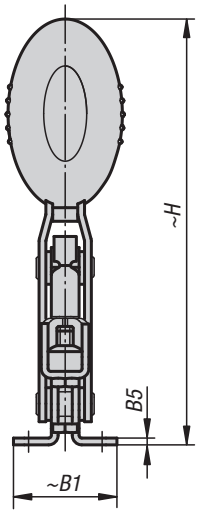
Toggle clamps vertical

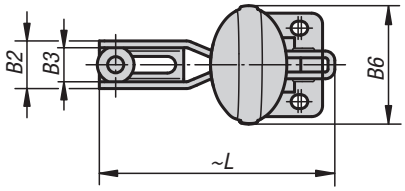
with flat foot and adjustable clamping spindle, stainless steel

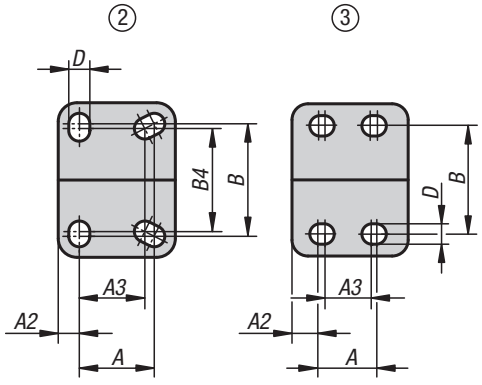


KIPPlock









Material:
Stainless steel.
Grip polyamide.

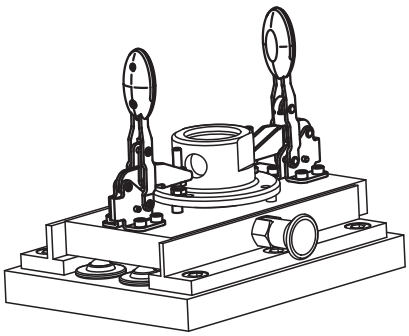
Version:
Bright.

Sample order:
K0662.105001

Note:
Maintenance-free high quality link bushings. Sustainable constant force during opening and closing. Optimum stability through the conical, U-profile clamping arm.

Accessories:
K0106
K0384
K0390
K0392
K0667

Drawing reference:
1) stop pin position 1
2) stop pin position 2



Toggle clamps vertical

with flat foot and adjustable clamping spindle, stainless steel

KIPP Toggle clamps vertical with flat foot and adjustable clamping spindle, stainless steel

Order No.	Opening angle holding arm position 1	Opening angle holding arm position 2	Opening angle holding arm stop pin removed	Opening angle handle position 1	Opening angle handle position 2	Opening angle handle stop pin removed
K0662.105001	100°	-	147°	64°	-	83°
K0662.106001	56°	83°	152°	46°	56°	83°
K0662.108001	13°	93°	158°	26°	61°	86°

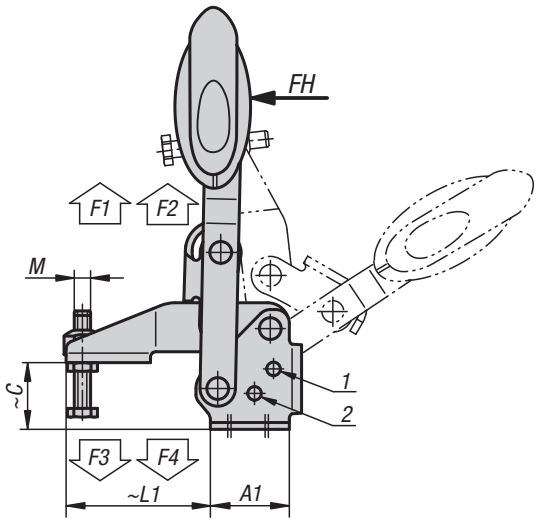
Order No.	Hand force FH N	Retaining force F1 N	Retaining force F2 N	Clamping force F3 N	Clamping force F4 N
K0662.105001	100	750	1050	620	750
K0662.106001	160	1350	1650	920	1050
K0662.108001	190	2000	2800	940	1350

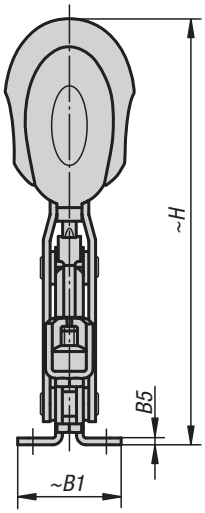
Order No.	hole arrangement	M	A	A1	A2	A3	B	B1	B2	B3	B4	B5	B6	C	D	H	L	L1
K0662.105001	2	M5x25	16	25	4,5	14	24	33	13,2	9,2	22	2	22,5	18	4,5	107,4	65,6	35
K0662.106001	3	M6x35	14	29	7	12	27	38	17,5	12,5	-	2,5	43,5	24,9	5,5	156,3	86,5	53
K0662.108001	3	M8x45	21	39	9	19	32	45	20,6	15,6	-	2,5	41,5	32,7	6,8	184,2	107	62

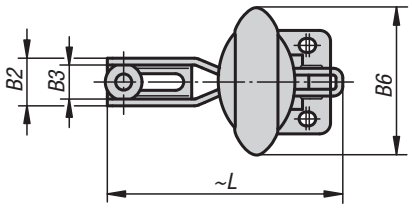
Toggle clamps vertical with safety interlock

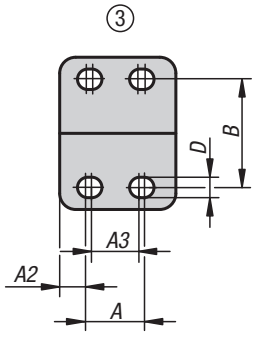
with flat foot and adjustable clamping spindle, stainless steel











Material:
Stainless steel.
Grip polyamide.
Unlocking bracket TPE.

Version:
Bright.

Sample order:
K0662.106101

Note:
Maintenance-free high quality link bushings. Sustainable constant force during opening and closing. Optimum stability through the conical, U-profile clamping arm. Including internal bar lock with automatic safety catch.

Accessories:
K0106
K0384
K0390
K0392
K0667

Drawing reference:
1) stop pin position 1
2) stop pin position 2

Toggle clamps vertical with safety interlock

with flat foot and adjustable clamping spindle, stainless steel

KIPP Toggle clamps, vertical with safety interlock, with flat foot and adjustable clamping spindle, stainless steel

Order No.	Opening angle holding arm position 1	Opening angle holding arm position 2	Opening angle holding arm stop pin removed	Opening angle handle position 1	Opening angle handle position 2	Opening angle handle stop pin removed
K0662.106101	56°	83°	152°	46°	56°	83°
K0662.108101	13°	93°	158°	26°	61°	86°

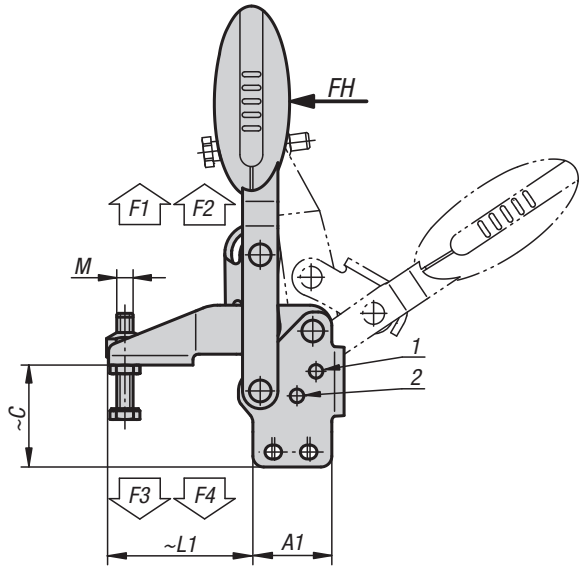
Order No.	Hand force FH N	Retaining force F1 N	Retaining force F2 N	Clamping force F3 N	Clamping force F4 N
K0662.106101	160	1350	1650	920	1050
K0662.108101	190	2000	2800	940	1350

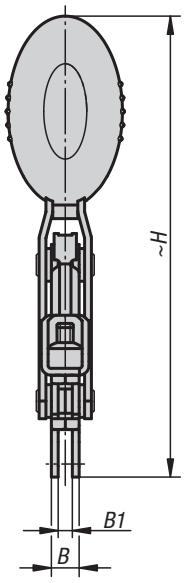
Order No.	hole arrangement	M	A	A1	A2	A3	B	B1	B2	B3	B5	B6	C	D	H	L	L1
K0662.106101	3	M6x35	14	29	7	12	27	38	17,5	12,5	2,5	53,4	24,9	5,5	163	86,5	53
K0662.108101	3	M8x45	21	39	9	19	32	45	20,6	15,6	2,5	51,1	32,7	6,8	191,4	107	62

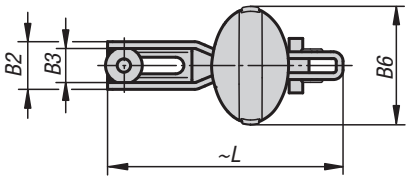
Toggle clamps vertical

with straight foot and adjustable clamping spindle

KIPPlock









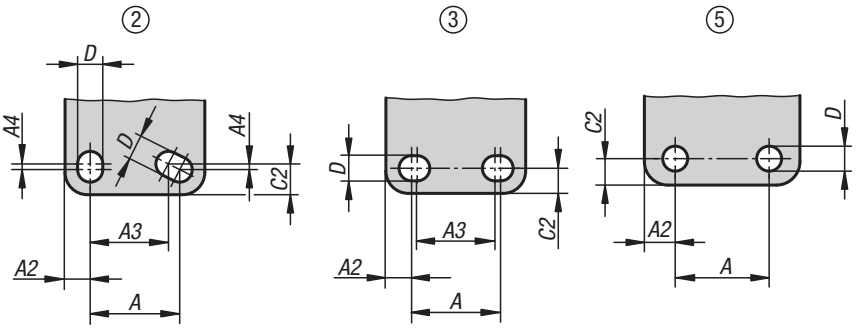
Material:
Steel.
Grip polyamide.

Version:
Nitro-carburized and black oxidized.

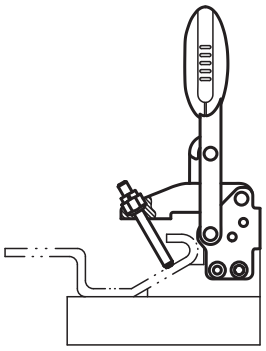
Sample order:
K0663.005001

Note:
Maintenance-free high quality link bushings. Sustainable constant force during opening and closing. Optimum stability through the conical, U-profile clamping arm.

Accessories:
K0106
K0383
K0388
K0390
K0391
K0392
K0393



Drawing reference:
1) stop pin position 1
2) stop pin position 2



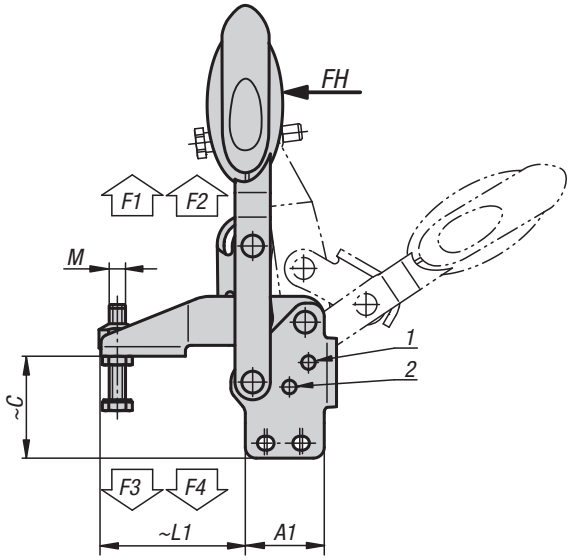
KIPP Toggle clamps vertical with straight foot and adjustable clamping spindle

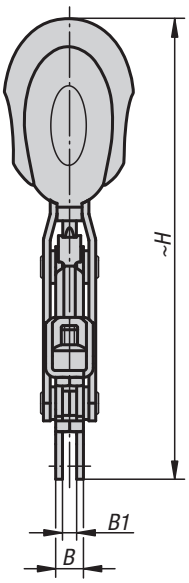
Order No.	Opening angle holding arm position 1	Opening angle holding arm position 2	Opening angle holding arm stop pin removed	Opening angle handle position 1	Opening angle handle position 2	Hand force FH N	Retaining force F1 N	Retaining force F2 N	Clamping force F3 N	Clamping force F4 N
K0663.005001	100°	-	129°	64°	-	100	750	1050	620	750
K0663.006001	56°	83°	141°	46°	56°	160	1350	1650	920	1050
K0663.008001	13°	93°	158°	26°	61°	190	2000	2800	940	1350
K0663.010001	6°	97°	176°	19°	59°	250	2500	4500	1500	2800
K0663.012001	11°	88°	164°	24°	60°	280	3000	5500	1400	2800

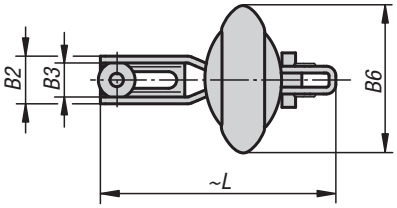
Order No.	hole arrangement	M	A	A1	A2	A3	A4	B	B1	B2	B3	B6	C	C2	D	H	L	L1
K0663.005001	2	M5x25	16	25	4,5	14	1	8,1	4,1	13,2	9,2	22,5	29,8	5,5	4,5	119,2	65,6	35
K0663.006001	3	M6x35	14	29	7	12	-	10,2	5,2	17,5	12,5	43,5	37,6	5,5	5,5	169	86,5	53
K0663.008001	3	M8x45	21	39	9	19	-	10,2	5,2	20,6	15,6	41,5	49	6,5	6,8	200,4	107	62
K0663.010001	2	M10x55	32	50	8	27	3,5	14,1	7,1	25,5	18,5	47	62,3	13	9	247,4	153	95
K0663.012001	5	M12x70	32	53	10,5	-	-	14,1	7,1	28	21	47	69,8	9	8,8	265,5	173,5	113,5

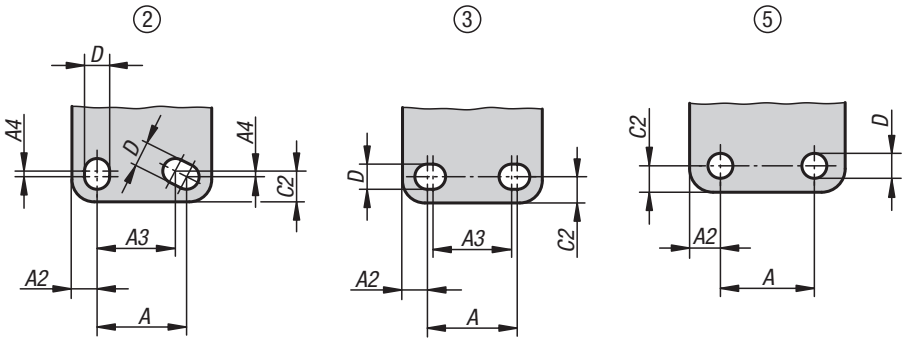
Toggle clamps vertical with safety interlock

with straight foot and adjustable clamping spindle











KIPPlock+

Material:
Steel.
Grip polyamide.
Unlocking bracket TPE.

Version:
Nitro-carburized and black oxidized.

Sample order:
K0663.006101

Note:
Maintenance-free high quality link bushings. Sustainable constant force during opening and closing. Optimum stability through the conical, U-profile clamping arm. Including internal bar lock with automatic safety catch.

Accessories:
K0106
K0383
K0388
K0390
K0391
K0392
K0393

Drawing reference:
1) stop pin position 1
2) stop pin position 2

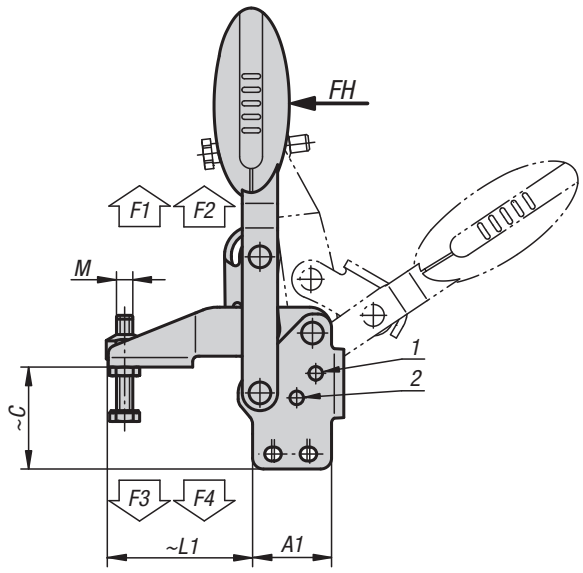
KIPP Toggle clamps vertical with safety interlock, with straight foot and adjustable clamping spindle

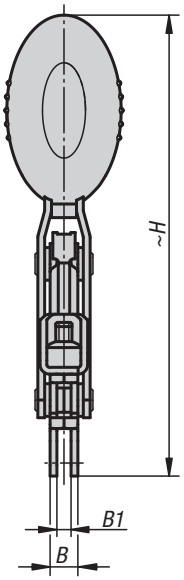
Order No.	Opening angle holding arm position 1	Opening angle holding arm position 2	Opening angle holding arm stop pin removed	Opening angle handle position 1	Opening angle handle position 2	Hand force FH N	Retaining force F1 N	Retaining force F2 N	Clamping force F3 N	Clamping force F4 N
K0663.006101	56°	83°	141°	46°	56°	160	1350	1650	920	1050
K0663.008101	13°	93°	158°	26°	61°	190	2000	2800	940	1350
K0663.010101	6°	97°	176°	19°	59°	250	2500	4500	1500	2800
K0663.012101	11°	88°	164°	24°	60°	280	3000	5500	1400	2800

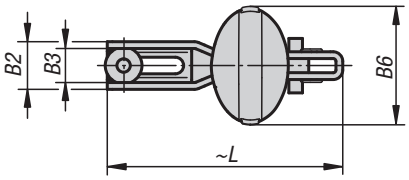
Order No.	hole arrangement	M	A	A1	A2	A3	A4	B	B1	B2	B3	B6	C	C2	D	H	L	L1
K0663.006101	3	M6x35	14	29	7	12	-	10,2	5,2	17,5	12,5	53,4	37,6	5,5	5,5	175,7	86,5	53
K0663.008101	3	M8x45	21	39	9	19	-	10,2	5,2	20,6	15,6	51,1	49	6,5	6,8	207,6	107	62
K0663.010101	2	M10x55	32	50	8	27	3,5	14,1	7,1	25,5	18,5	56,5	62,3	13	9	254	153	95
K0663.012101	5	M12x70	32	53	10,5	-	-	14,1	7,1	28	21	56,5	69,8	9	8,8	272,1	173,5	113,5

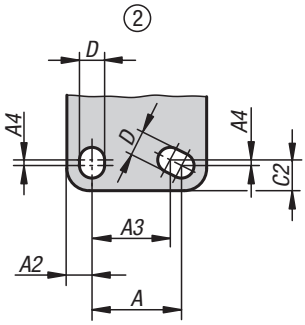
Toggle clamps vertical

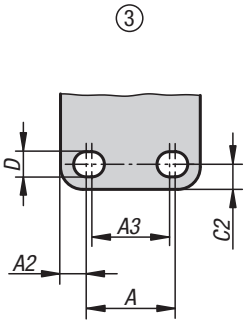
with straight foot and adjustable clamping spindle, stainless steel













Material:
Stainless steel.
Grip polyamide.

Version:
Bright.

Sample order:
K0663.105001

Note:
Maintenance-free high quality link bushings. Sustainable constant force during opening and closing. Optimum stability through the conical, U-profile clamping arm.

Accessories:
K0106
K0384
K0390
K0392
K0667

Drawing reference:
1) stop pin position 1
2) stop pin position 2

KIPP Toggle clamps vertical with straight foot and adjustable clamping spindle, stainless steel

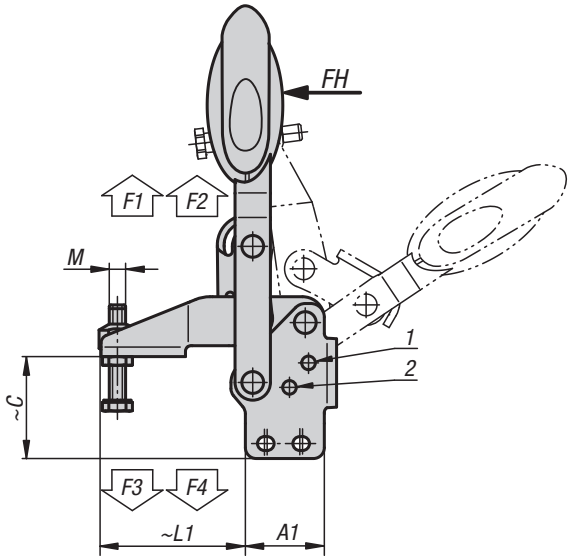
Order No.	Opening angle holding arm position 1	Opening angle holding arm position 2	Opening angle holding arm stop pin removed	Opening angle handle position 1	Opening angle handle position 2	Hand force FH N	Retaining force F1 N	Retaining force F2 N	Clamping force F3 N	Clamping force F4 N
K0663.105001	100°	-	129°	64°	-	100	750	1050	620	750
K0663.106001	56°	83°	141°	46°	56°	160	1350	1650	920	1050
K0663.108001	13°	93°	158°	26°	61°	190	2000	2800	940	1350

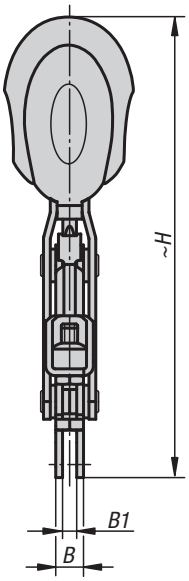
Order No.	hole arrangement	M	A	A1	A2	A3	A4	B	B1	B2	B3	B6	C	C2	D	H	L	L1
K0663.105001	2	M5x25	16	25	4,5	14	1	8,1	4,1	13,2	9,2	22,5	29,8	5,5	4,5	119,2	65,6	35
K0663.106001	3	M6x35	14	29	7	12	-	10,2	5,2	17,5	12,5	43,5	37,6	5,5	5,5	169	86,5	53
K0663.108001	3	M8x45	21	39	9	19	-	10,2	5,2	20,6	15,6	41,5	49	6,5	6,8	200,4	107	62

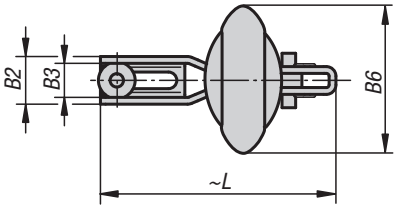
Toggle clamps vertical with safety interlock

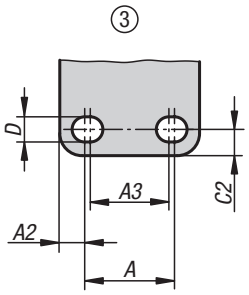
with straight foot and adjustable clamping spindle, stainless steel











Material:
Stainless steel.
Grip polyamide.
Unlocking bracket TPE.

Version:
Bright.

Sample order:
K0663.106101

Note:
Maintenance-free high quality link bushings. Sustainable constant force during opening and closing. Optimum stability through the conical, U-profile clamping arm. Including internal bar lock with automatic safety catch.

Accessories:
K0106
K0384
K0390
K0392
K0667

Drawing reference:
1) stop pin position 1
2) stop pin position 2

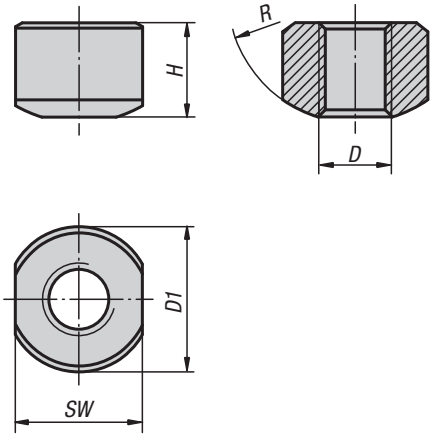
KIPP Toggle clamps vertical with safety interlock with straight foot and adjustable clamping spindle, stainless steel

Order No.	Opening angle holding arm position 1	Opening angle holding arm position 2	Opening angle holding arm stop pin removed	Opening angle handle position 1	Opening angle handle position 2	Hand force FH N	Retaining force F1 N	Retaining force F2 N	Clamping force F3 N	Clamping force F4 N
K0663.106101	56°	83°	141°	46°	56°	160	1350	1650	920	1050
K0663.108101	13°	93°	158°	26°	61°	190	2000	2800	940	1350

Order No.	hole arrangement	M	A	A1	A2	A3	B	B1	B2	B3	B6	C	C2	D	H	L	L1
K0663.106101	3	M6x35	14	29	7	12	10,2	5,2	17,5	12,5	53,4	37,6	5,5	5,5	175,7	86,5	53
K0663.108101	3	M8x45	21	39	9	19	10,2	5,2	20,6	15,6	51,1	49	6,5	6,8	207,6	107	62

Spherical seating nuts



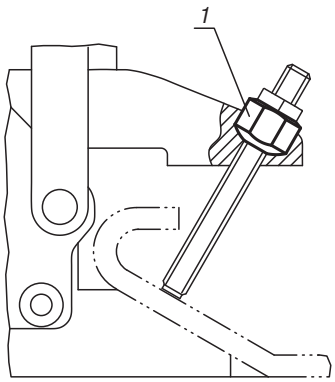


Material:
Steel or stainless steel

Version:
Steel black oxidised.
Stainless steel bright.

Sample order:
K0664.04

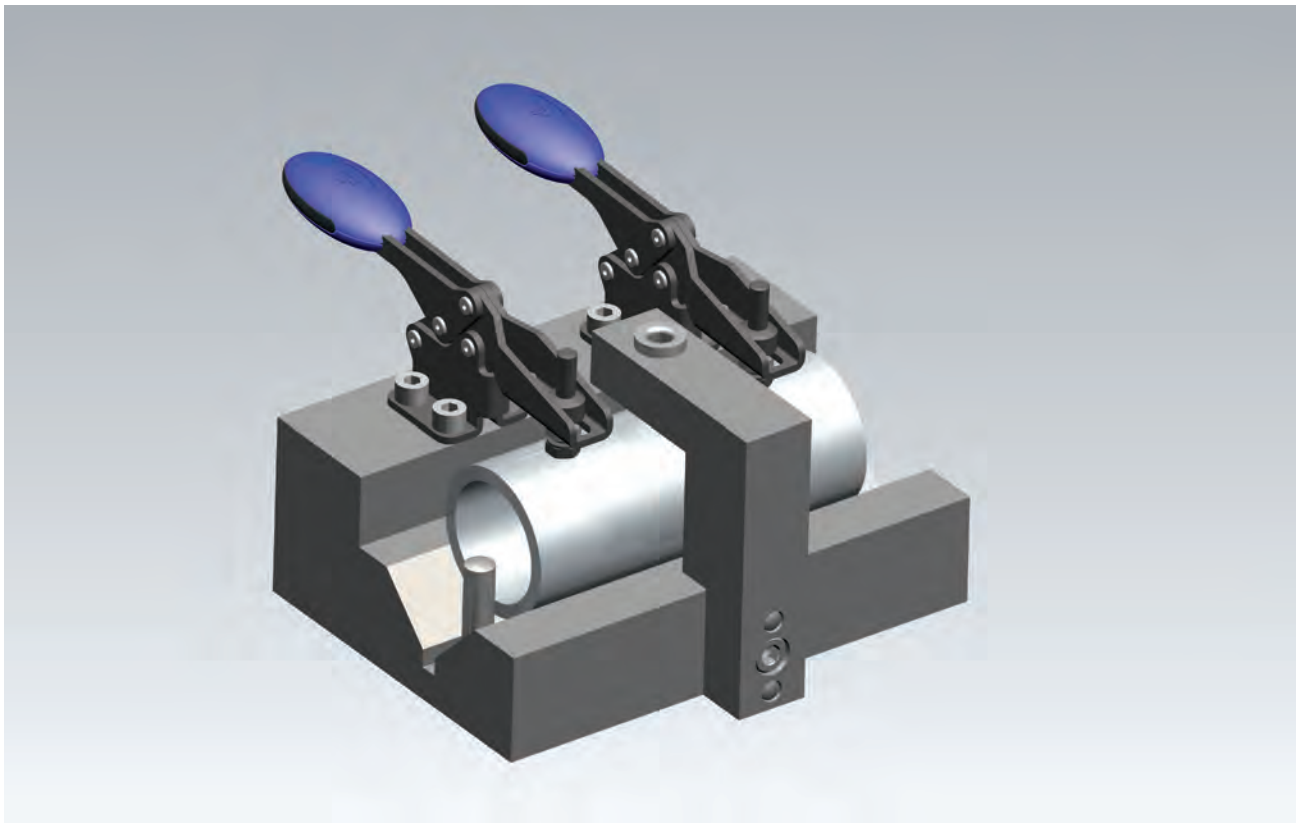
Drawing reference:
1) Weldable

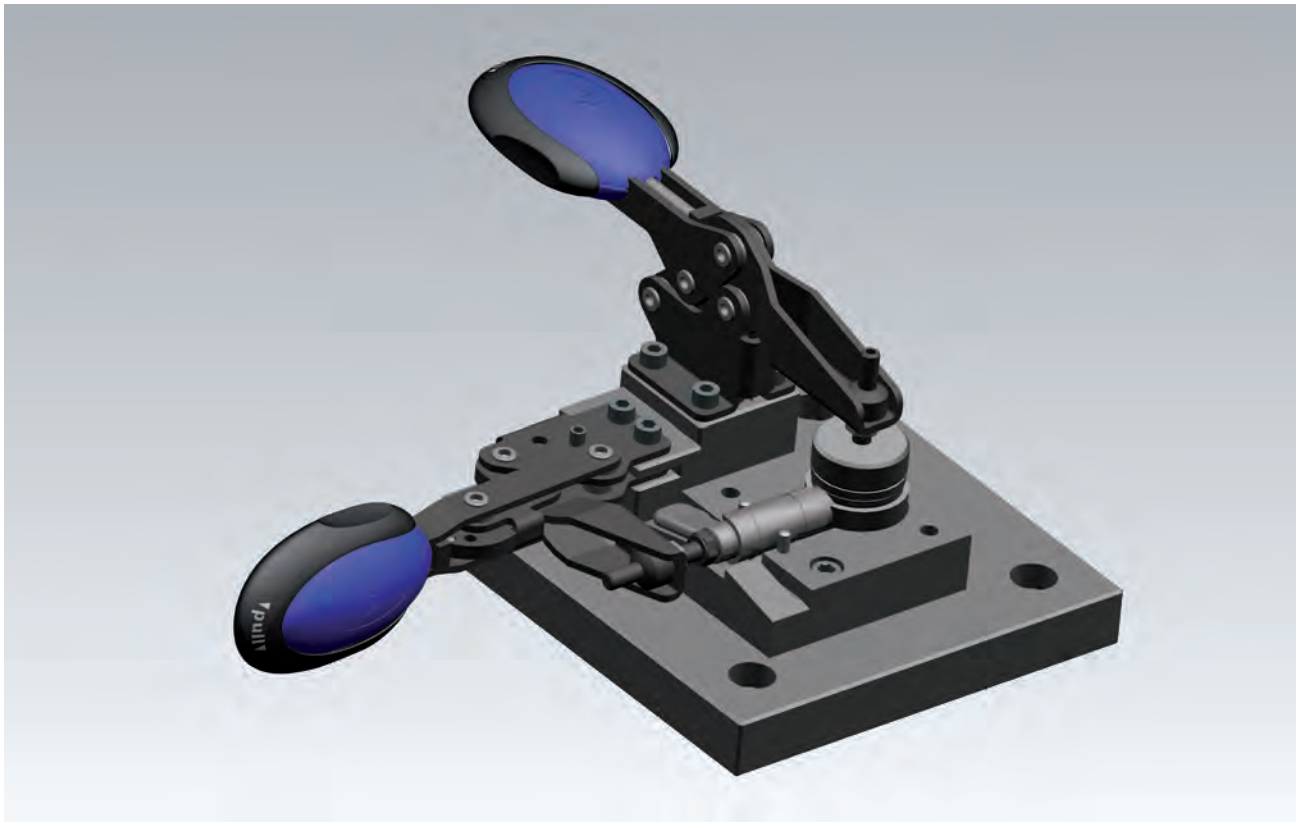


KIPP Spherical seating nuts

Order No. Steel	Order No. Stainless steel	D	H	D1	SW	R
K0664.04	**K0664.104**	M4	5,2	8	7	7
K0664.05	**K0664.105**	M5	6,7	10	9	9
K0664.06	**K0664.106**	M6	9,5	13,5	12,2	10
K0664.08	**K0664.108**	M8	12,8	18	15,3	12
K0664.10	-	M10	12,1	20	18,2	14
K0664.12	-	M12	14,8	23	20	16

Application example





Notes

Technical information

Fig. 1:

Clamp top dead centre.
Self-locking of the hinge prevents independent opening during the machining process.

Fig. 2:

Clamp in intermediate position.
The holding arm approaches dead centre of the toggle hinge very rapidly when closing the clamp (swivel angle of handle << swivel angle of holding arm).

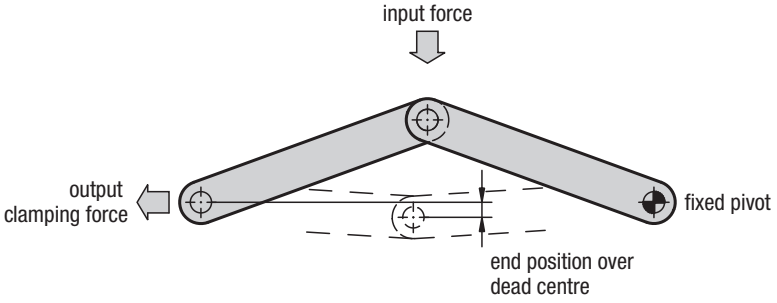
Fig. 3:

Clamp open.
The wide opening angle of the clamping arm allows easy loading and unloading.



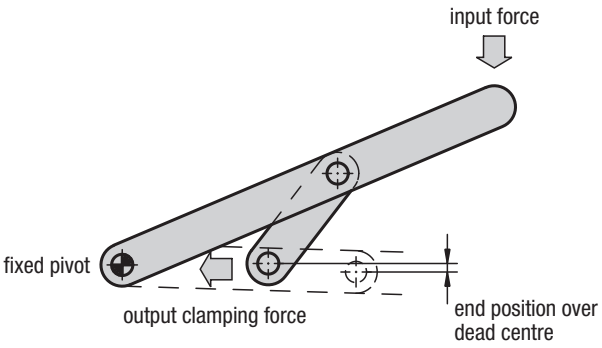
Fig. 1 Fig. 2 Fig. 3

Toggle clamps generate the maximum clamping force when the three pivots are in a straight line (dead centre position). A clamp is locked by moving one pivot beyond the dead centre position. The end position over dead centre is carefully chosen to retain the maximum clamping force while preventing inadvertent opening of the clamp due to vibration or varying loading.
The force-multiplying characteristics of the toggle hinge mechanism put in practice in straight line action clamps can be used to carry out work such as light punching, drilling, forming, bonding, jointing, riveting, welding and locking.



Retention force
The retention force is the force applied to the workpiece which the closed clamp can readily withstand without permanent distortion or loss of function.

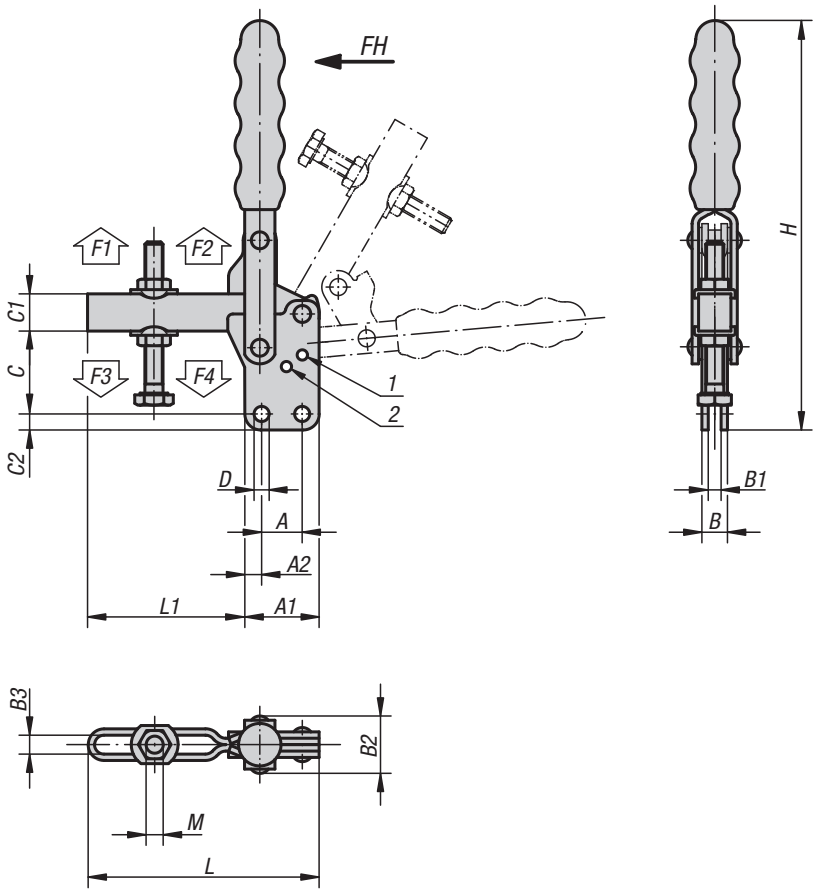
Clamping force
The clamping force is the force applied to the workpiece by the clamping arm when it is closed. The hand forces indicated in the catalogue can achieve the corresponding clamping forces.



Toggle clamps vertical

with straight foot and adjustable clamping spindle





Material:
Steel.

Version:
Galvanized and chromated,
clamping spindle and nuts phosphated,
plastic handle oil-resistant

Sample order:
K0055.0250

Note:
The opening angle between the holding arm and the handle can be reduced or increased by repositioning or removing the stop pin.

A neoprene pressure pad is supplied with versions K0055.0075 and K0055.0150.

Accessories:
K0100
K0101
K0102
K0103
K0106
K0107

Drawing reference:
1) stop pin position 1
2) stop pin position 2

KIPP Toggle clamps vertical with straight foot and adjustable clamping spindle

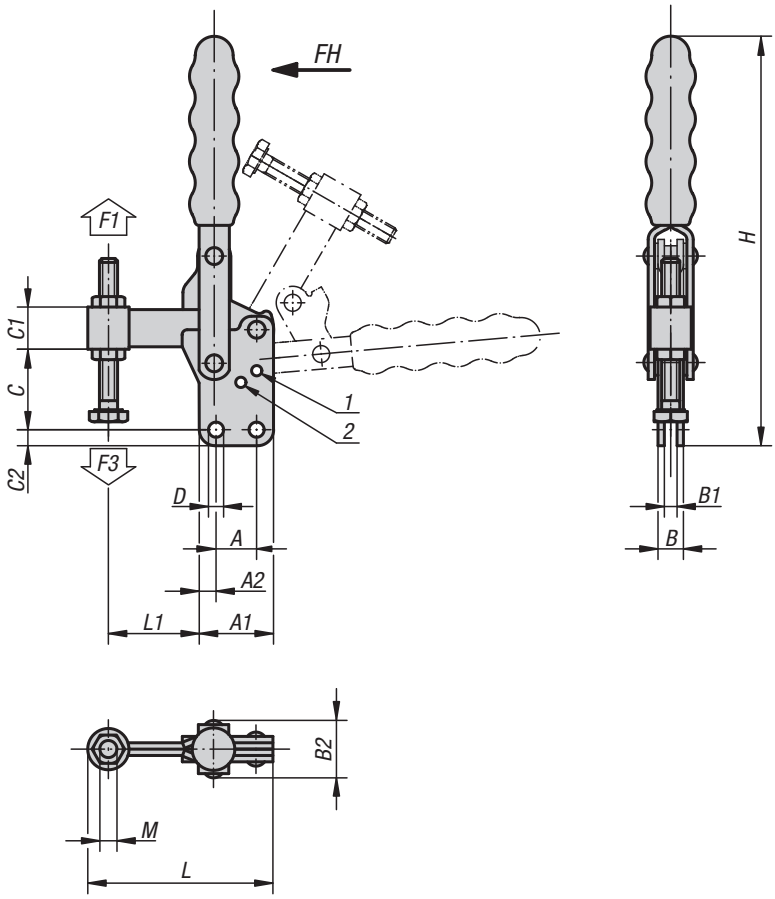
Order No.	Opening angle holding arm position 1	Opening angle holding arm position 2	Opening angle holding arm stop pin removed	Opening angle handle position 1	Opening angle handle position 2	Opening angle handle stop pin removed	Matching plastic grip
K0055.0075	130°	-	195°	90°	-	125°	K0100.16
K0055.0150	95°	-	185°	75°	-	110°	K0100.19
K0055.0250	95°	125°	160°	70°	85°	100°	K0100.28
K0055.0350	90°	120°	180°	70°	80°	110°	K0100.30
K0055.0450	90°	125°	180°	70°	85°	110°	K0100.34
K0055.0550	90°	120°	180°	65°	80°	110°	K0100.35

Order No.	A	A1	A2	B	B1	B2	B3	C	C1	C2	D	H	L	L1	M	Hand force FH N	Retaining force F1 N	Retaining force F2 N	Clamping force F3 N	Clamping force F4 N
K0055.0075	16	26	5	8	4	17	5,5	22	9	5	4,4	106	57	31	M5x35	80	700	1100	500	750
K0055.0150	12,7	27	7	12	6	24	6,4	28	11	5,4	5,1	135	70	43	M6x50	120	1350	1650	800	1050
K0055.0250	19	35	8	12	6	26	8,8	39	17,5	7	7,1	190	110	75	M8x60	190	1000	2800	900	1700
K0055.0350	32	50	9	16	8	33	10,6	54	22	9,6	8,3	245	145	95	M10x80	230	2200	4500	1400	3000
K0055.0450	32	53	10	20	10	42	13,5	59	25	8,7	8,7	246	177	124	M12x100	260	3200	7000	1400	3000
K0055.0550	51	76	12,5	20	10	41	16,5	102	32	12,7	12,3	345	230	154	M16x150	290	3000	8000	1800	3900

Toggle clamps vertical

with straight foot and fixed clamping spindle





Material:
Steel.

Version:
Galvanized and chromated,
clamping spindle and nuts phosphated,
plastic handle oil-resistant

Sample order:
K0056.0150

Note:
The opening angle between the holding arm and the handle can be reduced or increased by repositioning or removing the stop pin.

A neoprene pressure pad is supplied with version K0056.0150.

Accessories:
K0100
K0101
K0102
K0103
K0106

Drawing reference:
1) stop pin position 1
2) stop pin position 2

KIPP Toggle clamps vertical with straight foot and fixed clamping spindle

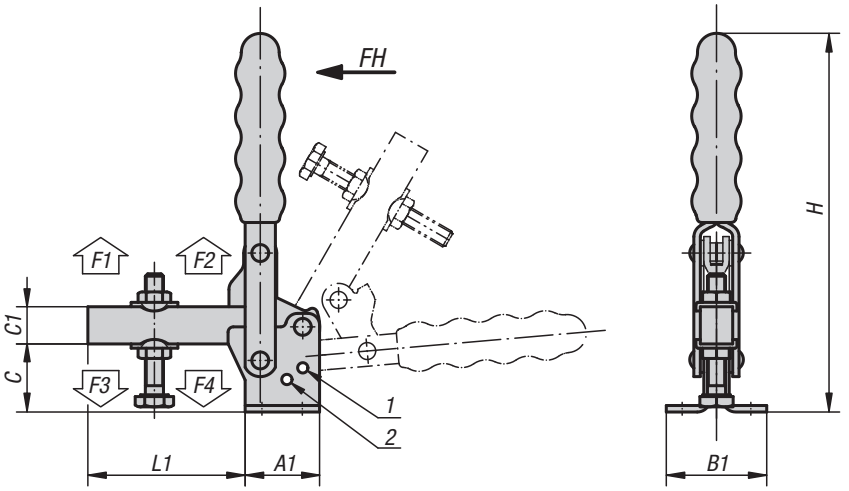
Order No.	Opening angle holding arm position 1	Opening angle holding arm position 2	Opening angle holding arm stop pin removed	Opening angle handle position 1	Opening angle handle position 2	Opening angle handle stop pin removed	Matching plastic grip
K0056.0150	95°	-	185°	75°	-	110°	K0100.19
K0056.0250	95°	125°	160°	70°	85°	100°	K0100.28
K0056.0350	90°	120°	180°	70°	80°	110°	K0100.30
K0056.0450	90°	125°	180°	70°	85°	110°	K0100.34
K0056.0550	90°	120°	180°	65°	80°	110°	K0100.35

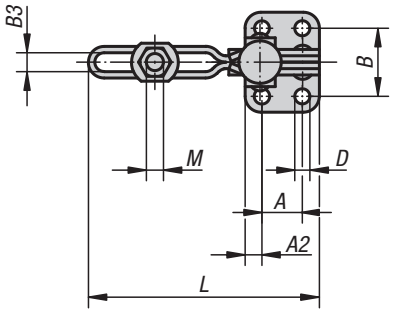
Order No.	A	A1	A2	B	B1	B2	C	C1	C2	D	H	L	L1	M	Hand force FH N	Retaining force F1 N	Clamping force F3 N
K0056.0150	12,7	27	7	12	6	24	28	11	5,4	5,1	135	60	26	M6x50	120	1500	900
K0056.0250	19	35	8	12	6	26	37	21,5	7	7,1	190	87	45	M8x60	190	2500	1150
K0056.0350	32	50	9	16	8	33	52	25,5	9,6	8,3	240	124	65	M10x80	230	3500	1650
K0056.0450	32	53	10	20	10	42	57	30	8,7	8,7	246	136	74	M12x100	260	4500	1650
K0056.0550	51	76	12,5	20	10	41	101	38	12,7	12,3	345	197	108	M16x150	290	5500	1900

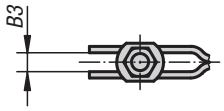
Toggle clamps vertical

with flat foot and adjustable clamping spindle

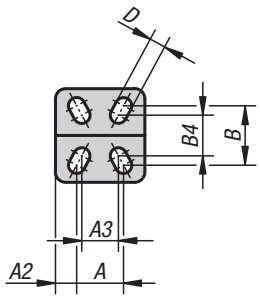




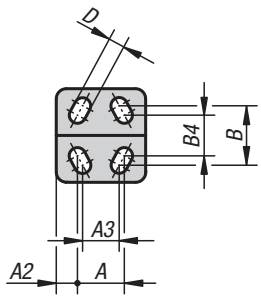




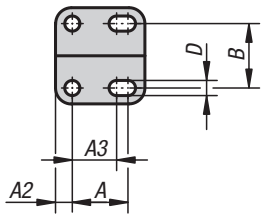
K0058.0100
K0058.0200
K0058.0300



K0058.0100



K0058.0200



K0058.0300

Material:
Steel or stainless steel

Version:
Galvanized and chromed.
Clamping spindle and nuts phosphated.
Stainless steel bright.
Plastic handle oil-resistant.

Sample order:
K0058.0250N

Note:
The opening angle between the holding arm and the handle can be reduced or increased by repositioning or removing the stop pin.

A neoprene pressure pad is supplied with versions K0058.0075, K0058.0100 and K0058.0150.

An angle bracket cannot be supplied in stainless steel with versions K0058.0075N, K0058.0150N and K0058.0250N.

Accessories:
K0098
K0100
K0101
K0102
K0103
K0106
K0107

Drawing reference:
1) stop pin position 1
2) stop pin position 2

Toggle clamps vertical

with flat foot and adjustable clamping spindle



Angle bracket for
front face mounting
(see accessories)

KIPP Toggle clamps vertical with flat foot and adjustable clamping spindle

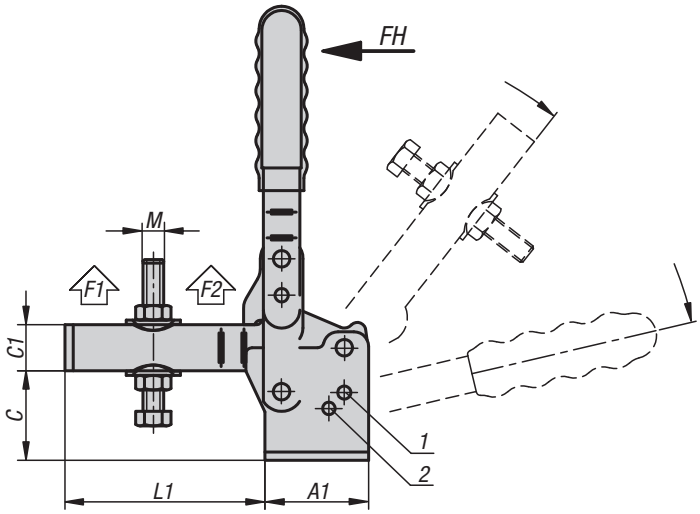
Order No.	Main material	Opening angle holding arm position 1	Opening angle holding arm position 2	Opening angle holding arm stop pin removed	Opening angle handle position 1	Opening angle handle position 2	Opening angle handle stop pin removed	Order No. Angle bracket	Matching plastic grip
K0058.0075	Steel	130°	-	160°	90°	-	100°	K0098.02	K0100.16
K0058.0100	Steel	95°	-	185°	65°	-	105°	-	K0100.16
K0058.0150	Steel	95°	-	185°	75°	-	110°	K0098.02	K0100.19
K0058.0200	Steel	105°	-	175°	70°	-	95°	-	K0100.22
K0058.0250	Steel	95°	125°	160°	70°	85°	100°	K0098.04	K0100.28
K0058.0300	Steel	105°	-	160°	65°	-	90°	-	K0100.28
K0058.0350	Steel	90°	120°	180°	70°	80°	110°	K0098.06	K0100.30
K0058.0450	Steel	90°	125°	180°	70°	85°	110°	K0098.06	K0100.34
K0058.0550	Steel	90°	120°	180°	65°	80°	110°	-	K0100.35
K0058.0075N	Stainless steel	130°	-	160°	90°	-	100°	-	K0100.16
K0058.0150N	Stainless steel	95°	-	185°	75°	-	110°	-	K0100.19
K0058.0250N	Stainless steel	95°	125°	160°	70°	85°	100°	-	K0100.28

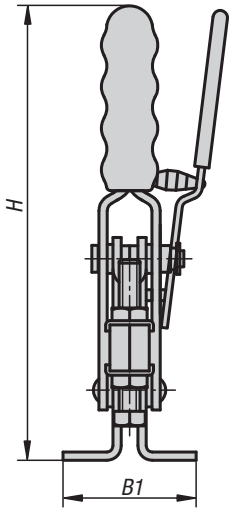
Order No.	Main material	A	A1	A2	A3	B	B1	B3	B4	C	C1	D	H	L	L1	M	Hand force FH N	Retaining force F1 N	Retaining force F2 N	Clamping force F3 N	Clamping force F4 N
K0058.0075	Steel	16	25	5	-	24	34	5,5	-	16	9	4,4	94	57	32	M5x35	80	700	1100	500	750
K0058.0100	Steel	16	29	6	14	24	34	5,5	17,5	22	9,5	4,8	98	67	38	M5x35	80	700	1000	500	800
K0058.0150	Steel	12,7	27	7	-	27	38	6,4	-	23	11	5,1	121	70	43	M6x50	120	1350	1650	800	1050
K0058.0200	Steel	19	35	8	12,7	27	42	6,3	25	30	12,7	5,5	135	79	44	M6x50	100	1000	2200	950	1350
K0058.0250	Steel	19	35	8	-	32	45	8,8	-	32	17,5	7,1	175	110	75	M8x60	190	1000	2800	900	1700
K0058.0300	Steel	25	43	9	19	34,5	53	8,8	-	34	19	8	186	143	100	M8x60	130	2000	3700	900	1850
K0058.0350	Steel	32	50	9	-	45	64	10,6	-	43	22	8,3	220	145	95	M10x80	230	2200	4500	1400	3000
K0058.0450	Steel	32	53	10	-	45	64	12,7	-	51	25	8,7	228	177	124	M12x100	260	3200	7000	1400	3000
K0058.0550	Steel	51	76	12,5	-	70	95	16,5	-	84	32	12,3	312	232	156	M16x150	290	3000	8000	1800	3900
K0058.0075N	Stainless steel	16	25	5	-	24	34	5,5	-	16	9	4,4	94	57	32	M5x35	80	700	1100	500	750
K0058.0150N	Stainless steel	12,7	27	7	-	27	38	6,4	-	23	11	5,1	121	70	43	M6x50	120	1350	1650	800	1050
K0058.0250N	Stainless steel	19	35	8	-	32	45	8,8	-	32	17,5	7,1	175	110	75	M8x60	190	1000	2800	900	1700

Toggle clamps vertical with safety interlock

with flat foot and adjustable clamping spindle







Material:
Steel.

Version:
galvanized and chromed
plastic handle oil-resistant.

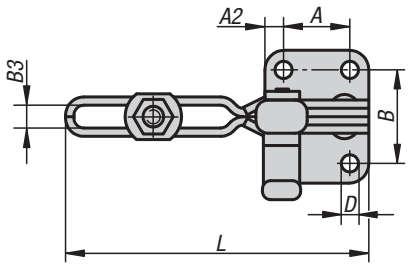
Sample order:
K0059.0250

Note:
With safety interlock for the clamping point and opened position. Safety clamping element with finger protection. Anti-loosening lock for the press-on bolt on the end of the clamping arm.
The opening angle between the holding arm and the handle can be reduced by pressing in of the stop pin (stop position 2).

Clamping spindle with a neoprene pressure pad.

Accessories:
K0098
K0100
K0101
K0102
K0103
K0106
K0107

Drawing reference:
1) stop pin position 1
2) stop pin position 2





Angle bracket for
front face mounting
(see accessories)

KIPP Toggle clamps vertical with safety interlock with flat foot and adjustable clamping spindle

Order No.	Opening angle holding arm position 1	Opening angle holding arm position 2	Opening angle handle position 1	Opening angle handle position 2	Order No. Angle bracket
K0059.0250	95°	125°	70°	85°	K0098.04
K0059.0350	90°	120°	70°	80°	K0098.06

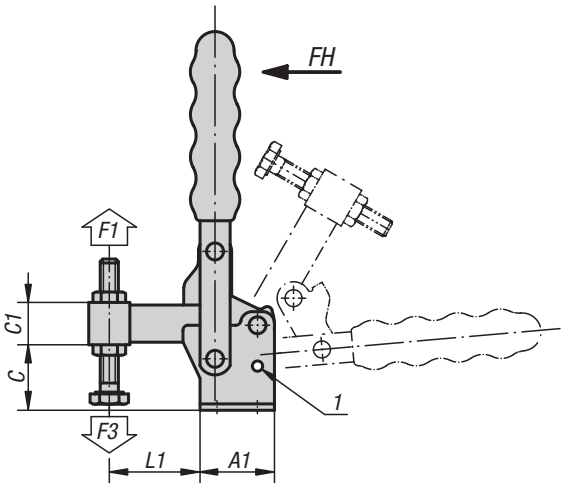
Order No.	A	A1	A2	B	B1	B3	C	C1	D	H	L	L1	M	Hand force FH N	Retaining force F1 N	Retaining force F2 N
K0059.0250	19	35	8	32	45	8,8	32	17,5	7,1	175	110	75	M8x60	190	1000	2800
K0059.0350	32	50	9	45	64	10,6	43	22	8,3	220	146	95	M10x80	230	2200	4500

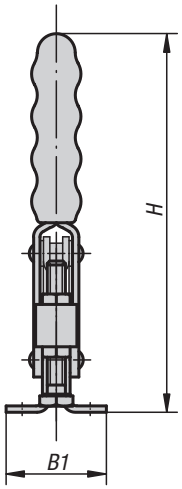
Notes

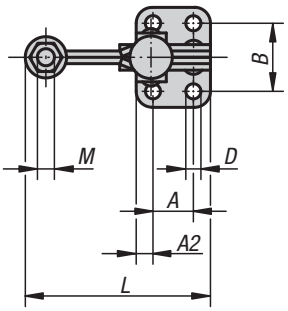
Toggle clamps vertical

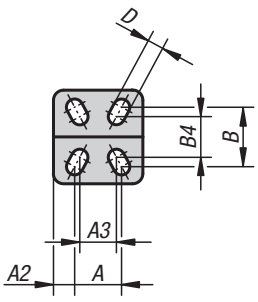
with flat foot and fixed clamping spindle



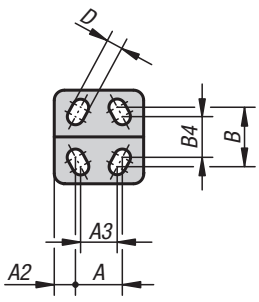




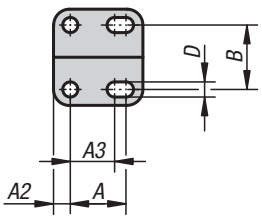




K0060.0100



K0060.0200



K0060.0300

Material:
Steel.

Version:
Galvanized and chromated, clamping spindle and nuts phosphated, plastic handle oil-resistant

Sample order:
K0060.0250

Note:
The opening angle between the holding arm and the handle can be reduced or increased by repositioning or removing the stop pin.

A neoprene pressure pad is supplied with version K0060.0100 and K0060.0150.

Accessories:
K0098
K0100
K0101
K0102
K0103
K0106

Drawing reference:
1) Position 1

Toggle clamps vertical

with flat foot and fixed clamping spindle



Angle bracket for
front face mounting
(see accessories)

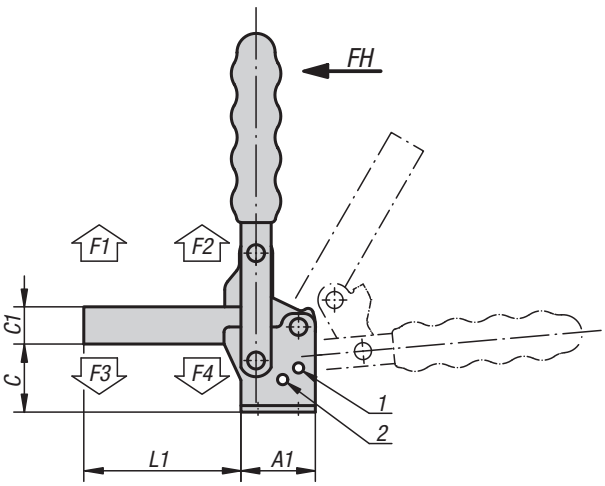
KIPP Toggle clamps vertical with flat foot and fixed clamping spindle

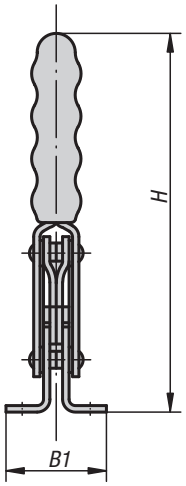
Order No.	Opening angle holding arm position 1	Opening angle holding arm stop pin removed	Opening angle handle position 1	Opening angle handle stop pin removed	Hand force FH N	Retaining force F1 N	Clamping force F3 N	Matching plastic grip
K0060.0100	95°	185°	65°	105°	80	850	650	K0100.16
K0060.0150	95°	185°	75°	110°	120	1500	900	K0100.19
K0060.0200	105°	175°	70°	95°	100	1600	1150	K0100.22
K0060.0250	95°	160°	70°	100°	190	2500	1150	K0100.28
K0060.0300	105°	160°	65°	90°	130	3000	1150	K0100.28
K0060.0350	90°	180°	70°	110°	230	3500	1650	K0100.30
K0060.0450	90°	180°	70°	110°	260	4500	1650	K0100.34
K0060.0550	90°	180°	65°	110°	290	5500	1900	K0100.35

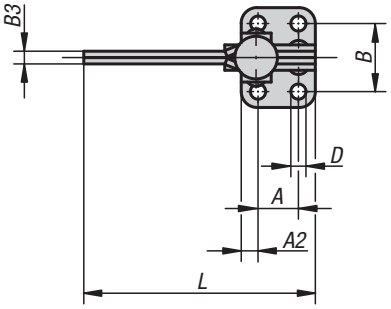
Order No.	A	A1	A2	A3	B	B1	B4	C	C1	D	H	L	L1	M	Order No. Angle bracket
K0060.0100	16	28	6	14	24	34	17,5	22	9,5	4,8	103	65	32	M5x35	-
K0060.0150	12,7	27	7	-	27	38	-	23	11	5,1	125	60	26	M6x50	K0098.02
K0060.0200	19	35	8	12,7	27	42	25	29	12,7	5,5	135	77	37	M6x50	-
K0060.0250	19	35	8	-	32	47	-	29	21,5	7,1	175	87	45	M8x60	K0098.04
K0060.0300	25	43	9	19	34,5	52	-	32	21,5	8	186	115	65	M8x60	-
K0060.0350	32	50	9	-	45	64	-	40	25,5	8,3	220	123	65	M10x80	K0098.06
K0060.0450	32	53	10	-	45	64	-	47	30	8,7	228	136,5	74	M12x100	K0098.06
K0060.0550	51	76	12,5	-	70	95	-	81	38	12,3	312	196,5	108	M16x150	-

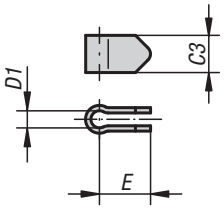
Toggle clamps vertical

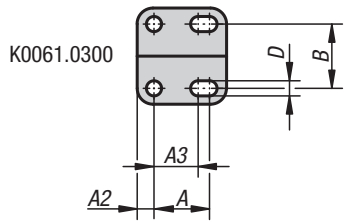
with flat foot and full holding arm













Material:
Steel.

Version:
Galvanized and chromated, plastic handle oil-resistant

Sample order:
K0061.0550

Note:
The opening angle between the holding arm and the handle can be reduced or increased by repositioning or removing the stop pin.
Spindle bracket is weldable.

Accessories:
K0098
K0100
K0101
K0102
K0103
K0106

Drawing reference:
1) stop pin position 1
2) stop pin position 2



Angle bracket for front face mounting (see accessories)

KIPP Toggle clamps vertical with flat foot and full holding arm

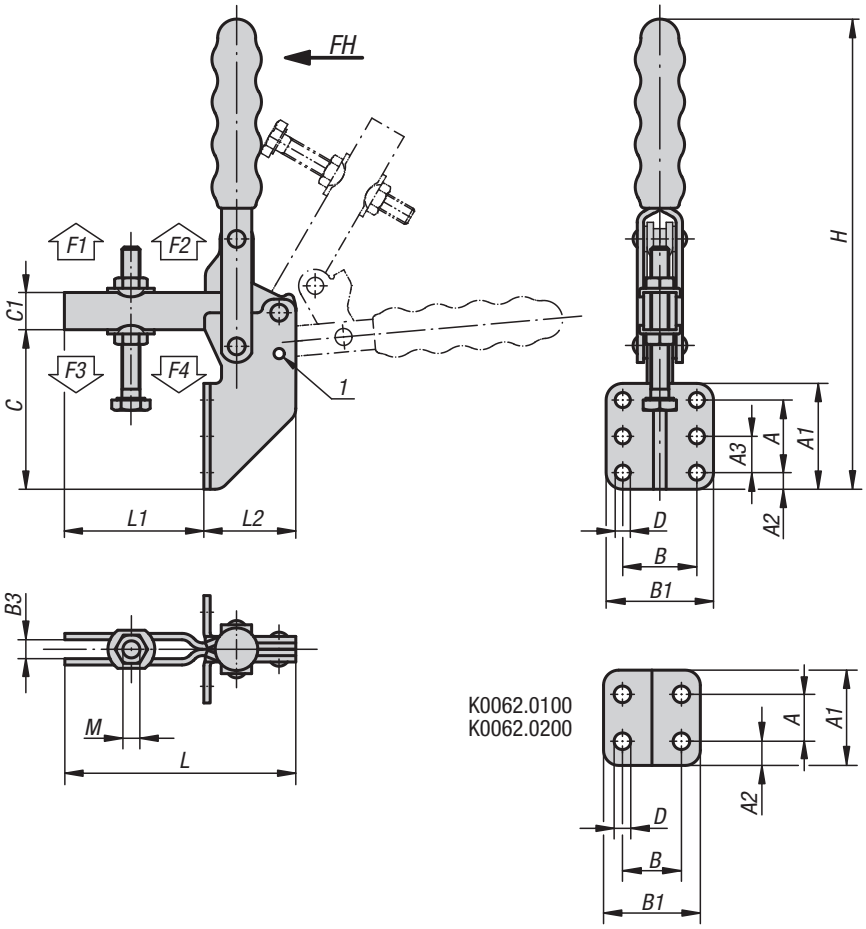
Order No.	Opening angle holding arm position 1	Opening angle holding arm position 2	Opening angle holding arm stop pin removed	Opening angle handle position 1	Opening angle handle position 2	Opening angle handle stop pin removed	Order No. Angle bracket	Matching plastic grip
K0061.0250	95°	125°	160°	70°	85°	100°	K0098.04	K0100.28
K0061.0300	105°	-	160°	65°	-	90°	-	K0100.28
K0061.0350	90°	120°	180°	70°	80°	110°	K0098.06	K0100.30
K0061.0450	90°	125°	180°	70°	85°	110°	K0098.06	K0100.34
K0061.0550	90°	120°	180°	65°	80°	110°	-	K0100.35

Order No.	A	A1	A2	A3	B	B1	B3	C	C1	C3	D	D1	E	H	L	L1	Clamping spindle	Hand force FH N	Retaining force F1 N	Retaining force F2 N	Clamping force F3 N	Clamping force F4 N
K0061.0250	19	35	8	-	32	47	6	31	17,5	17,5	7,1	8,3	24	175	112	77	M8x60	190	1000	2800	900	1700
K0061.0300	25	43	9	19	34,5	52	6	34	19	17,5	8	8,3	24	186	143	100	M8x60	130	2000	3700	900	1850
K0061.0350	32	50	9	-	45	64	8	42	22	22	8,3	10,3	30	220	149	99	M10x80	230	2200	4500	1400	3000
K0061.0450	32	53	10	-	45	64	10	51	25	26	8,7	12,3	32	228	180	127	M12x100	260	3200	7000	1400	3000
K0061.0550	51	76	12,5	-	70	95	10	84	32	32	12,3	16,3	35	312	236	160	M16x150	290	3000	8000	1800	3900

Toggle clamps vertical

with angled foot and adjustable clamping spindle





Material:
Steel.

Version:
Galvanized and chromated,
clamping spindle and nuts phosphated,
plastic handle oil-resistant

Sample order:
K0062.0200

Note:
The opening angle between the holding arm and the handle can be reduced or increased by repositioning or removing the stop pin.

A neoprene pressure pad is supplied with version K0062.0100.

Accessories:
K0100
K0101
K0102
K0103
K0106
K0107

Drawing reference:
1) Position 1

KIPP Toggle clamps vertical with angled foot and adjustable clamping spindle

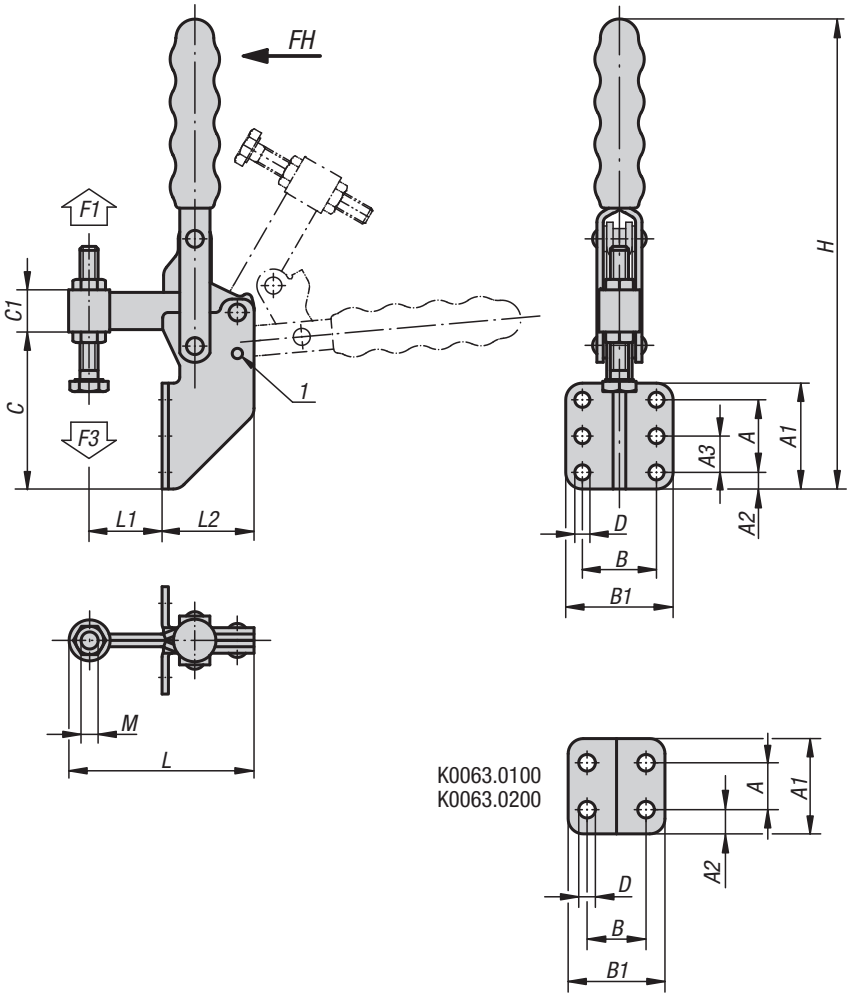
Order No.	Opening angle holding arm position 1	Opening angle holding arm stop pin removed	Opening angle handle position 1	Opening angle handle stop pin removed	Matching plastic grip
K0062.0100	80°	190°	60°	100°	K0100.16
K0062.0200	105°	175°	70°	95°	K0100.22
K0062.0300	105°	160°	65°	90°	K0100.28

Order No.	A	A1	A2	A3	B	B1	B3	C	C1	D	H	L	L1	L2	M	Hand force FH N	Retaining force F1 N	Retaining force F2 N	Clamping force F3 N	Clamping force F4 N
K0062.0100	14	29	7,5	-	17,5	28	5,5	44	9,5	4,8	122	67	31	36	M5x35	80	700	1000	500	800
K0062.0200	19	35	8	-	26	42	6,3	64	12,7	5,5	170	79	35	44	M6x50	100	1000	2200	950	1350
K0062.0300	35	51	8	16	35	51	8,8	82	19	6,8	235	143	92	51	M8x60	130	2000	3700	900	1850

Toggle clamps vertical

with angled foot and fixed clamping spindle





Material:
Steel.

Version:
Galvanized and chromated,
clamping spindle and nuts phosphated,
plastic handle oil-resistant

Sample order:
K0063.0100

Note:
The opening angle between the arm and the grip can be reduced or increased by repositioning or removing the stop pin.

A neoprene thrust pad is supplied with version K0063.0100 and K0063.0200

Accessories:
K0100
K0101
K0102
K0103
K0106

Drawing reference:
1) Position 1

KIPP Toggle clamps vertical with angled foot and fixed clamping spindle

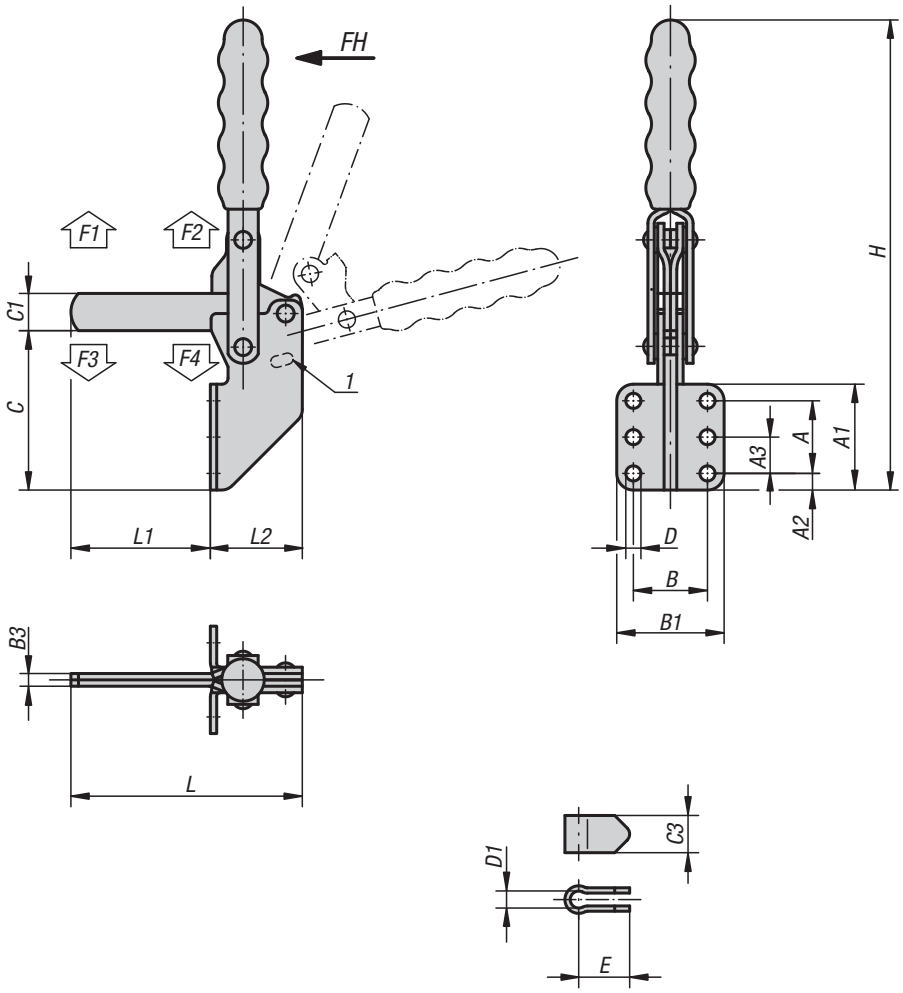
Order No.	Opening angle holding arm position 1	Opening angle holding arm stop pin removed	Opening angle handle position 1	Opening angle handle stop pin removed	Matching plastic grip
K0063.0100	80°	190°	60°	100°	K0100.16
K0063.0200	105°	175°	70°	95°	K0100.22
K0063.0300	105°	160°	65°	90°	K0100.28

Order No.	A	A1	A2	A3	B	B1	C	C1	D	H	L	L1	L2	M	Hand force FH N	Retaining force F1 N	Clamping force F3 N
K0063.0100	14	29	7	-	17,5	28	44	9,5	4,8	122	66	24,5	36	M5x35	80	850	650
K0063.0200	19	35	8	-	25	41	64	12,7	5,5	170	77	27	44	M6x50	100	1600	1150
K0063.0300	35	51	8	16	35	51	81	21,5	6,8	235	116	58	51	M8x60	130	3000	1150

Toggle clamps vertical

with angled foot and full holding arm





Material:
Steel.

Version:
Galvanized and chromated, plastic handle oil-resistant

Sample order:
K0064.0300

Note:
The opening angle between the holding arm and the handle can be reduced or increased by repositioning or removing the stop pin.
Spindle bracket is weldable.

Accessories:
K0100
K0101
K0102
K0103
K0106

Drawing reference:
1) Position 1

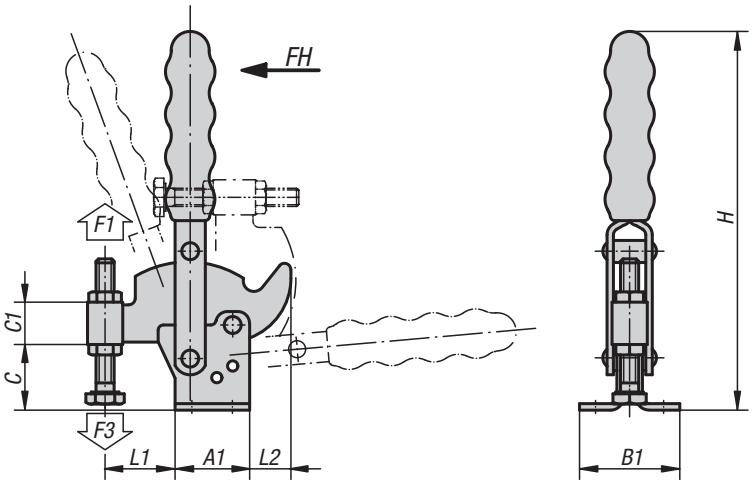
KIPP Toggle clamps vertical with angled foot and full holding arm

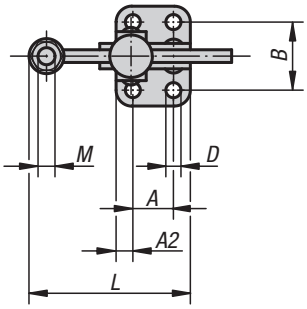
Order No.	Opening angle holding arm position 1	Opening angle holding arm stop pin removed	Opening angle handle position 1	Opening angle handle stop pin removed	Matching plastic grip
K0064.0300	105°	160°	65°	90°	K0100.28

Order No.	A	A1	A2	A3	B	B1	B3	C	C1	C3	D	D1	E	H	L	L1	L2	Clamping spindle	Hand force FH N	Retaining force F1 N	Retaining force F2 N	Clamping force F3 N	Clamping force F4 N
K0064.0300	35	51	8	16	35	51	6	82	19	17,5	6,8	8,3	24	235	143	92	51	M8x60	130	2000	3700	900	1850

Toggle clamps vertical cam

with flat foot







Material:
Steel.

Version:
Galvanized and chromated,
clamping spindle and nuts phosphated,
plastic handle oil-resistant

Sample order:
K0065.0075

Note:
Cam clamps are ideal for clamping workpieces with a relatively large tolerance such as casting blanks or nonferrous metals.

Accessories:
K0098
K0100
K0101
K0102
K0103
K0106



Angle bracket for front face mounting (see accessories)

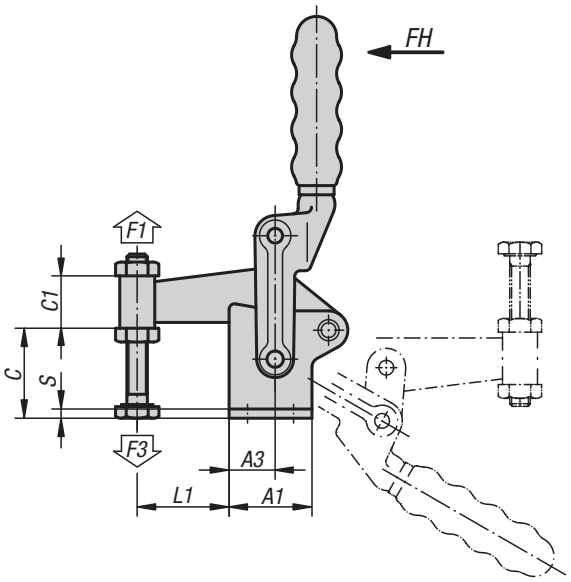
KIPP Toggle clamps vertical cam with flat foot

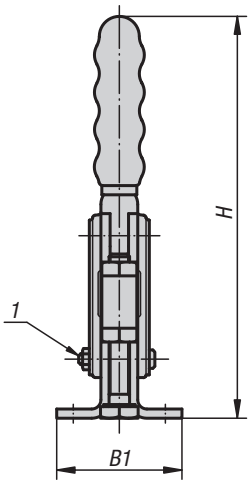
Order No.	Opening angle of holding arm	Opening angle of handle	Hand force FH N	Retaining force F1 N	Clamping force F3 N	Matching plastic grip
K0065.0075	90°	80°	190	750	350 - 600	K0100.16
K0065.0250	85°	80°	190	2500	850 - 1200	K0100.28
K0065.0350	90°	80°	230	3500	950 - 1400	K0100.30

Order No.	A	A1	A2	B	B1	C	C1	D	H	L	L1	L2	M	Order No. Angle bracket
K0065.0075	16	26	5	24	34	16	9,5	4,4	93	52	22	7	M5x35	K0098.02
K0065.0250	19	35	8	32	47	30	21,5	7,1	176	74	32	20	M8x60	K0098.04
K0065.0350	32	50	9	45	64	42	25,5	8,3	220	116	59	13	M10x80	K0098.06

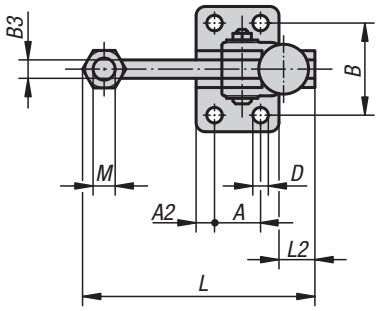
Toggle clamps vertical

heavy-duty with fixed clamping spindle









Material:
Steel.

Version:
Black oxidised. Thrust spindle and nuts phosphated.
Hinge pins and hinge bushes case-hardened.
Plastic grip oil-resistant.

Sample order:
K0066.2400

Note:
Oil all joints regularly.

Accessories:
K0099
K0102
K0103
K0106

Drawing reference:
1) adjustable clamp arm guide

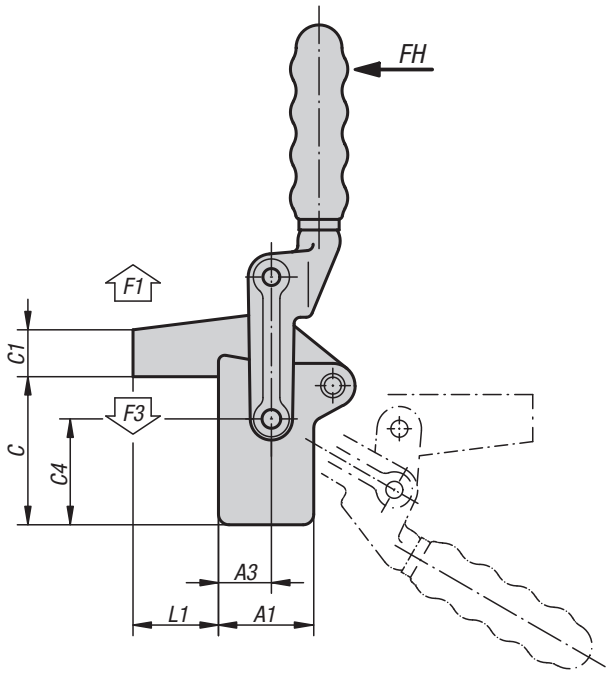
KIPP Toggle clamps vertical heavy-duty with fixed clamping spindle

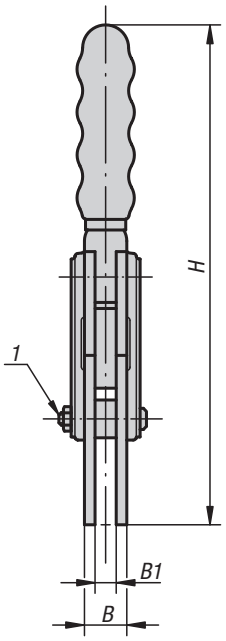
Order No.	Opening angle of holding arm	Opening angle of handle	Hand force FH N	Retaining force F1 N	Clamping force F3 N	Matching plastic grip
K0066.0700	180°	120°	340	6000	1400	K0099.28
K0066.1200	180°	125°	500	8000	1400	K0099.30
K0066.2400	195°	130°	500	15000	1850	K0099.33

Order No.	A	A1	A2	A3	B	B1	B3	C	C1	D	H	L	L1	L2	M	S
K0066.0700	25	45	10	25	50	68	10	45	30	8,3	215	124	50	20	M12x100	5
K0066.1200	30	51	10	25	60	86,5	12	58	30	8,3	250	144	60	23	M12x100	6
K0066.2400	40	64	12	40	75	103	16	70	38	10,3	295	188	75	37	M16x150	8

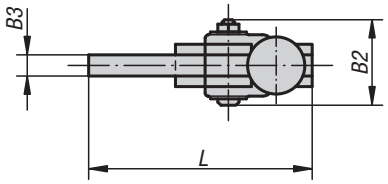
Toggle clamps vertical

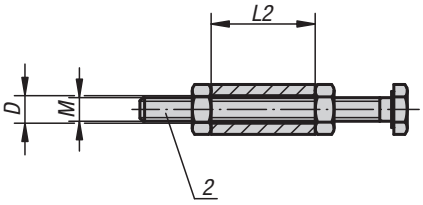
heavy-duty with full holding arm











Material:
Steel.

Version:
Black oxidised.
Hinge pins and hinge bushes case-hardened.
Plastic grip oil-resistant.

Sample order:
K0067.1200

Note:
Oil all joints regularly.

Accessories:
K0099
K0102
K0103
K0106

Drawing reference:
1) adjustable clamp arm guide
2) bush with hex head bolt and nuts

KIPP Toggle clamps vertical heavy-duty with full holding arm

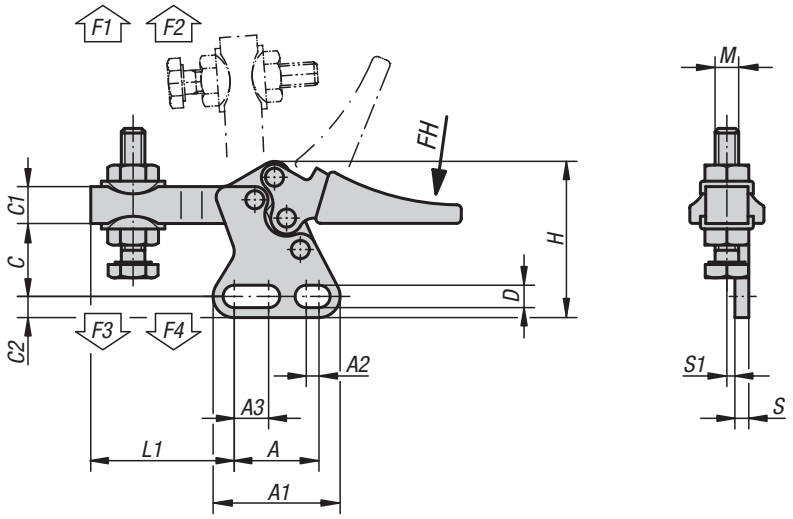
Order No.	Opening angle of holding arm	Opening angle of handle	Hand force FH N	Retaining force F1 N	Clamping force F3 N	Matching plastic grip
K0067.0700	205°	130°	340	7000	1400	K0099.28
K0067.1200	195°	130°	500	12000	1400	K0099.30
K0067.2400	195°	130°	500	15000	1850	K0099.33

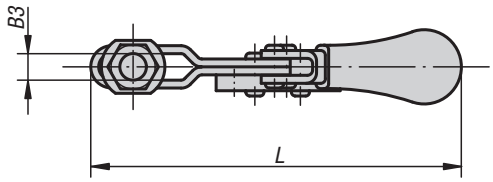
Order No.	A1	A3	B	B1	B2	B3	C	C1	C4	D	H	L	L1	L2	M
K0067.0700	45	25	20	10	43	10	70	22	50	12,2	235	104	40	30	M12x100
K0067.1200	51	26	24	12	51	12	88	26	63	12,2	276	124	50	30	M12x100
K0067.2400	64	40	32	16	64	16	105	32	76	16,3	318	162	60	38	M16x150

Toggle clamps mini horizontal

with straight foot and adjustable clamping spindle







Material:
Steel.

Version:
Galvanized and chromated,
clamping spindle and nuts phosphated,
plastic handle oil-resistant

Sample order:
K0068.0050

Accessories:
K0101
K0102
K0103
K0106
K0107

KIPP Toggle clamps mini horizontal with straight foot and adjustable clamping spindle

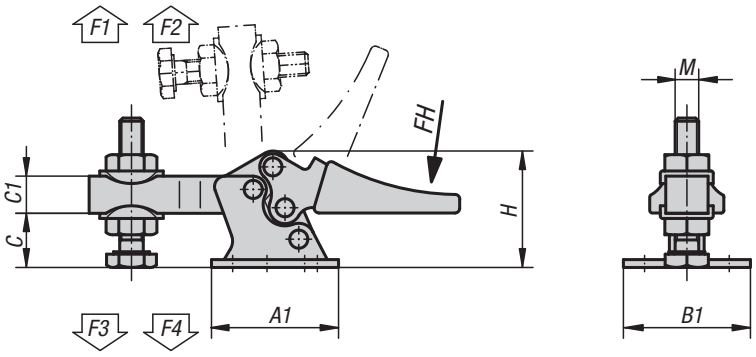
Order No.	Opening angle of holding arm	Opening angle of handle	Hand force FH N	Retaining force F1 N	Retaining force F2 N	Clamping force F3 N	Clamping force F4 N
K0068.0050	85°	65°	80	250	550	170	370

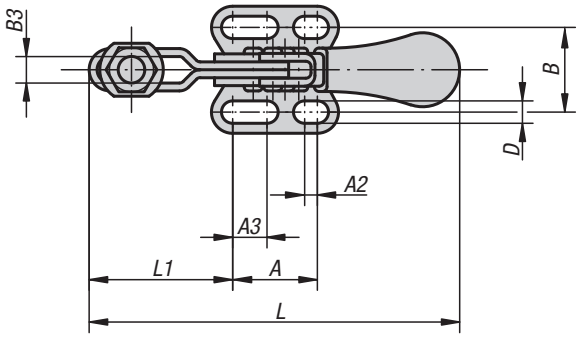
Order No.	A	A1	A2	A3	B3	C	C1	C2	D	H	L	L1	M	S	S1
K0068.0050	16	24,5	2,4	6,5	5,2	14	7	4	4,2	29	70	27	M5x20	3,2	1,5

Toggle clamps mini horizontal

with flat foot and adjustable clamping spindle







Material:
Steel or stainless steel

Version:
Galvanized and chromed.
Clamping spindle and nuts phosphated.
Stainless steel bright.
Plastic handle oil-resistant.

Sample order:
K0069.0050

Accessories:
K0101
K0102
K0103
K0106
K0107

KIPP Toggle clamps mini horizontal with flat foot and adjustable clamping spindle

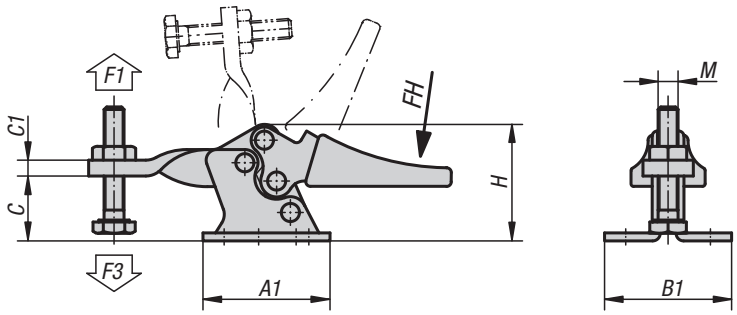
Order No.	Main material	Opening angle of holding arm	Opening angle of handle	Hand force FH N	Retaining force F1 N	Retaining force F2 N	Clamping force F3 N	Clamping force F4 N
K0069.0050	Steel	85°	65°	80	250	550	170	370
K0069.0050N	Stainless steel	85°	65°	80	250	550	170	370

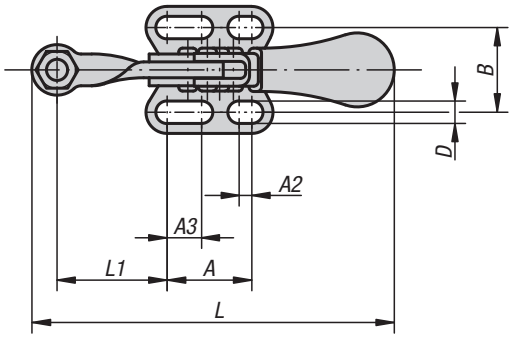
Order No.	Main material	A	A1	A2	A3	B	B1	B3	C	C1	D	H	L	L1	M
K0069.0050	Steel	16	24	2,4	6,5	16	24	5,2	9	7	4,2	22	70	27	M5x20
K0069.0050N	Stainless steel	16	24	2,4	6,5	16	24	5,2	9	7	4,2	22	70	27	M5x20

Toggle clamps mini horizontal

with flat foot and fixed clamping spindle







Material:
Steel.

Version:
Galvanized and chromated,
clamping spindle and nuts phosphated,
plastic handle oil-resistant

Sample order:
K0070.0050

Accessories:
K0101
K0102
K0103
K0106

KIPP Toggle clamps mini horizontal with flat foot and fixed clamping spindle

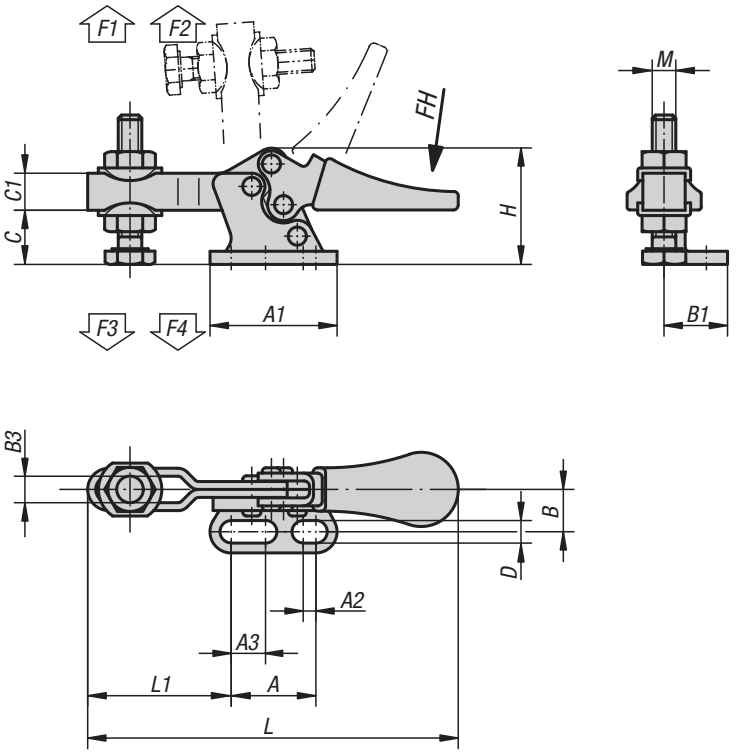
Order No.	Opening angle of holding arm	Opening angle of handle	Hand force FH N	Retaining force F1 N	Clamping force F3 N
K0070.0050	85°	65°	80	500	250

Order No.	A	A1	A2	A3	B	B1	C	C1	D	H	L	L1	M
K0070.0050	16	24	2,4	6,5	16	24	11	3	4,2	22	70	21	M5x20

Toggle clamps mini horizontal

with flat left foot and adjustable clamping spindle





Material:
Steel.

Version:
Galvanized and chromated,
clamping spindle and nuts phosphated,
plastic handle oil-resistant

Sample order:
K0071.0050

Accessories:
K0101
K0102
K0103
K0106
K0107

KIPP Toggle clamps mini horizontal with flat left foot and adjustable clamping spindle

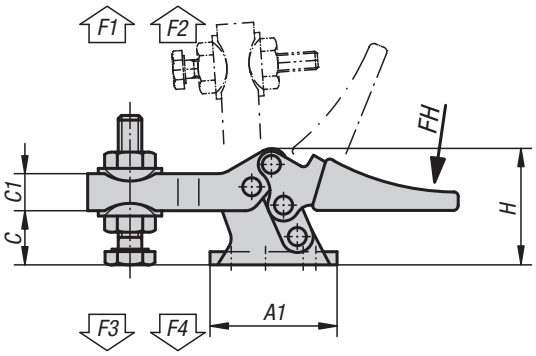
Order No.	Opening angle of holding arm	Opening angle of handle	Hand force FH N	Retaining force F1 N	Retaining force F2 N	Clamping force F3 N	Clamping force F4 N
K0071.0050	85°	65°	80	250	550	170	370

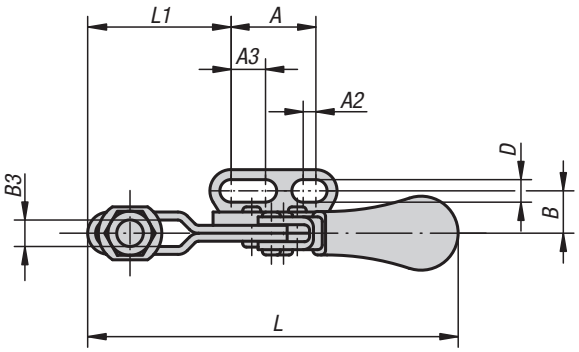
Order No.	A	A1	A2	A3	B	B1	B3	C	C1	D	H	L	L1	M
K0071.0050	16	24	2,4	6,5	8	12	5,2	9,5	7	4,2	22	70	27	M5x20

Toggle clamps mini horizontal

with flat right foot and adjustable clamping spindle







Material:
Steel.

Version:
Galvanized and chromated,
clamping spindle and nuts phosphated,
plastic handle oil-resistant

Sample order:
K0267.0050

Accessories:
K0101
K0102
K0103
K0106
K0107

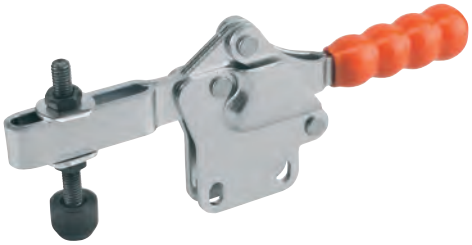
KIPP Toggle clamps mini horizontal with flat right foot and adjustable clamping spindle

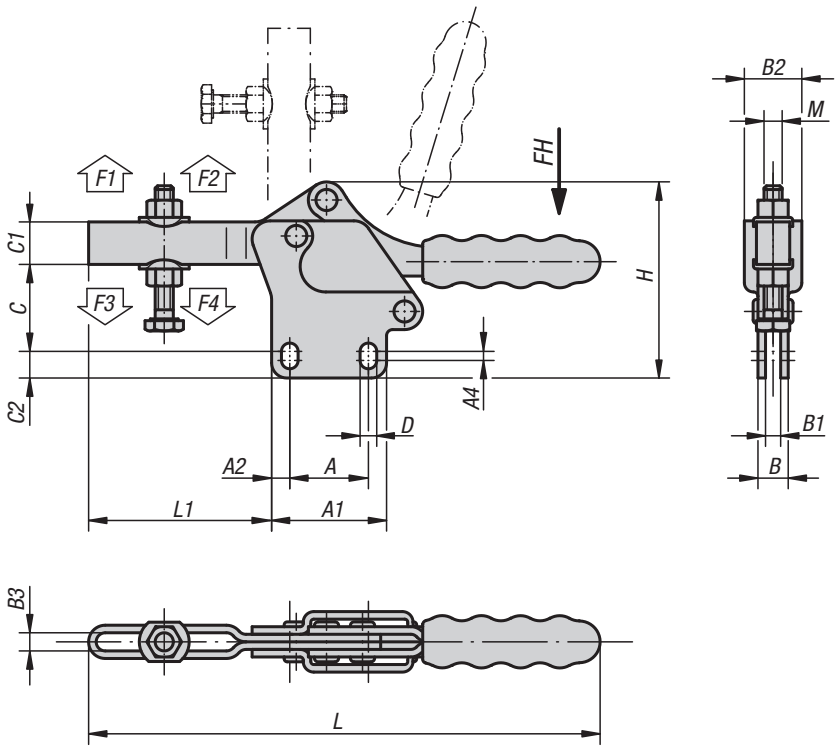
Order No.	Opening angle of holding arm	Opening angle of handle	Hand force FH N	Retaining force F1 N	Retaining force F2 N	Clamping force F3 N	Clamping force F4 N
K0267.0050	85°	65°	80	250	550	170	370

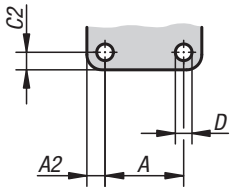
Order No.	A1	A	A2	A3	B	B1	B3	C	C1	D	H	L	L1	M
K0267.0050	24	16	2,4	6,5	8	12	5,2	9,5	7	4,2	22	70	27	M5x20

Toggle clamps horizontal

with straight foot and adjustable clamping spindle







K0072.0075
K0072.0450

Material:
Steel.

Version:
Galvanized and chromated,
clamping spindle and nuts phosphated,
plastic handle oil-resistant

Sample order:
K0072.0450

Note:
A neoprene thrust pad is supplied with versions K0072.0075 and K0072.0150.

Accessories:
K0100
K0101
K0102
K0103
K0106
K0107

KIPP Toggle clamps horizontal with straight foot and adjustable clamping spindle

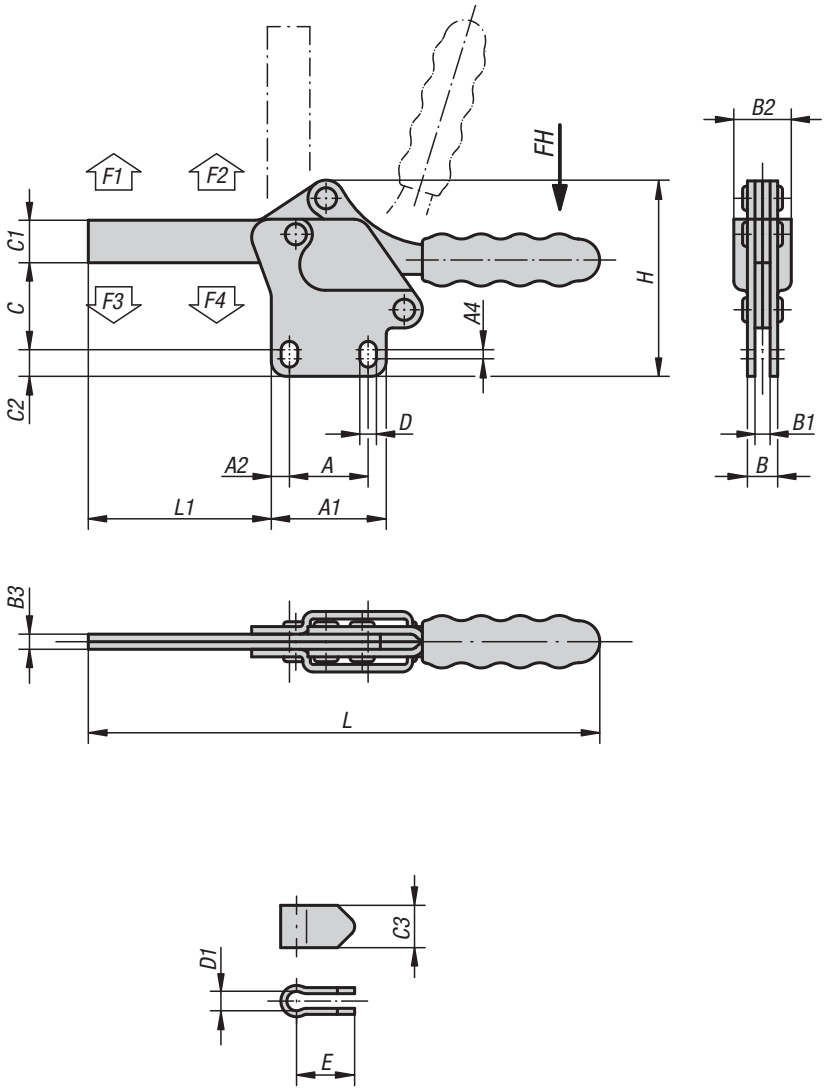
Order No.	Opening angle of holding arm	Opening angle of handle	Hand force FH N	Retaining force F1 N	Retaining force F2 N	Clamping force F3 N	Clamping force F4 N	Matching plastic grip
K0072.0075	90°	75°	80	500	1100	250	700	K0100.16
K0072.0150	90°	80°	140	1200	2600	400	1000	K0100.20
K0072.0250	95°	80°	200	1500	3500	800	1950	K0100.28
K0072.0350	90°	75°	250	2500	5500	1150	3100	K0100.30
K0072.0450	90°	75°	250	3000	6500	1150	3100	K0100.34

Order No.	A	A1	A2	A4	B	B1	B2	B3	C	C1	C2	D	H	L	L1	M
K0072.0075	13,5	25	5,7	-	8	4	16	5,8	22	9,5	5	5,2	46	116	37	M5x35
K0072.0150	26	38	6	3	10	5	20	6,2	28	14	9	5,5	66	170	60	M6x50
K0072.0250	26	42	8	2,6	12	6	23	9	39	17,5	10	6,6	82	224	79	M8x60
K0072.0350	41,2	59	9	2	16	8	30	12	54	24	10	8,7	109,5	274	108	M10x80
K0072.0450	41,2	67	13	-	20	10	38	13,2	66	27	13	8,7	130	305	129	M12x100

Toggle clamps horizontal

with straight foot and full holding arm





Material:
Steel.

Version:
Galvanized and chromated, plastic handle oil-resistant

Sample order:
K0073.0350

Note:
spindle bracket weldable.

Accessories:
K0100
K0101
K0102
K0103
K0106

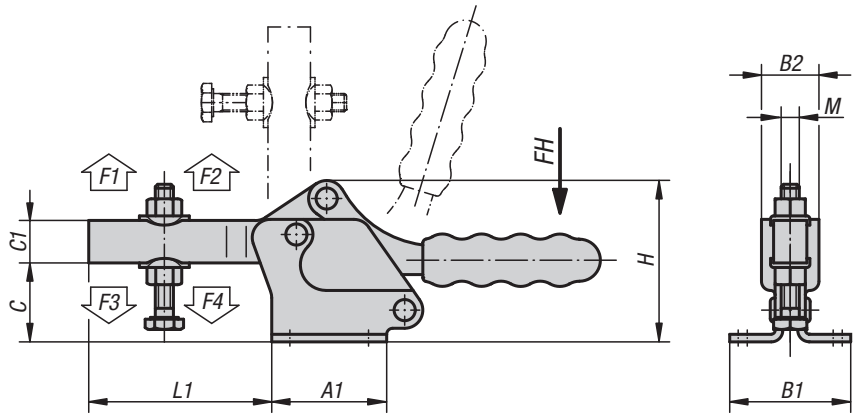
KIPP Toggle clamps horizontal with straight foot and full holding arm

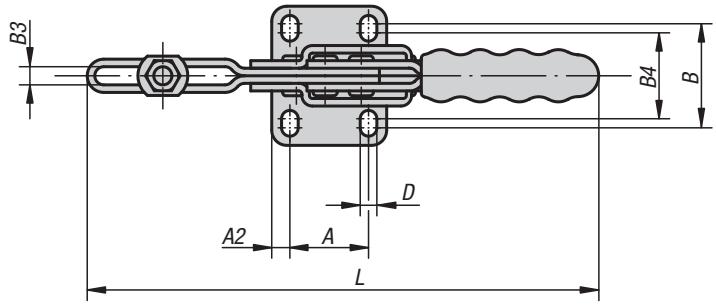
Order No.	Opening angle of holding arm	Opening angle of handle	Hand force FH N	Retaining force F1 N	Retaining force F2 N	Clamping force F3 N	Clamping force F4 N	Matching plastic grip
K0073.0250	95°	80°	200	1500	3500	800	1950	K0100.28
K0073.0350	90°	75°	250	2500	5500	1150	3100	K0100.30

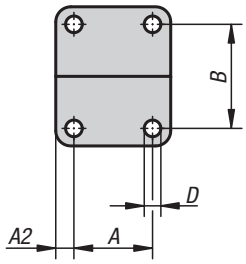
Order No.	A	A1	A2	A4	B	B1	B2	B3	C	C1	C2	C3	D	D1	E	H	L	L1	Clamping spindle
K0073.0250	26	42	8	2,6	12	6	23	6	39	17,5	10	17,5	6,6	8,3	24	82	226	82	M8x60
K0073.0350	41,2	59	9	2	16	8	30	8	54	24	10	22	8,7	10,3	30	109,5	274	110	M10x80

Toggle clamps horizontal

with flat foot and adjustable clamping spindle







K0074.0075
K0074.0450



Material:
Steel or stainless steel

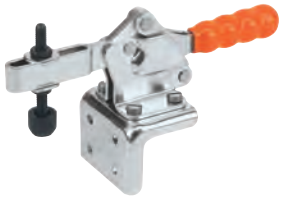
Version:
Galvanized and chromed.
Clamping spindle and nuts phosphated.
Stainless steel bright.
Plastic handle oil-resistant.

Sample order:
K0074.0350

Note:
A neoprene thrust pad is supplied with versions K0074.0075 and K0074.0150.

An angle bracket cannot be supplied in stainless steel with versions K0074.0075N and K0074.0150N.

Accessories:
K0098
K0100
K0101
K0102
K0103
K0106
K0107



Angle bracket for front face mounting (see accessories)

KIPP Toggle clamps horizontal with flat foot and adjustable clamping spindle

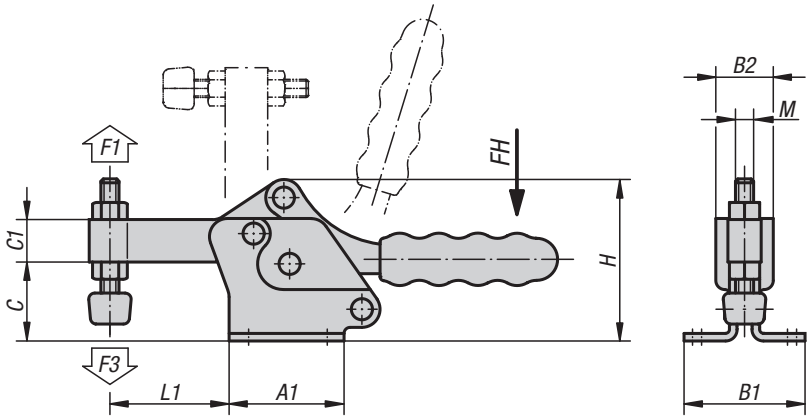
Order No.	Main material	Opening angle of holding arm	Opening angle of handle	Hand force FH N	Retaining force F1 N	Retaining force F2 N	Clamping force F3 N	Clamping force F4 N	Matching plastic grip
K0074.0075	Steel	90°	75°	80	500	1100	250	700	K0100.16
K0074.0150	Steel	90°	80°	140	1200	2600	400	1000	K0100.20
K0074.0250	Steel	95°	80°	200	1500	3500	800	1950	K0100.28
K0074.0350	Steel	90°	75°	250	2500	5500	1150	3100	K0100.30
K0074.0450	Steel	90°	75°	250	3000	6500	1150	3100	K0100.34
K0074.0075N	Stainless steel	90°	75°	80	500	1100	250	700	K0100.16
K0074.0150N	Stainless steel	90°	80°	140	1200	2600	400	1000	K0100.20

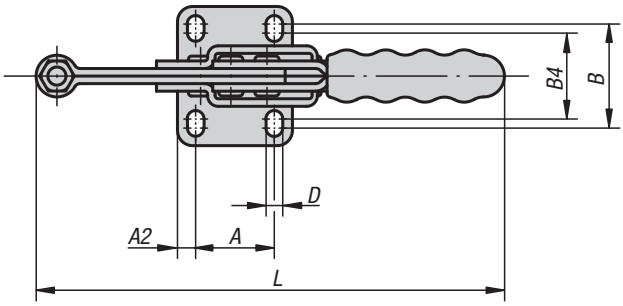
Order No.	Main material	A	A1	A2	B	B1	B2	B3	B4	C	C1	D	H	L	L1	M	Order No. Angle bracket
K0074.0075	Steel	13,5	25	5,7	17,4	27	16	5,8	-	19	9,5	5,2	38	116	37	M5x35	K0098.02
K0074.0150	Steel	26	38	6	28	40	20	6,2	22	24	14	5,5	53	170	60	M6x50	K0098.04
K0074.0250	Steel	26	42	8	31	47	23	8,5	26	35	17,5	6,6	68	224	79	M8x60	K0098.04
K0074.0350	Steel	41,2	59	9	43	59	30	12	39	45	24	8,7	91	274	108	M10x80	K0098.06
K0074.0450	Steel	41,2	67	13	41,3	67	38	14,2	-	59	27	8,7	110	305	128	M12x100	K0098.06
K0074.0075N	Stainless steel	13,5	25	5,7	17,4	27	16	5,8	-	19	9,5	5,2	38	116	37	M5x35	-
K0074.0150N	Stainless steel	26	38	6	28	40	20	6,2	22	24	14	5,5	53	170	60	M6x50	-

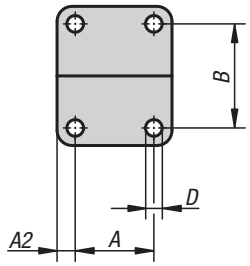
Toggle clamps horizontal

with flat foot and fixed clamping spindle









K0075.0075

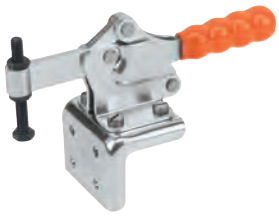
Material:
Steel.

Version:
Galvanized and chromated,
clamping spindle and nuts phosphated,
plastic handle oil-resistant

Sample order:
K0075.0075

Note:
The clamping spindle is supplied with a neoprene thrust pad.

Accessories:
K0098
K0100
K0101
K0102
K0103
K0106



Angle bracket for front face mounting (see accessories)

KIPP Toggle clamps horizontal with flat foot and fixed clamping spindle

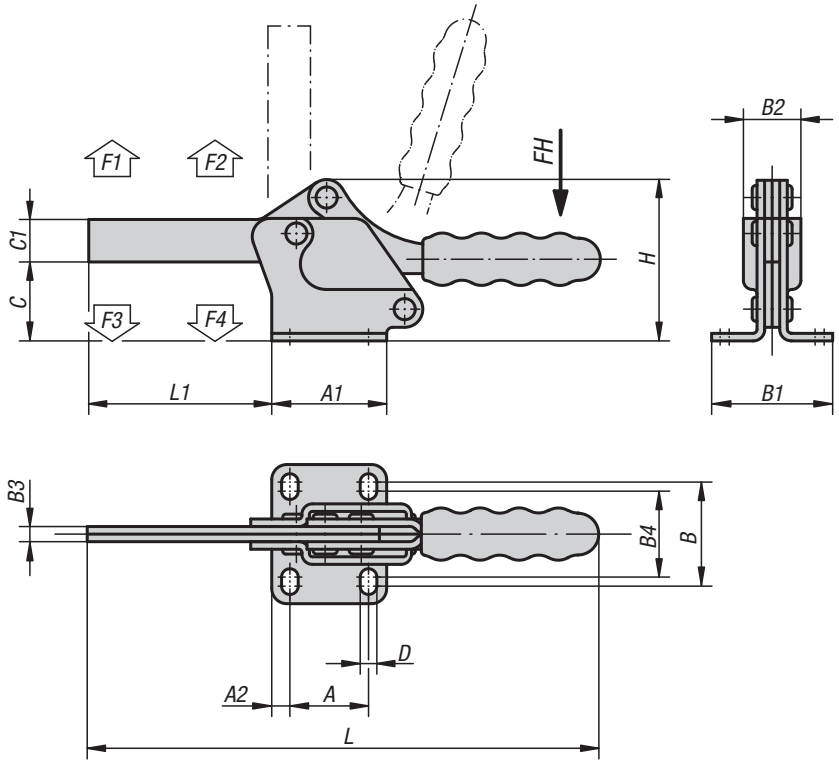
Order No.	Opening angle of holding arm	Opening angle of handle	Hand force FH N	Retaining force F1 N	Clamping force F3 N	Matching plastic grip
K0075.0075	90°	75°	80	750	320	K0100.16
K0075.0150	90°	80°	140	1500	650	K0100.20

Order No.	A	A1	A2	B	B1	B2	B4	C	C1	D	H	L	L1	M	Order No. Angle bracket
K0075.0075	13,5	25	5,7	16,8	27	16	-	19	9,5	5,2	38	108	24,5	M5x35	K0098.02
K0075.0150	26	38	6	28	40	20	22	25	14	5,5	53	155	38	M6x50	K0098.04

Toggle clamps horizontal

with flat foot and full holding arm





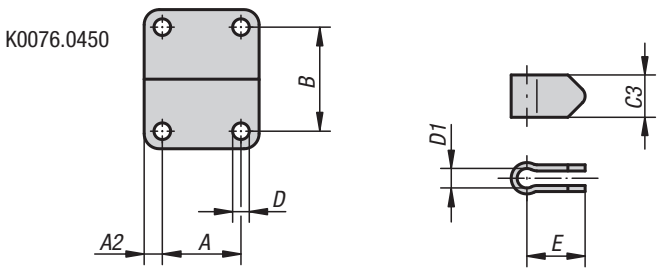
Material:
Steel.

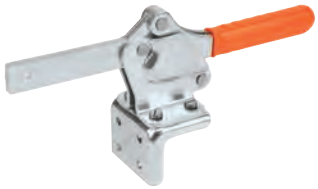
Version:
Galvanized and chromated, plastic handle oil-resistant

Sample order:
K0076.0250

Note:
spindle bracket weldable.

Accessories:
K0098
K0100
K0101
K0102
K0103
K0106





Angle bracket for front face mounting (see accessories)

KIPP Toggle clamps horizontal with flat foot and full holding arm

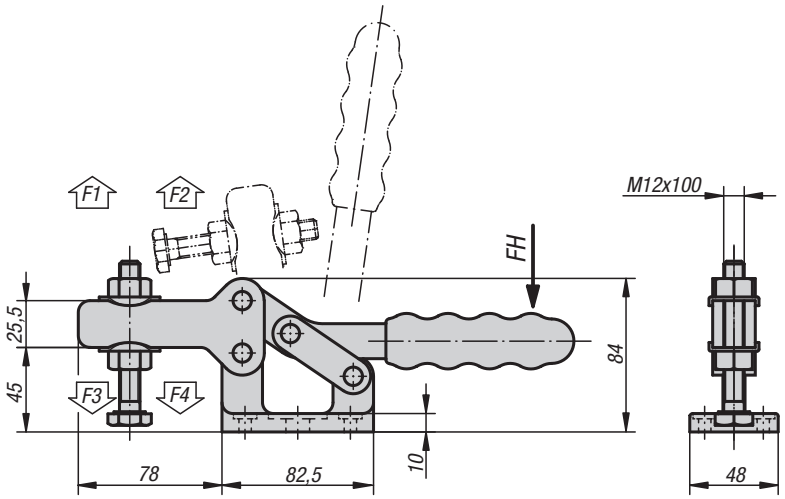
Order No.	Opening angle of holding arm	Opening angle of handle	Hand force FH N	Retaining force F1 N	Retaining force F2 N	Clamping force F3 N	Clamping force F4 N	Matching plastic grip
K0076.0250	95°	80°	200	1500	3500	800	1950	K0100.28
K0076.0350	90°	75°	250	2500	5500	1150	3100	K0100.30
K0076.0450	90°	75°	250	3000	6500	1150	3100	K0100.34

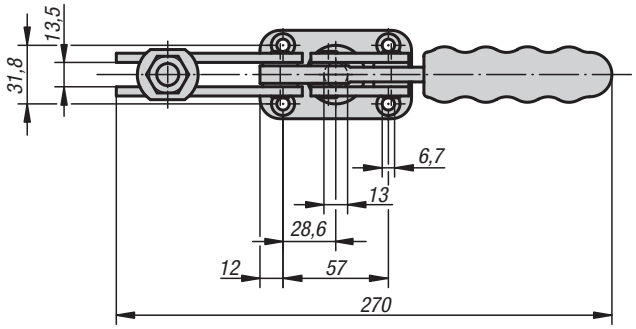
Order No.	A	A1	A2	B	B1	B2	B3	B4	C	C1	C3	D	D1	E	H	L	L1	Clamping spindle	Order No. Angle bracket
K0076.0250	26	42	8	32	47	23	6	27	34	17,5	17,5	6,6	8,3	24	67	226	82	M8x60	K0098.04
K0076.0350	41,2	59	9	43,7	60	30	8	39,7	45	24	22	8,7	10,3	30	91	272	110	M10x80	K0098.06
K0076.0450	41,2	67	13	42,8	68	38	10	-	59	27	26	8,7	12,3	32	110	310	130	M12x100	K0098.06

Toggle clamps horizontal

heavy-duty with adjustable clamping spindle







Material:
Steel. Body and grip cast steel.

Version:
Galvanized and chromated,
clamping spindle and nuts phosphated,
plastic handle oil-resistant

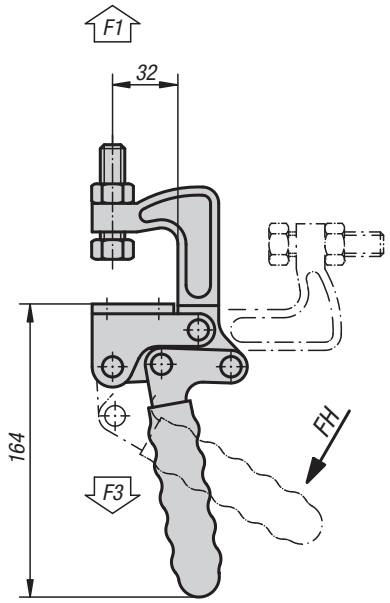
Sample order:
K0077.0700

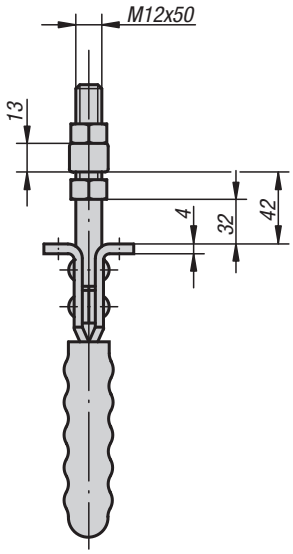
Accessories:
K0100
K0101
K0102
K0103
K0106
K0107

KIPP Toggle clamps horizontal heavy-duty with adjustable clamping spindle

Order No.	Opening angle of holding arm	Opening angle of handle	Hand force FH N	Retaining force F1 N	Retaining force F2 N	Clamping force F3 N	Clamping force F4 N	Matching plastic grip
K0077.0700	90°	95°	250	4500	9000	1800	3550	K0100.32

Toggle clamps pivot jaw





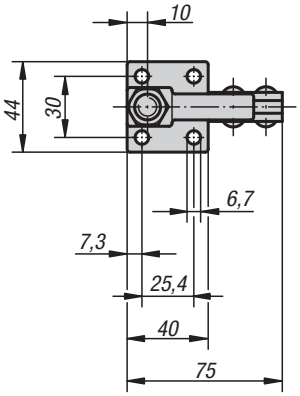


Material:
Steel, clamping bow in cast steel

Version:
Galvanized and chromated, plastic handle oil-resistant

Sample order:
K0078.0360

Note:
The pivot jaw toggle clamp is ideal for applications in which there is little mounting space at the sides. In this case the clamp plate is secured from below to the work surface.



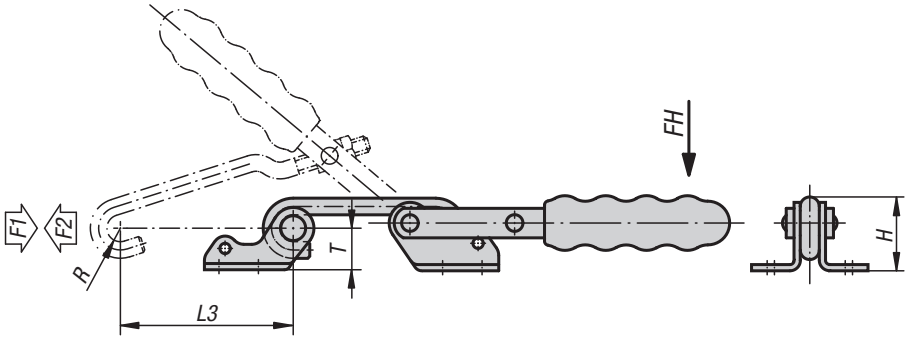
KIPP Toggle clamps pivot jaw

Order No.	Opening angle of holding arm	Opening angle of handle	Hand force FH N	Retaining force F1 N	Clamping force F3 N	Matching plastic grip
K0078.0360	90°	50°	250	3600	1150	K0100.30

Toggle clamps hook horizontal

with catch plate



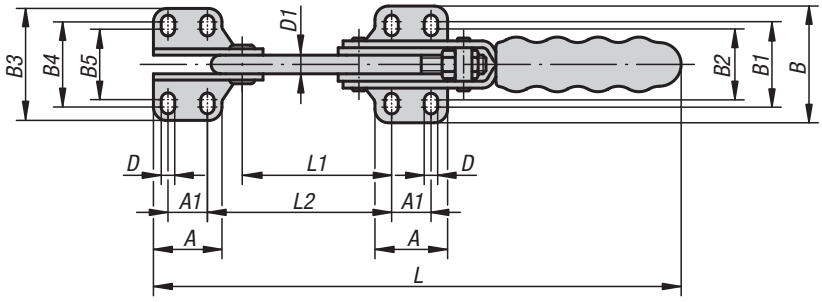


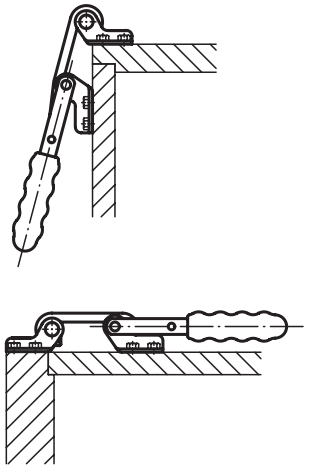
Material:
Steel or stainless steel

Version:
Galvanized and chromed.
Stainless steel bright.
Plastic handle oil-resistant.

Sample order:
K0079.0270

Note:
Horizontal hook toggle clamps are especially suitable for quickly closing and locking covers and hatches.
The amount of travel can be set by altering the hook length.
Adjustment length: 0 - 5 mm.





KIPP Toggle clamps hook horizontal with catch plate

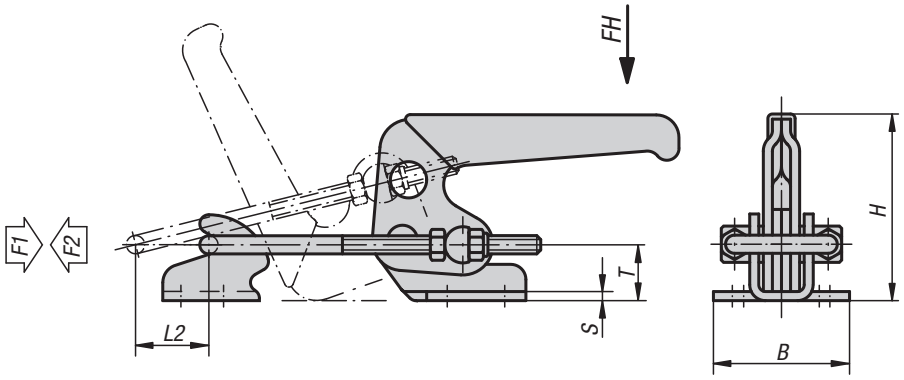
Order No.	Main material	Opening angle of handle	Hand force FH N	Pull force F1 N	Retaining force F2 N	Matching plastic grip
K0079.0130	steel	155°	100	1500	2000	K0100.19
K0079.0270	Steel	155°	160	3000	4000	K0100.28
K0079.0430	Steel	155°	200	4000	7000	K0100.34
K0079.0130N	Stainless steel	155°	100	1500	2000	K0100.19
K0079.0270N	Stainless steel	155°	160	3000	4000	K0100.28
K0079.0430N	Stainless steel	155°	200	4000	7000	K0100.34

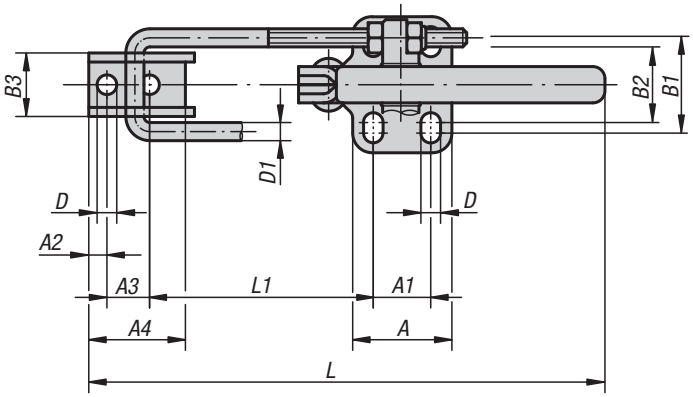
Order No.	Main material	A	A1	B	B1	B2	B3	B4	B5	D	D1	H	L	L1	L2	Clamping travel L3	R	T
K0079.0130	steel	26	13	39	27	22,2	43	31	26	5,2	6	26	171	45	58	70	6	13,5
K0079.0270	Steel	35	19	52	36	29	57	41	34	6,5	8	35	248	68	84	90	7	20
K0079.0430	Steel	51	32	72	52,5	43,5	78	59	50	8,5	12	49	310	84	104	115	10	27
K0079.0130N	Stainless steel	26	13	39	27	22,2	43	31	26	5,2	6	26	171	45	58	70	6	13,5
K0079.0270N	Stainless steel	35	19	52	36	29	57	41	34	6,5	8	35	248	68	84	90	7	20
K0079.0430N	Stainless steel	51	32	72	52,5	43,5	78	59	50	8,5	12	49	310	84	104	115	10	27

Toggle clamps latch horizontal

with catch plate





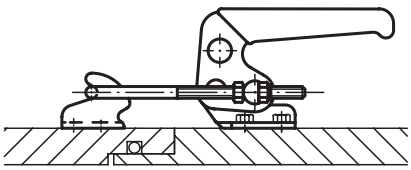


Material:
Steel or stainless steel

Version:
Galvanized and chromed.
Stainless steel bright.
Plastic handle oil-resistant.

Sample order:
K0080.0140

Note:
Horizontal latch toggle clamps are especially suitable for quickly closing and locking covers and hatches. The travel can be set by altering the hasp length.



KIPP Toggle clamps latch horizontal with catch plate

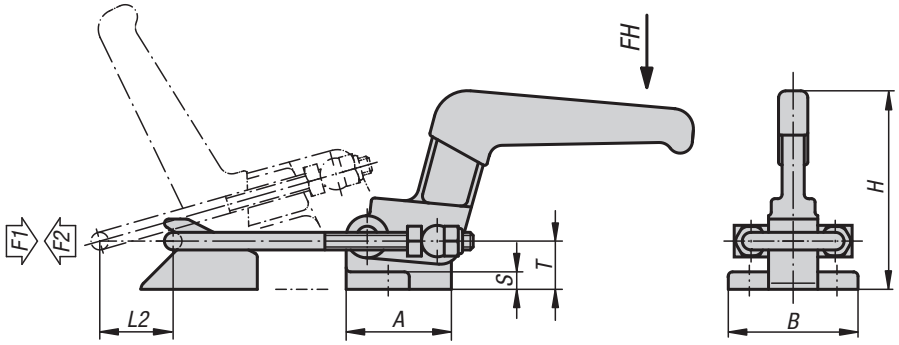
Order No.	Main material	Opening angle of handle	Hand force FH N	Retaining force F2 N	Pull force F1 N	Travel path L max.	Travel path L min.	Travel path L1 max.	Travel path L1 min.	Clamping travel L2
K0080.0140	Steel	120°	100	2000	1800	135	105	68	38	16
K0080.0250	Steel	120°	150	4000	2700	185	145	85	45	24
K0080.0450	Steel	120°	200	7000	4500	250	190	120	65	32
K0080.0140N	Stainless steel	120°	100	2000	1800	135	105	68	38	16
K0080.0250N	Stainless steel	120°	150	4000	2700	185	145	85	45	24
K0080.0450N	Stainless steel	120°	200	7000	4500	250	190	120	65	32

Order No.	Main material	A	A1	A2	A3	A4	B	B1	B2	B3	D	D1	H	S	T
K0080.0140	Steel	26	13	4,5	11	24	36	24	19	16	5,2	4	42	2,5	11,5
K0080.0250	Steel	35	19	6	14	32	48	33	26	21	6,5	6	64	3	18,5
K0080.0450	Steel	51	32	8	19	40	64	45	36	28	8,5	8	85	4	25,5
K0080.0140N	Stainless steel	26	13	4,5	11	24	36	24	19	16	5,2	4	42	2,5	11,5
K0080.0250N	Stainless steel	35	19	6	14	32	48	33	26	21	6,5	6	64	3	18,5
K0080.0450N	Stainless steel	51	32	8	19	40	64	45	36	28	8,5	8	85	4	25,5

Toggle clamps latch horizontal

heavy-duty with catch plate



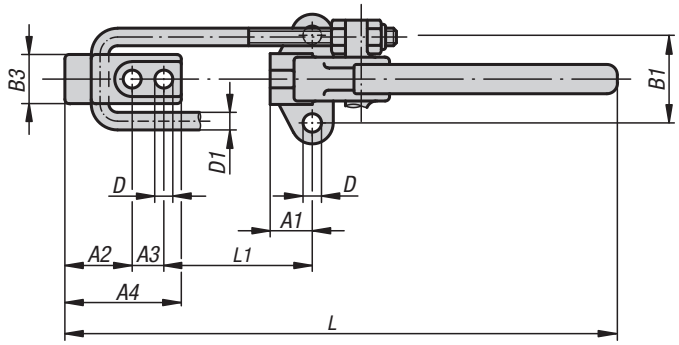


Material:
Steel. Body and catch plate cast steel.
Grip ductile iron (SGI).

Version:
Body, catch plate and handle phosphated.
Plastic handle oil-resistant.

Sample order:
K0081.1900

Note:
Horizontal latch toggle clamps are especially suitable for quickly closing and locking covers and hatches. The travel can be set by altering the hasp length.



KIPP Toggle clamps, latch, horizontal, heavy-duty with catch plate

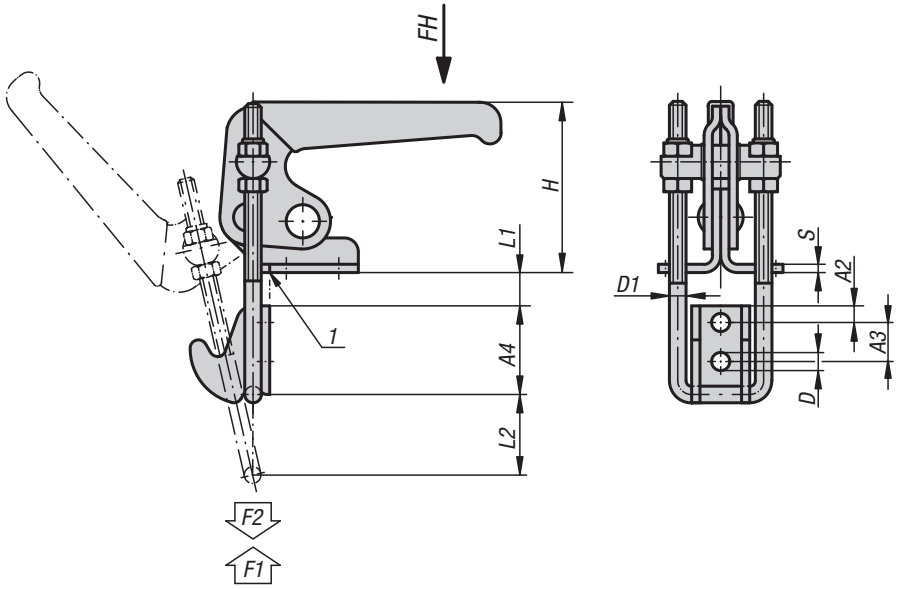
Order No.	Opening angle of handle	Hand force FH N	Retaining force F2 N	Pull force F1 N	Travel path L min.	Travel path L max.	Travel path L1 min.	Travel path L1 max.	Clamping travel L2
K0081.1650	120°	600	20000	16500	270	320	38	88	60
K0081.1900	120°	600	40000	19000	335	395	52	112	70

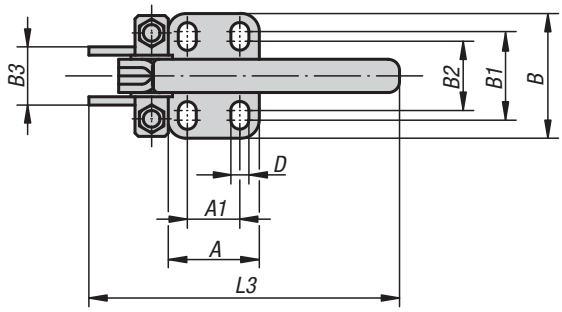
Order No.	A	A1	A2	A3	A4	B	B1	B3	D	D1	H	S	T
K0081.1650	60	24	37	18	65	74	50	28	10,3	10	115	10	27
K0081.1900	82	36	44	22	78	84	56	34	12,4	12	132	12	33,5

Toggle clamps latch vertical

with catch plate







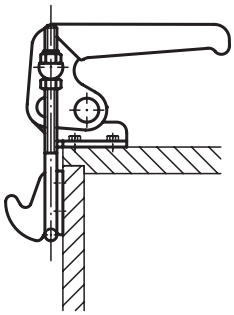
Material:
Steel or stainless steel

Version:
Galvanized and chromed.
Stainless steel bright.
Plastic handle oil-resistant.

Sample order:
K0082.0450

Note:
Vertical latch toggle clamps are especially suitable for quickly closing and locking covers and hatches.
The travel can be set by altering the hasp length.

Drawing reference:
1) edge and latch bracket mounted flush



KIPP Toggle clamps latch vertical with catch plate

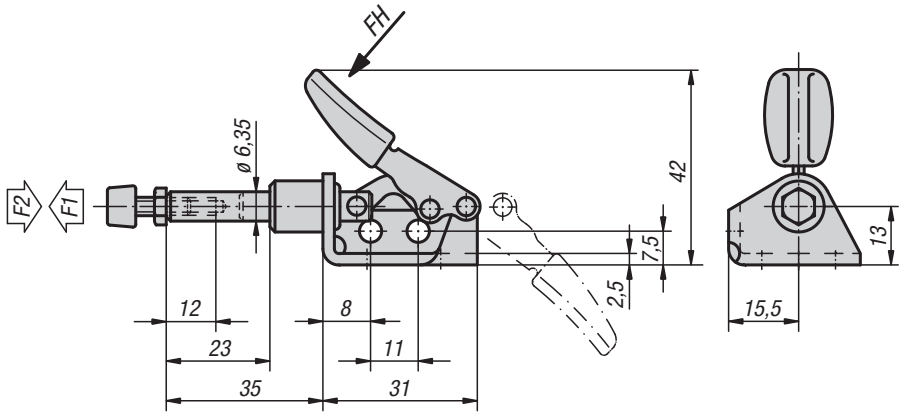
Order No.	Main material	Opening angle of handle	Hand force FH N	Retaining force F2 N	Pull force F1 N	Travel path L1 min.	Travel path L1 max.	Clamping travel L2
K0082.0140	Steel	145°	100	2000	1800	1	25	22
K0082.0250	Steel	145°	150	4000	2700	1	28	34
K0082.0450	Steel	145°	200	7000	4500	1	40	45
K0082.0140N	Stainless steel	145°	100	2000	1800	1	25	22
K0082.0250N	Stainless steel	145°	150	4000	2700	1	28	34
K0082.0450N	Stainless steel	145°	200	7000	4500	1	40	45

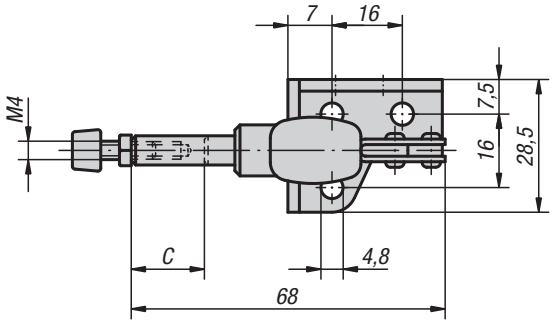
Order No.	Main material	A	A1	A2	A3	A4	B	B1	B2	B3	D	D1	L3	H	S
K0082.0140	Steel	26	13	4,5	11	24	36	24	19	16	5,2	4	76	42	2,5
K0082.0250	Steel	35	19	6	14	32	48	33	26	21	6,5	6	115	64	3
K0082.0450	Steel	51	32	8	19	40	64	45	36	28	8,5	8	152	85	4
K0082.0140N	Stainless steel	26	13	4,5	11	24	36	24	19	16	5,2	4	76	42	2,5
K0082.0250N	Stainless steel	35	19	6	14	32	48	33	26	21	6,5	6	115	64	3
K0082.0450N	Stainless steel	51	32	8	19	40	64	45	36	28	8,5	8	152	85	4

Toggle clamps mini push-pull

with mounting bracket







Material:
Steel or stainless steel

Version:
Galvanized and chromed.
Push rod and thrust screw phosphated.
Stainless steel bright.
Plastic handle oil-resistant.

Sample order:
K0083.0050

Note:
As the push-pull mini toggle clamps lock in the open and closed handle positions, they can be used to clamp when pushing or pulling.

A neoprene pressure pad is supplied.

Accessories:
K0101
K0103
K0106

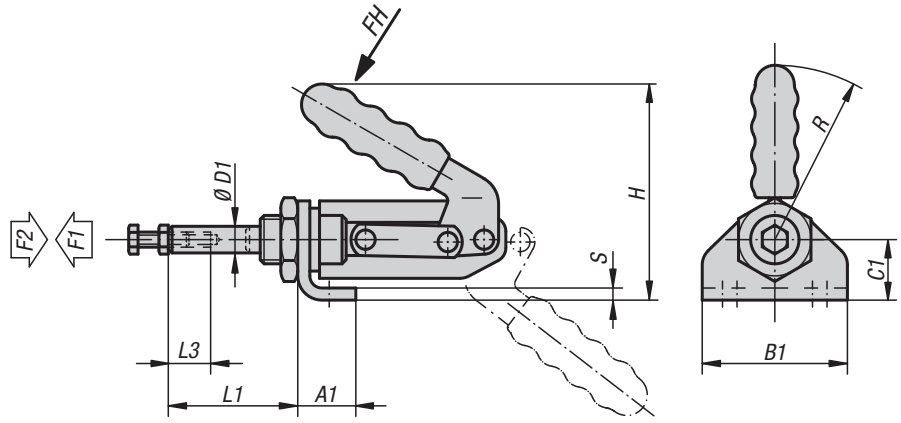
KIPP Push-pull mini-clamp with mounting bracket

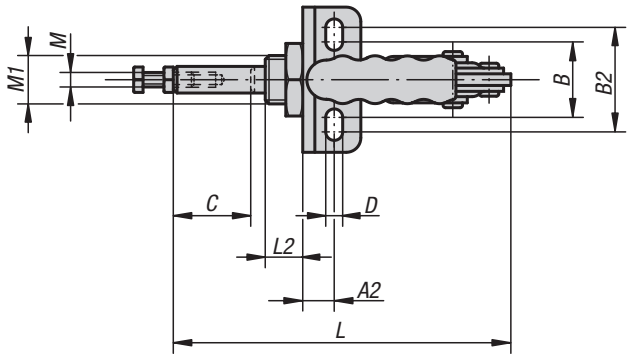
Order No.	Main material	Opening angle of handle	Hand force FH N	Retaining force F2 N	Clamping force F1 N	C (travel)
K0083.0050	Steel	190°	80	500	500	16
K0083.0050N	Stainless steel	190°	80	500	500	16

Toggle clamps push-pull

with mounting bracket







Material:
Steel.

Version:
Galvanized and chromated,
connecting rod, guide body and contact pressure screw phosphated,
plastic handle oil-resistant

Sample order:
K0084.0250

Note:
As the push-pull toggle clamps lock in open and closed handle positions, they can be used to clamp when pushing or pulling.
The fastening nut supplied allows the clamps to be mounted in any desired position.

Accessories:
K0100
K0101
K0102
K0103
K0106

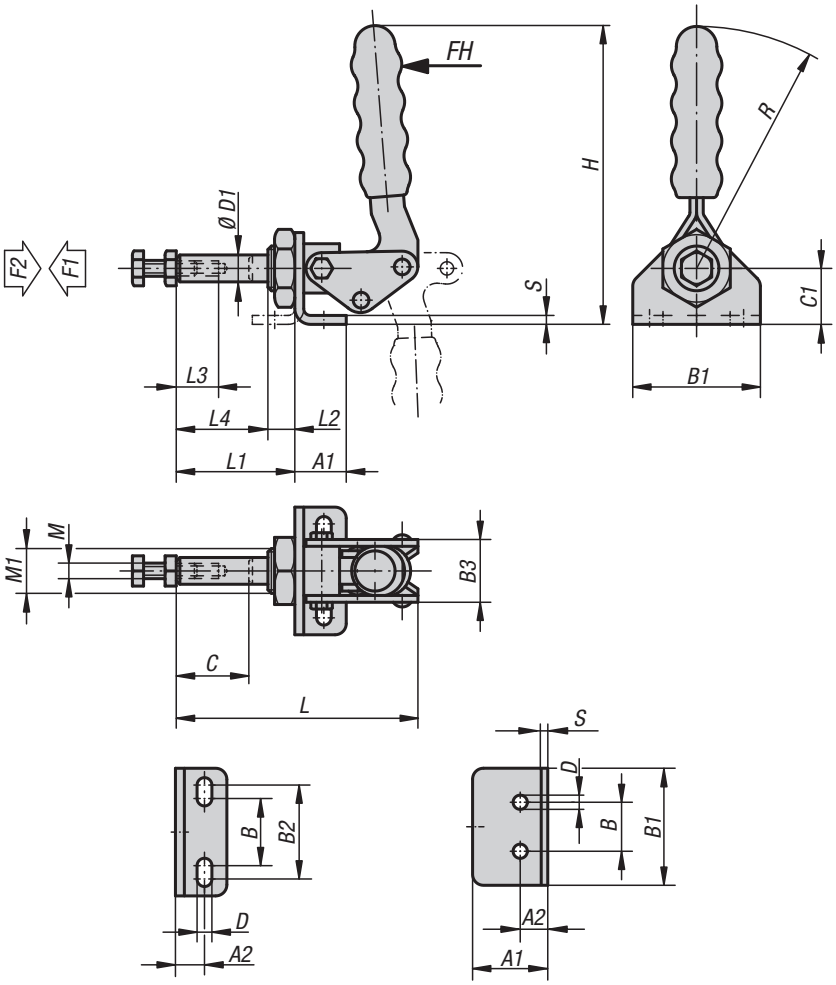
KIPP Toggle clamps push-pull with mounting bracket

Order No.	Opening angle of handle	Hand force FH N	Retaining force F2 N	Clamping force F1 N	Matching plastic grip
K0084.0250	190°	170	2500	1500	K0100.23
K0084.0450	185°	180	4000	2000	K0100.30

Order No.	A1	A2	B	B1	B2	C1	D	D1	H	L	L1	L2	L3	M	M1	S	R	C (travel)
K0084.0250	23	13	30	57,5	42	25	6,5	11,1	85	136	52,5	14	12	M6x25	M20x1,5	4	60	32
K0084.0450	30	18	30	64	45	30	8,5	16	120	173	60	17	20	M10x50	M24x1,5	5	90	38

Toggle clamps push-pull

with mounting bracket



K0085.0200
K0085.0400

K0085.0100



Material:
Steel or stainless steel

Version:
Galvanized and chromed.
Push rod and thrust screw phosphated.
Stainless steel bright.
Plastic handle oil-resistant.

Sample order:
K0085.0200

Note:
As the push-pull toggle clamps lock in open and closed handle positions, they can be used to clamp when pushing or pulling.
The fastening nut supplied allows the clamps to be mounted in any desired position.

A neoprene pressure pad is supplied with version K0085.0100.

Versions K0085.0100N, K0085.0200N and K0085.0400N are supplied without mounting bracket.

Accessories:
K0100
K0101
K0102
K0103
K0106

KIPP Toggle clamps push-pull with mounting bracket

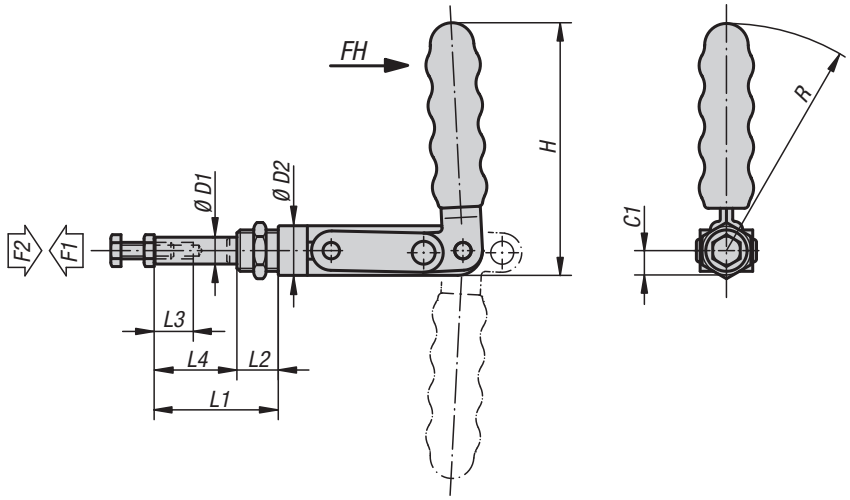
Order No.	Main material	Opening angle of handle	Hand force FH N	Retaining force F2 N	Clamping force F1 N	Matching plastic grip
K0085.0100	steel	190°	40	1000	500	K0100.22
K0085.0200	Steel	190°	50	2000	2000	K0100.28
K0085.0400	Steel	190°	150	4000	2500	K0100.30
K0085.0100N	Stainless steel	190°	40	1000	500	K0100.22
K0085.0200N	Stainless steel	190°	50	2000	2000	K0100.28
K0085.0400N	Stainless steel	190°	150	4000	2500	K0100.30

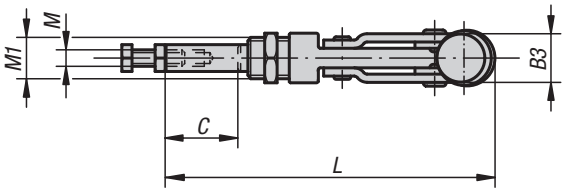
Order No.	Main material	A1	A2	B	B1	B2	B3	C1	D	D1	H	L	L1	L2	L3	L4	M	M1	S	R	C (travel)
K0085.0100	steel	20	13,5	18	44	-	25	26	5,2	10	98	69	34	10	15	23	M6x25	M16x1,5	4	70	20
K0085.0200	Steel	23	13	30	57	42	28	34	6,5	12	147	108	53	12	25	41	M8x40	M20x1,5	4	112	40
K0085.0400	Steel	30	18	30	64	45	38	30	8,5	16	160	175	88	17	35	71	M10x50	M24x1,5	5	130	68
K0085.0100N	Stainless steel	30	13,5	18	44	-	25	26	5,2	10	98	69	34	10	15	23	M6x25	M16x1,5	2	70	20
K0085.0200N	Stainless steel	23	13	30	57	42	28	25	6,5	12	137	108	53	12	25	41	M8x40	M20x1,5	4	112	40
K0085.0400N	Stainless steel	30	18	30	64	45	38	30	8,5	16	160	175	88	17	35	71	M10x50	M24x1,5	5	130	68

Toggle clamps push-pull

without mounting bracket







Material:
Steel.

Version:
Galvanized and chromated,
connecting rod, guide body and contact pressure screw phosphated,
plastic handle oil-resistant

Sample order:
K0086.0750

Note:
As the push-pull toggle clamps lock in open and closed handle positions, they can be used to clamp when pushing or pulling.
The fastening nut supplied allows the clamps to be mounted in any desired position.

Accessories:
K0100
K0101
K0102
K0103
K0106

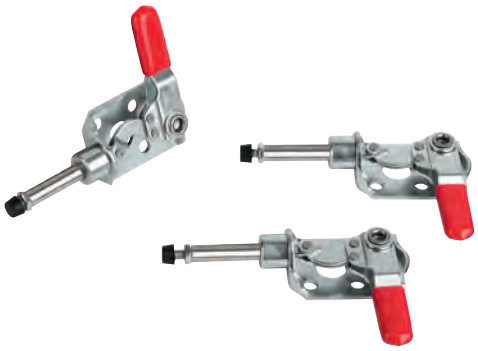
KIPP Toggle clamps push-pull without mounting bracket

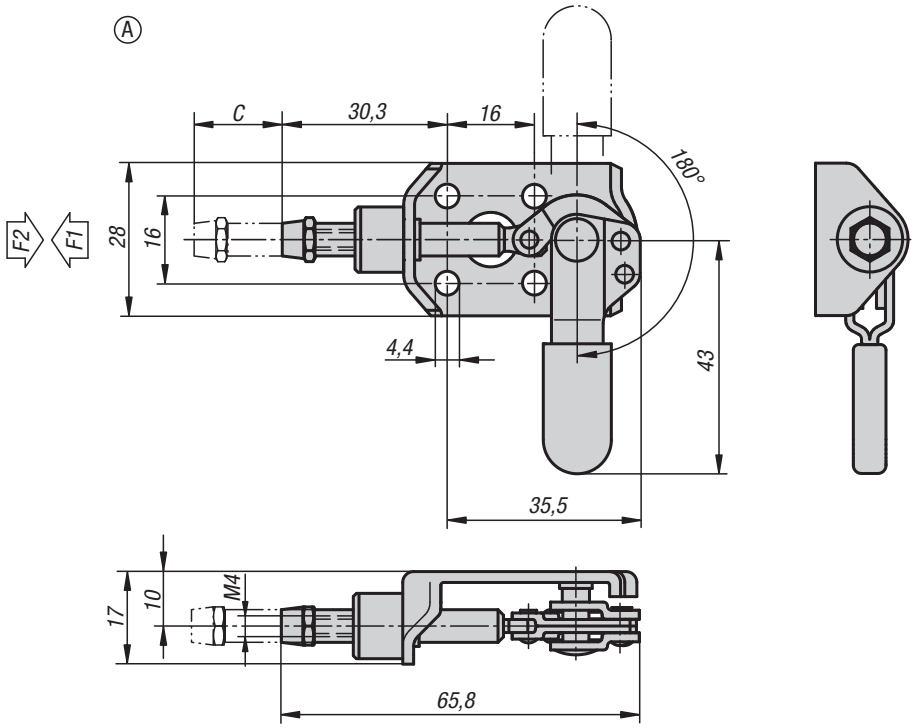
Order No.	Opening angle of handle	Hand force FH N	Retaining force F2 N	Clamping force F1 N	Matching plastic grip
K0086.0350	185°	110	3500	1500	K0100.28
K0086.0550	185°	140	5500	1600	K0100.30
K0086.0750	185°	160	7500	1600	K0100.33

Order No.	B3	C1	D1	D2	H	L	L1	L2	L3	L4	M	M1	R	C (travel)
K0086.0350	20,5	9,5	10	19	106,5	123	49	16	18	33	M6x25	M16x1,5	97	25
K0086.0550	24,5	12	13	24	130	159	60	20	30	40	M8x40	M20x1,5	118	38
K0086.0750	31	14,2	16	28,5	149	235	93	23	40	70	M10x50	M24x1,5	135	67

Toggle clamps push-pull

mini





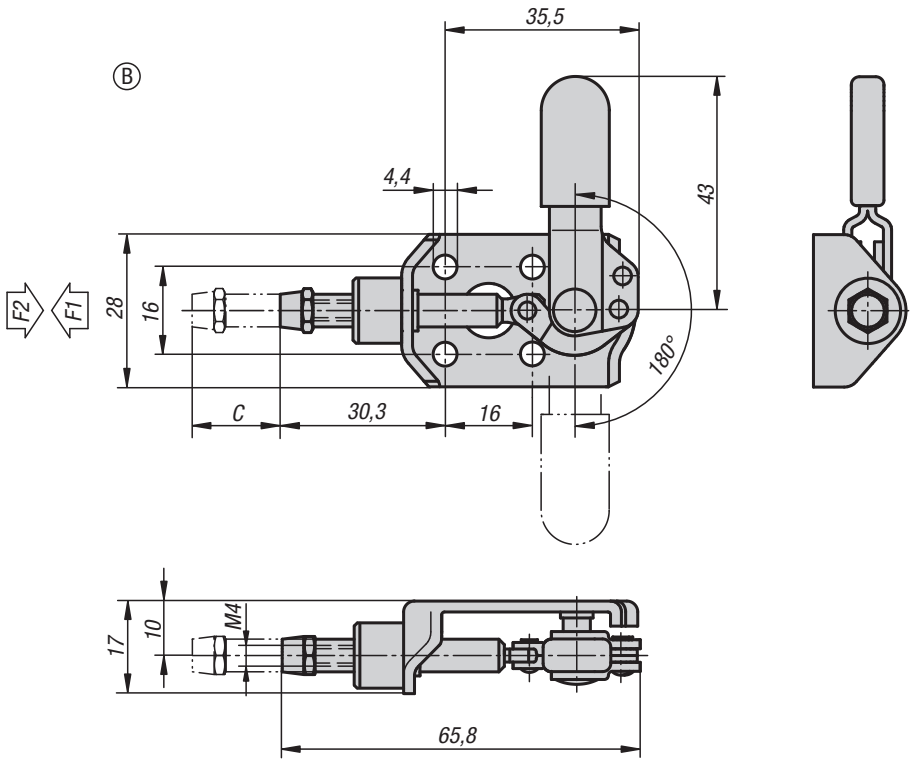
Material:
Steel.

Version:
Galvanized and chromated,
plastic handle oil-resistant

Sample order:
K0745.10050

Note:
Push-pull toggle clamps with very low profile. As the clamps lock in the open and closed handle positions, they can be used to clamp when pushing or pulling.

Drawing reference:
Form A: Thrust exerted by rotating handle to the right
Form B: Thrust exerted by rotating handle to the left

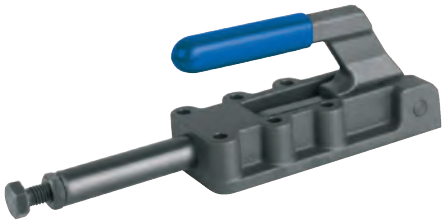


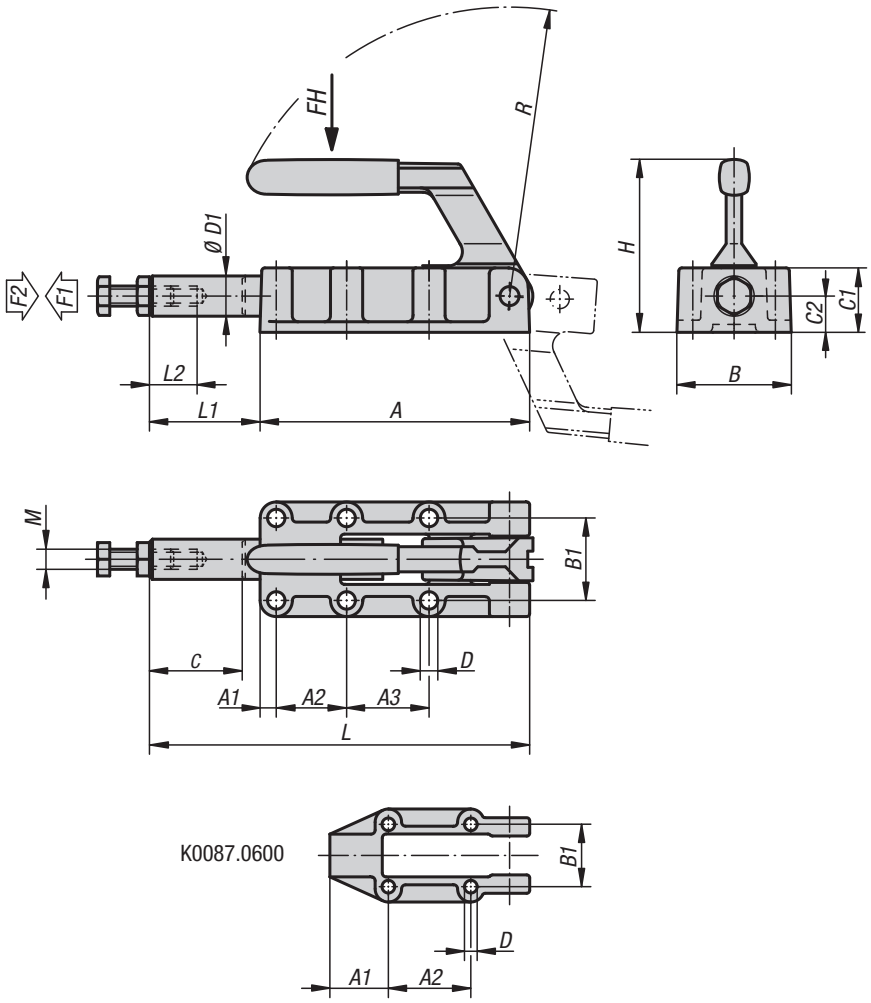
KIPP Toggle clamp mini push-pull

Order No.	Form	C (travel)	Retaining force F2 N	Retaining force F1 N
K0745.10050	A	16	500	500
K0745.20050	B	16	500	500

Push-pull clamps

heavy-duty version with handle





K0087.0600

Material:
Steel.
Body and handle ductile iron (SG iron)

Version:
Phosphated.
Plastic grip oil-resistant

Sample order:
K0087.2500

Note:
The clamps lock in the open and closed handle positions. They can be used for thrust or tension clamping.
The clamps have a stroke limitation for advance and retraction.

Accessories:
K0101
K0102
K0103
K0106

KIPP Push-pull clamps heavy-duty version with handle

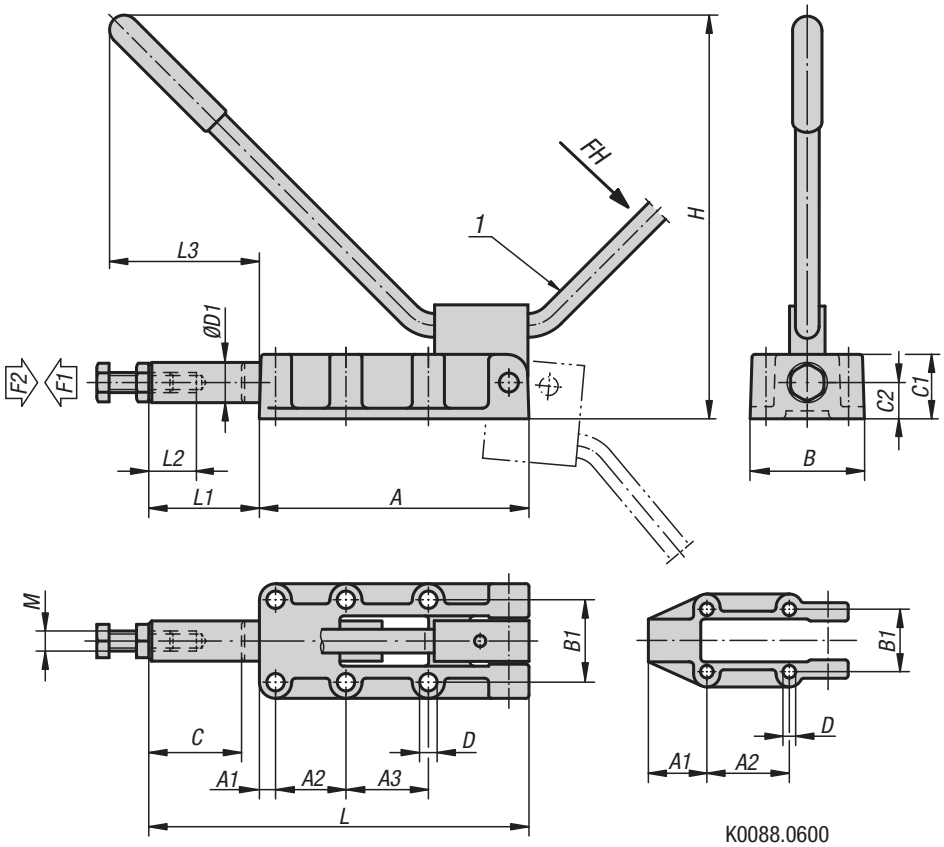
Order No.	Opening angle of handle	Hand force FH N	Retaining force F2 N	Clamping force F1 N
K0087.0600	185°	140	6000	3000
K0087.1200	185°	150	12000	5000
K0087.2500	185°	170	25000	5000
K0087.5000	185°	200	50000	7000

Order No.	A	A1	A2	A3	B	B1	C1	C2	D	D1	H	L	L1	L2	M	R	C (travel)
K0087.0600	89	25	36,5	-	46	33,4	23	12	5,5	14	63	127	38	30	M8	95	32
K0087.1200	133	8	35	41	61	41	32	18	8,5	20	88	188	55	40	M10	143	50
K0087.2500	197	11	45	45	82	54	41	22	10,3	25	108	300	103	60	M12	200	75
K0087.5000	254	10	70	70	85	57	50	28	10,3	30	127	390	136	60	M16	245	100

Push-pull clamps

heavy-duty version with reversible hand lever





K0088.0600

Material:
Steel, body in spheroidal graphite cast iron (GJS)

Version:
Phosphated, hand lever galvanized and chromed, plastic handle oil-resistant

Sample order:
K0088.0600

Note:
The clamps lock in the open and closed handle positions. They can be used for thrust or tension clamping.
The clamps have a stroke limitation for advance and retraction.

Accessories:
K0099
K0101
K0102
K0103
K0106

Drawing reference:
1) handle can be mounted on right or left

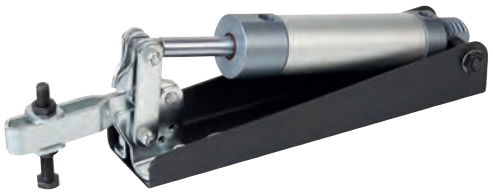
KIPP Push-pull clamps heavy-duty version with reversible hand lever

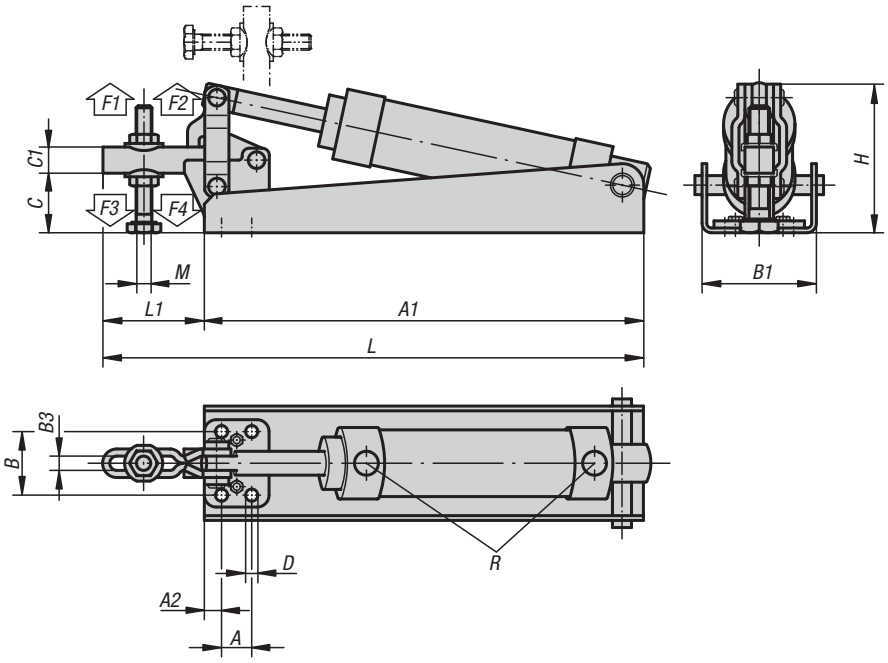
Order No.	A	A1	A2	A3	B	B1	C1	C2	D	D1	H	L	L1	L2	L3	M	C (travel)	Hand force FH N	Retaining force F2 N	Opening angle of handle
K0088.0600	89	25	36,5	-	46	33,4	23	12	5,5	14	127	127	38	30	65	M8	32	140	6000	185°
K0088.1200	133	8	35	41	61	41	32	18	8,5	20	196	188	55	40	106	M10	50	150	12000	185°
K0088.2500	197	11	45	45	82	54	41	22	10,3	25	270	300	103	60	125	M12	75	170	25000	185°
K0088.5000	254	10	70	70	85	57	50	28	10,3	30	360	390	136	60	155	M16	100	200	50000	185°

Order No.	Thrust rod extended / Clamping force F1 N
K0088.0600	5mm/1100N, 10mm/700N, 15mm/750N, 20mm/800N, 25mm/850N, 30mm/1460N, 31mm/1900N, 32mm/5800N
K0088.1200	5mm/1670N, 10mm/900N, 15mm/730N, 20mm/700N, 25mm/720N, 30mm/850N, 35mm/1000N, 40mm/1100N, 45mm/1500N, 48mm/2200N, 49mm/2900N, 50mm/9300N
K0088.2500	10mm/1000N, 20mm/720N, 30mm/600N, 40mm/700N, 50mm/880N, 60mm/1180N, 70mm/1900N, 72mm/2300N, 74mm/3530N, 75mm/11000N
K0088.5000	10mm/1800N, 20mm/1100N, 30mm/7500N, 40mm/800N, 50mm/820N, 60mm/1000N, 70mm/1000N, 80mm/1300N, 90mm/1900N, 95mm/2500N, 97mm/3100N, 99mm/4500N, 100mm/12100N

Pneumatic clamps horizontal

Form A





Material:
Lever parts and clamping spindle steel.

Version:
Lever parts galvanized and chromed.
Clamping spindle and nuts phosphated.
Cylinder bright.

Sample order:
K0089.0150

Note:
A neoprene thrust pad is supplied with versions K0089.0075 and K0089.0150.

Accessories:
K0101
K0102
K0103
K0106
K0107

Pneumatic cylinder:
Double-acting without end of stroke dampening.

KIPP Pneumatic clamps horizontal, Form A

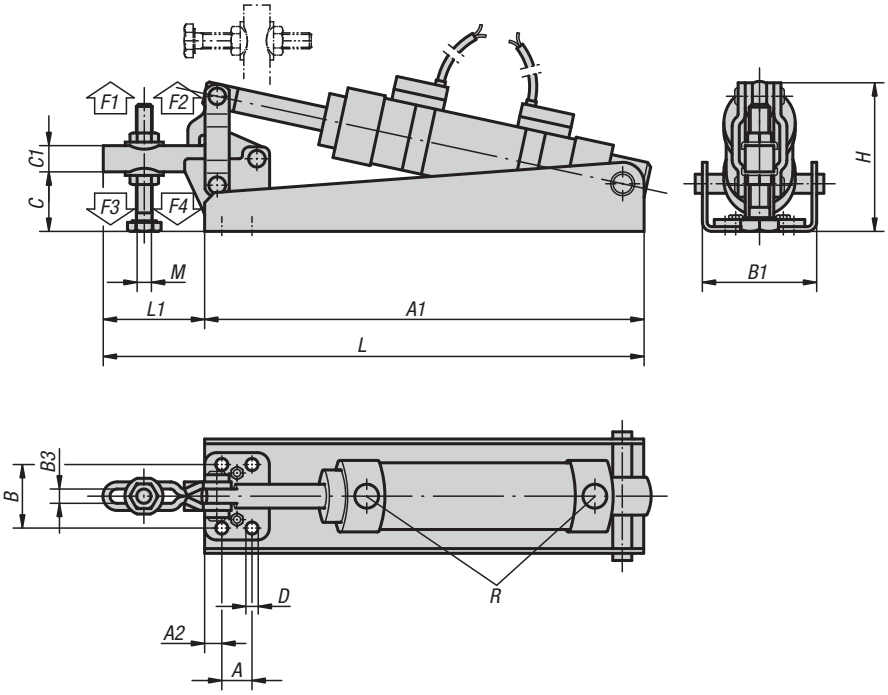
Order No.	Form	Air consumption per cycle	Opening angle of holding arm	Holding force at 6 bar F1 N	Holding force at 6 bar F2 N	Clamping force at 6 bar F3 N	Clamping force at 6 bar F4 N
K0089.0075	A	0,02 dm^3	70°	1000	1600	800	1400
K0089.0150	A	0,04 dm^3	85°	1300	1900	1000	1600
K0089.0250	A	0,09 dm^3	85°	1600	2400	1200	1800
K0089.0450	A	0,27 dm^3	85°	3000	5800	2600	5400

Order No.	Form	A	A1	A2	B	B1	B3	C	C1	D	H	L	L1	M	R	Operating pressure bar	strokes per min. at 6 bar
K0089.0075	A	16	145	5	24	40	5,3	18	9	4,4	50	177	32	M5x35	G1/8	2 - 6	40
K0089.0150	A	12,7	185	7	27	48	6,4	24	11	5,1	62	227	42	M6x50	G1/8	2 - 6	60
K0089.0250	A	19	234	8	32	59	8,9	35	17,5	7,1	84	309	75	M8x60	G1/8	2 - 6	55
K0089.0450	A	32	289	10	45	76	12,7	54	25	8,7	122	413	124	M12x100	G1/8	2 - 6	55

Pneumatic clamps horizontal

Form B





Material:
Lever parts and clamping spindle steel.

Version:
Lever parts galvanized and chromed.
Clamping spindle and nuts phosphated.
Cylinder bright.

Sample order:
K0090.0150

Technical data for proximity reed switch:
Max. performance DC = 10 W / AC = 12 VA.
Max. rated voltage 10 - 60 V, DC and AC.
Max. rated power 500 mA.

Accessories:
K0101
K0102
K0103
K0106
K0107

Pneumatic cylinder:
Double-acting without end of stroke dampening and equipped with two proximity reed switches with LED indicators.

KIPP Pneumatic clamps horizontal, Form B

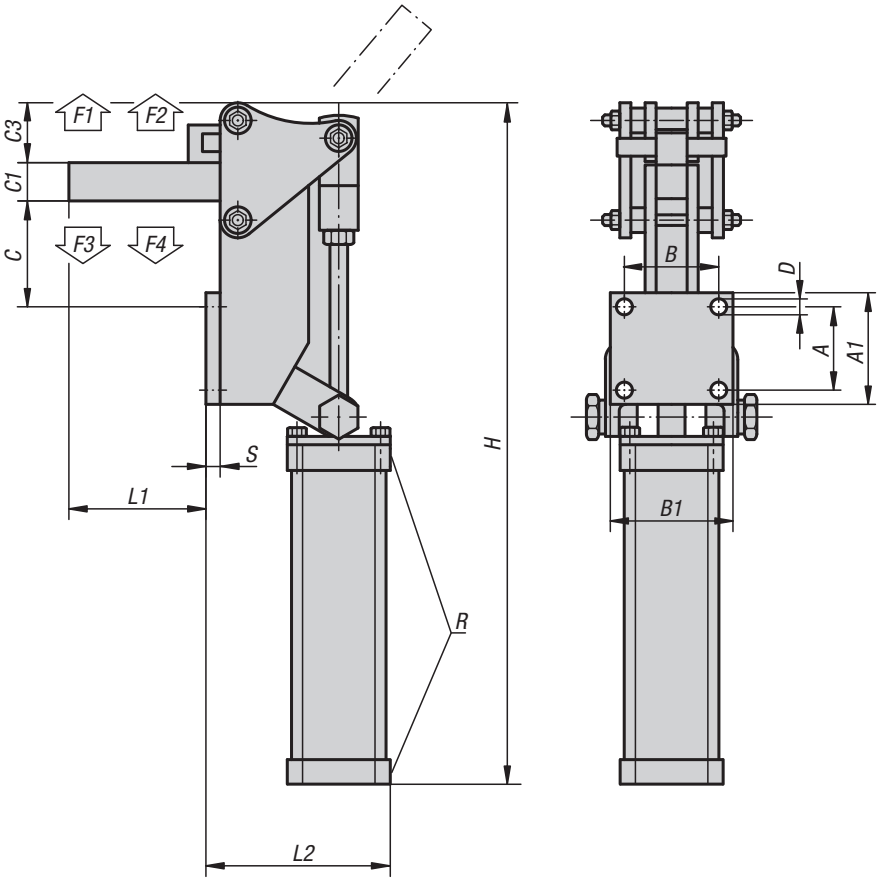
Order No.	Form	Air consumption per cycle	Opening angle of holding arm	Holding force at 6 bar F1 N	Holding force at 6 bar F2 N	Clamping force at 6 bar F3 N	Clamping force at 6 bar F4 N
K0090.0075	B	0,02 dm^3	70°	1000	1600	800	1400
K0090.0150	B	0,04 dm^3	85°	1300	1900	1000	1600
K0090.0250	B	0,09 dm^3	85°	1600	2400	1200	1800
K0090.0450	B	0,27 dm^3	85°	3000	5800	2600	5400

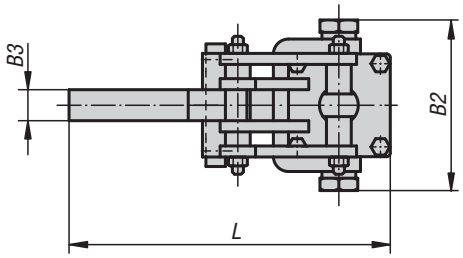
Order No.	Form	A	A1	A2	B	B1	B3	C	C1	D	H	L	L1	M	R	Operating pressure bar	strokes per min. at 6 bar
K0090.0075	B	16	145	5	24	40	5,3	18	9	4,4	50	177	32	M5x35	G1/8	2 - 6	40
K0090.0150	B	12,7	185	7	27	48	6,4	24	11	5,1	62	227	42	M6x50	G1/8	2 - 6	60
K0090.0250	B	19	234	8	32	59	8,9	35	17,5	7,1	84	309	75	M8x60	G1/8	2 - 6	55
K0090.0450	B	32	289	10	45	76	12,7	54	25	8,7	122	413	124	M12x100	G1/8	2 - 6	55

Pneumatic clamps vertical

heavy-duty version







Material:
Steel.

Version:
Black oxidised. Cylinder painted.

Sample order:
K0091.1750

On request:
Proximity reed switch.

Pneumatic cylinder:
Double-acting with adjustable end of stroke dampening both ways.

KIPP Pneumatic clamps vertical, heavy-duty version

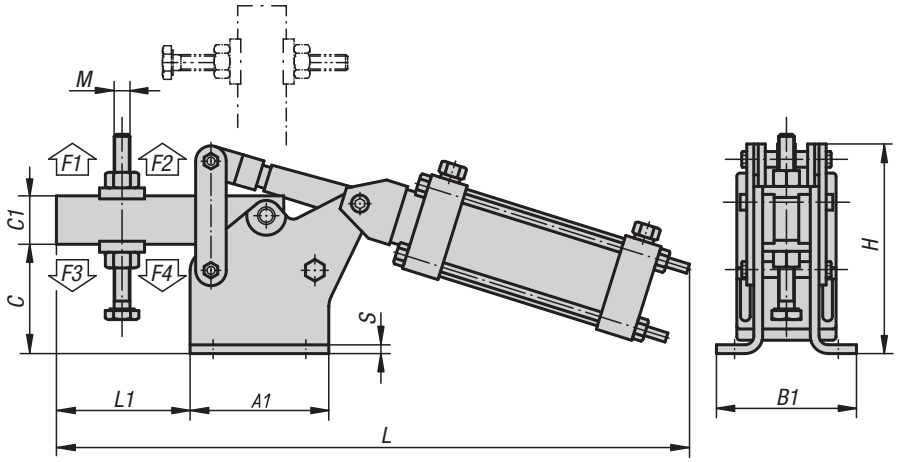
Order No.	Air consumption per cycle	Opening angle of holding arm	Holding force at 6 bar F1 N	Holding force at 6 bar F2 N	Clamping force at 6 bar F3 N	Clamping force at 6 bar F4 N
K0091.0750	0,27 dm³	120°	3000	7500	2250	3150
K0091.1750	0,75 dm³	120°	6500	17500	6500	8000

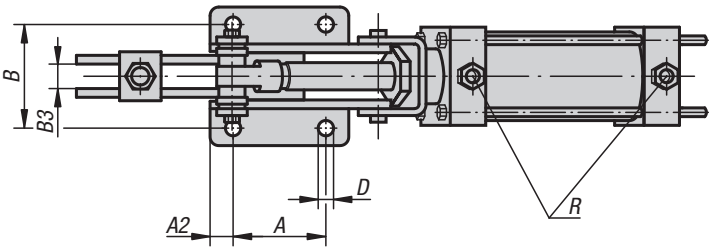
Order No.	A	A1	B	B1	B2	B3	C	C1	C3	D	H	L	L1	L2	S	R	Operating pressure bar	strokes per min. at 6 bar
K0091.0750	48	63	48	63	92	12,7	72	19	43	8,7	425	169	67	102	8	G1/4	2 - 6	30
K0091.1750	54,9	76,2	61,8	82,5	109,3	15,8	71,8	25,3	51,4	10,6	495,6	220,7	93,1	126,1	9,6	G1/4	2 - 6	15

Pneumatic clamps horizontal

heavy-duty version







Material:
Steel.

Version:
Black oxidised. Cylinder painted.

Sample order:
K0092.2000

On request:
Proximity reed switch.

Pneumatic cylinder:
Double-acting with adjustable end of stroke dampening both ways.

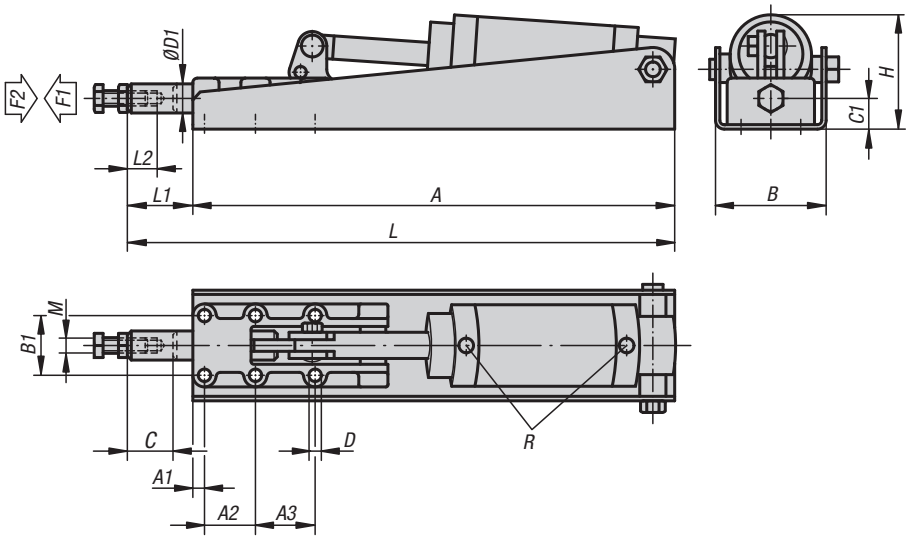
KIPP Pneumatic clamp horizontal, heavy-duty version

Order No.	Air consumption per cycle	Opening angle of holding arm	Holding force at 6 bar F1 N	Holding force at 6 bar F2 N	Clamping force at 6 bar F3 N	Clamping force at 6 bar F4 N
K0092.2000	0,76 dm³	85°	9000	20000	6500	8000

Order No.	A	A1	A2	B	B1	B3	C	C1	D	H	L	L1	M	S	R	Operating pressure bar	strokes per min. at 6 bar
K0092.2000	85	128	21	95	126	19	102	45	14,2	195	592	127	M18x150	8	G 3/8	2 - 6	10

Pneumatic push-pull clamps





Material:
Lever parts, bracket and thrust rod, steel.
Thrust rod housing ductile iron (SG iron)

Version:
Phosphated. Cylinder bright.

Sample order:
K0093.2500

Accessories:
K0101
K0102
K0103
K0106

Pneumatic cylinder:
Double-acting without end of stroke dampening.

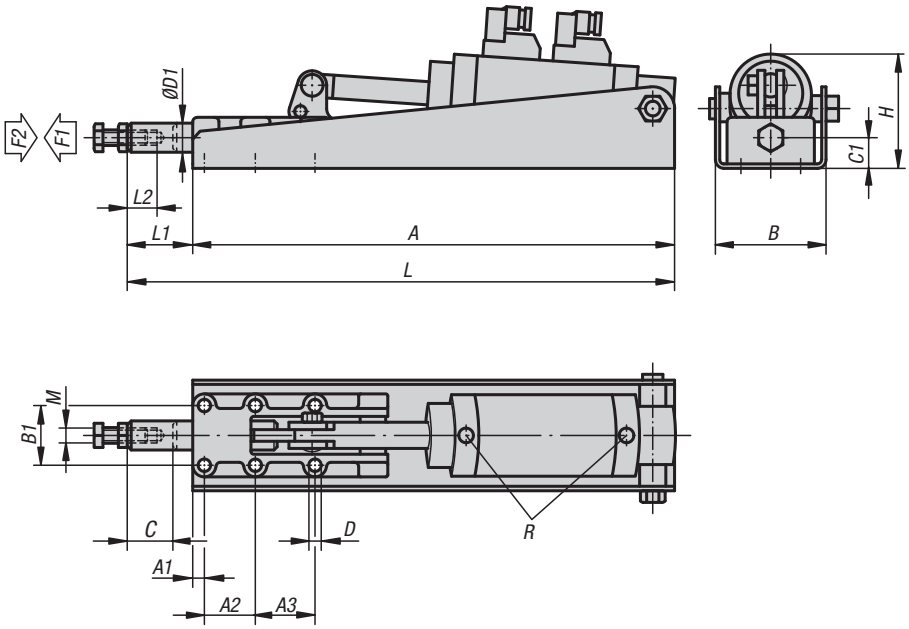
KIPP Pneumatic push-pull clamps

Order No.	A	A1	A2	A3	B	B1	C1	D	D1	H	L	L1	L2	M	R	C (travel)	Retaining force F2 N	Operating pressure bar	Air consumption per cycle	strokes per min. at 6 bar
K0093.0600	290	25	36,5	-	59	33,4	14,5	5,5	14	53	325	41	30	M8	G1/8	25	6000	2 - 6	0,09 dm^3	60
K0093.1200	380	8	35	41	76	41	21	8,5	20	75	435	55	40	M10	G1/8	32	12000	2 - 6	0,28 dm^3	50
K0093.2500	475	12	45	45	96	54	26	10,3	25	96	577	102	60	M12	G1/4	50	25000	2 - 6	0,60 dm^3	45

Order No.	Thrust rod extended / Clamping force F1 N
K0093.0600	5mm/320N, 10mm/430N, 15mm/650N, 20mm/870N, 22mm/1000N, 24mm/1500N, 25mm/2350N
K0093.1200	5mm/1200N, 10mm/1400N, 15mm/1650N, 20mm/1950N, 25mm/2300N, 27mm/2550N, 29mm/3000N, 31mm/4300N, 32mm/11500N
K0093.2500	5mm/1400N, 10mm/1600N, 15mm/1750N, 20mm/2000N, 25mm/2100N, 30mm/2450N, 35mm/2650N, 40mm/3250N, 45mm/4200N, 47mm/4900N, 49mm/7000N, 50mm/14500N

Pneumatic push-pull clamps





Material:
Lever parts, bracket and thrust rod, steel.
Thrust rod housing ductile iron (SG iron)

Version:
Phosphated. Cylinder bright.

Sample order:
K0094.2500

Technical data for proximity reed switch:
Max. performance DC = 10 W / AC = 12 VA.
Max. voltage rating 10 - 60 V, DC and AC.
Max. contact rating 500 mA.

Accessories:
K0101
K0102
K0103
K0106

Pneumatic cylinder:
Double-acting without end of stroke dampening and equipped with two proximity reed switches with LED indicators.

KIPP Pneumatic push-pull clamps

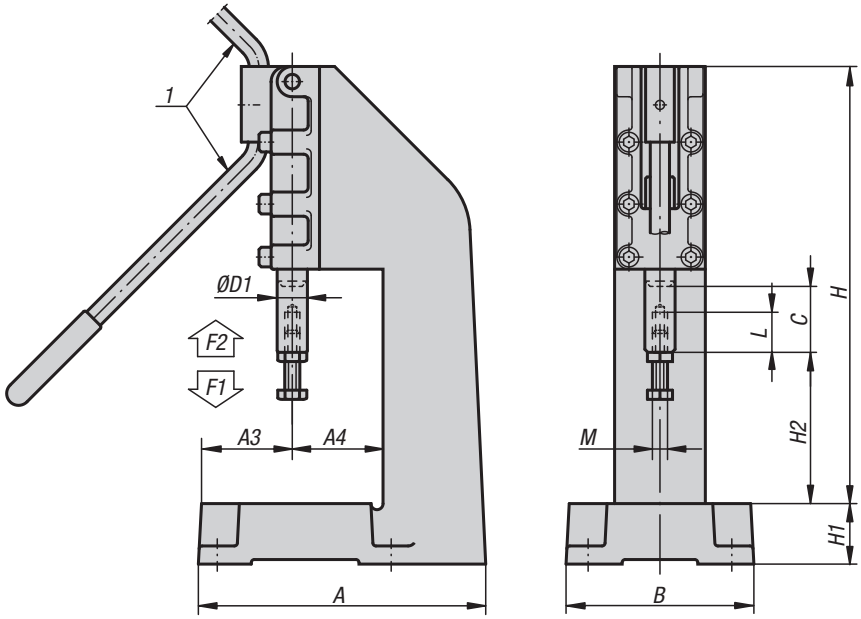
Order No.	A	A1	A2	A3	B	B1	C1	D	D1	H	L	L1	L2	M	R	C (travel)	Retaining force F2 N	Operating pressure bar	Air consumption per cycle	strokes per min. at 6 bar
K0094.0600	290	25	36,5	-	59	33,4	14,5	5,5	14	53	331	41	30	M8	G1/8	25	6000	2 - 6	0,09 dm^3	60
K0094.1200	380	8	35	41	76	41	21	8,5	20	75	435	55	40	M10	G1/8	32	12000	2 - 6	0,28 dm^3	50
K0094.2500	475	12	45	45	96	54	26	10,3	25	96	577	102	60	M12	G1/4	50	25000	2 - 6	0,60 dm^3	45

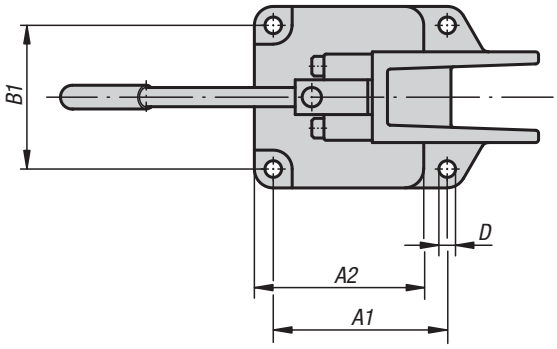
Order No.	Thrust rod extended / Clamping force F1 N
K0094.0600	5mm/320N, 10mm/430N, 15mm/650N, 20mm/870N, 22mm/1000N, 24mm/1500N, 25mm/2350N
K0094.1200	5mm/1200N, 10mm/1400N, 15mm/1650N, 20mm/1950N, 25mm/2300N, 27mm/2550N, 29mm/3000N, 31mm/4300N, 32mm/11500N
K0094.2500	5mm/1400N, 10mm/1600N, 15mm/1750N, 20mm/2000N, 25mm/2100N, 30mm/2450N, 35mm/2650N, 40mm/3250N, 45mm/4200N, 47mm/4900N, 49mm/7000N, 50mm/14500N

Toggle presses

for manual operation







Material:
Press stand cast steel.
For push-pull clamp see K0088

Version:
Press stand painted black.
For push-pull clamp see K0088

Sample order:
K0095.0600

Note:
The thrust clamps can be re-ordered as a complete assembly kit. See K0088 for specifications.

Accessories:
K0088
K0099
K0101
K0102
K0103
K0106

Drawing reference:
1) handle can be mounted on right or left

KIPP Toggle presses for manual operation

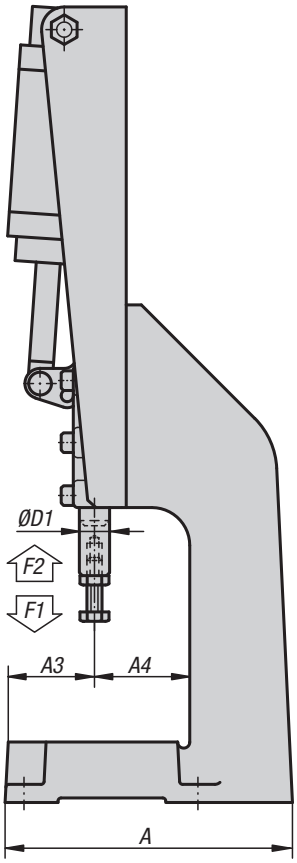
Order No.	A	A1	A2	A3	A4	B	B1	D	D1	H	H1	H2	L	M	C (travel)	Hand force FH N	Retaining force F2 N	Opening angle of handle
K0095.0600	150	95	94	50	50	100	80	9	14	202	30	75	30	M8	32	140	6000	185°
K0095.1200	192	115	112	60	60	120	95	11	20	290	40	100	40	M10	50	150	12000	185°
K0095.2500	238	145	142	75	75	150	125	11	25	418	50	120	60	M12	75	170	25000	185°

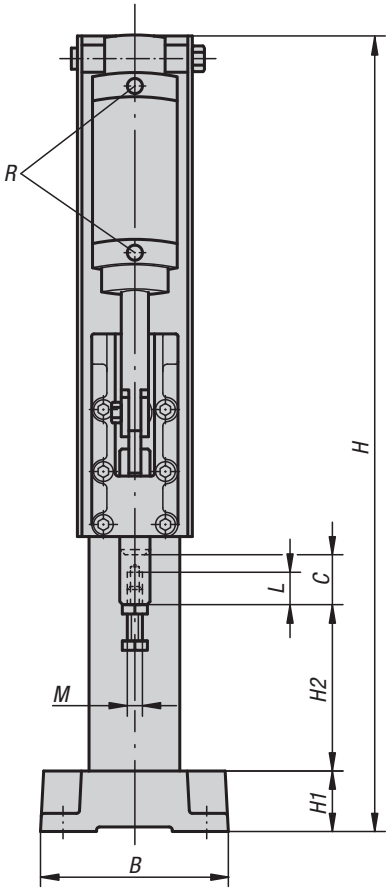
Order No.	Thrust rod extended / Clamping force F1 N
K0095.0600	5mm/1100N, 10mm/700N, 15mm/750N, 20mm/800N, 25mm/850N, 30mm/1460N, 31mm/1900N, 32mm/5800N
K0095.1200	5mm/1670N, 10mm/900N, 15mm/730N, 20mm/700N, 25mm/720N, 30mm/850N, 35mm/1000N, 40mm/1100N, 45mm/1500N, 48mm/2200N, 49mm/2900N, 50mm/9300N
K0095.2500	10mm/1000N, 20mm/720N, 30mm/600N, 40mm/700N, 50mm/880N, 60mm/1180N, 70mm/1900N, 72mm/2300N, 74mm/3530N, 75mm/11000N

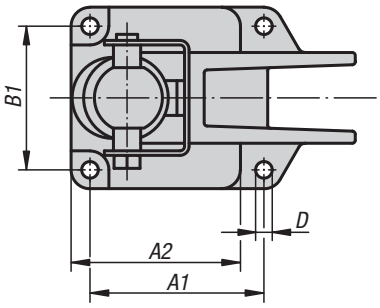
Toggle presses

for pneumatic operation









Material:
Press stand cast steel.
Pneumatic push-pull clamp see K0093 and K0094.

Version:
Press stand painted black.
For pneumatic push-pull clamp see K0093 and K0094.

Sample order:
K0096.0600

Note:
Double-acting cylinder without end position damping. Pneumatic push-pull clamps can be re-ordered as a complete assembly kit. See K0093, K0094 for specifications and clamping forces.

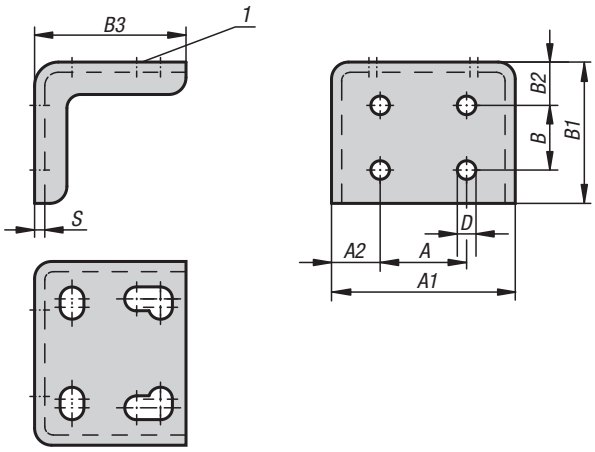
Accessories:
K0093
K0094
K0101
K0102
K0103
K0106

KIPP Toggle presses for pneumatic operation

Order No.	A	A1	A2	A3	A4	B	B1	D	D1	H	H1	H2	L	M	R	C (travel)	Retaining force F2 N	Operating pressure bar	Air consumption per cycle	strokes per min. at 6 bar
K0096.0600	150	95	94	48	52	100	80	9	14	432	30	75	30	M8	G1/8	25	6000	2 - 6	0,09 dm^3	60
K0096.1200	192	115	112	57	63	120	95	11	20	575	40	100	40	M10	G1/8	32	12000	2 - 6	0,28 dm^3	50
K0096.2500	238	145	142	71	79	150	125	11	25	748	50	120	60	M12	G1/4	50	25000	2 - 6	0,60 dm^3	45

Angle brackets





Material:
Steel.

Version:
Galvanized and chromed.

Sample order:
K0098.02

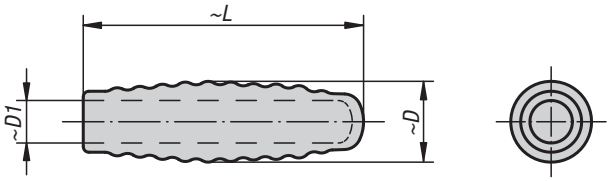
Drawing reference:
1) mount clamp on this face

KIPP Angle brackets

Order No.	A	A1	A2	B	B1	B2	B3	D	S
K0098.02	18	43	12,5	15	36,5	13,5	29,5	5	2
K0098.04	25,4	54	14,2	19	41,5	12,7	44,5	5,5	3
K0098.06	44	76	16	32	62	21	66	8,6	4

Plastic grips

round





Material:
Plastic

Version:
Orange, oil-resistant

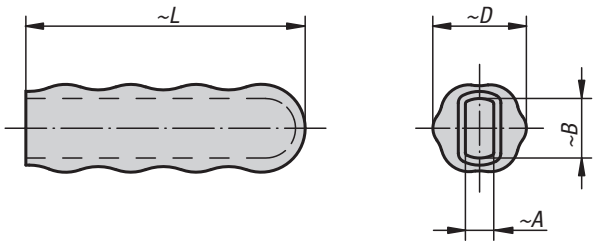
Sample order:
K0099.28

KIPP Plastic grips, round

Order No.	~D	~D1	~L
K0099.12	15	9,5	70
K0099.19	20	12,7	75
K0099.22	25	16	100
K0099.28	28	19	90
K0099.30	32	22	95
K0099.33	35	25	100

Plastic grips





Material:
Plastic

Version:
Orange, oil-resistant

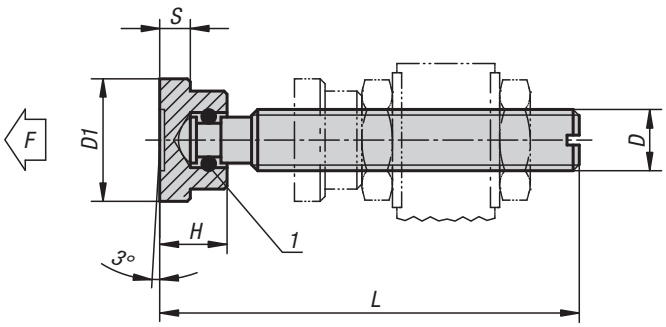
Sample order:
K0100.30

KIPP Plastic grips

Order No.	~A	~B	~D	~L
K0100.16	4	8	15	45
K0100.19	6	10	19	53
K0100.20	5	10	20	60
K0100.22	4	13	22	58
K0100.23	5	13	22	60
K0100.28	6	15	26	85
K0100.30	8	17	31	105
K0100.32	8	19	31	105
K0100.33	8	22	32	115
K0100.34	10	22	32	95
K0100.35	10	25	35	120

Thrust screws

with thrust pad





Material:
Screw and thrust pad steel.

Version:
Screw black.
Thrust pad black oxidised.
Screw pin and thrust pad case-hardened.

Sample order:
K0688.10X63

Drawing reference:
1) snap ring

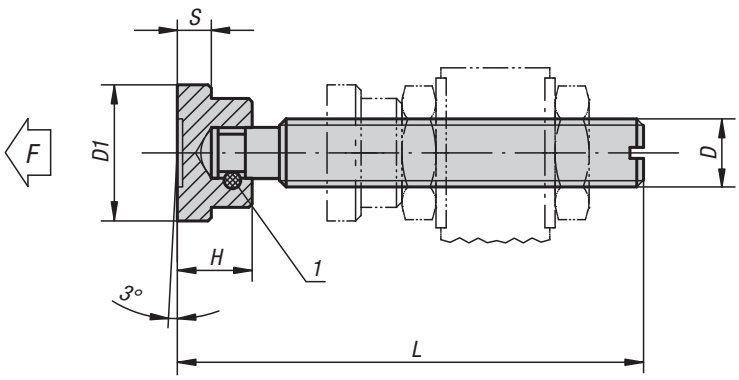
KIPP Thrust screws with thrust pad

Order No.	L	H	D	D1	S	F max. kN
K0688.06X	32/37/42/52	7	M6	12	2,5	1
K0688.08X	38/43/48/53/63	9	M8	16	4	2,3
K0688.10X	53,5/58,5/63,5/68,5/83,5	11	M10	20	5	3,5
K0688.12X	64,5/69,5/74,5/84,5/104,5	13	M12	25	6	4,6
K0688.16X	70,3/75,3/85,3/105,3/130,3	15	M16	32	7	6

Thrust screws

with thrust pad





Material:
Screw and thrust pad steel.

Version:
Screw black.
Thrust pad black oxidised.
Screw pin and thrust pad case-hardened.

Sample order:
K0689.10X84

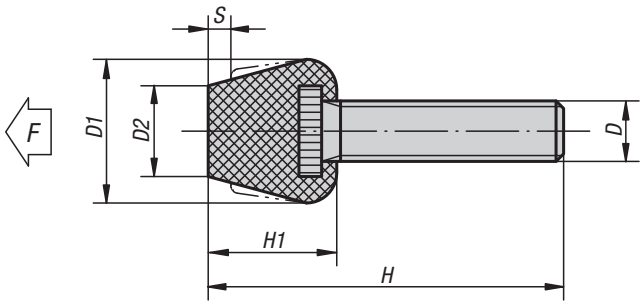
Drawing reference:
1) retaining pin

KIPP Thrust screws with thrust pad

Order No.	L	H	D	D1	S	F max. kN
K0689.06X52	52	7	M6	12	2,5	1
K0689.08X63	63	9	M8	16	4	2,3
K0689.10X84	84	11	M10	20	5	3,5
K0689.12X104	104	13	M12	25	6	4,6
K0689.14X105	105	14	M14	28	6	5
K0689.16X130	130	15	M16	32	7	6

Thrust screws neoprene

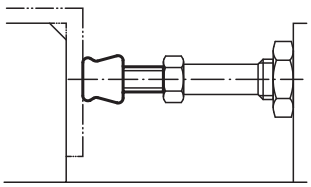




Material:
Screw steel.
Thrust pad neoprene.

Version:
Neoprene pad moulded onto screw end.
Screw copper-plated.

Sample order:
K0690.08



KIPP Thrust screws neoprene

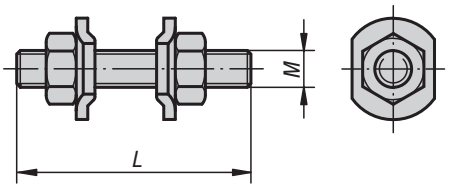
Order No.	H	H1	D	D1	D2	S max.	F max. N
K0690.08	63	17	M8 x 46	19	12	3	750
K0690.081	43	17	M8 x 26	19	12	3	750
K0690.10	80	19	M10 x 61	19	14	3,5	1000
K0690.101	55	19	M10 x 36	19	14	3,5	1000

Clamping spindles

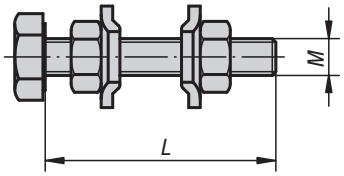
rigid



Ⓐ



Ⓑ



Material:
Steel. Spindle grade 5.8.

Version:
Spindle and nuts phosphated.
Flank washers galvanized and chromed.

Sample order:
K0101.06050

Note:
Version K0101.104020 without locking washer.

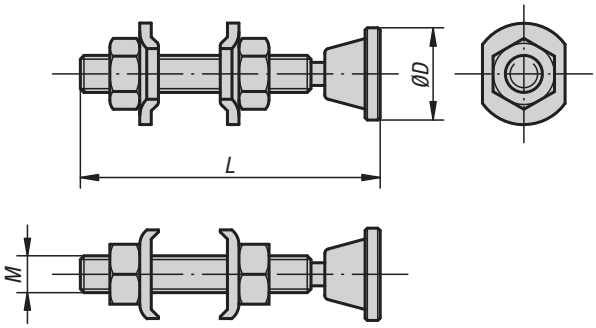
KIPP Clamping spindles, rigid

Order No.	Form	M	L
K0101.05025	A	M5	25
K0101.05035	A	M5	35
K0101.06050	A	M6	50
K0101.08065	A	M8	65
K0101.10085	A	M10	85
K0101.104020	B	M4	20
K0101.105020	B	M5	20
K0101.105035	B	M5	35
K0101.106025	B	M6	25
K0101.106050	B	M6	50
K0101.108040	B	M8	40
K0101.108060	B	M8	60
K0101.110050	B	M10	50
K0101.110080	B	M10	80

Clamping spindles

with swivel foot





Material:
Steel. Spindle grade 5.8.

Version:
Spindle, nuts and swivel foot phosphated.
Flank washers galvanized and chromed.

Sample order:
K0102.10085

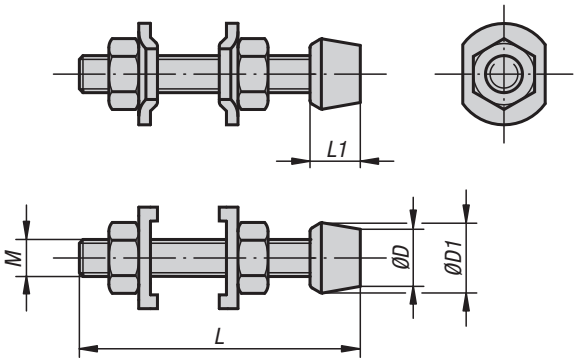
KIPP Clamping spindles with swivel foot

Order No.	M	L	D
K0102.05035	M5	35	12
K0102.06050	M6	50	12
K0102.08065	M8	65	20
K0102.10085	M10	85	20
K0102.12100	M12	100	25
K0102.16150	M16	150	45

Clamping spindles

with vulcanized neoprene thrust pad





Material:
Threaded spindle, washers and nuts steel.
Thrust pad neoprene.

Version:
Threaded spindle and washers galvanized.
Nuts black oxidised.

Sample order:
K0103.05038

Note:
The clamping spindle K0103.04032 is supplied with one nut.

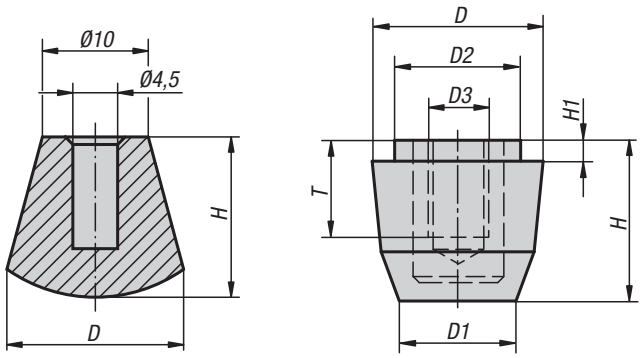
KIPP Clamping spindles with vulcanised neoprene thrust pad

Order No.	M	L	L1	D	D1
K0103.04032	M4	32	10	8	12
K0103.05038	M5	38	11	11,5	14
K0103.06045	M6	44	14	10	16
K0103.08065	M8	63	19	13	19
K0103.10085	M10	85	26	15	24
K0103.12100	M12	100	26	25	31

Thrust pads neoprene



K0104.45



Material:
Neoprene with steel insert

Version:
Black, oil-resistant.
Insert galvanized and chromed.

Sample order:
K0104.12

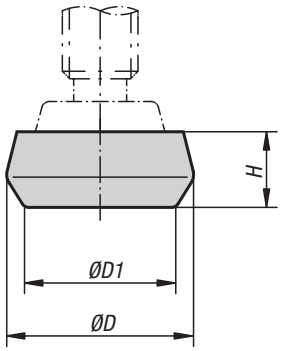
Note:
The neoprene thrust pad with order No. K0104.45 is supplied without steel insert or thread.

KIPP Thrust pads neoprene

Order No.	D	D1	D2	D3	H	H1	T	Suitable for article No.
K0104.45	12	-	-	-	10	-	-	K0101.05025 K0101.05035
K0104.06	15	10,3	10,8	M6	14,4	2	5,5	K0101.06050
K0104.08	19,5	13,5	15	M8	18	2,5	9	K0101.08065
K0104.10	23	16	17	M10	21	3	8	K0101.10085
K0104.12	25,5	18,5	21	M12	23,7	3	10,8	-

K0105

Plastic covers





Material:
Plastic

Version:
Black, oil-resistant

Sample order:
K0105.16

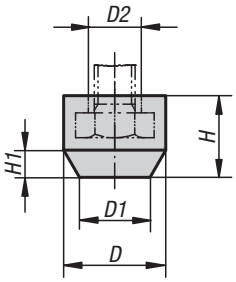
KIPP Plastic covers

Order No.	D	D1	H	Suitable for clamping spindle with swivel foot order No.
K0105.16	16	14	8	K0102.05035 K0102.06050
K0105.25	25	21	10	K0102.10085 K0102.08065
K0105.29	29	25	11	K0102.12100

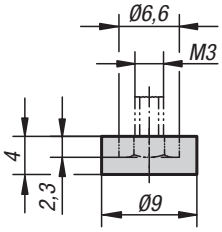
K0106

Protective caps

K0106.01 - K0106.05
K0106.07



K0106.06





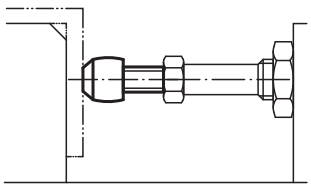
Material:
K0106.01 to K0106.05 and K0106.07: oil-resistant rubber; K0106.06: polyamide

Version:
Rubber black.
Polyamide white.

Sample order:
K0106.03

KIPP Protective caps

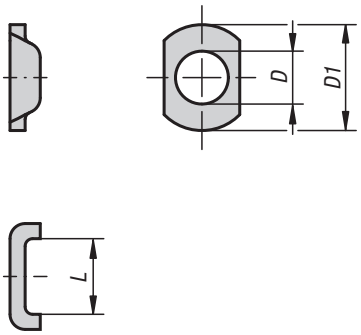
Order No.	D	D1	D2	H	H1	for screws
K0106.06	-	-	-	-	-	M3
K0106.01	11	7	5,5	8,5	4	M4
K0106.02	12,5	8	6,8	10	4	M5
K0106.03	15	10	8,5	12	4	M6
K0106.04	19	13	11,3	15	6	M8
K0106.07	23	15	14,5	18	7	M10
K0106.05	26	19	16,5	20	7	M12



Locking washers

for clamping spindles





Material:
Steel.

Version:
galvanized.

Sample order:
K0107.05

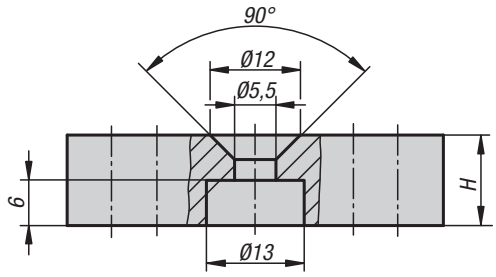
KIPP Locking washers for clamping spindles

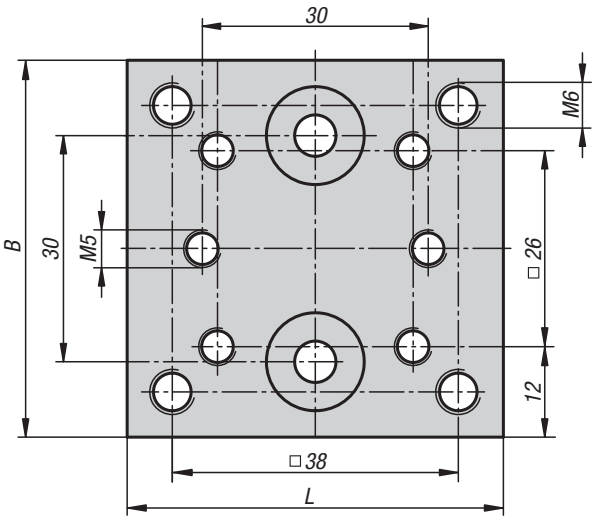
Order No.	D through hole for	D1	L
K0107.05	M5	13	9
K0107.051	M5	15	10
K0107.06	M6	18	12
K0107.08	M8	22	15
K0107.10	M10	26	20
K0107.12	M12	32	23
K0107.16	M16	35	27

Adapter block

aluminium







Material:
Aluminium.

Version:
natural colour anodized

Sample order:
K1210.5050

Note:
Adapter blocks are used as risers in combination with the round adapter plates K1211.
Fastening screws and nuts for assembling the block are supplied.

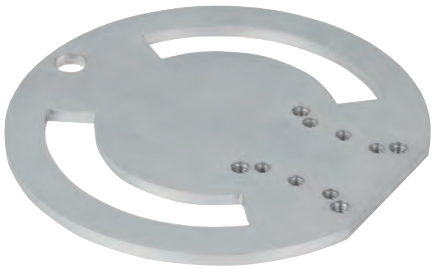


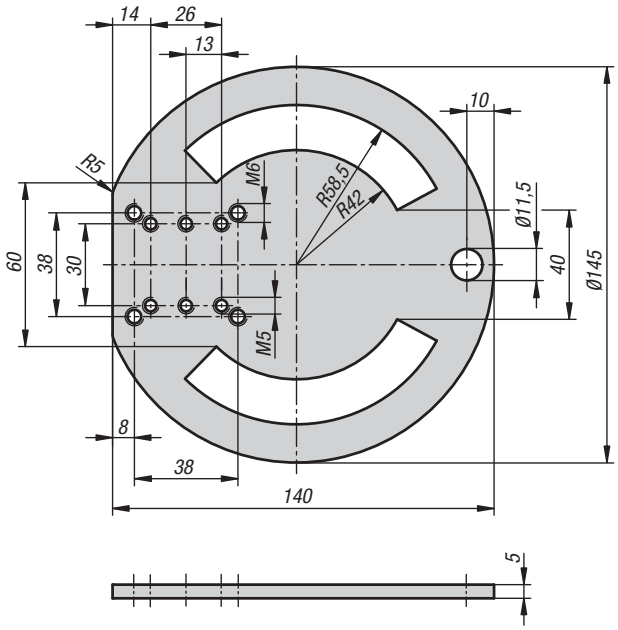
KIPP Adapter block, aluminium

Order No.	B	H	L
K1210.5050	50	12	50

Adapter plate

round





Material:
Steel.

Version:
Galvanized and chromed.

Sample order:
K1211.145

Note:
Adapter plates can be used in combination with toggle clamps. They enable toggle clamps to be positioned flexibly.
The adapter plates are clamped to the machine table using eccentric clamp modules.

Accessories:
Eccentric clamp modules K0754
Toggle clamp K….



KIPP Adapter plate, round

Order No.	Description
K1211.145	Adapter plate

Clamping elements



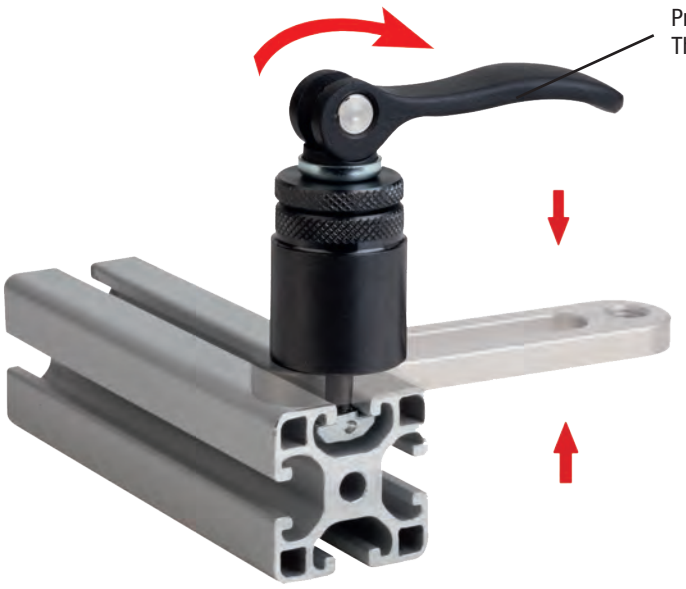
Notes

Mounting instructions for eccentric clamp module

Insert by pushing and rotating

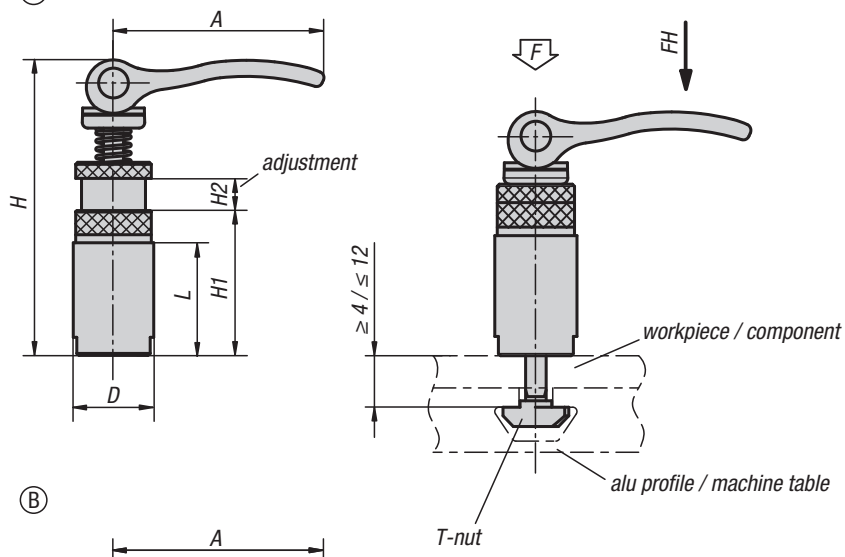


Swivel down to clamp

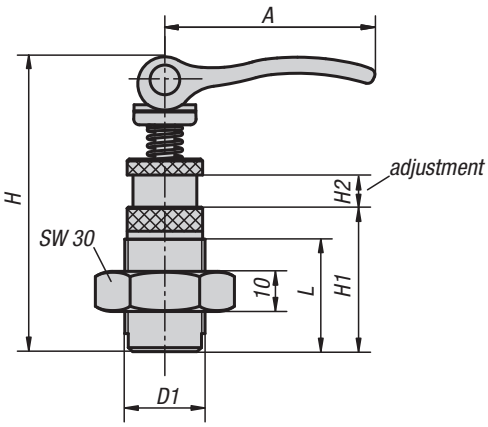


Eccentric clamp modules

Ⓐ



Ⓑ





Material:
Body steel.
Cam levers cast aluminium.

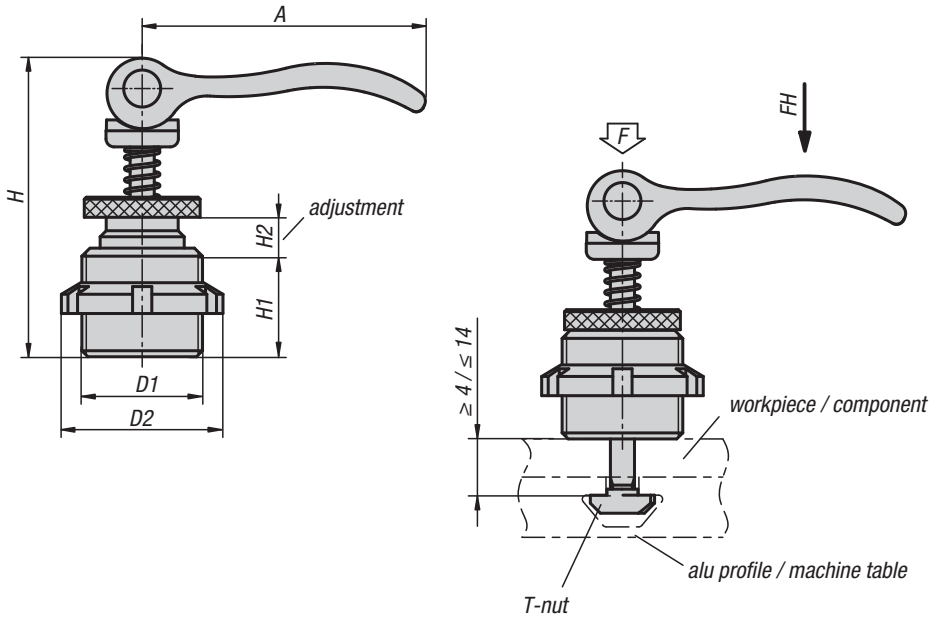
Version:
Body black oxidised.
T-nut galvanized.
Cam levers black powder coated.

Sample order:
K0754.00200808

Note:
The clamp module is inserted into the T-slot from above and secured using the cam lever, no other tools required.

Advantages:
The eccentric clamp modules can be used on conventional aluminium profile systems or on T-slot tables as stops, fasteners or clamps for components and workpieces.

Ⓔ



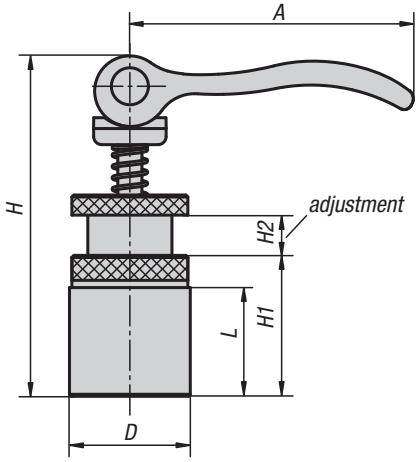


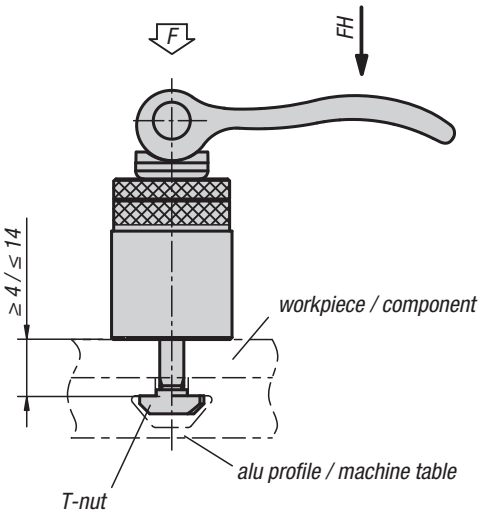
KIPP Eccentric clamp modules

Order No.	Form	D	D1	A	H	H1	H2	L	suitable for slot width	Clamping force F (kN)	Hand force FH N
K0754.00200808	A	20	-	52,3	73,5	36	8	28	8	2,5	100
K0754.10200808	B	-	M20x1,5	52,3	73,5	36	8	28	8	2,5	100

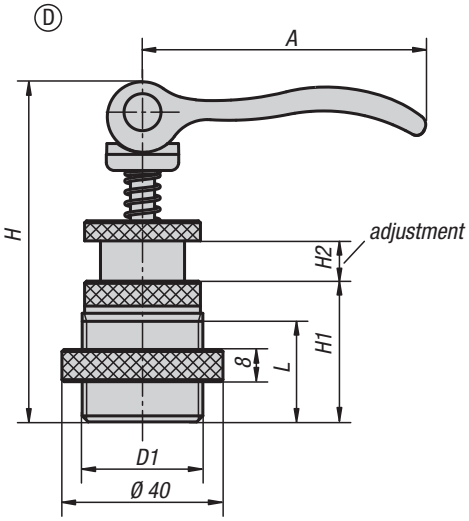
Eccentric clamp modules

Ⓒ





Ⓓ





KIPP Eccentric clamp modules

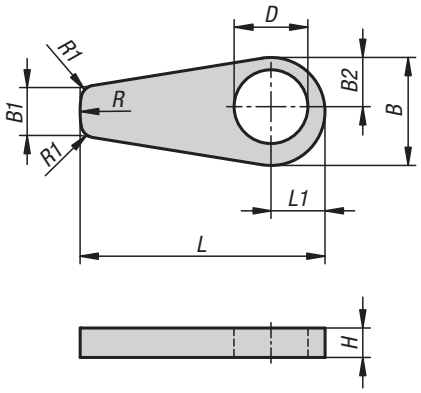
Order No.	Form	D	D1	A	H	H1	H2	L	suitable for slot width	Clamping force F (kN)	Hand force FH N
K0754.21150606	C	15	-	35	34	10	6	7	6	1,5	90
K0754.21201008	C	20	-	52	44	13	8	10	8	2,5	100
K0754.21301008	C	30	-	70,4	84,6	35	10	25	8	4	120
K0754.31301008	D	-	M30x2	70,4	84,6	35	10	25	8	4	120

Order No.	Form	D1	D2	A	H	H1	H2	suitable for slot width	Clamping force F (kN)	Hand force FH N
K0754.41150706	E	M15x1	25	35	39	14	7	6	1,5	90
K0754.41200908	E	M20x1	32	52	50	18	9	8	2,5	100

Cam clamp

for eccentric clamp modules





Material:
Steel.

Version:
Black oxidised.

Sample order:
K1212.2008

Note:
Cam clamp for indirect clamping in combination with eccentric clamp modules.

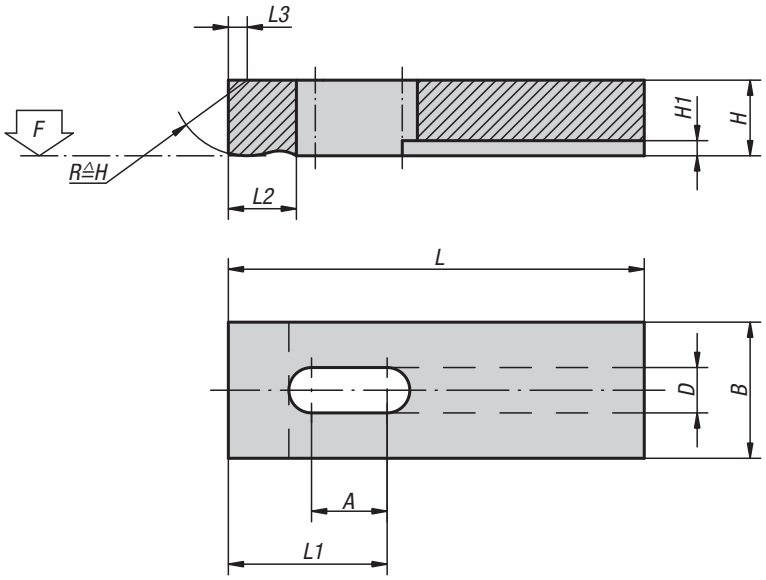
KIPP Cam clamp for eccentric clamp modules

Order No.	B	B1	B2	D	H	L	L1	R	R1
K1212.1506	22,1	10	10,05	15,1	6	50	11,05	22	3
K1212.2008	29,4	13,34	13,37	20,1	8	66,67	14,7	29,4	3
K1212.3010	44,1	20	20,05	30,1	10	100	22,05	44	3

Clamp straps

slotted heel



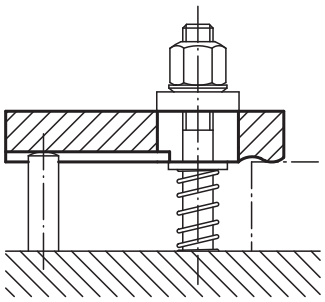


Material:
Carbon steel 1.1191

Version:
Black oxidised.

Sample order:
K0001.101

Note:
For suitable supports and rest pads see K0305 and K0306.



KIPP Clamp straps, slotted heel

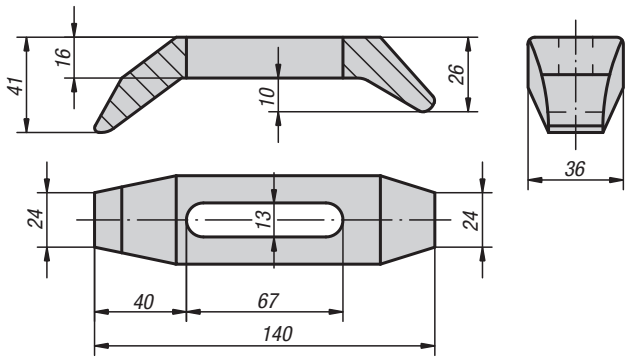
Order No.	A	B	D	H	H1	L	L1	L2	L3	F kN
K0001.05	8	12	5,5	8	3	32	14	8	1,2	3,42
K0001.06	10	16	7	10	3	40	17	10	1,6	4,82
K0001.08	12	20	9	12	4	50	22	12	2	8,77
K0001.10	16	25	11	16	4,5	63	28	16	2,5	13,9
K0001.12	20	32	14	20	5	80	35	20	3	20,2
K0001.14	25	40	16	25	6	100	44	25	4	27,6
K0001.16	42	50	18	30	6	160	73	32	5	37,8
K0001.20	52	60	22	30	8	200	92	40	6	58,8
K0001.051	13	12	5,5	8	3	50	23	8	1,2	3,42
K0001.061	17	16	7	10	3	63	29	10	1,6	4,82
K0001.081	21	20	9	12	4	80	37	12	2	8,77
K0001.101	26	25	11	16	4,5	100	46	16	2,5	13,9
K0001.121	33	32	14	20	5	125	58	20	3	20,2
K0001.141	42	40	16	30	6	160	74	25	4	27,6

Clamp straps

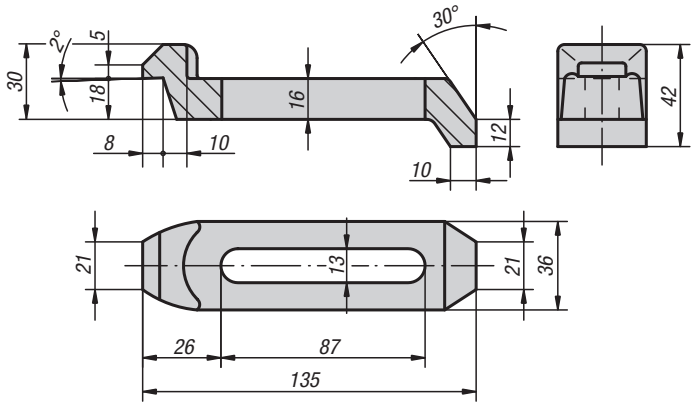
assorted, long slot



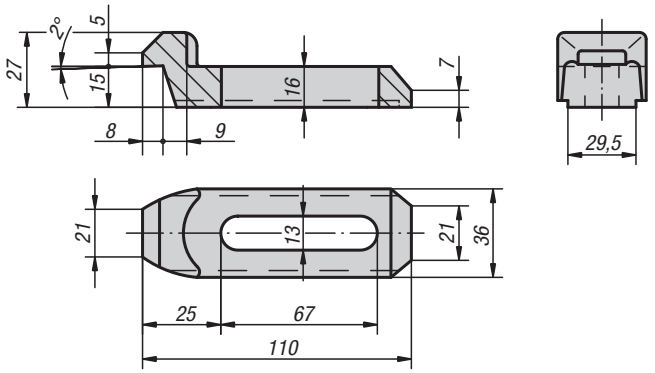
K0002.01 (0,5 kg)



K0002.05 (0,48 kg)



K0002.10 (0,35 kg)

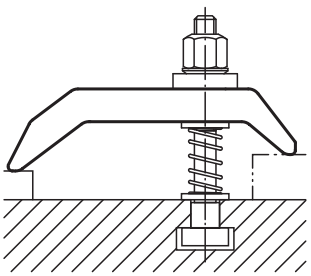


Material:
Carbon steel 1.7225

Version:
Tempered to 1000 N/mm², black oxidised.

Sample order:
K0002.10

Note:
These are the same clamp straps that are used with the adjustment units K0004.

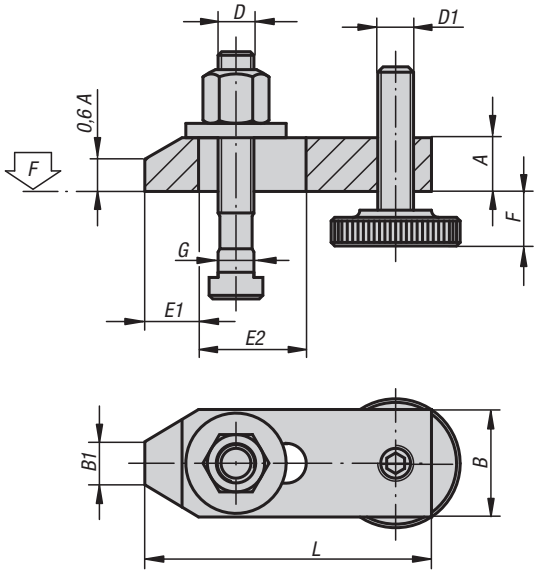


KIPP Clamp straps, assorted, long slot

Order No.	Description
K0002.01	Inverted strap
K0002.05	Invert/Gooseneck strap
K0002.10	Gooseneck strap

Clamp strap assemblies





Material:
Carbon steel.
Screws tempered to 8.8.

Version:
Clamp painted. Screws black oxidised.

Sample order:
K0003.1616

Note:
“F” is dependent on the depth of the DIN 650 slot.

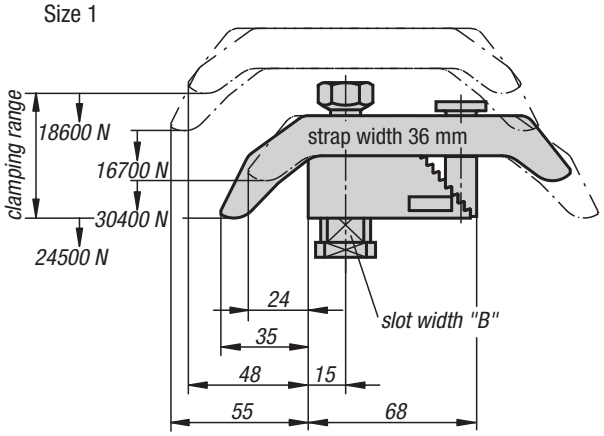
KIPP Clamp strap assemblies

Order No.	L	A	B	B1	E1	E2	F	G for T-slot	D	D1	F kN
K0003.1010	80	15	30	12	15	30	8-32	10	M10x80	M10	13,9
K0003.1212	100	20	40	14	21	40	10-40	12	M12x100	M12	20,2
K0003.1214	100	20	40	14	21	40	10-38	14	M12x100	M12	20,2
K0003.1616	125	25	50	18	26	45	13-49	16	M16x125	M16	37,8
K0003.1618	125	25	50	18	26	45	13-46	18	M16x125	M16	37,8
K0003.2020	160	30	60	22	30	60	16-65	20	M20x160	M20	58,8
K0003.2022	160	30	60	22	30	60	16-65	22	M20x160	M20	58,8

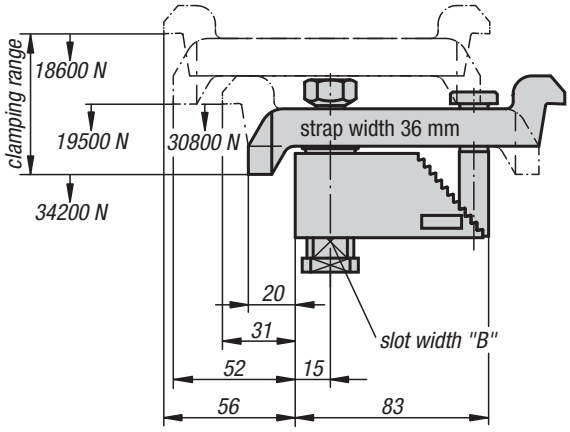
Clamp straps

with adjustment unit

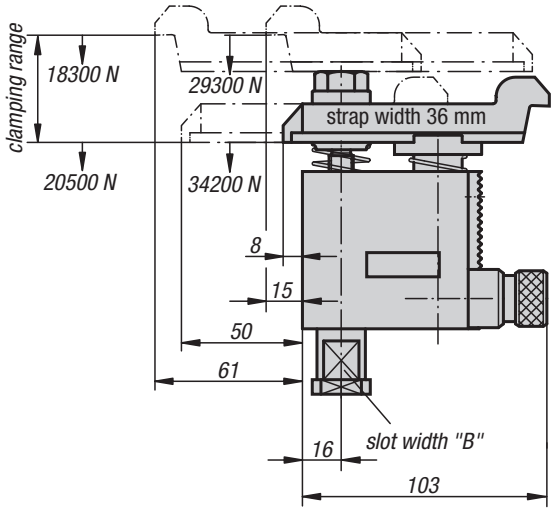
Size 1



Size 2



Size 3-5



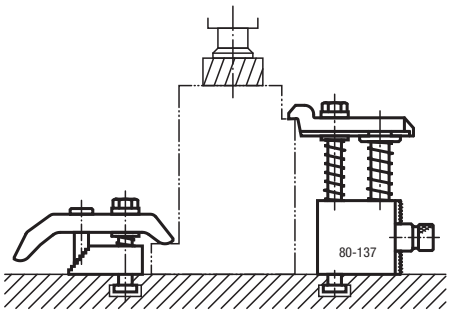


Material:
Base, ductile iron.
Clamp strap and clamping screw carbon steel.

Version:
Black oxidised.

Sample order:
K0004.40X16 (include slot width B)

Note:
These clamp strap modules are universal, flexible clamps constructed from individual components building a compact unit. There are no loose parts which first have to be altered for a clamping operation. The compact design allows these clamps to be placed close to the workpiece enabling the full area of the machine table to be used.

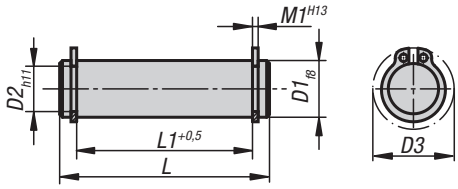


KIPP Clamp straps with adjustment unit

Order No.	Size	Clamp range	Slot width B DIN 650
K0004.10X	1	0-35	12/14/16/18
K0004.20X	2	25-85	12/14/16/18
K0004.30X	3	80-137	12/14/16/18
K0004.40X	4	125-224	12/14/16/18
K0004.50X	5	160-300	12/14/16/18

Hinge pins



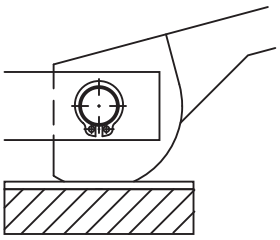


Material:
Carbon steel 1.0503.07

Version:
Tempered. Ground, bright.

Sample order:
K0007.08

Note:
For use with:
Cam levers K0008 and K0009.
Eye bolts K0396.
Clevis K0397.
Circlips supplied.



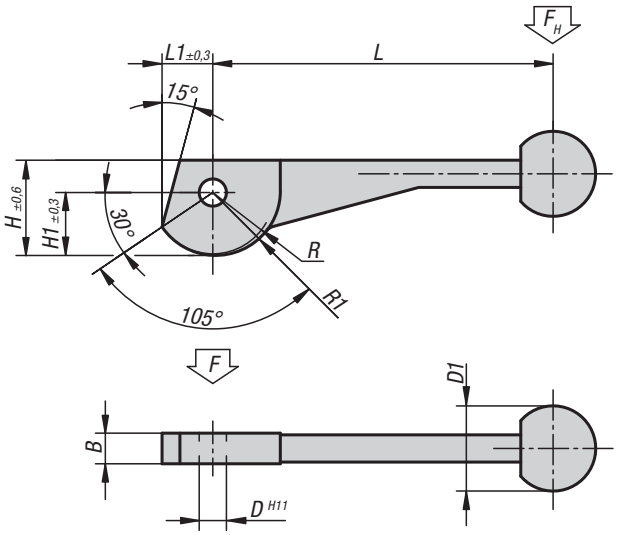
KIPP Hinge pins

Order No.	D1	L	L1	M1	D2	D3
K0007.05	5	18	13	0,7	4,8	10,7
K0007.06	6	22	17	0,8	5,7	12,2
K0007.08	8	30	25	0,9	7,6	15,2
K0007.081	8	20	16	0,9	7,6	15,2
K0007.082	8	27	21	0,9	7,6	15,2
K0007.10	10	37	32	1,1	9,6	17,6
K0007.101	10	25	20	1,1	9,6	17,6
K0007.102	10	35	29	1,1	9,6	17,6
K0007.12	12	46	40	1,1	11,5	19,6
K0007.121	12	31	25	1,1	11,5	19,6
K0007.122	12	37	31	1,1	11,5	19,6
K0007.14	14	44	37	1,1	13,4	22
K0007.16	16	48	41	1,1	15,2	24,4
K0007.18	18	58	51	1,3	17	26,8

Cam levers

single





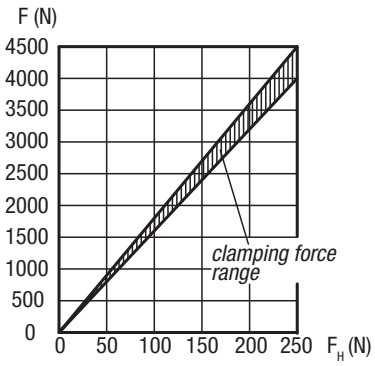
Material:
Carbon steel 1.7220.
Ball grip plastic.

Version:
Tempered and black oxidised.

Sample order:
K0008.10

Note:
Suitable hinge pin, see K0007.
The cam lever is an eccentric lever that moves along a logarithmic spiral. Its clamping properties are even over the entire contact surface of the cam.

Force diagram



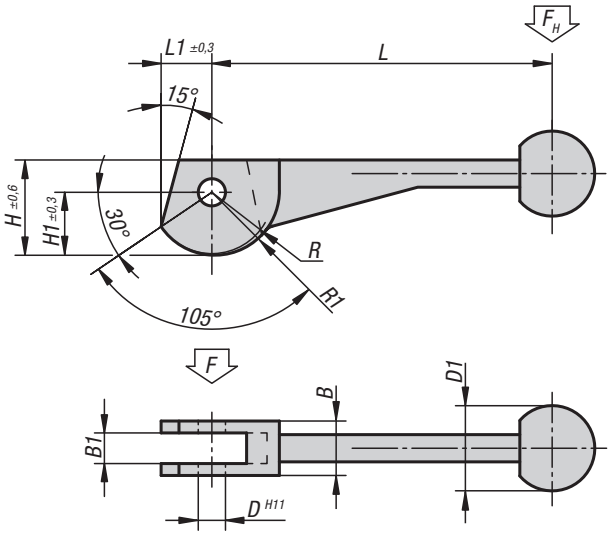
KIPP Cam levers, single

Order No.	L	L1	B	H	H1	D	D1	R	R1
K0008.08	104±2	14,9	9	28,2	18,7	8	25	17,2	19,2
K0008.10	123±2	18,6	12	34,8	23,3	10	30	21,5	24
K0008.12	146±3	24,3	14	43,8	30,3	12	30	28	31,2

Cam levers

double





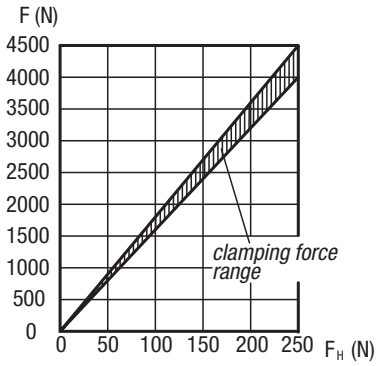
Material:
Carbon steel 1.7220.
Ball grip plastic.

Version:
Tempered and black oxidised.

Sample order:
K0009.12

Note:
Suitable hinge pin, see K0007.
The cam lever is an eccentric lever that moves along a logarithmic spiral. Its clamping properties are even over the entire contact surface of the cam.

Force diagram



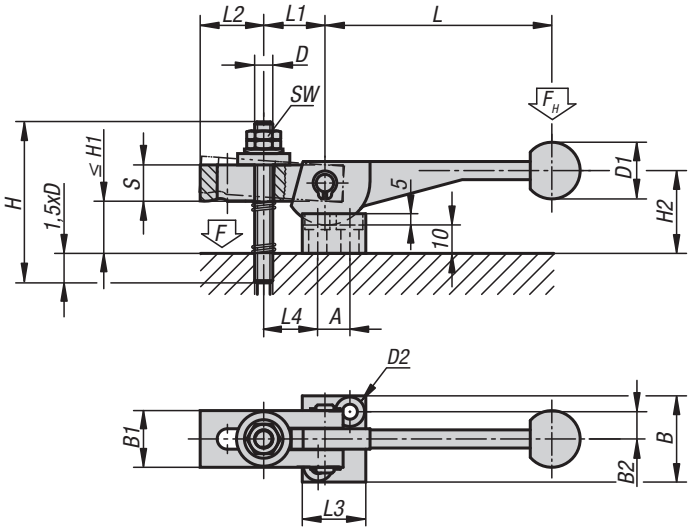
KIPP Cam levers, double

Order No.	L	L1	B	B1	H	H1	D	D1	R	R1
K0009.08	104±2	14,9	16	9	28,2	18,7	8	25	17,2	19,2
K0009.10	123±2	18,6	20	12	34,8	23,3	10	30	21,5	24
K0009.12	146±3	24,3	25	14	43,8	30,3	12	30	28	31,2

Cam clamps

single



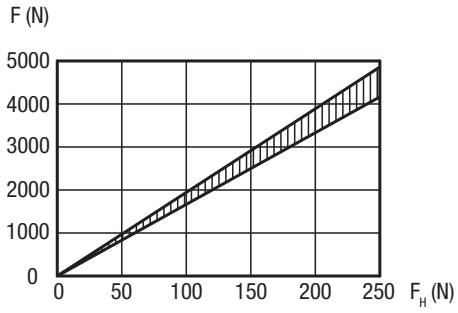


Material:
Cam lever carbon steel 1.7220.
Strap carbon steel 1.1191.

Version:
Black oxidised.

Sample order:
K0010.10

Force diagram

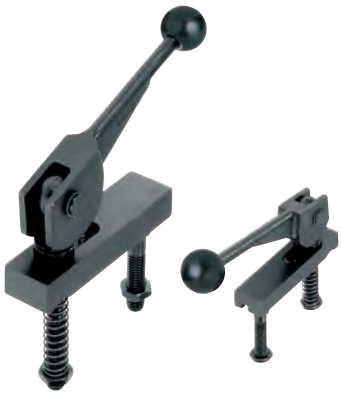


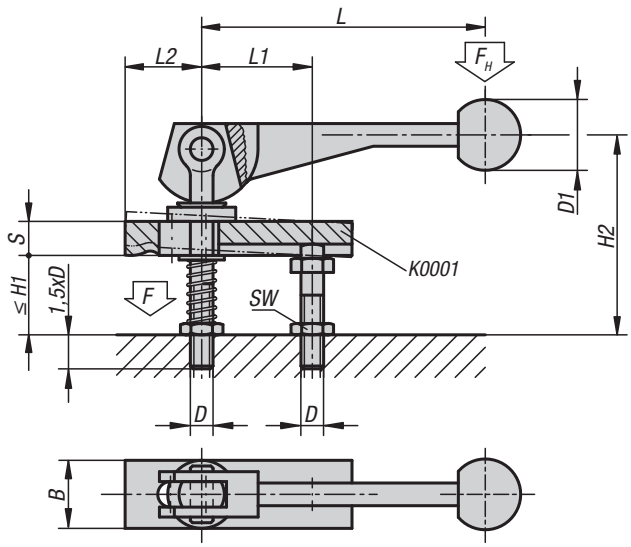
KIPP Cam clamps, single

Order No.	L	L1	L2	L3	L4	B	B1	B2	S	H	H1 max.	H2	D	D1	D2	A	SW
K0010.08	104±2	27	28	28	27	38	25	12	16	70	25	34	M8	25	7	14	13
K0010.10	123±2	34	36	32	35	41	32	13,5	20	80	24	40	M10	30	7	16	17
K0010.12	146±3	43	45	37	45	43	40	14,5	25	100	31	48	M12	30	7	19	19

Cam clamps

double



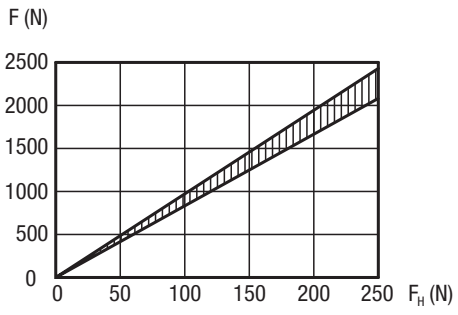


Material:
Cam lever carbon steel 1.7220.
Strap carbon steel 1.1191

Version:
Black oxidised.

Sample order:
K0011.12

Force diagram



KIPP Cam clamps, double

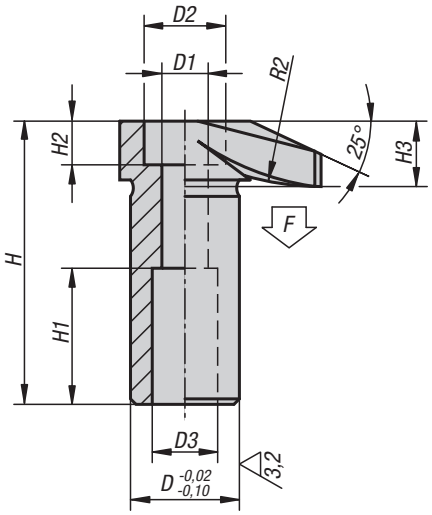
Order No.	L	L1	L2	B	S	H1 max.	H2	D	D1	SW
K0011.08	104±2	39	37	20	12	28	74	M8	25	13
K0011.10	123±2	49	46	25	16	39	92	M10	30	17
K0011.12	146±3	61	58	32	20	49	120	M12	30	19

Notes

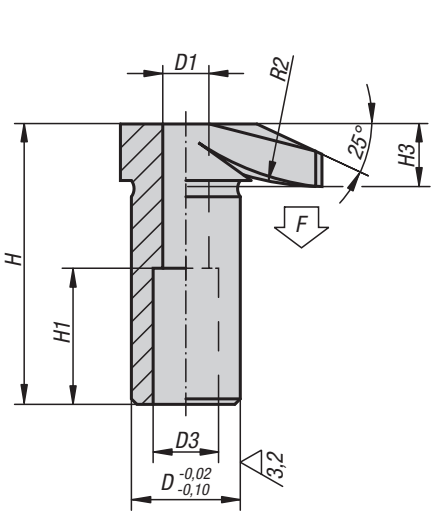
Hook clamps

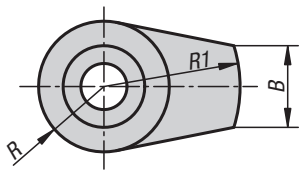


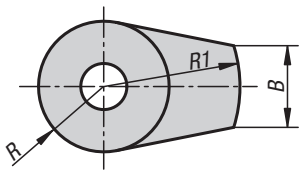
Ⓐ



Ⓑ



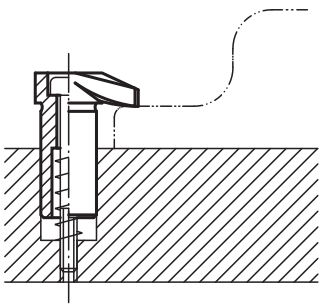




Material:
Carbon steel, tempered.

Version:
Black oxidised.

Sample order:
K0012.10



KIPP Hook clamps

Order No.	Form	D	D1	D2	D3	H	H1	H2	H3	B	R	R1	R2	F max. kN
K0012.06	A	16	6,5	11	10	42	20	6	10	11	9	20	30	4,8
K0012.08	A	20	8,5	15	12	52	25	8	12	15	12	25	50	8,8
K0012.10	A	25	10,5	18	14	66	32	10	16	17	14	32	60	13,9
K0012.12	A	32	12,5	20	17	83	40	12	20	20	18	40	80	20,2

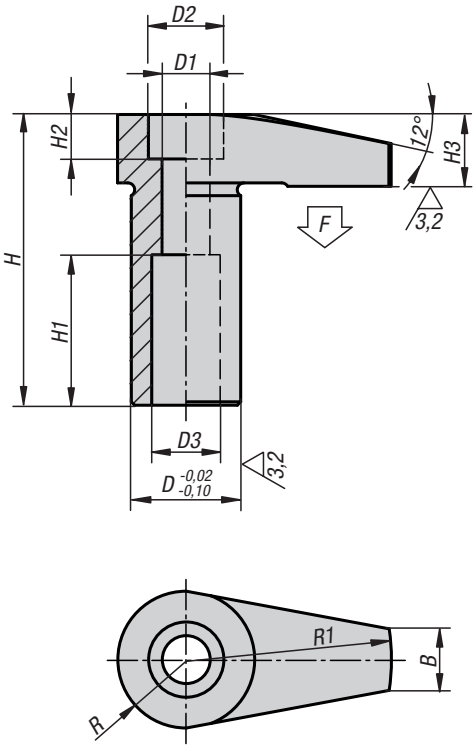
Order No.	Form	D	D1	D3	H	H1	H3	B	R	R1	R2	F max. kN
K0012.106	B	16	6,5	10	41,5	20	9,5	11	9	20	30	4,8
K0012.108	B	20	8,5	12	51,5	25	11,5	15	12	25	50	8,8
K0012.110	B	25	10,5	14	65,5	32	15,5	17	14	32	60	13,9
K0012.112	B	32	12,5	17	82,5	40	19,5	20	18	40	80	20,2

Hook clamps

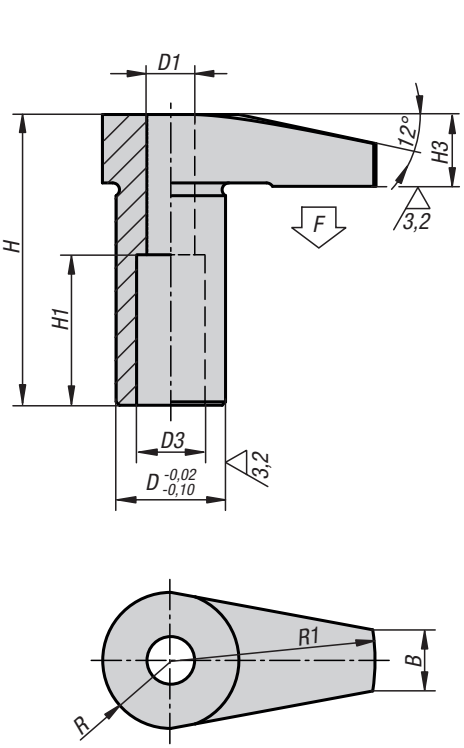
with long hook



Ⓒ



Ⓓ



Material:
Carbon steel, tempered.

Version:
Black oxidised.

Sample order:
K0012.406

KIPP Hook clamps with long hook

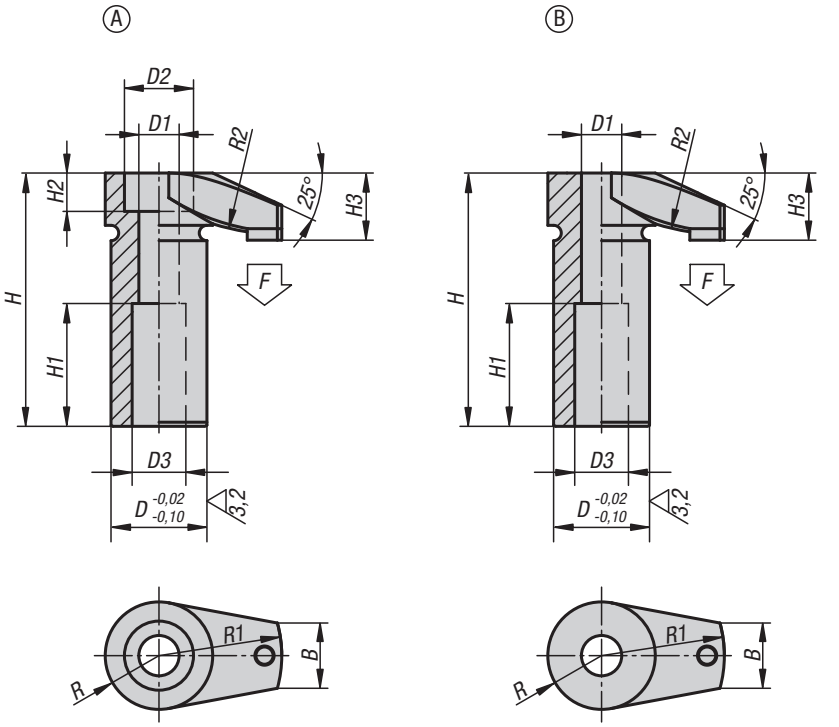
Order No.	Form	B	D	D1	D2	D3	H	H1	H2	H3	R	R1	F max. kN
K0012.406	C	9	16	7	11	10	42,5	22	6	10,5	10	30	4,5
K0012.408	C	12	20	8,6	15	12	52,5	25	8	12,5	12,5	40	6,5
K0012.410	C	18	25	10,6	18	14	66,5	32	10	16,5	16	50	11,8

Order No.	Form	B	D	D1	D3	H	H1	H3	R	R1	F max. kN
K0012.506	D	9	16	7	10	42,5	22	10,5	10	30	4,5
K0012.508	D	12	20	8,6	12	52,5	25	12,5	12,5	40	6,5
K0012.510	D	18	25	10,6	14	66,5	32	16,5	16	50	11,8

Hook clamps

with soft pad





Material:
Carbon steel.
Soft pad POM or polyurethane 99 Shore A.

Version:
Tempered and black oxidised.

Sample order:
K0012.206

Note:
The pressed in plastic inserts offer optimal damage protection for sensitive workpiece faces.

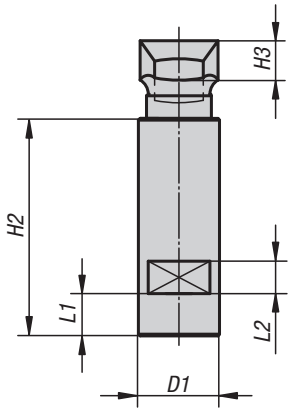
KIPP Hook clamps with soft pad

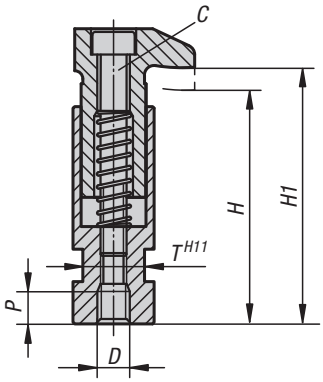
Order No.	Form	Component material	D	D1	D2	D3	H	H1	H2	H3	B	R	R1	R2	F max. kN
K0012.206	A	polyacetal	16	6,5	11	10	42	20	6	10,5	11	9	20	30	4,8
K0012.208	A	polyacetal	20	8,5	15	12	52	25	8	13,5	15	12	25	50	8,8
K0012.210	A	polyacetal	25	10,5	18	14	66	32	10	17,5	17	14	32	60	11,6
K0012.212	A	polyacetal	32	12,5	20	17	83	40	12	21	20	18	40	80	18,8
K0012.2106	B	polyacetal	16	6,5	-	10	41,5	20	-	10	11	9	20	30	4,8
K0012.2108	B	polyacetal	20	8,5	-	12	51,5	25	-	13	15	12	25	50	8,8
K0012.2110	B	polyacetal	25	10,5	-	14	65,5	32	-	17	17	14	32	60	11,6
K0012.2112	B	polyacetal	32	12,5	-	17	82,5	40	-	21	20	18	40	80	18,8
K0012.306	A	polyurethane	16	6,5	11	10	42	20	6	10,5	11	9	20	30	4,8
K0012.308	A	polyurethane	20	8,5	15	12	52	25	8	13,5	15	12	25	50	8,8
K0012.310	A	polyurethane	25	10,5	18	14	66	32	10	17,5	17	14	32	60	11,6
K0012.312	A	polyurethane	32	12,5	20	17	83	40	12	21	20	18	40	80	18,8
K0012.3106	B	polyurethane	16	6,5	-	10	41,5	20	-	10	11	9	20	30	4,8
K0012.3108	B	polyurethane	20	8,5	-	12	51,5	25	-	13	15	12	25	50	8,8
K0012.3110	B	polyurethane	25	10,5	-	14	65,5	32	-	17	17	14	32	60	11,6
K0012.3112	B	polyurethane	32	12,5	-	17	82,5	40	-	21	20	18	40	80	18,8

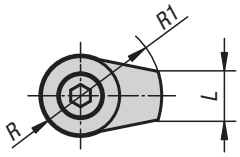
Hook clamps

with collar









Material:
Carbon steel.

Version:
Tempered and black oxidised.

Sample order:
K0013.06

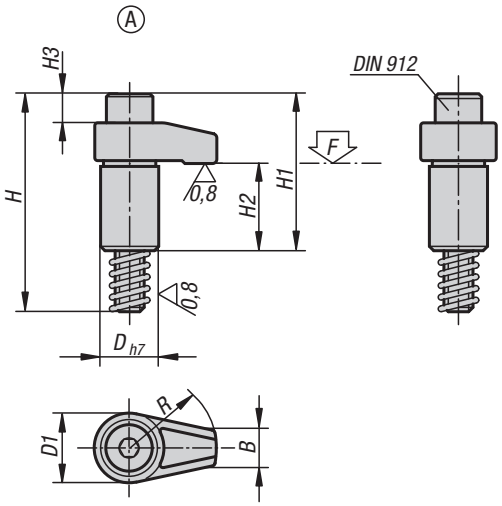
KIPP Hook clamps with collar

Order No.	C	D	D1	H	H1	H2	H3	L	L1	L2	P	R	R1	T	Clamping force kN
K0013.06	M6	M6	20	56	60	53	10	11	9	8	8	9	20	17	4,82
K0013.08	M6	M8	20	56	60	53	10	11	9	8	8	9	20	17	8,77
K0013.10	M8	M10	25	72	79	67	12	15	13	10	10	12	25	19	13,9
K0013.12	M10	M12	32	88	96	82	16	17	18	12	12	14	32	27	20,2
K0013.16	M12	M16	40	109	118	102	20	20	22	12	16	18	40	32	37,8

Hook clamps ground

Form A/B/C



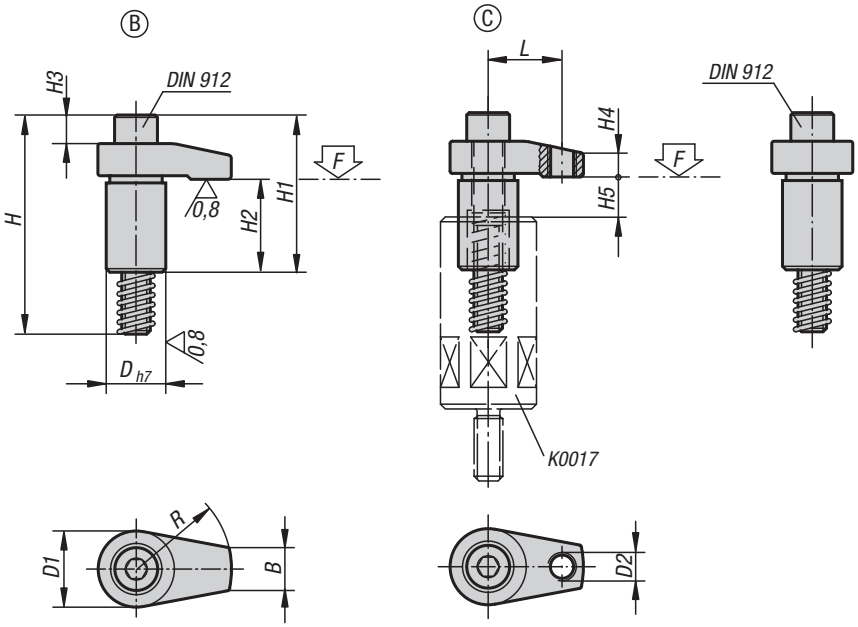


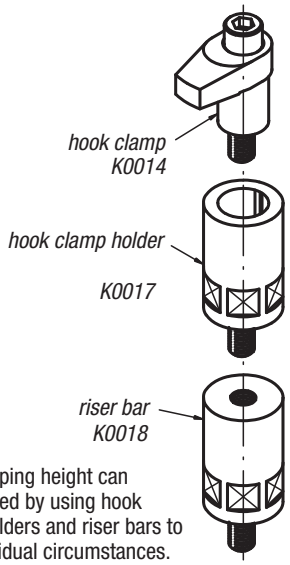
Material:
Carbon steel, tempered.

Version:
Black oxidised. Shaft OD ground.

Sample order:
K0014.216040

Note:
The stated clamping forces (F max.) and tightening torques are valid within the stated clamping ranges (H5).





The clamping height can be adjusted by using hook clamp holders and riser bars to suit individual circumstances.

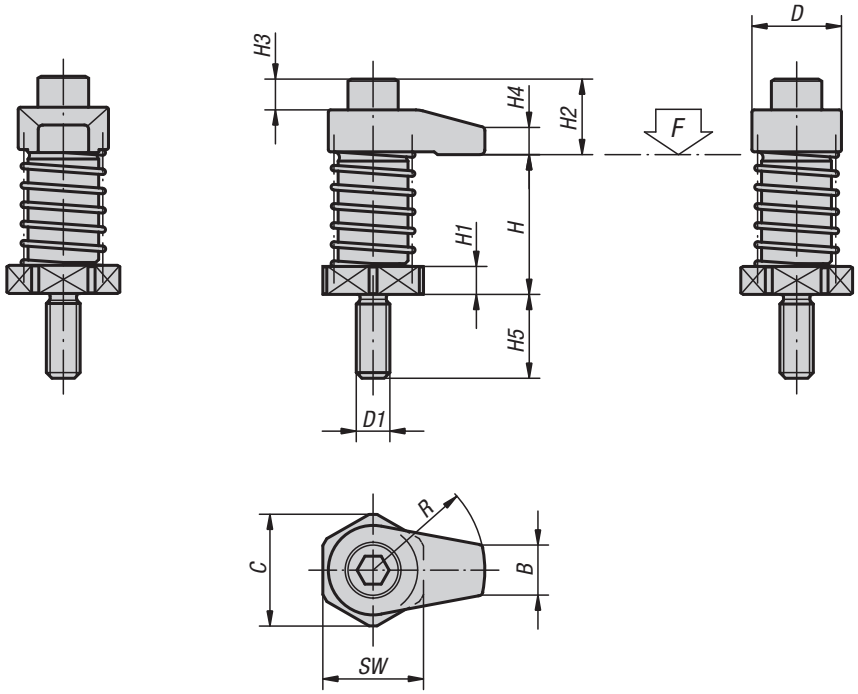
KIPP Hook clamps, ground, Form A/B/C

Order No.	Form	D	D1	D2	H	H1	H2	H3	H4	H5 max. clamping range	B	L	R	Socket head screw DIN 912	Tightening torque max. Nm	F max. kN
K0014.110030	A	20	25	-	75	54	30	9	10	12	12	-	30	M10x65	37,2	13
K0014.110040	A	20	25	-	75	54	30	9	10	12	12	-	40	M10x65	31,4	9,8
K0014.208020	B	18	22	-	58	37	23	2	7	10	10	-	20	M8x50	37,2	13,6
K0014.208025	B	18	22	-	58	37	23	2	7	10	10	-	25	M8x50	32,3	10,9
K0014.208030	B	18	22	-	58	37	23	2	7	10	10	-	30	M8x50	29,4	9
K0014.212040	B	25	32	-	92	66	39	11	12	15	18	-	40	M12x80	58,8	17,5
K0014.212050	B	25	32	-	92	68	39	11	12	15	18	-	50	M12x80	49	14
K0014.212060	B	25	32	-	92	68	39	11	12	15	18	-	60	M12x80	45,1	11,6
K0014.216040	B	32	36	-	101	75	39	15	15	15	22	-	40	M16x85	166,6	37,9
K0014.216050	B	32	36	-	101	75	39	15	15	15	22	-	50	M16x85	147	30,4
K0014.216060	B	32	36	-	101	75	39	15	15	15	22	-	60	M16x85	127,4	25,2
K0014.312140	C	25	32	M12	92	66	39	11	10	15	18	31	40	M12x80	58,8	22,6
K0014.312150	C	25	32	M12	92	68	39	11	13	15	18	38	50	M12x80	49	18,5
K0014.312160	C	25	32	M12	92	68	39	11	13	15	18	46	60	M12x80	45,1	15,2
K0014.316150	C	32	36	M12	101	75	39	15	16	15	22	38	50	M16x85	147	38
K0014.316160	C	32	36	M12	101	75	39	15	16	15	22	46	60	M16x85	127,4	33

Hook clamps

with collar





Material:
Hook clamps and hook clamp holders carbon steel, tempered.

Version:
Black oxidised.

Sample order:
K0015.12060

Note:
Hook clamps with collar can be screwed directly into grid holes etc. without counterbore.
For suitable riser elements, see riser bars K0018.

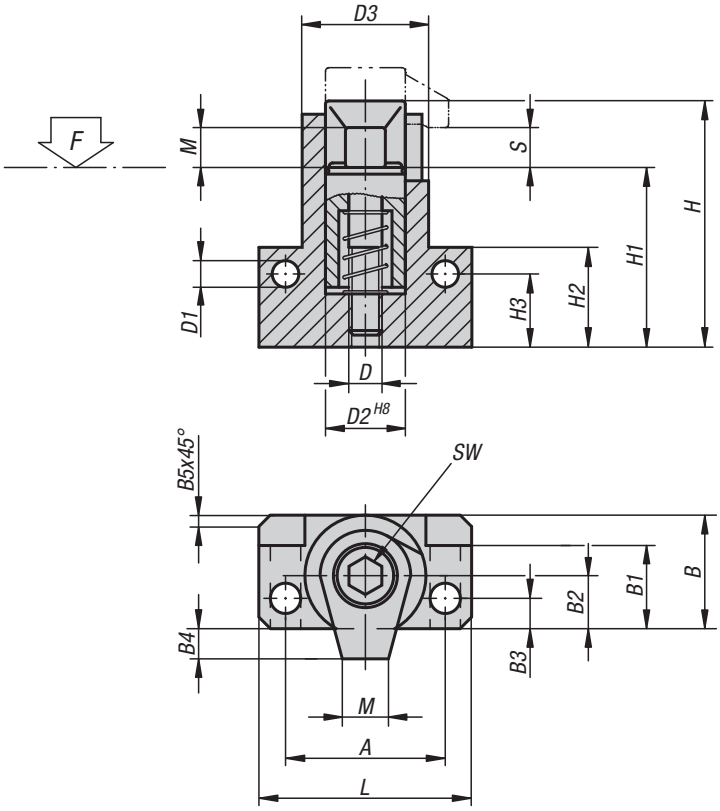
KIPP Hook clamps with collar

Order No.	D	D1	H clamping range	H1	H2	H3	H4	H5	B	C	R	SW	Tightening torque max. Nm	F max. kN
K0015.08020	22	M8	35 - 45	6	14	2	7	19	10	25	20	22	20	7,9
K0015.08025	22	M8	35 - 45	6	14	2	7	19	10	25	25	22	20	7,3
K0015.08030	22	M8	35 - 45	6	14	2	7	19	10	25	30	22	20	6,7
K0015.08120	22	M8	45 - 55	16	14	2	7	19	10	25	20	22	20	7,9
K0015.08125	22	M8	45 - 55	16	14	2	7	19	10	25	25	22	20	7,3
K0015.08130	22	M8	45 - 55	16	14	2	7	19	10	25	30	22	20	6,7
K0015.12040	32	M12	50 - 65	10	27	11	10	30	18	40	40	36	45	13,5
K0015.12050	32	M12	50 - 65	10	29	11	12	30	18	40	50	36	45	12,6
K0015.12060	32	M12	50 - 65	10	29	11	12	30	18	40	60	36	45	11,7
K0015.12140	32	M12	65 - 80	25	27	11	10	30	18	40	40	36	45	13,5
K0015.12150	32	M12	65 - 80	25	29	11	12	30	18	40	50	36	45	12,6
K0015.12160	32	M12	65 - 80	25	29	11	12	30	18	40	60	36	45	11,7
K0015.16040	36	M16	50 - 65	10	36	15	15	30	22	40	40	36	60	13,4
K0015.16050	36	M16	50 - 65	10	36	15	15	30	22	40	50	36	60	12,4
K0015.16060	36	M16	50 - 65	10	36	15	15	30	22	40	60	36	60	12
K0015.16140	36	M16	65 - 80	25	36	15	15	30	22	40	40	36	60	13,4
K0015.16150	36	M16	65 - 80	25	36	15	15	30	22	40	50	36	60	12,4
K0015.16160	36	M16	65 - 80	25	36	15	15	30	22	40	60	36	60	12

Hook clamps

with mounting bracket

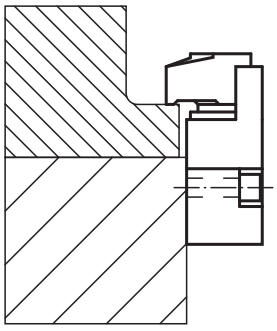




Material:
Hook clamps and clamping screw carbon steel, tempered.

Version:
Black oxidised.

Sample order:
K0016.12

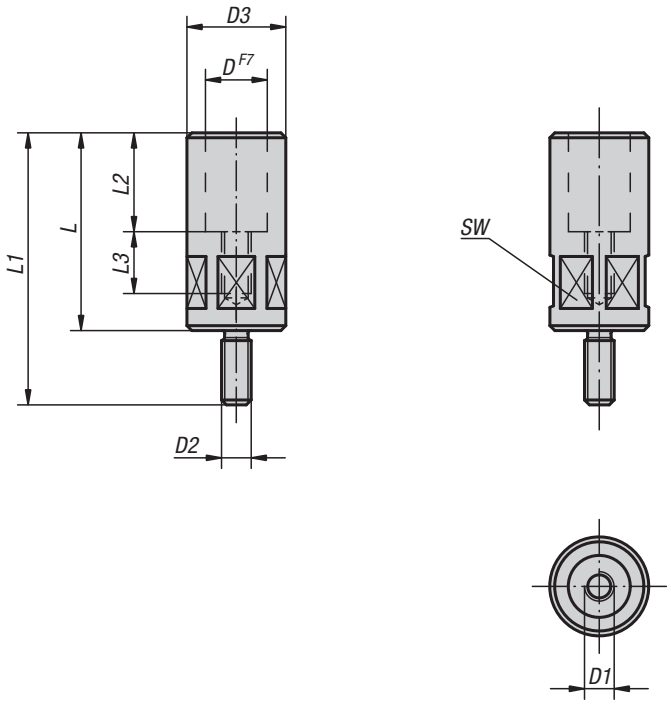


KIPP Hook clamps with mounting bracket

Order No.	D	D1	D2	D3	A	B	B1	B2	B3	B4	B5	H	H1	H2	H3	L	M	S	SW	Tightening torque max. Nm	F max. kN
K0016.08	M8	6,4	20	28	38	26	19,5	12	6	6	2,5	62	47,5	25	18	50	10	4	6	30	17
K0016.10	M10	8,4	24	34	48	31	22,5	14	7,5	9	3	74	57,5	30	21	64	12	5	8	50	18
K0016.12	M12	10,5	28	40	55	36,5	26	16,5	9	10,5	3,5	87	67	35	24	75	15	5	10	60	20
K0016.16	M16	12,8	34	48	65	43,5	31	19,5	10	16,5	4	112	87	45	32	88	20	5	14	120	24

Hook clamp holders





Material:
Carbon steel.

Version:
Black oxidised.

Sample order:
K0017.12080

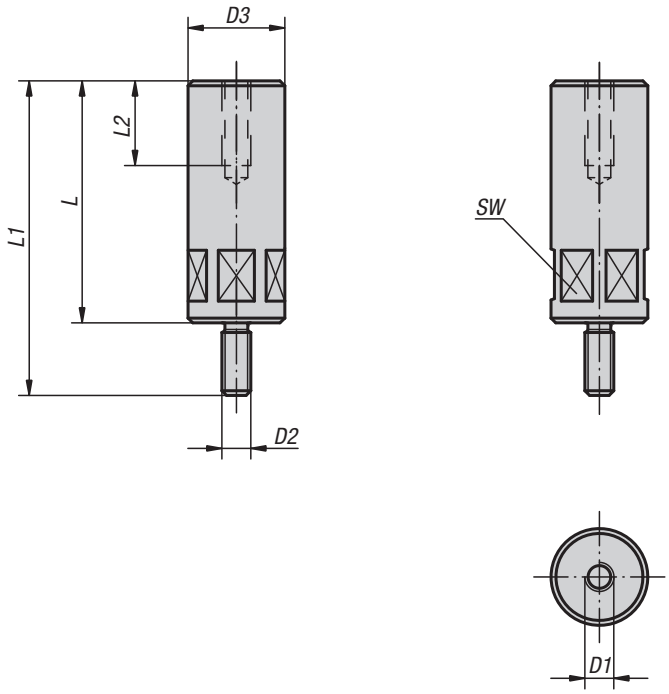
Note:
Hook clamp holders are for holding and raising hook clamps.

KIPP Hook clamp holders

Order No.	D	D1	D2	D3	L	L1	L2	L3	SW	Tightening torque max. Nm
K0017.08055	18	M8	M8	24	55	74	25	20	22	29,4
K0017.10063	20	M10	M12	32	63	93	30	21	30	39,2
K0017.10080	20	M10	M12	32	80	110	30	23	30	39,2
K0017.12080	25	M12	M12	40	80	110	40	25	36	49
K0017.12100	25	M12	M12	40	100	130	40	28	36	49
K0017.16080	32	M16	M16	50	80	110	40	25	46	78,4
K0017.16100	32	M16	M16	50	100	130	40	28	46	78,4

Riser bars





Material:
Carbon steel.

Version:
Black oxidised.

Sample order:
K0018.16050

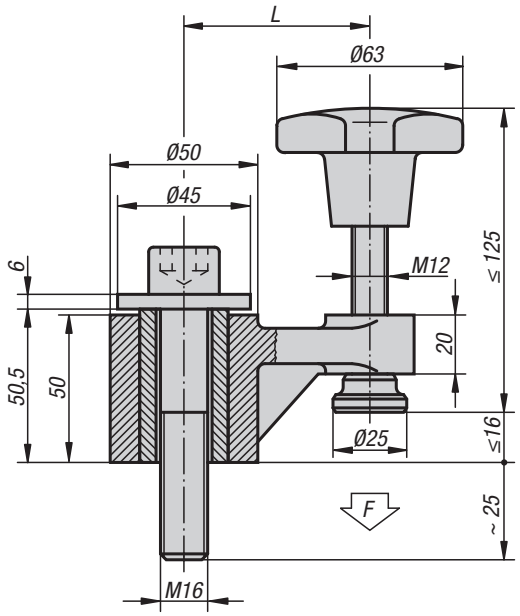
Note:
The height of the hook clamps and hook clamp holders can be raised using these riser bars.

KIPP Riser bars

Order No.	D1	D2	D3	L	L1	L2	SW	Tightening torque max. Nm
K0018.08032	M8	M8	24	32	51	20	22	29,4
K0018.08040	M8	M8	24	40	59	20	22	29,4
K0018.08050	M8	M8	24	50	69	20	22	29,4
K0018.08065	M8	M8	24	65	84	20	22	29,4
K0018.12050	M12	M12	40	50	80	35	36	49
K0018.12065	M12	M12	40	65	95	35	36	49
K0018.12080	M12	M12	40	80	110	35	36	49
K0018.12100	M12	M12	40	100	130	35	36	49
K0018.12125	M12	M12	40	125	155	35	36	49
K0018.12160	M12	M12	40	160	190	35	36	49
K0018.12200	M12	M12	40	200	230	35	36	49
K0018.16050	M16	M16	50	50	80	35	46	78,4
K0018.16065	M16	M16	50	65	95	35	46	78,4
K0018.16080	M16	M16	50	80	110	35	46	78,4
K0018.16100	M16	M16	50	100	130	35	46	78,4
K0018.16125	M16	M16	50	125	155	35	46	78,4
K0018.16160	M16	M16	60	160	190	35	55	78,4
K0018.16200	M16	M16	60	200	230	35	55	78,4

Swing clamps

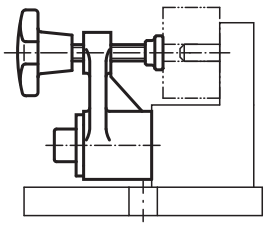




Material:
Body malleable iron.
Sleeve carbon steel 1.1191.
Screw carbon steel 1.1181.
Thrust pad mild steel 1.0301.

Version:
Painted.
Thrust pads case-hardened.

Sample order:
K0019.01



KIPP Swing clamps

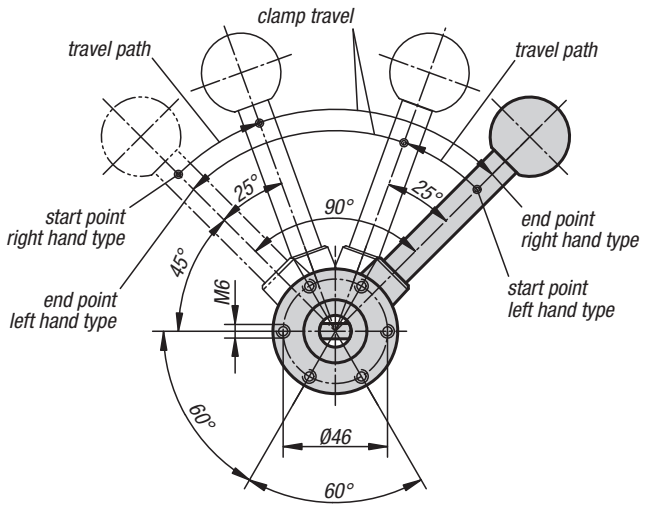
Order No.	L	F kN
K0019.01	63	5
K0019.02	100	3

Notes

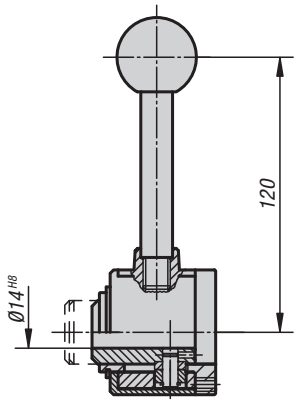
Clamping element “actima”



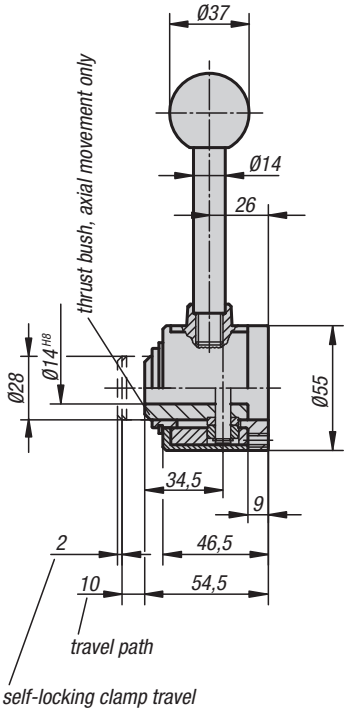
View from below



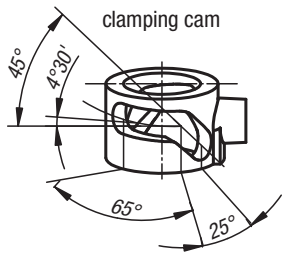
drilled through

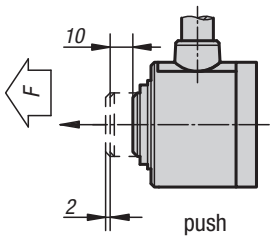


with transverse axis in bore

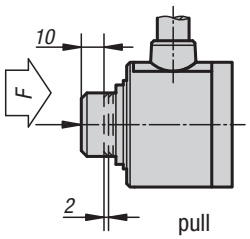


clamping cam

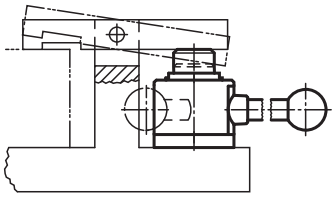




push



pull



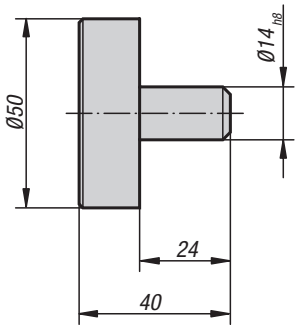
Material:
Steel.
Housing thermoplastic.
Ball knob Duroplast PF 31.
Accessories steel.

Version:
Black oxidised.
Housing black.
Ball knob, red.
Accessories black oxidised.

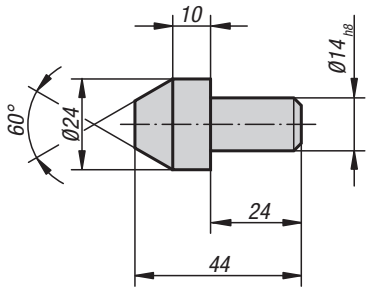
Sample order:
K0020.10

Note:
The travel path is 10 mm. Self-locking occurs in any position within only 2 mm of clamp travel. Thus workpieces with tolerances of up to 1.5 mm can be safely clamped. The actima clamping device can be fitted in any horizontal or vertical position.
Standard parts allow further applications. They are available as optional accessories.
All parts of the cam system subject to heavy loads are case-hardened (pressure sleeve and accessories only if specified).
The maximum permissible clamping force is approximately 4905 N.

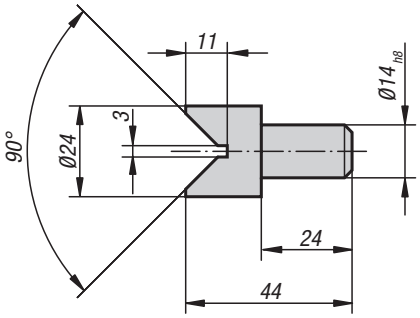
Clamping element “actima”



plate



conus



prism

KIPP “actima” clamping element with transverse axis in bore

Order No.	Version
K0020.10	right-hand / thrust
K0020.15	right-hand / pull
K0020.20	left-hand / thrust
K0020.25	left-hand / pull

KIPP “actima” clamping element with drilled through bore

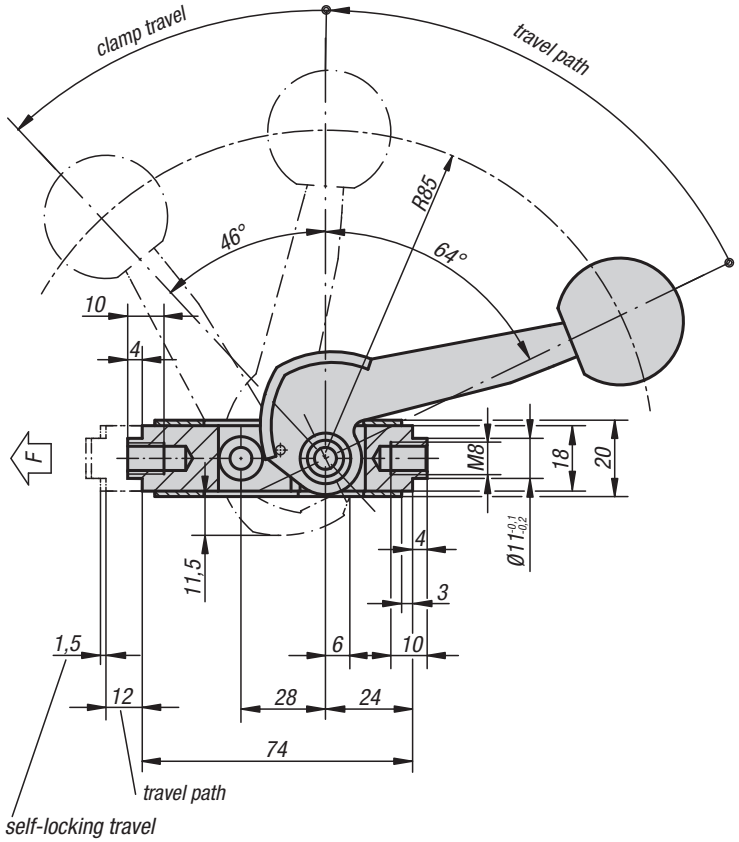
Order No.	Version
K0020.30	right-hand / thrust
K0020.35	right-hand / pull
K0020.40	left-hand / thrust
K0020.45	left-hand / pull

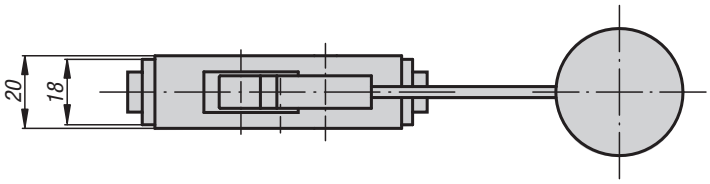
KIPP “actima” accessories

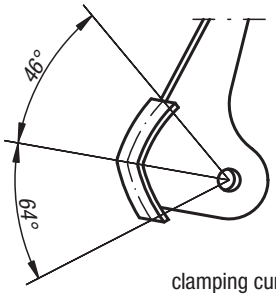
Order No.	Description
K0020.02	Plate
K0020.03	Conus
K0020.04	Prism

Clamping element “arness”









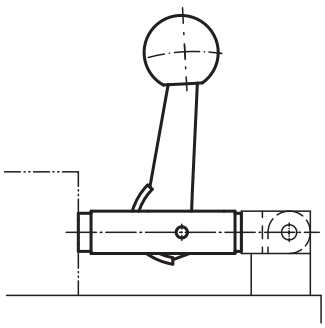
clamping curve

Material:
Steel.
Ball knob Duroplast PF 31

Version:
Housing painted silver-grey hammertone.
All other parts and accessories black oxidised.
Ball knob red.

Sample order:
K0021.01

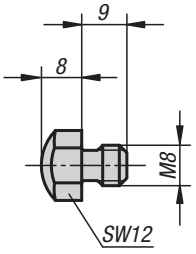
Note:
The travel path is 12 mm. Self-locking occurs in any position within only 1.5 mm of clamp travel, allowing workpieces with tolerances of up to 1 mm to be securely clamped. The arness clamping element can be fitted in any horizontal or vertical position.
Several standard parts have been developed to achieve individual adaptation for various circumstances and are available as optional accessories.
The thrust pad and all parts of the cam system subject to heavy loads are case-hardened.
The maximum permissible clamping force is approximately 4905 N.



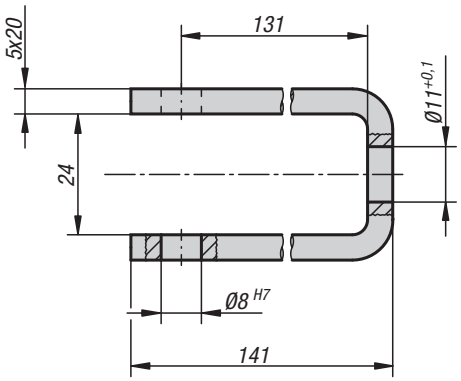
KIPP Clamping element “arness”

Order No.	Dimensions
K0021.01	see drawing

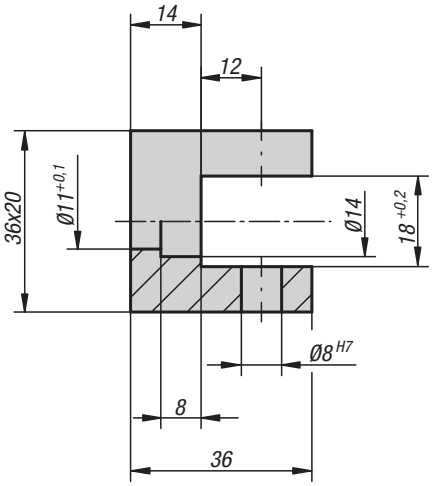
Clamping element “arness”



thrust pad



tension bracket



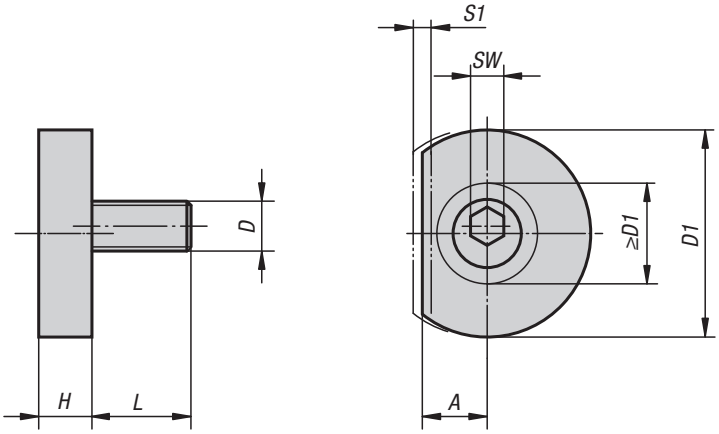
clevis

KIPP “arness” accessories

Order No.	Description
K0021.02	Clevis
K0021.03	Tension bracket
K0021.04	Thrust pad

Fixture clamps machinable





Material:
Cam screw alloyed steel.
Clamping disc steel.

Version:
Cam screw and clamping disc black oxidised.

Sample order:
K0022.06

Note:
These fixture clamps have a round washer that can be machined to suit the contour of the workpiece being clamped. This allows positive clamping for round, contoured or fragile workpieces. The flat edge is the same distance from the screw centre as our hexagonal fixture clamps K0026 allowing an interchange between the two.

"A" = distance from workpiece to screw centre (cam screw).
"D1 min." = maximum depth of contour.

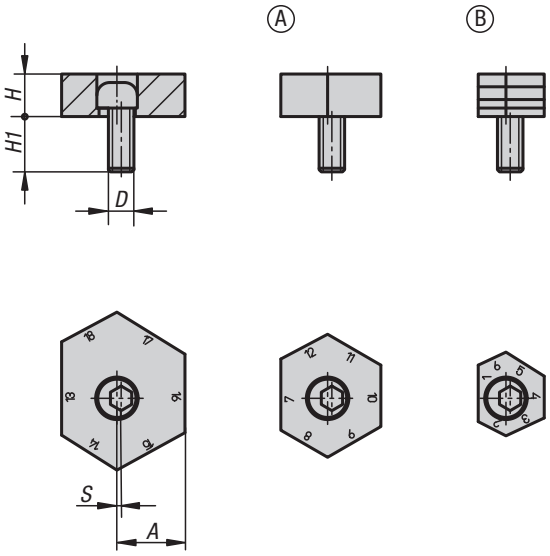
On request:
Replacement cam screws.

KIPP Fixture clamps machinable

Order No.	A	D	D1	D1 min.	H	L	SW	S1 (travel)	Clamping force kN
K0022.06	7,8	M6	24,9	12,1	6,4	11,9	4	1,01	3,3
K0022.10	10,2	M10	31,2	17,2	8,9	18	7	1,52	8,9
K0022.12	12,7	M12	37,6	22,4	11,4	22,9	8	2,03	17,8
K0022.16	15	M16	43,9	26,1	14	28,6	12	2,54	26,7

Fixture clamps unequal hexagon





Material:
Cam screw steel tempered to 10.9.
Hexagon washer mild steel.

Version:
Cam screw black oxidised.
Hexagon washer hardened and black oxidised.

Sample order:
K0023.13

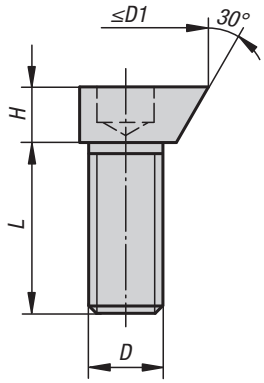
Note:
Theses unequal hexagon fixture clamps can minimise the cost of clamping in fixtures. The clamping range can be altered up to 17 mm from the same tapped hole. Simply rotate the hexagon washer.
The washers are available with smooth edges for machined faces or with serrated edges for rough faces.

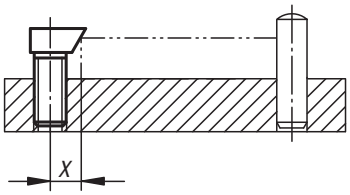
On request:
Replacement cam screws.

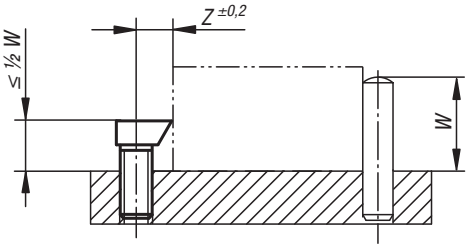
KIPP Fixture clamps unequal hexagon

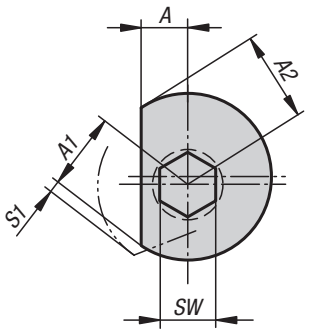
Order No. Form A smooth	Order No. Form B serrated	Distance A by face No.	D	H	H1	S (cam travel)	Clamping force kN
K0023.09	**K0023.13**	1/12, 2/13, 3/14, 4/15, 5/16, 6/17	M12	10	22	1	18
K0023.10	**K0023.14**	7/18, 8/19, 9/20, 10/21, 11/22, 12/23	M12	10	22	1	18
K0023.11	**K0023.15**	13/24, 14/25, 15/26, 16/27, 17/28, 18/29	M12	10	22	1	18

Spiral cam screws

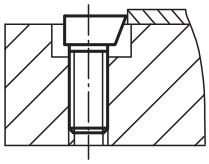




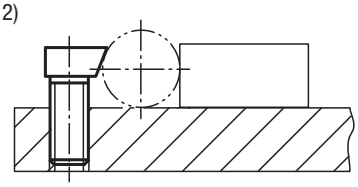




1)



2)





Material:
Steel.

Version:
Case-hardened (56 ±1 HRC) and blue galvanized.
Grade 8.8

Sample order:
K0024.0408

Note:
Robust, compact spiral cam clamping screws that exert a positive down force on diverse workpiece forms.

Assembly:
Drill and tap several holes at a distance X or Z (see diagram). Screw the cam screw into the required height and position with the flat side to the workpiece. Position the workpiece and tighten the cam screw with a hexagon key. Full clamping is achieved with approximately a 1/3 rotation. Lubricate the tapped hole regularly.

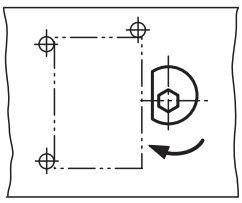
Place stops on the face towards which the screw turns to prevent the workpiece rotating away.

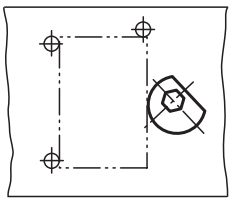
On request:
Spiral cam screws with LH thread.

Drawing reference:
1) clamping sheet metal
2) clamping round parts









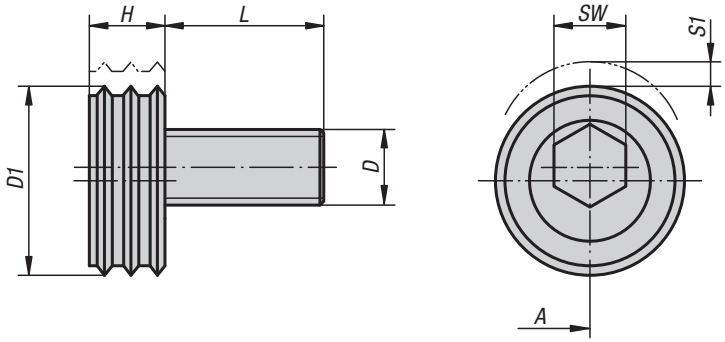
KIPP Spiral cam screws

Order No.	A	A1	A2	D	D1 max.	H	L	SW	S1 (travel)	X	Z	Clamping force kN	Tightening torque max. Nm
K0024.0408	3	4,6	4	M4	9,2	3	8	2,5	0,6	3,5	4,2	0,09	1,5
K0024.0510	3,5	5,7	5	M5	11,4	4	10	3	0,7	4,2	5,2	0,1	2
K0024.0612	4,5	7,1	6,1	M6	14,2	5	12	4	1	5,4	6,4	0,3	4,5
K0024.0816	5,5	8,9	7,7	M8	18	6	16	5	1,2	6,6	8	2,7	20
K0024.1020	6,5	11,1	9,4	M10	22,2	7	20	6	1,7	8,3	9,8	4	30
K0024.1224	8	13,5	11,6	M12	27	9	24	8	1,9	10,1	12	5,4	44

Cam screws

with knife edge washer





Material:
Knife edge washer.
Cam screw carbon steel.

Version:
Cam screw tempered to 10.9 and black oxidised.
Knife edge washer hardened and anodized.

Sample order:
K0025.16

Note:
Also called knife edge clamps.
The hardened knife edge washer is suitable for clamping rough cut stock, castings, forgings etc.

"A" = distance from workpiece to screw centre (cam screw).

On request:
Replacement cam screws.

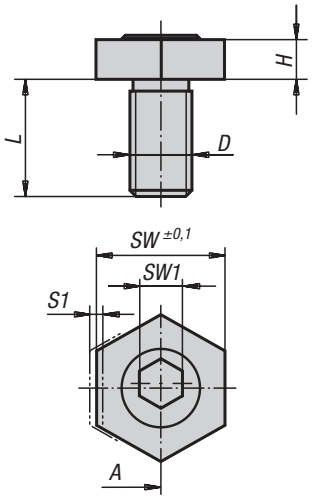
KIPP Cam screws with knife edge washer

Order No.	A	D	D1	L	H	SW	S1 (travel)	Clamping force kN	Tightening torque max. Nm
K0025.12	12,7	M12	25,4	22,5	9,6	8	2	18	88
K0025.16	15	M16	30,1	26,8	12,7	12	2,5	27	135

Cam screws

with hexagon washer





Material:
Cam screw carbon steel.
Hex washer brass.

Version:
Cam screw tempered to 10.9 and black oxidised.

Sample order:
K0026.12

Note:
Also called fixture clamps.
The minimal height of this fixture clamp allows numerous clamping problems in fixture and equipment construction to be solved. The brass hex washer offers a gentle yet extremely stable and safe clamping of workpieces. By using several fixture clamps entire pallets can be set-up.

"A" = distance from workpiece to screw centre (cam screw).

On request:
Replacement cam screws.



KIPP Cam screws with hexagon washer

Order No.	A	D	H	L	SW	SW1	S1 (travel)	Clamping force kN	Tightening torque max. Nm
K0026.04	3,8	M4	2,8	10	8	3	0,8	0,9	2,2
K0026.06	7,8	M6	4,8	12	16	4	1	3,4	8,5
K0026.08	10,2	M8	4,8	15	20,6	5	1	3,6	11,3
K0026.10	10,2	M10	6,4	20	20,6	7	1,6	9,0	28,06
K0026.12	12,7	M12	9,5	25	25,4	8	2	18,0	88
K0026.16	15	M16	12,7	30	30,2	12	2,5	27,0	135

Application using fixture clamps

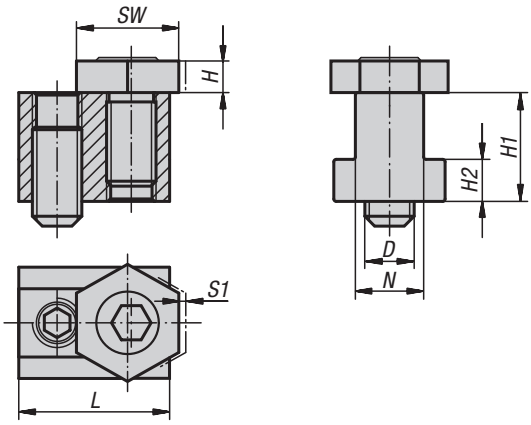


Notes

Cam screws

with hexagon washer, for T-slots





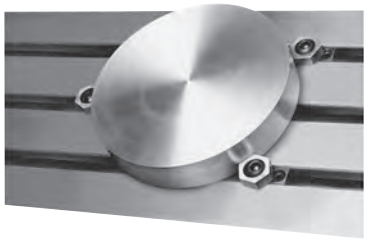
Material:
Carbon steel.
Hex washer brass.

Version:
Tempered to 10.9 and black oxidised.

Sample order:
K0027.12

Note:
Also called fixture clamps for T-slots.
These fixture clamps can be used directly on machine tables or other tables with T-slots. The grub screw at the rear locks the T-nut in the slot. Thin shims are recommended to prevent marking the bottom of the T-slot.

On request:
Replacement cam screws.

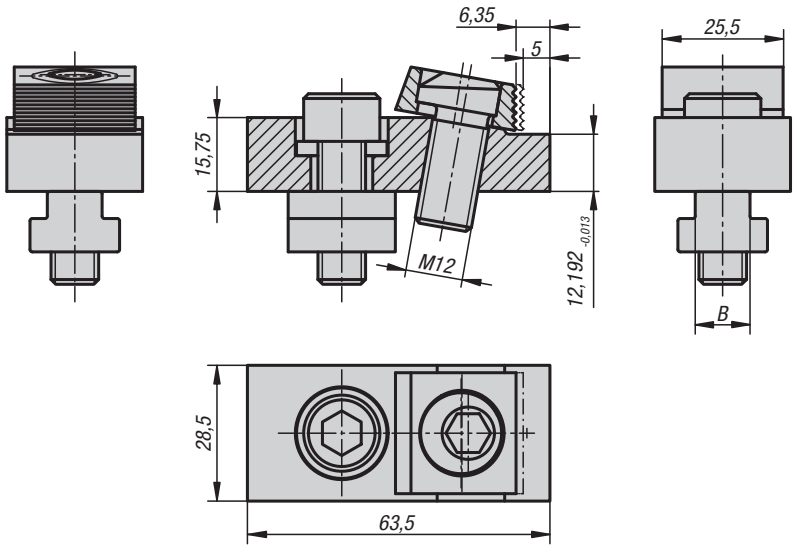


KIPP Cam screws with hexagon washer, for T-slots

Order No.	D	N	H	H1	H2	L	SW	S1 (travel)	Clamping force kN
K0027.08	M6	8	4,8	9,6	4,5	23	16	1	3,4
K0027.10	M6	10	4,8	14	4,5	23	16	1	3,4
K0027.12	M8	12	4,8	15,5	6,5	28	21	1	3,6
K0027.14	M10	14	6,4	22	8,5	30,5	21	1,6	9
K0027.16	M12	16	9,5	22,5	9	30,5	25	2	18
K0027.18	M12	18	9,5	28,5	10	34,5	25	2	18
K0027.20	M16	20	12,7	32	12	39	30	2,5	27
K0027.22	M16	22	12,7	38,2	14	44	30	2,5	27

Cam clamps with riser





Material:
Steel.

Version:
Body tempered and black oxidised.
Square washer case hardened and brass-plated.

Sample order:
K0028.16

Note:
Also called riser clamps.
These cam clamps with riser can be used directly on machine tables. A positive down force is exerted during clamping.

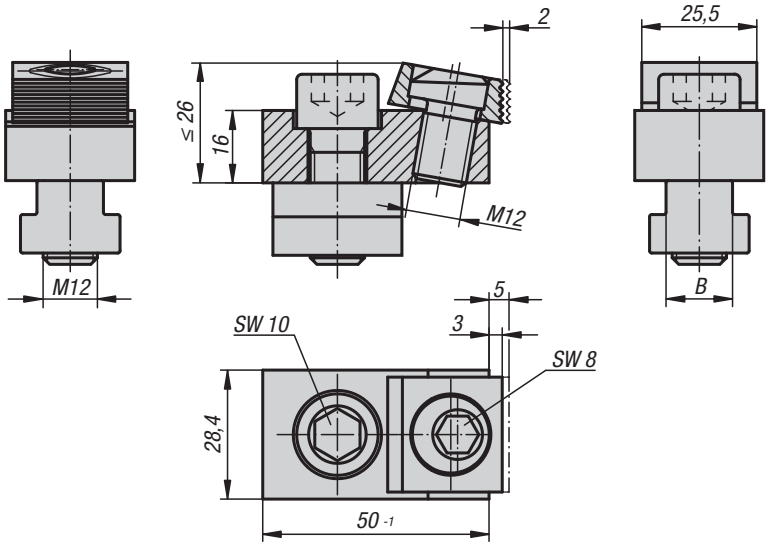
On request:
Replacement cam screws.

KIPP Cam clamps with riser

Order No.	B Slot width	Clamping force kN
K0028.12	12	12
K0028.14	14	12
K0028.16	16	12
K0028.18	18	12

Toe clamps for T-slots





Material:
Steel.

Version:
Body tempered and black oxidised.
Square washer case hardened and brass-plated.

Sample order:
K0029.14

Note:
These toe clamps can be used on machine tables or adapter plates. The positive down force holds the workpiece down on the supporting surface. The square washer can adapt slightly to an angular position i.e. the workpiece does not have to be exactly parallel. The clamping washer has a smooth side for machined surfaces and a serrated side for rough faces.

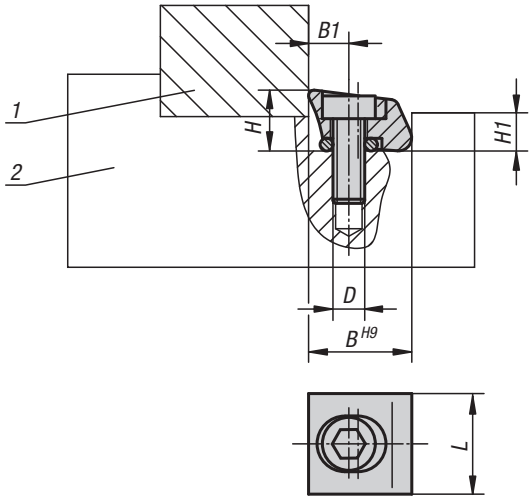
On request:
Replacement cam screws.

KIPP Toe clamps for T-slots

Order No.	B Slot width	Clamping force kN
K0029.00	without T-nut and screw	18
K0029.14	14	18
K0029.16	16	18
K0029.18	18	18

Chock clamps





Material:
Clamping element steel or brass.

Version:
Steel hardened.

Sample order:
K0030.113

Note:
Also known as pitbull clamps.
Extremely space-saving design.
No protruding edges due to lateral clamping.
Positive down force.

Drawing reference:
1) workpiece
2) Fixture

KIPP Chock clamps

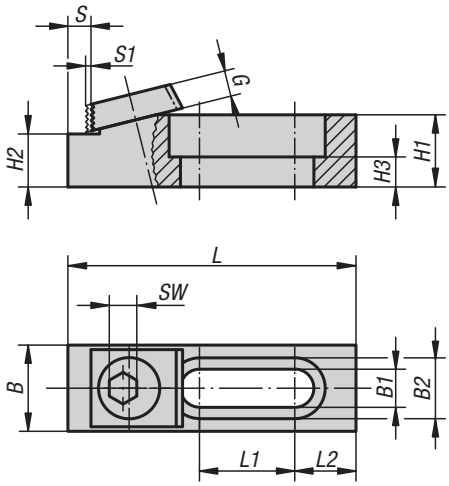
Order No.	Version	Main material	D	B	B1	H	H1	L	Clamping travel	Clamping force kN	Tightening torque max. Nm
K0030.110	with knife edge	steel	M2,5 x 8	9,5	3,8	6	3,6	9,5	0,15	2,8	1,8
K0030.113	with knife edge	steel	M4 x 12	12,7	5,1	8	4,8	13	0,4	6,6	5,6
K0030.119	with knife edge	steel	M6 x 16	19,05	7,6	11,5	7,2	19	0,6	16	22,5
K0030.210	with blunt edge	steel	M2,5 x 8	9,5	3,8	6	3,6	9,5	0,15	2,8	1,8
K0030.213	with blunt edge	steel	M4 x 12	12,7	5,1	8	4,8	13	0,4	6,6	5,6
K0030.219	with blunt edge	steel	M6 x 16	19,05	7,6	11,5	7,2	19	0,6	16	22,5
K0030.310	with blunt edge	brass	M2,5 x 8	9,5	3,8	6	3,6	9,5	0,15	0,9	0,56
K0030.313	with blunt edge	brass	M4 x 12	12,7	5,1	8	4,8	13	0,4	1,8	2,8
K0030.319	with blunt edge	brass	M6 x 16	19,05	7,6	11,5	7,2	19	0,6	4,2	5,6

Cam clamps

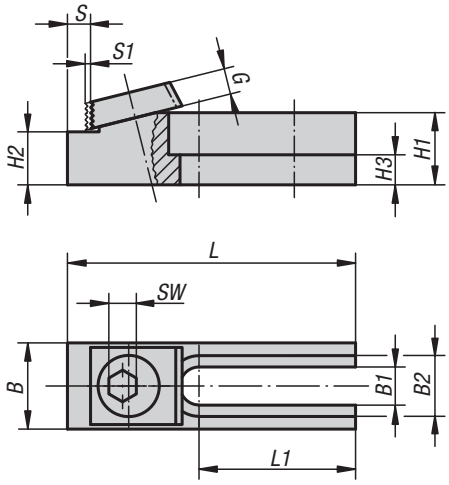
adjustable with riser



K0031.08, K0031.12



K0031.16



Material:
Steel.

Version:
Body tempered, black oxidised, riser faces ground.
Square washer case hardened and brass-plated.

Sample order:
K0031.12

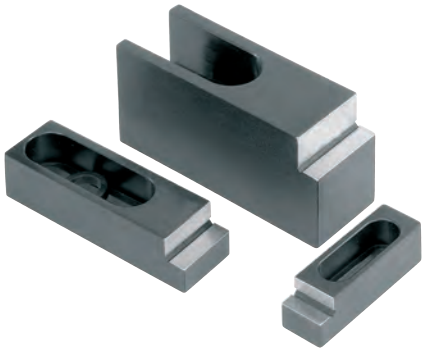
Note:
Also called multi-fixture clamps and stops.
Cost-effective custom made clamping fixtures can be produced using the adjustable riser cam clamps together with the matching riser stops.

On request:
Replacement cam screws.

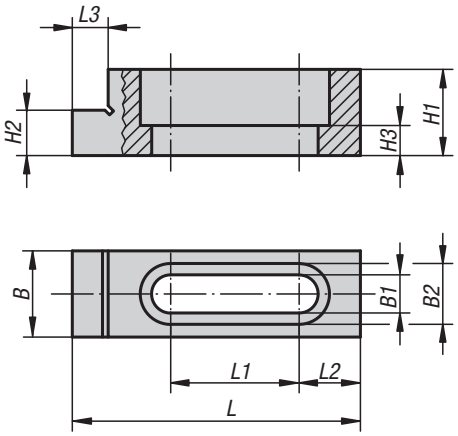
KIPP Cam clamps adjustable with riser

Order No.	suitable fastening screw	L	L1	L2	B	B1	B2	H1	H2	H3	S	S1	G	SW	Long hole	Clamping force kN	Tightening torque max. Nm
K0031.08	M8	63,5	21	13,5	19	8,4	13,4	15,9	11,684 -0,013	6,6	6,3	1,2	5,3	7	closed	8,9	28
K0031.12	M12	95,1	42,7	12,7	28,5	13	19,8	15,9	12,192 -0,013	6,9	7,1	2	9,5	8	closed	17,8	88
K0031.16	M16	107	46,3	-	38	17	24,8	41	35,001 -0,013	21	8,3	2,5	12,7	12	open	26,7	135

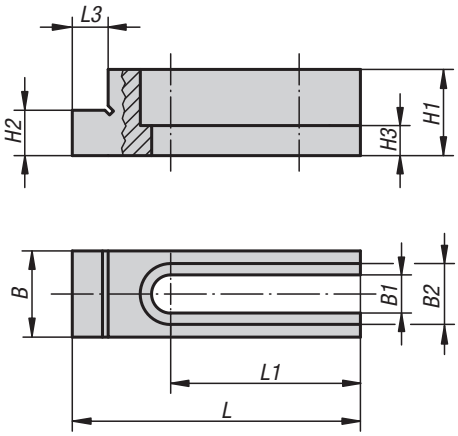
Riser stops



K0032.08, K0032.12



K0032.16



Material:
Steel.

Version:
Tempered, black oxidised.
Riser faces ground.

Sample order:
K0032.12

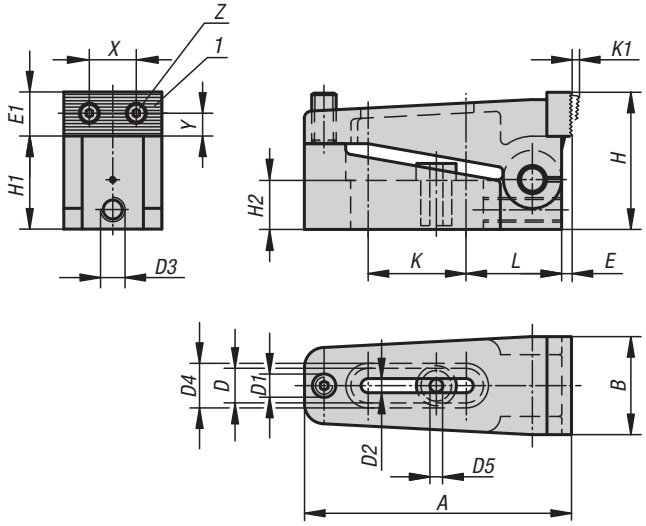
Note:
Also called multi-fixture clamps and stops.
Cost-effective custom made clamping fixtures can be produced using the adjustable riser cam clamps together with the matching riser stops.

KIPP Riser stops

Order No.	suitable fastening screw	L	L1	L2	L3	B	B1	B2	H1	H2	H3	Long hole
K0032.08	M8	63,5	28,3	13,5	7,9	19	8,4	13,4	19	11,684 -0,013	6,6	closed
K0032.12	M12	95,2	42,7	12,7	7,9	28,5	13,4	19,8	22	12,192 -0,013	6,9	closed
K0032.16	M16	107	46,2	-	9,5	38	17	24,8	50,7	35,001 -0,013	21,3	open

Side clamps





Material:
Body steel.
Jaw mild steel.
Centring bush carbon steel

Version:
Black oxidised.
Jaws case-hardened.

Sample order:
K0033.006

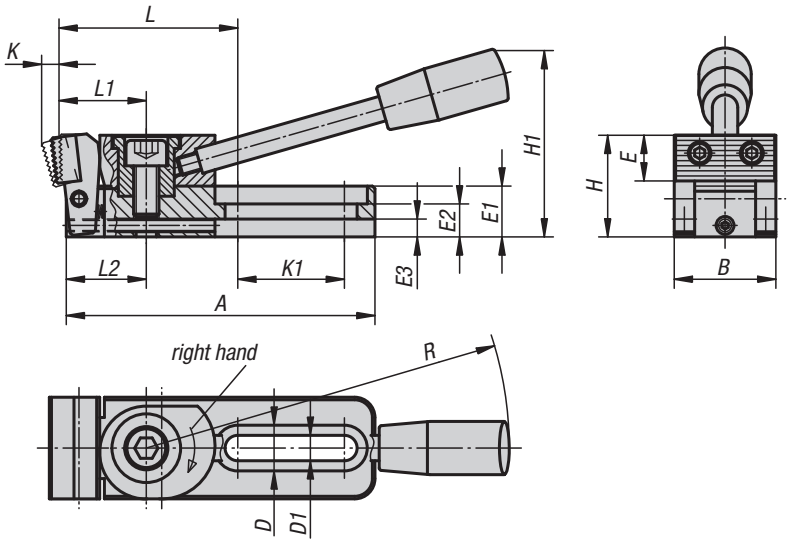
Note:
The jaws are reversible - smooth side for machined surfaces, serrated side for rough surfaces. A positive down force is also exerted during clamping.

Drawing reference:
1) reversible jaw

KIPP Side clamps

Order No.	A	B	D	D1	D2	D3	D4	D5	E	E1	H	H1	H2	K	K1	L	X	Y	Z	Clamping force kN
K0033.006	73	25	12,2	M6	7	M6	16	6,5	2,5	11	35	24	12,4	25,5	2,5	27	12	4,5	M3	10
K0033.010	110	39	18,2	M10	11	M10	24	10,5	4	18	56	38	20	40,5	4	39	20,5	8	M5	40
K0033.016	170	58	26,2	M16	17	M10	35	17	7	27	85	60	30	60,5	7	61	32	13	M8	100

Side clamps





Material:
Steel.

Version:
Case-hardened and black oxidised.

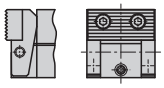
Sample order:
K0034.006010

Note:
This is a quick-action side clamp where workpieces are clamped by rotating a cam wheel which exerts pressure on the swivel jaw, simultaneously producing a positive down force.
Using the stop screw and centring bush (see diagram), the side clamp can be mounted and positioned on a modular grid system.

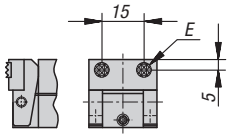
The versions K0034.006010, K0034.006015, K0034.006030 and K0034.006035 have 2 round carbide inserts.

Clamping force:
K0034.006... = 3800 N
K0034.010... = 7200 N

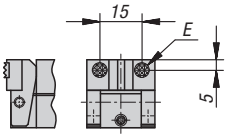
Form A
steel jaw
serrated



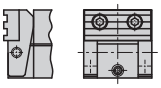
Form B
jaw with 2 round
carbide inserts



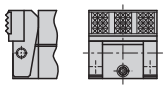
Form C
jaw with 2 round
carbide inserts
and central prism



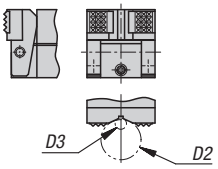
Form D
POM jaw
serrated

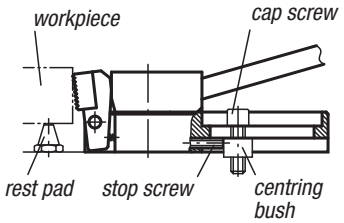


3 rectangular
carbide inserts



2 rectangular carbide
inserts and central prism

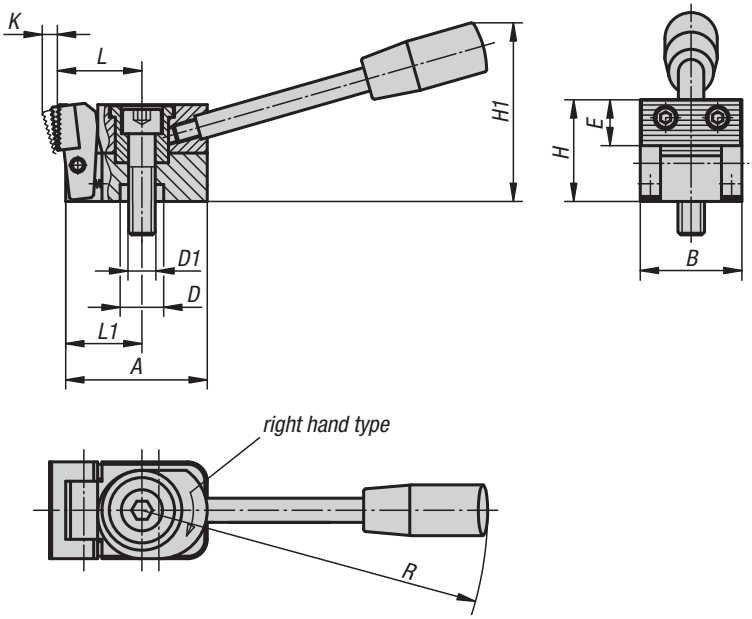




KIPP Side clamps

Order No.	Form	Version	A	B	D	D1	D2 max.	D3 min.	E	E1	E2	E3	H	H1	K	K1	L	L1	L2	R	Clamping force kN
K0034.006005	A	right	78	25	12	6,2	-	-	11	12	8	4	25	45	4	26	46,5	22	20	110	3,8
K0034.010005	A	right	121,5	40	18	10,2	-	-	18	20	13	7	40	74	6	42	71	35	31,5	143	7,2
K0034.006025	A	left	78	25	12	6,2	-	-	11	12	8	4	25	45	4	26	46,5	22	20	110	3,8
K0034.010025	A	left	121,5	40	18	10,2	-	-	18	20	13	7	40	74	6	42	71	35	31,5	143	7,2
K0034.006010	B	right	78	25	12	6,2	-	-	ø 8	12	8	4	24	45	3,5	26	46,5	22	20	110	3,8
K0034.010010	B	right	121,5	40	18	10,2	-	-	12,7	20	13	7	39	74	5,5	42	73	35	31,5	143	7,2
K0034.006030	B	left	78	25	12	6,2	-	-	ø 8	12	8	4	24	45	3,5	26	46,5	22	20	110	3,8
K0034.010030	B	left	121,5	40	18	10,2	-	-	12,7	20	13	7	39	74	5,5	42	73	35	31,5	143	7,2
K0034.006015	C	right	78	25	12	6,2	9,5	2,5	ø 8	12	8	4	24	45	3,5	26	46,5	22	20	110	3,8
K0034.010015	C	right	121,5	40	18	10,2	27	4,5	12,7	20	13	7	39	74	5,5	42	73	35	31,5	143	7,2
K0034.006035	C	left	78	25	12	6,2	9,5	2,5	ø 8	12	8	4	24	45	3,5	26	46,5	22	20	110	3,8
K0034.010035	C	left	121,5	40	18	10,2	27	4,5	12,7	20	13	7	39	74	5,5	42	73	35	31,5	143	7,2
K0034.006020	D	right	78	25	12	6,2	-	-	11	12	8	4	25	45	4,5	26	46,5	22	20	110	3,8
K0034.010020	D	right	121,5	40	18	10,2	-	-	18	20	13	7	40	74	7	42	70,5	35	31,5	143	7,2
K0034.006040	D	left	78	25	12	6,2	-	-	11	12	8	4	25	45	4,5	26	46,5	22	20	110	3,8
K0034.010040	D	left	121,5	40	18	10,2	-	-	18	20	13	7	40	74	7	42	70,5	35	31,5	143	7,2

Side clamps





Material:
Steel.

Version:
Case-hardened and black oxidised.

Sample order:
K0035.006005

Note:
This is a quick-action side clamp where workpieces are clamped by rotating a cam wheel which exerts pressure on the swivel jaw, simultaneously producing a positive down force.
Using the centring bush (see diagram), the side clamp can be mounted and positioned on a modular grid system.

The versions K0035.006010, K0035.006015, K0035.006030 and K0035.006035 have 2 round carbide inserts.

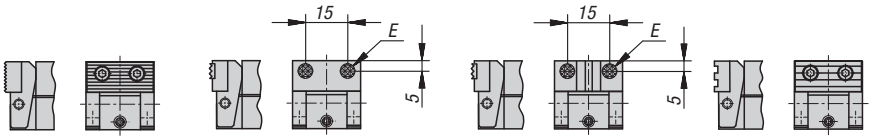
Clamping force:
K0035.006... = 3800 N
K0035.010... = 7200 N

Form A
steel jaw
serrated

Form B
jaw with 2 round
carbide inserts

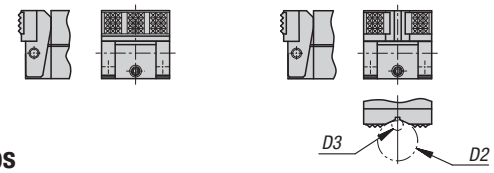
Form C
jaw with 2 round
carbide inserts
and central prism

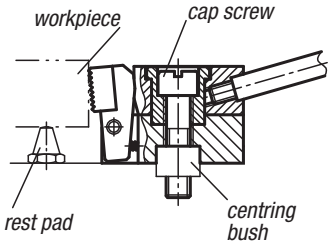
Form D
POM jaw
serrated



3 rectangular
carbide inserts

2 rectangular carbide
inserts and central prism



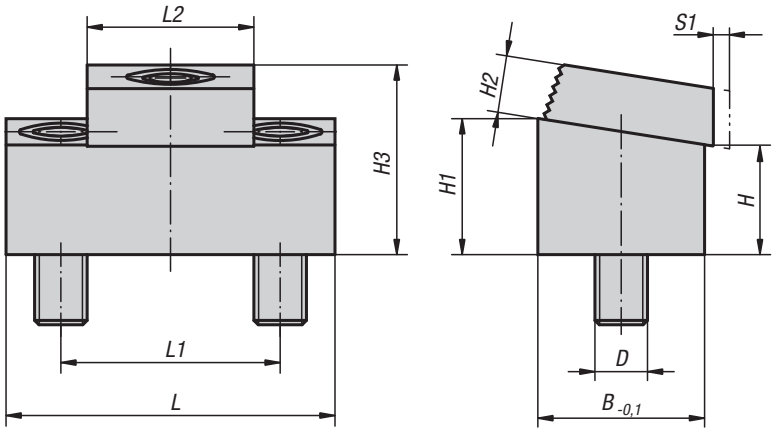


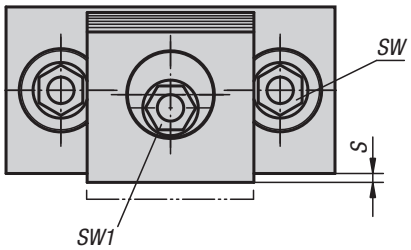
KIPP Side clamps

Order No.	Form	Version	A	B	D	D1	D2 max.	D3 min.	E	H	H1	K	L	L1	R	Clamping force kN
K0035.006005	A	right	38,5	25	12	M6	-	-	11	25	45	4	22	20	110	3,8
K0035.010005	A	right	58,5	40	18	M10	-	-	18	40	74	6	35	31,5	143	7,2
K0035.006025	A	left	38,5	25	12	M6	-	-	11	25	45	4	22	20	110	3,8
K0035.010025	A	left	58,5	40	18	M10	-	-	18	40	74	6	35	31,5	143	7,2
K0035.006010	B	right	38,5	25	12	M6	-	-	ø 8	24	45	3,5	22	20	110	3,8
K0035.010010	B	right	58,5	40	18	M10	-	-	12,7	39	74	5,5	37	31,5	143	7,2
K0035.006030	B	left	38,5	25	12	M6	-	-	ø 8	24	45	3,5	22	20	110	3,8
K0035.010030	B	left	58,5	40	18	M10	-	-	12,7	39	74	5,5	37	31,5	143	7,2
K0035.006015	C	right	38,5	25	12	M6	9,5	2,5	ø 8	24	45	3,5	22	20	110	3,8
K0035.010015	C	right	58,5	40	18	M10	27	4,5	12,7	39	74	5,5	37	31,5	143	7,2
K0035.006035	C	left	38,5	25	12	M6	9,5	2,5	ø 8	24	45	3,5	22	20	110	3,8
K0035.010035	C	left	58,5	40	18	M10	27	4,5	12,7	39	74	5,5	37	31,5	143	7,2
K0035.006020	D	right	38,5	25	12	M6	-	-	11	25	45	4,5	22	20	110	3,8
K0035.010020	D	right	58,5	40	18	M10	-	-	18	40	74	7	34,5	31,5	143	7,2
K0035.006040	D	left	38,5	25	12	M6	-	-	11	25	45	4,5	22	20	110	3,8
K0035.010040	D	left	58,5	40	18	M10	-	-	18	40	74	7	34,5	31,5	143	7,2

Toe clamps compact







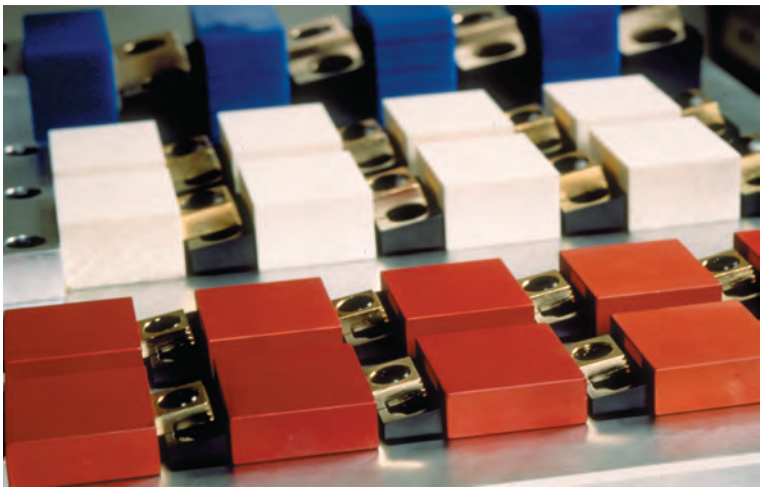
Material:
Steel.

Version:
Body tempered and black oxidised.
Square washer case-hardened and brass-plated.

Sample order:
K0036.10

Note:
This cam action compact toe clamp requires very little space to produce multi-fixture clamping.
Workpieces can be clamped in series by using the back side of a clamp as a stop for the next row.
Mount preferably in slots with B +0.05 mm. The height of the clamp can be adjusted by altering the slot depth.

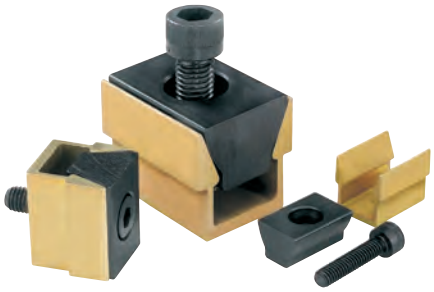
Example of series clamping using compact toe clamps

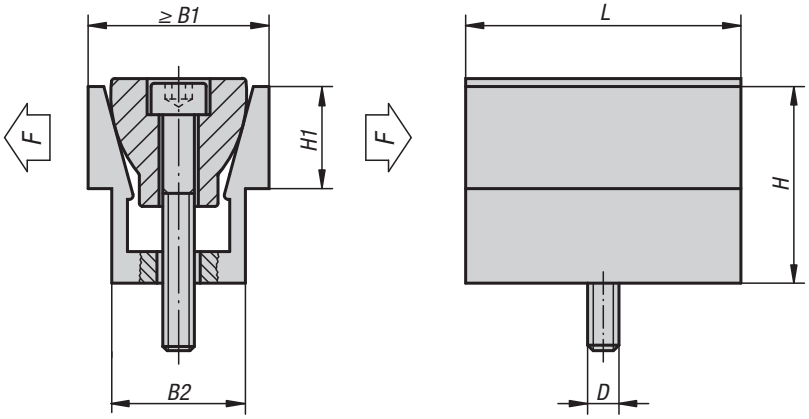


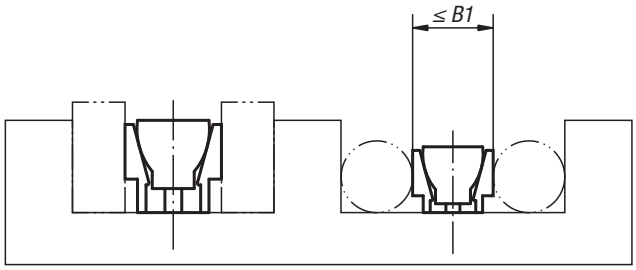
KIPP Toe clamps compact

Order No.	L	L1	L2	B	H	H1	H2	H3 max.	S	D	S1 (travel)	SW	SW1	Clamping force kN	Tightening torque max. Nm
K0036.08	43,2	25,4	19	19	12,7	15,7	6,4	21,4	1,5	M8	1,6	5	7	8,9	28
K0036.10	54	33,5	25,4	25,4	11,4	15,4	9,7	24,5	1,8	M10	2	7	8	17,8	88
K0036.12	75	50,8	38	38,1	25,5	31,5	13	43	2,05	M12	2,5	10	12	26,7	135

Wedge clamps







Material:
Channel aluminium profile.
Wedge hardened steel.

Version:
Channel anodized.
Wedge black oxidised.

Sample order:
K0037.08

Note:
Two workpieces can be held simultaneously with the wedge clamp. They are ideal for clamping round or rectangular pieces. The compact design allows space-saving series clamping.

Drawing reference:
In clamped position dimension B1 max. given in the table should be achieved.

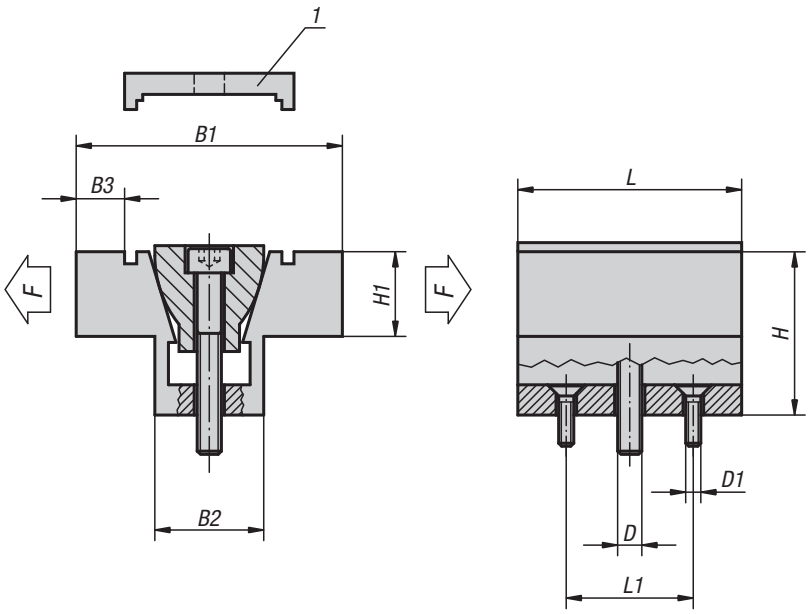
KIPP Wedge clamps

Order No.	D	L	B1 min. - max.	B2	H	H1	F kN	Tightening torque max. Nm
K0037.04	M4	15,9	12,3 - 13,1	10,4	12,7	5,6	2,2	3,4
K0037.06	M6	23,8	18,6 - 19,9	16,1	19	9,5	6,7	14,3
K0037.08	M8	31,7	24,8 - 26,6	20,8	25,4	12,7	8,9	14,5
K0037.12	M12	47,6	37,3 - 39,7	30,8	38,1	19	15,6	38,4
K0037.16	M16	63,5	49,7 - 52,8	41,2	50,8	25,4	26,7	74,6

Wedge clamps

machinable





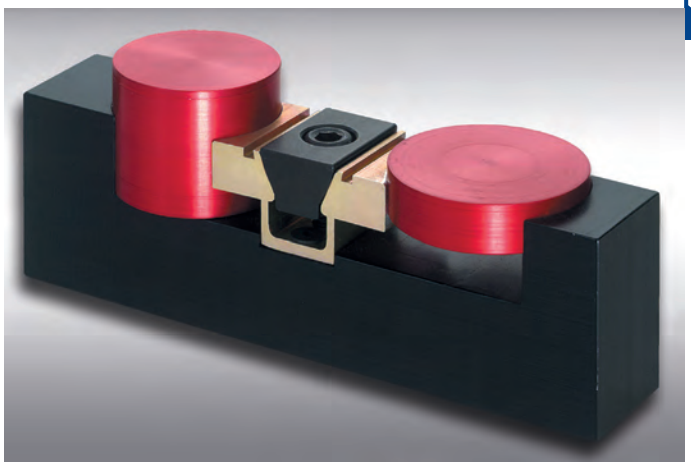
Material:
Channel aluminium profile.
Wedge hardened steel.

Version:
Channel anodized.
Wedge black oxidised.

Sample order:
K0038.08

Note:
Two workpieces can be held simultaneously with the wedge clamp. The jaws have extra material allowing them to be machined to conform to the shape of the workpiece. The compact design allows space-saving series clamping.

Drawing reference:
1) The locking plate is only used for machining the form, not for clamping the workpiece.



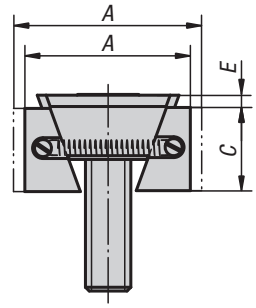
KIPP Wedge clamps machinable

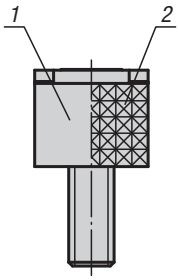
Order No.	D	D1	L	L1	B1 min. - max.	B2	B3	H	H1	F kN	Tightening torque max. Nm
K0038.04	M4	M2	15,7	10,16	28,6 - 29,1	10,6	4,6	12,7	6,3	2,2	3,4
K0038.06	M6	M4	23,9	15,9	38,1 - 39	16,1	6,6	19,1	9,4	6,7	14,3
K0038.08	M8	M4	31,8	20,6	50,8 - 52	20,8	9,9	25,4	12,7	8,9	14,5
K0038.12	M12	M5	47,5	30,5	76,2 - 78	30,9	15,7	38,1	19	15,6	38,4
K0038.16	M16	M6	63,5	41,28	101,6 - 103,9	41,3	20,3	50,8	25,4	26,7	74,6

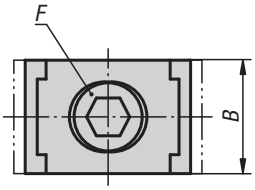
Wedge clamps

jaw face smooth or serrated









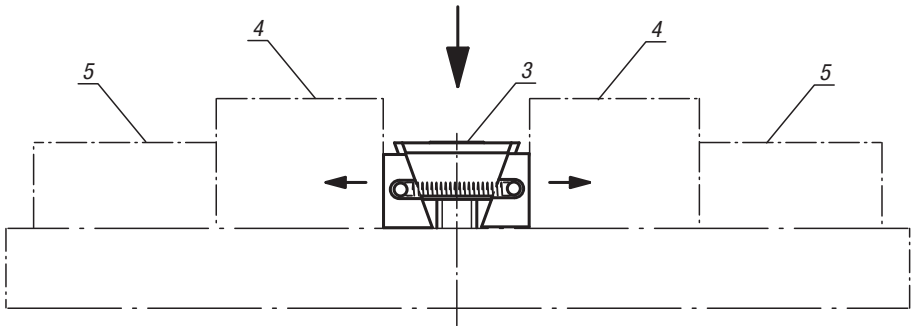
Material:
Wedge and jaw segments carbon steel.

Version:
Wedge and jaw segments hardened, black.

Sample order:
K0039.2208

Note:
The functioning principle make the wedge clamps ideal for series clamping. The wedge form can exert high clamping forces.
These wedge clamps can be mounted in grid holes or T-slots. Tightening the socket screw moves the wedge down and the jaws out pressing the workpieces against the fixtures fixed stops.
The wedge has a slightly elongated hole allowing for movement to compensate for tolerances.

Spread width:
M8 = ±0.5 mm
M10 = ±1.0 mm
M12 = ±1.0 mm
M16 = ±1.5 mm



Drawing reference:
1) Jaw face smooth
2) Jaw face serrated

3) Wedge clamps
4) Workpiece
5) Fixed stop

KIPP Wedge clamps, narrow version

Order No. smooth	Order No. serrated	A min.	A max.	B	C	E	F DIN 6912 cap screw	Clamping force kN	Tightening torque Nm
K0039.1108	**K0039.2108**	30,5	33,5	24	15	2	M8x25	15	25
K0039.1110	**K0039.2110**	32	37	28	19	3,5	M10x25	20	49
K0039.1112	**K0039.2112**	44	49,5	30	22	3,5	M12x40	30	85
K0039.1116	**K0039.2116**	55	62	40	29	4	M16x60	50	210

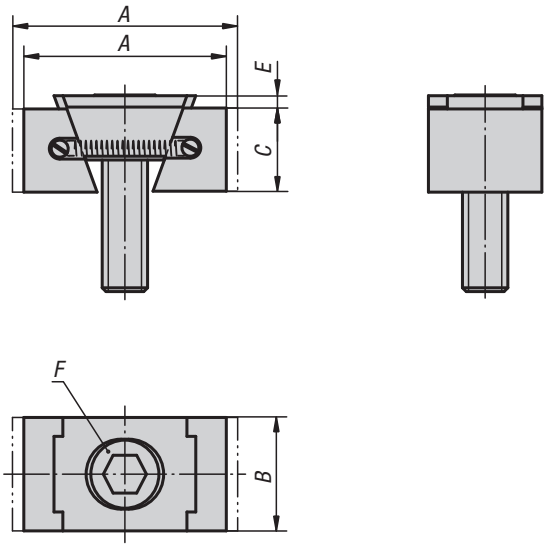
KIPP Wedge clamps, wide version

Order No. smooth	Order No. serrated	A min.	A max.	B	C	E	F DIN 6912 cap screw	Clamping force kN	Tightening torque Nm
K0039.1208	**K0039.2208**	30,5	33,5	30	15	2	M8x25	15	25
K0039.1210	**K0039.2210**	32	37	38	19	3,5	M10x25	20	49
K0039.1212	**K0039.2212**	44	49,5	48	22	3,5	M12x40	30	85
K0039.1216	**K0039.2216**	55	62	48	29	4	M16x60	50	210

Wedge clamps

machinable





Material:
Wedge and jaw segments carbon steel.

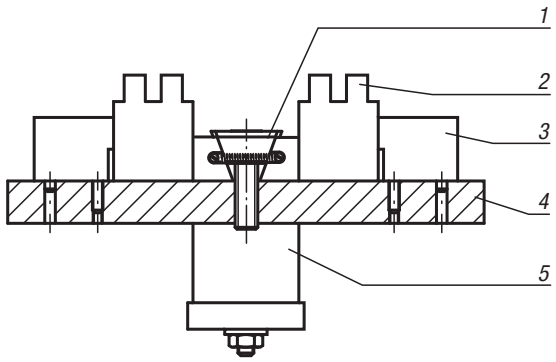
Version:
Wedge and jaw segments tempered, black.

Sample order:
K0649.3110

Note:
These wedge clamps have extra long jaws. This extra material allows the jaws to machined to suit the form of the workpiece.
The functioning principle make the wedge clamps ideal for series clamping. The wedge form can exert high clamping forces.
These wedge clamps can be mounted in grid holes or T-slots. Tightening the socket screw moves the wedge down and the jaws out pressing the workpieces against the fixtures fixed stops.
The wedge has a slightly elongated hole allowing for movement to compensate for tolerances.

Spread width:
M8 = ±0.5 mm
M10 = ±1.0 mm
M12 = ±1.0 mm
M16 = ±1.5 mm

Drawing reference:
1) wedge clamps
2) workpiece
3) fixed stop
4) base plate
5) hydraulic/pneumatic cylinder



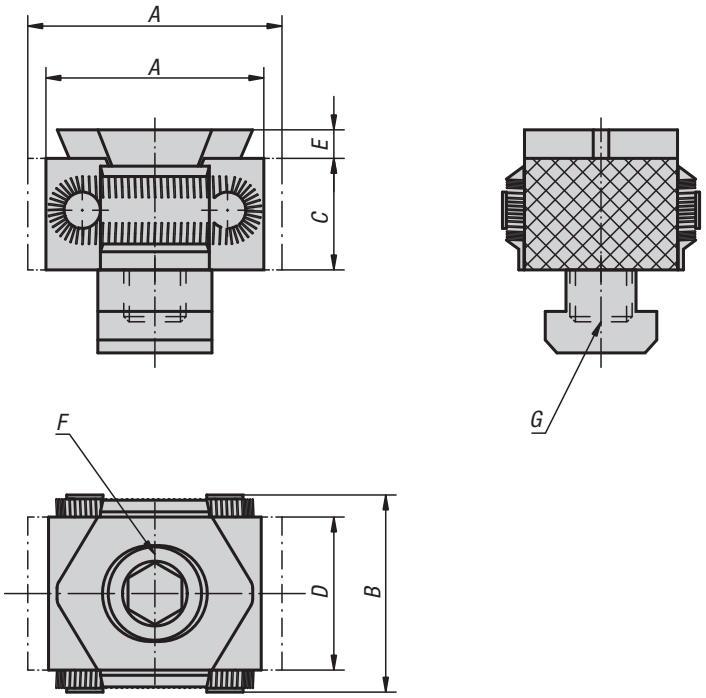
KIPP Wedge clamps, machinable

Order No.	Version	A min.	A max.	B	C	E	F DIN 6912 cap screw	Clamping force kN	Tightening torque Nm
K0649.3108	narrow	36,5	39,5	24	15	2	M8x25	11	19
K0649.3110	narrow	42	47	28	19	3,5	M10x25	15	37
K0649.3112	narrow	54	59,5	30	22	3,5	M12x40	23	65
K0649.3116	narrow	65	72	40	29	4	M16x60	38	160
K0649.3208	wide	36,5	39,5	30	15	2	M8x25	11	19
K0649.3210	wide	42	47	38	19	3,5	M10x25	15	37
K0649.3212	wide	54	59,5	48	22	3,5	M12x40	23	65
K0649.3216	wide	65	72	48	29	4	M16x60	38	160

Wedge clamps

jaw faces serrated





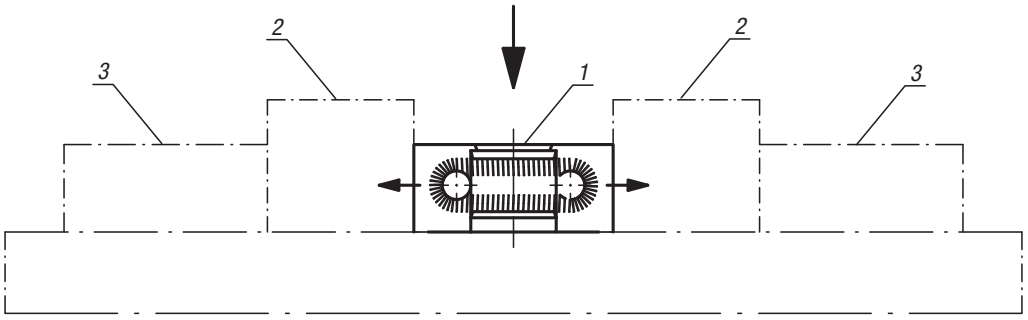
Material:
Body and clamping segments tool steel.

Version:
Body hardened.
Jaw segments hardened (49-51 HRC) black oxidised.
Wedge faces ground.

Sample order:
K0040.1618

Note:
The compact design makes these wedge clamps ideal for horizontal and vertical series clamping. The hardened and ground wedge faces can exert high clamping forces.
These wedge clamps can be mounted in grid holes or T-slots. Tightening the DIN 912 socket screw moves the wedge down and the jaws out pressing the workpieces against the fixtures fixed stops.**The jaws of version K0040.08 and K0040.0810 are not serrated.** The wedge has a slightly elongated hole allowing for movement.Spread width:
K0040.08 = ±0.5 mm
K0040.12 = ±1.0 mm
K0040.16 = ±1.5 mm.

Drawing reference:
1) Wedge clamps
2) Workpiece
3) Fixed stop



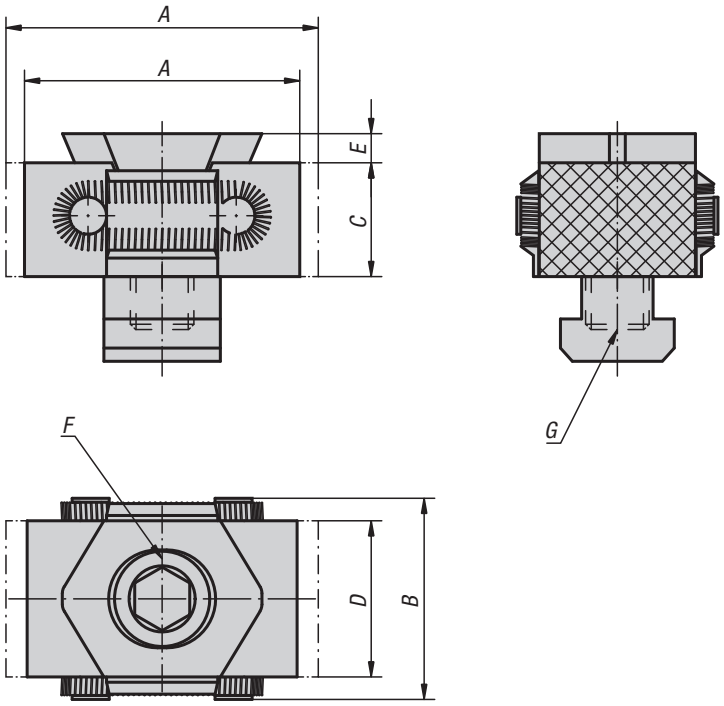
KIPP Wedge clamps, jaw faces serrated

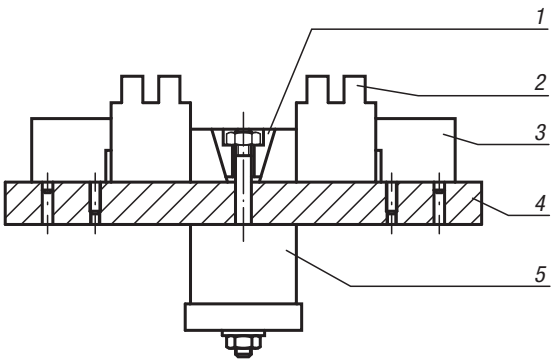
Order No.	A min.	A max.	B	C	D	E	F Socket head screw DIN 912	G	Clamping force kN	Tightening torque Nm
K0040.08	27	31	29	15	21	2,5	M8x25	for tapped hole	15	25
K0040.0810	27	31	29	15	21	2,5	M8x25	for T-slot 10	15	25
K0040.12	42	49	41	22	30	4	M12x40	for tapped hole	30	85
K0040.1214	42	49	41	22	30	4	M12x30	for T-slot 14	30	85
K0040.16	57	66	56	29	42	5	M16x60	for tapped hole	50	210
K0040.1618	57	66	56	29	42	5	M16x50	for T-slot 18	50	210

Wedge clamps

machinable







Material:
Body tool steel.
Jaw segments tool steel (30 HRC).

Version:
Body hardened.
Jaw segments black oxidised.
Wedge faces ground.

Sample order:
K0041.12

Note:
These wedge clamps have a machining allowance per jaw of 3 mm for version K0041.08 and 5 mm for versions K0041.12 and K0041.16.
This extra material allows the jaws to machined to suit the form of the workpiece.

The jaws version K0041.08 and K0041.0810 are not serrated.

Spread width:
K0041.08 = ±0.5 mm
K0041.12 = ±1.0 mm
K0041.16 = ±1.5 mm

On request:
Pre-formed jaw segments or other hardness grades.

Drawing reference:
1) wedge clamps
2) workpiece
3) fixed stop
4) base plate
5) hydraulic/pneumatic cylinder

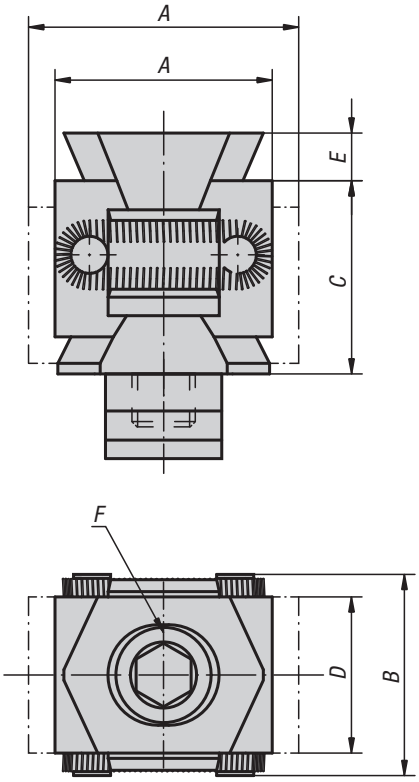
KIPP Wedge clamps machinable

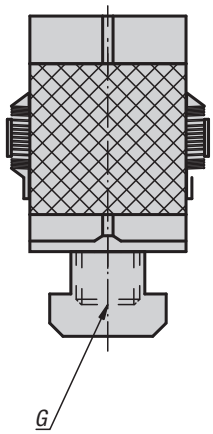
Order No.	A min.	A max.	B	C	D	E	F Socket head screw DIN 912	G	Clamping force kN	Tightening torque Nm
K0041.08	33	37	29	15	21	2,5	M8x25	for tapped hole	15	25
K0041.0810	33	37	29	15	21	2,5	M8x25	for T-slot 10	15	25
K0041.12	52	59	41	22	30	4	M12x40	for tapped hole	30	85
K0041.1214	52	59	41	22	30	4	M12x30	for T-slot 14	30	85
K0041.16	67	76	56	29	42	5	M16x60	for tapped hole	50	210
K0041.1618	67	76	56	29	42	5	M16x50	for T-slot 18	50	210

Wedge clamps double wedge

jaw faces serrated







Material:
Body and jaw segments tool steel.

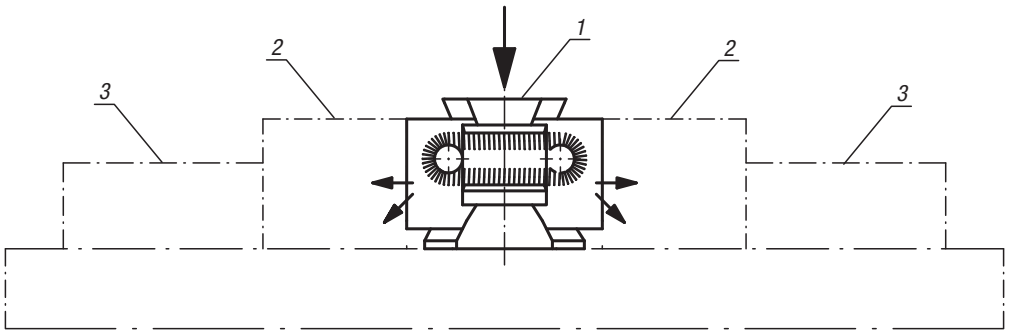
Version:
Body hardened.
Jaw segments hardened (49-51 HRC) and black oxidised.
Wedge faces ground.

Sample order:
K0042.1214

Note:
The compact design makes these double wedge clamps ideal for horizontal and vertical series clamping. The hardened and ground wedge faces can exert high clamping forces.
These wedge clamps can be mounted in grid holes or T-slots. Tightening the DIN 912 socket screw pulls the wedges together and the jaws out pressing the workpieces against the fixtures fixed stops.
The double wedges create a positive down force.

Spread width:
K0042.12 = ±1.0 mm
K0042.16 = ±1.5 mm

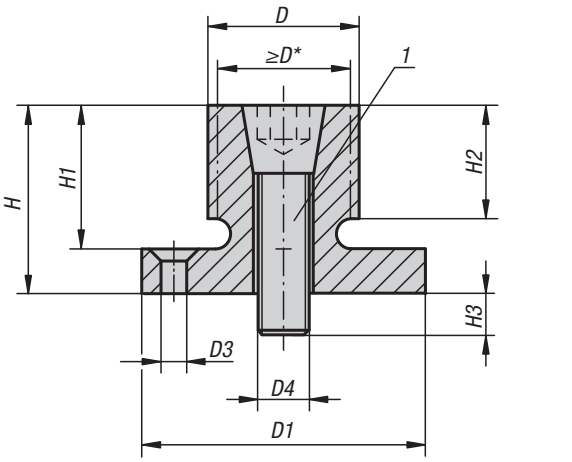
Drawing reference:
1) Wedge clamps
2) Workpiece
3) Fixed stop

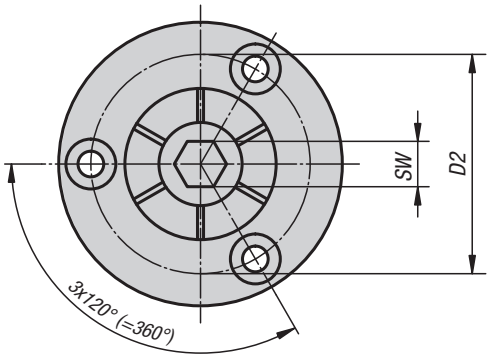


KIPP Wedge clamps double wedge, jaw faces serrated

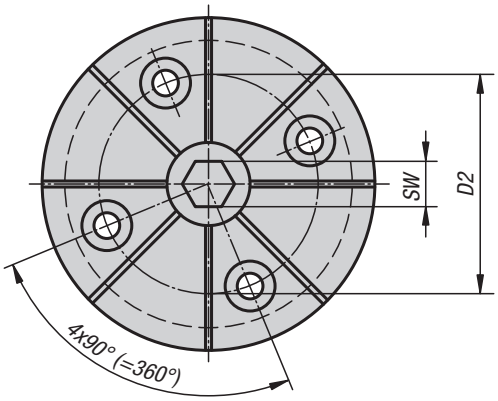
Order No.	A min.	A max.	B	C	D	E	F Socket head screw DIN 912	G	Clamping force kN	Tightening torque Nm
K0042.12	42	49	41	36	30	5	M12x60	for tapped hole	40	85
K0042.1214	42	49	41	36	30	5	M12x50	for T-slot 14	40	85
K0042.16	57	67	56	50	42	5	M16x80	for tapped hole	60	210
K0042.1618	57	67	56	50	42	5	M16x70	for T-slot 18	60	210

Mandrel collets





K0357.1630175





Material:
Mandrel mild steel.
Taper-head screw low-carbon steel

Version:
Mandrel black oxidised.
Taper-head screw case-hardened.

Sample order:
K0357.081420

Note:
The mandrel collet is ideal for finish machining turned parts. The diameter “D” can be turned or milled to suit the workpiece ID.
Low design - no interfering clamp straps.
Tightened using a hex socket wrench or hydraulics.

* D min. = smallest diameter to which “D” may be turned or milled.

Assembly:
Expand the mandrel approx. 0.1 mm over the relaxed diameter. Turn or mill the mandrel to suit the internal diameter of the workpiece. The base flange can be centred in a pocket or using dowel pins.

Drawing reference:
1) taper-head screw

KIPP Mandrel collets

Order No.	D	D min.	D1	D2	D3 for screw ISO 10642	D4 Tapered-head bolt	H	H1	H2	H3	SW Tapered-head bolt	Tightening torque max. Nm	Clamping force max. kN
K0357.020407	7,4	4,1	20 h9	13,7	M2	M2	10,7	7,6	6,1	4,1	1,5	0,7	1,1
K0357.040812	12,4	8	29,72 h9	21	M3	M4	21,8	16	15	8	3	5	4,2
K0357.061214	14,2	12,2	31,5 h9	23,1	M3	M6	24,9	19	15	12	5	17	8,5
K0357.081420	20	13,5	37,5 h9	29	M3	M8	24,9	19	15	14	6	34	11,1
K0357.062027	27	18	50 h9	39,4	M4	M10	28,6	22,2	17,5	17	8	60	20
K0357.102535	35,3	23	56 h9	45,5	M4	M12	31,8	25,4	20,6	21	10	150	26,3
K0357.123442	42	29,3	69,5 h8	55,9	M5	M16	39,6	31,8	27	22	14	280	44,5
K0357.123452	51,5	29,3	75,5 h9	63,9	M5	M16	39,6	31,8	27	22	14	280	44,5
K0357.163077	77,7	29,3	107,5 h9	92,5	M6	M16	45,5	37,6	32,3	20	14	280	44,5
K0357.1630103	103	29,3	132,9 h9	118	M6	M16	45,5	37,6	32,3	20	14	280	44,5
K0357.1630175	175	29,3	132,9 h9	118	M6	M16	45,5	37,6	32,3	20	14	280	44,5

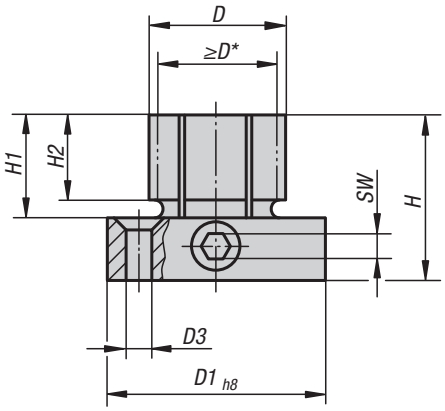
Mandrel collets

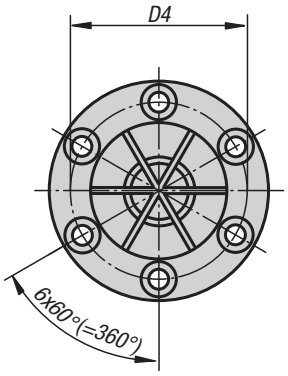
with side lock



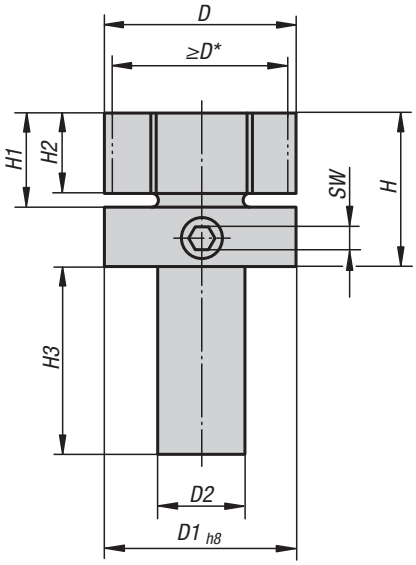


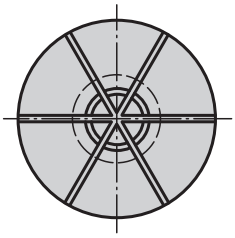
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Material:
Mandrel mild steel.
Clamping screw carbon steel.

Version:
Mandrel black oxidised.
Clamping screw tempered to 10.9, hardened and PTFE coated.

Sample order:
K0643.118029

Note:
The side lock make these mandrel collets ideal for finish machining parts with blind internal diameters. The diameter “D” can be turned or milled to suit the workpiece ID.

Manual tightening with hexagon socket wrench.

* D min. = smallest diameter to which “D” may be turned or milled.

Assembly:
Expand the mandrel approx. 0.1 mm over the relaxed diameter. Turn or mill the mandrel to suit the internal diameter of the workpiece. A locking ring is included for machining.
The shank or flange is centred in a reamed hole or pocket.
Form A is supplied with 6 fastening screws.

Drawing reference:
Form A: for machining centres, drilling and milling machines
Form B: with shaft for holding in lathe chucks

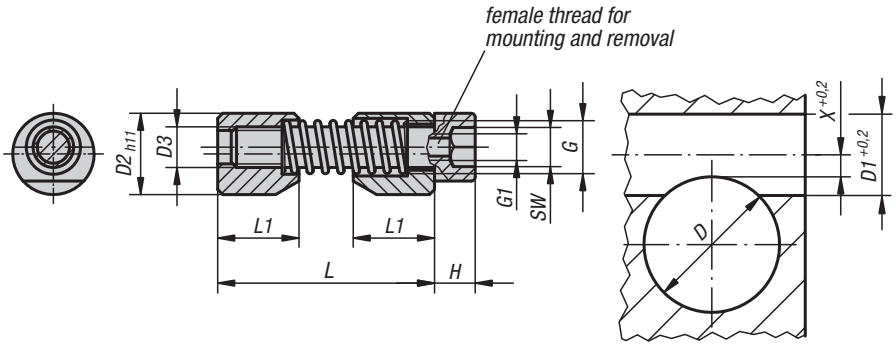


KIPP Mandrel collets with side lock

Order No.	Form	D	D min.	D1	D2	D3 for screw ISO 10642	D4	H	H1	H2	H3	SW	Tightening torque max. Nm	Clamping force max. kN
K0643.118029	A	28,7	17,8	50	-	M4	39,4	41,3	22,4	17,5	-	6	66	20
K0643.218053	B	53,3	18	53,3	25	-	-	44,4	25,4	21	45	6	66	20

Shaft clamping units

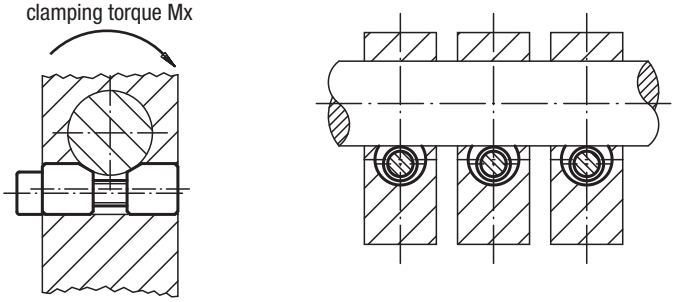




axial and radial clamping

adjusting and clamping

clamping torque Mx

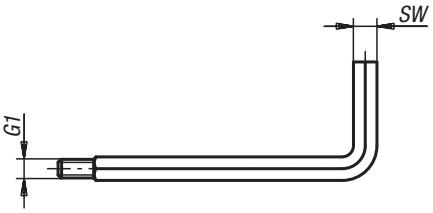


Material:
Jaws steel.
Spring 1.4310.
Screw grade 8.8.

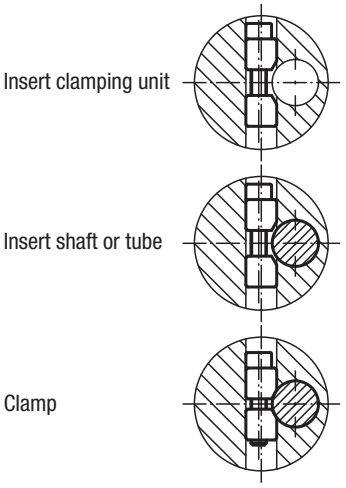
Version:
Jaws black oxidised.
Screw blue galvanised.

Sample order:
K0375.04

Note:
These shaft clamping units are the simple alternative to conventional shaft clamping (slot and grub screw). The units are suitable for various materials (metal, plastic, wood etc).
To loosen a jammed clamp simply hit it axially or extract it using a screw in the jaw end or screw head.



Special hex key with a threaded pin.
The pin is screwed into the hole G1 in the head of the cap screw to aid in positioning or removing the clamping unit.



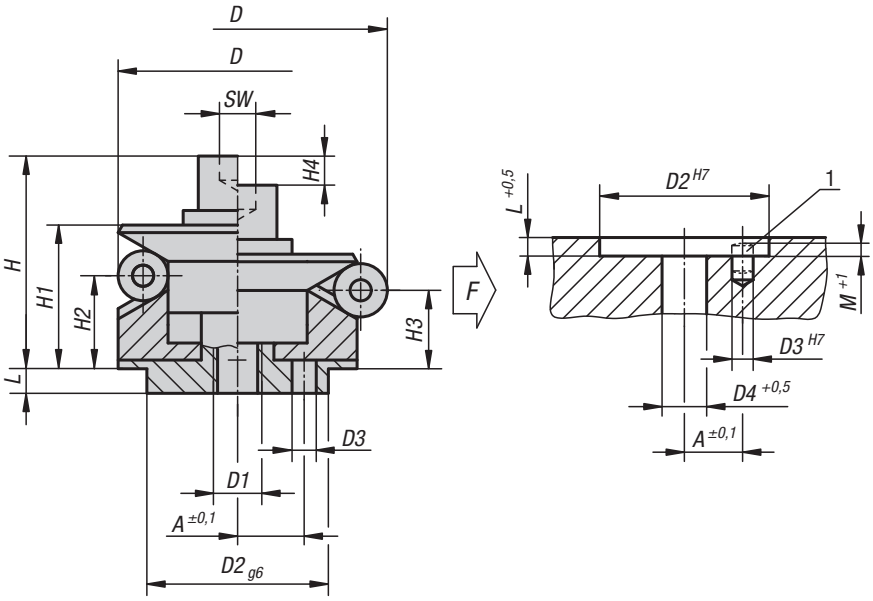
KIPP Shaft clamping units

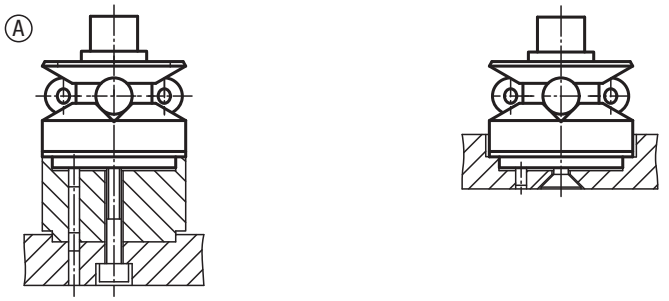
Order No.	D	D1	D2	D3	L max.	L1	X	G	G1	H	K	SW	Mx Nm	Order No. assembly tool
K0375.04	6-10	8	8	M4	27	8	2,8	M5	M2,5	4	10	3	max. 20	K0375.904
K0375.05	10-15	10	10	M5	33	10	3,3	M6	M3	5	10	4	max. 45	K0375.905
K0375.06	15-20	12	12	M6	39	12	3,5	M7	M4	6	10	5	max. 100	K0375.906
K0375.08	20-30	16	16	M8	46	16	4	M10	M5	8	10	6	max. 170	K0375.908
K0375.10	30-40	20	20	M10	53	20	4,8	M12	M6	10	15	8	max. 290	K0375.910
K0375.12	40-60	25	25	M12	70	25	5,6	M14	M8	12	15	10	max. 450	K0375.912
K0375.16	60-125	30	30	M16	81	30	7,9	M18	M10	16	15	14	max. 650	K0375.916

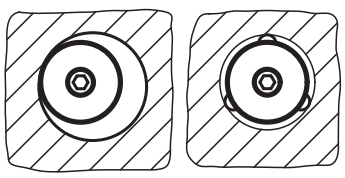
Centring clamps

with ball or hexagon segments









Material:
Body 1.2842.
Ball and hex segments 1.4112.
Tension spring 1.4310.

Version:
Body hardened and black oxidised.
Ball and hex segments hardened and ground.

Sample order:
K0358.101203

Note:
Form A: With balls for holes where light marking is acceptable.
Form B: With hexagons for sensitive hole surfaces.

Application:
To position and centre existing bores on the machining surface.

Advantages:
- Precise self-centring.
- Distortion free clamping.
- Large spread range.
- Low overall height.

Technical data:
Repetitive accuracy ±0.025
Concentric accuracy ±0.05

Drawing reference:
Form A: With balls for holes where light marking is acceptable.
Form B: With hexagons for sensitive hole surfaces.

1) Mounting aid:
pin to accurately position the mandrel segments.

Centring clamps

with ball or hexagon segments

KIPP Centring clamps with ball segments

Order No.	Form	A	D min.	D max.	D1	D2	D3	D4	H	H1	H2	H3	H4	L	M	SW	Ball-Ø	No. of balls	F kN
K0358.101203	A	3,5	11,7	14,2	M4	10	1,5	4,3	15	10	4,2	3	1,5	3,5	2,5	3	2,5	3	0,5
K0358.101504	A	4,5	14,5	18,5	M4	12	2	4,3	19,5	14,5	9,8	8,6	2,3	5,5	3	3	4	3	3,5
K0358.101905	A	5,5	18,5	22,5	M5	15	2,5	5,3	23,5	16,5	11,6	10,4	2,3	7,5	3	4	4	3	4
K0358.102306	A	7	22,5	26,5	M6	20	3	6,4	28,8	19,8	14,2	13	2,3	6	4	5	4	3	4,5
K0358.102706	A	7	26,5	30,5	M6	20	3	6,4	28,8	19,8	14,2	13	2,3	6	4,5	5	4	3	4,5
K0358.103106	A	9	30,5	38,5	M6	25	4	6,4	32,7	23,1	14,2	11,9	4,6	7	4,5	5	8	3	4,5
K0358.103908	A	11	38,5	46,5	M8	30	4	8,4	39,2	27,2	17,8	15,5	4,6	7,5	4,5	6	8	6	6,5
K0358.104708	A	11	46,5	54,5	M8	30	4	8,4	39,2	27,2	18	15,7	4,6	7,5	4,5	6	8	6	6,5
K0358.105510	A	15	54,5	70,5	M10	45	5	10,5	54,6	40,6	23,7	19,1	9,3	9	5,5	8	16	6	8
K0358.107112	A	17	70,5	86,5	M12	60	5	13	63,1	46,1	28,3	23,7	9,3	10	5,5	10	16	6	10
K0358.108712	A	25	86,5	102,5	M16	60	5	17	73	51	30,2	25,7	9,3	10	5,5	14	16	6	12,5

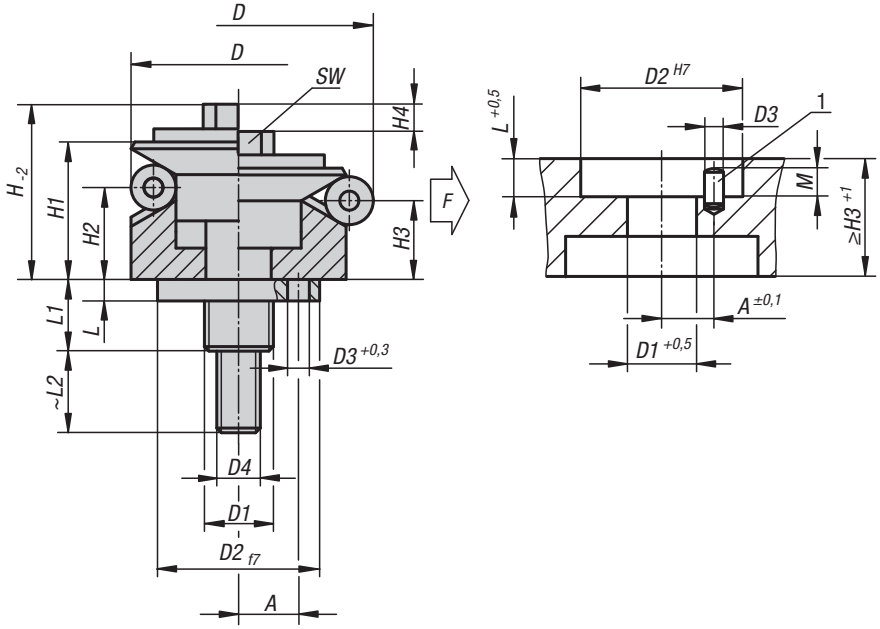
KIPP Centring clamps with hexagon segments

Order No.	Form	A	D min.	D max.	D1	D2	D3	D4	H	H1	H2	H3	H4	L	M	K	SW	No. of hex	F kN
K0358.201504	B	4,5	14,5	18,5	M4	12	2	4,3	19,5	14,5	9,8	8,6	2,3	5,5	3	4	3	3	3,5
K0358.201905	B	5,5	18,5	22,5	M5	15	2,5	5,3	23,5	16,5	11,6	10,4	2,3	7,5	3	4	4	3	4
K0358.202306	B	7	22,5	26,5	M6	20	3	6,4	28,8	19,8	14,2	13	2,3	6	4	4	5	3	4,5
K0358.202706	B	7	26,5	30,5	M6	20	3	6,4	28,8	19,8	14,2	13	2,3	6	4,5	4	5	3	4,5
K0358.203106	B	9	30,5	38,5	M6	25	4	6,4	32,7	23,1	14,2	11,9	4,6	7	4,5	8	5	3	4,5
K0358.203908	B	11	38,5	46,5	M8	30	4	8,4	39,2	27,2	17,8	15,5	4,6	7,5	4,5	8	6	6	6,5
K0358.204708	B	11	46,5	54,5	M8	30	4	8,4	39,2	27,2	18	15,7	4,6	7,5	4,5	8	6	6	6,5
K0358.205510	B	15	54,5	70,5	M10	45	5	10,5	54,6	40,6	23,7	19,1	9,3	9	5,5	16	8	6	8
K0358.207112	B	17	70,5	86,5	M12	60	5	13	63,1	46,1	28,3	23,7	9,3	10	5,5	16	10	6	10
K0358.208712	B	25	86,5	102,5	M16	60	5	17	73	51	30,2	25,7	9,3	10	5,5	16	14	6	12,5

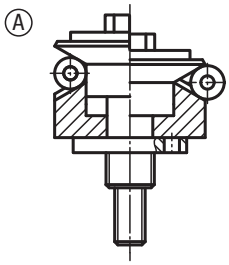
Centring clamps

with ball or hexagon segments

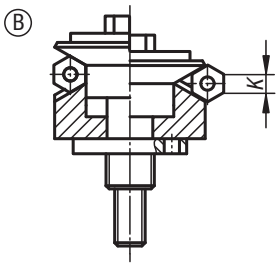


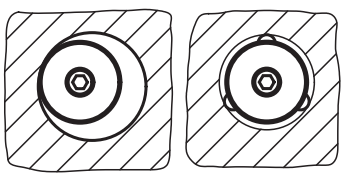


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Material:
Body 1.2842.
Ball and hex segments 1.4112.
Tension spring 1.4310.

Version:
Body hardened and black oxidised.
Ball and hex segments hardened and ground.

Sample order:
K0644.0101203

Note:
Form A: With balls for holes where light marking is acceptable.
Form B: With hexagons for sensitive hole surfaces.

Application:
For centre positioning and clamping in blind holes. Operated from below, manual or automatic using pneumatics or hydraulics.

Advantages:
- Precise self-centring.
- Distortion free clamping.
- Large spread range.
- Low overall height.
- Positive down force.

Technical data:
Repetitive accuracy ±0.025
Concentric accuracy ±0.05

Drawing reference:
Form A: With balls for holes where light marking is acceptable.
Form B: With hexagons for sensitive hole surfaces.

1) Mounting aid:
pin to accurately position the mandrel segments.

Centring clamps

with ball or hexagon segments

KIPP Centring clamps with ball segments

Order No.	Form	A	D min.	D max.	D1	D2	D3	D4	H	H1	H2	H3	H4	L	L1	L2	M	SW	Ball-Ø	No. of balls	F kN
K0644.0101203	A	3,5	11,7	14,2	M5	10	1,5	M3	12,8	10	4,2	3	1,4	3,5	11	10	2	5,5	2,5	3	0,5
K0644.0101503	A	4,5	14,5	18,5	M6	12	2	M3	17,3	14,5	9,8	8,6	2,3	5,5	14,1	12	2,5	5,5	4	3	3,5
K0644.0101904	A	5,5	18,5	22,5	M8	15	2,5	M4	20,9	16,5	11,6	10,4	2,3	7,5	18,2	14	3,5	7	4	3	4
K0644.0102305	A	7	22,5	26,5	M10	20	3	M5	25,4	19,8	14,2	13	2,3	6	17,4	15	3,5	8	4	3	4,5
K0644.0102705	A	7	26,5	30,5	M10	20	3	M5	25,4	19,8	14,2	13	2,3	6	17,4	15	3,5	8	4	3	4,5
K0644.0103106	A	9	30,5	38,5	M12	25	4	M6	30,3	23,1	14,2	11,9	4,6	7	21,9	20	3,5	10	8	3	4,5
K0644.0103906	A	11	38,5	46,5	M12	30	4	M6	34,2	27,2	17,8	15,5	4,6	7,5	22,5	20	4,5	10	8	6	6,5
K0644.0104706	A	11	46,5	54,5	M12	30	4	M6	34,2	27,2	18	15,7	4,6	7,5	22,5	20	6,5	10	8	6	6,5
K0644.0105508	A	15	54,5	70,5	M14x1,5	45	5	M8	49,9	40,6	23,7	19,1	9,3	9	24,5	32	6,5	13	16	6	8
K0644.0107108	A	17	70,5	86,5	M16x1,5	60	5	M8	55,4	46,1	28,3	23,7	9,3	10	29,4	20	6,5	13	16	6	10
K0644.0108708	A	25	86,5	102,5	M16x1,5	60	5	M10	61,6	51	30,2	25,7	9,3	10	29,4	25	6,5	17	16	6	12,5

KIPP Centring clamps with hexagon segments

Order No.	Form	A	D min.	D max.	D1	D2	D3	D4	H	H1	H2	H3	H4	L	L1	L2	M	K	SW	No. of hex	F kN
K0644.0201503	B	4,5	14,5	18,5	M6	12	2	M3	17,3	14,5	9,8	8,6	1,4	5,5	14,1	12	2,5	4	5,5	3	3,5
K0644.0201904	B	5,5	18,5	22,5	M8	15	2,5	M4	20,9	16,5	11,6	10,4	2,3	7,5	18,2	14	3,5	4	7	3	4
K0644.0202305	B	7	22,5	26,5	M10	20	3	M5	25,4	19,8	14,2	13	2,3	6	17,4	15	3,5	4	8	3	4,5
K0644.0202705	B	7	26,5	30,5	M10	20	3	M5	25,4	19,8	14,2	13	2,3	6	17,4	15	3,5	4	8	3	4,5
K0644.0203106	B	9	30,5	38,5	M12	25	4	M6	30,3	23,1	14,2	11,9	4,6	7	21,9	20	3,5	8	10	6	4,5
K0644.0203906	B	11	38,5	46,5	M12	30	4	M6	34,2	27,2	17,8	15,5	4,6	7,5	22,5	20	4,5	8	10	6	6,5
K0644.0204706	B	11	46,5	54,5	M12	30	4	M6	34,2	27,2	18	15,7	4,6	7,5	22,5	20	6,5	8	10	6	6,5
K0644.0205508	B	15	54,5	70,5	M14	45	5	M8	49,9	40,6	23,7	19,1	9,3	9	24,5	32	6,5	16	13	6	8
K0644.0207108	B	17	70,5	86,5	M16	60	5	M8	55,4	46,1	28,3	23,7	9,3	10	29,4	20	6,5	16	13	6	10
K0644.0208708	B	25	86,5	102,5	M16	60	5	M10	61,6	51	30,2	25,7	9,3	10	29,4	25	6,5	16	16	6	12,5

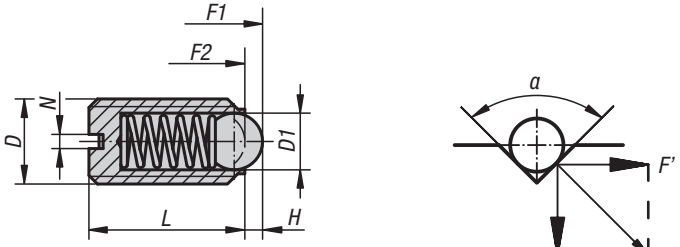
Spring plungers, indexing plungers, ball lock pins



Spring plungers

with slot and ball, steel





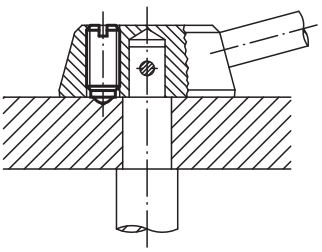
a = 60°, F' = 1,732 x F
a = 90°, F' = F
a = 120°, F' = 0,577 x F

Material:
Sleeve steel grade 5.8.
Ball steel.
Spring steel grade D.

Version:
Black oxidised. Ball hardened.

Sample order:
K0309.203

handle indexing



Spring plungers

with slot and ball, steel

KIPP Spring plungers with slot and ball, standard spring

Order No.	D	D1	L	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0309.03	M3	1,5	7	0,4	0,4	1,5	3
K0309.04	M4	2,5	9	0,8	0,6	4	10
K0309.05	M5	3	12	0,9	0,8	6	11
K0309.06	M6	3,5	14	1	1	9	13
K0309.08	M8	5	16	1,5	1,2	15	30
K0309.10	M10	6	19	2	1,6	20	35
K0309.12	M12	8	22	2,5	2	30	55
K0309.16	M16	10	24	3,5	2,5	65	125
K0309.20	M20	12	30	4,5	2,5	80	160

KIPP Spring plungers with slot and ball, reinforced spring

Order No.	D	D1	L	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0309.203	M3	1,5	7	0,4	0,4	5	7
K0309.204	M4	2,5	9	0,8	0,6	12	22
K0309.205	M5	3	12	0,9	0,8	19	30
K0309.206	M6	3,5	14	1	1	28	40
K0309.208	M8	5	16	1,5	1,2	47	73
K0309.210	M10	6	19	2	1,6	66	100
K0309.212	M12	8	22	2,5	2	66	120
K0309.216	M16	10	24	3,5	2,5	90	180
K0309.220	M20	12	30	4,5	2,5	115	240

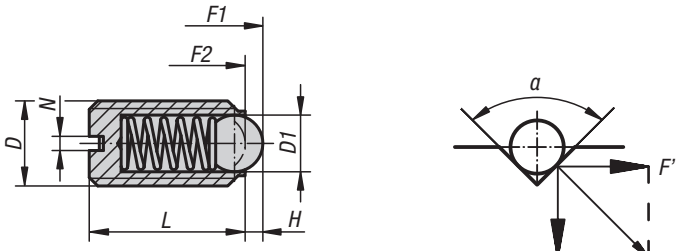
KIPP Spring plungers with slot and ball, long version, standard spring

Order No.	D	D1	L	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0309.404	M4	2,5	16	0,8	0,6	4	10
K0309.405	M5	3	20	0,9	0,8	6	11
K0309.406	M6	3,5	25	1	1	9	13
K0309.408	M8	5	30	1,5	1,2	15	30
K0309.410	M10	6	35	2	1,6	20	35
K0309.412	M12	8	40	2,5	2	30	55
K0309.416	M16	10	45	3,5	2,5	65	125

Spring plungers

with slot and ball, stainless steel





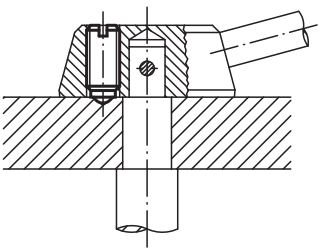
a = 60°, F' = 1,732 x F
a = 90°, F' = F
a = 120°, F' = 0,577 x F

Material:
Sleeve 1.4305.
Ball 1.4034.
Spring 1.4310.

Version:
Bright. Ball hardened.

Sample order:
K0310.203

handle indexing



Spring plungers

with slot and ball, stainless steel

KIPP Spring plungers with slot and ball, standard spring

Order No.	D	D1	L	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0310.03	M3	1,5	7	0,4	0,4	1,5	3
K0310.04	M4	2,5	9	0,8	0,6	4	10
K0310.05	M5	3	12	0,9	0,8	6	11
K0310.06	M6	3,5	14	1	1	9	13
K0310.08	M8	5	16	1,5	1,2	15	30
K0310.10	M10	6	19	2	1,6	20	35
K0310.12	M12	8	22	2,5	2	30	55
K0310.16	M16	10	24	3,5	2,5	65	125
K0310.20	M20	12	30	4,5	2,5	80	160

KIPP Spring plungers with slot and ball, reinforced spring

Order No.	D	D1	L	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0310.203	M3	1,5	7	0,4	0,4	5	7
K0310.204	M4	2,5	9	0,8	0,6	12	22
K0310.205	M5	3	12	0,9	0,8	19	30
K0310.206	M6	3,5	14	1	1	28	40
K0310.208	M8	5	16	1,5	1,2	47	73
K0310.210	M10	6	19	2	1,6	66	100
K0310.212	M12	8	22	2,5	2	66	120
K0310.216	M16	10	24	3,5	2,5	90	180
K0310.220	M20	12	30	4,5	2,5	115	240

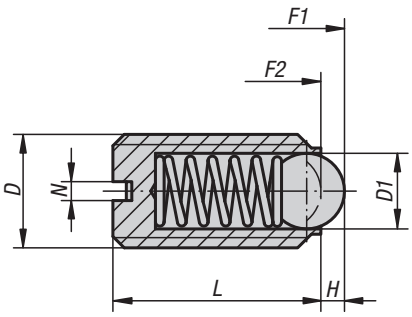
KIPP Spring plungers with slot and ball, long version, standard spring

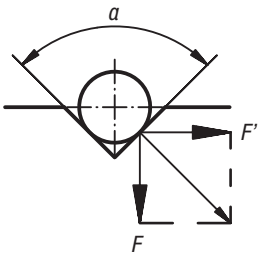
Order No.	D	D1	L	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0310.404	M4	2,5	16	0,8	0,6	4	10
K0310.405	M5	3	20	0,9	0,8	6	11
K0310.406	M6	3,5	25	1	1	9	13
K0310.408	M8	5	30	1,5	1,2	15	30
K0310.410	M10	6	35	2	1,6	20	35
K0310.412	M12	8	40	2,5	2	30	55
K0310.416	M16	10	45	3,5	2,5	65	125

K0311

Spring plungers

plastic, with slot and POM ball





a = 60°, F' = 1,732 x F
a = 90°, F' = F
a = 120°, F' = 0,577 x F



Material:
Sleeve, plastic.
Ball POM.
Spring 1.4310.

Version:
Ball, white.

Sample order:
K0311.10

Note:
Spring plungers are used for indexing and positioning. They can also be used as ejectors.

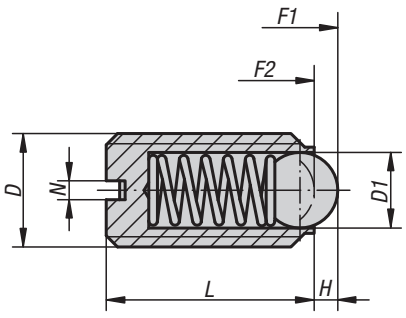
KIPP Spring plungers with slot and POM ball

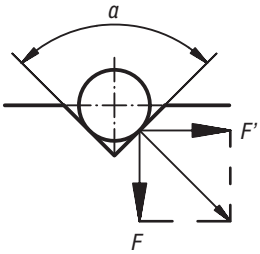
Order No.	D	D1	L	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0311.06	M6	3,5	14	1	1	9	13
K0311.08	M8	5	16	1,5	1,2	15	30
K0311.10	M10	6	19	2	1,6	20	40

K0312

Spring plungers

plastic, with slot and stainless steel ball





a = 60°, F' = 1,732 x F
a = 90°, F' = F
a = 120°, F' = 0,577 x F



Material:
Sleeve plastic.
Ball stainless steel 1.4034.
Spring 1.4310.

Version:
Ball, hardened.

Sample order:
K0312.10

Note:
Spring plungers are used for indexing and positioning. They can also be used as ejectors.

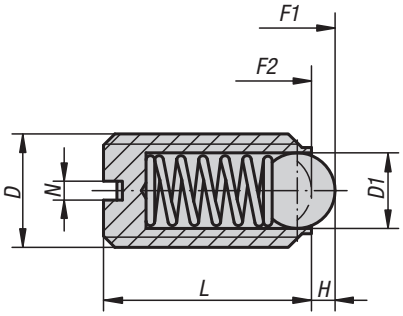
KIPP Spring plungers with slot and stainless steel ball

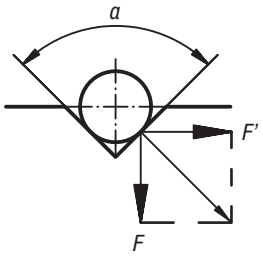
Order No.	D	D1	L	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0312.06	M6	3,5	14	1	1	9	13
K0312.08	M8	5	16	1,5	1,2	15	30
K0312.10	M10	6	19	2	1,6	20	40

Spring plungers

with slot and ceramic ball, stainless steel







α = 60°, F' = 1,732 x F
α = 90°, F' = F
α = 120°, F' = 0,577 x F

Material:
Sleeve 1.4305.
Ceramic ball Si_3N_4.
Spring 1.4310.

Version:
Bright.

Sample order:
K0609.05

Note:
The combination of excellent material properties is a special feature of silicon nitride (Si_3N_4). These include for example high resiliance and stability, excellent wear properties and good chemical resistance.

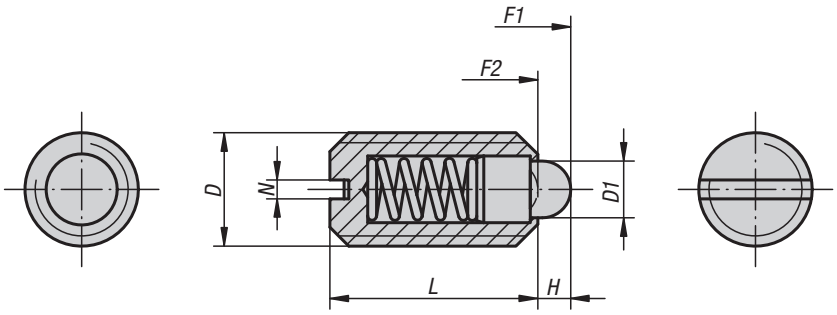
KIPP Spring plungers with slot and ceramic ball, stainless steel

Order No.	D	D1	L	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0609.05	M5	3	12	0,9	0,8	6	11
K0609.06	M6	3,5	14	1	1	9	13
K0609.08	M8	5	16	1,5	1,2	15	30
K0609.10	M10	6	19	2	1,6	20	35
K0609.12	M12	8	22	2,5	2	30	55
K0609.16	M16	10	24	3,5	2,5	65	125

Spring plungers

with slot and thrust pin, steel





Material:
Sleeve steel grade 5.8.
Thrust pin steel.
Spring steel grade D.

Version:
Black oxidised.
Thrust pin hardened.

Sample order:
K0313.10

KIPP Spring plungers with slot and thrust pin, standard spring force

Order No.	D	D1	L	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0313.04	M4	1,8	9	1,5	0,6	6	20
K0313.05	M5	2,4	12	2	0,8	6	20
K0313.06	M6	2,7	14	2	1	7	20
K0313.08	M8	4	16	2	1,2	15	30
K0313.10	M10	4,5	19	2,5	1,6	20	35
K0313.12	M12	6	22	3,5	2	30	55
K0313.16	M16	8,5	24	4,5	2,5	45	100
K0313.20	M20	10	30	6,5	2,5	60	120

KIPP Spring plungers with slot and thrust pin, light spring force

Order No.	D	D1	L	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0313.104	M4	1,8	9	1,5	0,6	3	10
K0313.105	M5	2,4	12	2	0,8	3	10
K0313.106	M6	2,7	14	2	1	4	10
K0313.108	M8	4	16	2	1,2	7	15
K0313.110	M10	4,5	19	2,5	1,6	9	16
K0313.112	M12	6	22	3,5	2	14	26
K0313.116	M16	8,5	24	4,5	2,5	22	50
K0313.120	M20	10	30	6,5	2,5	30	60

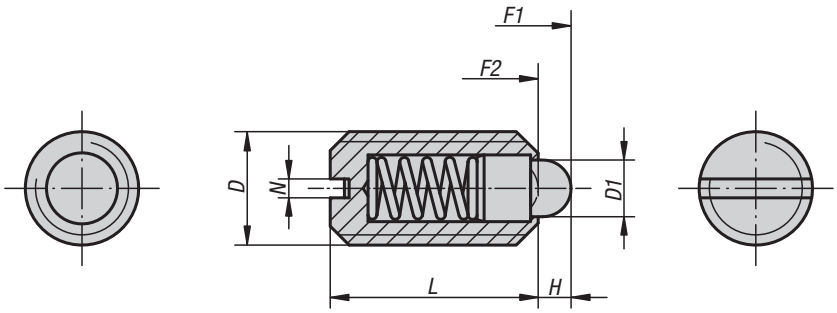
KIPP Spring plungers with slot and thrust pin, reinforced spring force

Order No.	D	D1	L	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0313.205	M5	2,4	12	2	0,8	9	25
K0313.206	M6	2,7	14	2	1	11	25
K0313.208	M8	4	16	2	1,2	22	43
K0313.210	M10	4,5	19	2,5	1,6	20	54
K0313.212	M12	6	22	3,5	2	36	94
K0313.216	M16	8,5	24	4,5	2,5	60	110

Spring plungers

with slot and thrust pin, stainless steel





Material:
Sleeve 1.4305.
Thrust pin 1.4034.
Spring 1.4310.

Version:
Bright.
Thrust pin hardened.

Sample order:
K0314.10

KIPP Spring plungers with slot and thrust pin, standard spring force

Order No.	D	D1	L	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0314.04	M4	1,8	9	1,5	0,6	6	20
K0314.05	M5	2,4	12	2	0,8	6	20
K0314.06	M6	2,7	14	2	1	7	20
K0314.08	M8	4	16	2	1,2	15	30
K0314.10	M10	4,5	19	2,5	1,6	20	35
K0314.12	M12	6	22	3,5	2	30	55
K0314.16	M16	8,5	24	4,5	2,5	45	100
K0314.20	M20	10	30	6,5	2,5	60	120

KIPP Spring plungers with slot and thrust pin, light spring force

Order No.	D	D1	L	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0314.104	M4	1,8	9	1,5	0,6	3	10
K0314.105	M5	2,4	12	2	0,8	3	10
K0314.106	M6	2,7	14	2	1	4	10
K0314.108	M8	4	16	2	1,2	7	15
K0314.110	M10	4,5	19	2,5	1,6	9	16
K0314.112	M12	6	22	3,5	2	14	26
K0314.116	M16	8,5	24	4,5	2,5	22	50
K0314.120	M20	10	30	6,5	2,5	30	60

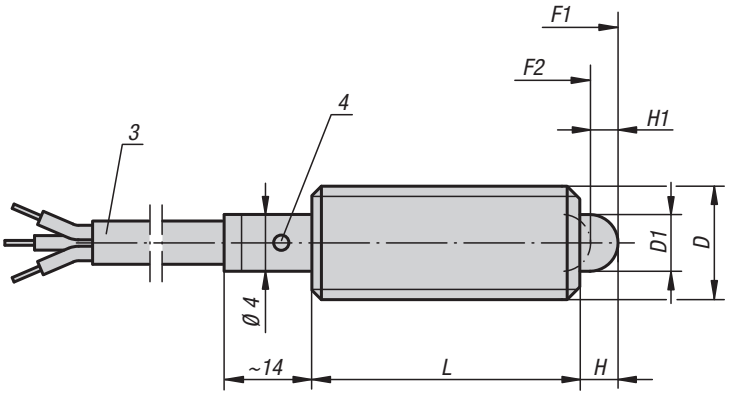
KIPP Spring plungers with slot and thrust pin, reinforced spring force

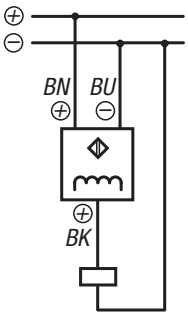
Order No.	D	D1	L	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0314.205	M5	2,4	12	2	0,8	9	25
K0314.206	M6	2,7	14	2	1	11	25
K0314.208	M8	4	16	2	1,2	22	43
K0314.210	M10	4,5	19	2,5	1,6	20	54
K0314.212	M12	6	22	3,5	2	36	94
K0314.216	M16	8,5	24	4,5	2,5	60	110

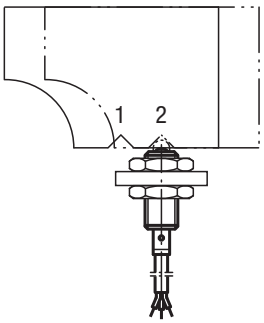
Spring plungers

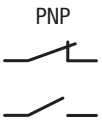
with end position feedback











Material:
Sleeve, thrust pin and spring steel.
Inductive proximity switch.

Version:
Black oxidised.
Thrust pin hardened.

Sample order:
K0656.5081

Note:
An electrical control signal can be sent via the built-in end switch.
Voltage: U = 10 – 30 V DC
Electricity: I max. = 200 mA
Temperature range: -25 °C – +70 °C
Protection class: IP 67

Safety:
Spring plungers with end position feedback are not suitable for personal protection.

Drawing reference:
3) cable Ø 3.5 mm; length ca. 2 m
4) LED-indicator

BN = brown
BK = black
BU = blue

Example of position feedback:
Pos. 1: slide engaged
Pos. 2: slide disengaged

KIPP Spring plungers with end position feedback

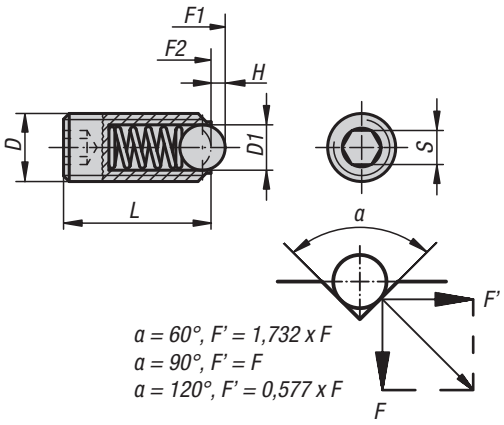
Order No.	Type	D	D1	L	H	H1	Switching contact from stroke H1	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0656.5061	normally closed	M6	2,7	27	3	2	1,2 - 1,6	7	20
K0656.5081	normally closed	M8	4	29	3	2	1,2 - 1,8	15	30
K0656.5101	normally closed	M10	4,5	36	4	3	2,2 - 2,8	26	44
K0656.5062	normally open	M6	2,7	27	3	2	1,2 - 1,6	7	20
K0656.5082	normally open	M8	4	29	3	2	1,2 - 1,8	15	30
K0656.5102	normally open	M10	4,5	36	4	3	2,2 - 2,8	26	44

Notes

Spring plungers

with hexagon socket and ball, steel



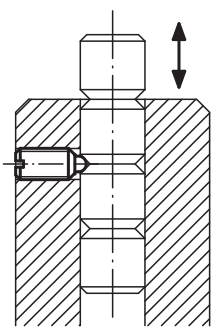


Material:
Sleeve steel grade 5.8.
Ball steel.
Spring steel grade D.

Version:
Black oxidised. Ball hardened.

Sample order:
K0315.210

column indexing



Spring plungers

with hexagon socket and ball, steel

KIPP Spring plungers with hexagon socket and ball, standard spring

Order No.	D	D1	L	H	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0315.03	M3	1,5	9	0,4	1,5	1,5	3
K0315.04	M4	2,5	10	0,8	2	4	10
K0315.05	M5	3	14	0,9	2,5	6	11
K0315.06	M6	3,5	15	1	3	9	13
K0315.08	M8	5	18	1,5	4	15	30
K0315.10	M10	6	23	2	5	20	35
K0315.12	M12	8	26	2,5	6	30	55
K0315.16	M16	10	33	3,5	8	65	125
K0315.20	M20	12	43	4,5	10	80	160
K0315.24	M24	15	48	5,5	12	90	180

KIPP Spring plungers with hexagon socket and ball, reinforced spring

Order No.	D	D1	L	H	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0315.203	M3	1,5	9	0,4	1,5	5	7
K0315.204	M4	2,5	10	0,8	2	12	22
K0315.205	M5	3	14	0,9	2,5	19	30
K0315.206	M6	3,5	15	1	3	28	40
K0315.208	M8	5	18	1,5	4	47	73
K0315.210	M10	6	23	2	5	66	100
K0315.212	M12	8	26	2,5	6	66	120
K0315.216	M16	10	33	3,5	8	90	180
K0315.220	M20	12	43	4,5	10	115	240
K0315.224	M24	15	48	5,5	12	130	270

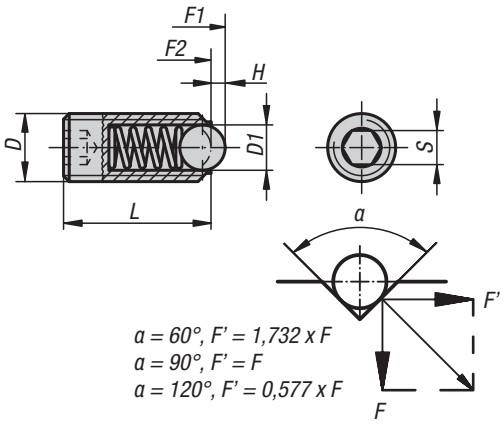
KIPP Spring plungers with hexagon socket and ball, long version, standard spring

Order No.	D	D1	L	H	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0315.404	M4	2,5	16	0,8	2	4	10
K0315.405	M5	3	20	0,9	2,5	6	11
K0315.406	M6	3,5	25	1	3	9	13
K0315.408	M8	5	30	1,5	4	15	30
K0315.410	M10	6	35	2	5	20	35
K0315.412	M12	8	40	2,5	6	30	55
K0315.416	M16	10	45	3,5	8	65	125

Spring plungers

with hexagon socket and ball, stainless steel



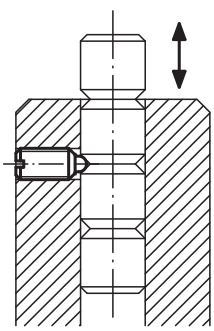


Material:
Sleeve 1.4305.
Ball 1.4034.
Spring 1.4310.

Version:
Bright. Ball hardened.

Sample order:
K0316.210

column indexing



Spring plungers

with hexagon socket and ball, stainless steel

KIPP Spring plungers with hexagon socket and ball, standard spring

Order No.	D	D1	L	H	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0316.03	M3	1,5	9	0,4	1,5	1,5	3
K0316.04	M4	2,5	10	0,8	2	4	10
K0316.05	M5	3	14	0,9	2,5	6	11
K0316.06	M6	3,5	15	1	3	9	13
K0316.08	M8	5	18	1,5	4	15	30
K0316.10	M10	6	23	2	5	20	35
K0316.12	M12	8	26	2,5	6	30	55
K0316.16	M16	10	33	3,5	8	65	125
K0316.20	M20	12	43	4,5	10	80	160
K0316.24	M24	15	48	5,5	12	90	180

KIPP Spring plungers with hexagon socket and ball, reinforced spring

Order No.	D	D1	L	H	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0316.203	M3	1,5	9	0,4	1,5	5	7
K0316.204	M4	2,5	10	0,8	2	12	22
K0316.205	M5	3	14	0,9	2,5	19	30
K0316.206	M6	3,5	15	1	3	28	40
K0316.208	M8	5	18	1,5	4	47	73
K0316.210	M10	6	23	2	5	66	100
K0316.212	M12	8	26	2,5	6	66	120
K0316.216	M16	10	33	3,5	8	90	180
K0316.220	M20	12	43	4,5	10	115	240
K0316.224	M24	15	48	5,5	12	130	270

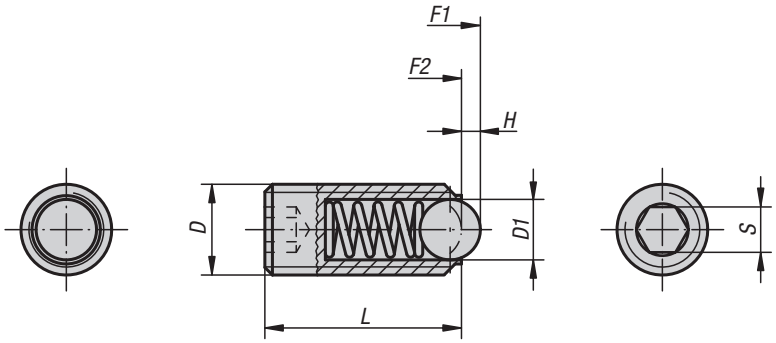
KIPP Spring plungers with hexagon socket and ball, long version, standard spring

Order No.	D	D1	L	H	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0316.404	M4	2,5	16	0,8	2	4	10
K0316.405	M5	3	20	0,9	2,5	6	11
K0316.406	M6	3,5	25	1	3	9	13
K0316.408	M8	5	30	1,5	4	15	30
K0316.410	M10	6	35	2	5	20	35
K0316.412	M12	8	40	2,5	6	30	55
K0316.416	M16	10	45	3,5	8	65	125

Spring plungers

with hexagon socket and ceramic ball





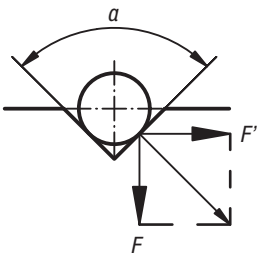
Material:
Sleeve 1.4305.
Ceramic ball Si_3N_4.
Spring 1.4310.

Version:
Bright.

Sample order:
K0610.05

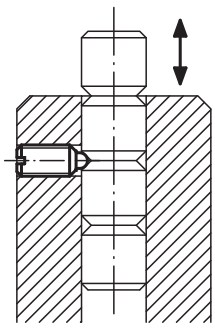
Note:
The combination of excellent material properties is a special feature of silicon nitride (Si_3N_4). These include for example high resiliance and stability, excellent wear properties and good chemical resistance.

Advantages:
High temperature resistance.



α = 60°, F' = 1,732 x F
α = 90°, F' = F
α = 120°, F' = 0,577 x F

column indexing

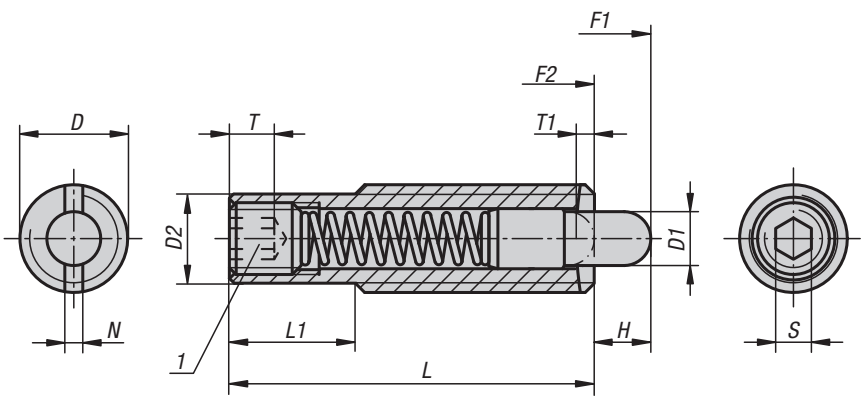


KIPP Spring plungers with hexagon socket and ceramic ball

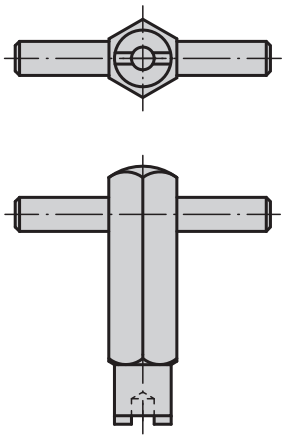
Order No.	D	D1	L	H	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0610.05	M5	3	14	0,9	2,5	6	11
K0610.06	M6	3,5	15	1	3	9	13
K0610.08	M8	5	18	1,5	4	15	30
K0610.10	M10	6	23	2	5	20	35
K0610.12	M12	8	26	2,5	6	30	55
K0610.16	M16	10	33	3,5	8	65	125

Spring plungers

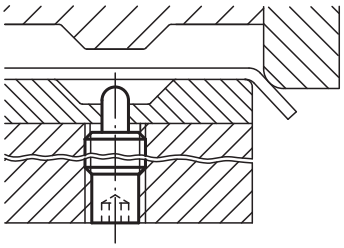
with hexagon socket and thrust pin, long version



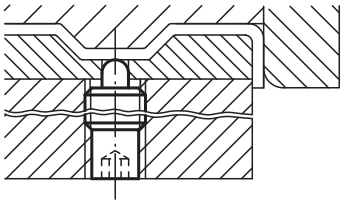




bending



ready to eject



Material:
Sleeve steel grade 5.8.
Thrust pin steel.
Spring steel grade D.

Version:
Black oxidised.
Thrust pin hardened.

Sample order:
K0657.616

Note:
These spring plungers are chiefly used as ejectors and spring stops in machine construction.

Drawing reference:
1) grub screw glued in

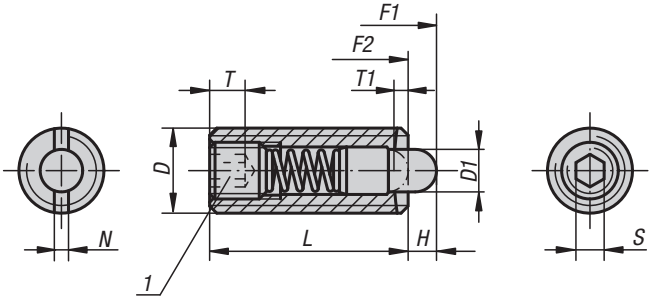
KIPP Spring thrust pin with hexagon socket and thrust pin, long version

Order No.	D	D1	D2	L	L1	H	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. assembly key
K0657.608X30	M8	3,5	6,2	30	10	6	2	1,4	1,2	2,5	8	20	K0317.908
K0657.608X40	M8	3,5	6,2	40	20	8	2	1,4	1,2	2,5	10	28	K0317.908
K0657.608X50	M8	3,5	6,2	50	30	10	2	1,4	1,2	2,5	12	38	K0317.908
K0657.608X60	M8	3,5	6,2	60	40	15	2	1,4	1,2	2,5	15	45	K0317.908
K0657.610X40	M10	4	8	40	10	8	2	1,4	1,6	3	12	30	K0317.910
K0657.610X50	M10	4	8	50	20	10	2	1,4	1,6	3	16	46	K0317.910
K0657.610X60	M10	4	8	60	30	15	2	1,4	1,6	3	20	55	K0317.910
K0657.610X80	M10	4	8	80	50	20	2	1,4	1,6	3	25	65	K0317.910
K0657.612X50	M12	6	9,6	50	20	10	3	2	2	4	20	50	K0317.912
K0657.612X60	M12	6	9,6	60	30	15	3	2	2	4	25	76	K0317.912
K0657.612X80	M12	6	9,6	80	50	20	3	2	2	4	35	102	K0317.912
K0657.612X100	M12	6	9,6	100	70	25	3	2	2	4	40	102	K0317.912
K0657.616X60	M16	7,5	13,4	60	30	12	6	2,5	2,5	5	30	64	K0317.916
K0657.616X80	M16	7,5	13,4	80	50	20	6	2,5	2,5	5	30	110	K0317.916
K0657.616X100	M16	7,5	13,4	100	70	30	6	2,5	2,5	5	30	120	K0317.916
K0657.616X120	M16	7,5	13,4	120	90	40	6	2,5	2,5	5	20	130	K0317.916

Spring plungers

with hexagon socket and thrust pin, steel



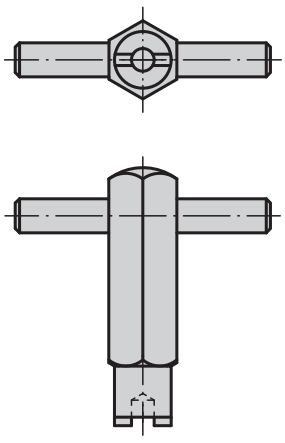


Material:
Sleeve steel grade 5.8.
Thrust pin steel.
Spring steel grade D.

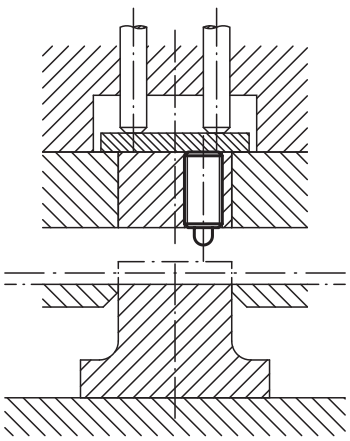
Version:
Black oxidised.
Thrust pin hardened.

Sample order:
K0317.16

Drawing reference:
1) grub screw glued in



Spring plunger
sectional view



Spring plungers

with hexagon socket and thrust pin, steel

KIPP Spring plungers with hexagon socket and thrust pin, standard spring force

Order No.	D	D1	L	H	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. assembly key
K0317.03	M3	1	10	1,5	1,5	1	0,4	0,7	0,5	3	K0317.903
K0317.04	M4	1,5	15	1,5	2	0,6	0,6	1,3	5	16	K0317.904
K0317.05	M5	2,4	18	2,3	2	0,8	0,8	1,5	6	20	K0317.905
K0317.06	M6	2,7	20	2,5	2,5	1	1	2	7	20	K0317.906
K0317.08	M8	3,5	22	3	3	1,4	1,2	2,5	9	35	K0317.908
K0317.10	M10	4	22	3	3,5	1,4	1,6	3	9	35	K0317.910
K0317.12	M12	6	28	4	5	2	2	4	12	55	K0317.912
K0317.16	M16	7,5	32	5	6	2,5	2,5	5	45	100	K0317.916
K0317.20	M20	10	40	7	8	3	2,5	6	60	120	-
K0317.24	M24	12	52	10	10	3	2,5	8	80	160	-

KIPP Spring plungers with hexagon socket and thrust pin, light spring force

Order No.	D	D1	L	H	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. assembly key
K0317.104	M4	1,5	15	1,5	2	0,6	0,6	1,3	2	7	K0317.904
K0317.105	M5	2,4	18	2,3	2	0,8	0,8	1,5	3	10	K0317.905
K0317.106	M6	2,7	20	2,5	2,5	1	1	2	3	9	K0317.906
K0317.108	M8	3,5	22	3	3	1,4	1,2	2,5	4	16	K0317.908
K0317.110	M10	4	22	3	3,5	1,4	1,6	3	4	16	K0317.910
K0317.112	M12	6	28	4	5	2	2	4	5	27	K0317.912
K0317.116	M16	7,5	32	5	6	2,5	2,5	5	20	45	K0317.916

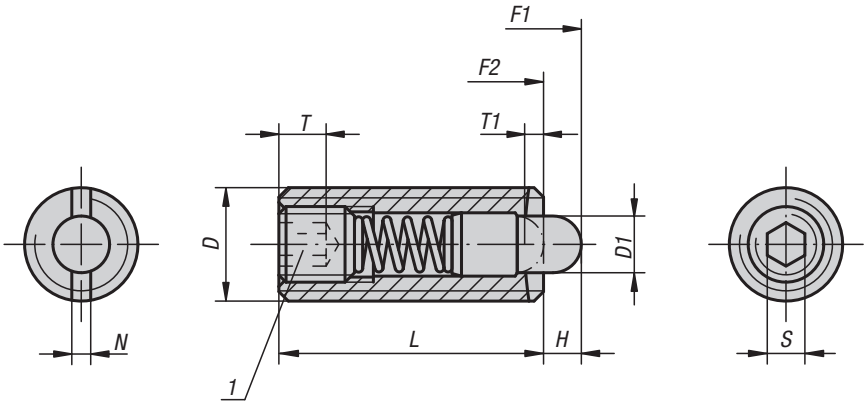
KIPP Spring plungers with hexagon socket and thrust pin, reinforced spring force

Order No.	D	D1	L	H	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. assembly key
K0317.205	M5	2,4	18	2,3	2	0,8	0,8	1,5	11	29	K0317.905
K0317.206	M6	2,7	20	2,5	2,5	1	1	2	14	37	K0317.906
K0317.208	M8	3,5	22	3	3	1,4	1,2	2,5	22	65	K0317.908
K0317.210	M10	4	22	3	3,5	1,4	1,6	3	19	70	K0317.910
K0317.212	M12	6	28	4	5	2	2	4	25	85	K0317.912
K0317.216	M16	7,5	32	5	6	2,5	2,5	5	60	150	K0317.916
K0317.220	M20	10	40	7	8	3	2,5	6	75	190	-
K0317.224	M24	12	52	10	10	3	2,5	8	95	240	-

Spring plungers

with hexagon socket and POM thrust pin, steel



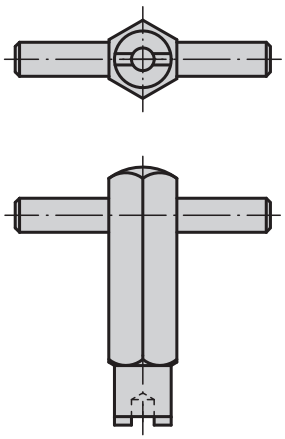


Material:
Sleeve steel grade 5.8.
Thrust pin POM.
Spring steel grade D.

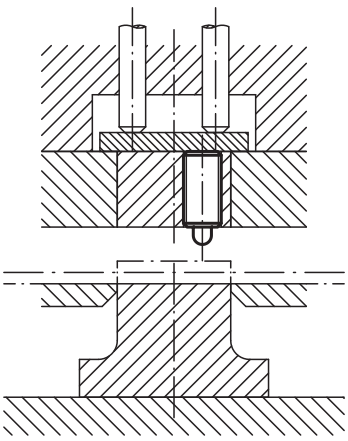
Version:
Black oxidised.

Sample order:
K0318.16

Drawing reference:
1) grub screw glued in



Spring plunger
sectional view



Spring plungers

with hexagon socket and POM thrust pin, steel

KIPP Spring plungers with hexagon socket and thrust pin, standard spring force

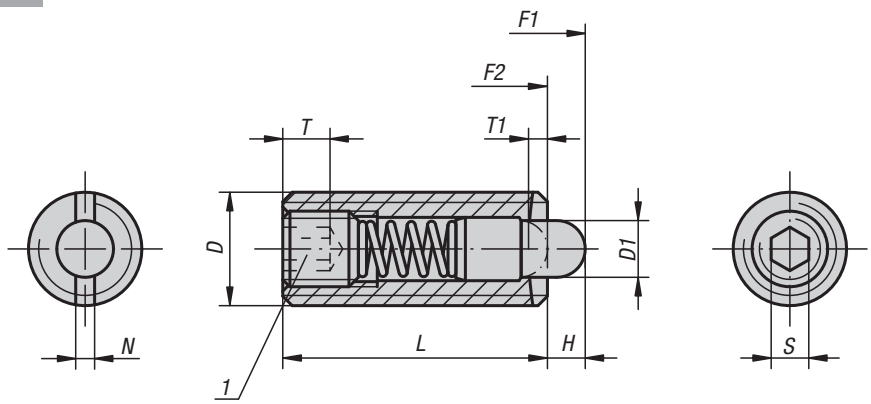
Order No.	D	D1	L	H	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. assembly key
K0318.03	M3	1	10	1,5	1,5	1	0,4	0,7	0,5	3	K0317.903
K0318.04	M4	1,5	15	1,5	2	0,6	0,6	1,3	5	16	K0317.904
K0318.05	M5	2,4	18	2,3	2	0,8	0,8	1,5	6	20	K0317.905
K0318.06	M6	2,7	20	2,5	2,5	1	1	2	7	20	K0317.906
K0318.08	M8	3,5	22	3	3	1,4	1,2	2,5	9	35	K0317.908
K0318.10	M10	4	22	3	3,5	1,4	1,6	3	9	35	K0317.910
K0318.12	M12	6	28	4	5	2	2	4	12	55	K0317.912
K0318.16	M16	7,5	32	5	6	2,5	2,5	5	45	100	K0317.916

KIPP Spring plungers with hexagon socket and thrust pin, light spring force

Order No.	D	D1	L	H	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. assembly key
K0318.104	M4	1,5	15	1,5	2	0,6	0,6	1,3	2	7	K0317.904
K0318.105	M5	2,4	18	2,3	2	0,8	0,8	1,5	3	10	K0317.905
K0318.106	M6	2,7	20	2,5	2,5	1	1	2	3	9	K0317.906
K0318.108	M8	3,5	22	3	3	1,4	1,2	2,5	4	16	K0317.908
K0318.110	M10	4	22	3	3,5	1,4	1,6	3	4	16	K0317.910
K0318.112	M12	6	28	4	5	2	2	4	5	27	K0317.912
K0318.116	M16	7,5	32	5	6	2,5	2,5	5	20	45	K0317.916

Spring plungers

with hexagon socket and thrust pin, stainless steel



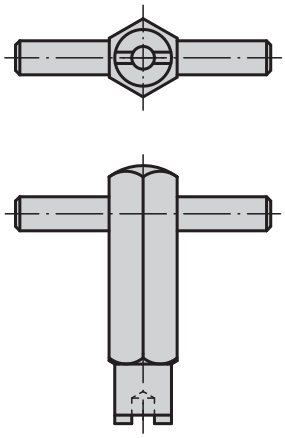


Material:
Sleeve 1.4305.
Thrust pin 1.4034.
Spring 1.4310.

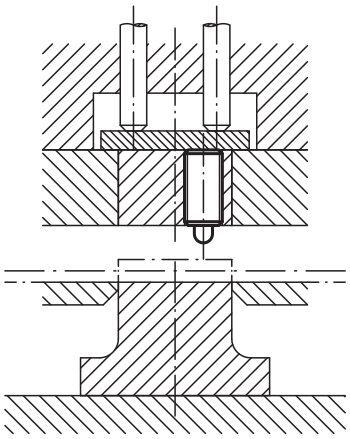
Version:
Bright.
Thrust pin hardened.

Sample order:
K0319.16

Drawing reference:
1) grub screw glued in



Spring plunger
sectional view



KIPP Spring plungers with hexagon socket and thrust pin, standard spring force

Order No.	D	D1	L	H	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. assembly key
K0319.03	M3	1	10	1,5	1,5	1	0,4	0,7	0,5	3	K0317.903
K0319.04	M4	1,5	15	1,5	2	0,6	0,6	1,3	5	16	K0317.904
K0319.05	M5	2,4	18	2,3	2	0,8	0,8	1,5	5	17	K0317.905
K0319.06	M6	2,7	20	2,5	2,5	1	1	2	6	17	K0317.906
K0319.08	M8	3,5	22	3	3	1,4	1,2	2,5	7	29	K0317.908
K0319.10	M10	4	22	3	3,5	1,4	1,6	3	8	31	K0317.910
K0319.12	M12	6	28	4	5	2	2	4	10	47	K0317.912
K0319.16	M16	7,5	32	5	6	2,5	2,5	5	45	100	K0317.916

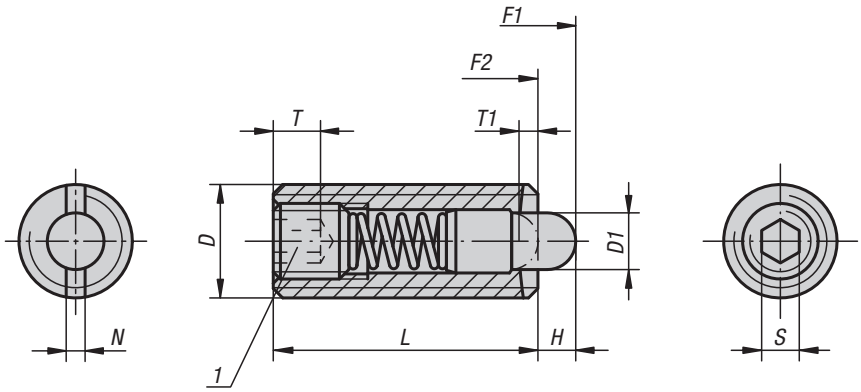
KIPP Spring plungers with hexagon socket and thrust pin, reinforced spring force

Order No.	D	D1	L	H	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. assembly key
K0319.205	M5	2,4	18	2,3	2	0,8	0,8	1,5	9	26	K0317.905
K0319.206	M6	2,7	20	2,5	2,5	1	1	2	11	35	K0317.906
K0319.208	M8	3,5	22	3	3	1,4	1,2	2,5	15	48	K0317.908
K0319.210	M10	4	22	3	3,5	1,4	1,6	3	15	58	K0317.910
K0319.212	M12	6	28	4	5	2	2	4	19	74	K0317.912

Spring plungers

with hexagon socket and POM thrust pin, stainless steel



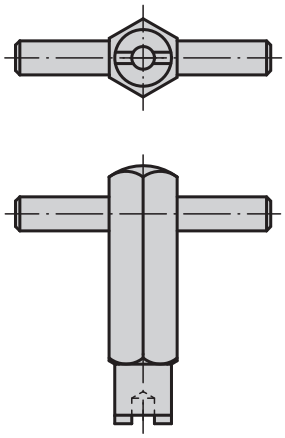


Material:
Stainless steel sleeve 1.4305.
Thrust pin POM.
Stainless steel spring 1.4310.

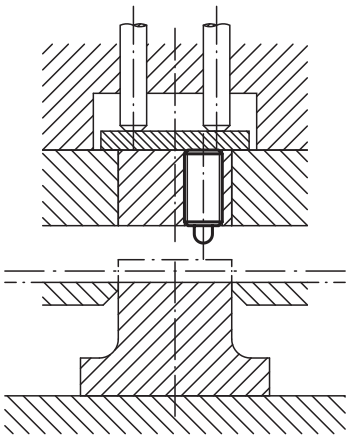
Version:
Bright.

Sample order:
K0320.16

Drawing reference:
1) grub screw glued in



Spring plunger
sectional view



KIPP Spring plungers with hexagon socket and POM thrust pin, stainless steel

Order No.	D	D1	L	H	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. assembly key
K0320.03	M3	1	10	1,5	1,5	1	0,4	0,7	0,5	3	K0317.903
K0320.04	M4	1,5	15	1,5	2	0,6	0,6	1,3	5	16	K0317.904
K0320.05	M5	2,4	18	2,3	2	0,8	0,8	1,5	5	17	K0317.905
K0320.06	M6	2,7	20	2,5	2,5	1	1	2	6	17	K0317.906
K0320.08	M8	3,5	22	3	3	1,4	1,2	2,5	7	29	K0317.908
K0320.10	M10	4	22	3	3,5	1,4	1,6	3	8	31	K0317.910
K0320.12	M12	6	28	4	5	2	2	4	10	47	K0317.912
K0320.16	M16	7,5	32	5	6	2,5	2,5	5	45	100	K0317.916

Spring plungers with LONG-LOK thread lock



LONG-LOK, the most advanced thread locking mechanism

With the following crucial advantages:

1. Vibration resistant.

The integrated LONG-LOK thread lock secures spring plungers rationally and economically. No loosening or falling out after impacts, knocks or vibrations.

2. Extremly high loosening torque.

The elastic nylon insert is squeezed like a wedge between the internal and external threads. The nylon locking system pushes the play between the threads to one side causing surface pressure on the thread flanks. The resulting loosening torque is higher than that by most conventional mechanical methods.

3. Secure in every position.

The LONG-LOK thread lock requires neither initial tension nor any defined position. This is ideal for the positioning of the spring plungers.

4. Saves assembly time and stocking space.

The LONG-LOK thread lock is integrated into spring plungers. There are no additional components. No circlips, no spring washers, no locking nuts. As a result, assembly and stocking costs are reduced considerably.

5. For repeated use.

When using the LONG-LOK thread lock for the first time, it requires a slightly higher screw-in torque. After third or fourth use, the last reached value remains nearly constant.

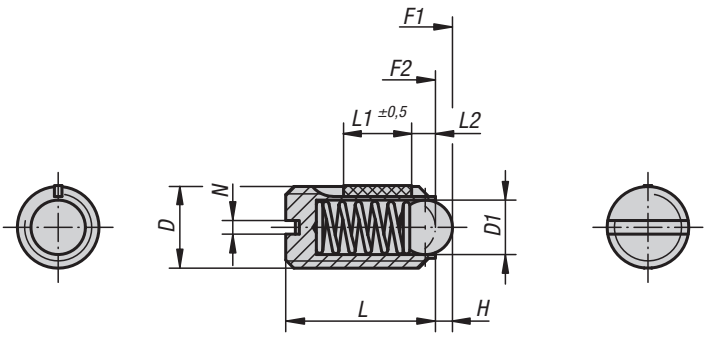
6. Problem solver from M3 to M16.

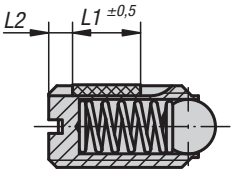
Light-weight or heavy-weight: name your requirements! We will supply you with the suitable spring plungers with integrated LONG-LOK thread lock.



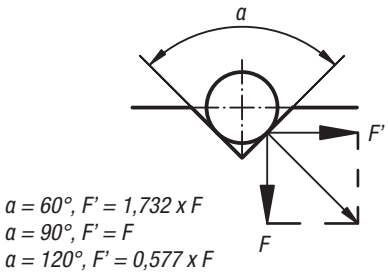
Spring plungers

with slot and ball, LONG-LOK secured, steel





D = M3, M4, M5, M6



α = 60°, F' = 1,732 x F
α = 90°, F' = F
α = 120°, F' = 0,577 x F



Material:
Sleeve steel grade 5.8.
Ball steel.
Spring steel grade D.

LONG-LOK thread lock nylon.

Version:
Black oxidised. Ball hardened.

Sample order:
K0321.12

Drawing reference:
L2 = approx. 2x thread pitch

KIPP Spring plungers with slot and ball, standard spring, LONG-LOK secured

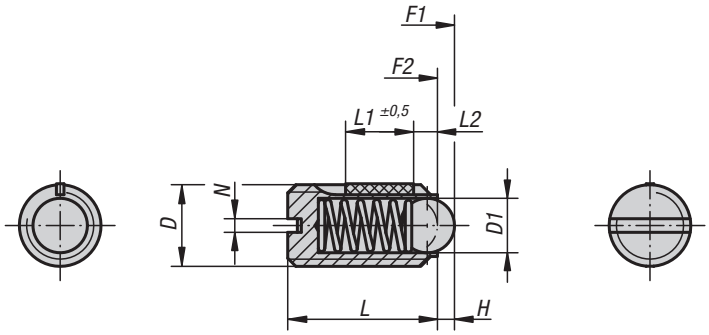
Order No.	D	D1	L	L1	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm
K0321.03	M3	1,5	7	4	0,4	0,4	1,5	3	0,1	0,07
K0321.04	M4	2,5	9	5	0,8	0,6	4	10	0,18	0,12
K0321.05	M5	3	12	6	0,9	0,8	6	11	0,12	0,08
K0321.06	M6	3,5	14	7	1	1	9	13	0,43	0,21
K0321.08	M8	5	16	8	1,5	1,2	15	30	1,09	0,37
K0321.10	M10	6	19	9	2	1,6	20	35	1,36	0,62
K0321.12	M12	8	22	10	2,5	2	30	55	2,03	1,36
K0321.16	M16	10	24	14	3,5	2,5	65	125	3,95	2,95

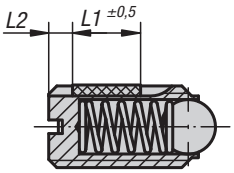
KIPP Spring plungers with slot and ball, reinforced spring, LONG-LOK secured

Order No.	D	D1	L	L1	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm
K0321.203	M3	1,5	7	4	0,4	0,4	5	7	0,1	0,07
K0321.204	M4	2,5	9	5	0,8	0,6	12	22	0,18	0,12
K0321.205	M5	3	12	6	0,9	0,8	19	30	0,12	0,08
K0321.206	M6	3,5	14	7	1	1	28	40	0,43	0,21
K0321.208	M8	5	16	8	1,5	1,2	47	73	1,09	0,37
K0321.210	M10	6	19	9	2	1,6	66	100	1,36	0,62
K0321.212	M12	8	22	10	2,5	2	66	120	2,03	1,36
K0321.216	M16	10	24	14	3,5	2,5	90	180	3,95	2,95

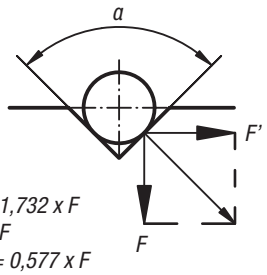
Spring plungers

with slot and ball, LONG-LOK secured, stainless steel





D = M3, M4, M5, M6



a = 60°, F' = 1,732 x F
a = 90°, F' = F
a = 120°, F' = 0,577 x F



Material:
Sleeve 1.4305.
Ball 1.4034.
Spring 1.4310.

LONG-LOK thread lock in nylon.

Version:
Bright. Ball hardened.

Sample order:
K0322.12

Drawing reference:
L2 = approx. 2x thread pitch

KIPP Spring plungers with slot and ball, standard spring, LONG-LOK secured

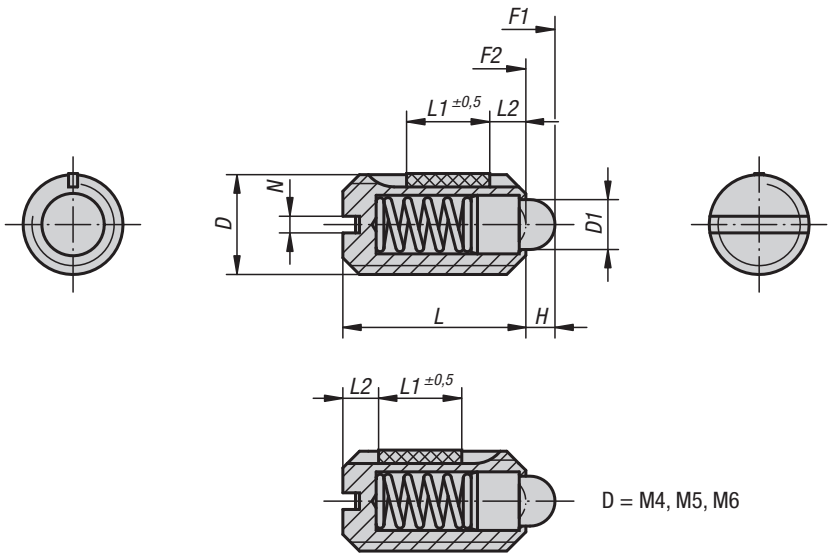
Order No.	D	D1	L	L1	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm
K0322.03	M3	1,5	7	4	0,4	0,4	1,5	3	0,1	0,07
K0322.04	M4	2,5	9	5	0,8	0,6	4	10	0,18	0,12
K0322.05	M5	3	12	6	0,9	0,8	6	11	0,12	-
K0322.06	M6	3,5	14	7	1	1	9	13	0,43	0,21
K0322.08	M8	5	16	8	1,5	1,2	15	30	1,09	0,37
K0322.10	M10	6	19	9	2	1,6	20	35	1,36	0,62
K0322.12	M12	8	22	10	2,5	2	30	55	2,03	1,36
K0322.16	M16	10	24	14	3,5	2,5	65	125	3,95	2,95

KIPP Spring plungers with slot and ball, reinforced spring, LONG-LOK secured

Order No.	D	D1	L	L1	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm
K0322.203	M3	1,5	7	4	0,4	0,4	5	7	0,1	0,07
K0322.204	M4	2,5	9	5	0,8	0,6	12	22	0,18	0,12
K0322.205	M5	3	12	6	0,9	0,8	19	30	0,12	0,08
K0322.206	M6	3,5	14	7	1	1	28	40	0,43	0,21
K0322.208	M8	5	16	8	1,5	1,2	47	73	1,09	0,37
K0322.210	M10	6	19	9	2	1,6	66	100	1,36	0,62
K0322.212	M12	8	22	10	2,5	2	66	120	2,03	1,36
K0322.216	M16	10	24	14	3,5	2,5	90	180	3,95	2,95

Spring plungers

with slot and thrust pin, LONG-LOK secured, steel



D = M4, M5, M6



Material:
Sleeve steel grade 5.8.
Thrust pin steel.
Spring steel grade D.

LONG-LOK thread lock nylon.

Version:
Black oxidised.
Thrust pin hardened.

Sample order:
K0323.10

Drawing reference:
L2 = approx. 2x thread pitch

KIPP Spring plungers with slot and thrust pin, standard spring force, LONG-LOK secured

Order No.	D	D1	L	L1	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm
K0323.04	M4	1,8	9	5	1,5	0,6	6	20	0,18	0,12
K0323.05	M5	2,4	12	6	2	0,8	6	20	0,12	0,08
K0323.06	M6	2,7	14	7	2	1	7	20	0,44	0,21
K0323.08	M8	4	16	8	2	1,2	15	30	1,1	0,38
K0323.10	M10	4,5	19	9	2,5	1,6	20	35	1,36	0,62
K0323.12	M12	6	22	10	3,5	2	30	55	2,11	1,41
K0323.16	M16	8,5	24	14	4,5	2,5	45	100	3,95	3,05

KIPP Spring plungers with slot and thrust pin, light spring force, LONG-LOK secured

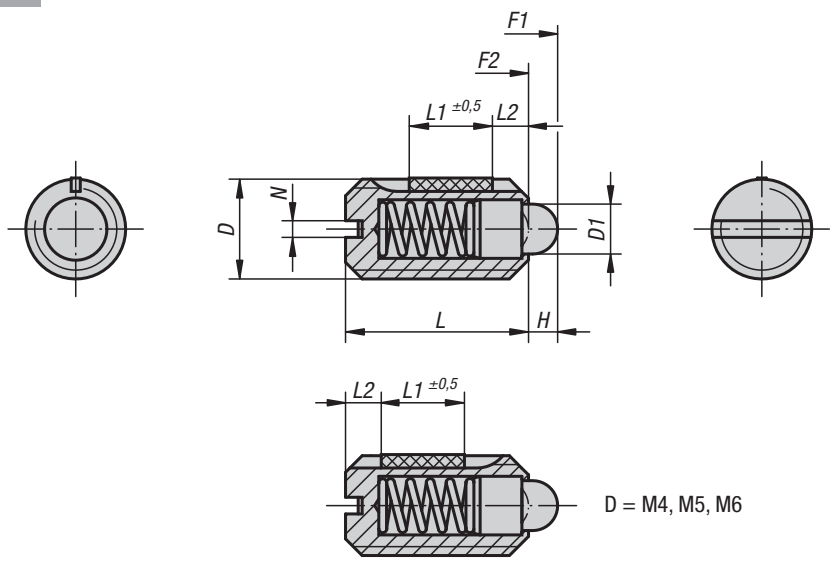
Order No.	D	D1	L	L1	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm
K0323.104	M4	1,8	9	5	1,5	0,6	3	10	0,18	0,12
K0323.105	M5	2,4	12	6	2	0,8	3	10	0,12	0,08
K0323.106	M6	2,7	14	7	2	1	4	10	0,44	0,21
K0323.108	M8	4	16	8	2	1,2	7	15	1,1	0,38
K0323.110	M10	4,5	19	9	2,5	1,6	9	16	1,36	0,62
K0323.112	M12	6	22	10	3,5	2	14	26	2,11	1,41
K0323.116	M16	8,5	24	14	4,5	2,5	22	50	3,95	3,05

KIPP Spring plungers with slot and thrust pin, reinforced spring force, LONG-LOK secured

Order No.	D	D1	L	L1	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm
K0323.205	M5	2,4	12	6	2	0,8	9	25	0,12	0,08
K0323.206	M6	2,7	14	7	2	1	11	25	0,44	0,21
K0323.208	M8	4	16	8	2	1,2	22	43	1,1	0,38
K0323.210	M10	4,5	19	9	2,5	1,6	20	54	1,36	0,62
K0323.212	M12	6	22	10	3,5	2	36	94	2,11	1,41
K0323.216	M16	8,5	24	14	4,5	2,5	60	110	3,99	3,05

Spring plungers

with slot and thrust pin, LONG-LOK secured, stainless steel



D = M4, M5, M6



Material:
Sleeve 1.4305.
Thrust pin 1.4034.
Spring 1.4310.

LONG-LOK thread lock in nylon.

Version:
Bright.
Thrust pin hardened.

Sample order:
K0324.10

Drawing reference:
L2 = approx. 2x thread pitch

KIPP Spring plungers with slot and thrust pin, standard spring force, LONG-LOK secured

Order No.	D	D1	L	L1	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm
K0324.04	M4	1,8	9	5	1,5	0,6	6	20	0,18	0,12
K0324.05	M5	2,4	12	6	2	0,8	6	20	0,12	0,08
K0324.06	M6	2,7	14	7	2	1	7	20	0,44	0,21
K0324.08	M8	4	16	8	2	1,2	15	30	1,1	0,38
K0324.10	M10	4,5	19	9	2,5	1,6	20	35	1,36	0,62
K0324.12	M12	6	22	10	3,5	2	30	55	2,11	1,41
K0324.16	M16	8,5	24	14	4,5	2,5	45	100	3,95	3,05

KIPP Spring plungers with slot and thrust pin, light spring force, LONG-LOK secured

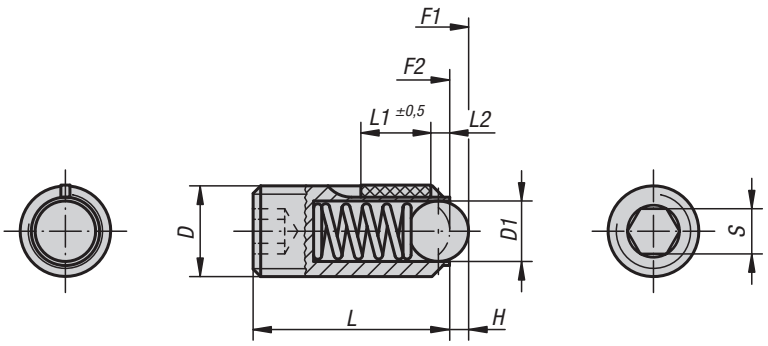
Order No.	D	D1	L	L1	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm
K0324.104	M4	1,8	9	5	1,5	0,6	3	10	0,18	0,12
K0324.105	M5	2,4	12	6	2	0,8	3	10	0,12	0,08
K0324.106	M6	2,7	14	7	2	1	4	10	0,44	0,21
K0324.108	M8	4	16	8	2	1,2	7	15	1,1	0,38
K0324.110	M10	4,5	19	9	2,5	1,6	9	16	1,36	0,62
K0324.112	M12	6	22	10	3,5	2	14	26	2,11	1,41
K0324.116	M16	8,5	24	14	4,5	2,5	22	50	3,95	3,05

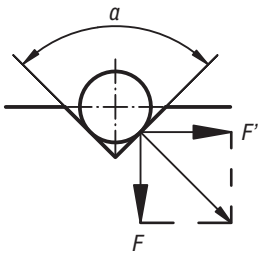
KIPP Spring plungers with slot and thrust pin, reinforced spring force, LONG-LOK secured

Order No.	D	D1	L	L1	H	N	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm
K0324.205	M5	2,4	12	6	2	0,8	9	25	0,12	0,08
K0324.206	M6	2,7	14	7	2	1	11	25	0,44	0,21
K0324.208	M8	4	16	8	2	1,2	22	43	1,1	0,38
K0324.210	M10	4,5	19	9	2,5	1,6	20	54	1,36	0,62
K0324.212	M12	6	22	10	3,5	2	36	94	2,11	1,41
K0324.216	M16	8,5	24	14	4,5	2,5	60	110	3,99	3,05

Spring plungers

with hexagon socket and ball, LONG-LOK secured, steel





a = 60°, F' = 1,732 x F
a = 90°, F' = F
a = 120°, F' = 0,577 x F



Material:
Sleeve steel grade 5.8.
Ball steel.
Spring steel grade D.

LONG-LOK thread lock nylon.

Version:
Black oxidised. Ball hardened.

Sample order:
K0325.08

Drawing reference:
L2 = approx. 2x thread pitch

KIPP Spring plungers with hexagon socket and ball, standard spring, LONG-LOK secured

Order No.	D	D1	L	L1	H	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm
K0325.03	M3	1,5	9	4	0,4	1,5	1,5	3	0,1	0,07
K0325.04	M4	2,5	10	5	0,8	2	4	10	0,18	0,12
K0325.05	M5	3	14	6	0,9	2,5	6	11	0,12	0,08
K0325.06	M6	3,5	15	7	1	3	9	13	0,44	0,21
K0325.08	M8	5	18	8	1,5	4	15	30	1,1	0,38
K0325.10	M10	6	23	9	2	5	20	35	1,3	0,6
K0325.12	M12	8	26	10	2,5	6	30	55	2	1,3
K0325.16	M16	10	33	14	3,5	8	65	125	3,9	3

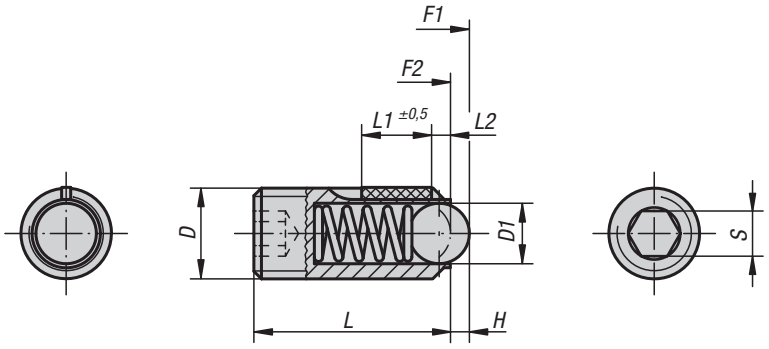
KIPP Spring plungers with hexagon socket and ball, reinforced spring, LONG-LOK secured

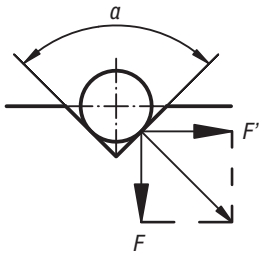
Order No.	D	D1	L	L1	H	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm
K0325.203	M3	1,5	9	4	0,4	1,5	5	7	0,1	0,07
K0325.204	M4	2,5	10	5	0,8	2	12	22	0,18	0,12
K0325.205	M5	3	14	6	0,9	2,5	19	30	0,12	0,08
K0325.206	M6	3,5	15	7	1	3	28	40	0,44	0,21
K0325.208	M8	5	18	8	1,5	4	47	73	1,1	0,38
K0325.210	M10	6	23	9	2	5	66	100	1,3	0,6
K0325.212	M12	8	26	10	2,5	6	66	120	2	1,3
K0325.216	M16	10	33	14	3,5	8	90	180	3,9	3

Spring plungers

with hexagon socket and ball, LONG-LOK secured stainless steel







a = 60°, F' = 1,732 x F
a = 90°, F' = F
a = 120°, F' = 0,577 x F

Material:
Sleeve 1.4305.
Ball 1.4034.
Spring 1.4310.

LONG-LOK thread lock in nylon.

Version:
Bright. Ball hardened.

Sample order:
K0326.08

Drawing reference:
L2 = approx. 2x thread pitch

KIPP Spring plungers with hexagon socket and ball, standard spring, LONG-LOK secured

Order No.	D	D1	L	L1	H	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm
K0326.03	M3	1,5	9	4	0,4	1,5	1,5	3	0,1	0,07
K0326.04	M4	2,5	10	5	0,8	2	4	10	0,18	0,12
K0326.05	M5	3	14	6	0,9	2,5	6	11	0,12	0,08
K0326.06	M6	3,5	15	7	1	3	9	13	0,44	0,21
K0326.08	M8	5	18	8	1,5	4	15	30	1,1	0,38
K0326.10	M10	6	23	9	2	5	20	35	1,3	0,6
K0326.12	M12	8	26	10	2,5	6	30	55	2	1,3
K0326.16	M16	10	33	14	3,5	8	65	125	3,9	3

KIPP Spring plungers with hexagon socket and ball, reinforced spring, LONG-LOK secured

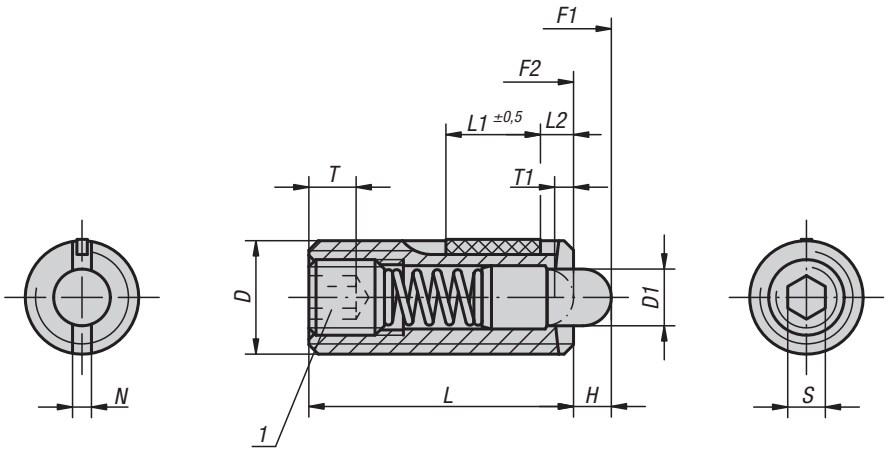
Order No.	D	D1	L	L1	H	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm
K0326.203	M3	1,5	9	4	0,4	1,5	5	7	0,1	0,07
K0326.204	M4	2,5	10	5	0,8	2	12	22	0,18	0,12
K0326.205	M5	3	14	6	0,9	2,5	19	30	0,12	0,08
K0326.206	M6	3,5	15	7	1	3	28	40	0,44	0,21
K0326.208	M8	5	18	8	1,5	4	47	73	1,1	0,38
K0326.210	M10	6	23	9	2	5	66	100	1,3	0,6
K0326.212	M12	8	26	10	2,5	6	66	120	2	1,3
K0326.216	M16	10	33	14	3,5	8	90	180	3,9	3

Notes

Spring plungers

with hexagon socket and thrust pin, LONG-LOK secured, steel





Material:
Sleeve steel grade 5.8.
Thrust pin steel.
Spring steel grade D.

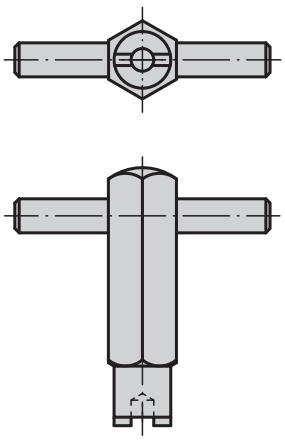
LONG-LOK thread lock nylon.

Version:
Black oxidised.
Thrust pin hardened.

Sample order:
K0327.12

Drawing reference:
L2 = ca. two full threads

1) glued-in grub screw



Spring plungers

with hexagon socket and thrust pin, LONG-LOK secured, steel

KIPP Spring plungers with hexagon socket and thrust pin, standard spring force, LONG-LOK secured

Order No.	D	D1	L	L1	H	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm	Order No. assembly key
K0327.05	M5	2,4	18	7	2,3	2	0,8	0,8	1,5	6	20	0,12	0,08	K0317.905
K0327.06	M6	2,7	20	7	2,5	2,5	1	1	2	7	20	0,45	0,22	K0317.906
K0327.08	M8	3,5	22	8	3	3	1,4	1,2	2,5	9	35	1,05	0,37	K0317.908
K0327.10	M10	4	22	9	3	3,5	1,4	1,6	3	9	35	1,3	0,6	K0317.910
K0327.12	M12	6	28	10	4	5	2	2	4	12	55	2	1,3	K0317.912
K0327.16	M16	7,5	32	14	5	6	2,5	2,5	5	45	100	3,9	3	K0317.916

KIPP Spring plungers with hexagon socket and thrust pin, light spring force, LONG-LOK secured

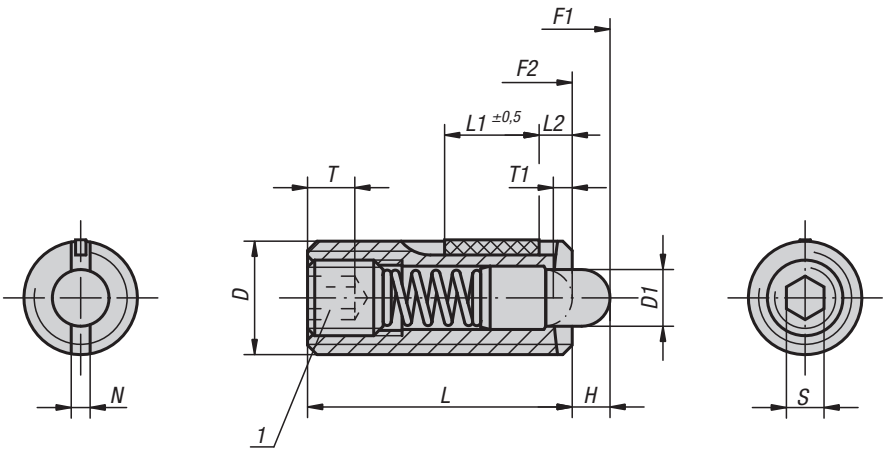
Order No.	D	D1	L	L1	H	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm	Order No. assembly key
K0327.105	M5	2,4	18	7	2,3	2	0,8	0,8	1,5	3	10	0,12	0,08	K0317.905
K0327.106	M6	2,7	20	7	2,5	2,5	1	1	2	3	9	0,45	0,22	K0317.906
K0327.108	M8	3,5	22	8	3	3	1,4	1,2	2,5	4	16	1,05	0,37	K0317.908
K0327.110	M10	4	22	9	3	3,5	1,4	1,6	3	4	16	1,3	0,6	K0317.910
K0327.112	M12	6	28	10	4	5	2	2	4	5	27	2	1,3	K0317.912
K0327.116	M16	7,5	32	14	5	6	2,5	2,5	5	20	45	3,9	3	K0317.916

KIPP Spring plungers with hexagon socket and thrust pin, reinforced spring force, LONG-LOK secured

Order No.	D	D1	L	L1	H	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm	Order No. assembly key
K0327.205	M5	2,4	18	7	2,3	2	0,8	0,8	1,5	11	29	0,12	0,08	K0317.905
K0327.206	M6	2,7	20	7	2,5	2,5	1	1	2	14	37	0,45	0,22	K0317.906
K0327.208	M8	3,5	22	8	3	3	1,4	1,2	2,5	22	65	1,05	0,37	K0317.908
K0327.210	M10	4	22	9	3	3,5	1,4	1,6	3	19	70	1,3	0,6	K0317.910
K0327.212	M12	6	28	10	4	5	2	2	4	25	85	2	1,3	K0317.912
K0327.216	M16	7,5	32	14	5	6	2,5	2,5	5	60	150	3,9	3	K0317.916

Spring plungers

with hexagon socket and POM thrust pin, LONG-LOK secured, steel





Material:
Sleeve steel grade 5.8.
Thrust pin POM.
Spring steel grade D.

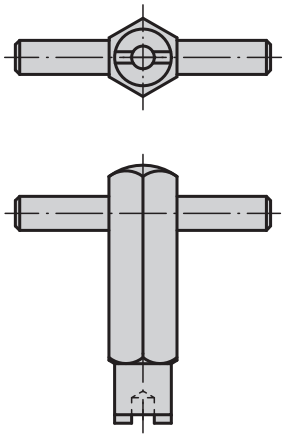
LONG-LOK thread lock nylon.

Version:
Black oxidised.

Sample order:
K0328.12

Drawing reference:
L2 = ca. two full threads

1) glued-in grub screw



KIPP Spring plungers with hexagon socket and thrust pin, standard spring force, LONG-LOK secured

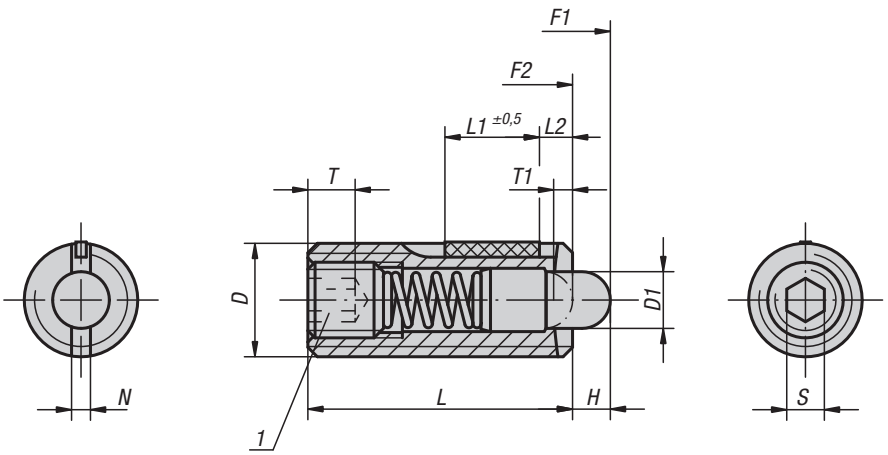
Order No.	D	D1	L	L1	H	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm	Order No. assembly key
K0328.05	M5	2,4	18	7	2,3	2	0,8	0,8	1,5	6	20	0,12	0,08	K0317.905
K0328.06	M6	2,7	20	7	2,5	2,5	1	1	2	7	20	0,45	0,22	K0317.906
K0328.08	M8	3,5	22	8	3	3	1,4	1,2	2,5	9	35	1,05	0,37	K0317.908
K0328.10	M10	4	22	9	3	3,5	1,4	1,6	3	9	35	1,3	0,6	K0317.910
K0328.12	M12	6	28	10	4	5	2	2	4	12	55	2	1,3	K0317.912
K0328.16	M16	7,5	32	14	5	6	2,5	2,5	5	45	100	3,9	3	K0317.916

KIPP Spring plungers with hexagon socket and thrust pin, light spring force, LONG-LOK secured

Order No.	D	D1	L	L1	H	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm	Order No. assembly key
K0328.105	M5	2,4	18	7	2,3	2	0,8	0,8	1,5	3	10	0,12	0,08	K0317.905
K0328.106	M6	2,7	20	7	2,5	2,5	1	1	2	3	9	0,45	0,22	K0317.906
K0328.108	M8	3,5	22	8	3	3	1,4	1,2	2,5	4	16	1,05	0,37	K0317.908
K0328.110	M10	4	22	9	3	3,5	1,4	1,6	3	4	16	1,3	0,6	K0317.910
K0328.112	M12	6	28	10	4	5	2	2	4	5	27	2	1,3	K0317.912
K0328.116	M16	7,5	32	14	5	6	2,5	2,5	5	20	45	3,9	3	K0317.916

Spring plungers

with hexagon socket and thrust pin, LONG-LOK secured, stainless steel





Material:
Sleeve 1.4305.
Thrust pin 1.4034.
Spring 1.4310.

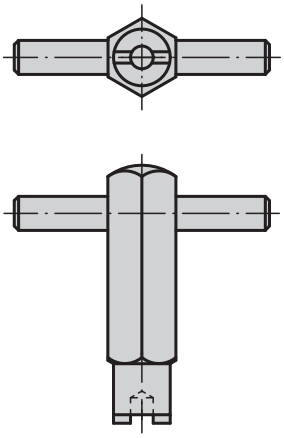
LONG-LOK thread lock in nylon.

Version:
Bright.
Thrust pin hardened.

Sample order:
K0329.12

Drawing reference:
L2 = ca. two full threads

1) glued-in grub screw



KIPP Spring plungers with hexagon socket and thrust pin, standard spring force, LONG-LOK secured

Order No.	D	D1	L	L1	H	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm	Order No. assembly key
K0329.05	M5	2,4	18	7	2,3	2	0,8	0,8	1,5	5	17	0,12	0,08	K0317.905
K0329.06	M6	2,7	20	7	2,5	2,5	1	1	2	6	17	0,45	0,22	K0317.906
K0329.08	M8	3,5	22	8	3	3	1,4	1,2	2,5	7	29	1,05	0,37	K0317.908
K0329.10	M10	4	22	9	3	3,5	1,4	1,6	3	8	31	1,3	0,6	K0317.910
K0329.12	M12	6	28	10	4	5	2	2	4	10	47	2	1,3	K0317.912
K0329.16	M16	7,5	32	14	5	6	2,5	2,5	5	45	100	3,9	3	K0317.916

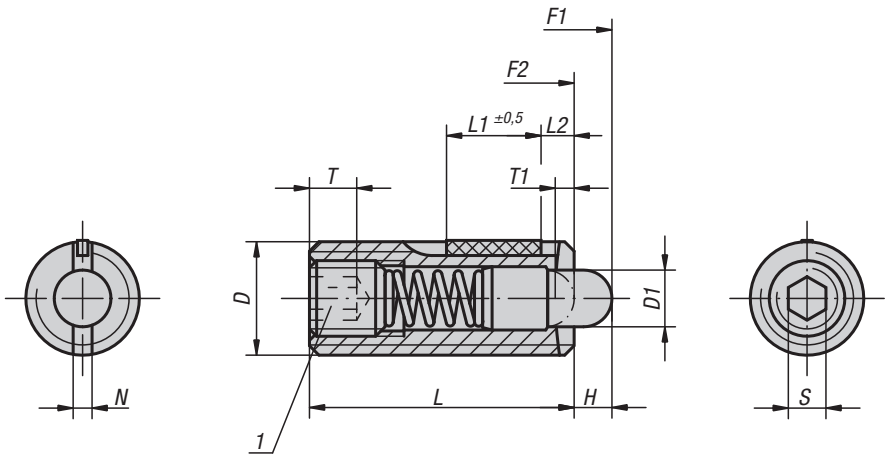
KIPP Spring plungers with hexagon socket and thrust pin, reinforced spring force, LONG-LOK secured

Order No.	D	D1	L	L1	H	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm	Order No. assembly key
K0329.205	M5	2,4	18	7	2,3	2	0,8	0,8	1,5	9	26	0,12	0,08	K0317.905
K0329.206	M6	2,7	20	7	2,5	2,5	1	1	2	11	35	0,45	0,22	K0317.906
K0329.208	M8	3,5	22	8	3	3	1,4	1,2	2,5	15	48	1,05	0,37	K0317.908
K0329.210	M10	4	22	9	3	3,5	1,4	1,6	3	15	58	1,3	0,6	K0317.910
K0329.212	M12	6	28	10	4	5	2	2	4	19	74	2	1,3	K0317.912

Spring plungers

with hexagon socket and POM thrust pin, LONG-LOK secured, stainless steel





Material:
Stainless steel sleeve 1.4305.
Thrust pin POM.
Stainless steel spring 1.4310.

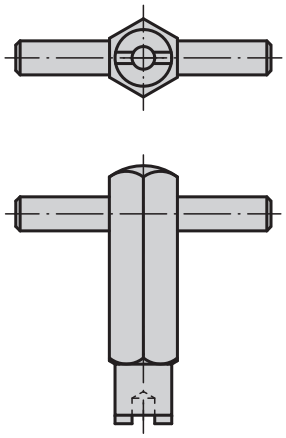
LONG-LOK thread lock nylon.

Version:
Bright.

Sample order:
K0330.12

Drawing reference:
L2 = ca. two full threads

1) glued-in grub screw



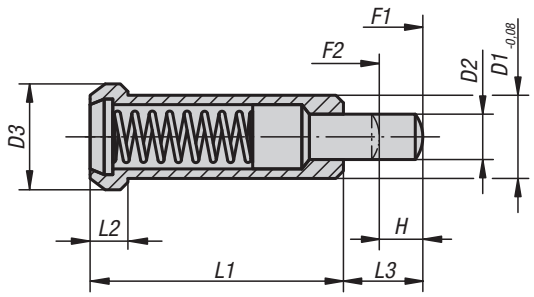
KIPP Spring plungers with hexagon socket and thrust pin, standard spring force, LONG-LOK secured

Order No.	D	D1	L	L1	H	T	T1	N	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque approx. Nm	Loosening torque approx. Nm	Order No. assembly key
K0330.05	M5	2,4	18	7	2,3	2	0,8	0,8	1,5	5	17	0,12	0,08	K0317.905
K0330.06	M6	2,7	20	7	2,5	2,5	1	1	2	6	17	0,45	0,22	K0317.906
K0330.08	M8	3,5	22	8	3	3	1,4	1,2	2,5	7	29	1,05	0,37	K0317.908
K0330.10	M10	4	22	9	3	3,5	1,4	1,6	3	8	31	1,3	0,6	K0317.910
K0330.12	M12	6	28	10	4	5	2	2	4	10	47	2	1,3	K0317.912
K0330.16	M16	7,5	32	14	5	6	2,5	2,5	5	45	100	3,9	3	K0317.916

Spring plungers

with head



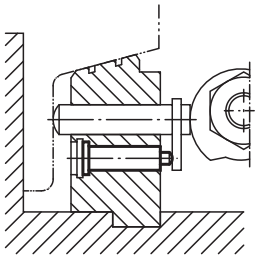


Material:
Steel.

Version:
Black oxidised.
Thrust pin hardened.

Sample order:
K0331.10

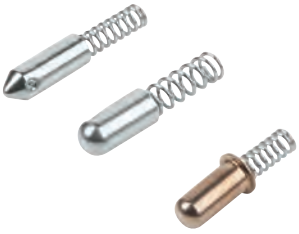
Note:
These spring plungers are chiefly used as ejectors and spring stops in machine construction.



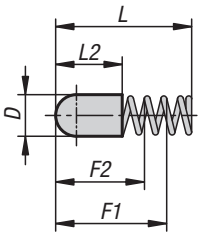
KIPP Spring plungers with head

Order No.	D1	D2	D3	L1	L2	L3	H	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0331.06	6	2,95	8	20	3,2	6	3,5	10	22
K0331.08	8	3,95	10	24	3,2	8	4,5	30	90
K0331.10	10	5,95	13	30	4	10	5,5	42	110
K0331.12	12	7,95	16	36	5	12	6,5	50	130

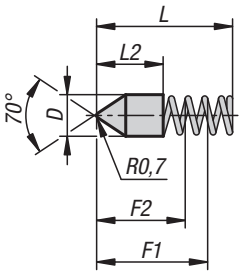
Spring sleeves



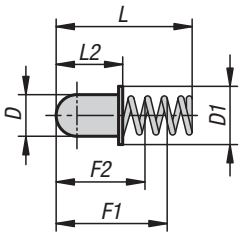
Ⓐ



Ⓑ



Ⓒ



Material:
Sleeve, steel or 1.4303 stainless steel.
Spring, 1.4310 stainless steel.

Version:
Sleeve, steel nickel-plated, stainless steel bright.
Spring, bright.

Sample order:
K1277.112216

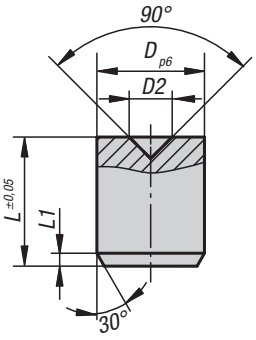
Note:
Spring sleeves are mainly used as indexing and positioning elements.

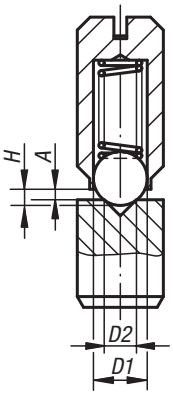
KIPP Spring sleeves

Order No.	Main material	Form	D	D1	L	L2	L by F1	L by F2	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Spring stiffness N/mm
K1277.112216	steel	A	2,2	-	16	7,8	12	10,5	2,2	3	0,53
K1277.112608	steel	A	2,6	-	8	3,8	6,5	5,2	1,1	2	0,7
K1277.113012	steel	A	3	-	12	6	9	8,7	6,2	6,8	2
K1277.113016	steel	A	3	-	16	8,5	13	10,7	4,8	8,4	1,6
K1277.113412	steel	A	3,4	-	12	6	9	7,8	5	7	1,69
K1277.113415	steel	A	3,4	-	15	7,3	12	8,2	5,9	13,3	1,95
K1277.114014	steel	A	4	-	14	8	12	9	5	12,3	2,45
K1277.115016	steel	A	5	-	16	8	13	10,4	8	15	2,7
K1277.123016	stainless steel	A	3	-	16	8	13	10,6	4,8	8,6	1,6
K1277.213011	steel	B	3	-	11	5	9	6,7	1,6	3,4	0,78
K1277.213016	steel	B	3	-	16	8,5	13	10,7	4,8	8,4	1,6
K1277.323013	stainless steel	C	3	4,1	13	7	10	8,9	5,3	7,2	1,75

Locators







$$A = H - \left(\frac{D1 + D2}{2} - \frac{\sqrt{2}}{2} \times D1 \right)$$

Material:
Steel.

Version:
Bright, hardened.

Sample order:
K0332.05020

Note:
If abrasion-resistant and exact locking is necessary, locators can be used together with spring plungers, especially with strong spring force.

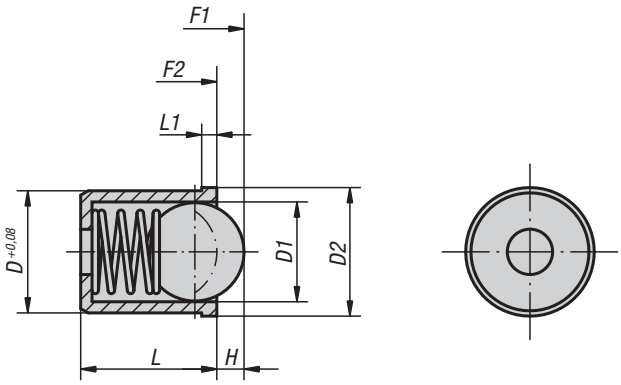
KIPP Locators

Order No.	Suitable for spring plungers with ØD	D	D1	D2	H	L	L1
K0332.04015	- / M4	4	See relevant products for dimensions	1,5	See relevant products for dimensions	5	0,5
K0332.05020	Ø4 / M5	5	See relevant products for dimensions	2	See relevant products for dimensions	6	0,5
K0332.06020	Ø5 / M6	6	See relevant products for dimensions	2	See relevant products for dimensions	8	0,7
K0332.08030	Ø6 / M8	8	See relevant products for dimensions	3	See relevant products for dimensions	10	1
K0332.10040	Ø8 / M10	10	See relevant products for dimensions	4	See relevant products for dimensions	12	1,2
K0332.12060	Ø10 / M12	12	See relevant products for dimensions	6	See relevant products for dimensions	14	1,5
K0332.16080	Ø12 / M16	16	See relevant products for dimensions	8	See relevant products for dimensions	18	2

Spring plungers

smooth version, stainless steel

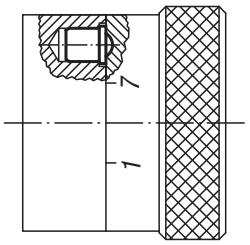




Material:
Sleeve and spring stainless steel.
Ball stainless steel or POM.

Version:
Sleeve bright.
Ball hardened, bright.

Sample order:
K0333.05

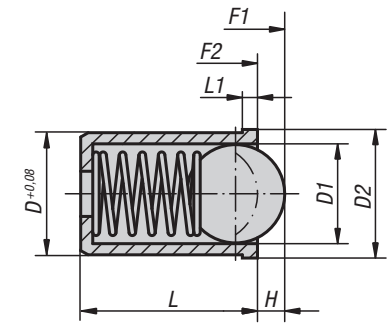


KIPP Spring plungers smooth version, stainless steel

Order No.	Component material	D	D1	D2	L	L1	H	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0333.02	Stainless steel	2	1,5	2,5	3	0,6	0,4	1,2	2,5
K0333.03	Stainless steel	3	2,5	3,5	4	0,8	0,65	1,7	3,4
K0333.04	Stainless steel	4	3	4,6	5	1	0,8	3	7
K0333.05	Stainless steel	5	4	5,6	6	1	1	4	7
K0333.06	Stainless steel	6	5	6,5	7	1	1,5	6	12
K0333.08	Stainless steel	8	6,5	8,5	9	1	1,8	6	12
K0333.10	Stainless steel	10	8	12	13,5	2,5	2,7	10	20
K0333.12	Stainless steel	12	10	14	16	2,5	3,5	15	25
K0333.304	POM	4	3	4,6	5	1	0,6	3	7
K0333.305	POM	5	4	5,6	6	1	0,8	4	7
K0333.306	POM	6	5	6,5	7	1	1,3	6	12
K0333.308	POM	8	6,5	8,5	9	1	1,5	6	12
K0333.310	POM	10	8	12	13,5	2,5	2,6	10	20
K0333.312	POM	12	10	14	16	2,5	3,3	15	25

Spring plungers

smooth version, extended, stainless steel





Material:
Sleeve and spring stainless steel.
Ball stainless steel or POM.

Version:
Sleeve bright.
Ball hardened, bright.

Sample order:
K0333.104

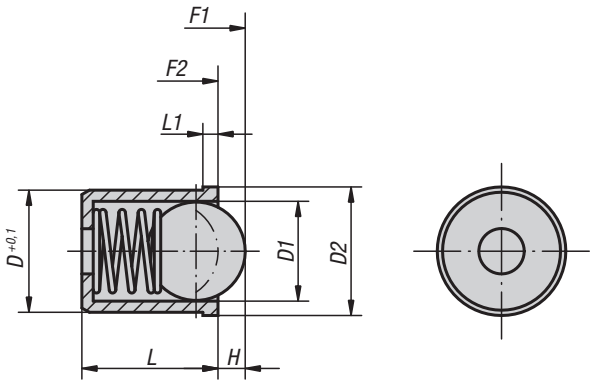
KIPP Spring plungers smooth version, extended, stainless steel

Order No.	Component material	D	D1	D2	L	L1	H	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0333.104	Stainless steel	4	3	4,6	9	1	0,8	12	22
K0333.105	Stainless steel	5	4	5,6	12	1	1	19	30
K0333.106	Stainless steel	6	5	6,5	14	1	1,5	22	40
K0333.108	Stainless steel	8	6	8,5	16	1	1,8	42	73
K0333.110	Stainless steel	10	8	12	22	2,5	2,7	54	100
K0333.112	Stainless steel	12	10	14	24	2,5	3,2	54	122
K0333.404	POM	4	3	4,6	9	1	0,8	12	22
K0333.405	POM	5	4	5,6	12	1	1	19	30
K0333.406	POM	6	5	6,5	14	1	1,5	22	40
K0333.408	POM	8	6	8,5	16	1	1,8	42	73
K0333.410	POM	10	8	12	22	2,5	2,7	54	100
K0333.412	POM	12	10	14	24	2,5	3,2	54	122

Spring plungers

smooth version, plastic





Material:
Sleeve thermoplastic.
Spring stainless steel.
Ball stainless steel or POM.

Version:
Sleeve black.
Ball hardened, bright.

Sample order:
K0334.05

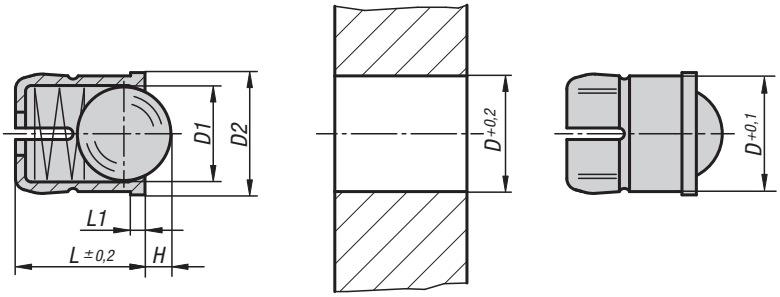
KIPP Spring plungers smooth version, plastic

Order No.	Component material	D	D1	D2	L	L1	H	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0334.04	Stainless steel	4	3	4,6	5	1	0,7	3	7
K0334.05	Stainless steel	5	4	5,6	6	1	1	4	7
K0334.06	Stainless steel	6	5	6,5	7	1	1,5	6	12
K0334.08	Stainless steel	8	6,5	8,5	9	1	1,8	6	12
K0334.10	Stainless steel	10	8	12	13,5	2,5	2,7	10	20
K0334.12	Stainless steel	12	10	14	16	2,5	3,5	15	25
K0334.204	POM	4	3	4,6	5	1	0,7	3	7
K0334.205	POM	5	4	5,6	6	1	1	4	7
K0334.206	POM	6	5	6,5	7	1	1,5	6	12
K0334.208	POM	8	6,5	8,5	9	1	1,8	6	12
K0334.210	POM	10	8	12	13,5	2,5	2,7	10	20
K0334.212	POM	12	10	14	16	2,5	3,5	15	25

Spring plungers

smooth version, self-clamping, plastic





Material:
Sleeve thermoplastic.
Spring stainless steel.
Ball stainless steel or POM.

Version:
Sleeve black.
Ball hardened, bright.

Sample order:
K1171.04

Note:
The self-locking function of the spring plunger enables simple assembly and secure overhead installation.

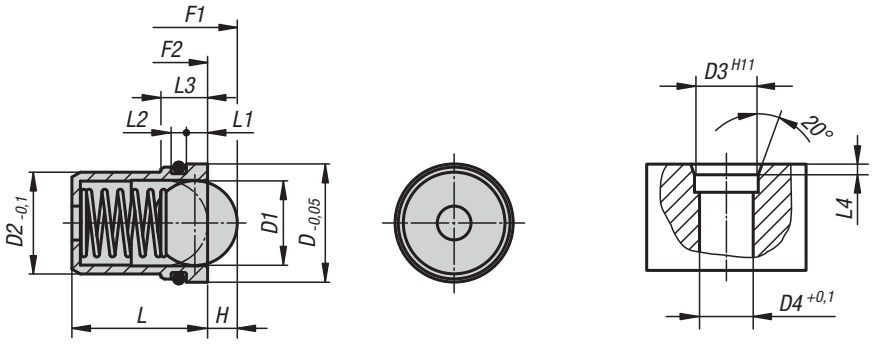
KIPP Spring plungers, smooth version, self-locking, plastic

Order No.	Component material	D	D1	D2	L	L1	H	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1171.04	stainless steel	4	3	4,6	5	1	0,8	3	6,5
K1171.05	stainless steel	5	4	5,6	6	1	1	6	9,4
K1171.06	stainless steel	6	5	6,5	7	1	1,6	6,2	12,6
K1171.08	stainless steel	8	6,5	8,5	9	1	1,9	10	20,4
K1171.10	stainless steel	10	8	11	13,5	1,5	2,4	11,9	22,3
K1171.204	POM	4	3	4,6	5	1	0,8	3	6,5
K1171.205	POM	5	4	5,6	6	1	1	6	9,4
K1171.206	POM	6	5	6,5	7	1	1,6	6,2	12,6
K1171.208	POM	8	6,5	8,5	9	1	1,9	10	20,4
K1171.210	POM	10	8	11	13,5	1,5	2,4	11,9	22,3

Spring plungers

with detent ring





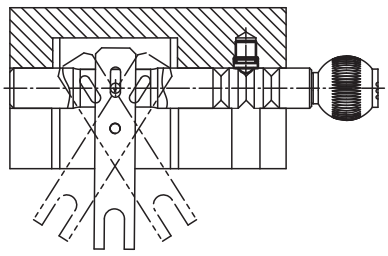
Material:
Sleeve, spring and ball in stainless steel.
O-ring NBR.

Version:
Sleeve bright.
Ball hardened, bright.
O-ring black.

Sample order:
K0582.05

Note:
These spring plungers with O-ring are suitable for overhead installation or for installing in difficult to access positions.

They can be pressed into the location hole by hand or using simple assembly tools. The O-ring holds the plunger in place and prevents it falling out. Other components can be easily installed without the need for further assembly aids.



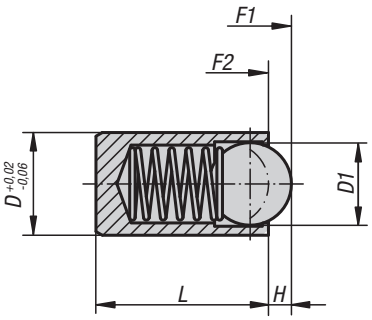
KIPP Spring plungers with detent ring

Order No.	D	D1	D2	D3	D4	H	L	L1	L2	L3	L4	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0582.05	4,95	3	4	5	4,1	0,8	5	1	0,7	2,3	0,7	3	7
K0582.06	5,95	4	5	6	5,1	1	6	1	0,7	2,3	0,7	4	7
K0582.08	7,95	5	6	8	6,1	1,5	7	1,5	1,2	3,7	1	6	12
K0582.10	9,95	6,5	8	10	8,1	1,8	9	2	1,2	4,2	1,5	6	12
K0582.12	11,95	8	10	12	10,1	2,7	13,5	2,5	1,8	5,3	2	10	20
K0582.14	13,95	10	12	14	12,1	3,5	16	2,5	1,8	5,5	2	15	25

Spring plungers

smooth version without collar, stainless steel





Material:
Sleeve and spring stainless steel.
Ball stainless steel or POM.

Version:
Ball hardened, bright.

Sample order:
K0335.208

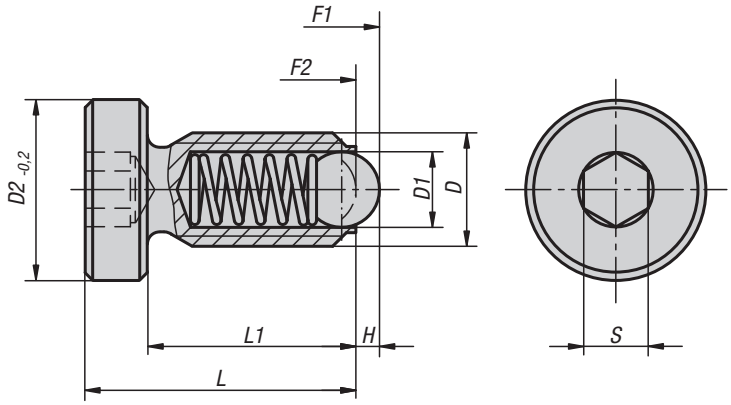
KIPP Spring plungers smooth version, without collar, stainless steel

Order No.	Component material	D	D1	L	H	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0335.203	stainless steel	3	2	7	0,65	5	7
K0335.204	stainless steel	4	3	9	0,8	12	22
K0335.205	stainless steel	5	4	12	1	19	30
K0335.206	stainless steel	6	5	14	1,5	22	40
K0335.208	stainless steel	8	6	16	1,8	42	73
K0335.210	stainless steel	10	8	22	2,7	54	100
K0335.212	stainless steel	12	10	24	3,2	54	122
K0335.304	POM	4	3	9	0,6	12	22
K0335.305	POM	5	4	12	0,9	19	30
K0335.306	POM	6	5	14	1,3	22	40
K0335.308	POM	8	6	16	1,7	42	73
K0335.310	POM	10	8	22	2,6	54	100
K0335.312	POM	12	10	24	3,1	54	122

K0336

Spring plungers

with head





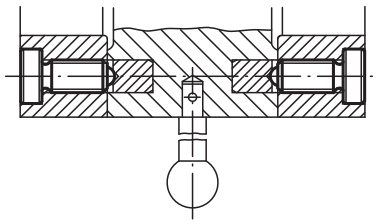
Material:
Free cutting steel or stainless steel.

Version:
Steel black oxidised.
Stainless steel bright.
Ball steel or stainless steel, hardened, bright.

Sample order:
K0336.10

KIPP Spring plungers with head

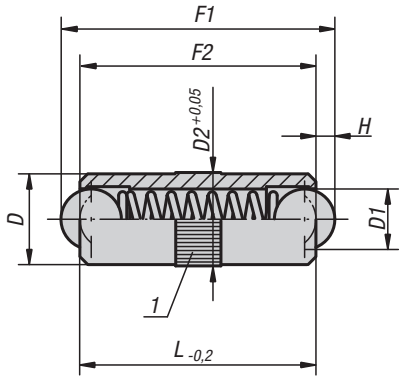
Order No. Free-cutting steel	Order No. Stainless steel	D	D1	D2	L	L1	H	S	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0336.06	**K0336.061**	M6	3,5	10	16	12	1	3	9	13
K0336.08	**K0336.081**	M8	5	13	21	16	1,5	4	15	30
K0336.10	**K0336.101**	M10	6	16	26	20	2	5	20	35
K0336.12	**K0336.121**	M12	8	18	32	25	2,5	6	30	55



K0337

Spring plungers

smooth version, double-sided





Material:
Sleeve brass. Ball and spring stainless steel.

Version:
Balls hardened, bright.

Sample order:
K0337.05

Drawing reference:
1) knurl

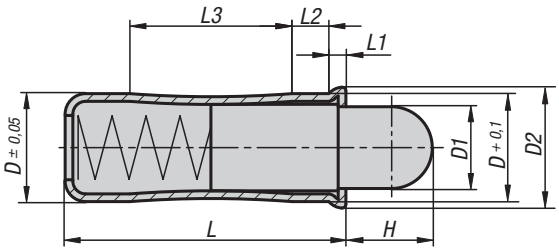
KIPP Spring plungers smooth version, double-sided

Order No.	D	D1	D2	L	H	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0337.025	2,5	2	2,55	6	0,65	1,5	2,8
K0337.03	3	2,5	3,05	8	0,8	2,5	6
K0337.04	4	3	4,05	10	0,9	3	7
K0337.05	5	4	5,05	12	1,2	4	8
K0337.06	6	5	6,05	16	1,6	6	10
K0337.08	8	6	8,05	20	2	8	12
K0337.10	10	8	10,05	24	2,9	10	16

Spring plungers

smooth version





Material:
Sleeve and spring stainless steel.
Pin stainless steel or POM.

Version:
Pins, white POM, temperature-resistant to +50°C.

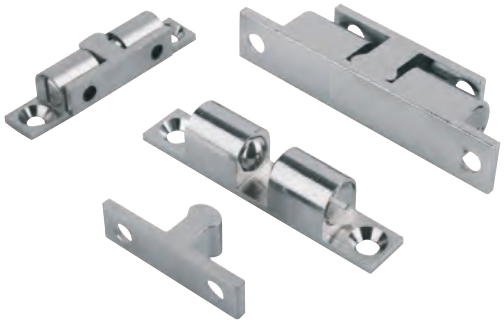
Sample order:
K1172.08

Note:
Smooth version to press-in.
A H7 tolerance is recommended for the receiving hole with diameter D.

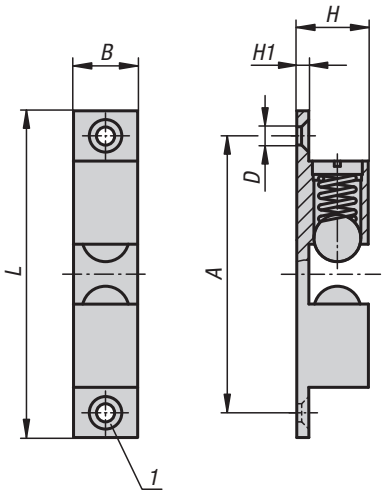
KIPP Spring plungers, smooth version

Order No.	Component material	D	D1	D2	L	L1	L2	L3	H	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1172.04	stainless steel	4	2,8	4,6	10,7	0,9	1,8	5,6	2,7	3	8,2
K1172.05	stainless steel	5	3,8	5,6	12	0,9	2,1	6	4	3,3	9
K1172.06	stainless steel	6	4,8	6,5	15	1	2,3	8,2	5,5	6,1	12
K1172.08	stainless steel	8	6,2	8,5	18	1,1	2,9	9,5	6,5	10,7	17
K1172.10	stainless steel	10	8	11	26	1,5	4,2	14,3	8	16,2	29
K1172.204	POM	4	2,8	4,6	10,7	0,9	1,8	5,6	2,7	3	8,2
K1172.205	POM	5	3,8	5,6	12	0,9	2,1	6	4	3,3	9
K1172.206	POM	6	4,8	6,5	15	1	2,3	8,2	5,5	6,1	12
K1172.208	POM	8	6,2	8,5	18	1,1	2,9	9,5	6,5	10,7	17
K1172.210	POM	10	8	11	26	1,5	4,2	14,3	8	16,2	29

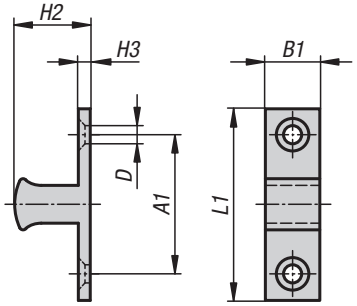
Double ball catch



housing



latch bracket



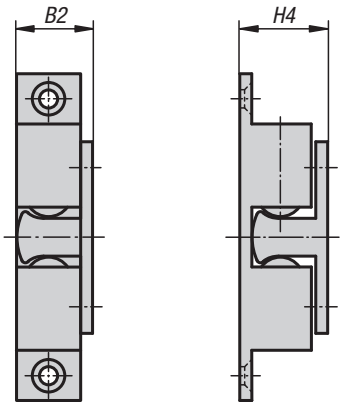
Material, version:
Housing and latch chrome plated brass.
Balls and springs stainless steel.

Sample order:
K0583.50

Note:
Quick catch for various applications such as holding doors, hatches, screens etc. closed. The double ball catch consists of a housing and a latch bracket that engages between the two balls. The latch bracket can engage from the front or the side. The engagement pressure is adjustable.

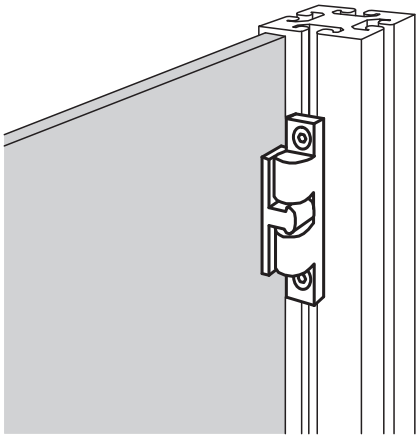
Drawing reference:
1) counterbore DIN 74-A

catch



from side

from front

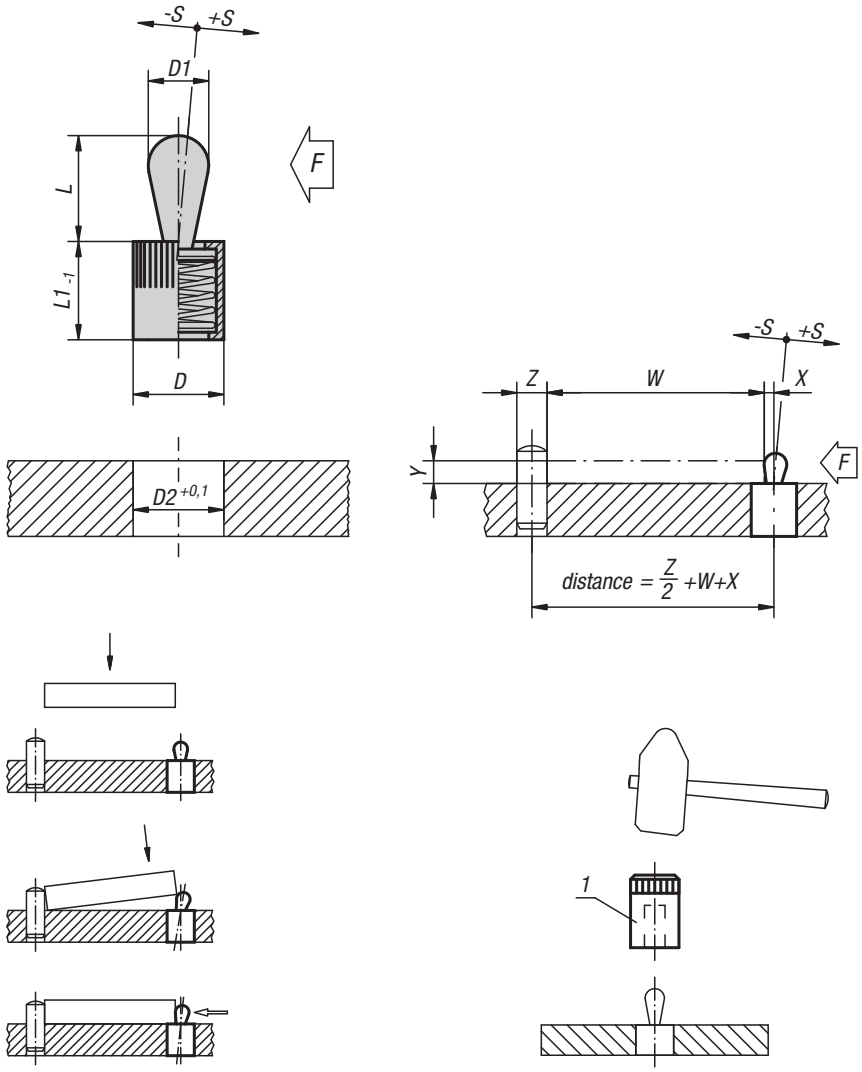


KIPP Double ball catch

Order No.	A	A1	B	B1	B2	D	H	H1	H2	H3	H4	L	L1	Clamping force ca. N
K0583.50	39,8	19,8	8,8	7,6	10,8	3,8	10,6	2	11,2	2	13,2	49	28,8	35±5
K0583.60	50	23,5	11	9	13,5	4,8	13,2	2,4	13,5	2,2	15,5	60	35	30±7
K0583.70	58	30	13	12	15,2	4,8	15	2,4	15,7	2,2	18,1	68,4	40,2	25±5

Notes

Lateral spring plungers





Material:
Sleeve aluminium.
Spring steel.
Thrust pin steel or POM.

Version:
Thrust pin (steel) hardened and galvanized.
Sleeve blue galvanized.

Sample order:
K0368.72064

Note:
Lateral spring plungers are for positioning, clamping, holding and securing workpieces and parts for engraving, labelling, drilling, reaming, tapping, honing, grinding, welding, soldering, assembling, mounting etc.
Suitable eccentric adjustment bush see K0369.
W and Z are customer specified.

Drawing reference:
1) assembly tool

KIPP Lateral spring plungers without seal, thrust pin and spring steel

Order No.	D	D1	L	L1	D2	±S	F ca.N	X if Y = 1	X if Y = 2	X if Y = 3	X if Y = 4.5	X if Y = 6	X if Y = 8	Order No. assembly tool
K0368.21034	6	3	4	7	6	0,5	10	0,8	1	1	1	1	1	K0369.03
K0368.21036	6	3	4	7	6	0,5	20	0,8	1	1	1	1	1	K0369.03
K0368.21038	6	3	4	7	6	0,5	40	0,8	1	1	1	1	1	K0369.03
K0368.21054	10	5	6,7	11	10	0,8	20	-	1,5	1,7	1,7	1,7	1,7	K0369.05
K0368.21056	10	5	6,7	11	10	0,8	50	-	1,5	1,7	1,7	1,7	1,7	K0369.05
K0368.21058	10	5	6,7	11	10	0,8	100	-	1,5	1,7	1,7	1,7	1,7	K0369.05
K0368.21064	10	6	10,7	11	10	1	40	-	-	-	1,7	1,9	1,9	K0369.05
K0368.21066	10	6	10,7	11	10	1	75	-	-	-	1,7	1,9	1,9	K0369.05
K0368.21068	10	6	10,7	11	10	1	100	-	-	-	1,7	1,9	1,9	K0369.05
K0368.21084	12	8	13,9	13	12	1,3	50	-	-	-	-	2,5	2,7	K0369.08
K0368.21086	12	8	13,9	13	12	1,3	100	-	-	-	-	2,5	2,7	K0369.08
K0368.21088	12	8	13,9	13	12	1,3	150	-	-	-	-	2,5	2,7	K0369.08
K0368.21104	16	10	16,7	17	16	1,6	100	-	-	-	-	-	3,1	K0369.10
K0368.21106	16	10	16,7	17	16	1,6	150	-	-	-	-	-	3,1	K0369.10
K0368.21108	16	10	16,7	17	16	1,6	200	-	-	-	-	-	3,1	K0369.10

Lateral spring plungers

KIPP Lateral spring plungers with seal, thrust pin and spring steel

Order No.	D	D1	L	L1	D2	±S	F ca.N	X if Y = 1	X if Y = 2	X if Y = 3	X if Y = 4.5	X if Y = 6	X if Y = 8	Order No. assembly tool
K0368.22034	6	3	4	7	6	0,5	10	0,8	1	1	1	1	1	K0369.03
K0368.22036	6	3	4	7	6	0,5	20	0,8	1	1	1	1	1	K0369.03
K0368.22038	6	3	4	7	6	0,5	40	0,8	1	1	1	1	1	K0369.03
K0368.22054	10	5	6	12	10	0,8	20	-	1,5	1,7	1,7	1,7	1,7	K0369.05
K0368.22056	10	5	6	12	10	0,8	50	-	1,5	1,7	1,7	1,7	1,7	K0369.05
K0368.22058	10	5	6	12	10	0,8	100	-	1,5	1,7	1,7	1,7	1,7	K0369.05
K0368.22064	10	6	10	12	10	1	40	-	-	-	1,7	1,9	1,9	K0369.05
K0368.22066	10	6	10	12	10	1	75	-	-	-	1,7	1,9	1,9	K0369.05
K0368.22068	10	6	10	12	10	1	100	-	-	-	1,7	1,9	1,9	K0369.05
K0368.22084	12	8	13	14	12	1,3	50	-	-	-	-	2,5	2,7	K0369.08
K0368.22086	12	8	13	14	12	1,3	100	-	-	-	-	2,5	2,7	K0369.08
K0368.22088	12	8	13	14	12	1,3	150	-	-	-	-	2,5	2,7	K0369.08
K0368.22104	16	10	16	18	16	1,6	100	-	-	-	-	-	3,1	K0369.10
K0368.22106	16	10	16	18	16	1,6	150	-	-	-	-	-	3,1	K0369.10
K0368.22108	16	10	16	18	16	1,6	200	-	-	-	-	-	3,1	K0369.10

KIPP Lateral spring plungers without seal, thrust pin POM, spring steel

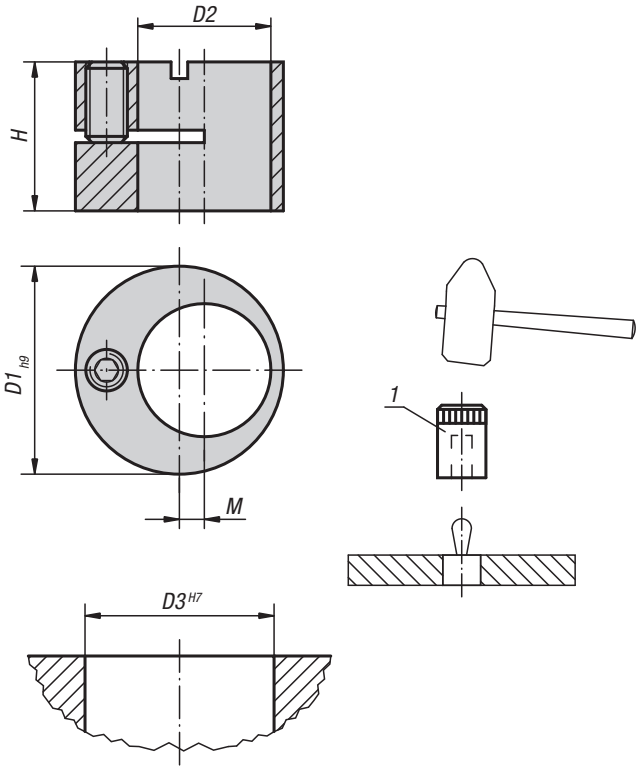
Order No.	D	D1	L	L1	D2	±S	F ca.N	X if Y = 1	X if Y = 2	X if Y = 3	X if Y = 4.5	X if Y = 6	X if Y = 8	Order No. assembly tool
K0368.71034	6	3	4	7	6	0,5	10	0,8	1	1	1	1	1	K0369.03
K0368.71054	10	5	6,7	11	10	0,8	20	-	1,5	1,7	1,7	1,7	1,7	K0369.05
K0368.71064	10	6	10,7	11	10	1	40	-	-	-	1,7	1,9	1,9	K0369.05
K0368.71084	12	8	13,9	13	12	1,3	50	-	-	-	-	2,5	2,7	K0369.08
K0368.71104	16	10	16,7	17	16	1,6	100	-	-	-	-	-	3,1	K0369.10

KIPP Lateral spring plungers with seal, thrust pin POM, spring steel

Order No.	D	D1	L	L1	D2	±S	F ca.N	X if Y = 1	X if Y = 2	X if Y = 3	X if Y = 4.5	X if Y = 6	X if Y = 8	Order No. assembly tool
K0368.72034	6	3	4	7	6	0,5	10	0,8	1	1	1	1	1	K0369.03
K0368.72054	10	5	6	12	10	0,8	20	-	1,5	1,7	1,7	1,7	1,7	K0369.05
K0368.72064	10	6	10	12	10	1	40	-	-	-	1,7	1,9	1,9	K0369.05
K0368.72084	12	8	13	14	12	1,3	50	-	-	-	-	2,5	2,7	K0369.08
K0368.72104	16	10	16	18	16	1,6	100	-	-	-	-	-	3,1	K0369.10

Eccentric bushes and assembly tool

for lateral spring plungers.





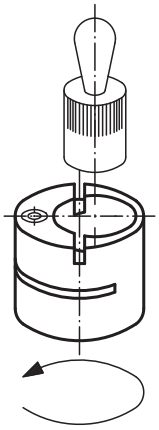
Material:
Steel.

Version:
Black oxidised.

Sample order:
K0369.180

Note:
Offset bushes enable lateral spring plungers to be positioned exactly to the workpiece.

Drawing reference:
1) assembly tool



KIPP Assembly tools

Order No.	Suitable for lateral spring plungers with D =
K0369.03	6
K0369.05	10
K0369.08	12
K0369.10	16

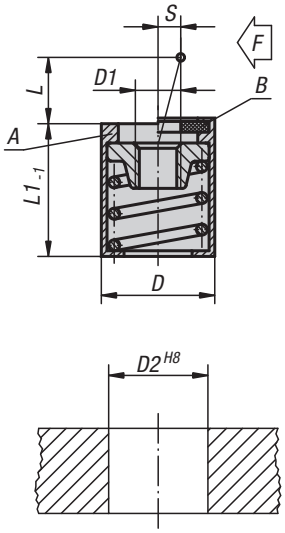
KIPP Offset bushes for lateral spring plungers

Order No.	D1	D2	D3	H	M	Suitable for lateral spring plungers with D =
K0369.120	12	6	12	9,9	2	6
K0369.160	16	10	16	11,9	2	10
K0369.180	18	12	18	13,9	2	12
K0369.250	25	16	25	17,9	3	16

Lateral spring plungers

without thrust pin





Material:
Sleeve aluminium.
Receiving washer steel.
Spring steel.

Version:
Sleeve blue galvanized.
Receiving washer, hardened and burnished.

Sample order:
K0370.31058

Note:
The thrust pin can be made to suit the required circumstances and screwed into the tapped hole in the locating washer.
The required lateral thrust (F) can be achieved through the stroke (S) and length (L).
Form B has a seal to keep swarf and dirt out.

KIPP Lateral spring plungers without thrust pin, Form A, without seal

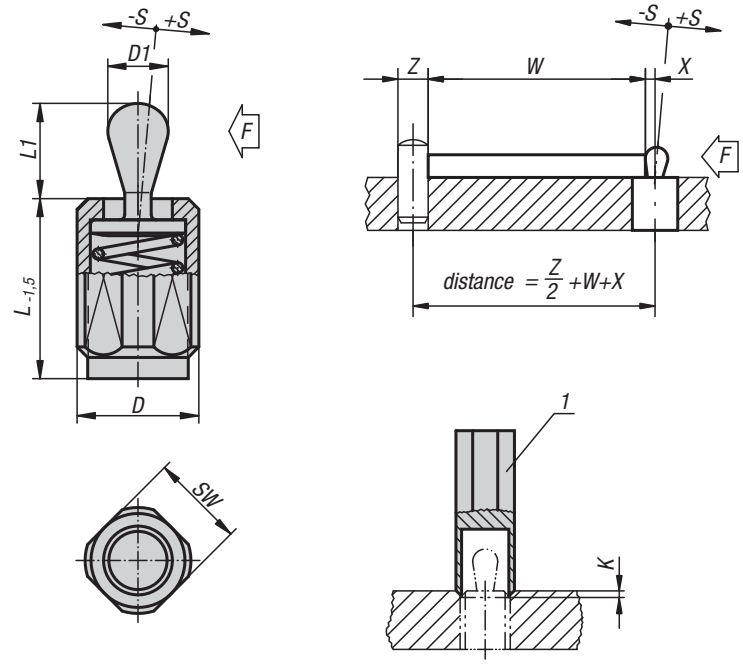
Order No.	Form	D	D1	D2	L	L1	S	F ca.N
K0370.31054	A	10	M4	10	4	12	1,6	20
K0370.31056	A	10	M4	10	4	12	1,6	50
K0370.31058	A	10	M4	10	4	12	1,6	100
K0370.31064	A	10	M4	10	7,5	12	2	40
K0370.31066	A	10	M4	10	7,5	12	2	75
K0370.31068	A	10	M4	10	7,5	12	2	100
K0370.31104	A	16	M6	16	11,5	18	3,2	100
K0370.31106	A	16	M6	16	11,5	18	3,2	150
K0370.31108	A	16	M6	16	11,5	18	3,2	200

KIPP Lateral spring plungers without thrust pins, Form B, with seal

Order No.	Form	D	D1	D2	L	L1	S	F ca.N
K0370.32054	B	10	M4	10	4	12	1,6	20
K0370.32056	B	10	M4	10	4	12	1,6	50
K0370.32058	B	10	M4	10	4	12	1,6	100
K0370.32064	B	10	M4	10	7,5	12	2	40
K0370.32066	B	10	M4	10	7,5	12	2	75
K0370.32068	B	10	M4	10	7,5	12	2	100
K0370.32104	B	16	M6	16	11,5	18	3,2	100
K0370.32106	B	16	M6	16	11,5	18	3,2	150
K0370.32108	B	16	M6	16	11,5	18	3,2	200

Lateral spring plungers

with threaded sleeve





Material:
Steel.

Version:
Thrust pin steel, hardened and galvanized.
Sleeve blue galvanized.

Sample order:
K0371.1020X12

Note:
Lateral spring plungers with threaded sleeve can be individually adjusted to suit the the part being held. The threaded sleeve is also suitable for screwing into thin sheet metal as it can be fastened with one or two nuts. W and Z are customer specified.

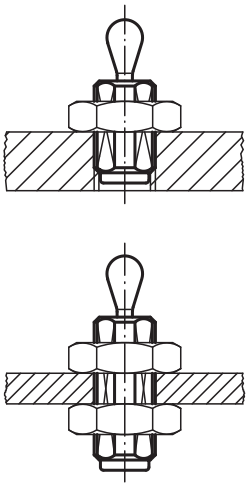
Drawing reference:
1) assembly tool

KIPP Lateral spring plungers without seal

Order No.	L	L1	D	D1	±S	F ca.N	X	SW	K	Order No. assembly tool
K0371.1020X12	11,5	6,7	M12	5	0,8	20	1,6	10	2x60°	K0371.06
K0371.1020X20	19	6,7	M12	5	0,8	20	1,6	10	2x60°	K0371.06
K0371.1020X27	26,5	6,7	M12	5	0,8	20	1,6	10	2x60°	K0371.06
K0371.1050X12	11,5	6,7	M12	5	0,8	50	1,6	10	2x60°	K0371.06
K0371.1050X20	19	6,7	M12	5	0,8	50	1,6	10	2x60°	K0371.06
K0371.1050X27	26,5	6,7	M12	5	0,8	50	1,6	10	2x60°	K0371.06
K0371.1100X12	11,5	6,7	M12	5	0,8	100	1,6	10	2x60°	K0371.06
K0371.1100X20	19	6,7	M12	5	0,8	100	1,6	10	2x60°	K0371.06
K0371.1100X27	26,5	6,7	M12	5	0,8	100	1,6	10	2x60°	K0371.06
K0371.1040X12	11,5	10,7	M12	6	1	40	1,8	10	2x60°	K0371.06
K0371.1040X20	19	10,7	M12	6	1	40	1,8	10	2x60°	K0371.06
K0371.1040X27	26,5	10,7	M12	6	1	40	1,8	10	2x60°	K0371.06
K0371.1075X12	11,5	10,7	M12	6	1	75	1,8	10	2x60°	K0371.06
K0371.1075X20	19	10,7	M12	6	1	75	1,8	10	2x60°	K0371.06
K0371.1075X27	26,5	10,7	M12	6	1	75	1,8	10	2x60°	K0371.06
K0371.1150X12	11,5	10,7	M12	6	1	100	1,8	10	2x60°	K0371.06
K0371.1150X20	19	10,7	M12	6	1	100	1,8	10	2x60°	K0371.06
K0371.1150X27	26,5	10,7	M12	6	1	100	1,8	10	2x60°	K0371.06
K0371.1100X16	18	16,7	M18x1,5	10	1,6	100	3,2	16	2,5x60°	K0371.10
K0371.1100X29	31,5	16,7	M18x1,5	10	1,6	100	3,2	16	2,5x60°	K0371.10
K0371.1100X43	45	16,7	M18x1,5	10	1,6	100	3,2	16	2,5x60°	K0371.10
K0371.1200X16	18	16,7	M18x1,5	10	1,6	150	3,2	16	2,5x60°	K0371.10
K0371.1200X29	31,5	16,7	M18x1,5	10	1,6	150	3,2	16	2,5x60°	K0371.10
K0371.1200X43	45	16,7	M18x1,5	10	1,6	150	3,2	16	2,5x60°	K0371.10
K0371.1300X16	18	16,7	M18x1,5	10	1,6	200	3,2	16	2,5x60°	K0371.10
K0371.1300X29	31,5	16,7	M18x1,5	10	1,6	200	3,2	16	2,5x60°	K0371.10
K0371.1300X43	45	16,7	M18x1,5	10	1,6	200	3,2	16	2,5x60°	K0371.10

Lateral spring plungers

with threaded sleeve

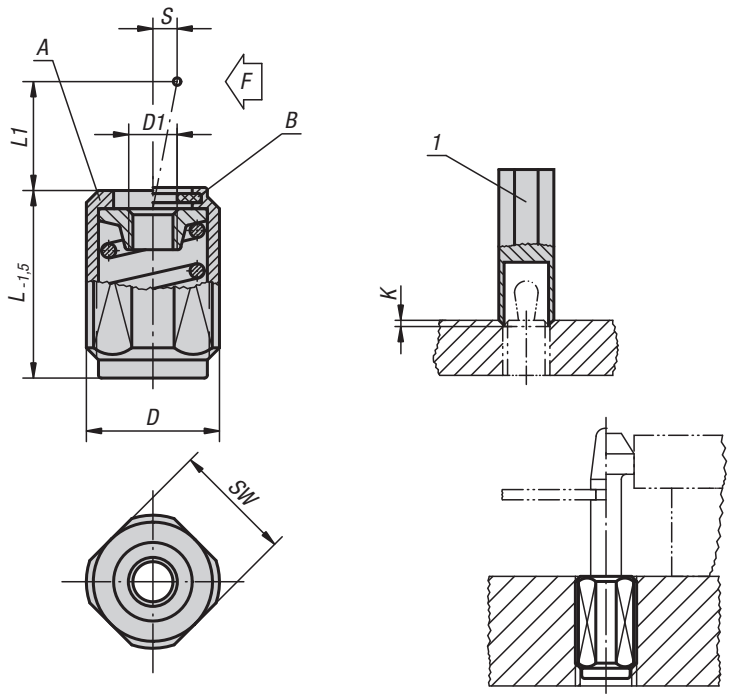


KIPP Lateral spring plungers with seal

Order No.	L	L1	D	D1	±S	F ca.N	X	SW	K	Order No. assembly tool
K0371.3020X12	11,5	6	M12	5	0,8	20	1,6	10	2x60°	K0371.06
K0371.3020X20	19	6	M12	5	0,8	20	1,6	10	2x60°	K0371.06
K0371.3020X27	26,5	6	M12	5	0,8	20	1,6	10	2x60°	K0371.06
K0371.3050X12	11,5	6	M12	5	0,8	50	1,6	10	2x60°	K0371.06
K0371.3050X20	19	6	M12	5	0,8	50	1,6	10	2x60°	K0371.06
K0371.3050X27	26,5	6	M12	5	0,8	50	1,6	10	2x60°	K0371.06
K0371.3100X12	11,5	6	M12	5	0,8	100	1,6	10	2x60°	K0371.06
K0371.3100X20	19	6	M12	5	0,8	100	1,6	10	2x60°	K0371.06
K0371.3100X27	26,5	6	M12	5	0,8	100	1,6	10	2x60°	K0371.06
K0371.3040X12	11,5	10	M12	6	1	40	1,8	10	2x60°	K0371.06
K0371.3040X20	19	10	M12	6	1	40	1,8	10	2x60°	K0371.06
K0371.3040X27	26,5	10	M12	6	1	40	1,8	10	2x60°	K0371.06
K0371.3075X12	11,5	10	M12	6	1	75	1,8	10	2x60°	K0371.06
K0371.3075X20	19	10	M12	6	1	75	1,8	10	2x60°	K0371.06
K0371.3075X27	26,5	10	M12	6	1	75	1,8	10	2x60°	K0371.06
K0371.3150X12	11,5	10	M12	6	1	100	1,8	10	2x60°	K0371.06
K0371.3150X20	19	10	M12	6	1	100	1,8	10	2x60°	K0371.06
K0371.3150X27	26,5	10	M12	6	1	100	1,8	10	2x60°	K0371.06
K0371.3100X16	18	16	M18x1,5	10	1,6	100	3,2	16	2,5x60°	K0371.10
K0371.3100X29	31,5	16	M18x1,5	10	1,6	100	3,2	16	2,5x60°	K0371.10
K0371.3100X43	45	16	M18x1,5	10	1,6	100	3,2	16	2,5x60°	K0371.10
K0371.3200X16	18	16	M18x1,5	10	1,6	150	3,2	16	2,5x60°	K0371.10
K0371.3200X29	31,5	16	M18x1,5	10	1,6	150	3,2	16	2,5x60°	K0371.10
K0371.3200X43	45	16	M18x1,5	10	1,6	150	3,2	16	2,5x60°	K0371.10
K0371.3300X16	18	16	M18x1,5	10	1,6	200	3,2	16	2,5x60°	K0371.10
K0371.3300X29	31,5	16	M18x1,5	10	1,6	200	3,2	16	2,5x60°	K0371.10
K0371.3300X43	45	16	M18x1,5	10	1,6	200	3,2	16	2,5x60°	K0371.10

Lateral spring plungers

with threaded sleeve, without thrust pin





Material:
Steel.

Version:
Sleeve blue galvanized.
Receiving washer, hardened and burnished.

Sample order:
K0372.1100X20

Note:
The thrust pin can be made to suit the required circumstances and screwed into the tapped hole in the locating washer.
The required lateral thrust (F) can be achieved through the stroke (S) and length (L).
Form B has a seal to keep swarf and dirt out.

Drawing reference:
Form A: without seal
Form B: with seal

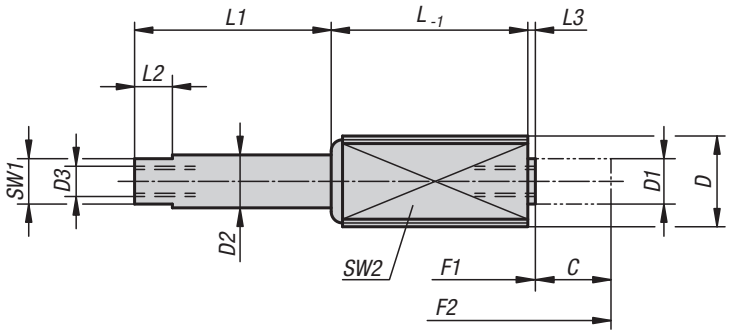
1) assembly tool

KIPP Lateral spring plungers with threaded sleeve, without thrust pin

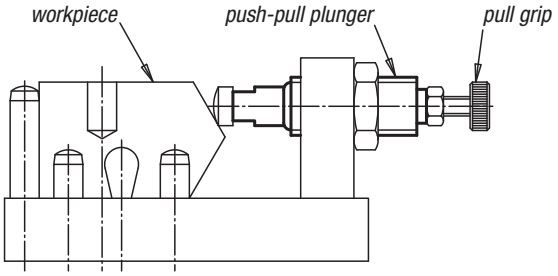
Order No. A	Order No. B	L	L1	D	D1	±S	F ca.N	SW	K	Order No. assembly tool
K0372.1020X12	K0372.2020X12	11,5	4	M12	M4	1,6	20	10	2x60°	K0371.06
K0372.1020X20	K0372.2020X20	19	4	M12	M4	1,6	20	10	2x60°	K0371.06
K0372.1020X27	K0372.2020X27	26,5	4	M12	M4	1,6	20	10	2x60°	K0371.06
K0372.1040X12	K0372.2040X12	11,5	7,5	M12	M4	2	40	10	2x60°	K0371.06
K0372.1040X20	K0372.2040X20	19	7,5	M12	M4	2	40	10	2x60°	K0371.06
K0372.1040X27	K0372.2040X27	26,5	7,5	M12	M4	2	40	10	2x60°	K0371.06
K0372.1050X12	K0372.2050X12	11,5	4	M12	M4	1,6	50	10	2x60°	K0371.06
K0372.1050X20	K0372.2050X20	19	4	M12	M4	1,6	50	10	2x60°	K0371.06
K0372.1050X27	K0372.2050X27	26,5	4	M12	M4	1,6	50	10	2x60°	K0371.06
K0372.1075X12	K0372.2075X12	11,5	7,5	M12	M4	2	75	10	2x60°	K0371.06
K0372.1075X20	K0372.2075X20	19	7,5	M12	M4	2	75	10	2x60°	K0371.06
K0372.1075X27	K0372.2075X27	26,5	7,5	M12	M4	2	75	10	2x60°	K0371.06
K0372.1100X12	K0372.2100X12	11,5	4	M12	M4	1,6	100	10	2x60°	K0371.06
K0372.1100X20	K0372.2100X20	19	4	M12	M4	1,6	100	10	2x60°	K0371.06
K0372.1100X27	K0372.2100X27	26,5	4	M12	M4	1,6	100	10	2x60°	K0371.06
K0372.1150X12	K0372.2150X12	11,5	7,5	M12	M4	2	100	10	2x60°	K0371.06
K0372.1150X20	K0372.2150X20	19	7,5	M12	M4	2	100	10	2x60°	K0371.06
K0372.1150X27	K0372.2150X27	26,5	7,5	M12	M4	2	100	10	2x60°	K0371.06
K0372.1100X16	K0372.2100X16	18	11,5	M18x1,5	M6	3,2	100	16	2,5x60°	K0371.10
K0372.1100X29	K0372.2100X29	31,5	11,5	M18x1,5	M6	3,2	100	16	2,5x60°	K0371.10
K0372.1100X43	K0372.2100X43	45	11,5	M18x1,5	M6	3,2	100	16	2,5x60°	K0371.10
K0372.1200X16	K0372.2200X16	18	11,5	M18x1,5	M6	3,2	150	16	2,5x60°	K0371.10
K0372.1200X29	K0372.2200X29	31,5	11,5	M18x1,5	M6	3,2	150	16	2,5x60°	K0371.10
K0372.1200X43	K0372.2200X43	45	11,5	M18x1,5	M6	3,2	150	16	2,5x60°	K0371.10
K0372.1300X16	K0372.2300X16	18	11,5	M18x1,5	M6	3,2	200	16	2,5x60°	K0371.10
K0372.1300X29	K0372.2300X29	31,5	11,5	M18x1,5	M6	3,2	200	16	2,5x60°	K0371.10
K0372.1300X43	K0372.2300X43	45	11,5	M18x1,5	M6	3,2	200	16	2,5x60°	K0371.10

Spring plungers push-pull

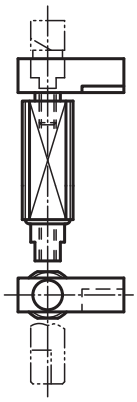




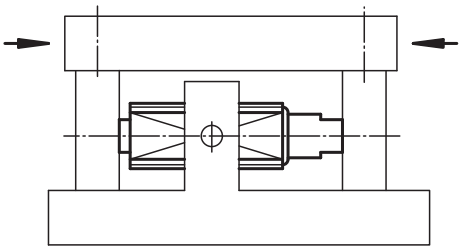
push-pull plunger



pull plunger as lock



push-pull plunger as carrier



Material:
Steel.

Version:
Sleeve blue galvanized.
Spring pins black oxidised.

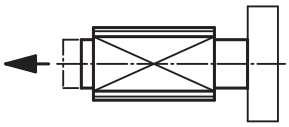
Sample order:
K0373.1202004

Note:
The tapped hole in both ends of the spring pin allow various inserts to be attached e.g. prisms, thrust pins, self-aligning pads, knobs, grips etc.

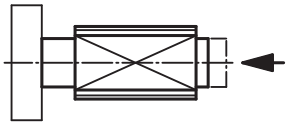
Assembly:
LOCTITE threadlocker K0655.243.... is recommended for gluing the threaded sleeve in position.

Application:

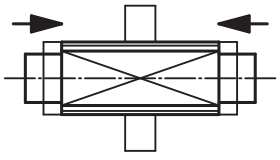
As **push plunger:**
The spring force pushes the object.



As **pull plunger:**
The spring force pulls the object.



As **push-pull plunger**:
In this case the internal pin has a fixed position.
The threaded sleeve acts as carrier.
The spring force pushes or pulls the object in both directions.

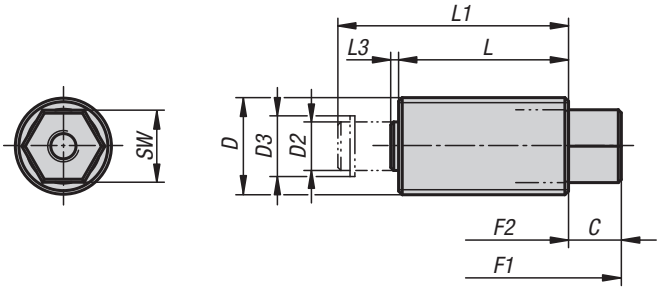


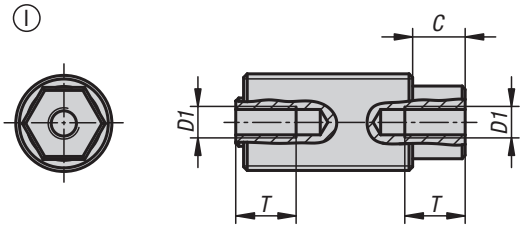
KIPP Push-Pull spring plungers

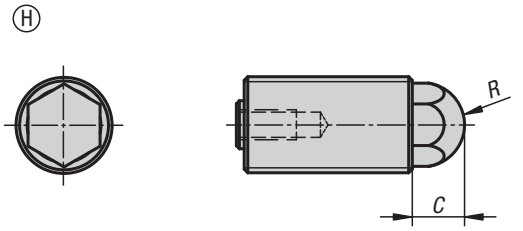
Order No.	D	D1	D2	D3	F1 (N)	F2 (N)	C (travel)	L	L1	L2	L3	SW1	SW2 square
K0373.1202004	M12	6	7	M4 x 8	5	20	3,5	11	4,5	5	1	6	10
K0373.1202006	M12	6	7	M4 x 8	5	20	6	18,5	7	5	1	6	10
K0373.1202010	M12	6	7	M4 x 8	5	20	10	26	11	5	1	6	10
K0373.1206003	M12	6	7	M4 x 8	12	40	3	11	4,5	5	1	6	10
K0373.1206005	M12	6	7	M4 x 8	12	40	5	18,5	7	5	1	6	10
K0373.1206008	M12	6	7	M4 x 8	12	40	8	26	11	5	1	6	10
K0373.1212503	M12	6	7	M4 x 8	20	100	3	11	4,5	5	1	6	10
K0373.1212505	M12	6	7	M4 x 8	20	100	5	18,5	7	5	1	6	10
K0373.1212508	M12	6	7	M4 x 8	20	100	8	26	11	5	1	6	10
K0373.1815004	M18x1,5	10	11	M6 x 12	50	150	4	17	6	6	2,5	9	16
K0373.1815007	M18x1,5	10	11	M6 x 12	50	150	7	29,5	11,5	6	2,5	9	16
K0373.1815013	M18x1,5	10	11	M6 x 12	50	150	12,5	45,5	16	6	2,5	9	16

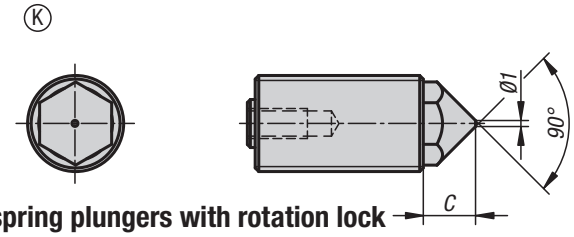
Spring plungers push-pull

with rotation lock









KIPP Push-Pull spring plungers with rotation lock



Material:
Steel.

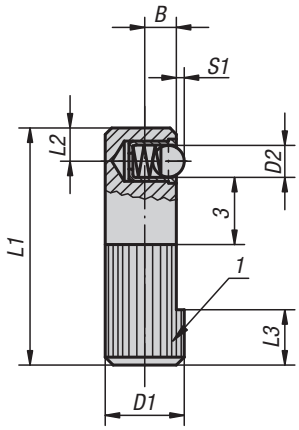
Version:
Threaded sleeve galvanized and blue passivated.Screw case hardened and black oxidised.
Standard spring force, intensified spring force.

Sample order:
K0997.1112

Note:
The push-pull spring plungers, also called two-way spring plungers are used to engage, position or clamp various components. The threaded pin, which is locked against rotation by the hexagonal form can be used for traction or thrust.

Order No.	Form	Version	D	SW	D1	D2	D3	F1 (N)	F2 (N)	C (travel)	L	L1	L3	R	T min.
K0977.1112	I	standard spring force	M12x1,5	8	M4	5,5	6,78	16	38	6,12	20	27,5	1,38	-	8
K0977.1116	I	standard spring force	M16x1,5	12	M5	8	10	25	71	8,7	28	38	1,3	-	10
K0977.1120	I	standard spring force	M20x1,5	15	M6	10	12,2	40	140	10,3	34	47	2,7	-	12
K0977.1212	I	intensified spring force	M12x1,5	8	M4	5,5	6,78	20	60	6,12	20	27,5	1,38	-	8
K0977.1216	I	intensified spring force	M16x1,5	12	M5	8	10	35	103	8,7	28	38	1,3	-	10
K0977.1220	I	intensified spring force	M20x1,5	15	M6	10	12,2	60	175	10,3	34	47	2,7	-	12
K0977.2112	H	standard spring force	M12x1,5	8	M4	5,5	6,78	16	38	6,12	20	27,5	1,38	5,5	8
K0977.2116	H	standard spring force	M16x1,5	12	M5	8	10	25	71	8,7	28	38	1,3	7	10
K0977.2120	H	standard spring force	M20x1,5	15	M6	10	12,2	40	140	10,3	34	47	2,7	9	12
K0977.2212	H	intensified spring force	M12x1,5	8	M4	5,5	6,78	20	60	6,12	20	27,5	1,38	5,5	8
K0977.2216	H	intensified spring force	M16x1,5	12	M5	8	10	35	103	8,7	28	38	1,3	7	10
K0977.2220	H	intensified spring force	M20x1,5	15	M6	10	12,2	60	175	10,3	34	47	2,7	9	12
K0977.3112	K	standard spring force	M12x1,5	8	M4	5,5	6,78	16	38	6,12	20	27,5	1,38	-	8
K0977.3116	K	standard spring force	M16x1,5	12	M5	8	10	25	71	8,7	28	38	1,3	-	10
K0977.3120	K	standard spring force	M20x1,5	15	M6	10	12,2	40	140	10,3	34	47	2,7	-	12
K0977.3212	K	intensified spring force	M12x1,5	8	M4	5,5	6,78	20	60	6,12	20	27,5	1,38	-	8
K0977.3216	K	intensified spring force	M16x1,5	12	M5	8	10	35	103	8,7	28	38	1,3	-	10
K0977.3220	K	intensified spring force	M20x1,5	15	M6	10	12,2	60	175	10,3	34	47	2,7	-	12

Lateral spring plungers



Form A
stainless steel ball,
one side

Form B
POM ball,
one side



Material:
Body mild steel.
Ball steel or stainless steel hardened or POM.
Spring stainless steel or plastic.

Version:
Body black oxidised.
Ball bright.

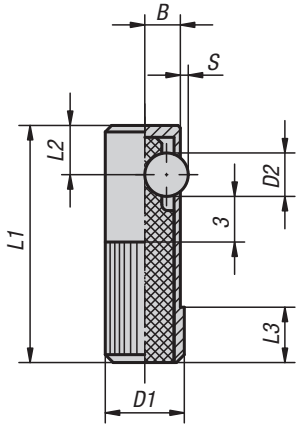
Sample order:
K0374.410

Note:
The lateral spring plunger must be pressed into the hole to at least depth L3. These plungers are for positioning and holding small parts in fixtures. If mechanical machining of the workpiece is to be carried out, other clamps may be necessary. When the fixture is not in use it should be ensured that plastic springs are not under stress.

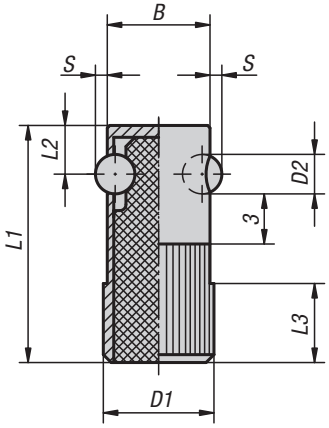
Spring force refers to a mean value.

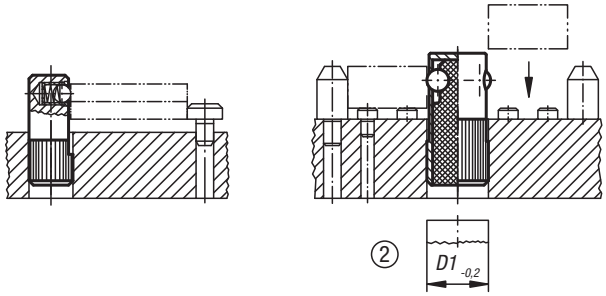
Drawing reference:
1) knurl
2) light holding

Form C
steel ball, one side
plastic spring



Form D
steel ball, both sides
plastic spring





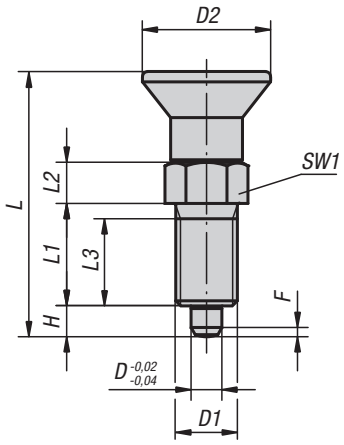
KIPP Lateral spring plungers

Order No.	Form	D1	D2	L1	L2	L3	B	S	S1	Receiving hole H8	Spring force initial N	Spring force final N
K0374.008	A	8	3	25	3,6	6	3,2	-	0,7	8	2,5	6,5
K0374.010	A	10	4	30	4,2	7	4	-	1	10	4,5	9
K0374.012	A	12	5	35	4,8	9	5	-	1,5	12	6,5	13
K0374.014	A	14	6,5	40	5,8	10	5,4	-	1,8	14	8	18
K0374.108	B	8	3	25	3,6	6	3,2	-	0,7	8	2,5	6,5
K0374.110	B	10	4	30	4,2	7	4	-	1	10	4,5	9
K0374.112	B	12	5	35	4,8	9	5	-	1,5	12	6,5	13
K0374.114	B	14	6,5	40	5,8	10	5,4	-	1,8	14	8	18
K0374.410	C	10	5,5	30	7	8	4,5	1	-	10	60	170
K0374.412	C	12	6,5	35	8	9	5,5	1,5	-	12	80	260
K0374.414	C	14	8	40	9	10	6,5	2	-	14	120	480
K0374.616	D	16	5,5	35	7	11	15	1,5	-	16	110	220
K0374.618	D	18	6,5	40	8	12	17	1,8	-	18	120	330
K0374.622	D	22	8	45	9	15	21	2,5	-	22	130	540

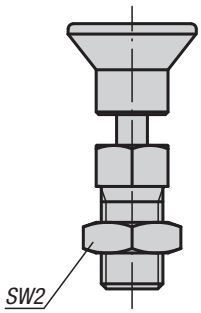
Indexing plungers



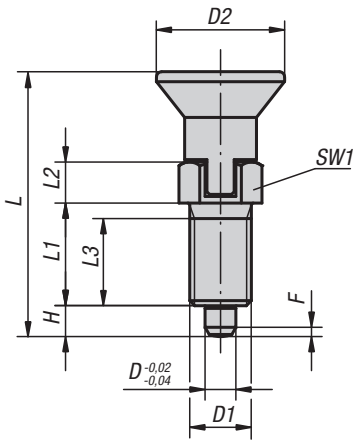
Form A
non-lockout type
without locknut



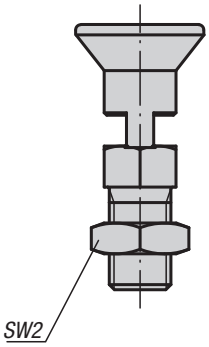
Form B
non-lockout type
with locknut



Form C
lockout type
without locknut



Form D
lockout type
with locknut



Material:
Steel version:
Grub screw and indexing pin steel.

Stainless-steel version:
Indexing pin hardened:
Threaded sleeve 1.4305.
Indexing pin 1.4034.

Indexing pin not hardened:
Threaded sleeve 1.4305.
Indexing pin 1.4305.

Mushroom grip black grey thermoplastic.

Version:
Steel version:
Threaded sleeve, black oxidised.
Indexing pin hardened, ground and black oxidised.

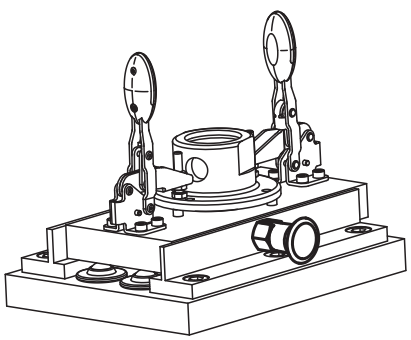
Stainless-steel version:
Indexing pin hardened, ground and bright. Threaded sleeve, bright.
Indexing pin not hardened, ground and bright.

Sample order:
K0338.04206

Note:
Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been manually disengaged. Form C or D is recommended for applications where the plunger remains disengaged over a long period and the pin should be prevented from springing back.

On request:
Special versions.

Accessories:
Spacer rings K0665



Indexing plungers

KIPP Indexing plungers, steel, indexing pin hardened

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0338.1903	K0338.2903	K0338.3903	K0338.4903	3	M6x0,75	14	31,5	12	5	10	3,5	8	-/10/-/10	0,8	4,5	10
K0338.1004	K0338.2004	K0338.3004	K0338.4004	4	M8x1	18	38,5	15	6	13	4	10	-/13/-/13	1	6	12
K0338.1105	K0338.2105	K0338.3105	K0338.4105	5	M10x1	21	43,5	17	7	15	5	13	-/17/-/17	1,3	5	12
K0338.1206	K0338.2206	K0338.3206	K0338.4206	6	M12x1,5	25	51,7	20	8	17	6	14	-/19/-/19	1,8	6	14
K0338.1308	K0338.2308	K0338.3308	K0338.4308	8	M16x1,5	33	68	26	10	23	8	19	-/24/-/24	2,3	15	35
K0338.1410	K0338.2410	K0338.3410	K0338.4410	10	M20x1,5	33	74	28	12	25	10	22	-/30/-/30	2,8	15	34
K0338.1412	K0338.2412	K0338.3412	K0338.4412	12	M20x1,5	33	78	28	14	25	12	22	-/30/-/30	2,8	15	39
K0338.1516	K0338.2516	K0338.3516	K0338.4516	16	M24x2	40	96	32	18	28	16	27	-/36/-/36	3,2	20	46

KIPP Indexing plungers, stainless steel, indexing pin hardened

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0338.01903	K0338.02903	K0338.03903	K0338.04903	3	M6x0,75	14	31,5	12	5	10	3,5	8	-/10/-/10	0,8	4,5	10
K0338.01004	K0338.02004	K0338.03004	K0338.04004	4	M8x1	18	38,5	15	6	13	4	10	-/13/-/13	1	6	12
K0338.01105	K0338.02105	K0338.03105	K0338.04105	5	M10x1	21	43,5	17	7	15	5	13	-/17/-/17	1,3	5	12
K0338.01206	K0338.02206	K0338.03206	K0338.04206	6	M12x1,5	25	51,7	20	8	17	6	14	-/19/-/19	1,8	6	14
K0338.01308	K0338.02308	K0338.03308	K0338.04308	8	M16x1,5	33	68	26	10	23	8	19	-/24/-/24	2,3	15	35
K0338.01410	K0338.02410	K0338.03410	K0338.04410	10	M20x1,5	33	74	28	12	25	10	22	-/30/-/30	2,8	15	34
K0338.01412	K0338.02412	K0338.03412	K0338.04412	12	M20x1,5	33	78	28	14	25	12	22	-/30/-/30	2,8	15	39
K0338.01516	K0338.02516	K0338.03516	K0338.04516	16	M24x2	40	96	32	18	28	16	27	-/36/-/36	3,2	20	46

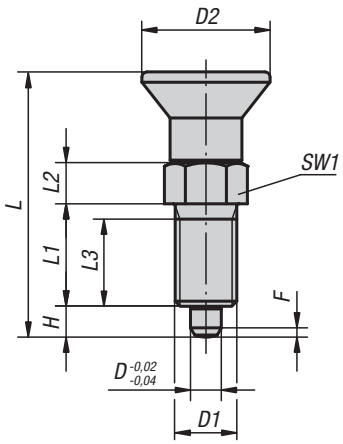
KIPP Indexing plungers, stainless steel, indexing pin not hardened

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0338.11903	K0338.12903	K0338.13903	K0338.14903	3	M6x0,75	14	31,5	12	5	10	3,5	8	-/10/-/10	0,8	4,5	10
K0338.11004	K0338.12004	K0338.13004	K0338.14004	4	M8x1	18	38,5	15	6	13	4	10	-/13/-/13	1	6	12
K0338.11105	K0338.12105	K0338.13105	K0338.14105	5	M10x1	21	43,5	17	7	15	5	13	-/17/-/17	1,3	5	12
K0338.11206	K0338.12206	K0338.13206	K0338.14206	6	M12x1,5	25	51,7	20	8	17	6	14	-/19/-/19	1,8	6	14
K0338.11308	K0338.12308	K0338.13308	K0338.14308	8	M16x1,5	33	68	26	10	23	8	19	-/24/-/24	2,3	15	35
K0338.11410	K0338.12410	K0338.13410	K0338.14410	10	M20x1,5	33	74	28	12	25	10	22	-/30/-/30	2,8	15	34
K0338.11412	K0338.12412	K0338.13412	K0338.14412	12	M20x1,5	33	78	28	14	25	12	22	-/30/-/30	2,8	15	39
K0338.11516	K0338.12516	K0338.13516	K0338.14516	16	M24x2	40	96	32	18	28	16	27	-/36/-/36	3,2	20	46

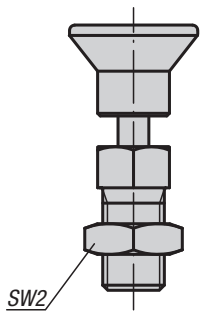
Indexing plungers



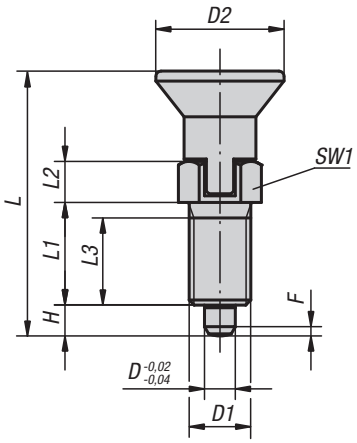
Form A
non-lockout type
without locknut



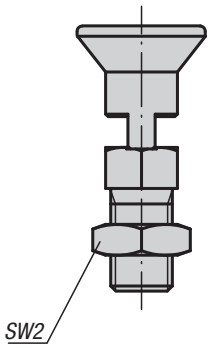
Form B
non-lockout type
with locknut



Form C
lockout type
without locknut



Form D
lockout type
with locknut



Material:
Steel version:
Indexing pin hardened:
grade 5.8.

Stainless steel version,
Indexing pin hardened
Threaded sleeve 1.4305
Indexing pin 1.4034

Indexing pin not hardened
Threaded sleeve 1.4305
Indexing pin 1.4305

Mushroom knob red thermoplastic

Version:
Steel version:
Indexing pin hardened, ground, black oxidised.

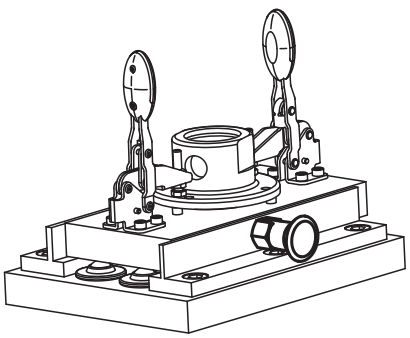
Stainless steel version:
Indexing pin hardened, ground and bright.
Indexing pin not hardened, ground and bright.

Sample order:
K0338.0420684

Note:
Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been manually disengaged. Form C or D is recommended for applications where the plunger remains disengaged over a long period and the pin should be prevented from springing back.

On request:
Special versions.

Accessories:
Spacer rings K0665



Indexing plungers

KIPP Indexing plungers, steel, indexing pin hardened

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0338.190384	K0338.290384	K0338.390384	K0338.490384	3	M6x0,75	14	31,5	12	5	10	3,5	8	-/10/-/10	0,8	4,5	10
K0338.100484	K0338.200484	K0338.300484	K0338.400484	4	M8x1	18	38,5	15	6	13	4	10	-/13/-/13	1	6	12
K0338.110584	K0338.210584	K0338.310584	K0338.410584	5	M10x1	21	43,5	17	7	15	5	13	-/17/-/17	1,3	5	12
K0338.120684	K0338.220684	K0338.320684	K0338.420684	6	M12x1,5	25	51,7	20	8	17	6	14	-/19/-/19	1,8	6	14
K0338.130884	K0338.230884	K0338.330884	K0338.430884	8	M16x1,5	33	68	26	10	23	8	19	-/24/-/24	2,3	15	35
K0338.141084	K0338.241084	K0338.341084	K0338.441084	10	M20x1,5	33	74	28	12	25	10	22	-/30/-/30	2,8	15	34
K0338.141284	K0338.241284	K0338.341284	K0338.441284	12	M20x1,5	33	78	28	14	25	12	22	-/30/-/30	2,8	15	39
K0338.151684	K0338.251684	K0338.351684	K0338.451684	16	M24x2	40	96	32	18	28	16	27	-/36/-/36	3,2	20	46

KIPP Indexing plungers, stainless steel, indexing pin hardened

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0338.0190384	K0338.0290384	K0338.0390384	K0338.0490384	3	M6x0,75	14	31,5	12	5	10	3,5	8	-/10/-/10	0,8	4,5	10
K0338.0100484	K0338.0200484	K0338.0300484	K0338.0400484	4	M8x1	18	38,5	15	6	13	4	10	-/13/-/13	1	6	12
K0338.0110584	K0338.0210584	K0338.0310584	K0338.0410584	5	M10x1	21	43,5	17	7	15	5	13	-/17/-/17	1,3	5	12
K0338.0120684	K0338.0220684	K0338.0320684	K0338.0420684	6	M12x1,5	25	51,7	20	8	17	6	14	-/19/-/19	1,8	6	14
K0338.0130884	K0338.0230884	K0338.0330884	K0338.0430884	8	M16x1,5	33	68	26	10	23	8	19	-/24/-/24	2,3	15	35
K0338.0141084	K0338.0241084	K0338.0341084	K0338.0441084	10	M20x1,5	33	74	28	12	25	10	22	-/30/-/30	2,8	15	34
K0338.0141284	K0338.0241284	K0338.0341284	K0338.0441284	12	M20x1,5	33	78	28	14	25	12	22	-/30/-/30	2,8	15	39
K0338.0151684	K0338.0251684	K0338.0351684	K0338.0451684	16	M24x2	40	96	32	18	28	16	27	-/36/-/36	3,2	20	46

KIPP Indexing plungers, stainless steel, indexing pin not hardened

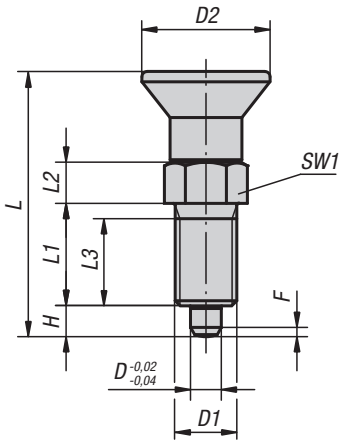
Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0338.1190384	K0338.1290384	K0338.1390384	K0338.1490384	3	M6x0,75	14	31,5	12	5	10	3,5	8	-/10/-/10	0,8	4,5	10
K0338.1100484	K0338.1200484	K0338.1300484	K0338.1400484	4	M8x1	18	38,5	15	6	13	4	10	-/13/-/13	1	6	12
K0338.1110584	K0338.1210584	K0338.1310584	K0338.1410584	5	M10x1	21	43,5	17	7	15	5	13	-/17/-/17	1,3	5	12
K0338.1120684	K0338.1220684	K0338.1320684	K0338.1420684	6	M12x1,5	25	51,7	20	8	17	6	14	-/19/-/19	1,8	6	14
K0338.1130884	K0338.1230884	K0338.1330884	K0338.1430884	8	M16x1,5	33	68	26	10	23	8	19	-/24/-/24	2,3	15	35
K0338.1141084	K0338.1241084	K0338.1341084	K0338.1441084	10	M20x1,5	33	74	28	12	25	10	22	-/30/-/30	2,8	15	34
K0338.1141284	K0338.1241284	K0338.1341284	K0338.1441284	12	M20x1,5	33	78	28	14	25	12	22	-/30/-/30	2,8	15	39
K0338.1151684	K0338.1251684	K0338.1351684	K0338.1451684	16	M24x2	40	96	32	18	28	16	27	-/36/-/36	3,2	20	46

Indexing plungers

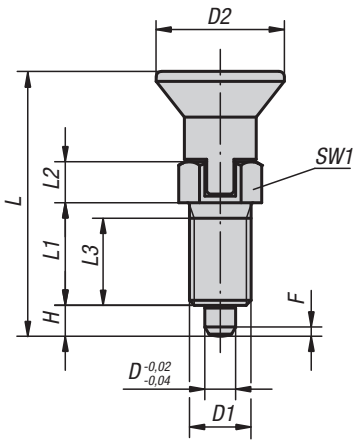
with thread lock



Form AP
non-lockout type
without locknut



Form CP
lockout type
without locknut



Material:
Steel version:
thread and indexing pin free-cutting steel

Stainless steel version:
indexing pin hardened:
threaded sleeve 1.4305
indexing pin 1.4034

Mushroom knob black grey thermoplastic.

Thread lock blue polyamide.

Version:
Steel version:
indexing pin hardened, ground and black oxidised.

Stainless steel version:
indexing pin hardened, ground and bright.

Sample order:
K1096.091206

Note:
Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been manually disengaged. Form CP is recommended for applications where the plunger remains disengaged over a long period and the pin should be prevented from springing back.
The screw lock allows the plunger to be screwed in to the exact depth required, no spacer ring is required. The screw lock is a spotted-on polyamide coating that grips the screw flank.

On request:
Special versions.

Indexing plungers

with thread lock

KIPP Steel, indexing pin hardened

Order No. Form AP	Order No. Form CP	D	D1	D2	L	L1	L2	L3	H	SW1	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1096.91903	**K1096.93903**	3	M6x0,75	14	31,5	12	5	10	3,5	8	0,8	4,5	10
K1096.91004	**K1096.93004**	4	M8x1	18	38,5	15	6	13	4	10	1	6	12
K1096.91105	**K1096.93105**	5	M10x1	21	43,5	17	7	15	5	13	1,3	5	12
K1096.91206	**K1096.93206**	6	M12x1,5	25	51,7	20	8	17	6	14	1,8	6	14
K1096.91308	**K1096.93308**	8	M16x1,5	33	68	26	10	23	8	19	2,3	15	35
K1096.91410	**K1096.93410**	10	M20x1,5	33	74	28	12	25	10	22	2,8	15	34
K1096.91412	**K1096.93412**	12	M20x1,5	33	78	28	14	25	12	22	2,8	15	39
K1096.91516	**K1096.93516**	16	M24x2	40	96	32	18	28	16	27	3,2	20	46

KIPP Stainless steel, indexing pin hardened

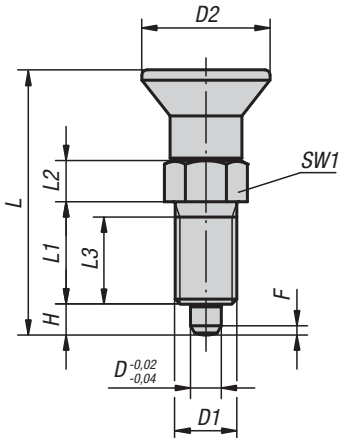
Order No. Form AP	Order No. Form CP	D	D1	D2	L	L1	L2	L3	H	SW1	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1096.091903	**K1096.093903**	3	M6x0,75	14	31,5	12	5	10	3,5	8	0,8	4,5	10
K1096.091004	**K1096.093004**	4	M8x1	18	38,5	15	6	13	4	10	1	6	12
K1096.091105	**K1096.093105**	5	M10x1	21	43,5	17	7	15	5	13	1,3	5	12
K1096.091206	**K1096.093206**	6	M12x1,5	25	51,7	20	8	17	6	14	1,8	6	14
K1096.091308	**K1096.093308**	8	M16x1,5	33	68	26	10	23	8	19	2,3	15	35
K1096.091410	**K1096.093410**	10	M20x1,5	33	74	28	12	25	10	22	2,8	15	34
K1096.091412	**K1096.093412**	12	M20x1,5	33	78	28	14	25	12	22	2,8	15	39
K1096.091516	**K1096.093516**	16	M24x2	40	96	32	18	28	16	27	3,2	20	46

Indexing plungers

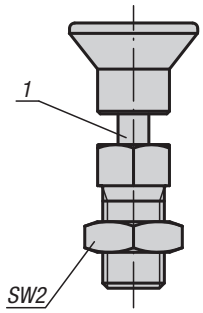
with locked mark



Form A
non-lockout type
without locknut



Form B
non-lockout type
with locknut



Material:
Indexing pin steel.
Threaded sleeve 1.0718.
Mushroom knob black grey thermoplastic.
Lock mark aluminium.

Version:
Indexing pin steel, hardened, ground and black oxidised.
Threaded sleeve black oxidised.
Lock mark red anodised.

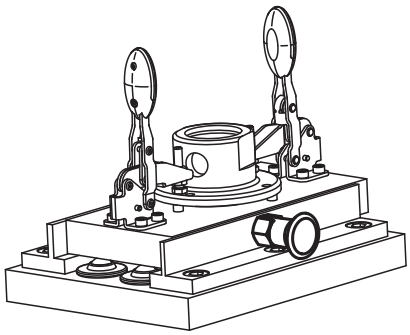
Sample order:
K1149.71105

Note:
Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the plunger has been manually disengaged.
When the lock mark is visible the plunger is either completely disengaged or only partly in the index position.

On request:
Special versions.

Accessories:
Spacer rings K0665

Drawing reference:
1) marking ring



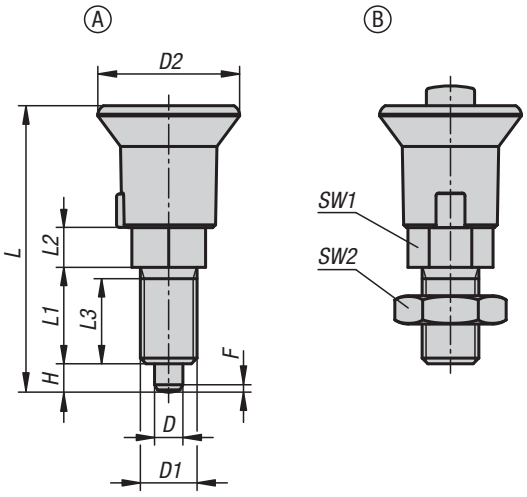
KIPP Indexing plungers with locked mark

Order No. Form A	Order No. Form B	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1149.71105	**K1149.72105**	5	M10x1	21	43,5	17	7	15	5	13	-/17	1,3	5	12
K1149.71206	**K1149.72206**	6	M12x1,5	25	51,7	20	8	17	6	14	-/19	1,8	6	14
K1149.71308	**K1149.72308**	8	M16x1,5	33	68	26	10	23	8	19	-/24	2,3	15	35

Indexing plunger

with lock





Material:
Steel version:
threaded sleeve and indexing pin, free-cutting steel.

Stainless steel version:
indexing pin not hardened.
Threaded sleeve 1.4305.
Indexing pin 1.4305.

Mushroom grip, black grey thermoplastic.
Release button, red thermoplastic.

Version:
Steel version:
threaded sleeve, black oxidised.
Indexing pin hardened, ground and black oxidised.

Stainless steel version:
threaded sleeve, bright.
Indexing pin not hardened, ground and bright.

Sample order:
K1213.11051

Note:
Indexing plungers are used where any change in locking position due to lateral forces should be prevented.
The locking mechanism is activated by pressing the push button.
The red release button enables the indexed position to be changed.

Drawing reference:
Form A: without locknut
Form B: with locknut

KIPP Indexing plunger with locking mechanism

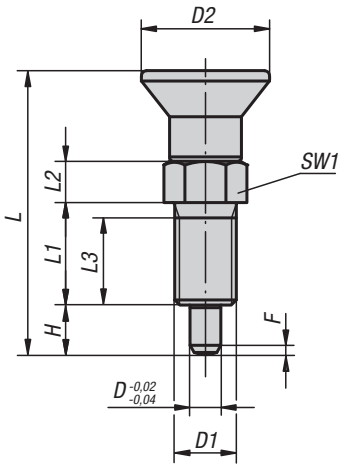
Order No. Form A	Order No. Form B	Main material	Version	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	F x 30°	return force N
K1213.11051	**K1213.21051**	steel	hardened	5	M10x1	25	50,5	17	7	15	5	13	-/17	1,3	8-12
K1213.12061	**K1213.22061**	steel	hardened	6	M12x1,5	25	55,5	20	8	17	6	14	-/19	1,8	4-12
K1213.13081	**K1213.23081**	steel	hardened	8	M16x1,5	33	76	26	10	23	8	19	-/24	2,3	10-20
K1213.14101	**K1213.24101**	steel	hardened	10	M20x1,5	33	82	28	12	25	10	22	-/30	2,8	3-23
K1213.111051	**K1213.121051**	stainless steel	not hardened	5	M10x1	25	50,5	17	7	15	5	13	-/17	1,3	8-12
K1213.112061	**K1213.122061**	stainless steel	not hardened	6	M12x1,5	25	55,5	20	8	17	6	14	-/19	1,8	4-12
K1213.113081	**K1213.123081**	stainless steel	not hardened	8	M16x1,5	33	76	26	10	23	8	19	-/24	2,3	10-20
K1213.114101	**K1213.124101**	stainless steel	not hardened	10	M20x1,5	33	82	28	12	25	10	22	-/30	2,8	3-23

Indexing plungers

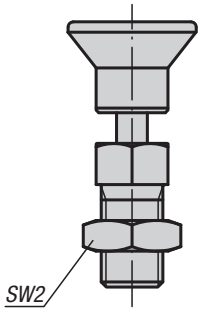
with extended indexing pin



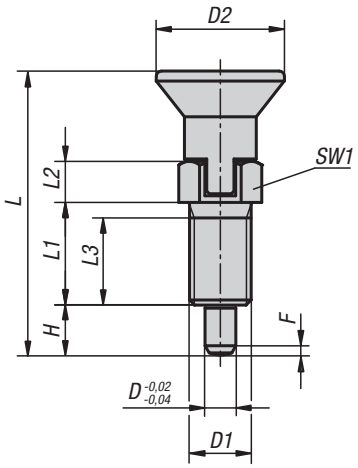
Form A
non-lockout type
without locknut



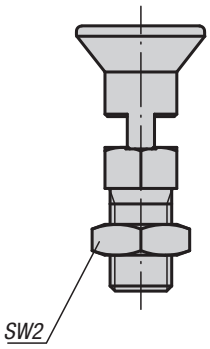
Form B
non-lockout type
with locknut



Form C
lockout type
without locknut



Form D
lockout type
with locknut



Material:
Steel version:
Indexing pin hardened:
grade 5.8.

Stainless steel version,
Indexing pin hardened
Threaded sleeve 1.4305
Indexing pin 1.4034

Indexing pin not hardened
Threaded sleeve 1.4305
Indexing pin 1.4305

Mushroom knob black grey thermoplastic

Version:
Steel version:
Indexing pin hardened, ground, black oxidised.

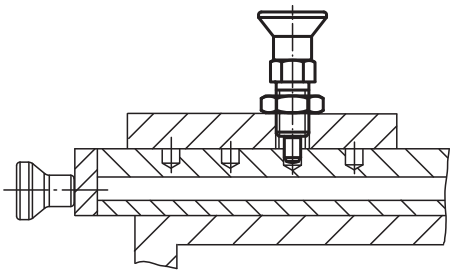
Stainless steel version:
Indexing pin hardened, ground and bright.
Indexing pin not hardened, ground and bright.

Sample order:
K0630.21903

Note:
Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been manually disengaged.

On request:
Special versions.

Accessories:
Spacer rings K0665



KIPP Indexing plungers with extended indexing pins, steel, indexing pins hardened

Order No. Form A	Order No. Form B	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0630.21903	K0630.22903	3	M6x0,75	14	33	12	5	10	5	8	-/10	0,8	4,5	12
K0630.21004	K0630.22004	4	M8x1	18	40,5	15	6	13	6	10	-/13	1	6	15
K0630.21105	K0630.22105	5	M10x1	21	46,5	17	7	15	8	13	-/17	1,3	5	16
K0630.21206	K0630.22206	6	M12x1,5	25	54,7	20	8	17	9	14	-/19	1,8	6	18
K0630.21308	K0630.22308	8	M16x1,5	33	72	26	10	23	12	19	-/24	2,3	15	45
K0630.21410	K0630.22410	10	M20x1,5	33	79	28	12	25	15	22	-/30	2,8	15	43
K0630.21412	K0630.22412	12	M20x1,5	33	84	28	14	25	18	22	-/30	2,8	15	51
K0630.21516	K0630.22516	16	M24x2	40	104	32	18	28	24	27	-/36	3,2	20	60

Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0630.23105	K0630.24105	5	M10x1	21	49,5	17	10	15	8	13	-/17	1,3	5	16
K0630.23206	K0630.24206	6	M12x1,5	25	57,7	20	11	17	9	14	-/19	1,8	6	18
K0630.23308	K0630.24308	8	M16x1,5	33	76	26	14	23	12	19	-/24	2,3	15	45

KIPP Indexing plungers with extended indexing pins, stainless steel, indexing pins hardened

Order No. Form A	Order No. Form B	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0630.201903	K0630.202903	3	M6x0,75	14	33	12	5	10	5	8	-/10	0,8	4,5	12
K0630.201004	K0630.202004	4	M8x1	18	40,5	15	6	13	6	10	-/13	1	6	15
K0630.201105	K0630.202105	5	M10x1	21	46,5	17	7	15	8	13	-/17	1,3	5	16
K0630.201206	K0630.202206	6	M12x1,5	25	54,7	20	8	17	9	14	-/19	1,8	6	18
K0630.201308	K0630.202308	8	M16x1,5	33	72	26	10	23	12	19	-/24	2,3	15	45
K0630.201410	K0630.202410	10	M20x1,5	33	79	28	12	25	15	22	-/30	2,8	15	43
K0630.201412	K0630.202412	12	M20x1,5	33	84	28	14	25	18	22	-/30	2,8	15	51
K0630.201516	K0630.202516	16	M24x2	40	104	32	18	28	24	27	-/36	3,2	20	60

Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0630.203105	K0630.204105	5	M10x1	21	49,5	17	10	15	8	13	-/17	1,3	5	16
K0630.203206	K0630.204206	6	M12x1,5	25	57,7	20	11	17	9	14	-/19	1,8	6	18
K0630.203308	K0630.204308	8	M16x1,5	33	76	26	14	23	12	19	-/24	2,3	15	45

KIPP Indexing plungers with extended indexing pins, stainless steel, indexing pins not hardened

Order No. Form A	Order No. Form B	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0630.211903	K0630.212903	3	M6x0,75	14	33	12	5	10	5	8	-/10	0,8	4,5	12
K0630.211004	K0630.212004	4	M8x1	18	40,5	15	6	13	6	10	-/13	1	6	15
K0630.211105	K0630.212105	5	M10x1	21	46,5	17	7	15	8	13	-/17	1,3	5	16
K0630.211206	K0630.212206	6	M12x1,5	25	54,7	20	8	17	9	14	-/19	1,8	6	18
K0630.211308	K0630.212308	8	M16x1,5	33	72	26	10	23	12	19	-/24	2,3	15	45
K0630.211410	K0630.212410	10	M20x1,5	33	79	28	12	25	15	22	-/30	2,8	15	43
K0630.211412	K0630.212412	12	M20x1,5	33	84	28	14	25	18	22	-/30	2,8	15	51
K0630.211516	K0630.212516	16	M24x2	40	104	32	18	28	24	27	-/36	3,2	20	60

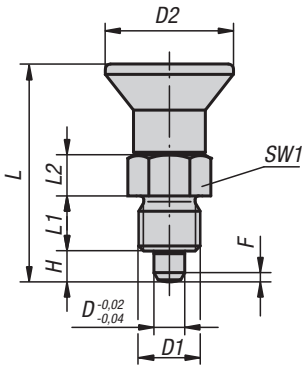
Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0630.213105	K0630.214105	5	M10x1	21	49,5	17	10	15	8	13	-/17	1,3	5	16
K0630.213206	K0630.214206	6	M12x1,5	25	57,7	20	11	17	9	14	-/19	1,8	6	18
K0630.213308	K0630.214308	8	M16x1,5	33	76	26	14	23	12	19	-/24	2,3	15	45

Indexing plungers

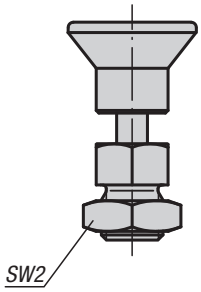
short version



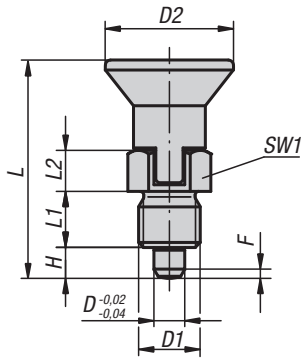
Form A
non-lockout type
without locknut



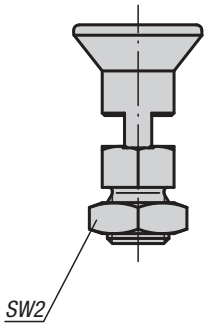
Form B
non-lockout type
with locknut

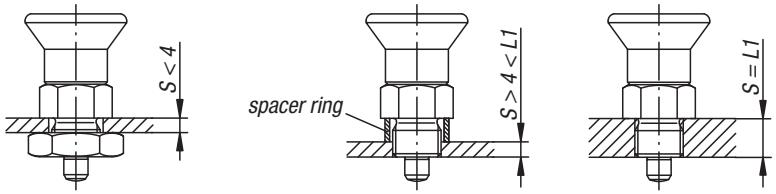


Form C
lockout type
without locknut



Form D
lockout type
with locknut





Material:
Steel version:
Indexing pin hardened:
grade 5.8

Stainless steel version:
Indexing pin not hardened
Threaded sleeve 1.4305
Indexing pin 1.4305

Mushroom knob black grey thermoplastic.

Version:
Steel version:
Indexing pin hardened, ground, black oxidised.

Stainless steel version:
Indexing pin not hardened, ground, bright.

Sample order:
K0631.16206

Note:
Indexing plungers are used to prevent any change in position due to lateral forces. A new locking position can only be set after the pin has been manually disengaged. Form C or D is recommended for applications in which the pin is disengaged over extended periods and should be prevented from springing back.

On request:
Special versions.

Accessories:
Spacer rings K0665

KIPP Indexing plungers, short version, steel, indexing pin hardened

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0631.5903	K0631.6903	K0631.7903	K0631.8903	3	M6x0,75	14	25,5	6	5	3,5	8	-/10/-/10	0,8	4	10
K0631.5004	K0631.6004	K0631.7004	K0631.8004	4	M8x1	18	29,5	6	6	4	10	-/13/-/13	1	4	12
K0631.5105	K0631.6105	K0631.7105	K0631.8105	5	M10x1	21	34,5	8	7	5	13	-/17/-/17	1,3	5	12
K0631.5206	K0631.6206	K0631.7206	K0631.8206	6	M12x1,5	25	41,7	10	8	6	14	-/19/-/19	1,8	6	14
K0631.5308	K0631.6308	K0631.7308	K0631.8308	8	M16x1,5	33	54	12	10	8	19	-/24/-/24	2,3	14	28
K0631.5410	K0631.6410	K0631.7410	K0631.8410	10	M20x1,5	33	61	15	12	10	22	-/30/-/30	2,8	15	32

KIPP Indexing plungers, short version, stainless steel, indexing pin not hardened

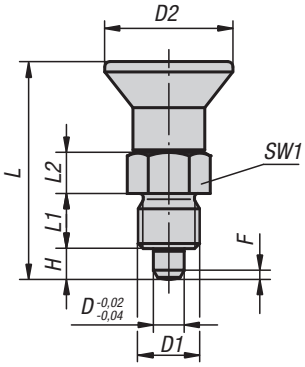
Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0631.15903	K0631.16903	K0631.17903	K0631.18903	3	M6x0,75	14	25,5	6	5	3,5	8	-/10/-/10	0,8	4	10
K0631.15004	K0631.16004	K0631.17004	K0631.18004	4	M8x1	18	29,5	6	6	4	10	-/13/-/13	1	4	12
K0631.15105	K0631.16105	K0631.17105	K0631.18105	5	M10x1	21	34,5	8	7	5	13	-/17/-/17	1,3	5	12
K0631.15206	K0631.16206	K0631.17206	K0631.18206	6	M12x1,5	25	41,7	10	8	6	14	-/19/-/19	1,8	6	14
K0631.15308	K0631.16308	K0631.17308	K0631.18308	8	M16x1,5	33	54	12	10	8	19	-/24/-/24	2,3	14	28
K0631.15410	K0631.16410	K0631.17410	K0631.18410	10	M20x1,5	33	61	15	12	10	22	-/30/-/30	2,8	15	32

Indexing plungers

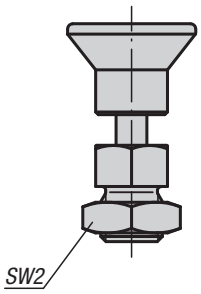
short version



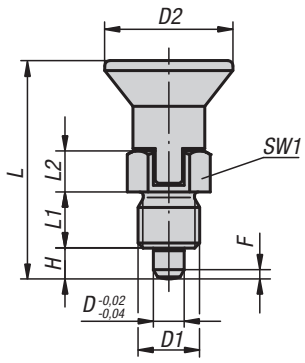
Form A
non-lockout type
without locknut



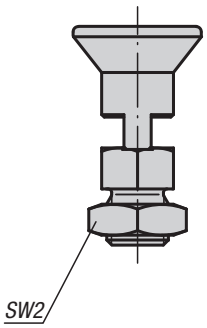
Form B
non-lockout type
with locknut

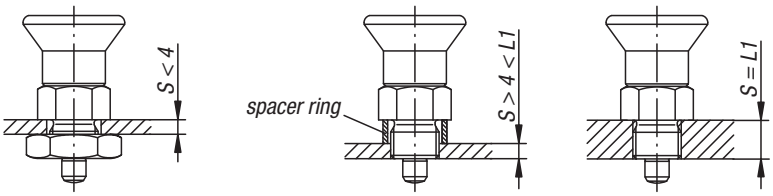


Form C
lockout type
without locknut



Form D
lockout type
with locknut





Material:
Steel version:
Indexing pin hardened:
grade 5.8.

Stainless steel version,
Indexing pin not hardened
Threaded sleeve 1.4305
Indexing pin 1.4305

Mushroom knob red thermoplastic

Version:
Steel version:
Indexing pin hardened, ground, black oxidised.

Stainless steel version:
Indexing pin not hardened, ground, bright.

Sample order:
K0631.1620684

Note:
Indexing plungers are used to prevent any change in position due to lateral forces. A new locking position can only be set after the pin has been manually disengaged. Form C or D is recommended for applications in which the pin is disengaged over extended periods and should be prevented from springing back.

On request:
Special versions.

Accessories:
Spacer rings K0665

KIPP Indexing plungers, short version, steel, indexing pin hardened

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0631.590384	K0631.690384	K0631.790384	K0631.890384	3	M6x0,75	14	25,5	6	5	3,5	8	-/10/-/10	0,8	4	10
K0631.500484	K0631.600484	K0631.700484	K0631.800484	4	M8x1	18	29,5	6	6	4	10	-/13/-/13	1	4	12
K0631.510584	K0631.610584	K0631.710584	K0631.810584	5	M10x1	21	34,5	8	7	5	13	-/17/-/17	1,3	5	12
K0631.520684	K0631.620684	K0631.720684	K0631.820684	6	M12x1,5	25	41,7	10	8	6	14	-/19/-/19	1,8	6	14
K0631.530884	K0631.630884	K0631.730884	K0631.830884	8	M16x1,5	33	54	12	10	8	19	-/24/-/24	2,3	14	28
K0631.541084	K0631.641084	K0631.741084	K0631.841084	10	M20x1,5	33	61	15	12	10	22	-/30/-/30	2,8	15	32

KIPP Indexing plungers, short version, stainless steel, indexing pin not hardened

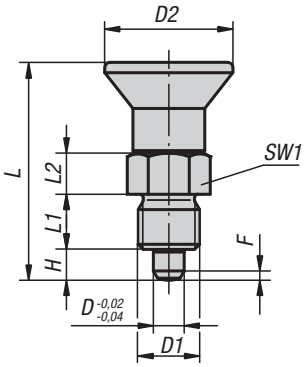
Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0631.1590384	K0631.1690384	K0631.1790384	K0631.1890384	3	M6x0,75	14	25,5	6	5	3,5	8	-/10/-/10	0,8	4	10
K0631.1500484	K0631.1600484	K0631.1700484	K0631.1800484	4	M8x1	18	29,5	6	6	4	10	-/13/-/13	1	4	12
K0631.1510584	K0631.1610584	K0631.1710584	K0631.1810584	5	M10x1	21	34,5	8	7	5	13	-/17/-/17	1,3	5	12
K0631.1520684	K0631.1620684	K0631.1720684	K0631.1820684	6	M12x1,5	25	41,7	10	8	6	14	-/19/-/19	1,8	6	14
K0631.1530884	K0631.1630884	K0631.1730884	K0631.1830884	8	M16x1,5	33	54	12	10	8	19	-/24/-/24	2,3	14	28
K0631.1541084	K0631.1641084	K0631.1741084	K0631.1841084	10	M20x1,5	33	61	15	12	10	22	-/30/-/30	2,8	15	32

Indexing plungers

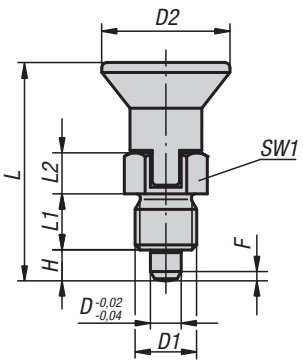
short version, with thread lock



Form AP
non-lockout type
without locknut



Form CP
lockout type
without locknut



Material:
Steel version:
thread and indexing pin free-cutting steel

Stainless steel version:
indexing pin not hardened:
threaded sleeve 1.4305
indexing pin 1.4305

Mushroom knob black grey thermoplastic.

Thread lock blue polyamide.

Version:
Steel version:
Indexing pin hardened, ground, black oxidised.

Stainless steel version:
Indexing pin not hardened, ground, bright.

Sample order:
K1097.95903

Note:
Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been manually disengaged. Form CP is recommended for applications where the plunger remains disengaged over a long period and the pin should be prevented from springing back.
The screw lock allows the plunger to be screwed in to the exact depth required, no spacer ring is required.
The screw lock is a spotted-on polyamide coating that grips the screw flank.

On request:
Special versions.

Accessories:
Spacer rings K0665

Indexing plungers

short version, with thread lock

KIPP Steel, indexing pin hardened

Order No. Form AP	Order No. Form CP	D	D1	D2	L	L1	L2	H	SW1	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1097.95903	**K1097.97903**	3	M6x0,75	14	25,5	6	6	3,5	8	0,8	4	10
K1097.95004	**K1097.97004**	4	M8x1	18	29,5	6	6	4	10	1	4	12
K1097.95105	**K1097.97105**	5	M10x1	21	34,5	8	7	5	13	1,3	5	12
K1097.95206	**K1097.97206**	6	M12x1,5	25	41,7	10	8	6	14	1,8	6	14
K1097.95308	**K1097.97308**	8	M16x1,5	33	54	12	10	8	19	2,3	14	28
K1097.95410	**K1097.97410**	10	M20x1,5	33	61	15	12	10	22	2,8	15	32

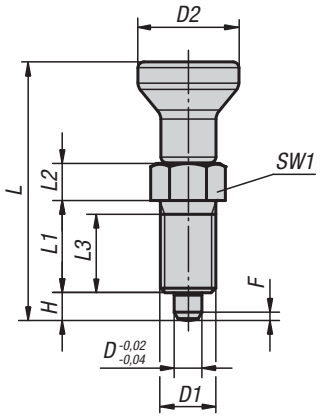
KIPP Stainless steel, indexing pin not hardened

Order No. Form AP	Order No. Form CP	D	D1	D2	L	L1	L2	H	SW1	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1097.195903	**K1097.197903**	3	M6x0,75	14	25,5	6	6	3,5	8	0,8	4	10
K1097.195004	**K1097.197004**	4	M8x1	18	29,5	6	6	4	10	1	4	12
K1097.195105	**K1097.197105**	5	M10x1	21	34,5	8	7	5	13	1,3	5	12
K1097.195206	**K1097.197206**	6	M12x1,5	25	41,7	10	8	6	14	1,8	6	14
K1097.195308	**K1097.197308**	8	M16x1,5	33	54	12	10	8	19	2,3	14	28
K1097.195410	**K1097.197410**	10	M20x1,5	33	61	15	12	10	22	2,8	15	32

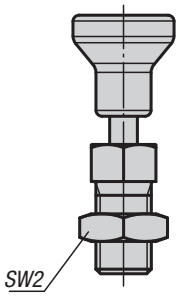
Indexing plungers stainless steel



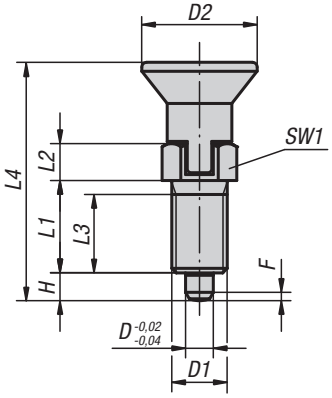
Form A
non-lockout type
without locknut



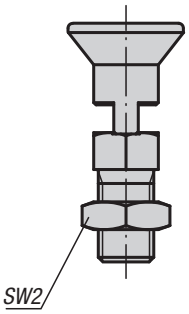
Form B
non-lockout type
with locknut



Form C
lockout type
without locknut



Form D
lockout type
with locknut



Material:
Indexing pin hardened:
Threaded sleeve 1.4305.
Indexing pin 1.4034.

Indexing pin not hardened:
Threaded sleeve 1.4305.
Indexing pin 1.4305.

Mushroom knob 1.4305, electrolytic-polish.

Version:
Bright.
Indexing pin ground.

Sample order:
K0632.001004

Note:
Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been manually disengaged. Form C or D is recommended for applications in which the pin is disengaged over extended periods and should be prevented from springing back.

On request:
Special versions.

Accessories:
Spacer rings K0665

KIPP Indexing plungers stainless steel, indexing pin hardened

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	L4
K0632.001903	K0632.002903	K0632.003903	K0632.004903	3	M6x0,75	14	34,5/-	12	5	10	3,5	8	-/10/-/10	0,8	4,5	10	-/-/31,5/31,5
K0632.001004	K0632.002004	K0632.003004	K0632.004004	4	M8x1	18	43/-	15	6	13	4	10	-/13/-/13	1	6	12	-/-/38,5/38,5
K0632.001105	K0632.002105	K0632.003105	K0632.004105	5	M10x1	21	50/-	17	7	15	5	13	-/17/-/17	1,3	5	12	-/-/43,5/43,5
K0632.001206	K0632.002206	K0632.003206	K0632.004206	6	M12x1,5	25	59/-	20	8	17	6	14	-/19/-/19	1,8	6	14	-/-/51,7/51,7
K0632.001308	K0632.002308	K0632.003308	K0632.004308	8	M16x1,5	33	77/-	26	10	23	8	19	-/24/-/24	2,3	15	35	-/-/68/68
K0632.001410	K0632.002410	K0632.003410	K0632.004410	10	M20x1,5	33	83/-	28	12	25	10	22	-/30/-/30	2,8	15	34	-/-/74/74
K0632.001412	K0632.002412	K0632.003412	K0632.004412	12	M20x1,5	33	87/-	28	14	25	12	22	-/30/-/30	2,8	15	39	-/-/78/78
K0632.001516	K0632.002516	K0632.003516	K0632.004516	16	M24x2	40	106/-	32	18	28	16	27	-/36/-/36	3,2	20	46	-/-/96/96

KIPP Indexing plungers stainless steel, indexing pin not hardened

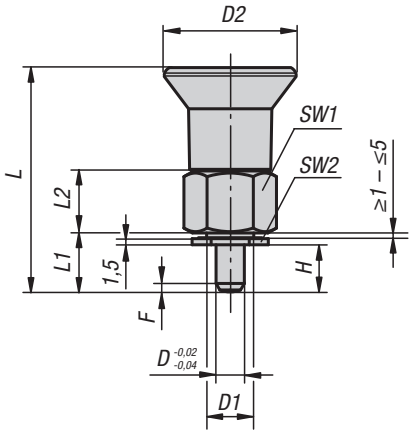
Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	L4
K0632.111903	K0632.112903	K0632.113903	K0632.114903	3	M6x0,75	14	34,5/-	12	5	10	3,5	8	-/10/-/10	0,8	4,5	10	-/-/31,5/31,5
K0632.111004	K0632.112004	K0632.113004	K0632.114004	4	M8x1	18	43/-	15	6	13	4	10	-/13/-/13	1	6	12	-/-/38,5/38,5
K0632.111105	K0632.112105	K0632.113105	K0632.114105	5	M10x1	21	50/-	17	7	15	5	13	-/17/-/17	1,3	5	12	-/-/43,5/43,5
K0632.111206	K0632.112206	K0632.113206	K0632.114206	6	M12x1,5	25	59/-	20	8	17	6	14	-/19/-/19	1,8	6	14	-/-/51,7/51,7
K0632.111308	K0632.112308	K0632.113308	K0632.114308	8	M16x1,5	33	77/-	26	10	23	8	19	-/24/-/24	2,3	15	35	-/-/68/68
K0632.111410	K0632.112410	K0632.113410	K0632.114410	10	M20x1,5	33	83/-	28	12	25	10	22	-/30/-/30	2,8	15	34	-/-/74/74
K0632.111412	K0632.112412	K0632.113412	K0632.114412	12	M20x1,5	33	87/-	28	14	25	12	22	-/30/-/30	2,8	15	39	-/-/78/78
K0632.111516	K0632.112516	K0632.113516	K0632.114516	16	M24x2	40	106/-	32	18	28	16	27	-/36/-/36	3,2	20	46	-/-/96/96

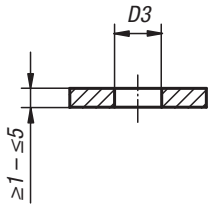
Indexing plungers

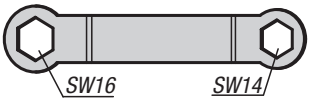
for thin-walled parts



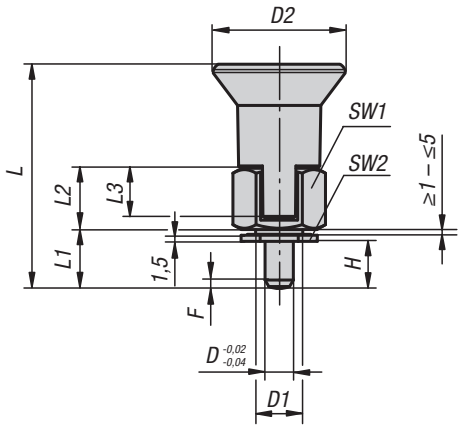
Form A
non-lockout







Form C
lockout



Material:
Steel version:
Indexing pin hardened:
grade 5.8

Stainless steel version:
Indexing pin not hardened
Threaded sleeve 1.4305
Indexing pin 1.4305

Mushroom knob black grey thermoplastic.

Version:
Steel version:
Indexing pin hardened, ground, black oxidised.

Stainless steel version:
Indexing pin not hardened, ground, bright.

Sample order:
K0735.31105 (indexing plunger)
K0631.91416 (double-ended ring spanner)

Note:
These indexing plungers are especially well-suited for assembly in thin-walled parts.
Indexing plungers are used where any change in locking position due to lateral forces should be prevented. A new locking position can be set only after the pin has been manually disengaged.
Form C is recommended for applications where the locking pin should remain disengaged for an extended period and be prevented from springing back.

Accessories:
A double-ended ring spanner can be supplied as an accessory to tighten the nut.

KIPP Indexing plungers for thin-walled parts, steel, indexing pin hardened

Order No.	Form	D	D1	D2	D3	L	L1	L2	L3	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Article number double-ended ring spanner
K0735.31105	A	5	M10x1	28	10	46,5	11,5	13	10,5	5-9	17	14	1,3	6	15	K0631.91416
K0735.31206	A	6	M10x1	28	10	47,5	12,5	13	10,5	6-10	17	14	1,8	7	19	K0631.91416
K0735.33105	C	5	M10x1	28	10	46,5	11,5	13	10,5	5-9	17	14	1,3	6	15	K0631.91416
K0735.33206	C	6	M10x1	28	10	47,5	12,5	13	10,5	6-10	17	14	1,8	7	19	K0631.91416

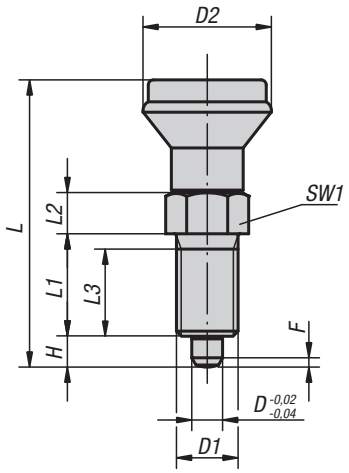
KIPP Indexing plungers for thin-walled parts, stainless steel, indexing pin not hardened

Order No.	Form	D	D1	D2	D3	L	L1	L2	L3	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Article number double-ended ring spanner
K0735.311105	A	5	M10x1	28	10	46,5	11,5	13	10,5	5-9	17	14	1,3	6	15	K0631.91416
K0735.311206	A	6	M10x1	28	10	47,5	12,5	13	10,5	6-10	17	14	1,8	7	19	K0631.91416
K0735.313105	C	5	M10x1	28	10	46,5	11,5	13	10,5	5-9	17	14	1,3	6	15	K0631.91416
K0735.313206	C	6	M10x1	28	10	47,5	12,5	13	10,5	6-10	17	14	1,8	7	19	K0631.91416

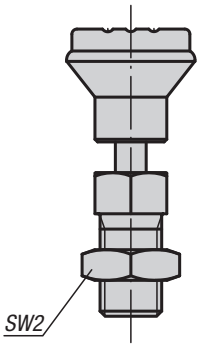
Indexing plungers



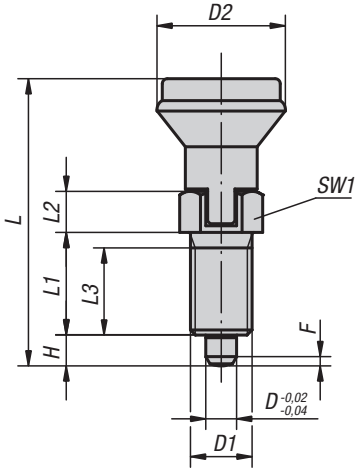
Form A
non-lockout type
without locknut



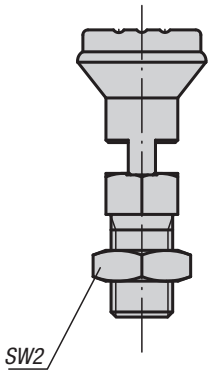
Form B
non-lockout type
with locknut



Form C
lockout type
without locknut



Form D
lockout type
with locknut



Material:
Steel version:
Indexing pin hardened:
grade 5.8.

Stainless steel version,
Indexing pin hardened
Threaded sleeve 1.4305
Indexing pin 1.4034

Indexing pin not hardened
Threaded sleeve 1.4305
Indexing pin 1.4305

Mushroom knob black grey thermoplastic

Version:
Steel version:
Indexing pin hardened, ground, black oxidised.

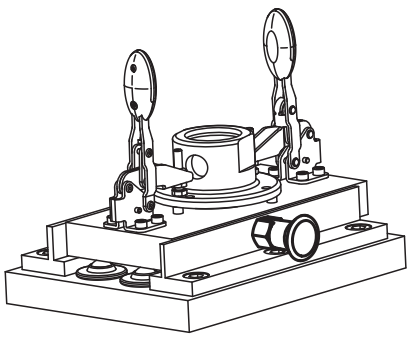
Stainless steel version:
Indexing pin hardened, ground and bright.
Indexing pin not hardened, ground and bright.

Sample order:
K0339.04206

Note:
Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been manually disengaged. Form C or D is recommended for applications in which the pin is disengaged over extended periods and should be prevented from springing back.

On request:
Special versions.

Accessories:
Spacer rings K0665



Indexing plungers

KIPP Indexing plungers, steel, indexing pin hardened

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0339.1105	**K0339.2105**	**K0339.3105**	**K0339.4105**	5	M10x1	21	47	17	7	15	5	13	-/17/-/17	1,3	5	12
K0339.1206	**K0339.2206**	**K0339.3206**	**K0339.4206**	6	M12x1,5	25	56	20	8	17	6	14	-/19/-/19	1,8	6	14
K0339.1308	**K0339.2308**	**K0339.3308**	**K0339.4308**	8	M16x1,5	33	74	26	10	23	8	19	-/24/-/24	2,3	15	35
K0339.1410	**K0339.2410**	**K0339.3410**	**K0339.4410**	10	M20x1,5	33	80	28	12	25	10	22	-/30/-/30	2,8	15	34

KIPP Indexing plungers, stainless steel, indexing pin hardened

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0339.01105	**K0339.02105**	**K0339.03105**	**K0339.04105**	5	M10x1	21	47	17	7	15	5	13	-/17/-/17	1,3	5	12
K0339.01206	**K0339.02206**	**K0339.03206**	**K0339.04206**	6	M12x1,5	25	56	20	8	17	6	14	-/19/-/19	1,8	6	14
K0339.01308	**K0339.02308**	**K0339.03308**	**K0339.04308**	8	M16x1,5	33	74	26	10	23	8	19	-/24/-/24	2,3	15	35
K0339.01410	**K0339.02410**	**K0339.03410**	**K0339.04410**	10	M20x1,5	33	80	28	12	25	10	22	-/30/-/30	2,8	15	34

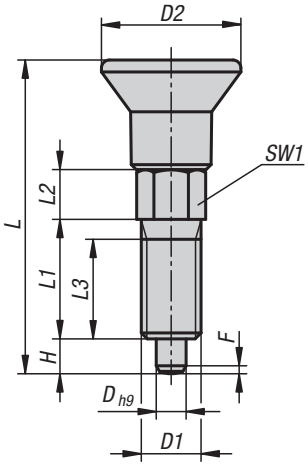
KIPP Indexing plungers, stainless steel, indexing pin not hardened

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0339.11105	**K0339.12105**	**K0339.13105**	**K0339.14105**	5	M10x1	21	47	17	7	15	5	13	-/17/-/17	1,3	5	12
K0339.11206	**K0339.12206**	**K0339.13206**	**K0339.14206**	6	M12x1,5	25	56	20	8	17	6	14	-/19/-/19	1,8	6	14
K0339.11308	**K0339.12308**	**K0339.13308**	**K0339.14308**	8	M16x1,5	33	74	26	10	23	8	19	-/24/-/24	2,3	15	35
K0339.11410	**K0339.12410**	**K0339.13410**	**K0339.14410**	10	M20x1,5	33	80	28	12	25	10	22	-/30/-/30	2,8	15	34

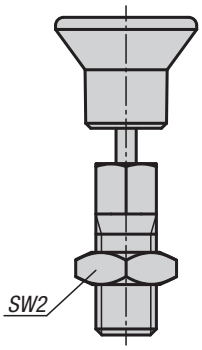
Indexing plungers



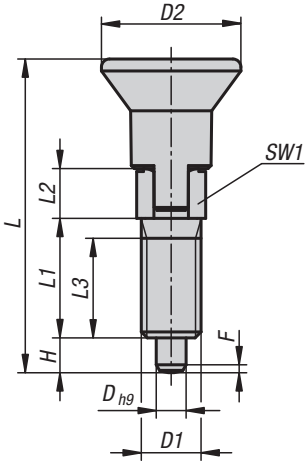
Form A
non-lockout type
without locknut



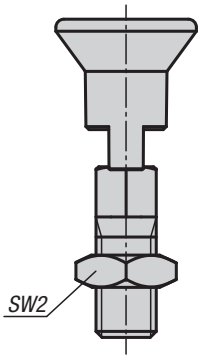
Form B
non-lockout type
with locknut



Form C
lockout type
without locknut



Form D
lockout type
with locknut



Material:
Steel version:
Indexing pin not hardened:
Threaded sleeve 1.0718.
Indexing pin 1.4305.

Stainless steel version:
Indexing pin not hardened:
Threaded sleeve 1.4305.
Indexing pin 1.4305.

Mushroom knob black grey thermoplastic.

Version:
Steel version:
Indexing pin hardened.
Threaded sleeve blue passivated.
Indexing pin bright.

Stainless steel version:
Indexing pin not hardened.
Steel parts bright.

Sample order:
K0747.01903060

Note:
This article is a cost-efficient alternative to the existing indexing plungers. It is suitable for applications which require less precision.
The max. tightening torque should be observed when assembling.

On request:
Special versions and fine thread

KIPP Indexing plungers, steel, indexing pin not hardened

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque max. Nm
K0747.01903060	**K0747.02903060**	**K0747.03903060**	**K0747.04903060**	3	M6	14	31,5	12	5	10	3,5	6	-/10/-/10	0,8	4	10	2
K0747.01004060	**K0747.02004060**	**K0747.03004060**	**K0747.04004060**	4	M6	14	36	15	6	13	4	6	-/10/-/10	1	6	12	2
K0747.01105080	**K0747.02105080**	**K0747.03105080**	**K0747.04105080**	5	M8	14	40	17	7	15	5	8	-/13/-/13	1,3	6	12	7
K0747.01206100	**K0747.02206100**	**K0747.03206100**	**K0747.04206100**	6	M10	18	47,5	20	8	17	6	10	-/17/-/17	1,8	8	15	15
K0747.01308120	**K0747.02308120**	**K0747.03308120**	**K0747.04308120**	8	M12	25	61,7	26	10	23	8	12	-/19/-/19	2,3	8	19	20

KIPP Indexing plungers, stainless steel, indexing pin not hardened

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque max. Nm
K0747.11903060	**K0747.12903060**	**K0747.13903060**	**K0747.14903060**	3	M6	14	31,5	12	5	10	3,5	6	-/10/-/10	0,8	4	10	2
K0747.11004060	**K0747.12004060**	**K0747.13004060**	**K0747.14004060**	4	M6	14	36	15	6	13	4	6	-/10/-/10	1	6	12	2
K0747.11105080	**K0747.12105080**	**K0747.13105080**	**K0747.14105080**	5	M8	14	40	17	7	15	5	8	-/13/-/13	1,3	6	12	7
K0747.11206100	**K0747.12206100**	**K0747.13206100**	**K0747.14206100**	6	M10	18	47,5	20	8	17	6	10	-/17/-/17	1,8	8	15	15
K0747.11308120	**K0747.12308120**	**K0747.13308120**	**K0747.14308120**	8	M12	25	61,7	26	10	23	8	12	-/19/-/19	2,3	8	19	20

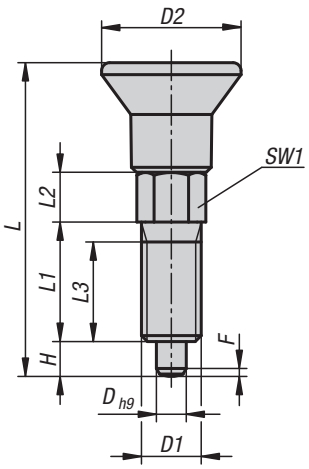
Notes

Indexing plungers

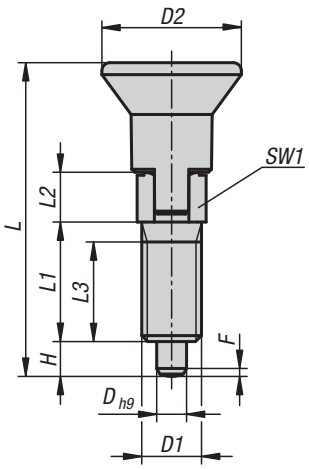
with thread lock



Form AP
non-lockout type
without locknut



Form CP
lockout type
without locknut



Material:
Steel version:
Indexing pin not hardened:
Threaded sleeve 1.0718.
Indexing pin 1.4305.

Stainless steel version:
Indexing pin not hardened:
Threaded sleeve 1.4305.
Indexing pin 1.4305.

Mushroom knob black grey thermoplastic.

Thread lock blue polyamide.

Version:
Steel version:
Indexing pin hardened.
Threaded sleeve blue passivated.
Indexing pin bright.

Stainless steel version:
Indexing pin not hardened.
Steel parts bright.

Sample order:
K1098.091903060

Note:
This article is a cost-effective alternative to the existing indexing plungers. It is suitable for applications which require less precision.
The screw lock allows the thread to be screwed in to the exact depth required, no spacer ring is required.
The screw lock is a spotted-on polyamide coating that grips the screw flank. Screw-in and screw-out torques are reference values only.

On request:
Special versions and fine thread

Indexing plungers

with thread lock

KIPP Steel, indexing pin not hardened

Order No. Form AP	Order No. Form CP	D	D1	D2	L	L1	L2	L3	H	SW1	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1098.091903060	**K1098.093903060**	3	M6	14	31,5	12	5	10	3,5	6	0,8	4	10
K1098.091004060	**K1098.093004060**	4	M6	14	36	15	6	13	4	6	1	6	12
K1098.091105080	**K1098.093105080**	5	M8	14	40	17	7	15	5	8	1,3	6	12
K1098.091206100	**K1098.093206100**	6	M10	18	47,5	20	8	17	6	10	1,8	8	15
K1098.091308120	**K1098.093308120**	8	M12	25	61,7	26	10	23	8	12	2,3	8	19

KIPP Stainless steel, indexing pin not hardened

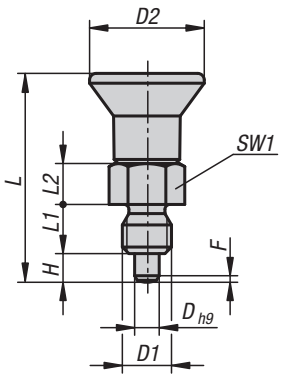
Order No. Form AP	Order No. Form CP	D	D1	D2	L	L1	L2	L3	H	SW1	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1098.191903060	**K1098.193903060**	3	M6	14	31,5	12	5	10	3,5	6	0,8	4	10
K1098.191004060	**K1098.193004060**	4	M6	14	36	15	6	13	4	6	1	6	12
K1098.191105080	**K1098.193105080**	5	M8	14	40	17	7	15	5	8	1,3	6	12
K1098.191206100	**K1098.193206100**	6	M10	18	47,5	20	8	17	6	10	1,8	8	15
K1098.191308120	**K1098.193308120**	8	M12	25	61,7	26	10	23	8	12	2,3	8	19

Indexing plungers

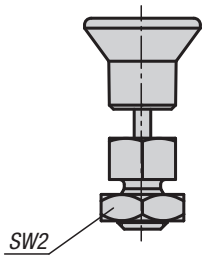
short version



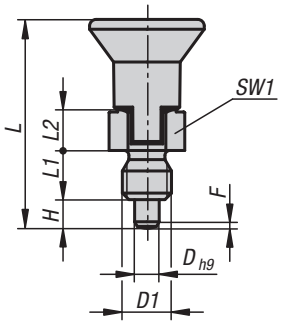
Form A
non-lockout type
without locknut



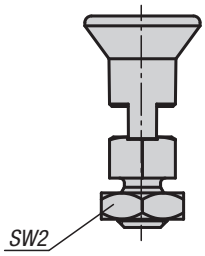
Form B
non-lockout type
with locknut



Form C
lockout type
without locknut



Form D
lockout type
with locknut



Material:
Steel version:
Indexing pin not hardened:
Threaded sleeve 1.0718.
Indexing pin 1.4305.

Stainless steel version:
Indexing pin not hardened:
Threaded sleeve 1.4305.
Indexing pin 1.4305.

Mushroom knob black grey thermoplastic.

Version:
Steel version:
Indexing pin hardened.
Threaded sleeve blue passivated.
Indexing pin bright.

Stainless steel version:
Indexing pin not hardened.
Steel parts bright.

Sample order:
K0748.01903060

Note:
This article is a cost-efficient alternative to the existing indexing plungers. It is suitable for applications which require less precision.
The max. tightening torque should be observed when assembling.

On request:
Special versions.

KIPP Indexing plungers short version, steel, indexing pin not hardened

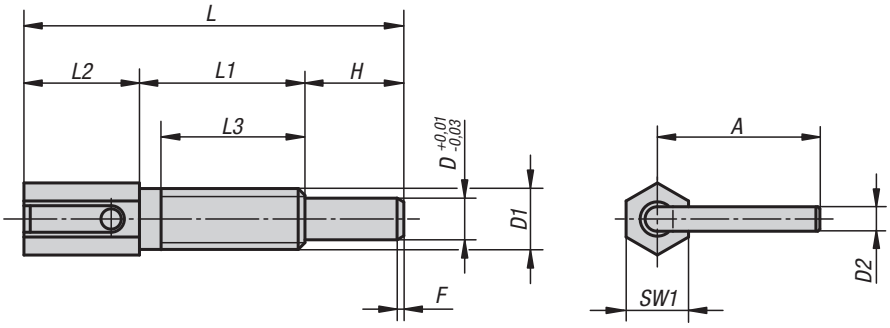
Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque max. Nm
K0748.01903060	K0748.02903060	K0748.03903060	K0748.04903060	3	M6	14	25,5	6	5	3,5	8	-/10/-/10	0,8	3,5	8	2
K0748.01004080	K0748.02004080	K0748.03004080	K0748.04004080	4	M8	18	29,5	6	6	4	10	-/13/-/13	1	3,5	9	2
K0748.01105100	K0748.02105100	K0748.03105100	K0748.04105100	5	M10	21	34,5	8	7	5	13	-/17/-/17	1,3	6	12	7
K0748.01206120	K0748.02206120	K0748.03206120	K0748.04206120	6	M12	25	41,7	10	8	6	14	-/19/-/19	1,8	6	12	15
K0748.01308160	K0748.02308160	K0748.03308160	K0748.04308160	8	M16	33	54	12	10	8	19	-/24/-/24	2,3	6	13	20

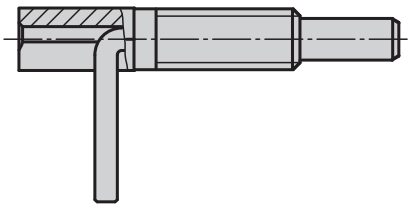
KIPP Indexing plungers, short version, stainless steel, indexing pin not hardened

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	D2	L	L1	L2	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque max. Nm
K0748.11903060	K0748.12903060	K0748.13903060	K0748.14903060	3	M6	14	25,5	6	5	3,5	8	-/10/-/10	0,8	3,5	8	2
K0748.11004080	K0748.12004080	K0748.13004080	K0748.14004080	4	M8	18	29,5	6	6	4	10	-/13/-/13	1	3,5	9	2
K0748.11105100	K0748.12105100	K0748.13105100	K0748.14105100	5	M10	21	34,5	8	7	5	13	-/17/-/17	1,3	6	12	7
K0748.11206120	K0748.12206120	K0748.13206120	K0748.14206120	6	M12	25	41,7	10	8	6	14	-/19/-/19	1,8	6	12	15
K0748.11308160	K0748.12308160	K0748.13308160	K0748.14308160	8	M16	33	54	12	10	8	19	-/24/-/24	2,3	6	13	20

Indexing plungers







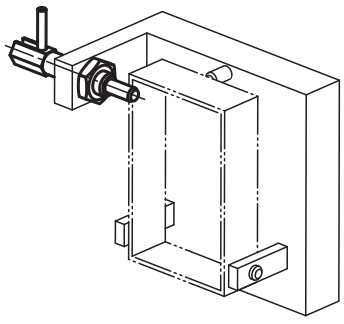
Material:
Steel grade 5.8.

Version:
Blue passivated.

Sample order:
K0340.1206

Note:
Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been manually disengaged.

On request:
Special versions.

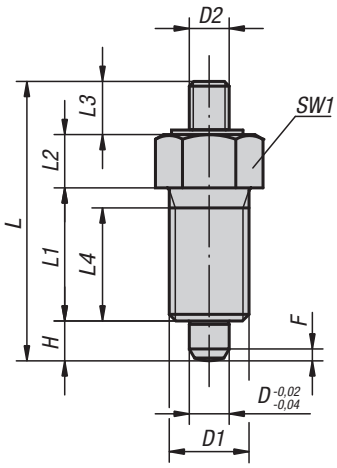


KIPP Indexing plungers

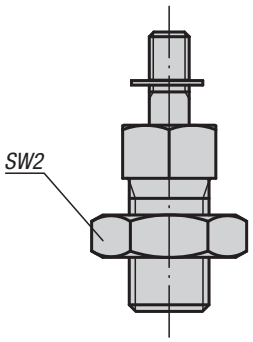
Order No.	D	D1	D2	L	L1	L2	L3	H	A	SW1	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Tightening torque max. Nm
K0340.1104	4	M6	2,3	41,5	20	12	17	9,5	15,5	6	0,7	3	10	1,6
K0340.1905	5	M8	3	54	27	15	24	12	19,2	8	0,9	3,5	13,5	4,5
K0340.1206	6	M10	3,5	65	33,5	17,5	30	14	22,9	10	1,1	4	16	10
K0340.1308	8	M12	4,7	73	31,8	22,2	28	19	31,2	12	1,3	4	22	13
K0340.1410	10	M16	4,7	102,5	50,5	27	44,5	25	32,7	16	1,6	4	23	42

Indexing plungers





Form E
with threaded pin
without locknut



Form F
with threaded pin
with locknut

Material:
Steel version:
Indexing pin hardened:
grade 5.8.

Stainless steel version:
Indexing pin hardened:
Threaded sleeve 1.4305.
Indexing pin 1.4034.

Indexing pin not hardened:
Threaded sleeve 1.4305.
Indexing pin 1.4305.

Version:
Steel version:
Indexing pin hardened, ground, black oxidised.

Stainless steel version:
Indexing pin hardened, ground and bright.
Indexing pin not hardened, ground and bright.

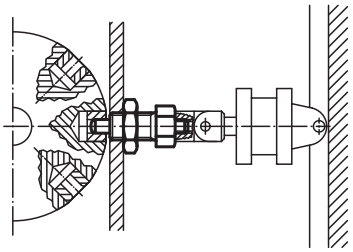
Sample order:
K0341.02308

Note:
Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been disengaged. Special grips can be fitted on the projecting threaded pin. This pin is also suitable for automatic actuation e.g. programme controlled pneumatic cylinder or by remote control using bowden cables.

On request:
Special versions.

Accessories:
Spacer rings K0665

Indexing plungers



KIPP Indexing plungers, steel, indexing pin hardened

Order No. Form E	Order No. Form F	D	D1	D2	L	L1	L2	L3	L4	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0341.1903	**K0341.2903**	3	M6x0,75	M2	24	12	5	3,5	10	3,5	8	- / 10	0,8	4,5	10
K0341.1004	**K0341.2004**	4	M8x1	M3	32	15	6	7	13	4	10	- / 13	1	6	12
K0341.1105	**K0341.2105**	5	M10x1	M4	37	17	7	8	15	5	13	- / 17	1,3	5	12
K0341.1206	**K0341.2206**	6	M12x1,5	M6	42	20	8	8	17	6	14	- / 19	1,8	6	14
K0341.1308	**K0341.2308**	8	M16X1,5	M8	56	26	10	12	23	8	19	- / 24	2,3	15	35
K0341.1410	**K0341.2410**	10	M20x1,5	M8	62	28	12	12	25	10	22	- / 30	2,8	15	34
K0341.1412	**K0341.2412**	12	M20x1,5	M8	66	28	14	12	25	12	22	- / 30	2,8	15	39
K0341.1516	**K0341.2516**	16	M24x2	M10	80	32	18	14	28	16	27	- / 36	3,2	20	46

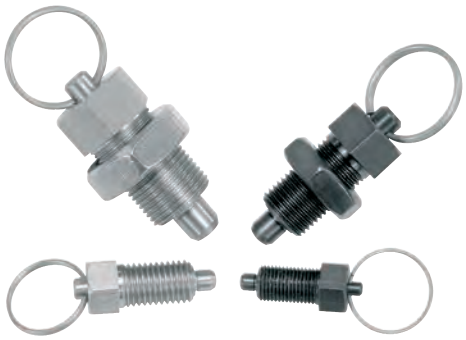
KIPP Indexing plungers, stainless steel, indexing pin hardened

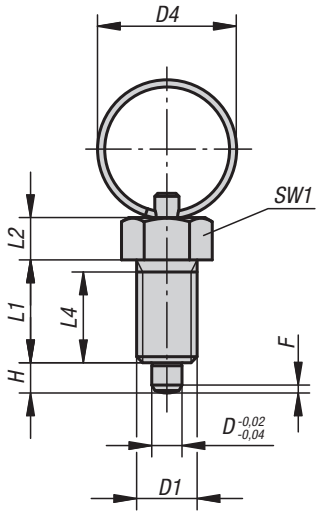
Order No. Form E	Order No. Form F	D	D1	D2	L	L1	L2	L3	L4	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0341.01903	**K0341.02903**	3	M6x0,75	M2	24	12	5	3,5	10	3,5	8	- / 10	0,8	4,5	10
K0341.01004	**K0341.02004**	4	M8x1	M3	32	15	6	7	13	4	10	- / 13	1	6	12
K0341.01105	**K0341.02105**	5	M10x1	M4	37	17	7	8	15	5	13	- / 17	1,3	5	12
K0341.01206	**K0341.02206**	6	M12x1,5	M6	42	20	8	8	17	6	14	- / 19	1,8	6	14
K0341.01308	**K0341.02308**	8	M16X1,5	M8	56	26	10	12	23	8	19	- / 24	2,3	15	35
K0341.01410	**K0341.02410**	10	M20x1,5	M8	62	28	12	12	25	10	22	- / 30	2,8	15	34
K0341.01412	**K0341.02412**	12	M20x1,5	M8	66	28	14	12	25	12	22	- / 30	2,8	15	39
K0341.01516	**K0341.02516**	16	M24x2	M10	80	32	18	14	28	16	27	- / 36	3,2	20	46

KIPP Indexing plungers, stainless steel, indexing pin not hardened

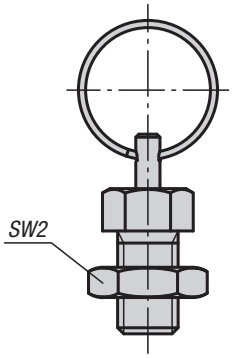
Order No. Form E	Order No. Form F	D	D1	D2	L	L1	L2	L3	L4	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0341.11903	**K0341.12903**	3	M6x0,75	M2	24	12	5	3,5	10	3,5	8	- / 10	0,8	4,5	10
K0341.11004	**K0341.12004**	4	M8x1	M3	32	15	6	7	13	4	10	- / 13	1	6	12
K0341.11105	**K0341.12105**	5	M10x1	M4	37	17	7	8	15	5	13	- / 17	1,3	5	12
K0341.11206	**K0341.12206**	6	M12x1,5	M6	42	20	8	8	17	6	14	- / 19	1,8	6	14
K0341.11308	**K0341.12308**	8	M16X1,5	M8	56	26	10	12	23	8	19	- / 24	2,3	15	35
K0341.11410	**K0341.12410**	10	M20x1,5	M8	62	28	12	12	25	10	22	- / 30	2,8	15	34
K0341.11412	**K0341.12412**	12	M20x1,5	M8	66	28	14	12	25	12	22	- / 30	2,8	15	39
K0341.11516	**K0341.12516**	16	M24x2	M10	80	32	18	14	28	16	27	- / 36	3,2	20	46

Indexing plungers





Form R
without locknut



Form S
with locknut

Material:
Steel version:
Indexing pin hardened:
grade 5.8.

Stainless steel version:
Indexing pin hardened:
Threaded sleeve 1.4305
Indexing pin 1.4034

Indexing pin not hardened
Threaded sleeve 1.4305
Indexing pin 1.4305

Key ring 1.4310, bright.

Version:
Steel version:
Indexing pin hardened, ground, black oxidised.

Stainless steel version:
Indexing pin hardened, ground and bright.
Indexing pin not hardened, ground and bright.

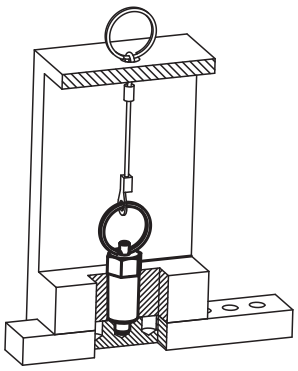
Sample order:
K0342.03308

Note:
Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been disengaged. The key ring is also suitable for automatic actuation of the indexing plunger by e.g. programme-controlled pneumatic cylinder or by remote control using bowden cables.

On request:
Special versions.

Accessories:
Spacer rings K0665

Indexing plungers



KIPP Indexing plungers, steel, indexing pin hardened

Order No. Form R	Order No. Form S	D	D1	D4	L1	L2	L4	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0342.3004	**K0342.4004**	4	M8x1	15	15	6	13	4	10	- / 13	1	6	12
K0342.3105	**K0342.4105**	5	M10x1	23	17	7	15	5	13	- / 17	1,3	5	12
K0342.3206	**K0342.4206**	6	M12x1,5	23	20	8	17	6	14	- / 19	1,8	6	14
K0342.3308	**K0342.4308**	8	M16X1,5	28	26	10	23	8	19	- / 24	2,3	15	35
K0342.3410	**K0342.4410**	10	M20x1,5	28	28	12	25	10	22	- / 30	2,8	15	34

KIPP Indexing plungers, stainless steel, indexing pin hardened

Order No. Form R	Order No. Form S	D	D1	D4	L1	L2	L4	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0342.03004	**K0342.04004**	4	M8x1	15	15	6	13	4	10	- / 13	1	6	12
K0342.03105	**K0342.04105**	5	M10x1	23	17	7	15	5	13	- / 17	1,3	5	12
K0342.03206	**K0342.04206**	6	M12x1,5	23	20	8	17	6	14	- / 19	1,8	6	14
K0342.03308	**K0342.04308**	8	M16X1,5	28	26	10	23	8	19	- / 24	2,3	15	35
K0342.03410	**K0342.04410**	10	M20x1,5	28	28	12	25	10	22	- / 30	2,8	15	34

KIPP Indexing plungers, stainless steel, indexing pin not hardened

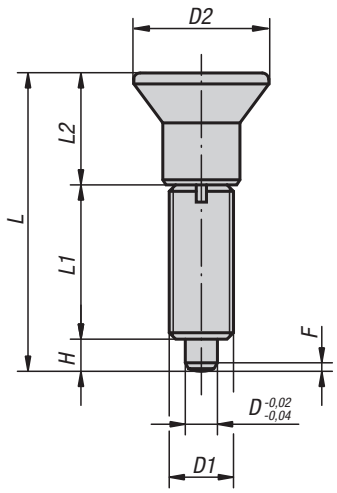
Order No. Form R	Order No. Form S	D	D1	D4	L1	L2	L4	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0342.13004	**K0342.14004**	4	M8x1	15	15	6	13	4	10	- / 13	1	6	12
K0342.13105	**K0342.14105**	5	M10x1	23	17	7	15	5	13	- / 17	1,3	5	12
K0342.13206	**K0342.14206**	6	M12x1,5	23	20	8	17	6	14	- / 19	1,8	6	14
K0342.13308	**K0342.14308**	8	M16X1,5	28	26	10	23	8	19	- / 24	2,3	15	35
K0342.13410	**K0342.14410**	10	M20x1,5	28	28	12	25	10	22	- / 30	2,8	15	34

Indexing plungers

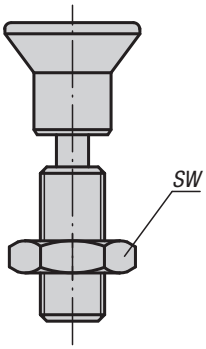
without collar



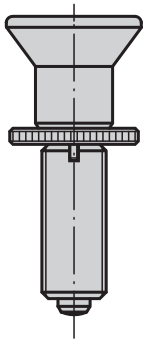
Form G
without locknut

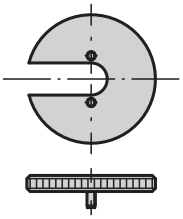


Form H
with locknut



Indexing plunger
with screw-in washer





Material:
Steel version:
Indexing pin hardened:
grade 5.8.

Stainless steel version,
Indexing pin hardened
Threaded sleeve 1.4305
Indexing pin 1.4034

Indexing pin not hardened
Threaded sleeve 1.4305
Indexing pin 1.4305

Mushroom knob black grey thermoplastic

Version:
Steel version:
Indexing pin hardened, ground, black oxidised.

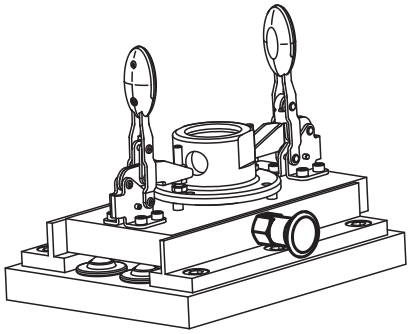
Stainless steel version:
Indexing pin hardened, ground and bright.
Indexing pin not hardened, ground and bright.

Sample order:
K0343.02206

Note:
Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been manually disengaged.
A washer is available to aid by screwing in the indexing plungers. The washer slides beneath the mushroom knob so that the carrier pins engage in the slot.

On request:
Special versions.

Accessories:
Spacer rings K0665



Indexing plungers

without collar

KIPP Indexing plungers without collar, steel, indexing pin hardened

Order No. Form G	Order No. Form H	D	D1	D2	L	L1	L2	H	SW	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. screw-in washer
K0343.1903	**K0343.2903**	3	M6x0,75	14	31,5	17	11	3,5	- / 10	0,8	4,5	10	K0344.99
K0343.1004	**K0343.2004**	4	M8x1	18	38,5	21	13,5	4	- / 13	1,3	6	12	K0344.90
K0343.1105	**K0343.2105**	5	M10x1	21	43,5	24	14,5	5	- / 17	1,3	5	12	K0344.91
K0343.1206	**K0343.2206**	6	M12x1,5	25	51,7	28	17,7	6	- / 19	1,8	6	14	K0344.92
K0343.1308	**K0343.2308**	8	M16x1,5	33	68	36	24	8	- / 24	2,3	15	35	K0344.93
K0343.1410	**K0343.2410**	10	M20x1,5	33	74	40	24	10	- / 30	2,8	15	34	K0344.94
K0343.1412	**K0343.2412**	12	M20x1,5	33	78	42	24	12	- / 30	2,8	15	39	K0344.94
K0343.1516	**K0343.2516**	16	M24x2	40	96	50	30	16	- / 36	3,2	20	46	K0344.95

KIPP Indexing plungers without collar, stainless steel, indexing pin hardened

Order No. Form G	Order No. Form H	D	D1	D2	L	L1	L2	H	SW	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. screw-in washer
K0343.01903	**K0343.02903**	3	M6x0,75	14	31,5	17	11	3,5	- / 10	0,8	4,5	10	K0344.99
K0343.01004	**K0343.02004**	4	M8x1	18	38,5	21	13,5	4	- / 13	1,3	6	12	K0344.90
K0343.01105	**K0343.02105**	5	M10x1	21	43,5	24	14,5	5	- / 17	1,3	5	12	K0344.91
K0343.01206	**K0343.02206**	6	M12x1,5	25	51,7	28	17,7	6	- / 19	1,8	6	14	K0344.92
K0343.01308	**K0343.02308**	8	M16x1,5	33	68	36	24	8	- / 24	2,3	15	35	K0344.93
K0343.01410	**K0343.02410**	10	M20x1,5	33	74	40	24	10	- / 30	2,8	15	34	K0344.94
K0343.01412	**K0343.02412**	12	M20x1,5	33	78	42	24	12	- / 30	2,8	15	39	K0344.94
K0343.01516	**K0343.02516**	16	M24x2	40	96	50	30	16	- / 36	3,2	20	46	K0344.95

KIPP Indexing plungers without collar, stainless steel, indexing pin not hardened

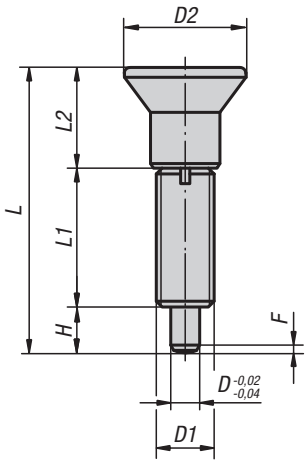
Order No. Form G	Order No. Form H	D	D1	D2	L	L1	L2	H	SW	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. screw-in washer
K0343.11903	**K0343.12903**	3	M6x0,75	14	31,5	17	11	3,5	- / 10	0,8	4,5	10	K0344.99
K0343.11004	**K0343.12004**	4	M8x1	18	38,5	21	13,5	4	- / 13	1,3	6	12	K0344.90
K0343.11105	**K0343.12105**	5	M10x1	21	43,5	24	14,5	5	- / 17	1,3	5	12	K0344.91
K0343.11206	**K0343.12206**	6	M12x1,5	25	51,7	28	17,7	6	- / 19	1,8	6	14	K0344.92
K0343.11308	**K0343.12308**	8	M16x1,5	33	68	36	24	8	- / 24	2,3	15	35	K0344.93
K0343.11410	**K0343.12410**	10	M20x1,5	33	74	40	24	10	- / 30	2,8	15	34	K0344.94
K0343.11412	**K0343.12412**	12	M20x1,5	33	78	42	24	12	- / 30	2,8	15	39	K0344.94
K0343.11516	**K0343.12516**	16	M24x2	40	96	50	30	16	- / 36	3,2	20	46	K0344.95

Indexing plungers

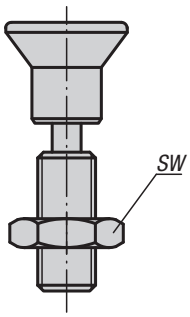
without collar with extended indexing pin



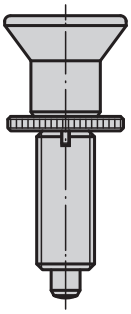
Form G
without locknut

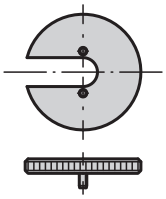


Form H
with locknut



Indexing plunger
with screw-in washer





Material:
Steel version:
Indexing pin hardened:
grade 5.8.

Stainless steel version,
Indexing pin hardened
Threaded sleeve 1.4305
Indexing pin 1.4034

Indexing pin not hardened
Threaded sleeve 1.4305
Indexing pin 1.4305

Mushroom knob black grey thermoplastic

Version:
Steel version:
Indexing pin hardened, ground, black oxidised.

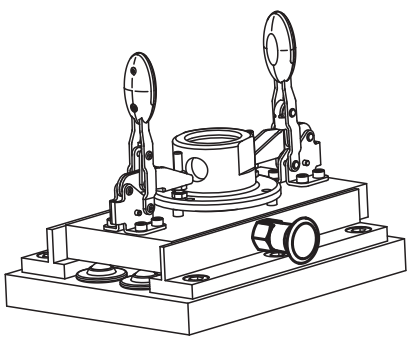
Stainless steel version:
Indexing pin hardened, ground and bright.
Indexing pin not hardened, ground and bright.

Sample order:
K0633.21004

Note:
Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been manually disengaged.
A washer is available to aid by screwing in the indexing plungers. The washer slides beneath the mushroom knob so that the carrier pins engage in the slot.

On request:
Special versions.

Accessories:
Spacer rings K0665



Indexing plungers

without collar with extended indexing pin

KIPP Indexing plungers without collar with extended indexing pin, steel, indexing pin hardened

Order No. Form G	Order No. Form H	D	D1	D2	L	L1	L2	H	SW	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. screw-in washer
K0633.21903	**K0633.22903**	3	M6x0,75	14	33	17	11	5	- / 10	0,8	4,5	12	K0344.99
K0633.21004	**K0633.22004**	4	M8x1	18	40,5	21	13,5	6	- / 13	1	6	15	K0344.90
K0633.21105	**K0633.22105**	5	M10x1	21	46,5	24	14,5	8	- / 17	1,3	5	16	K0344.91
K0633.21206	**K0633.22206**	6	M12x1,5	25	54,7	28	17,7	9	- / 19	1,8	6	18	K0344.92
K0633.21308	**K0633.22308**	8	M16x1,5	33	72	36	24	12	- / 24	2,3	15	45	K0344.93
K0633.21410	**K0633.22410**	10	M20x1,5	33	79	40	24	15	- / 30	2,8	15	43	K0344.94
K0633.21412	**K0633.22412**	12	M20x1,5	33	84	42	24	18	- / 30	2,8	15	51	K0344.94
K0633.21516	**K0633.22516**	16	M24x2	40	104	50	30	24	- / 36	3,2	20	60	K0344.95

KIPP Indexing plungers without collar with extended indexing pin, stainless steel, indexing pin hardened

Order No. Form G	Order No. Form H	D	D1	D2	L	L1	L2	H	SW	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. screw-in washer
K0633.201903	**K0633.202903**	3	M6x0,75	14	33	17	11	5	- / 10	0,8	4,5	12	K0344.99
K0633.201004	**K0633.202004**	4	M8x1	18	40,5	21	13,5	6	- / 13	1	6	15	K0344.90
K0633.201105	**K0633.202105**	5	M10x1	21	46,5	24	14,5	8	- / 17	1,3	5	16	K0344.91
K0633.201206	**K0633.202206**	6	M12x1,5	25	54,7	28	17,7	9	- / 19	1,8	6	18	K0344.92
K0633.201308	**K0633.202308**	8	M16x1,5	33	72	36	24	12	- / 24	2,3	15	45	K0344.93
K0633.201410	**K0633.202410**	10	M20x1,5	33	79	40	24	15	- / 30	2,8	15	43	K0344.94
K0633.201412	**K0633.202412**	12	M20x1,5	33	84	42	24	18	- / 30	2,8	15	51	K0344.94
K0633.201516	**K0633.202516**	16	M24x2	40	104	50	30	24	- / 36	3,2	20	60	K0344.95

KIPP Indexing plungers without collar with extended indexing pin, stainless steel, indexing pin not hardened

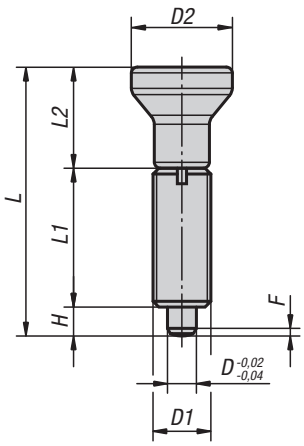
Order No. Form G	Order No. Form H	D	D1	D2	L	L1	L2	H	SW	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. screw-in washer
K0633.211903	**K0633.212903**	3	M6x0,75	14	33	17	11	5	- / 10	0,8	4,5	12	K0344.99
K0633.211004	**K0633.212004**	4	M8x1	18	40,5	21	13,5	6	- / 13	1	6	15	K0344.90
K0633.211105	**K0633.212105**	5	M10x1	21	46,5	24	14,5	8	- / 17	1,3	5	16	K0344.91
K0633.211206	**K0633.212206**	6	M12x1,5	25	54,7	28	17,7	9	- / 19	1,8	6	18	K0344.92
K0633.211308	**K0633.212308**	8	M16x1,5	33	72	36	24	12	- / 24	2,3	15	45	K0344.93
K0633.211410	**K0633.212410**	10	M20x1,5	33	79	40	24	15	- / 30	2,8	15	43	K0344.94
K0633.211412	**K0633.212412**	12	M20x1,5	33	84	42	24	18	- / 30	2,8	15	51	K0344.94
K0633.211516	**K0633.212516**	16	M24x2	40	104	50	30	24	- / 36	3,2	20	60	K0344.95

Indexing plungers

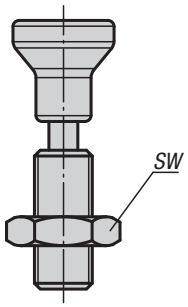
stainless steel without collar



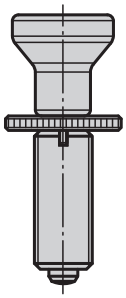
Form G
without locknut

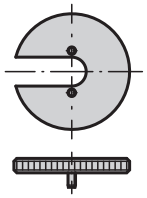


Form H
with locknut



Indexing plunger
with screw-in washer





Material:
Indexing pin hardened:
Threaded sleeve 1.4305.
Indexing pin 1.4034.

Indexing pin not hardened:
Threaded sleeve 1.4305.
Indexing pin 1.4305.

Mushroom knob 1.4305, electrolytic-polish.

Version:
Bright.
Indexing pin ground.

Sample order:
K0634.001004

Note:
Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been manually disengaged. A screw-in washer can be supplied to help screw in the indexing plungers. The washer is slid beneath the disengaged mushroom knob so that the follower pins engage in the slot.

On request:
Special versions.

Accessories:
Spacer rings K0665

KIPP Indexing plungers stainless steel without collar, indexing pin hardened

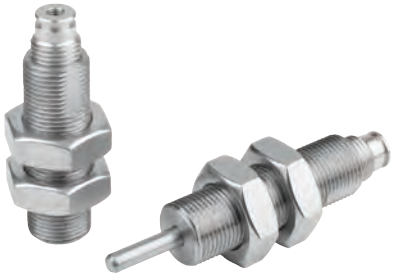
Order No. Form G	Order No. Form H	D	D1	D2	L	L1	L2	H	SW	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. screw-in washer
K0634.001903	**K0634.002903**	3	M6x0,75	14	34,5	17	14	3,5	-/10	0,8	4,5	10	K0344.99
K0634.001004	**K0634.002004**	4	M8x1	18	43	21	18	4	-/13	1	6	12	K0344.90
K0634.001105	**K0634.002105**	5	M10x1	21	50	24	21	5	-/17	1,3	5	12	K0344.91
K0634.001206	**K0634.002206**	6	M12x1,5	25	59	28	25	6	-/19	1,8	6	14	K0344.92
K0634.001308	**K0634.002308**	8	M16x1,5	33	77	36	33	8	-/24	2,3	15	35	K0344.93
K0634.001410	**K0634.002410**	10	M20x1,5	33	83	40	33	10	-/30	2,8	15	34	K0344.94
K0634.001412	**K0634.002412**	12	M20x1,5	33	87	42	33	12	-/30	2,8	15	39	K0344.94
K0634.001516	**K0634.002516**	16	M24x2	40	106	50	40	16	-/36	3,2	20	46	K0344.95

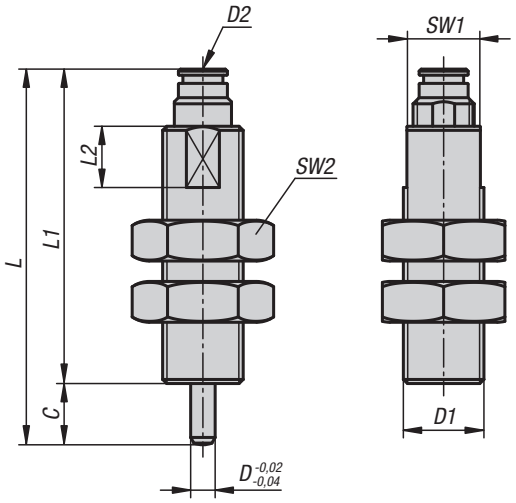
KIPP Indexing plungers stainless steel without collar, indexing pin not hardened

Order No. Form G	Order No. Form H	D	D1	D2	L	L1	L2	H	SW	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. screw-in washer
K0634.111903	**K0634.112903**	3	M6x0,75	14	34,5	17	14	3,5	-/10	0,8	4,5	10	K0344.99
K0634.111004	**K0634.112004**	4	M8x1	18	43	21	18	4	-/13	1	6	12	K0344.90
K0634.111105	**K0634.112105**	5	M10x1	21	50	24	21	5	-/17	1,3	5	12	K0344.91
K0634.111206	**K0634.112206**	6	M12x1,5	25	59	28	25	6	-/19	1,8	6	14	K0344.92
K0634.111308	**K0634.112308**	8	M16x1,5	33	77	36	33	8	-/24	2,3	15	35	K0344.93
K0634.111410	**K0634.112410**	10	M20x1,5	33	83	40	33	10	-/30	2,8	15	34	K0344.94
K0634.111412	**K0634.112412**	12	M20x1,5	33	87	42	33	12	-/30	2,8	15	39	K0344.94
K0634.111516	**K0634.112516**	16	M24x2	40	106	50	40	16	-/36	3,2	20	46	K0344.95

Indexing plungers

pneumatic





Material:
Steel version:
threaded sleeve and thrust pin, free-cutting steel.
Hexagon nuts, steel, grade 04.
Stainless steel version:
threaded sleeve 1.4305
thrust pin 1.4034
hexagon nuts, A2 stainless steel.

Version:
Steel version:
threaded sleeve, black oxidised.
thrust pin hardened, black oxidised and ground
hexagon nuts, black oxidised
Stainless steel version:
threaded sleeve, bright.
thrust pin, hardened, ground and bright
hexagon nuts, bright

Sample order:
K1116.1206010

Pneumatic cylinder:
Single-acting piston rod cylinder.
Materials:
cylinder tube, nickel-plated brass,
piston rod, stainless steel
seals, NBR, PU.
Operating medium:
filtered and dried air, oiled or not oiled.
Application temperature: -20 °C to +80 °C.

KIPP Indexing plungers, pneumatic

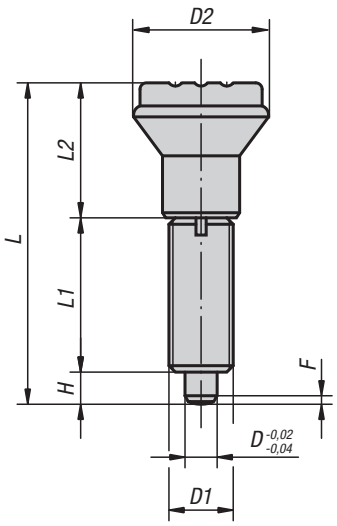
Order No. steel	Order No. stainless steel	D	D1	D2	C (travel)	L	L1	L2	SW1	SW2	Operating pressure bar	Piston force at 6 bar (N)	Spring retraction force ca. N
K1116.1206010	**K1116.01206010**	6	M20x1,5	M5	10	80	70	15	18	30	2 - 6	38,7-35,1	9,9-6
K1116.1206015	**K1116.01206015**	6	M20x1,5	M5	15	92	77	15	18	30	2 - 6	38,7-32,9	11,8-6
K1116.1308010	**K1116.01308010**	8	M20x1,5	M5	10	77	67	15	18	30	2 - 6	39,6-35,3	11,6-5,1
K1116.1308015	**K1116.01308015**	8	M20x1,5	M5	15	89	74	15	18	30	2 - 6	39,6-33,1	11,6-5,1

Indexing plungers

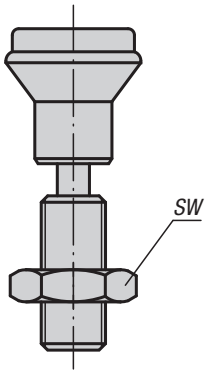
without collar



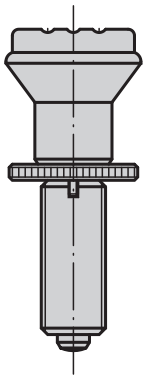
Form G
without locknut

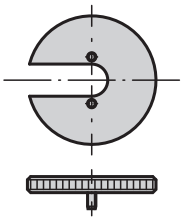


Form H
with locknut



Indexing plunger
with screw-in washer





Material:
Steel version:
Indexing pin hardened:
grade 5.8.

Stainless steel version,
Indexing pin hardened
Threaded sleeve 1.4305
Indexing pin 1.4034

Indexing pin not hardened
Threaded sleeve 1.4305
Indexing pin 1.4305

Mushroom knob black grey thermoplastic

Version:
Steel version:
Indexing pin hardened, ground, black oxidised.

Stainless steel version:
Indexing pin hardened, ground and bright.
Indexing pin not hardened, ground and bright.

Sample order:
K0344.02206

Note:
Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been manually disengaged.
A screw-in washer can be supplied to help screw in the indexing plungers. The washer is slid beneath the disengaged mushroom knob so that the carrier pins engage in the slot.

On request:
Special versions.

Accessories:
Spacer rings K0665

Indexing plungers

without collar

KIPP Indexing plungers without collar, steel, indexing pin hardened

Order No. Form G	Order No. Form H	D	D1	D2	L	L1	L2	H	SW	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. screw-in washer
K0344.1105	**K0344.2105**	5	M10x1	21	47	24	18	5	-/17	1,3	5	12	K0344.91
K0344.1206	**K0344.2206**	6	M12x1,5	25	56	28	22	6	-/19	1,8	6	14	K0344.92
K0344.1308	**K0344.2308**	8	M16X1,5	33	74	36	30	8	-/24	2,3	15	35	K0344.93
K0344.1410	**K0344.2410**	10	M20x1,5	33	80	40	30	10	-/30	2,8	15	34	K0344.94

KIPP Indexing plungers without collar, stainless steel, indexing pin hardened

Order No. Form G	Order No. Form H	D	D1	D2	L	L1	L2	H	SW	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. screw-in washer
K0344.01105	**K0344.02105**	5	M10x1	21	47	24	18	5	-/17	1,3	5	12	K0344.91
K0344.01206	**K0344.02206**	6	M12x1,5	25	56	28	22	6	-/19	1,8	6	14	K0344.92
K0344.01308	**K0344.02308**	8	M16X1,5	33	74	36	30	8	-/24	2,3	15	35	K0344.93
K0344.01410	**K0344.02410**	10	M20x1,5	33	80	40	30	10	-/30	2,8	15	34	K0344.94

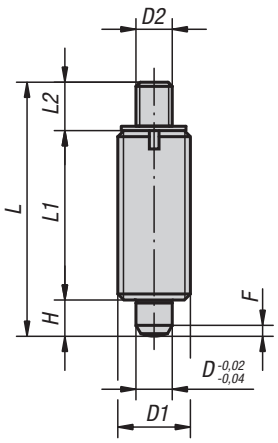
KIPP Indexing plungers without collar, stainless steel, indexing pin not hardened

Order No. Form G	Order No. Form H	D	D1	D2	L	L1	L2	H	SW	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. screw-in washer
K0344.11105	**K0344.12105**	5	M10x1	21	47	24	18	5	-/17	1,3	5	12	K0344.91
K0344.11206	**K0344.12206**	6	M12x1,5	25	56	28	22	6	-/19	1,8	6	14	K0344.92
K0344.11308	**K0344.12308**	8	M16X1,5	33	74	36	30	8	-/24	2,3	15	35	K0344.93
K0344.11410	**K0344.12410**	10	M20x1,5	33	80	40	30	10	-/30	2,8	15	34	K0344.94

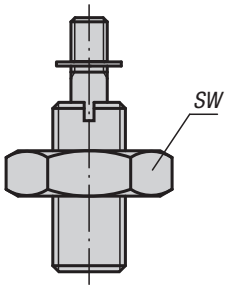
Indexing plungers

without collar

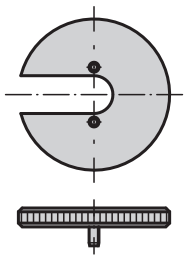




Form J
with threaded pin
without locknut



Form K
with threaded pin
with locknut



Material:
Steel version:
Indexing pin hardened:
grade 5.8.

Stainless steel version:
Indexing pin hardened:
Threaded sleeve 1.4305.
Indexing pin 1.4034.

Indexing pin not hardened:
Threaded sleeve 1.4305.
Indexing pin 1.4305.

Version:
Steel version:
Indexing pin hardened, ground, black oxidised.

Stainless steel version:
Indexing pin hardened, ground and bright.
Indexing pin not hardened, ground and bright.

Sample order:
K0345.01206

Note:
Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been disengaged.
Special grips can be fitted on the projecting threaded pin. This pin is also suitable for automatic actuation by e.g. program controlled pneumatic cylinder or by remote control using bowden cables.
A washer is available to aid screwing in the indexing plungers. The washer is placed on the threaded sleeve so that the carrier pins engage in the slot.

On request:
Special versions.

Accessories:
Spacer rings K0665

Indexing plungers

without collar

KIPP Indexing plungers without collar, steel, indexing pin hardened

Order No. Form J	Order No. Form K	D	D1	D2	L	L1	L2	H	SW	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. screw-in washer
K0345.1903	**K0345.2903**	3	M6x0,75	M2	24	17	3,5	3,5	-/10	0,8	4,5	10	K0344.99
K0345.1004	**K0345.2004**	4	M8x1	M3	32	21	7	4	-/13	1	6	12	K0344.90
K0345.1105	**K0345.2105**	5	M10x1	M4	37	24	8	5	-/17	1,3	5	12	K0344.91
K0345.1206	**K0345.2206**	6	M12x1,5	M6	42	28	8	6	-/19	1,8	6	14	K0344.92
K0345.1308	**K0345.2308**	8	M16x1,5	M8	56	36	12	8	-/24	2,3	15	35	K0344.93
K0345.1410	**K0345.2410**	10	M20x1,5	M8	62	40	12	10	-/30	2,8	15	34	K0344.94
K0345.1412	**K0345.2412**	12	M20x1,5	M8	66	42	12	12	-/30	2,8	15	39	K0344.94
K0345.1516	**K0345.2516**	16	M24x2	M10	80	50	14	16	-/36	3,2	20	46	K0344.95

KIPP Indexing plungers without collar, stainless steel, indexing pin hardened

Order No. Form J	Order No. Form K	D	D1	D2	L	L1	L2	H	SW	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. screw-in washer
K0345.01903	**K0345.02903**	3	M6x0,75	M2	24	17	3,5	3,5	-/10	0,8	4,5	10	K0344.99
K0345.01004	**K0345.02004**	4	M8x1	M3	32	21	7	4	-/13	1	6	12	K0344.90
K0345.01105	**K0345.02105**	5	M10x1	M4	37	24	8	5	-/17	1,3	5	12	K0344.91
K0345.01206	**K0345.02206**	6	M12x1,5	M6	42	28	8	6	-/19	1,8	6	14	K0344.92
K0345.01308	**K0345.02308**	8	M16x1,5	M8	56	36	12	8	-/24	2,3	15	35	K0344.93
K0345.01410	**K0345.02410**	10	M20x1,5	M8	62	40	12	10	-/30	2,8	15	34	K0344.94
K0345.01412	**K0345.02412**	12	M20x1,5	M8	66	42	12	12	-/30	2,8	15	39	K0344.94
K0345.01516	**K0345.02516**	16	M24x2	M10	80	50	14	16	-/36	3,2	20	46	K0344.95

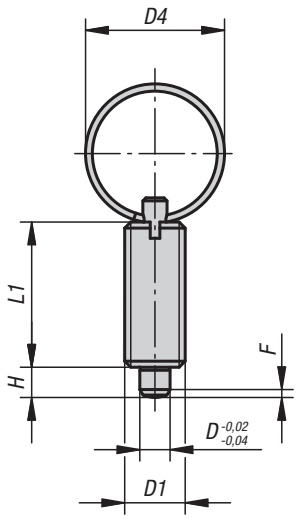
KIPP Indexing plungers without collar, stainless steel, indexing pin not hardened

Order No. Form J	Order No. Form K	D	D1	D2	L	L1	L2	H	SW	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. screw-in washer
K0345.11903	**K0345.12903**	3	M6x0,75	M2	24	17	3,5	3,5	-/10	0,8	4,5	10	K0344.99
K0345.11004	**K0345.12004**	4	M8x1	M3	32	21	7	4	-/13	1	6	12	K0344.90
K0345.11105	**K0345.12105**	5	M10x1	M4	37	24	8	5	-/17	1,3	5	12	K0344.91
K0345.11206	**K0345.12206**	6	M12x1,5	M6	42	28	8	6	-/19	1,8	6	14	K0344.92
K0345.11308	**K0345.12308**	8	M16x1,5	M8	56	36	12	8	-/24	2,3	15	35	K0344.93
K0345.11410	**K0345.12410**	10	M20x1,5	M8	62	40	12	10	-/30	2,8	15	34	K0344.94
K0345.11412	**K0345.12412**	12	M20x1,5	M8	66	42	12	12	-/30	2,8	15	39	K0344.94
K0345.11516	**K0345.12516**	16	M24x2	M10	80	50	14	16	-/36	3,2	20	46	K0344.95

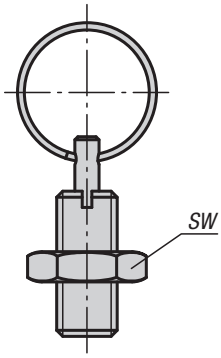
Indexing plungers

without collar

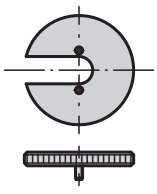




Form T
without locknut



Form U
with locknut



Material:
Steel version:
Indexing pin hardened:
grade 5.8.

Stainless steel version:
Indexing pin hardened:
Threaded sleeve 1.4305
Indexing pin 1.4034

Indexing pin not hardened
Threaded sleeve 1.4305
Indexing pin 1.4305

Key ring 1.4310, bright.

Version:
Steel version:
Indexing pin hardened, ground, black oxidised.

Stainless steel version:
Indexing pin hardened, ground and bright.
Indexing pin not hardened, ground and bright.

Sample order:
K0635.03206

Note:
Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been disengaged.
The key ring is also suitable for actuation of the indexing plungers e.g. automatically (program-controlled) with the aid of a pneumatic cylinder or remote control with bowden cables.
A screw-in washer can be supplied to help screw in the indexing plungers. The washer is fitted onto the threaded sleeve so that the carrier pins engage in the slot.

On request:
Special versions.

Accessories:
Spacer rings K0665

Indexing plungers

without collar

KIPP Indexing plungers without collar, steel, indexing pin hardened

Order No. Form T	Order No. Form U	D	D1	D4	L1	H	SW	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. screw-in washer
K0635.3004	**K0635.4004**	4	M8x1	15	21	4	-/13	1	6	12	K0344.90
K0635.3105	**K0635.4105**	5	M10x1	23	24	5	-/17	1,3	5	12	K0344.91
K0635.3206	**K0635.4206**	6	M12x1,5	23	28	6	-/19	1,8	6	14	K0344.92
K0635.3308	**K0635.4308**	8	M16x1,5	28	36	8	-/24	2,3	15	35	K0344.93
K0635.3410	**K0635.4410**	10	M20x1,5	28	40	10	-/30	2,8	15	34	K0344.94

KIPP Indexing plungers without collar, stainless steel, indexing pin hardened

Order No. Form T	Order No. Form U	D	D1	D4	L1	H	SW	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. screw-in washer
K0635.03004	**K0635.04004**	4	M8x1	15	21	4	-/13	1	6	12	K0344.90
K0635.03105	**K0635.04105**	5	M10x1	23	24	5	-/17	1,3	5	12	K0344.91
K0635.03206	**K0635.04206**	6	M12x1,5	23	28	6	-/19	1,8	6	14	K0344.92
K0635.03308	**K0635.04308**	8	M16x1,5	28	36	8	-/24	2,3	15	35	K0344.93
K0635.03410	**K0635.04410**	10	M20x1,5	28	40	10	-/30	2,8	15	34	K0344.94

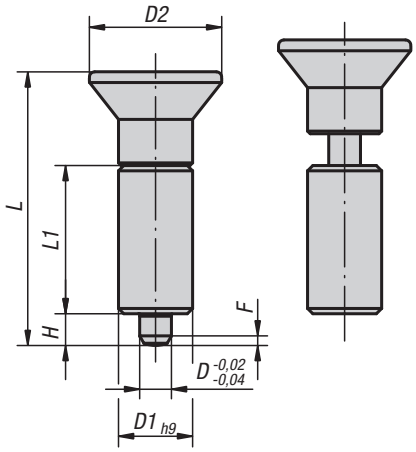
KIPP Indexing plungers without collar, stainless steel, indexing pin not hardened

Order No. Form T	Order No. Form U	D	D1	D4	L1	H	SW	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Order No. screw-in washer
K0635.13004	**K0635.14004**	4	M8x1	15	21	4	-/13	1	6	12	K0344.90
K0635.13105	**K0635.14105**	5	M10x1	23	24	5	-/17	1,3	5	12	K0344.91
K0635.13206	**K0635.14206**	6	M12x1,5	23	28	6	-/19	1,8	6	14	K0344.92
K0635.13308	**K0635.14308**	8	M16x1,5	28	36	8	-/24	2,3	15	35	K0344.93
K0635.13410	**K0635.14410**	10	M20x1,5	28	40	10	-/30	2,8	15	34	K0344.94

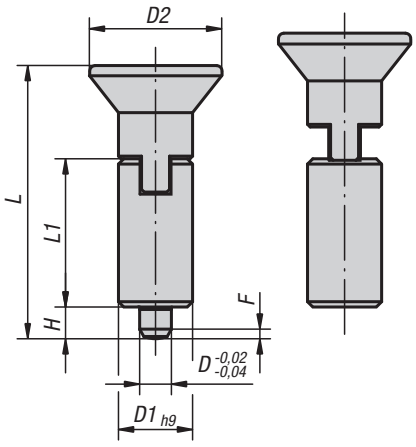
Indexing plungers

without collar





Form L
without locking slot



Form M
with locking slot

Material:
Steel version:
Indexing pin hardened:
Sleeve 1.0403 weldable.
Indexing pin grade 5.8

Stainless steel version:
Indexing pin hardened
Sleeve1.4301 weldable.
Indexing pin 1.4034.

Indexing pin not hardened:
Sleeve 1.4301 weldable.
Indexing pin 1.4305.

Mushroom knob black grey thermoplastic.

Version:
Steel version:
Indexing pin hardened, ground, black oxidised.

Stainless steel version:
Indexing pin hardened, ground and bright.
Indexing pin not hardened, ground and bright.

Sample order:
K0346.01206

Note:
Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been manually disengaged.
Form M is recommended for applications in where the indexing plungers should remain disengaged over extended periods and the pin prevented from springing back.
To weld the indexing plungers we recommend inert gas-shielded welding with TIG welding equipment.

On request:
Special versions.

Indexing plungers

without collar

KIPP Indexing plungers without collar, steel, indexing pin hardened

Order No. Form L	Order No. Form M	D	D1	D2	L	L1	H	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0346.1004	K0346.2004	4	10	18	38,5	21	4	1	6	12
K0346.1105	K0346.2105	5	12	21	43,5	24	5	1,3	5	12
K0346.1206	K0346.2206	6	14	25	51,7	28	6	1,8	6	14
K0346.1308	K0346.2308	8	18	33	68	36	8	2,3	15	35
K0346.1410	K0346.2410	10	22	33	74	40	10	2,8	15	34

KIPP Indexing plungers without collar, stainless steel, indexing pin hardened

Order No. Form L	Order No. Form M	D	D1	D2	L	L1	H	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0346.01004	K0346.02004	4	10	18	38,5	21	4	1	6	12
K0346.01105	K0346.02105	5	12	21	43,5	24	5	1,3	5	12
K0346.01206	K0346.02206	6	14	25	51,7	28	6	1,8	6	14
K0346.01308	K0346.02308	8	18	33	68	36	8	2,3	15	35
K0346.01410	K0346.02410	10	22	33	74	40	10	2,8	15	34

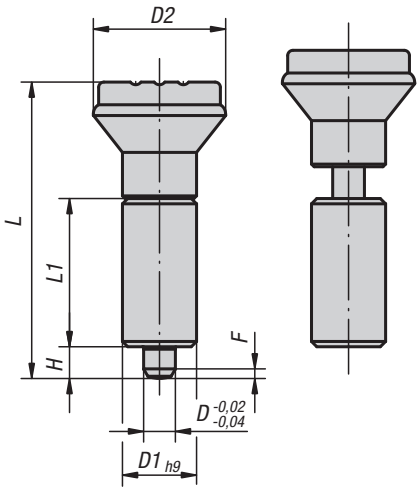
KIPP Indexing plungers without collar, stainless steel, indexing pin not hardened

Order No. Form L	Order No. Form M	D	D1	D2	L	L1	H	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0346.11004	K0346.12004	4	10	18	38,5	21	4	1	6	12
K0346.11105	K0346.12105	5	12	21	43,5	24	5	1,3	5	12
K0346.11206	K0346.12206	6	14	25	51,7	28	6	1,8	6	14
K0346.11308	K0346.12308	8	18	33	68	36	8	2,3	15	35
K0346.11410	K0346.12410	10	22	33	74	40	10	2,8	15	34

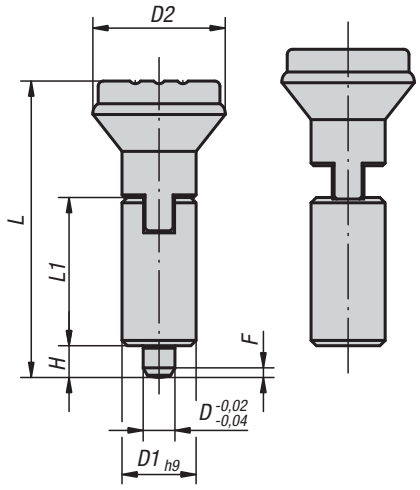
Indexing plungers

without collar

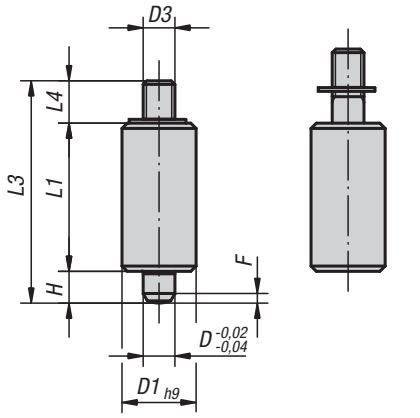




Form L
without locking slot



Form M
with locking slot



Form N
with threaded pin

Material:
Steel version:
Indexing pin hardened:
Sleeve1.0403 weldable.
Indexing pin grade 5.8.

Stainless steel version:
Indexing pin hardened:
Sleeve 1.4301 weldable.
Indexing pin 1.4034.

Indexing pin not hardened:
Sleeve 1.4301 weldable.
Indexing pin 1.4305.

Mushroom knob black grey thermoplastic.

Version:
Steel version:
Indexing pin hardened, ground, black oxidised.

Stainless steel version:
Indexing pin hardened, ground and bright.
Indexing pin not hardened, ground and bright.

Sample order:
K0347.02206

Note:
Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been manually disengaged.
Form M is recommended for applications where the indexing plungers should remain disengaged over an extended period and the pin prevented from springing back.
Special grips can be fitted on the projecting threaded pin of Form N. This pin is also suitable for actuating the indexing plunger e.g. automatically (program-controlled) with the aid of a pneumatic cylinder or remote controlled with bowden cables.
To weld the indexing plungers we recommend inert gas shielded welding with TIG welding equipment.

On request:
Special versions.

Indexing plungers

without collar

KIPP Indexing plungers without collar, steel, indexing pin hardened

Order No. Form L	Order No. Form M	Order No. Form N	D	D1	D2	D3	L	L1	L3	L4	H	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0347.1105	**K0347.2105**	**K0347.3105**	5	12	21/21/-	-/-/M4	47/47/-	24	-/-/37	-/-/8	5	1,3	5	12
K0347.1206	**K0347.2206**	**K0347.3206**	6	14	25/25/-	-/-/M6	56/56/-	28	-/-/43	-/-/9	6	1,8	6	14
K0347.1308	**K0347.2308**	**K0347.3308**	8	18	33/33/-	-/-/M8	74/74/-	36	-/-/56	-/-/12	8	2,3	15	35
K0347.1410	**K0347.2410**	**K0347.3410**	10	22	33/33/-	-/-/M8	80/80/-	40	-/-/62	-/-/12	10	2,8	15	34

KIPP Indexing plungers without collar, stainless steel, indexing pin hardened

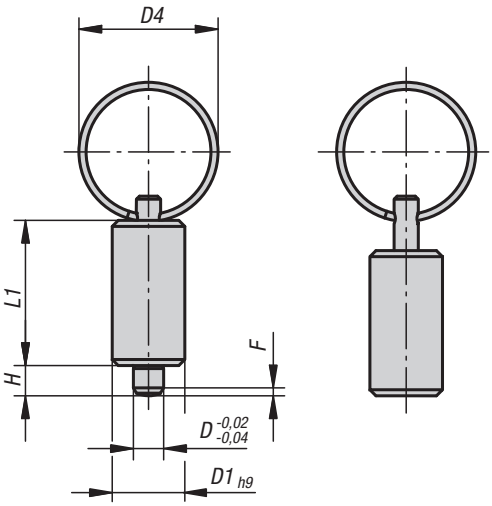
Order No. Form L	Order No. Form M	Order No. Form N	D	D1	D2	D3	L	L1	L3	L4	H	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0347.01105	**K0347.02105**	**K0347.03105**	5	12	21/21/-	-/-/M4	47/47/-	24	-/-/37	-/-/8	5	1,3	5	12
K0347.01206	**K0347.02206**	**K0347.03206**	6	14	25/25/-	-/-/M6	56/56/-	28	-/-/43	-/-/9	6	1,8	6	14
K0347.01308	**K0347.02308**	**K0347.03308**	8	18	33/33/-	-/-/M8	74/74/-	36	-/-/56	-/-/12	8	2,3	15	35
K0347.01410	**K0347.02410**	**K0347.03410**	10	22	33/33/-	-/-/M8	80/80/-	40	-/-/62	-/-/12	10	2,8	15	34

KIPP Indexing plungers without collar, stainless steel, indexing pin not hardened

Order No. Form L	Order No. Form M	Order No. Form N	D	D1	D2	D3	L	L1	L3	L4	H	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0347.11105	**K0347.12105**	**K0347.13105**	5	12	21/21/-	-/-/M4	47/47/-	24	-/-/37	-/-/8	5	1,3	5	12
K0347.11206	**K0347.12206**	**K0347.13206**	6	14	25/25/-	-/-/M6	56/56/-	28	-/-/43	-/-/9	6	1,8	6	14
K0347.11308	**K0347.12308**	**K0347.13308**	8	18	33/33/-	-/-/M8	74/74/-	36	-/-/56	-/-/12	8	2,3	15	35
K0347.11410	**K0347.12410**	**K0347.13410**	10	22	33/33/-	-/-/M8	80/80/-	40	-/-/62	-/-/12	10	2,8	15	34

Indexing plungers

without collar



Form V
with key ring



Material:
Steel version:
Indexing pin hardened.
Sleeve1.0403 weldable.
Indexing pin grade 5.8.

Stainless steel version:
Indexing pin hardened:
Sleeve 1.4301 weldable.
Indexing pin 1.4034.

Indexing pin not hardened:
Sleeve 1.4301 weldable.
Indexing pin 1.4305.

Key ring 1.4310, bright.

Version:
Steel version:
Indexing pin hardened, ground, black oxidised.

Stainless steel version:
Indexing pin hardened, ground and bright.
Indexing pin not hardened, ground and bright.

Sample order:
K0636.4206

Note:
Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been disengaged.
The key ring is also suitable for actuating the indexing plungers e.g. automatically (program-controlled) with the aid of a pneumatic cylinder or remote controlled with bowden cables.
To weld the indexing plungers we recommend inert gas shielded welding with TIG welding equipment.

On request:
Special versions.

KIPP Indexing plungers without collar, steel, indexing pin hardened

Order No. Form V	D	D1	D4	L1	H	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0636.4004	4	10	15	21	4	1	6	12
K0636.4105	5	12	23	24	5	1,3	5	12
K0636.4206	6	14	23	28	6	1,8	6	14
K0636.4308	8	18	28	36	8	2,3	15	35
K0636.4410	10	22	28	40	10	2,8	15	34

KIPP Indexing plungers without collar, stainless steel, indexing pin hardened

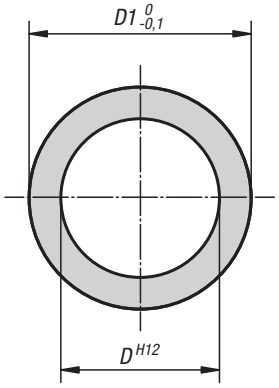
Order No. Form V	D	D1	D4	L1	H	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0636.04004	4	10	15	21	4	1	6	12
K0636.04105	5	12	23	24	5	1,3	5	12
K0636.04206	6	14	23	28	6	1,8	6	14
K0636.04308	8	18	28	36	8	2,3	15	35
K0636.04410	10	22	28	40	10	2,8	15	34

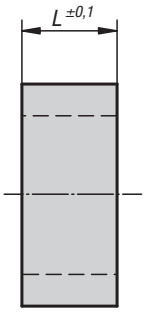
KIPP Indexing plungers without collar, stainless steel, indexing pin not hardened

Order No. Form V	D	D1	D4	L1	H	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0636.14004	4	10	15	21	4	1	6	12
K0636.14105	5	12	23	24	5	1,3	5	12
K0636.14206	6	14	23	28	6	1,8	6	14
K0636.14308	8	18	28	36	8	2,3	15	35
K0636.14410	10	22	28	40	10	2,8	15	34

Spacer rings





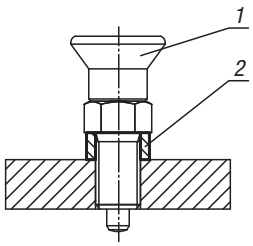


Material:
Stainless steel

Version:
Bright.

Sample order:
K0665.90811021

Note:
Spacer rings are used to adjust the indexing plunger thread length to suit the application wall thickness.



Drawing reference:
1) Indexing plunger
2) Spacer ring

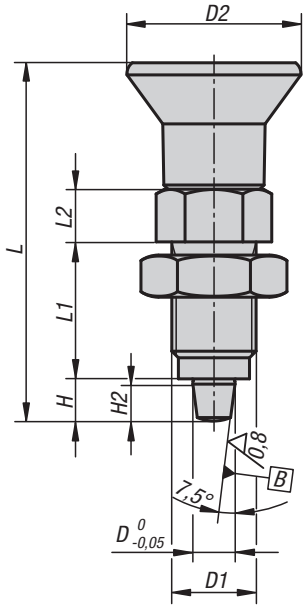
KIPP Spacer rings

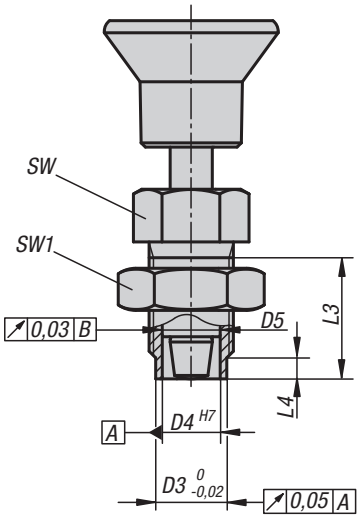
Order No.	D	D1	L
K0665.90811021	8	11	2
K0665.90811031	8	11	3
K0665.90811041	8	11	4
K0665.90811061	8	11	6
K0665.90811081	8	11	8
K0665.91014021	10	14	2
K0665.91014031	10	14	3
K0665.91014041	10	14	4
K0665.91014061	10	14	6
K0665.91014081	10	14	8
K0665.91215021	12	15	2
K0665.91215041	12	15	4
K0665.91215051	12	15	5
K0665.91215061	12	15	6
K0665.91215081	12	15	8
K0665.91217021	12	17	2
K0665.91217041	12	17	4
K0665.91217051	12	17	5
K0665.91217061	12	17	6
K0665.91217081	12	17	8
K0665.91621041	16	21	4
K0665.91621051	16	21	5
K0665.91621061	16	21	6
K0665.91621081	16	21	8
K0665.91621101	16	21	10

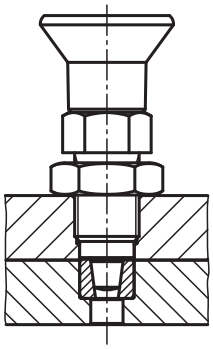
Indexing plungers - Premium

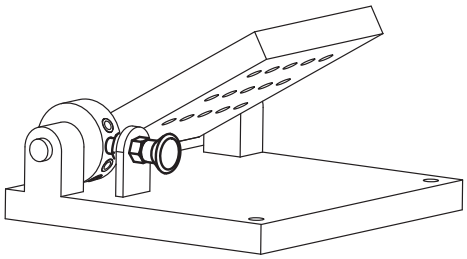
with tapered pin











Material:
Steel version:
indexing pin hardened:
grade 5.8

Stainless steel version:
indexing pin hardened
threaded sleeve 1.4305
indexing pin 1.4034

Mushroom knob black grey thermoplastic.

Version:
Steel version:
indexing pin hardened, ground and black oxidised.

Stainless steel version:
indexing pin hardened, ground and bright.

Sample order:
K0736.52206

Note:
Premium indexing plungers are characterized by more stringent manufacturing requirements for the indexing plungers and the threaded sleeve. In addition, a centring locator that can be used to increase the positioning accuracy is provided on the threaded sleeve. These indexing plungers are used when it is necessary to prevent shifting of the locked position by transverse forces and greater positioning accuracy is required. A new locking position can only be set after the pin has been manually disengaged. When high lateral forces are to be expected, the centring locator should be used.

Assembly:
When using the threaded sleeve centring, it is recommended the receiving reamed hole be machined before tapping.
The conical contact surface is aligned by the threaded sleeve and locking nut.

Accessories:
Matching tapered bush K0736.

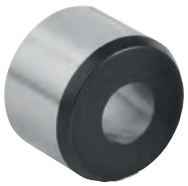
KIPP Premium indexing plungers with tapered pin, steel, indexing pin hardened

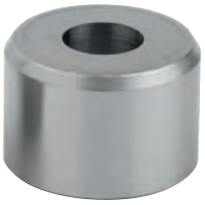
Order No.	Component material	D	D1	D2	D3	D4	D5	L	L1	L2	L3	L4	H	H2	SW	SW1	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0736.52105	Steel	5	M10x1	21	8	6	6 -0,01/-0,02	43,5	17	7	15	3	5	4	13	17	5	12
K0736.52206	Steel	6	M12x1,5	25	10	8,5	8,5 -0,01/-0,03	51,7	20	8	17	3	6	5	14	19	6	14
K0736.52308	Steel	8	M16x1,5	33	13,5	11	11 -0,01/-0,03	68	26	10	23	4	8	7	19	24	15	35
K0736.52410	Steel	10	M20x1,5	33	17	11	11 -0,01/-0,03	74	28	12	25	4	10	9	22	30	15	34

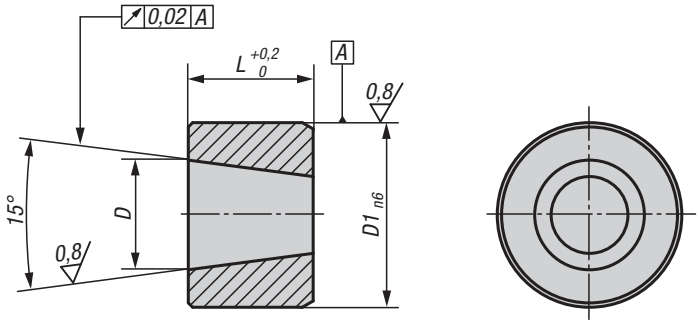
KIPP Premium indexing plungers with tapered pin, stainless steel, indexing pin hardened

Order No.	Component material	D	D1	D2	D3	D4	D5	L	L1	L2	L3	L4	H	H2	SW	SW1	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0736.502105	Stainless steel	5	M10x1	21	8	6	6 -0,01/-0,02	43,5	17	7	15	3	5	4	13	17	5	12
K0736.502206	Stainless steel	6	M12x1,5	25	10	8,5	8,5 -0,01/-0,03	51,7	20	8	17	3	6	5	14	19	6	14
K0736.502308	Stainless steel	8	M16x1,5	33	13,5	11	11 -0,01/-0,03	68	26	10	23	4	8	7	19	24	15	35
K0736.502410	Stainless steel	10	M20x1,5	33	17	11	11 -0,01/-0,03	74	28	12	25	4	10	9	22	30	15	34

Bushes tapered







Material:
Steel or stainless steel 1.4034.

Version:
Steel version:
black oxidised, hardened and ground.
Stainless steel version:
bright, hardened and ground.

Sample order:
K0736.9106

Note:
Matching bushes for premium indexing plungers with tapered pin K0736.

Assembly:
To increase the coaxial alignment accuracy, the holes for the bush and the premium indexing plunger can be machined simultaniously.

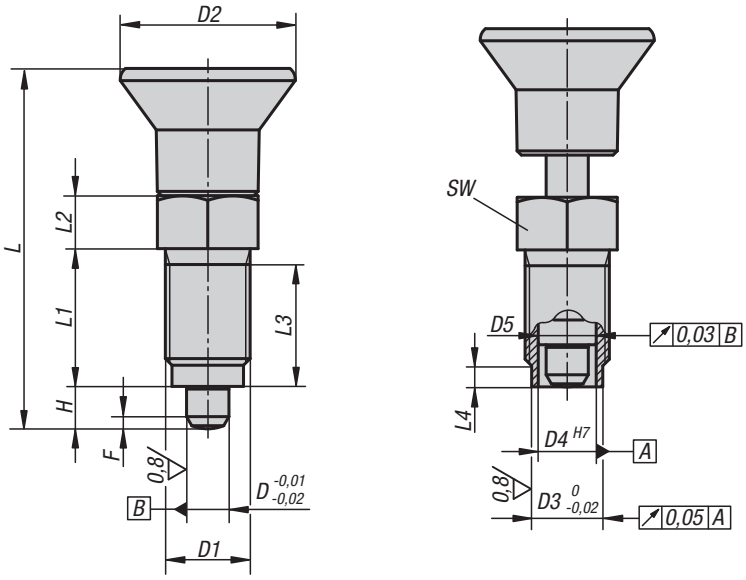
KIPP Tapered bushes

Order No.	Main material	D	D1	L
K0736.9105	Steel	5	8	6
K0736.9106	Steel	6	10	7
K0736.9108	Steel	8	13,5	9,5
K0736.9110	Steel	10	17	11,5
K0736.91005	Stainless steel	5	8	6
K0736.91006	Stainless steel	6	10	7
K0736.91008	Stainless steel	8	13,5	9,5
K0736.91010	Stainless steel	10	17	11,5

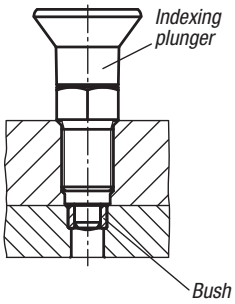
Indexing plungers - Premium

with cylindrical pin

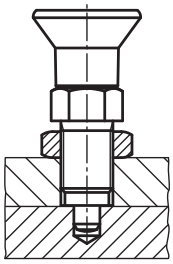




Fixation with bush:



Fixation without bush:



Material:
Steel version:
indexing pin hardened:
grade 5.8

Stainless steel version:
indexing pin hardened
threaded sleeve 1.4305
indexing pin 1.4034

Mushroom knob black grey thermoplastic.

Version:
Steel version:
indexing pin hardened, ground and black oxidised.

Stainless steel version:
indexing pin hardened, ground and bright.

Sample order:
K0736.41206

Note:
Premium indexing plungers are characterized by more stringent manufacturing requirements for the indexing plungers and threaded sleeve. In addition, a centring locator that can be used to increase the positioning accuracy is provided on the threaded sleeve. These indexing plungers are used when it is necessary to prevent shifting of the locked position by transverse forces and greater positioning accuracy is required. A new locking position can only be set after the pin has been manually disengaged. When high lateral forces are to be expected, the centring locator should be used.

Assembly:
When using the threaded sleeve centring, it is recommended the receiving reamed hole be machined before tapping.

On request:
Special versions and spacer rings.

Accessories:
Matching cylindrical bush K0736.
Locknut K0700….

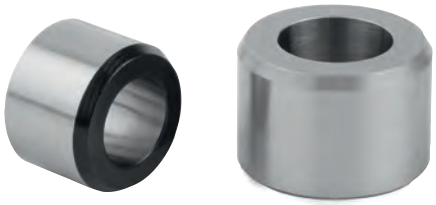
KIPP Premium indexing plungers with cylindrical pin, steel, indexing pin hardened

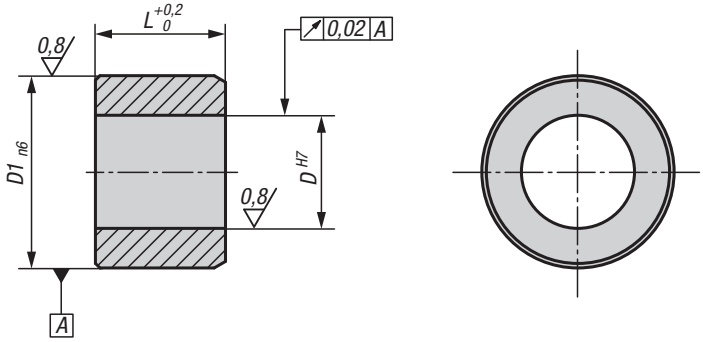
Order No.	Component material	D	D1	D2	D3	D4	D5	L	L1	L2	L3	L4	H	SW	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0736.41105	Steel	5	M10x1	21	8	6	6 -0,01/-0,02	43,5	17	7	15	3	5	13	1,3	5	12
K0736.41206	Steel	6	M12x1,5	25	10	8,5	8,5 -0,01/-0,03	51,7	20	8	17	3	6	14	1,8	6	14
K0736.41308	Steel	8	M16x1,5	33	13,5	11	11 -0,01/-0,03	68	26	10	23	4	8	19	2,3	15	35
K0736.41410	Steel	10	M20x1,5	33	17	11	11 -0,01/-0,03	74	28	12	25	4	10	22	2,8	15	34

KIPP Premium indexing plungers with cylindrical pin, stainless steel, indexing pin hardened

Order No.	Component material	D	D1	D2	D3	D4	D5	L	L1	L2	L3	L4	H	SW	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0736.401105	Stainless steel	5	M10x1	21	8	6	6 -0,01/-0,02	43,5	17	7	15	3	5	13	1,3	5	12
K0736.401206	Stainless steel	6	M12x1,5	25	10	8,5	8,5 -0,01/-0,03	51,7	20	8	17	3	6	14	1,8	6	14
K0736.401308	Stainless steel	8	M16x1,5	33	13,5	11	11 -0,01/-0,03	68	26	10	23	4	8	19	2,3	15	35
K0736.401410	Stainless steel	10	M20x1,5	33	17	11	11 -0,01/-0,03	74	28	12	25	4	10	22	2,8	15	34

Bushes cylindrical





Material:
Steel or stainless steel 1.4034.

Version:
Steel version:
black oxidised, hardened and ground.
Stainless steel version:
bright, hardened and ground.

Sample order:
K0736.9005

Note:
Matching bushes for premium indexing plungers with cylindrical pin K0736.

Assembly:
To increase the coaxial alignment accuracy, the hole for the bush and the premium indexing plunger can be machined simultaniously.

KIPP Cylindrical bushes

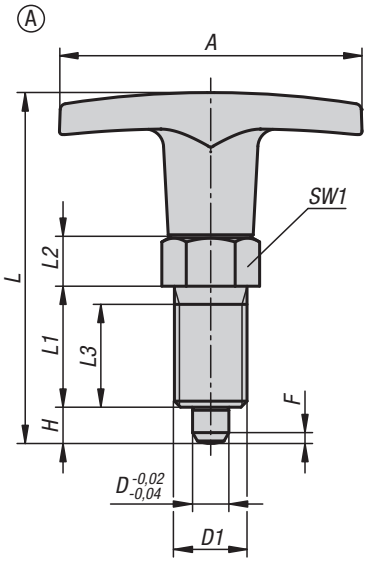
Order No.	Main material	D	D1	L
K0736.9005	Steel	5	8	6
K0736.9006	Steel	6	10	7
K0736.9008	Steel	8	13,5	9,5
K0736.9010	Steel	10	17	11,5
K0736.90005	Stainless steel	5	8	6
K0736.90006	Stainless steel	6	10	7
K0736.90008	Stainless steel	8	13,5	9,5
K0736.90010	Stainless steel	10	17	11,5

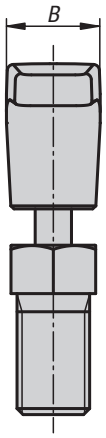
Indexing plungers

with T-grip

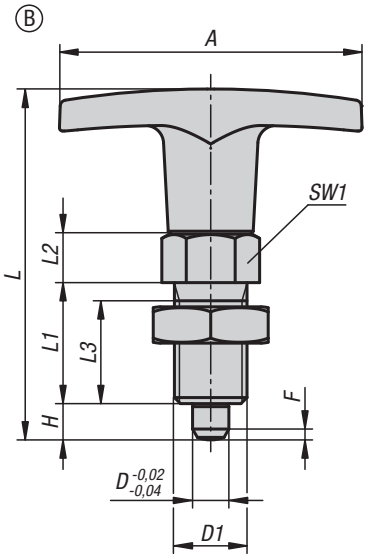


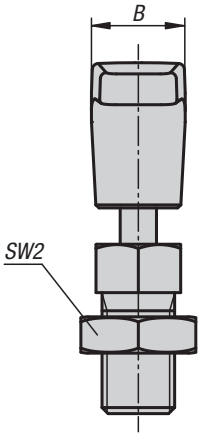
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Material:
Steel version:
Indexing pin hardened:
pin 1.0718
threaded sleeve 1.0718.

Stainless steel version:
Indexing pin hardened:
pin 1.4034
threaded sleeve 1.4305.

T-grip thermoplastic, black grey or traffic red RAL 3020.

Version:
Steel version:
indexing pin hardened, ground and black oxidised.
Threaded sleeve black oxidised

Stainless steel version:
indexing pin hardened, ground and bright.
Threaded sleeve bright.

Sample order:
K1124.5308

Note:
Indexing plungers are used to prevent any change in locking position due to lateral forces. A new locking position can only be set after the pin has been manually disengaged. The ergonomic T-grip allows for easy handling and low effort.

On request:
Special versions.

Accessories:
Spacer rings K0665

Drawing reference:
Form A: without locknut
Form B: with locknut

KIPP Indexing plungers, steel, indexing pin hardened

Order No. Form A	Order No. Form B	Component colour	A	B	D	D1	L	L1	L2	L3	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1124.5206	**K1124.6206**	black grey RAL 7021	50	15,5	6	M12x1,5	58	20	8	17	6	14	-/19	1,8	6	14
K1124.5308	**K1124.6308**	black grey RAL 7021	60	18	8	M16x1,5	77	26	10	23	8	19	-/24	2,3	15	35
K1124.5410	**K1124.6410**	black grey RAL 7021	72	19	10	M20x1,5	84	28	12	25	10	22	-/30	2,8	15	34
K1124.520684	**K1124.620684**	traffic red RAL 3020	50	15,5	6	M12x1,5	58	20	8	17	6	14	-/19	1,8	6	14
K1124.530884	**K1124.630884**	traffic red RAL 3020	60	18	8	M16x1,5	77	26	10	23	8	19	-/24	2,3	15	35
K1124.541084	**K1124.641084**	traffic red RAL 3020	72	19	10	M20x1,5	84	28	12	25	10	22	-/30	2,8	15	34

KIPP Indexing plungers, stainless steel, indexing pin hardened

Order No. Form A	Order No. Form B	Component colour	A	B	D	D1	L	L1	L2	L3	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1124.05206	**K1124.06206**	black grey RAL 7021	50	15,5	6	M12x1,5	58	20	8	17	6	14	-/19	1,8	6	14
K1124.05308	**K1124.06308**	black grey RAL 7021	60	18	8	M16x1,5	77	26	10	23	8	19	-/24	2,3	15	35
K1124.05410	**K1124.06410**	black grey RAL 7021	72	19	10	M20x1,5	84	28	12	25	10	22	-/30	2,8	15	34
K1124.0520684	**K1124.0620684**	traffic red RAL 3020	50	15,5	6	M12x1,5	58	20	8	17	6	14	-/19	1,8	6	14
K1124.0530884	**K1124.0630884**	traffic red RAL 3020	60	18	8	M16x1,5	77	26	10	23	8	19	-/24	2,3	15	35
K1124.0541084	**K1124.0641084**	traffic red RAL 3020	72	19	10	M20x1,5	84	28	12	25	10	22	-/30	2,8	15	34

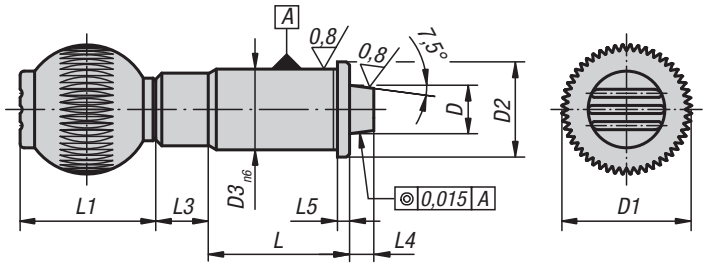
Notes

Indexing plungers - Precision

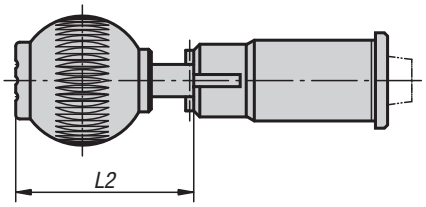
with tapered pin



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Material:
Steel.
Grip ball thermoplastic.

Version:
Hardened and ground.
Grip ball black grey.

Sample order:
K0359.020

Note:
The indexing plungers with bushes are a perfect combination for rapid positioning and fixing. The precise design of both the indexing plunger and the bush guarantees high repeating accuracy when assembling two elements.

Technical information see assembly and installation instructions.

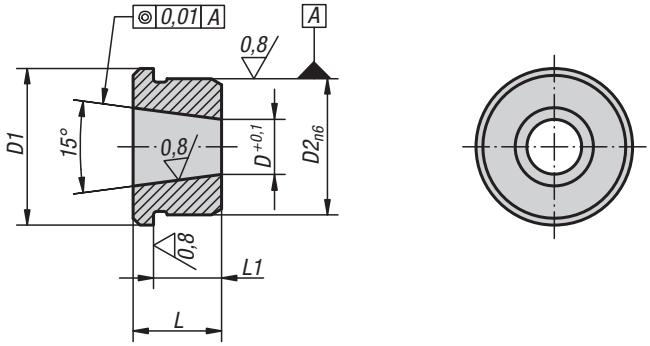
Drawing reference:
Form A: standard
Form B: lockable

KIPP Precision indexing plungers with tapered pin

Order No. Form A standard	Order No. Form B lockable	D	D1	D2	D3	L	L1	L2	L3	L4 min.	L5	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Internal thread grip ball
K0359.010	**K0359.110**	10	25	19	16	31	25	-/32,5	13	6	2,5	19	29	M6
K0359.012	**K0359.112**	12	32	23	20	35	33	-/40,5	13	6	3	22	35	M8
K0359.016	**K0359.116**	16	40	28	25	42	41,5	-/49	13	6	3	30	50	M10
K0359.020	**K0359.120**	20	40	33	30	50	41,5	-/49	13	6	3	46	63	M10
K0359.025	**K0359.125**	25	50	42	38	60	51	-/58,5	13	6	3	39	73	M10

Bushes tapered





Material:
Steel.

Version:
Hardened and ground.

Sample order:
K0360.20

Note:
Bushes for precision indexing plungers K0359.

KIPP Tapered bushes

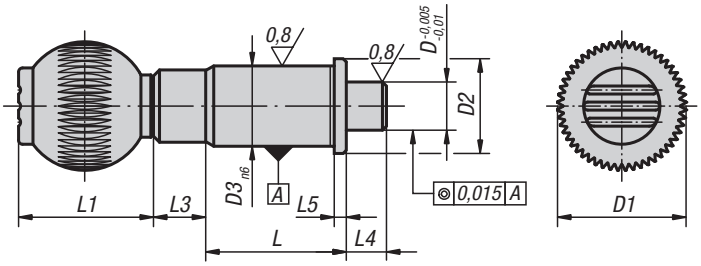
Order No.	D	D1	D2	L	L1
K0360.10	7,1	19	16	11	8,5
K0360.12	8,28	23	20	13	10
K0360.16	11,52	28	25	17	14
K0360.20	15,49	33	30	16	13
K0360.25	19,7	42	38	19	16

Indexing plungers - Precision

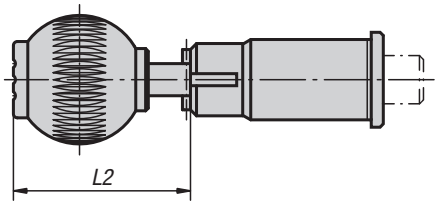
with cylindrical pin



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Material:
Steel.
Grip ball thermoplastic.

Version:
Hardened and ground.
Grip ball black grey.

Sample order:
K0361.020

Note:
The indexing plungers with bushes are a perfect combination for rapid positioning and fixing. The precise design of both the indexing plungers and the bush guarantees high repeating accuracy when assembling two elements.

Technical Information see assembly and installation instructions.

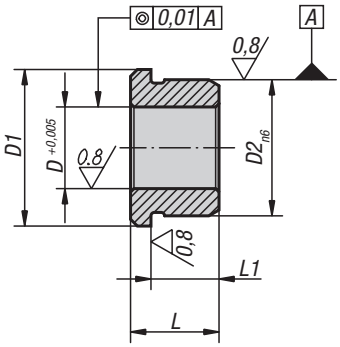
Drawing reference:
Form A: standard
Form B: lockable

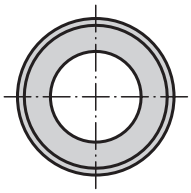
KIPP Precision indexing plungers with cylindrical pin

Order No. Form A standard	Order No. Form B lockable	D	D1	D2	D3	L	L1	L2	L3	L4 min.	L5	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N	Internal thread grip ball
K0361.010	**K0361.110**	10	25	19	16	31	25	-/36,5	13	10	2,5	15	30	M6
K0361.012	**K0361.112**	12	32	23	20	35	33	-/44,5	13	10	3	15	35	M8
K0361.016	**K0361.116**	16	40	28	25	42	41,5	-/53	13	10	3	20	50	M10
K0361.020	**K0361.120**	20	40	33	30	50	41,5	-/53	13	10	3	36	63	M10
K0361.025	**K0361.125**	25	50	42	38	60	51	-/62,5	13	10	3	20	73	M10

Bushes cylindrical





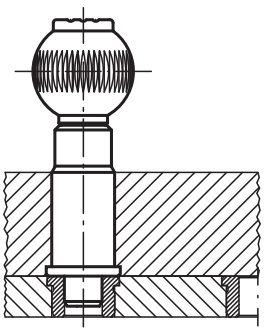


Material:
Steel.

Version:
Hardened and ground.

Sample order:
K0362.20

Note:
Bushes for precision indexing plungers K0361.

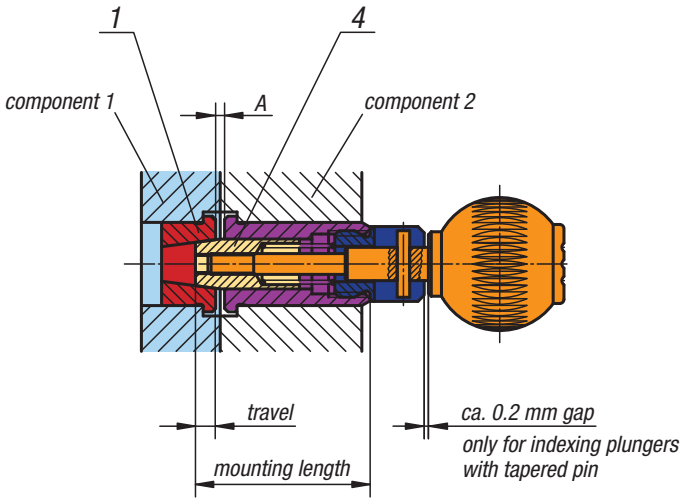


KIPP Cylindrical bushes

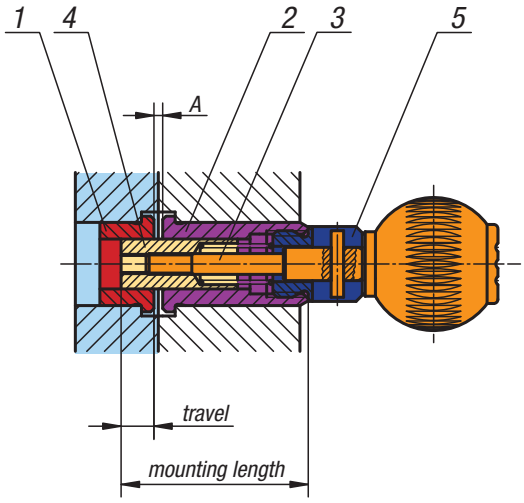
Order No.	D	D1	D2	L	L1
K0362.10	10	19	16	11	8,5
K0362.12	12	23	20	13	10
K0362.16	16	28	25	17	14
K0362.20	20	33	30	16	13
K0362.25	25	42	38	19	16

Assembly and installation instructions for precision indexing plungers

Precision indexing plungers with tapered indexing pin



Precision indexing plungers with cylindrical indexing pin



Assembly instructions:

1. Fit tapered or cylindrical bush (Pos. 1) into component 1.
2. Mount sleeve (Pos. 2) into component 2.
3. Determine mounting length (actual dimension). Mounting length = A + travel + length of Pos. 2. Models with tapered pin should have a 0.2 mm gap.
4. Glue screw (Pos. 3) and centring pin (Pos. 4) together grease-free with anaerobic adhesive. We recommend Loctite 638.
5. Screw centring pin with nut (Pos. 4) and handle into the mounted sleeve (Pos. 2). If necessary glue together grease-free with anaerobic adhesive.
6. Check whether the product is operational. Adhere to the index travel length given in the catalogue.

Note:

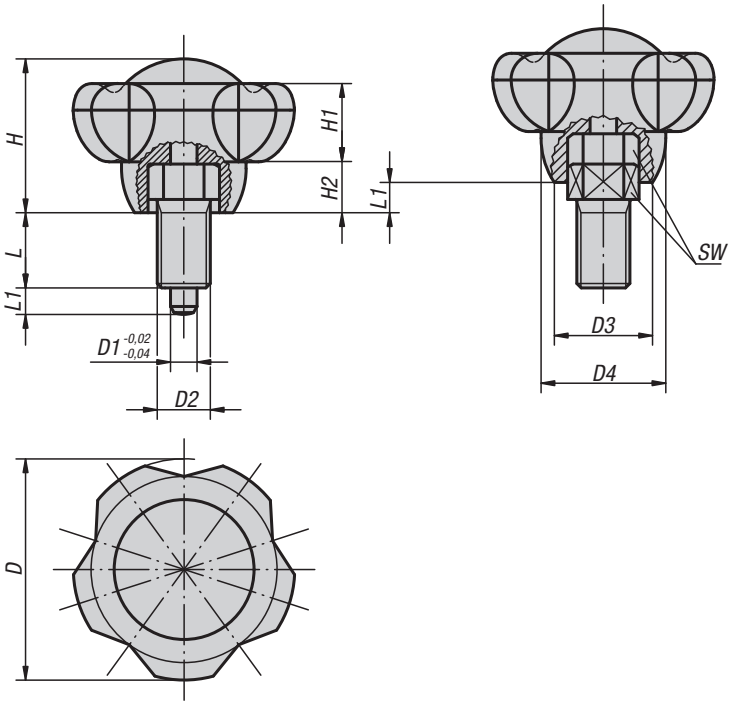
The precision indexing plunger is only ready for operation after the stated adhesive hardening time. When gluing the components, ensure that no adhesive enters into contact with movable parts.



Indexing plungers

with five lobe grip





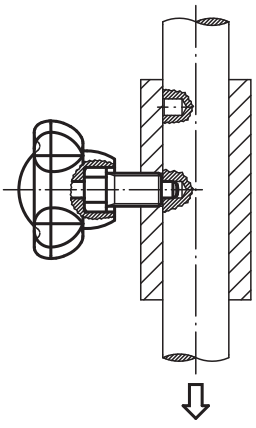
These NOVO grip indexing plungers enable indexing and clamping with a single component. Especially useful for telescopic adjustments which can be positioned and clamped quickly, precisely and simply.

Material:
Thermoplastic.
Indexing pin and screw steel 5.8.

Version:
Grip black grey.
Indexing pin and screw black oxidised.
Indexing pin hardened and ground.

Sample order:
K0245.11056 (cap colour traffic red)

Note:
Δ Add the desired cap colour here. No colour code is required with black grey grip caps.

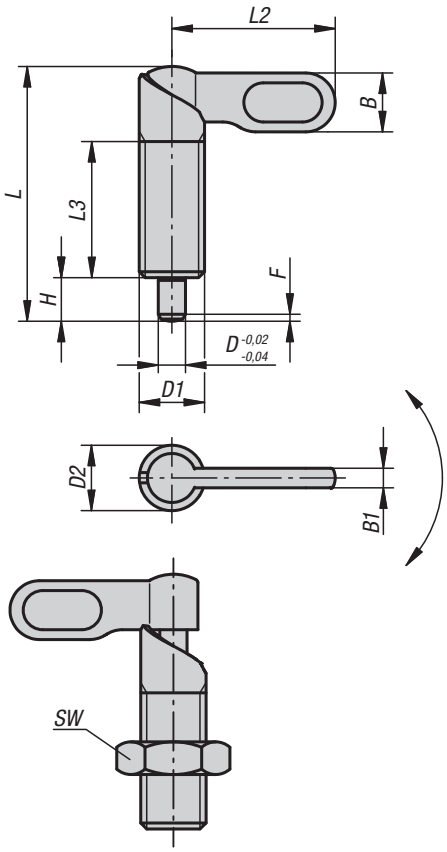


black grey	light grey Δ = 5	traffic red Δ = 6	rape yellow Δ = 7
 RAL 7021	 RAL 7035	 RAL 3020	 RAL 1021

KIPP Indexing plungers with five lobe grip

Order No.	Size	D	D1	D2	D3	D4	H	H1	H2	L	L1	SW
K0245.1105Δ	1	50	5	M10x1	22,2	28,2	34,8	17,8	11,5	13	5	13
K0245.1206Δ	2	50	6	M12x1,5	22,2	28,2	34,8	17,8	11,5	17	6	14
K0245.13085Δ	3	63	8	M16x1,5	28	35,5	44	22,5	14,5	22	8	19
K0245.1410Δ	4	63	10	M20x1,5	28	35,5	44	22,5	14,5	24	10	22

Cam-action indexing plungers



Form A
grip uncoated
without nut

Form C
grip powder-coated
without nut

Form B
grip uncoated
with nut

Form D
grip powder-coated
with nut



Material:
Steel grade 5.8.

Version:
Black oxidised.
Pin hardened and ground.

Sample order:
K0348.040616

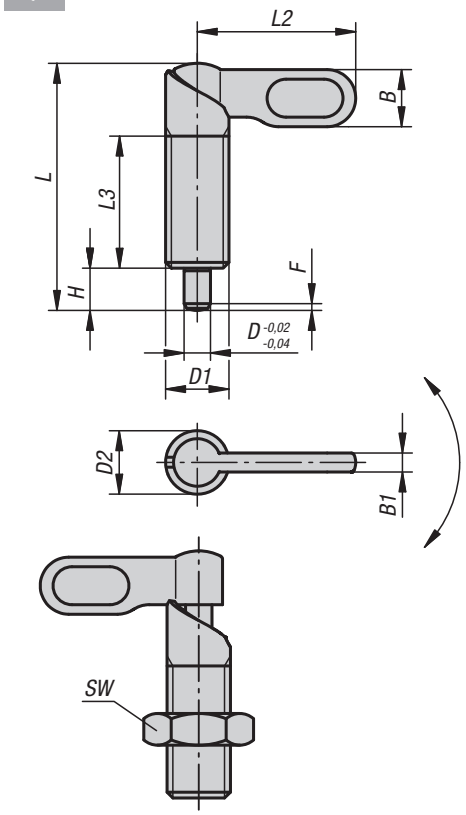
Note:
Cam-action indexing plungers are used when the indexing pin should not project all the time. Turning the handle through 180° retracts the pin.
A notch ensures that the handle remains in this position.

KIPP Cam-action indexing plungers

Order No. Form A	Order No. Form C	Order No. Form B	Order No. Form D	D	D1	D2	L	L2	L3	B	B1	H	SW	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0348.040410	K0348.060410	K0348.050410	K0348.070410	4	M10	10	38	25	20	9	3	6	-/-/17/17	1	8	14
K0348.040510	K0348.060510	K0348.050510	K0348.070510	5	M10	10	38	25	20	9	3	6	-/-/17/17	1,3	8	14
K0348.040610	K0348.060610	K0348.050610	K0348.070610	6	M10	10	38	25	20	9	3	6	-/-/17/17	1,8	8	14
K0348.0404101	K0348.0604101	K0348.0504101	K0348.0704101	4	M10x1	10	38	25	20	9	3	6	-/-/17/17	1	8	14
K0348.0405101	K0348.0605101	K0348.0505101	K0348.0705101	5	M10x1	10	38	25	20	9	3	6	-/-/17/17	1,3	8	14
K0348.0406101	K0348.0606101	K0348.0506101	K0348.0706101	6	M10x1	10	38	25	20	9	3	6	-/-/17/17	1,8	8	14
K0348.040512	K0348.060512	K0348.050512	K0348.070512	5	M12	12	46,8	30	25	10,8	3,6	8	-/-/19/19	1,3	8	15
K0348.040612	K0348.060612	K0348.050612	K0348.070612	6	M12	12	46,8	30	25	10,8	3,6	8	-/-/19/19	1,8	8	15
K0348.040812	K0348.060812	K0348.050812	K0348.070812	8	M12	12	46,8	30	25	10,8	3,6	8	-/-/19/19	2,3	8	15
K0348.0405121	K0348.0605121	K0348.0505121	K0348.0705121	5	M12x1,5	12	46,8	30	25	10,8	3,6	8	-/-/19/19	1,3	8	15
K0348.0406121	K0348.0606121	K0348.0506121	K0348.0706121	6	M12x1,5	12	46,8	30	25	10,8	3,6	8	-/-/19/19	1,8	8	15
K0348.0408121	K0348.0608121	K0348.0508121	K0348.0708121	8	M12x1,5	12	46,8	30	25	10,8	3,6	8	-/-/19/19	2,3	8	15
K0348.040616	K0348.060616	K0348.050616	K0348.070616	6	M16	16	60,4	40	32	14,4	4,8	10	-/-/24/24	1,8	15	35
K0348.040816	K0348.060816	K0348.050816	K0348.070816	8	M16	16	60,4	40	32	14,4	4,8	10	-/-/24/24	2,3	15	35
K0348.041016	K0348.061016	K0348.051016	K0348.071016	10	M16	16	60,4	40	32	14,4	4,8	10	-/-/24/24	2,8	15	35
K0348.0406161	K0348.0606161	K0348.0506161	K0348.0706161	6	M16x1,5	16	60,4	40	32	14,4	4,8	10	-/-/24/24	1,8	15	35
K0348.0408161	K0348.0608161	K0348.0508161	K0348.0708161	8	M16x1,5	16	60,4	40	32	14,4	4,8	10	-/-/24/24	2,3	15	35
K0348.0410161	K0348.0610161	K0348.0510161	K0348.0710161	10	M16x1,5	16	60,4	40	32	14,4	4,8	10	-/-/24/24	2,8	15	35
K0348.040820	K0348.060820	K0348.050820	K0348.070820	8	M20	20	70	50	35	18	6	12	-/-/30/30	2,3	20	60
K0348.041020	K0348.061020	K0348.051020	K0348.071020	10	M20	20	70	50	35	18	6	12	-/-/30/30	2,8	20	60
K0348.041220	K0348.061220	K0348.051220	K0348.071220	12	M20	20	70	50	35	18	6	12	-/-/30/30	3	20	60
K0348.0408201	K0348.0608201	K0348.0508201	K0348.0708201	8	M20x1,5	20	70	50	35	18	6	12	-/-/30/30	2,3	20	60
K0348.0410201	K0348.0610201	K0348.0510201	K0348.0710201	10	M20x1,5	20	70	50	35	18	6	12	-/-/30/30	2,8	20	60
K0348.0412201	K0348.0612201	K0348.0512201	K0348.0712201	12	M20x1,5	20	70	50	35	18	6	12	-/-/30/30	3	20	60

Cam-action indexing plungers

stainless steel



Form A
grip uncoated
without nut

Form B
grip uncoated
with nut



Material:
Stainless steel 1.4305.

Version:
Bright. Indexing pin ground, not hardened.

Sample order:
K0637.1040616

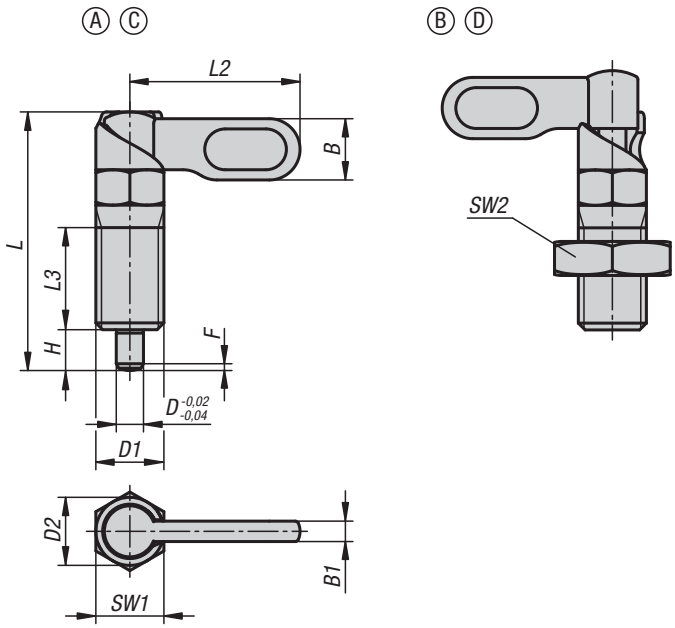
Note:
Cam-action indexing plungers are used when the indexing pin should not project all the time. Turning the handle through 180° retracts the pin.
A notch ensures that the handle remains in this position.

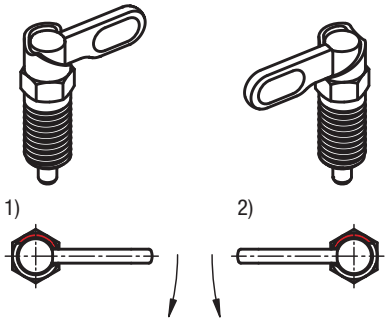
KIPP Cam-action indexing plungers stainless steel

Order No. Form A	Order No. Form B	D	D1	D2	L	L2	L3	B	B1	H	SW	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0637.1040410	K0637.1050410	4	M10	10	38	25	20	9	3	6	-/17	1	8	14
K0637.1040510	K0637.1050510	5	M10	10	38	25	20	9	3	6	-/17	1,3	8	14
K0637.1040610	K0637.1050610	6	M10	10	38	25	20	9	3	6	-/17	1,8	8	14
K0637.10404101	K0637.10504101	4	M10x1	10	38	25	20	9	3	6	-/17	1	8	14
K0637.10405101	K0637.10505101	5	M10x1	10	38	25	20	9	3	6	-/17	1,3	8	14
K0637.10406101	K0637.10506101	6	M10x1	10	38	25	20	9	3	6	-/17	1,8	8	14
K0637.1040512	K0637.1050512	5	M12	12	46,8	30	25	10,8	3,6	8	-/19	1,3	8	15
K0637.1040612	K0637.1050612	6	M12	12	46,8	30	25	10,8	3,6	8	-/19	1,8	8	15
K0637.1040812	K0637.1050812	8	M12	12	46,8	30	25	10,8	3,6	8	-/19	2,3	8	15
K0637.10405121	K0637.10505121	5	M12x1,5	12	46,8	30	25	10,8	3,6	8	-/19	1,3	8	15
K0637.10406121	K0637.10506121	6	M12x1,5	12	46,8	30	25	10,8	3,6	8	-/19	1,8	8	15
K0637.10408121	K0637.10508121	8	M12x1,5	12	46,8	30	25	10,8	3,6	8	-/19	2,3	8	15
K0637.1040616	K0637.1050616	6	M16	16	60,4	40	32	14,4	4,8	10	-/24	1,8	15	35
K0637.1040816	K0637.1050816	8	M16	16	60,4	40	32	14,4	4,8	10	-/24	2,3	15	35
K0637.1041016	K0637.1051016	10	M16	16	60,4	40	32	14,4	4,8	10	-/24	2,8	15	35
K0637.10406161	K0637.10506161	6	M16x1,5	16	60,4	40	32	14,4	4,8	10	-/24	1,8	15	35
K0637.10408161	K0637.10508161	8	M16x1,5	16	60,4	40	32	14,4	4,8	10	-/24	2,3	15	35
K0637.10410161	K0637.10510161	10	M16x1,5	16	60,4	40	32	14,4	4,8	10	-/24	2,8	15	35
K0637.1040820	K0637.1050820	8	M20	20	70	50	35	18	6	12	-/30	2,3	20	60
K0637.1041020	K0637.1051020	10	M20	20	70	50	35	18	6	12	-/30	2,8	20	60
K0637.1041220	K0637.1051220	12	M20	20	70	50	35	18	6	12	-/30	3	20	60
K0637.10408201	K0637.10508201	8	M20x1,5	20	70	50	35	18	6	12	-/30	2,3	20	60
K0637.10410201	K0637.10510201	10	M20x1,5	20	70	50	35	18	6	12	-/30	2,8	20	60
K0637.10412201	K0637.10512201	12	M20x1,5	20	70	50	35	18	6	12	-/30	3	20	60

Cam action indexing plunger

with stop







Material:
Steel grade 5.8.

Version:
Black oxidised.
Pin hardened and ground.

Sample order:
K1284.1040616

Note:
Cam-action indexing plungers are used when the indexing pin should not project all the time. Turning the handle through 180° retracts the pin.
A notch ensures that the handle remains in this position.
A stop prevents the handle being rotated through more than 180° ensuring that the pin remains retracted.
Selecting which side the stop is on defines the rotation direction of the plunger.

Drawing reference:
Form A: grip uncoated without nut
Form C: grip powder-coated without nut
Form B: grip uncoated with nut
Form D: grip powder-coated with nut

1) stop left
2) stop right

KIPP Cam action indexing plunger with stop

Order No. Form A	Order No. Form C	Type	D	D1	D2	L	L2	L3	B	B1	H	SW1	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1284.1040410	**K1284.1060410**	left	4	M10	10	38	25	15	9	3	6	10	1	8	14
K1284.1040510	**K1284.1060510**	left	5	M10	10	38	25	15	9	3	6	10	1,3	8	14
K1284.1040610	**K1284.1060610**	left	6	M10	10	38	25	15	9	3	6	10	1,8	8	14
K1284.1040512	**K1284.1060512**	left	5	M12	12	47,8	30	19	10,8	3,6	8	12	1,3	8	15
K1284.1040612	**K1284.1060612**	left	6	M12	12	47,8	30	19	10,8	3,6	8	12	1,8	8	15
K1284.1040812	**K1284.1060812**	left	8	M12	12	47,8	30	19	10,8	3,6	8	12	2,3	8	15
K1284.1040616	**K1284.1060616**	left	6	M16	16	60,4	40	26	14,4	4,8	10	16	1,8	15	35
K1284.1040816	**K1284.1060816**	left	8	M16	16	60,4	40	26	14,4	4,8	10	16	2,3	15	35
K1284.1041016	**K1284.1061016**	left	10	M16	16	60,4	40	26	14,4	4,8	10	16	2,8	15	35
K1284.10408201	**K1284.10608201**	left	8	M20x1,5	20	70	50	30	18	6	12	20	2,3	20	60
K1284.10410201	**K1284.10610201**	left	10	M20x1,5	20	70	50	30	18	6	12	20	2,8	20	60
K1284.10412201	**K1284.10612201**	left	12	M20x1,5	20	70	50	30	18	6	12	20	3	20	60

Order No. Form A	Order No. Form C	Type	D	D1	D2	L	L2	L3	B	B1	H	SW1	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1284.2040410	**K1284.2060410**	right	4	M10	10	38	25	15	9	3	6	10	1	8	14
K1284.2040510	**K1284.2060510**	right	5	M10	10	38	25	15	9	3	6	10	1,3	8	14
K1284.2040610	**K1284.2060610**	right	6	M10	10	38	25	15	9	3	6	10	1,8	8	14
K1284.2040512	**K1284.2060512**	right	5	M12	12	47,8	30	19	10,8	3,6	8	12	1,3	8	15
K1284.2040612	**K1284.2060612**	right	6	M12	12	47,8	30	19	10,8	3,6	8	12	1,8	8	15
K1284.2040812	**K1284.2060812**	right	8	M12	12	47,8	30	19	10,8	3,6	8	12	2,3	8	15
K1284.2040616	**K1284.2060616**	right	6	M16	16	60,4	40	26	14,4	4,8	10	16	1,8	15	35
K1284.2040816	**K1284.2060816**	right	8	M16	16	60,4	40	26	14,4	4,8	10	16	2,3	15	35
K1284.2041016	**K1284.2061016**	right	10	M16	16	60,4	40	26	14,4	4,8	10	16	2,8	15	35
K1284.20408201	**K1284.20608201**	right	8	M20x1,5	20	70	50	30	18	6	12	20	2,3	20	60
K1284.20410201	**K1284.20610201**	right	10	M20x1,5	20	70	50	30	18	6	12	20	2,8	20	60
K1284.20412201	**K1284.20612201**	right	12	M20x1,5	20	70	50	30	18	6	12	20	3	20	60

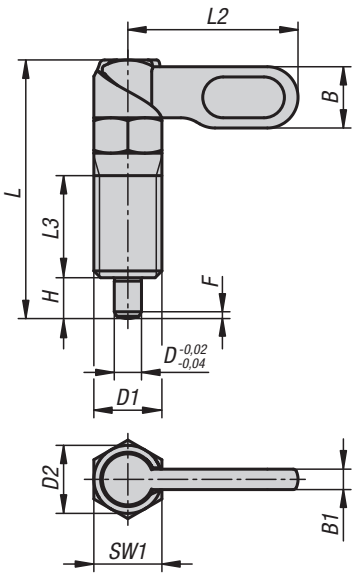
Order No. Form B	Order No. Form D	Type	D	D1	D2	L	L2	L3	B	B1	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1284.1050410	**K1284.1070410**	left	4	M10	10	38	25	15	9	3	6	10	17	1	8	14
K1284.1050510	**K1284.1070510**	left	5	M10	10	38	25	15	9	3	6	10	17	1,3	8	14
K1284.1050610	**K1284.1070610**	left	6	M10	10	38	25	15	9	3	6	10	17	1,8	8	14
K1284.1050512	**K1284.1070512**	left	5	M12	12	47,8	30	19	10,8	3,6	8	12	19	1,3	8	15
K1284.1050612	**K1284.1070612**	left	6	M12	12	47,8	30	19	10,8	3,6	8	12	19	1,8	8	15
K1284.1050812	**K1284.1070812**	left	8	M12	12	47,8	30	19	10,8	3,6	8	12	19	2,3	8	15
K1284.1050616	**K1284.1070616**	left	6	M16	16	60,4	40	26	14,4	4,8	10	16	24	1,8	15	35
K1284.1050816	**K1284.1070816**	left	8	M16	16	60,4	40	26	14,4	4,8	10	16	24	2,3	15	35
K1284.1051016	**K1284.1071016**	left	10	M16	16	60,4	40	26	14,4	4,8	10	16	24	2,8	15	35
K1284.10508201	**K1284.10708201**	left	8	M20x1,5	20	70	50	30	18	6	12	20	30	2,3	20	60
K1284.10510201	**K1284.10710201**	left	10	M20x1,5	20	70	50	30	18	6	12	20	30	2,8	20	60
K1284.10512201	**K1284.10712201**	left	12	M20x1,5	20	70	50	30	18	6	12	20	30	3	20	60
K1284.2050410	**K1284.2070410**	right	4	M10	10	38	25	15	9	3	6	10	17	1	8	14
K1284.2050510	**K1284.2070510**	right	5	M10	10	38	25	15	9	3	6	10	17	1,3	8	14
K1284.2050610	**K1284.2070610**	right	6	M10	10	38	25	15	9	3	6	10	17	1,8	8	14
K1284.2050512	**K1284.2070512**	right	5	M12	12	47,8	30	19	10,8	3,6	8	12	19	1,3	8	15
K1284.2050612	**K1284.2070612**	right	6	M12	12	47,8	30	19	10,8	3,6	8	12	19	1,8	8	15
K1284.2050812	**K1284.2070812**	right	8	M12	12	47,8	30	19	10,8	3,6	8	12	19	2,3	8	15
K1284.2050616	**K1284.2070616**	right	6	M16	16	60,4	40	26	14,4	4,8	10	16	24	1,8	15	35
K1284.2050816	**K1284.2070816**	right	8	M16	16	60,4	40	26	14,4	4,8	10	16	24	2,3	15	35
K1284.2051016	**K1284.2071016**	right	10	M16	16	60,4	40	26	14,4	4,8	10	16	24	2,8	15	35
K1284.20508201	**K1284.20708201**	right	8	M20x1,5	20	70	50	30	18	6	12	20	30	2,3	20	60
K1284.20510201	**K1284.20710201**	right	10	M20x1,5	20	70	50	30	18	6	12	20	30	2,8	20	60
K1284.20512201	**K1284.20712201**	right	12	M20x1,5	20	70	50	30	18	6	12	20	30	3	20	60

Cam action indexing plunger

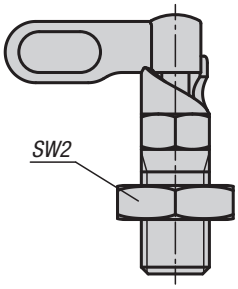
stainless steel, with stop



Ⓐ



Ⓑ



Material:
Stainless steel 1.4305.

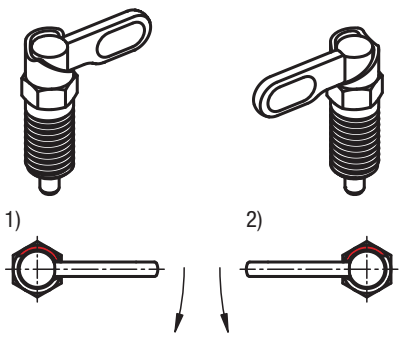
Version:
Bright. Indexing pin ground, not hardened.

Sample order:
K1285.1040616

Note:
Cam-action indexing plungers are used when the indexing pin should not project all the time. Turning the handle through 180° retracts the pin.
A notch ensures that the handle remains in this position.
A stop prevents the handle being rotated through more than 180° ensuring that the pin remains retracted.
Selecting which side the stop is on defines the rotation direction of the plunger.

Drawing reference:
Form A: grip uncoated without nut
Form B: grip uncoated with nut

1) stop left
2) stop right



Cam action indexing plunger

stainless steel, with stop

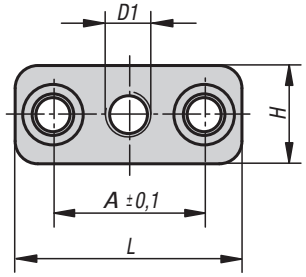
KIPP Cam action indexing plunger, stainless steel, with stop

Order No. Form A	Order No. Form B	Type	D	D1	D2	L	L2	L3	B	B1	H	SW1	SW2	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1285.1040410	**K1285.1050410**	left	4	M10	10	38	25	15	9	3	6	10	-/17	1	8	14
K1285.1040510	**K1285.1050510**	left	5	M10	10	38	25	15	9	3	6	10	-/17	1,3	8	14
K1285.1040610	**K1285.1050610**	left	6	M10	10	38	25	15	9	3	6	10	-/17	1,8	8	14
K1285.1040512	**K1285.1050512**	left	5	M12	12	47,8	30	19	10,8	3,6	8	12	-/19	1,3	8	15
K1285.1040612	**K1285.1050612**	left	6	M12	12	47,8	30	19	10,8	3,6	8	12	-/19	1,8	8	15
K1285.1040812	**K1285.1050812**	left	8	M12	12	47,8	30	19	10,8	3,6	8	12	-/19	2,3	8	15
K1285.1040616	**K1285.1050616**	left	6	M16	16	60,4	40	26	14,4	4,8	10	16	-/24	1,8	15	35
K1285.1040816	**K1285.1050816**	left	8	M16	16	60,4	40	26	14,4	4,8	10	16	-/24	2,3	15	35
K1285.1041016	**K1285.1051016**	left	10	M16	16	60,4	40	26	14,4	4,8	10	16	-/24	2,8	15	35
K1285.10408201	**K1285.10508201**	left	8	M20x1,5	20	70	50	30	18	6	12	20	-/30	2,3	20	60
K1285.10410201	**K1285.10510201**	left	10	M20x1,5	20	70	50	30	18	6	12	20	-/30	2,8	20	60
K1285.10412201	**K1285.10512201**	left	12	M20x1,5	20	70	50	30	18	6	12	20	-/30	3	20	60
K1285.2040410	**K1285.2050410**	right	4	M10	10	38	25	15	9	3	6	10	-/17	1	8	14
K1285.2040510	**K1285.2050510**	right	5	M10	10	38	25	15	9	3	6	10	-/17	1,3	8	14
K1285.2040610	**K1285.2050610**	right	6	M10	10	38	25	15	9	3	6	10	-/17	1,8	8	14
K1285.2040512	**K1285.2050512**	right	5	M12	12	47,8	30	19	10,8	3,6	8	12	-/19	1,3	8	15
K1285.2040612	**K1285.2050612**	right	6	M12	12	47,8	30	19	10,8	3,6	8	12	-/19	1,8	8	15
K1285.2040812	**K1285.2050812**	right	8	M12	12	47,8	30	19	10,8	3,6	8	12	-/19	2,3	8	15
K1285.2040616	**K1285.2050616**	right	6	M16	16	60,4	40	26	14,4	4,8	10	16	-/24	1,8	15	35
K1285.2040816	**K1285.2050816**	right	8	M16	16	60,4	40	26	14,4	4,8	10	16	-/24	2,3	15	35
K1285.2041016	**K1285.2051016**	right	10	M16	16	60,4	40	26	14,4	4,8	10	16	-/24	2,8	15	35
K1285.20408201	**K1285.20508201**	right	8	M20x1,5	20	70	50	30	18	6	12	20	-/30	2,3	20	60
K1285.20410201	**K1285.20510201**	right	10	M20x1,5	20	70	50	30	18	6	12	20	-/30	2,8	20	60
K1285.20412201	**K1285.20512201**	right	12	M20x1,5	20	70	50	30	18	6	12	20	-/30	3	20	60

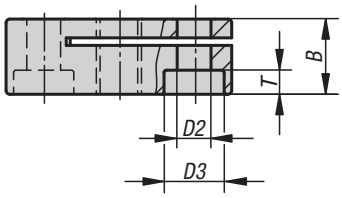
Mounting brackets

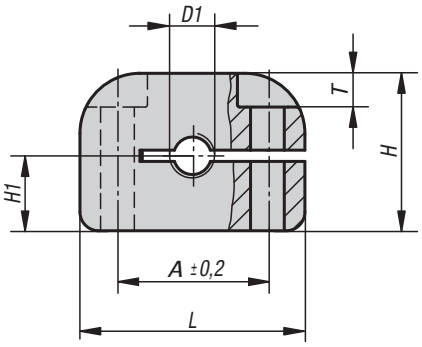
aluminium



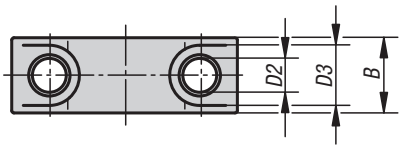


Form A
Fastening holes
parallel to thread





Form B
Fastening holes
perpendicular to thread

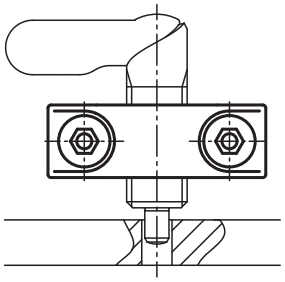


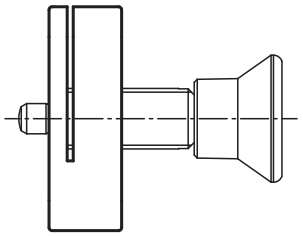
Material:
Aluminium 3.2163

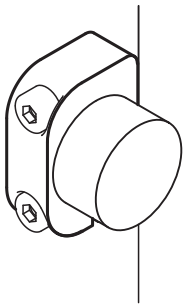
Version:
black.

Sample order:
K0638.308

Note:
Mounting brackets are an assembly aid for cam-action and other indexing plungers and expand the application field. For use with socket head screws DIN 912 / ISO 4762.







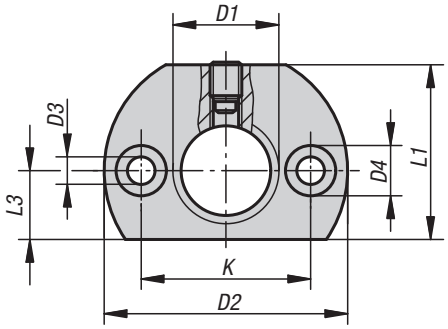
Mounting brackets

aluminium

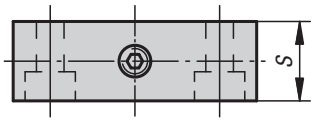
KIPP Mounting bracket aluminium

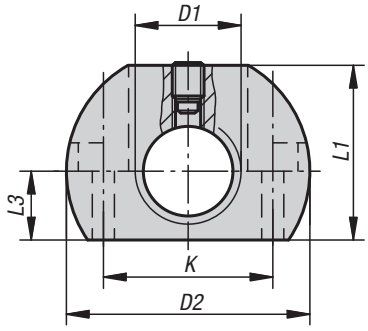
Order No.	Form	D1	D2	D3	A	B	H	H1	L	T
K0638.306	A	M6	4,5	8	20	10	13	-	30	3,2
K0638.3061	A	M6x0,75	4,5	8	20	10	13	-	30	3,2
K0638.308	A	M8	4,5	8	20	10	13	-	30	3,2
K0638.3081	A	M8x1	4,5	8	20	10	13	-	30	3,2
K0638.310	A	M10	5,5	10	24	12	18	-	37	3,9
K0638.3101	A	M10x1	5,5	10	24	12	18	-	37	3,9
K0638.312	A	M12	5,5	10	24	12	18	-	37	3,9
K0638.3121	A	M12x1,5	5,5	10	24	12	18	-	37	3,9
K0638.316	A	M16	5,5	10	32	15	25	-	46	3,9
K0638.3161	A	M16x1,5	5,5	10	32	15	25	-	46	3,9
K0638.320	A	M20	5,5	10	32	15	25	-	46	3,9
K0638.3201	A	M20x1,5	5,5	10	32	15	25	-	46	3,9
K0638.406	B	M6	4,5	8	20	10	21	10	30	4,5
K0638.4061	B	M6x0,75	4,5	8	20	10	21	10	30	4,5
K0638.408	B	M8	4,5	8	20	10	21	10	30	4,5
K0638.4081	B	M8x1	4,5	8	20	10	21	10	30	4,5
K0638.410	B	M10	5,5	10	24	12	26	13	36	5,5
K0638.4101	B	M10x1	5,5	10	24	12	26	13	36	5,5
K0638.412	B	M12	5,5	10	24	12	26	13	36	5,5
K0638.4121	B	M12x1,5	5,5	10	24	12	26	13	36	5,5
K0638.416	B	M16	5,5	10	32	15	29	17	46	5,5
K0638.4161	B	M16x1,5	5,5	10	32	15	29	17	46	5,5
K0638.420	B	M20	5,5	10	32	15	29	17	46	5,5
K0638.4201	B	M20x1,5	5,5	10	32	15	29	17	46	5,5

Mounting brackets

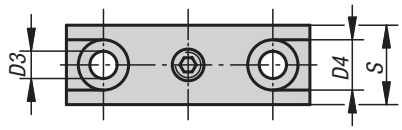


Form A
fastening holes parallel
to indexing plunger





Form B
fastening holes perpendicular
to indexing plunger





Material:
Steel.

Version:
Black oxidised.

Sample order:
K0638.116

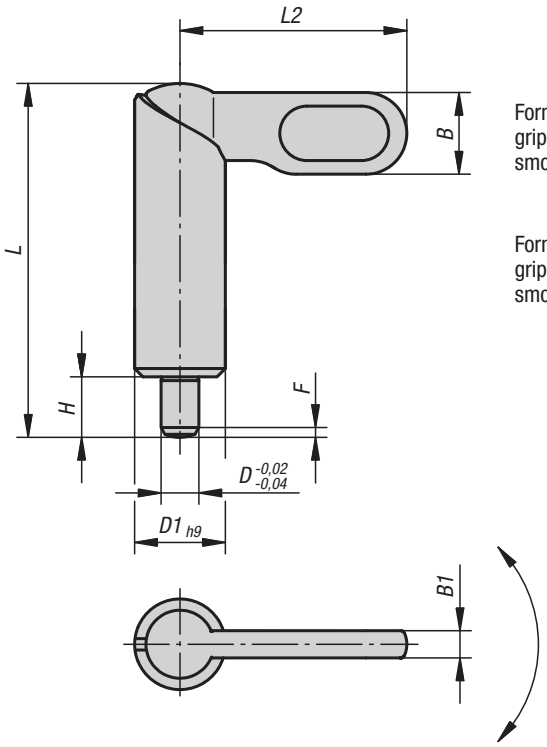
Note:
Mounting brackets are assembly aids for cam-action indexing plungers and extend their application field. They can also be used for other indexing plungers.

KIPP Mounting brackets

Order No.	Form	D1	D2	D3	D4	K	L1	L3	S
K0638.112	A	M12	36	5,5	10	24	25	10	12
K0638.1121	A	M12x1,5	36	5,5	10	24	25	10	12
K0638.116	A	M16	46	5,5	10	32	33	13	15
K0638.1161	A	M16x1,5	46	5,5	10	32	33	13	15
K0638.120	A	M20	46	5,5	10	32	33	13	15
K0638.1201	A	M20x1,5	46	5,5	10	32	33	13	15
K0638.212	B	M12	36	5,5	10	24	25	10	12
K0638.2121	B	M12x1,5	36	5,5	10	24	25	10	12
K0638.216	B	M16	46	5,5	10	32	33	13	15
K0638.2161	B	M16x1,5	46	5,5	10	32	33	13	15
K0638.220	B	M20	46	5,5	10	32	33	13	15
K0638.2201	B	M20x1,5	46	5,5	10	32	33	13	15

Cam-action indexing plungers





Form E
grip uncoated
smooth sleeve

Form F
grip powder-coated
smooth sleeve

Material:
Handle 1.0503.
Pin steel grade 5.8.
Sleeve 1.0403 weldable.

Version:
Black oxidised.
Pin hardened and ground.

Sample order:
K0639.091220

Note:
Cam-action indexing plungers are used when the indexing pin should not project all the time. Turning the handle through 180° retracts the pin.
A notch ensures that the handle remains in this position.
To weld the plungers we recommend inert gas shielded welding with TIG welding equipment.

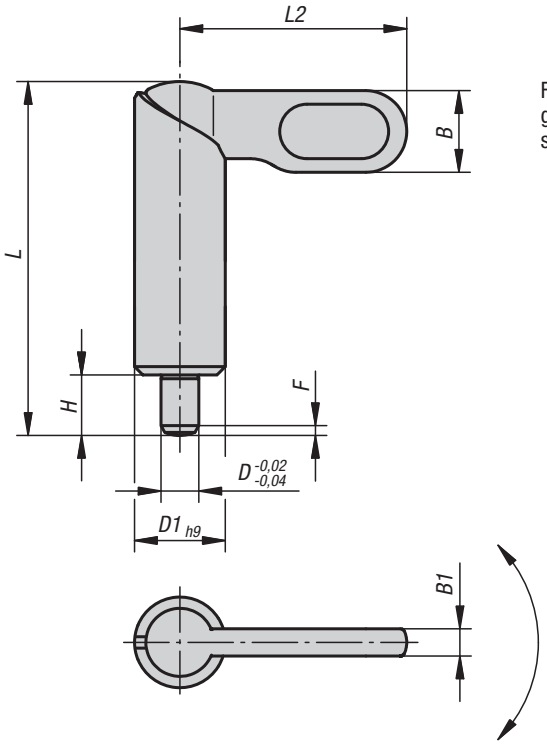
KIPP Cam-action indexing plungers

Order No. Form E	Order No. Form F	D	D1	L	L2	B	B1	H	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0639.080410	K0639.090410	4	10	38	25	9	3	6	1	8	14
K0639.080510	K0639.090510	5	10	38	25	9	3	6	1,3	8	14
K0639.080610	K0639.090610	6	10	38	25	9	3	6	1,8	8	14
K0639.080512	K0639.090512	5	12	46,8	30	10,8	3,6	8	1,3	8	15
K0639.080612	K0639.090612	6	12	46,8	30	10,8	3,6	8	1,8	8	15
K0639.080812	K0639.090812	8	12	46,8	30	10,8	3,6	8	2,3	8	15
K0639.080616	K0639.090616	6	16	60,4	40	14,4	4,8	10	1,8	15	35
K0639.080816	K0639.090816	8	16	60,4	40	14,4	4,8	10	2,3	15	35
K0639.081016	K0639.091016	10	16	60,4	40	14,4	4,8	10	2,8	15	35
K0639.080820	K0639.090820	8	20	70	50	18	6	12	2,3	20	60
K0639.081020	K0639.091020	10	20	70	50	18	6	12	2,8	20	60
K0639.081220	K0639.091220	12	20	70	50	18	6	12	3	20	60

Cam-action indexing plungers

stainless steel





Form E
grip uncoated
smooth sleeve

Material:
Handle stainless steel 1.4308.
Indexing pin stainless steel 1.4305.
Sleeve weldable stainless steel 1.4301.

Version:
Bright. Indexing pin ground, not hardened.

Sample order:
K0640.1081220

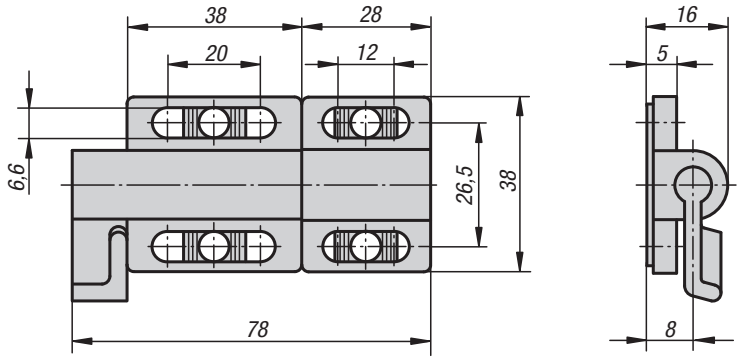
Note:
Cam-action indexing plungers are used when the indexing pin should not project all the time. Turning the handle through 180° retracts the pin.
A notch ensures that the handle remains in this position.
To weld the plungers we recommend inert gas shielded welding with TIG welding equipment.

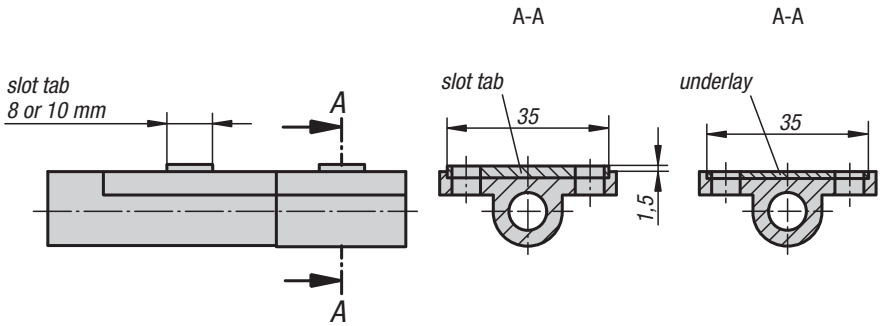
KIPP Cam-action indexing plungers stainless steel

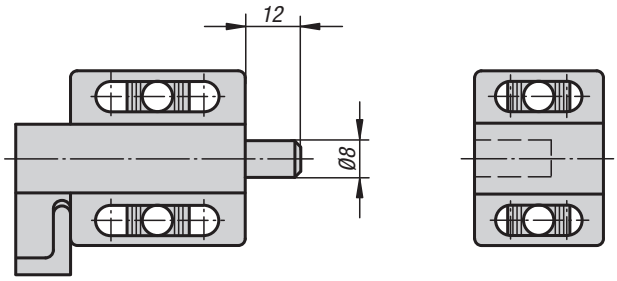
Order No.	Form	D	D1	L	L2	B	B1	H	F x 30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0640.1080410	E	4	10	38	25	9	3	6	1	8	14
K0640.1080510	E	5	10	38	25	9	3	6	1,3	8	14
K0640.1080610	E	6	10	38	25	9	3	6	1,8	8	14
K0640.1080512	E	5	12	46,8	30	10,8	3,6	8	1,3	8	15
K0640.1080612	E	6	12	46,8	30	10,8	3,6	8	1,8	8	15
K0640.1080812	E	8	12	46,8	30	10,8	3,6	8	2,3	8	15
K0640.1080616	E	6	16	60,4	40	14,4	4,8	10	1,8	15	35
K0640.1080816	E	8	16	60,4	40	14,4	4,8	10	2,3	15	35
K0640.1081016	E	10	16	60,4	40	14,4	4,8	10	2,8	15	35
K0640.1080820	E	8	20	70	50	18	6	12	2,3	20	60
K0640.1081020	E	10	20	70	50	18	6	12	2,8	20	60
K0640.1081220	E	12	20	70	50	18	6	12	3	20	60

Barrel slide bolts









Material:
Housing die-cast zinc.
Grip, underlay and slot tabs thermoplastic PA.
Bolt stainless steel.

Version:
Housing painted silver.
Grip, underlay and slot tabs black.
Bolt bright.

Sample order:
K0349.38038028

Note:
Spring loaded bolt.
Supplied with:
- 2 underlays for mounting on level surfaces.
- 2 of each tabs for mounting on profiles with 8 or 10 mm slots.



KIPP Barrel slide bolts

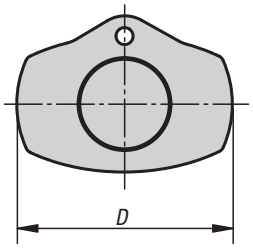
Order No.	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K0349.38038028	5	15

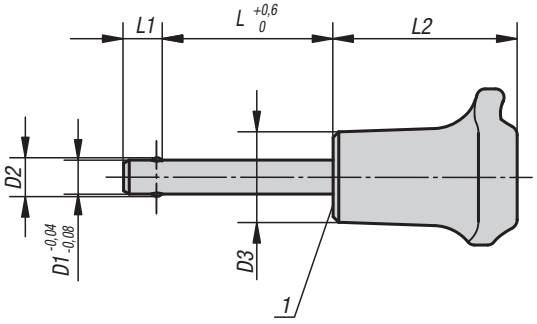
Ball lock pins

self-locking

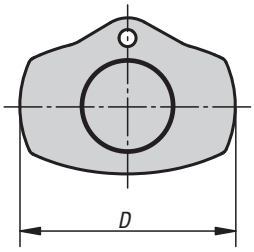


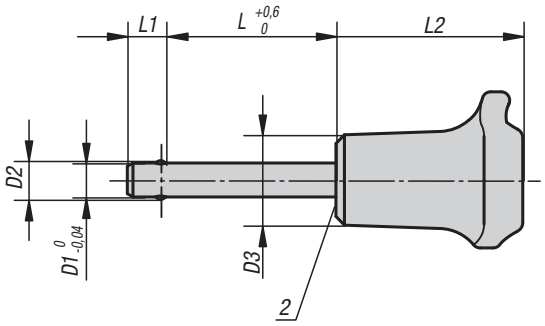
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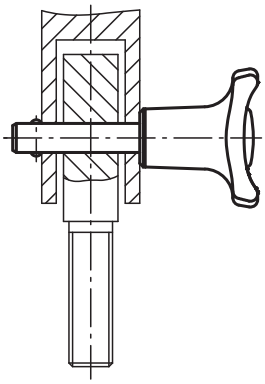




Ⓑ







Material:
Grip and push button thermoplastic.
Metal parts stainless steel.

Version:
Grip black.
Push button traffic red.
Steel parts bright.

Sample order:
K0363.3806050
(include length L e.g. 050 for L = 50 mm.)

Note:
Ball lock pins are used for quick and easy fastening and joining of parts and workpieces.
The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. Release the button to lock the balls and secure the connection.
Form A is suitable for applications where high demands and precision are required.

Shearing force double shear (F) = S · τ aB max.

Features:
Form A:
Pin ground, metal collar, high axial pull-out force
Form B:
Pin h9, plastic collar, low axial pull-out force

Accessories:
Safety spiral cable K0367.10200
Retaining cable with loop K0367. .....
Key ring K0367.15/19/23
Bushing for ball lock pins K0724....

Drawing reference:
1) Metal collar
2) Plastic collar

KIPP Ball lock pins, self-locking, Form A, metal collar

Order No.	D	D1	D2	D3	L	L1	L2	Receiving hole H11	Shearing force double shear max.kN
K0363.3805* **	38	5	5,5	16	10/15/20/25/30	6	32,5	5	15
K0363.3806* **	38	6	6,85	16	10/15/20/25/30/35/40/45/50	7	32,5	6	22
K0363.3808* **	38	8	9,5	16	20/25/30/35/40/45/50	8	32,5	8	38
K0363.4710* **	47	10	12	23	20/25/30/35/40/45/50/60	9	40	10	60
K0363.4712* **	47	12	14,5	23	25/30/35/40/45/50/60/70/80	10	40	12	86
K0363.4716* **	47	16	19	23	30/35/40/45/50/60/70/80	13	40	16	153

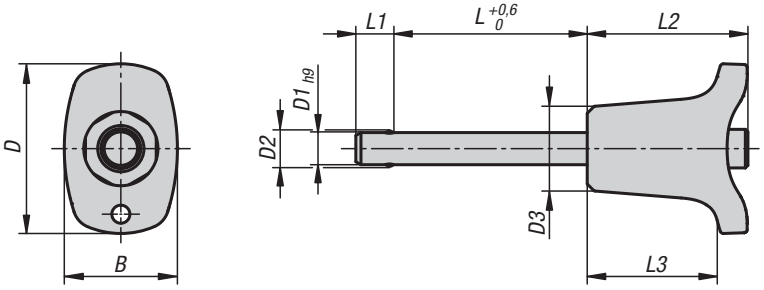
KIPP Ball lock pins, self-locking, Form B, plastic collar

Order No.	D	D1	D2	D3	L	L1	L2	Receiving hole H11	Shearing force double shear max.kN
K0363.13805* **	38	5	5,5	16	15/20/25/30	5,9	33	5	15
K0363.13806* **	38	6	6,85	16	30/40/50	6,8	33	6	22
K0363.13808* **	38	8	9,5	16	30/40/50	7,8	33	8	38

Ball lock pins

self-locking





Material:
Grip thermoplastic.
Steel parts stainless steel 1.4305.

Version:
Grip black.
Steel parts bright.

Sample order:
K0792.002606050
(include length L e.g. 050 for L = 50 mm.)

Note:
Ball lock pins are used for quick and easy fastening and joining of parts and workpieces. The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. Release the button to lock the balls and secure the connection. An option for connecting a retaining cable is provided.

Shearing force double shear (F) = S · τ aB max.

Accessories:
Safety spiral cable K0367.10200
Retaining cable with loop K0367. .....
Key ring K0367.15/19/23
Bushing for ball lock pins K0724....

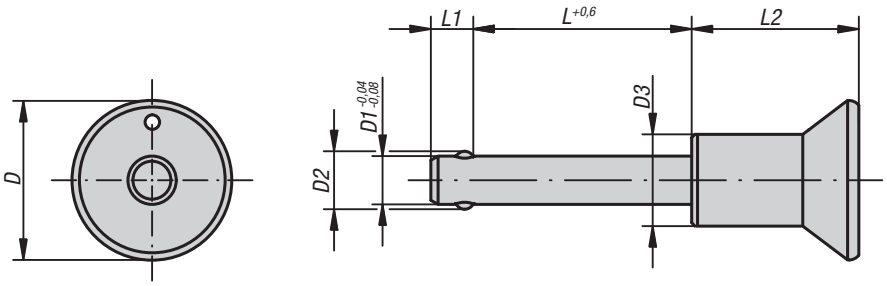
KIPP Ball lock pins self-locking

Order No.	B	D	D1	D2	D3	L	L1	L2	L3	Receiving hole H11	Shearing force double shear max.kN
K0792.002605* **	17,6	26,4	5	5,5	13,2	10/15/20/25/30	5,9	25	20,2	5	15
K0792.002606* **	17,6	26,4	6	6,85	13,2	10/15/20/25/30/35/40/45/50	6,8	25	20,2	6	22
K0792.003308* **	23	33,2	8	9,5	17,3	20/25/30/35/40/45/50	7,8	33	26,1	8	38
K0792.003310* **	23	33,2	10	12	17,3	20/25/30/35/40/45/50/60	8,9	33	26,1	10	60
K0792.004612* **	33	45,9	12	14,5	26,3	25/30/35/40/45/50/60/70/80	9,9	39,5	31,3	12	86
K0792.004616* **	33	45,9	16	19	26,3	30/35/40/45/50/60/70/80	13,1	39,5	31,3	16	153

Ball lock pins

self-locking stainless steel





Material:
Metal parts stainless steel.

Version:
Bright.

Sample order:
K0364.3110030
(include length L e.g. 030 for L = 30 mm)

Note:
Ball lock pins are used for quick and easy fastening and joining of parts and workpieces.
The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. Release the button to lock the balls and secure the connection.
Corrosion resistant. Option for connecting retaining cable. Application temperature max. +250 °C.

Shearing force double shear (F) = S · τ aB max.

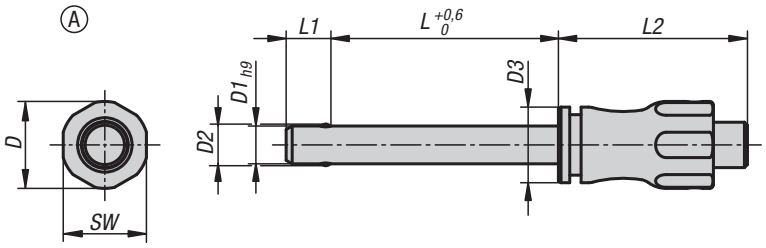
Accessories:
Safety spiral cable K0367.10200
Retaining cable with loop K0367. .....
Key ring K0367.15/19/23
Bushing for ball lock pins K0724....

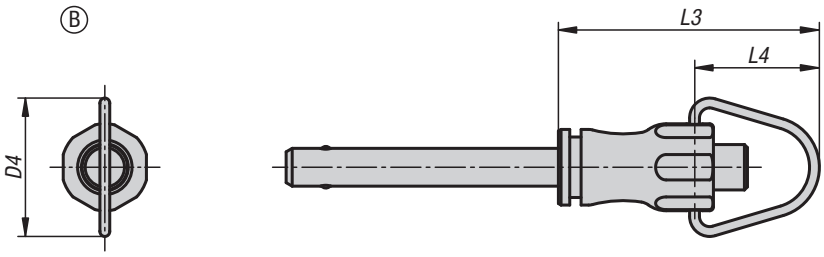
KIPP Ball lock pins self-locking stainless steel

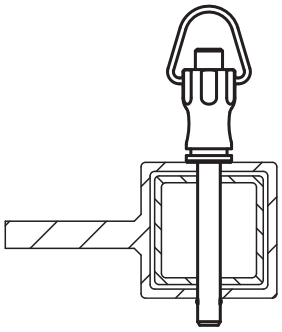
Order No.	D	D1	D2	D3	L	L1	L2	Receiving hole H11	Shearing force double shear max.kN
K0364.2305* **	25	5	5,5	14	10/15/20/25/30	6	26,5	5	15
K0364.2306* **	25	6	6,85	14	10/15/20/25/30/35/40/45/50	7	26,5	6	22
K0364.2308* **	25	8	9,5	14	20/25/30/35/40/45/50	8	26,5	8	38
K0364.3110* **	33	10	12	19	20/25/30/35/40/45/50/60	9	34,6	10	60
K0364.3112* **	33	12	14,5	19	25/30/35/40/45/50/60/70/80	10	34,6	12	86
K0364.3116* **	33	16	19	20	30/35/40/45/50/60/70/80	13,3	34,6	16	153

Ball lock pins

stainless steel, self-locking









Material:
Grip and push button stainless steel 1.4305.
Pin stainless steel 1.4305.
Balls stainless steel 1.4125.
Compression spring and handle stainless steel 1.4310.

Version:
Bright.

Sample order:
K0790.001508050
(include length L e.g. 050 for L = 50 mm)

Note:
Ball lock pins are used for quick and easy fastening and joining of parts and workpieces.
The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. Release the button to lock the balls and secure the connection.

Shearing force double-shear (F) = S · τ aB max.

Accessories:
Safety spiral cable K0367.10200
Retaining cable with loop K0367. .....
Key ring K0367.15/19/23
Bushing for ball lock pins K0724....

KIPP Ball lock pins stainless steel self-locking, Form A

Order No. Form A	D	D1	D2	D3	L	L1	L2	SW	Receiving hole H11	Shearing force double shear max.kN
K0790.001205* **	11,5	5	5,5	10	10/15/20/25/30	5,9	25	11	5	15
K0790.001206* **	11,5	6	6,85	10	10/15/20/25/30/35/40/45/50	6,8	25	11	6	22
K0790.001508* **	15,5	8	9,5	13,5	20/25/30/35/40/45/50	7,8	33	15	8	38
K0790.001510* **	15,5	10	12	13,5	20/25/30/35/40/45/50/60	8,9	33	15	10	60
K0790.002112* **	22	12	14,5	20	25/30/35/40/45/50/60/70/80	9,9	39,5	21	12	86
K0790.002116* **	22	16	19	20	30/35/40/45/50/60/70/80	13,1	39,5	21	16	153

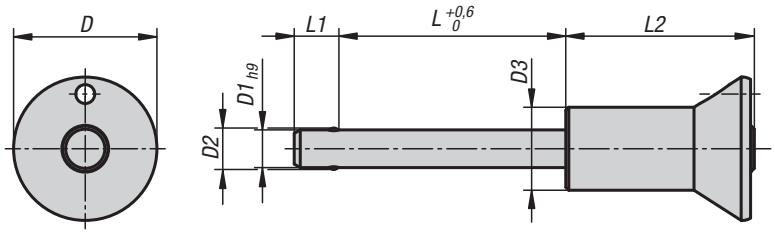
KIPP Ball lock pins stainless steel self-locking, Form B

Order No. Form B	D	D1	D2	D3	D4	L	L1	L2	L3	L4	SW	Receiving hole H11	Shearing force double shear max.kN
K0790.101205* **	11,5	5	5,5	10	18,3	10/15/20/25/30	5,9	25	34,6	16,6	11	5	15
K0790.101206* **	11,5	6	6,85	10	18,3	10/15/20/25/30/35/40/45/50	6,8	25	34,6	16,6	11	6	22
K0790.101508* **	15,5	8	9,5	13,5	24	20/25/30/35/40/45/50	7,8	33	46,7	22,7	15	8	38
K0790.101510* **	15,5	10	12	13,5	24	20/25/30/35/40/45/50/60	8,9	33	46,7	22,7	15	10	60
K0790.102112* **	22	12	14,5	20	33	25/30/35/40/45/50/60/70/80	9,9	39,5	59,3	30,3	21	12	86
K0790.102116* **	22	16	19	20	33	30/35/40/45/50/60/70/80	13,1	39,5	59,3	30,3	21	16	153

Ball lock pins with mushroom knob

stainless steel, self-locking





Material:
Mushroom knob and push button stainless steel 1.4305.
Pin stainless steel 1.4305.
Balls stainless teel 1.4125.
Compression spring stainless steel 1.4310.

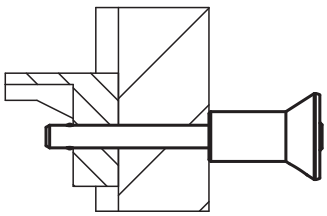
Version:
Bright.

Sample order:
K0791.02510050
(include length L e.g. 050 for L = 50 mm)

Note:
Ball lock pins are used for quick and easy fastening and joining of parts and workpieces.
The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. Release the button to lock the balls and secure the connection.

Shearing force double-shear (F) = S · τ aB max.

Accessories:
Safety spiral cable K0367.10200
Retaining cable with loop K0367. .....
Key ring K0367.15/19/23
Bushing for ball lock pins K0724....



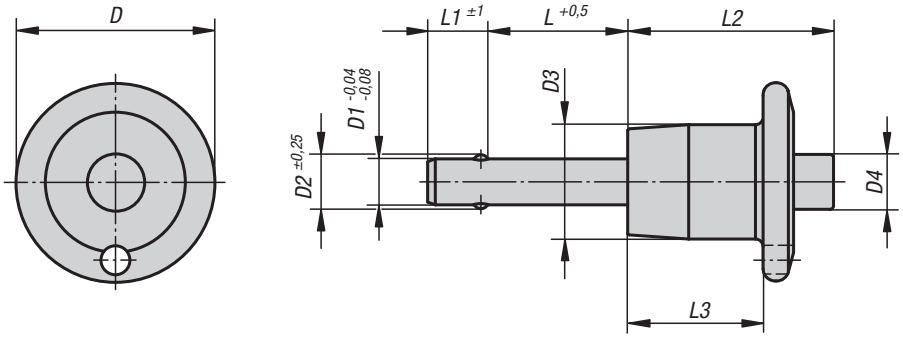
KIPP Ball lock pins with mushroom knob stainless steel self-locking

Order No.	D	D1	D2	D3	L	L1	L2	Receiving hole H11	Shearing force double shear max.kN
K0791.01905* **	19	5	5,5	11	10/15/20/25/30	5,9	25	5	15
K0791.01906* **	19	6	6,85	11	10/15/20/25/30/35/40/45/50	6,8	25	6	22
K0791.02508* **	25	8	9,5	14	20/25/30/35/40/45/50	7,8	33	8	38
K0791.02510* **	25	10	12	14	20/25/30/35/40/45/50/60	8,9	33	10	60
K0791.03512* **	35	12	14,5	22	25/30/35/40/45/50/60/70/80	9,9	39,5	12	86
K0791.03516* **	35	16	19	22	30/35/40/45/50/60/70/80	13,1	39,5	16	153

Ball lock pins

with mushroom knob, self-locking, stainless steel





Material:
Pin stainless steel 1.4542.
Mushroom knob and push button stainless steel 1.4305.
Balls stainless steel 1.4125.
Compression spring stainless steel.

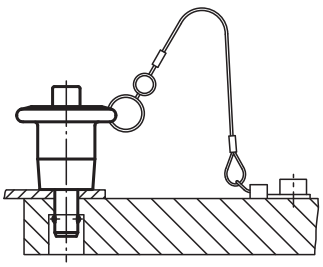
Version:
All stainless steel parts passivated.
Pin hardened to min. 40 HRC.
Balls hardened to 58 +4 HRC.

Sample order:
K0641.02105030
(include length L e.g. 030 for L = 30 mm.)

Note:
Ball lock pins are used for quick and easy fastening and joining of parts and workpieces. The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. Release the button to lock the balls and secure the connection. An option for connecting a retaining cable is provided.

Shearing force double shear (F) = S · τ aB max.

Accessories:
Safety spiral cable K0367.10200
Retaining cable with loop K0367. .....
Key ring K0367.15/19/23
Bushing for ball lock pins K0724....



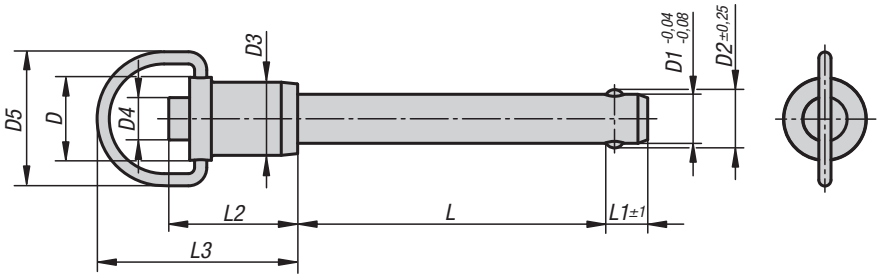
KIPP Ball lock pins with mushroom knob, self-locking, stainless steel

Order No.	D	D1	D2	D3	D4	L	L1	L2	L3	Receiving hole H11	Shearing force double shear max.kN
K0641.02105* **	20,6	5	5,54	11,9	5,8	10/15/20/25/30/35/40/50/60/70	6	23,4	16	5	24,4
K0641.02106* **	20,6	6	6,99	11,9	5,8	10/15/20/25/30/35/40/50/60/70/80	7	23,4	16	6	35,64
K0641.02108* **	20,6	8	9,42	11,9	5,8	10/15/20/25/30/35/40/50/60/70/80	8	23,4	16	8	63,8
K0641.02510* **	25,4	10	11,86	14,2	7,4	15/20/25/30/35/40/50/60/70/80/90/100	9	25,7	17,8	10	100,1
K0641.03512* **	34,7	12	14,45	18,3	10,7	20/25/30/35/40/50/60/70/80/90/100	10	32,3	21,6	12	144,06

Ball lock pins

with grip ring, self-locking, stainless steel





Material:
Pin stainless steel 1.4542.
Head and push button stainless steel 1.4305.
Balls stainless steel 1.4125.
Spring stainless steel.
Grip ring and key ring stainless steel.

Version:
All stainless steel parts passivated.
Pin, hardened to min. 40 HRC.
Balls hardened to 58 +4 HRC.

Sample order:
K0746.01505030
(Include length L e.g. 030 for L = 30 mm)

Note:
Ball lock pins are used for quick and easy fastening and joining of parts and workpieces. The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. Release the button to lock the balls and secure the connection. The ball lock pins can be provided with a retaining cable if required.

The hardened, high-tensile stainless steel pin permits extreme loads with low wear. The high corrosion and acid resistance allow use in the foodstuff, chemical and petrochemical industries and as aerospace construction elements.

Shearing force double shear (F) = S · τ aB max.

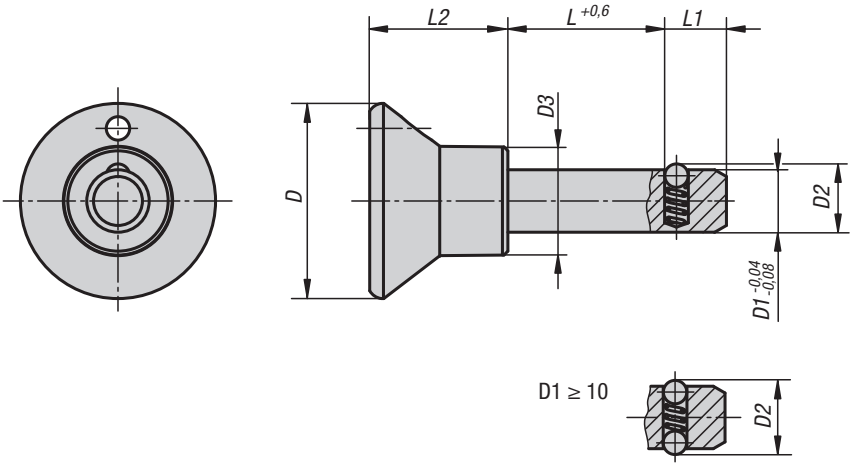
Accessories:
Safety spiral cable K0367.10200
Retaining cable with loop K0367. .....
Key ring K0367.15/19/23
Bushing for ball lock pins K0724....

KIPP Ball lock pins with grip ring, self-locking, stainless steel

Order No.	D	D1	D2	D3	D4	D5	L	L1	L2	L3	Receiver hole H11	Shearing force double shear max.kN
K0746.01505* **	15	5	5,54	11,9	5,8	29,5	10/15/20/25/30/35/40/45/50/60/70/80/90/100	6	23,4	36,8	5	24,4
K0746.01506* **	15	6	6,99	11,9	5,8	29,5	10/15/20/25/30/35/40/45/50/60/70/80/90/100	7	23,4	36,8	6	35,64
K0746.01508* **	15	8	9,42	11,9	5,8	29,5	10/15/20/25/30/35/40/45/50/60/70/80/90/100	8	23,4	36,8	8	63,8
K0746.01710* **	16,5	10	11,86	14,2	7,4	29,5	15/20/25/30/35/40/45/50/60/70/80/90/100	9	25,7	38,6	10	100,1
K0746.02112* **	20,6	12	14,45	18,3	10,7	36,3	20/25/30/35/40/45/50/60/70/80/90/100	10	32,3	47,8	12	144,06
K0746.02716* **	26,9	16	19	23,9	13,7	43,7	25/30/35/40/45/50/60/70/80/90/100	14	41,9	65,3	16	257,18

Locking pins





Material:
Grip thermoplastic.
Steel parts stainless steel.

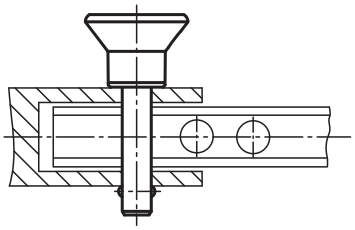
Version:
Grip black.
Steel parts bright.

Sample order:
K0365.2508020

Note:
Locking pins are used for quick and easy fixating and joining of parts and workpieces.

Shearing force double-shear (F) = S · τ aB max.

Accessories:
Safety spiral cable K0367.10200
Retaining cable with loop K0367. .....
Key ring K0367.15/19/23
Bushing for ball lock pins K0724....

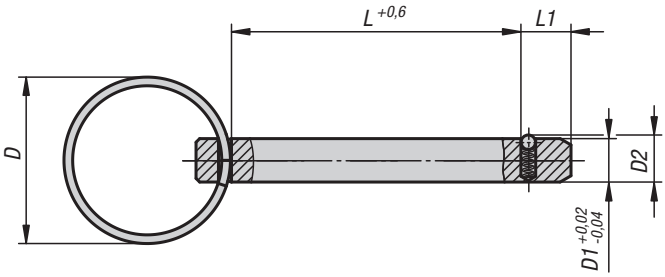


KIPP Locking pins

Order No.	D	D1	D2	D3	L	L1	L2	Receiving hole H11	Shearing force double shear max.kN
K0365.2506* **	25	6	6,5	14	10/15/20/25/30/40/50	7	17,7	6	22
K0365.2508* **	25	8	8,75	14	15/20/25/30/40/50	8	17,7	8	38
K0365.3310* **	33	10	12	19	15/20/25/30/40/50	9	24	10	60
K0365.3312* **	33	12	14,5	19	20/30/40/50	10	24	12	86

Locking pins with key ring





Material:
Pin steel.
Key ring stainless steel.

Version:
Pins galvanized.
Key ring bright.

Sample order:
K0365.102306020
(include length L e.g. 020 for L = 20 mm.)

Note:
Locking pins are used for quick and easy fixating and joining of parts and workpieces.

Shearing force double shear (F) = S · τ aB max.

The locking pins with key ring represent a cost-effective alternative to other locking pins.

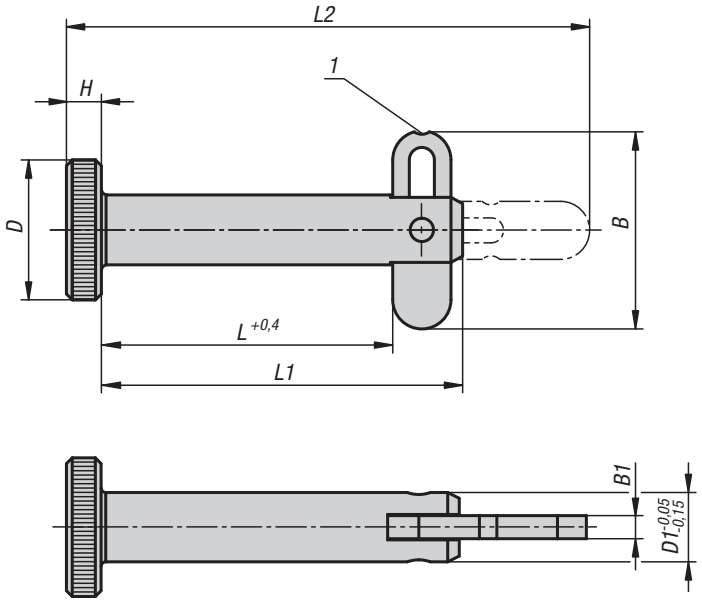
KIPP Locking pins with key ring

Order No.	D	D1	D2	L	L1	Shearing force double shear max.kN
K0365.102306015	23	6	6,5	15	7	22
K0365.102306020	23	6	6,5	20	7	22
K0365.102306030	23	6	6,5	30	7	22
K0365.102306040	23	6	6,5	40	7	22
K0365.102808030	28	8	8,8	30	8	38
K0365.102808040	28	8	8,8	40	8	38
K0365.102808050	28	8	8,8	50	8	38

Notes

Locking pins with folding latch



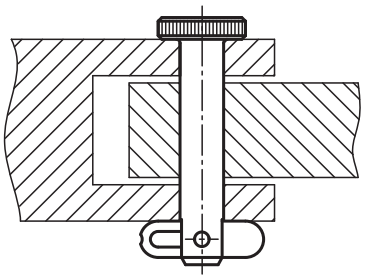


Material:
Steel galvanized.

Sample order:
K0776.06025

Note:
Locking pins with folding latch are not only used for fast and easy fixing but also for permanent joining of movable parts and workpieces.
The wide folding latch lets you secure the parts to be joined over a large cross section. It can also work under pressure in the axial direction.
Indexing slots in the folding latch allow definite “Closed” and “Open” positions.

Drawing reference:
1) locking slot

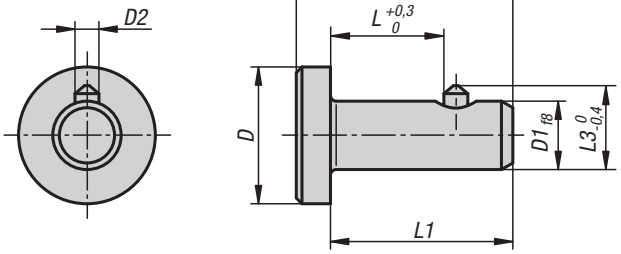


KIPP Locking pins with folding latch

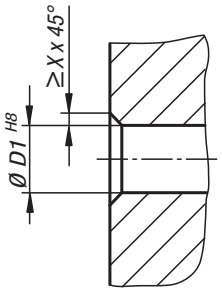
Order No.	D	D1	L	L1	L2	H	B	B1	Receiving hole H11	Shearing force double shear max.kN	Extraction force F N
K0776.06025	12	6	25	31	45	3	16,9	2	6	12	190
K0776.06040	12	6	40	46	60	3	16,9	2	6	12	190
K0776.06050	12	6	50	56	70	3	16,9	2	6	12	190
K0776.08025	16	8	25	31	46	4	16,9	2	8	21	270
K0776.08040	16	8	40	46	61	4	16,9	2	8	21	270
K0776.08050	16	8	50	56	71	4	16,9	2	8	21	270

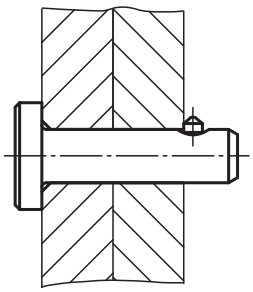
Notes

Locking pins with axial lock









Material:
Steel.

Version:
galvanized.

Sample order:
K0772.1206016

Note:
Locking pins are used for quick and easy fixating and joining of parts and workpieces.

Shearing force double-shear (F) = S · τ aB max.

Assembly:
Observe the assembly aid dimension X in the workpiece.

Drawing reference:
Chamfer for counterpart Xmin. x 45°

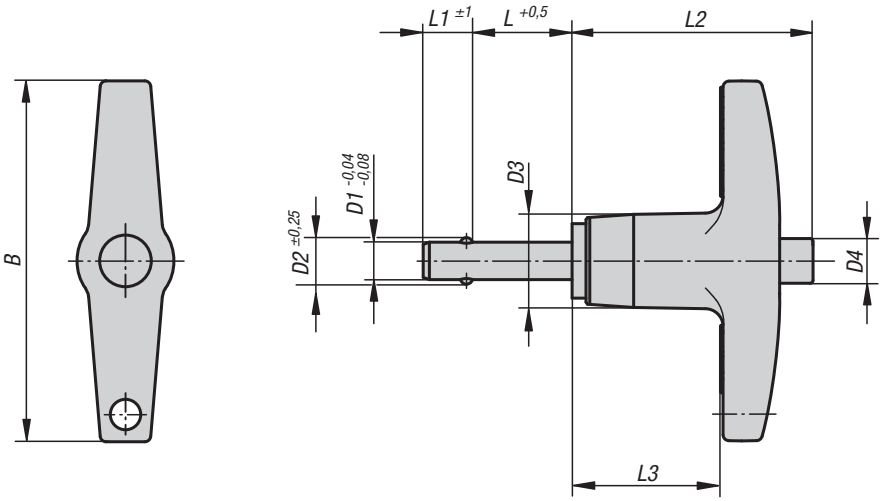
KIPP Locking pins with axial lock

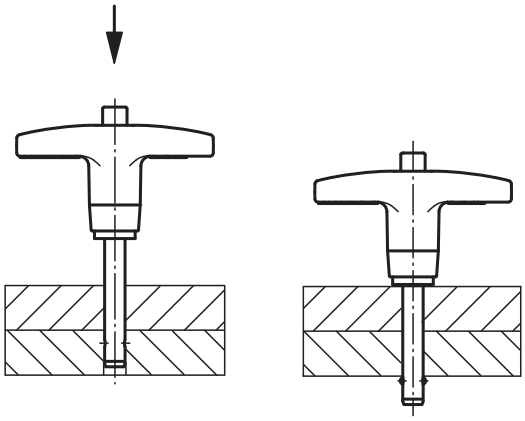
Order No.	D	D1	D2	X	L	L1	L2	L3	Shearing force double shear max.kN
K0772.1206010	12	6	2,1	1,1	10	16	19	7,4	12
K0772.1206012	12	6	2,1	1,1	12	18	21	7,4	12
K0772.1206016	12	6	2,1	1,1	16	22	25	7,4	12
K0772.1206020	12	6	2,1	1,1	20	26	29	7,4	12
K0772.1608012	16	8	2,1	1,1	12	18	22	9,4	22
K0772.1608016	16	8	2,1	1,1	16	22	26	9,4	22
K0772.1608020	16	8	2,1	1,1	20	26	30	9,4	22
K0772.1608025	16	8	2,1	1,1	25	31	35	9,4	22
K0772.2010012	20	10	2,8	1,2	12	20	24	11,8	35
K0772.2010016	20	10	2,8	1,2	16	24	28	11,8	35
K0772.2010020	20	10	2,8	1,2	20	28	32	11,8	35
K0772.2010025	20	10	2,8	1,2	25	33	37	11,8	35
K0772.2412016	24	12	2,8	1,2	16	24	29	13,8	51
K0772.2412020	24	12	2,8	1,2	20	28	33	13,8	51
K0772.2412025	24	12	2,8	1,2	25	33	38	13,8	51
K0772.2412030	24	12	2,8	1,2	30	38	43	13,8	51

Ball lock pins

with T-grip, self-locking







Material:
Pin stainless steel 1.4542.
Grip die-cast aluminium EN-AC 46000.
Push button aluminium EN-AW 2024 T4.
Balls stainless steel 1.4125.
Compression spring stainless steel.

Version:
All stainless steel parts passivated.
Pin hardened to min. 40 HRC.
Grip black anodised.
Push button blue anodised.
Balls hardened to 58 +4 HRC.

Sample order:
K0366.24605030
(include length L e.g. 030 for L = 30 mm.)

Note:
Ball lock pins are used for quick and easy fastening and joining of parts and workpieces. The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. Release the button to lock the balls and secure the connection. The ball lock pins can be provided with a retaining cable if required.

The hardened, high-tensile stainless steel pin permits extreme loads with low wear.

Shearing force double shear (F) = S · τ aB max.

Accessories:
Safety spiral cable K0367.10200
Retaining cable with loop K0367. .....
Key ring K0367.15/19/23
Bushing for ball lock pins K0724....

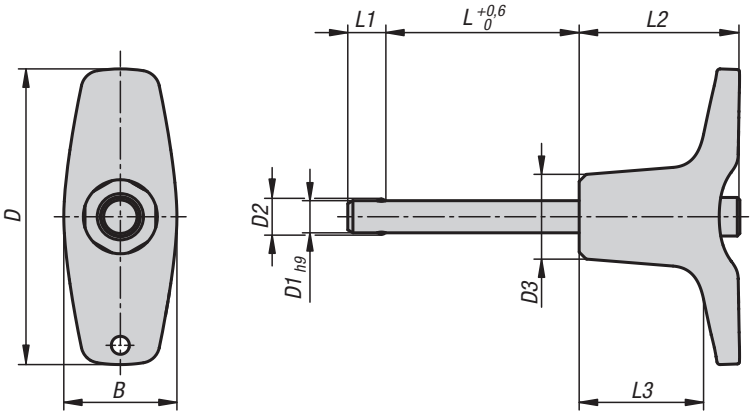
KIPP Ball lock pins with T-grip, self-locking

Order No.	B	D1	D2	D3	D4	L	L1	L2	L3	Receiving hole H11	Shearing force double shear max.kN
K0366.24605* **	46	5	5,54	11,9	5,8	10/15/20/25/30/35/40/50/60/70	6	30,7	19,3	5	24,4
K0366.24606* **	46	6	6,99	11,9	5,8	10/15/20/25/30/35/40/50/60/70/80	7	30,7	19,3	6	35,64
K0366.24608* **	46	8	9,42	11,9	5,8	10/15/20/25/30/35/40/50/60/70/80	8	30,7	19,3	8	63,8
K0366.25110* **	50,8	10	11,86	14,2	7,4	15/20/25/30/35/40/50/60/70/80/90/100	9	34,8	22,1	10	100,1
K0366.25812* **	57,2	12	14,45	18,3	10,7	20/25/30/35/40/50/60/70/80/90/100	10	40,6	25,4	12	144,06
K0366.27816* **	78	16	19	23,9	13,7	25/30/35/40/50/60/70/80/90/100	14	45	28,2	16	257,18

Ball lock pins

with T-grip, self-locking





Material:
Grip thermoplastic.
Steel parts stainless steel 1.4305.

Version:
Grip black.
Steel parts bright.

Sample order:
K0792.204606050
(include length L e.g. 050 for L = 50 mm.)

Note:
Ball lock pins are used for quick and easy fastening and joining of parts and workpieces. The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. Release the button to lock the balls and secure the connection. An option for connecting a retaining cable is provided.

Shearing force double shear (F) = S · τ aB max.

Accessories:
Safety spiral cable K0367.10200
Retaining cable with loop K0367. .....
Key ring K0367.15/19/23
Bushing for ball lock pins K0724....

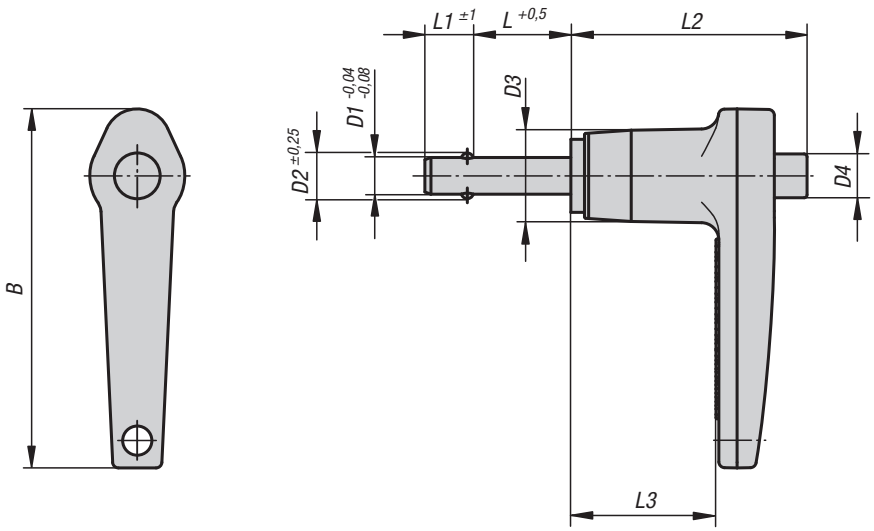
KIPP Ball lock pins with T-grip, self-locking

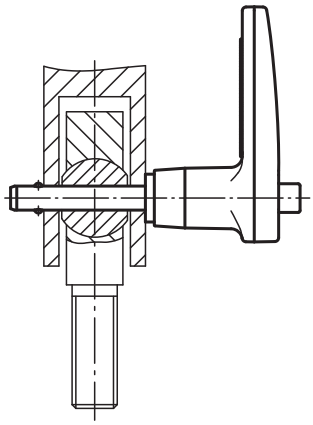
Order No.	B	D	D1	D2	D3	L	L1	L2	L3	Receiving hole H11	Shearing force double shear max.kN
K0792.204605* **	17,6	46	5	5,5	13,2	10/15/20/25/30	5,9	25	19,4	5	15
K0792.204606* **	17,6	46	6	6,85	13,2	10/15/20/25/30/35/40/45/50	6,8	25	19,4	6	22
K0792.206308* **	23	62,9	8	9,5	17,3	20/25/30/35/40/45/50	7,8	33	24,4	8	38
K0792.206310* **	23	62,9	10	12	17,3	20/25/30/35/40/45/50/60	8,9	33	24,4	10	60
K0792.208212* **	33	81,8	12	14,5	26,3	25/30/35/40/45/50/60/70/80	9,9	39,5	28,8	12	86
K0792.208216* **	33	81,8	16	19	26,3	30/35/40/45/50/60/70/80	13,1	39,5	28,8	16	153

Ball lock pins

with L-grip, self-locking







Material:
Pin stainless steel 1.4542.
Grip die-cast aluminium EN-AC 46000.
Push button aluminium EN-AW 2024 T4.
Balls stainless steel 1.4125.
Compression spring stainless steel.

Version:
All stainless steel parts passivated.
Pin hardened to min. 40 HRC.
Grip black anodized.
Push button blue anodized.
Balls hardened to 58 +4 HRC.

Sample order:
K0642.14405030
(include length L e.g. 030 for L = 30 mm)

Note:
Ball lock pins are used for quick and easy fastening and joining of parts and workpieces. The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. Release the button to lock the balls and secure the connection. The ball lock pins can be provided with a retaining cable if required.

The hardened, high-tensile stainless steel pin permits extreme loads with low wear.

Shearing force double shear (F) = S · τ aB max.

Accessories:
Safety spiral cable K0367.10200
Retaining cable with loop K0367. .....
Key ring K0367.15/19/23
Bushing for ball lock pins K0724....

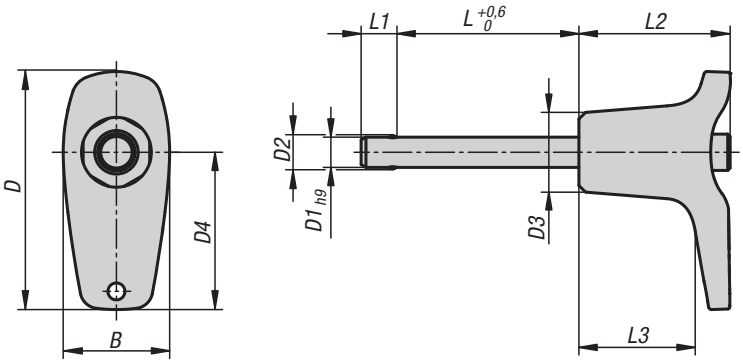
KIPP Ball lock pins with L-grip, self-locking

Order No.	B	D1	D2	D3	D4	L	L1	L2	L3	Receiving hole H11	Shearing force double shear max.kN
K0642.14405* **	46,7	5	5,54	11,9	5,8	10/15/20/25/30/35/40/50/60/70	6	30,7	19,3	5	24,4
K0642.14406* **	46,7	6	6,99	11,9	5,8	10/15/20/25/30/35/40/50/60/70/80	7	30,7	19,3	6	35,64
K0642.14408* **	46,7	8	9,42	11,9	5,8	10/15/20/25/30/35/40/50/60/70/80	8	30,7	19,3	8	63,8
K0642.15110* **	54,1	10	11,86	14,2	7,4	15/20/25/30/35/40/50/60/70/80/90/100	9	34,8	22,1	10	100,1
K0642.15712* **	60,2	12	14,45	18,3	10,7	20/25/30/35/40/50/60/70/80/90/100	10	40,6	25,4	12	144,06
K0642.16816* **	68,3	16	19	23,9	13,7	25/30/35/40/50/60/70/80/90/100	14	45	28,2	16	257,18

Ball lock pins

with L-grip, self-locking





Material:
Grip thermoplastic.
Steel parts stainless steel 1.4305.

Version:
Grip black.
Steel parts bright.

Sample order:
K0792.102606050
(include length L e.g. 050 for L = 50 mm.)

Note:
Ball lock pins are used for quick and easy fastening and joining of parts and workpieces. The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. Release the button to lock the balls and secure the connection. An option for connecting a retaining cable is provided.

Shearing force double shear (F) = S · τ aB max.

Accessories:
Safety spiral cable K0367.10200
Retaining cable with loop K0367. .....
Key ring K0367.15/19/23
Bushing for ball lock pins K0724....

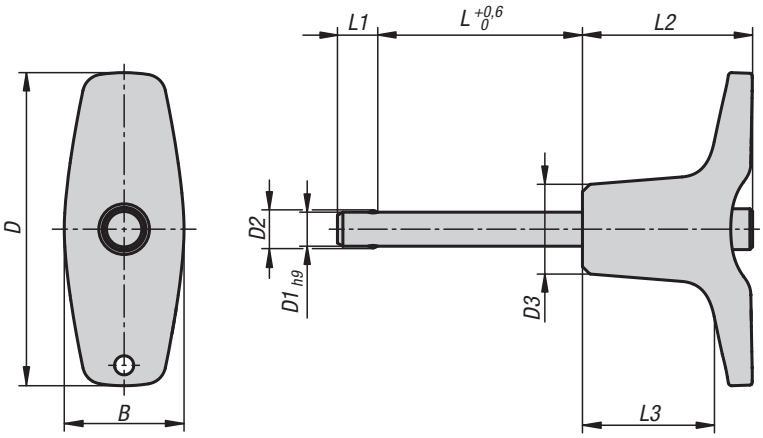
KIPP Ball lock pins with L-grip, self-locking

Order No.	B	D	D1	D2	D3	D4	L	L1	L2	L3	Receiving hole H11	Shearing force double shear max.kN
K0792.102605* **	17,6	39,3	5	5,5	13,2	26	10/15/20/25/30	5,9	25	19,2	5	15
K0792.102606* **	17,6	39,3	6	6,85	13,2	26	10/15/20/25/30/35/40/45/50	6,8	25	19,2	6	22
K0792.103508* **	23	52,2	8	9,5	17,3	35,4	20/25/30/35/40/45/50	7,8	33	24,2	8	38
K0792.103510* **	23	52,2	10	12	17,3	35,4	20/25/30/35/40/45/50/60	8,9	33	24,2	10	60
K0792.104712* **	33	70,2	12	14,5	26,3	47	25/30/35/40/45/50/60/70/80	9,9	39,5	28,4	12	86
K0792.104716* **	33	70,2	16	19	26,3	47	30/35/40/45/50/60/70/80	13,1	39,5	28,4	16	153

Ball lock pins

with T-grip, self-locking





Material:
Die-cast zinc.
Metal parts stainless steel 1.4305.

Version:
Grip black.
Steel parts bright.

Sample order:
K0793.204606050
(include length L e.g. 050 for L = 50 mm.)

Note:
Ball lock pins are used for quick and easy fastening and joining of parts and workpieces. The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. Release the button to lock the balls and secure the connection. An option for connecting a retaining cable is provided.

Shearing force double shear (F) = S · τ aB max.

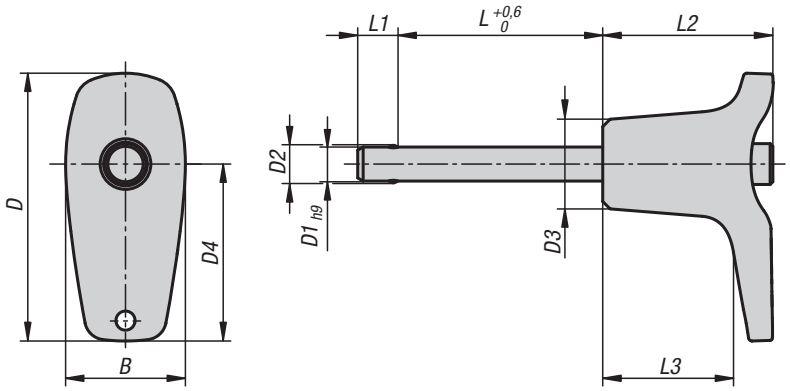
Accessories:
Safety spiral cable K0367.10200
Retaining cable with loop K0367. .....
Key ring K0367.15/19/23
Bushing for ball lock pins K0724....

KIPP Ball lock pins with T-grip, self-locking

Order No.	B	D	D1	D2	D3	L	L1	L2	L3	Receiving hole H11	Shearing force double shear max.kN
K0793.204605* **	17,6	46	5	5,5	13,2	10/15/20/25/30	5,9	25	19,4	5	15
K0793.204606* **	17,6	46	6	6,85	13,2	10/15/20/25/30/35/40/45/50	6,8	25	19,4	6	22
K0793.206308* **	23	62,9	8	9,5	17,3	20/25/30/35/40/45/50	7,8	33	24,4	8	38
K0793.206310* **	23	62,9	10	12	17,3	20/25/30/35/40/45/50/60	8,9	33	24,4	10	60
K0793.208212* **	33	81,8	12	14,5	26,3	25/30/35/40/45/50/60/70/80	9,9	39,5	28,8	12	86
K0793.208216* **	33	81,8	16	19	26,3	30/35/40/45/50/60/70/80	13,1	39,5	28,8	16	153

Ball lock pins

with L-grip, self-locking





Material:
Die-cast zinc.
Metal parts stainless steel 1.4305.

Version:
Grip black.
Steel parts bright.

Sample order:
K0793.102606050
(include length L e.g. 050 for L = 50 mm.)

Note:
Ball lock pins are used for quick and easy fastening and joining of parts and workpieces. The two balls are disengaged by pressing the push button and the pin can be slipped into holes in the workpieces. Release the button to lock the balls and secure the connection. An option for connecting a retaining cable is provided.

Shearing force double shear (F) = S · τ aB max.

Accessories:
Safety spiral cable K0367.10200
Retaining cable with loop K0367. .....
Key ring K0367.15/19/23
Bushing for ball lock pins K0724....

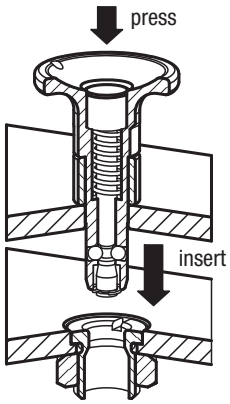
KIPP Ball lock pins with L-grip, self-locking

Order No.	B	D	D1	D2	D3	D4	L	L1	L2	L3	Receiving hole H11	Shearing force double shear max.kN
K0793.102605* **	17,6	39,3	5	5,5	13,2	26	10/15/20/25/30	5,9	25	19,2	5	15
K0793.102606* **	17,6	39,3	6	6,85	13,2	26	10/15/20/25/30/35/40/45/50	6,8	25	19,2	6	22
K0793.103508* **	23	52,2	8	9,5	17,3	35,4	20/25/30/35/40/45/50	7,8	33	24,2	8	38
K0793.103510* **	23	52,2	10	12	17,3	35,4	20/25/30/35/40/45/50/60	8,9	33	24,2	10	60
K0793.104712* **	33	70,2	12	14,5	26,3	47	25/30/35/40/45/50/60/70/80	9,9	39,5	28,4	12	86
K0793.104716* **	33	70,2	16	19	26,3	47	30/35/40/45/50/60/70/80	13,1	39,5	28,4	16	153

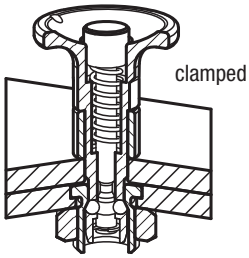
Technical information for ball lock pins K1063, K1064 and locating bushes K1065

Note:
These are designed to quickly clamp 2 plates.
The system can be used for changing mechanisms in assembly applications or for making other manual adjustments, such as conversions in automatic systems.

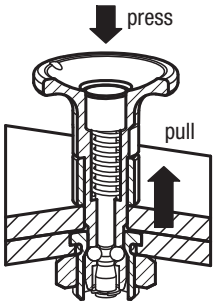
Repeat accuracy of ± 0.25 for screwed-in and pushed-in version.
The repeat accuracy can be increased with the aid of additional locating pins.



With the knob pressed down, insert the ball lock pin into the locating bush.



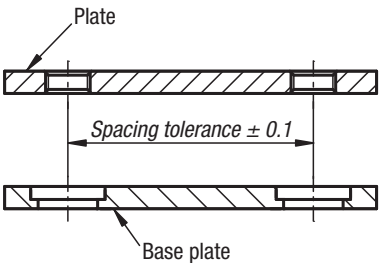
Release the knob to clamp the plates.



To remove, press the knob down and pull the ball lock pin out of the bush.

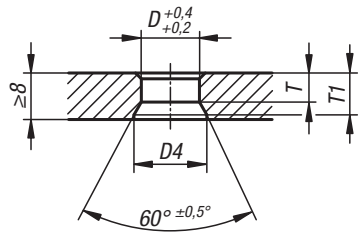
Assembly:
The mounting situation is customer specific. Plates of different thicknesses can be joined. The different mounting options form A to D are described on the product pages.

Recommended tolerances when using 2 items



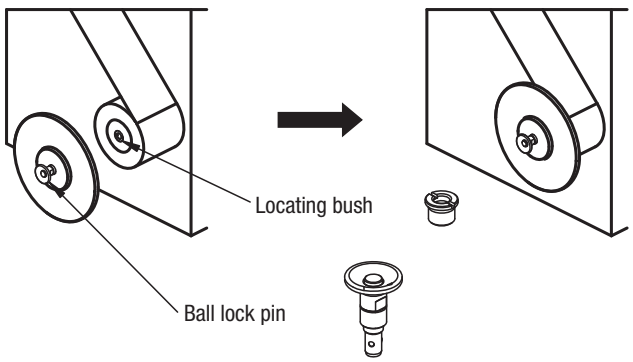
Application without locating bush
Installation dimensions

Attention:
The specified pullout forces only apply in conjunction with locating bush K1065.



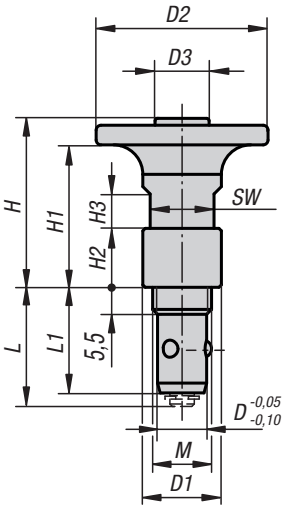
For ball lock pin D =	D	D4 min.	T	T1
6	6	12,5	4,9	~6,6
10	10	8	5	~7,2

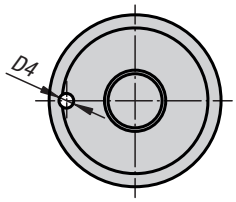
Application example:
Quick installation and removal of flange plates for paper rolls.



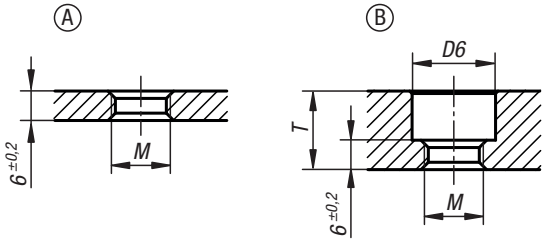
Ball lock pins



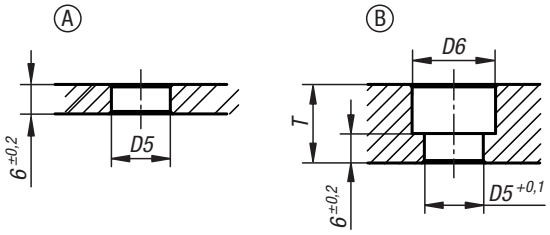




Screw-in ball lock pin



Push-in ball lock pin



Material:
Housing and push button steel.
Ball, spring and snap ring stainless steel.
O-ring FKM.

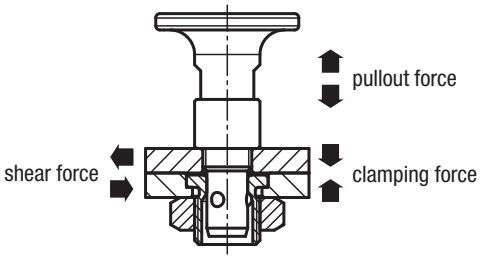
Version:
Housing nickel-plated.
Knob tempered and nickel-plated.
Ball tempered.

Sample order:
K1063.621

Note:
Installation dimensions for Form A for plate thickness 6 mm.
Installation dimensions for Form B for plate thickness 6 to 16 mm.

Attention:
The specified pullout forces only apply in conjunction with locating bush K1065.

Accessories:
Locating bush K1065.



KIPP Ball lock pin

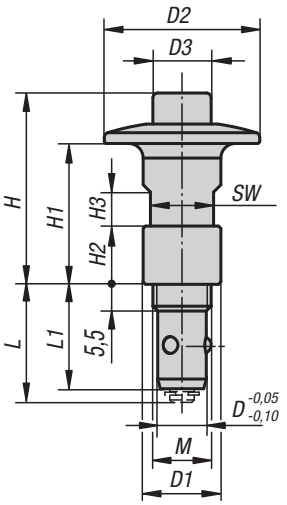
Order No.	D	D1	D2	D3	D4	M	L	L1	H	H1	H2	H3	SW	D5	D6	T max.
K1063.621	6	12	25	8	-	M8	21	19	22,2	18	6	5,5	10	8	13	10
K1063.1024	10	16	35	11	3	M12x1,5	23,5	21,5	34,4	29	12	7	13	12	17	16

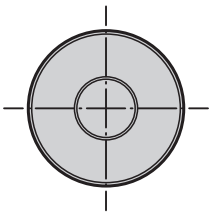
KIPP Ball lock pin, technical information

Order No.	Clamping force N	Shearing force kN	Pullout force kN	Temp. resistance up to
K1063.621	30	3	0,5	180 °C
K1063.1024	50	9	1,5	180 °C

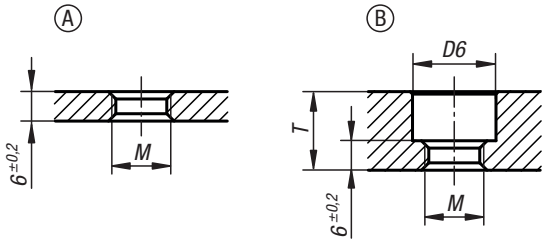
Ball lock pins stainless steel



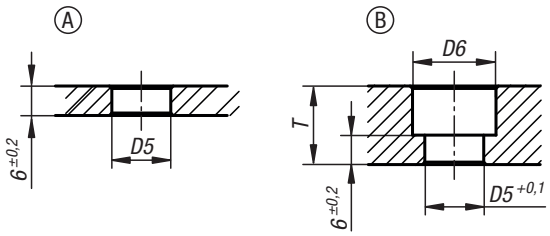




Screw-in ball lock pin



Push-in ball lock pin



Material:
Housing and push button stainless steel.
Ball, spring and snap ring stainless steel.
O-ring FKM.

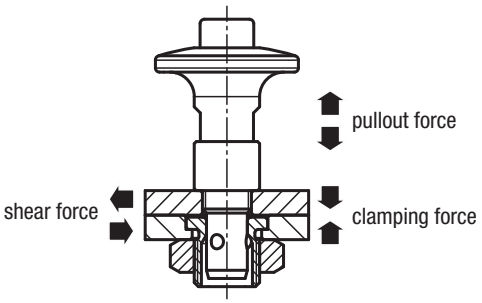
Version:
Housing bright.
Push button bright.
Ball tempered.

Sample order:
K1063.6211

Note:
Installation dimensions for Form A for plate thickness 6 mm.
Installation dimensions for Form B for plate thickness 6 to 16 mm.

Attention:
The specified pullout forces only apply in conjunction with locating bush K1065.

Accessories:
Locating bush K1065.



KIPP Ball lock pin stainless steel

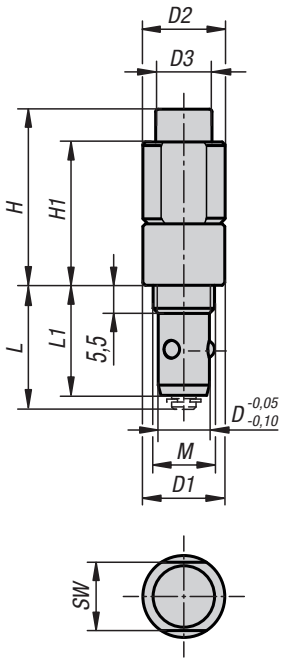
Order No.	D	D1	D2	D3	M	L	L1	H	H1	H2	H3	SW	D5	D6	T max.
K1063.6211	6	12	23	8	M8	21	19	25,8	18	6	5,5	10	8	13	10
K1063.10241	10	16	32	12	M12x1,5	23,5	21,5	39,4	29	12	7	13	12	17	16

KIPP Ball lock pin stainless steel, technical information

Order No.	Clamping force N	Shearing force kN	Pullout force kN	Temp. resistance up to
K1063.6211	30	3	0,5	180 °C
K1063.10241	50	9	1,5	180 °C

Ball lock pins without head





Material:
Housing and push button steel.
Ball, spring and snap ring stainless steel.
O-ring FKM.

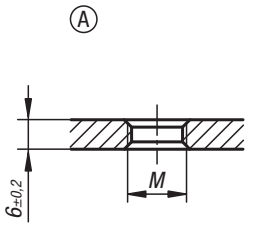
Version:
Housing nickel-plated.
Knob tempered and nickel-plated.
Ball tempered.

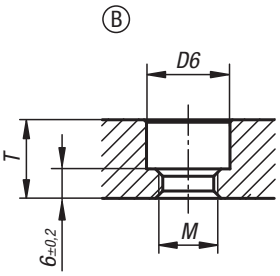
Sample order:
K1063.10242

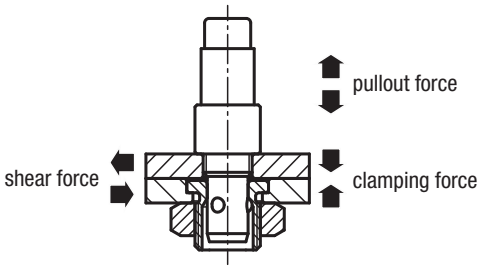
Note:
Installation dimensions for Form A for plate thickness 6 mm.
Installation dimensions for Form B for plate thickness 6 to 16 mm.

Attention:
The specified pullout forces only apply in conjunction with locating bush K1065.

Accessories:
Locating bush K1065.







KIPP Ball lock pin without head

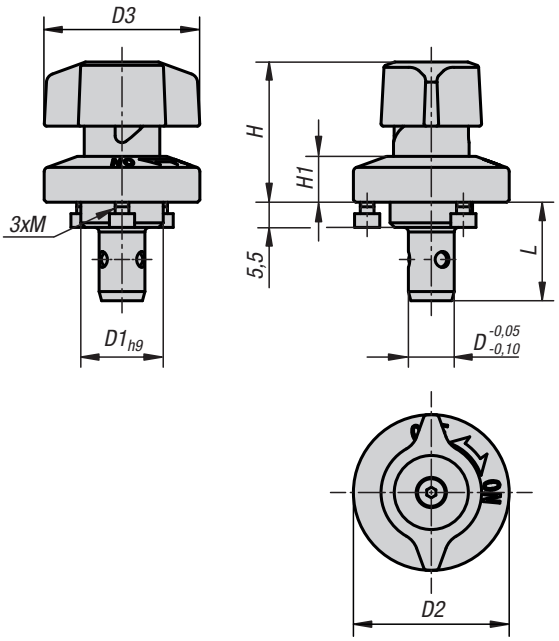
Order No.	D	D1	D2	D3	M	L	L1	H	H1	SW	D6	T max.
K1063.10242	10	16	16	11	M12x1,5	23,5	21,5	34,4	28	13	17	16

KIPP Ball lock pin without head, technical information

Order No.	Clamping force N	Shearing force kN	Pullout force kN	Temp. resistance up to
K1063.10242	50	9	1,5	180 °C

Ball lock pins

with twist knob





Material:
Housing and pin steel.
Knob thermoplastic PA (polyamide).
Ball and spring stainless steel.

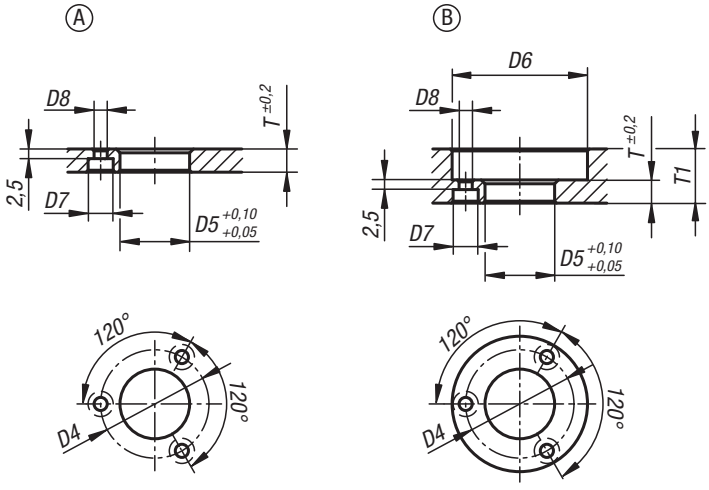
Version:
Housing nickel-plated.
Pin tempered and nickel-plated.
Knob reinforced fibreglass, black.
Ball tempered.

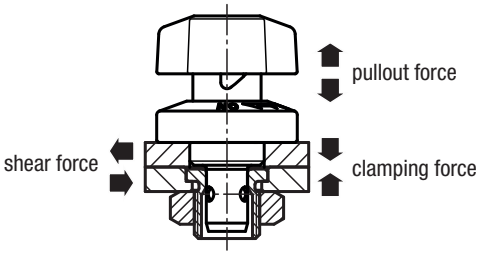
Sample order:
K1064.620

Note:
Installation dimensions for Form A for plate thickness 6 or 12 mm.
Installation dimensions for Form B for plate thickness up to 20 mm.
Includes M2 or M3 mounting screws.

Attention:
The specified pullout forces only apply in conjunction with locating bush K1065.

Accessories:
Locating bush K1065.





KIPP Ball lock pin with twist knob

Order No.	D	D1	D2	D3	D4	H	H1	L	M	D5	D6	D7	D8	T	T1
K1064.620	6	14	25	25	21	24,5	6,5	19,5	M2x3	14	26	4,4	2,4	6	6-10
K1064.1022	10	18	34	34	28	31	10	21,5	M3x4	18	35	6,5	3,4	6	6-14
K1064.1028	10	18	34	34	28	31	10	27,5	M3x4	18	35	6,5	3,4	12	12-20

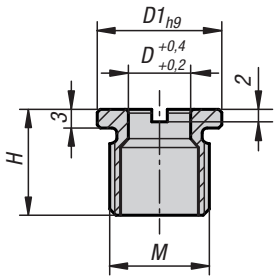
KIPP Ball lock pins with twist knob, technical information

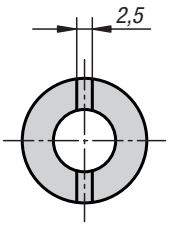
Order No.	Clamping force N	Shearing force kN	Pullout force kN	Temp. resistance up to
K1064.620	30	3	0,5	130 °C
K1064.1022	50	9	1,5	130 °C
K1064.1028	50	9	1,5	130 °C

Locating bushes

for ball lock pin







Material:
Steel or stainless steel

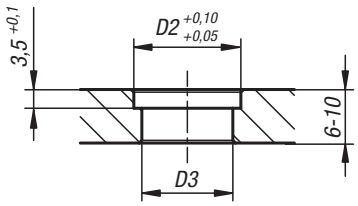
Version:
Steel nickel-plated.
Stainless steel bright.

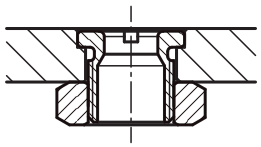
Sample order:
K1065.61

Note:
Mounting dimensions for Form A:
Mounting with nut, max. plate thickness 10 mm.
Mounting dimensions for Form B:
Screwed in, for plate thicknesses over 10 mm or in a blind hole.

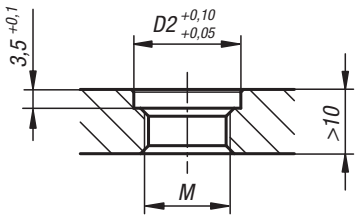
On request:
Suitable nuts and assembly tool.

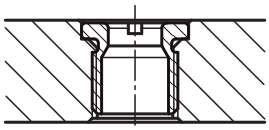
Ⓐ





Ⓑ





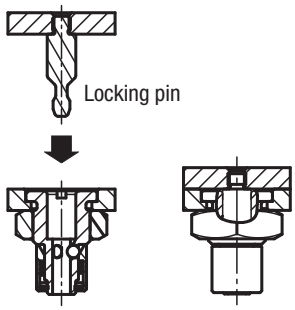
KIPP Locating bushes for ball lock pin

Order No.	Material	D	D1	M	H	D2	D3
K1065.6	Steel	6	16	M12x1,5	15	16	13
K1065.10	Steel	10	20	M16x1,5	17	20	17
K1065.61	Stainless steel	6	16	M12x1,5	15	16	13
K1065.101	Stainless steel	10	20	M16x1,5	17	20	17

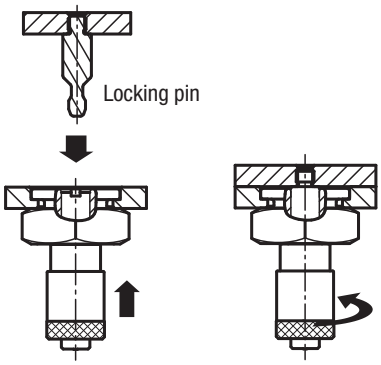
Technical information for ball lock bushes K1066 and K1067

Note:
These are used to hold panels or thin plates. The locking pin locks mechanically in the bush with 3 balls. The ball lock bush with rotary lock only releases the locking pin when the bush is manually rotated.
The repeat accuracy of ± 0.25 mm can be increased with the aid of additional locating pins.

Application:
Ball lock bushes and ball lock bushes with rotary lock.

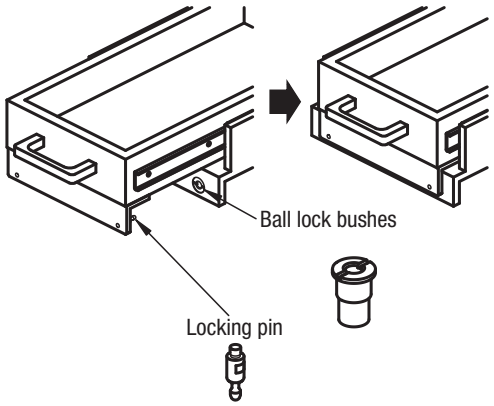


Ball lock bushes



Ball lock bushes with twist lock

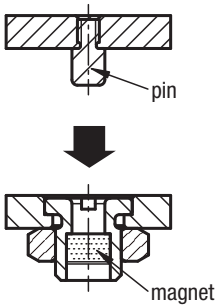
Application example:
End fixating of a sliding unit.

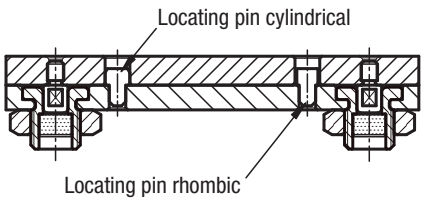


Technical information for magnetic bushes K1068 and K1069

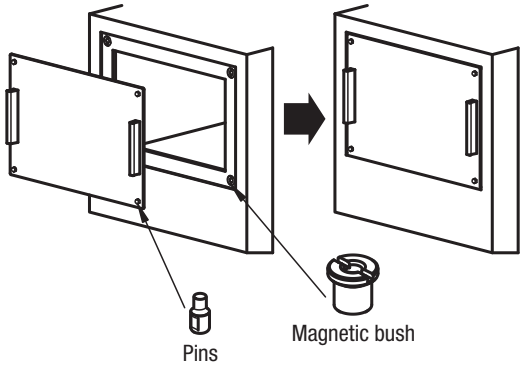
Note:
These are used to hold panels or thin plates. The pin is held in the bush housing by a magnet.
The repeat accuracy of ± 0.25 mm can be increased with the aid of additional locating pins.

Application:



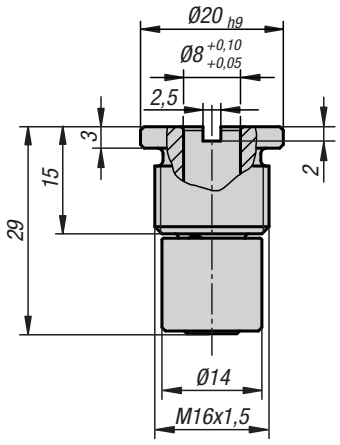


Application example:
Quick installation or removal of hatches



Ball lock bushes





Material:
Housing steel.
Balls and springs stainless steel.

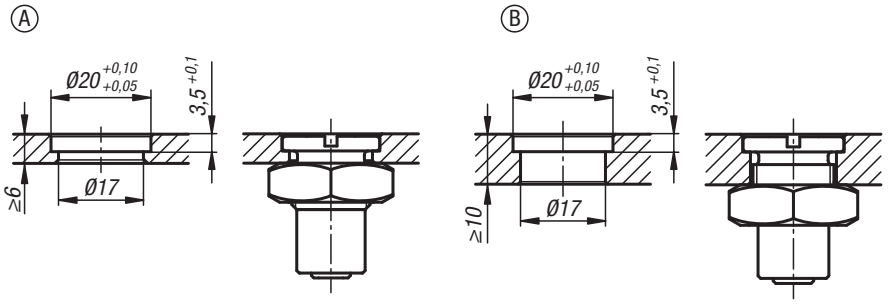
Version:
Housing nickel-plated.
Balls tempered.

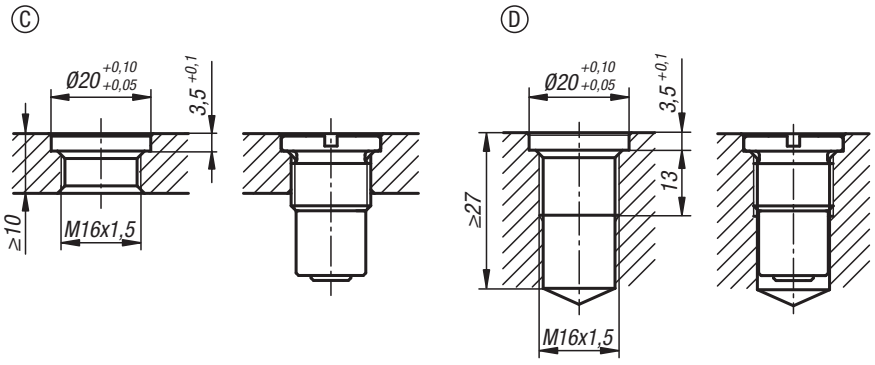
Sample order:
K1066.7

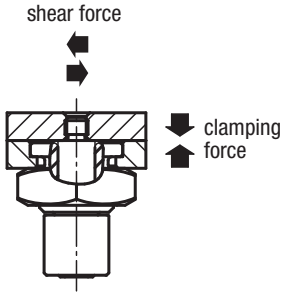
Note:
The 3 balls inside the bush hold the locking pin with the specified retaining force.
Installation dimensions for Form A: min. plate thickness 6 mm.
Installation dimensions for Form B: max. plate thickness 10 mm.
Installation dimensions for Form C: plate thickness > 10 mm.
Installation dimensions for Form D: blind hole.

On request:
Suitable nuts.

Accessories:
Locking pin K1067.





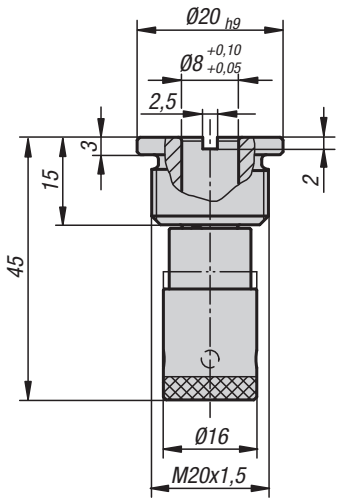


KIPP Ball lock bushes

Order No.	Clamping force F1 N	Shearing force kN	Temp. resistance up to
K1066.7	7	1,8	180 °C
K1066.15	15	1,8	180 °C

Ball lock bushes

with twist lock





Material:
Housing and locking elements steel.
Balls and springs stainless steel.

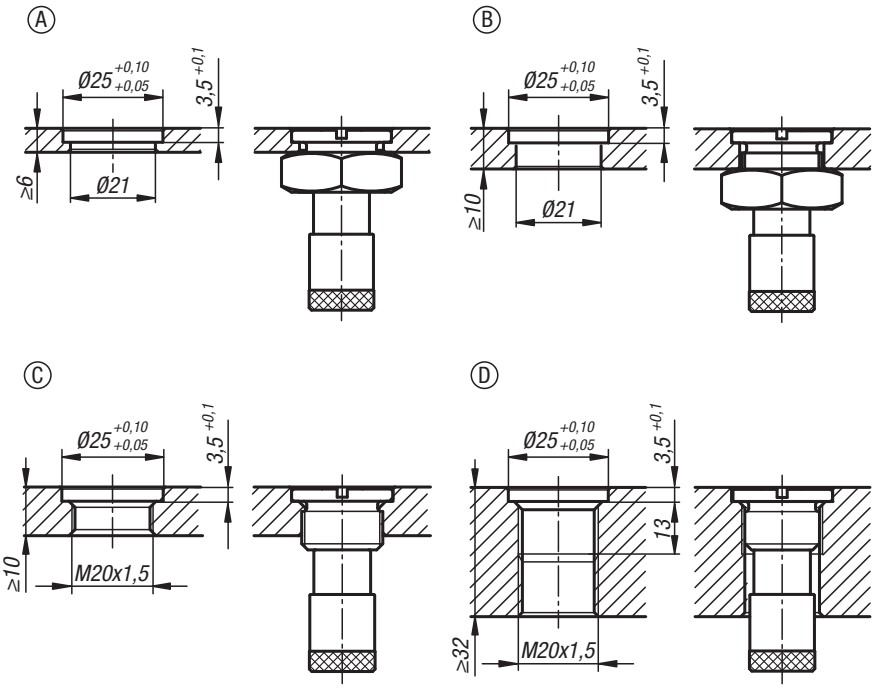
Version:
Housing and locking element nickel-plated.
Balls tempered.

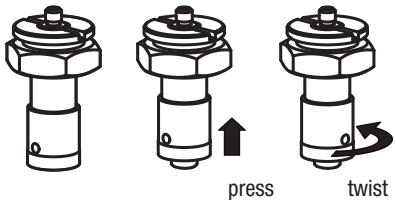
Sample order:
K1066.71

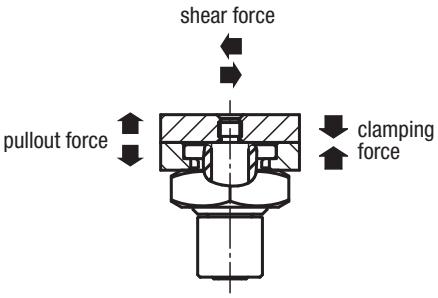
Note:
The 3 balls inside the bush hold the locking pin with the specified retaining force.
The element is secured or released by twisting the bottom part of the bush.
Installation dimensions for Form A: min. plate thickness 6 mm.
Installation dimensions for Form B: max. plate thickness 10 mm.
Installation dimensions for Form C: plate thickness > 10 mm.
Installation dimensions for Form D: blind hole.

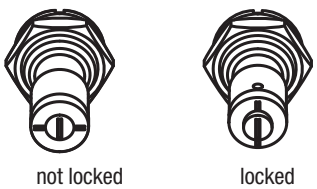
On request:
Suitable nuts.

Accessories:
Locking pin K1067.









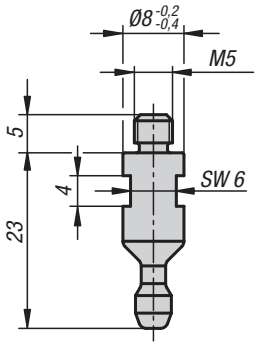
KIPP Ball lock bushes with twist lock

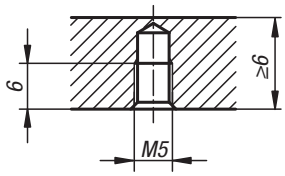
Order No.	Clamping force N	Shearing force kN	pullout force F kN	Temp. resistance up to
K1066.71	7	1,8	1,8	180 °C
K1066.151	15	1,8	1,8	180 °C

Locking pin

for ball lock bushes





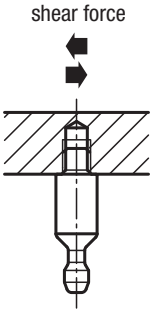


Material:
Steel.

Version:
Bright.

Sample order:
K1067.8

Note:
Repeat accuracy ± 0.25.
The repeat accuracy can be increased with the aid of locating pins.

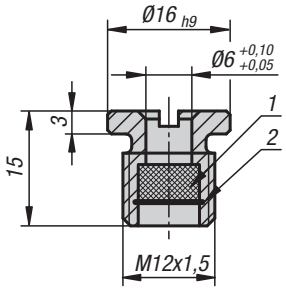


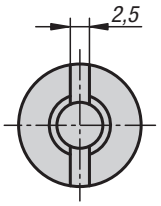
KIPP Locking pin for ball lock bushes

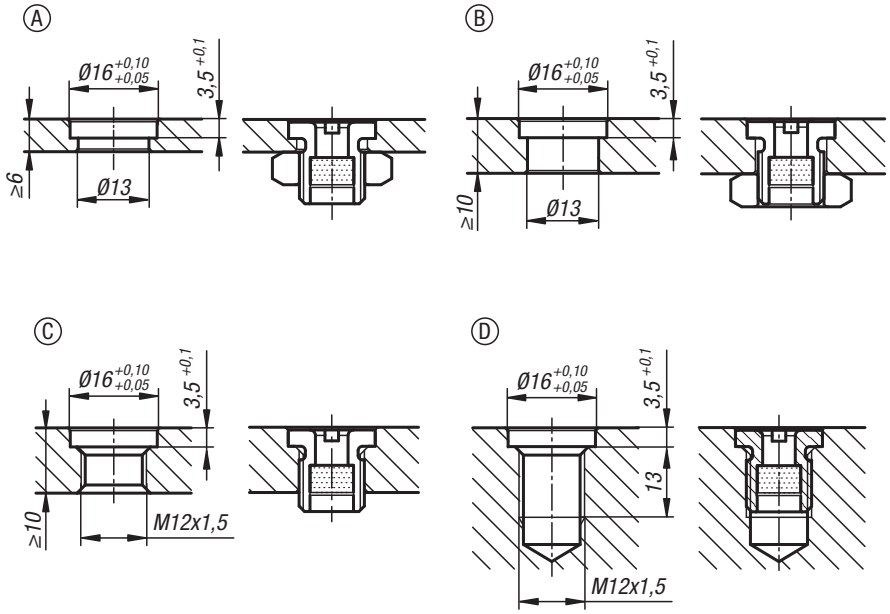
Order No.	Shearing force kN	Temp. resistance up to
K1067.8	1,8	180 °C

Magnetic bush









Material:
Housing stainless steel.
Magnet neodymium.

Version:
Housing bright.

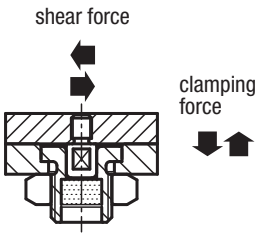
Sample order:
K1068.6

Note:
A magnet in the bush attracts the pin (K1069) and holds it with the specified retaining force.
Repeat accuracy ± 0.25. The repeat accuracy can be increased with the aid of additional locating pins.
Installation dimensions for Form A:
min. plate thickness 6 mm.
Installation dimensions for Form B:
max. plate thickness 10 mm.
Installation dimensions for Form C:
plate thickness > 10 mm.
Installation dimensions for Form D:
blind hole.

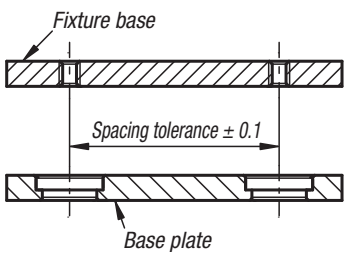
On request:
Suitable nuts.

Accessories:
Pin K1069

Drawing reference:
1) magnet
2) circlip



Recommended installation tolerances:



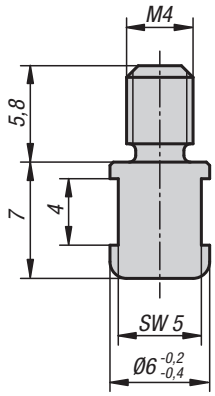
KIPP Magnetic bushes

Order No.	Clamping force N	Shearing force kN	Temp. resistance up to
K1068.6	7	0,8	80 °C

Pin

for magnetic bush



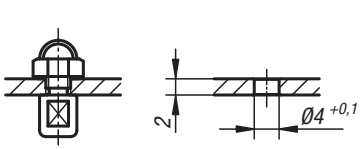


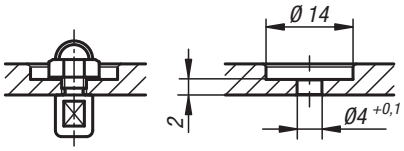
Material:
Steel.

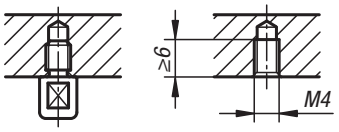
Version:
Bright.

Sample order:
K1069.6

Note:
Accessory to K1068.
The pin is attracted to the magnetic bush K1068.
Mounting option with nut (not included) or by screwing directly into the workpiece.



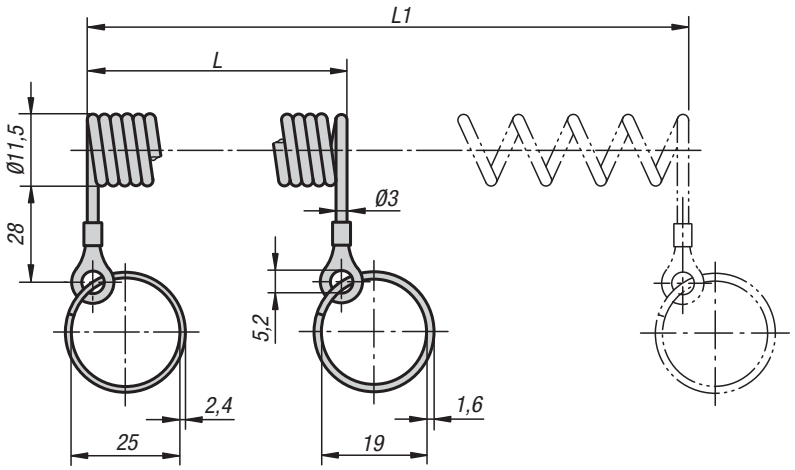




KIPP Pin for magnetic bush

Order No.	Shear force kN
K1069.6	0,9

Safety spiral cables





Material:
Spiral cable PUR.
Eye copper or stainless steel.
Key ring steel or stainless steel.

Version:
Spiral cable black.
Eye, brass galvanized - stainless steel bright.
Key ring, steel chromed - stainless steel bright.

Sample order:
K0367.10200

Note:
Elastic spiral cable to secure equipment parts. Very good reset force, robust and wear-resistant.

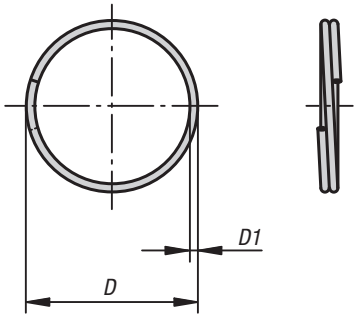
KIPP Safety spiral cable

Order No.	Component material	L	L1
K0367.10100	Steel	100	500
K0367.10200	Steel	200	1000
K0367.20100	Stainless steel	100	500
K0367.20200	Stainless steel	200	1000

K0367

Key rings





Material:
Stainless steel 1.4310.

Version:
Bright.

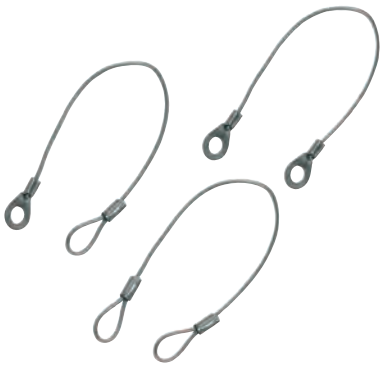
Sample order:
K0367.23

Note:
Suitable for retaining cable with loop K0367, ball lock pins K0363, K0364, K0641, K0366, K0642, K0790, K0791 locking pins K0365 and indexing plungers K0342, K0635, K0636.

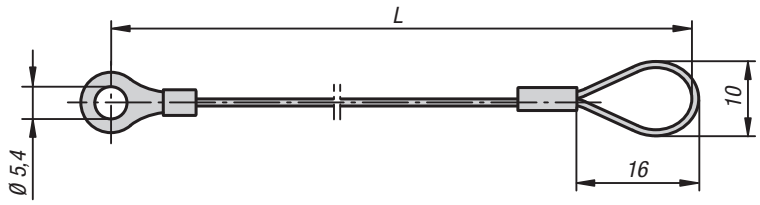
KIPP Key rings

Order No.	D	D1
K0367.15	15	1
K0367.19	19	1
K0367.23	23	1,2
K0367.28	28	1,7

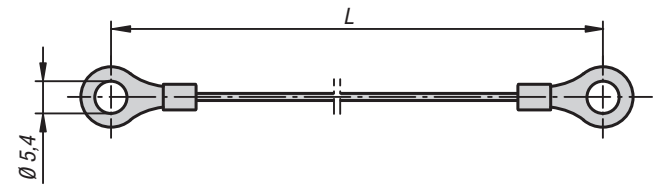
Retaining cables



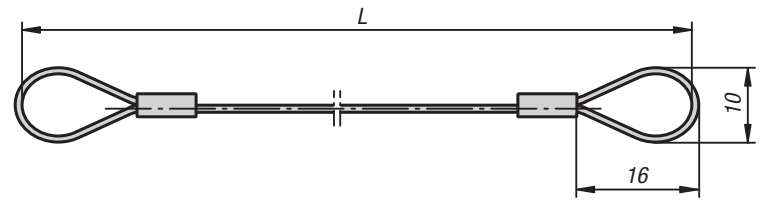
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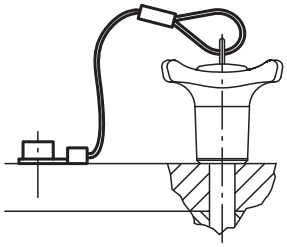


Material:
Cable stainless steel.
Clamp and crimp terminal aluminium.

Version:
Cable plastic coated.

Sample order:
K0367.0200

Note:
With the retaining cable and key ring (K0367) the ball lock pins (K0363, K0364, K0641, K0366, K0642, K0790, K0791) can be secured so that they cannot be lost. An M5 screw is used to secure the retaining cable. Application temperature: +80 °C.



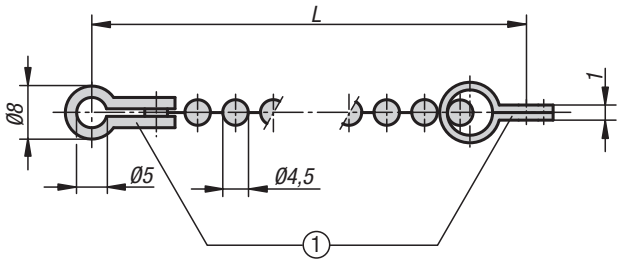
KIPP Retaining cables

Order No.	Form	L
K0367.0150	A	150
K0367.0200	A	200
K0367.0300	A	300
K0367.0500	A	500
K0367.1150	B	150
K0367.1200	B	200
K0367.1300	B	300
K0367.1500	B	500
K0367.2150	C	150
K0367.2200	C	200
K0367.2300	C	300
K0367.2500	C	500

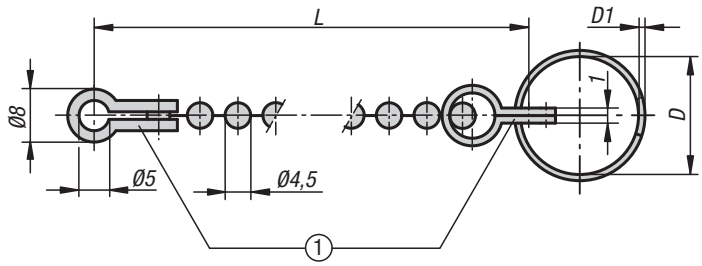
Ball chains



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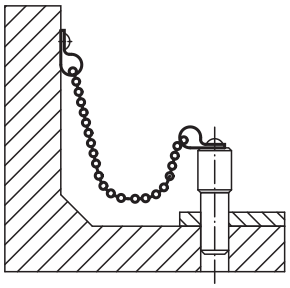
Material:
A: Chain stainless steel.
B: Chain stainless steel, key ring stainless steel.

Sample order:
K1125.115X160 (include length L)

Note:
If no length is specified 1000 mm will be supplied.

Drawing reference:
1) same parts

Form A: ball chain, single
Form B: ball chain with key ring



KIPP Form A, ball chain single

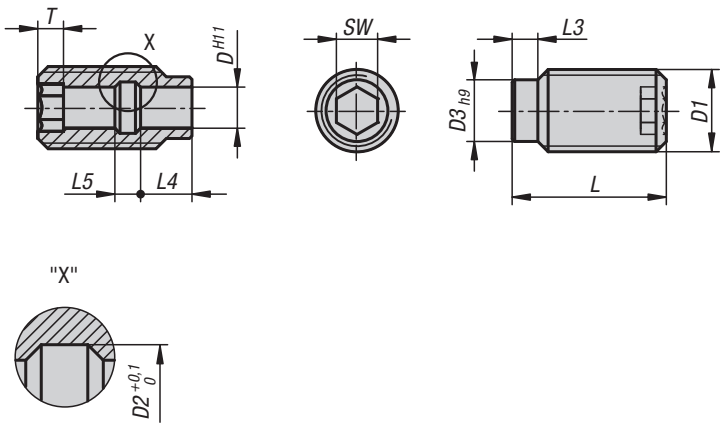
Order No.	Form	Version	Main material	L
K1125.01X	A	single	stainless steel	160/320/500/1000

KIPP Form B, ball chain with keyring

Order No.	Form	Version	Main material	L	D	D1
K1125.115X	B	with key ring	stainless steel	160/320/500/1000	15	1
K1125.119X	B	with key ring	stainless steel	160/320/500/1000	19	1
K1125.123X	B	with key ring	stainless steel	160/320/500/1000	23	1,2
K1125.128X	B	with key ring	stainless steel	160/320/500/1000	28	1,7

Bushing for ball lock pins





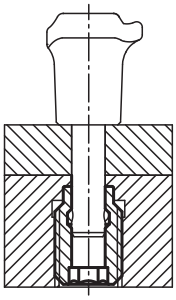
Material:
Stainless steel 1.4305.

Version:
Steel parts bright.

Sample order:
K0724.11224

Note:
Bushing for ball lock pins are ideal for the easy and quick positioning of ball lock pins and locking pins.

Advantages:
- centred by the centring collar.
- easy and reliable screwing in.
- can be screwed into various materials.
- usable both sides



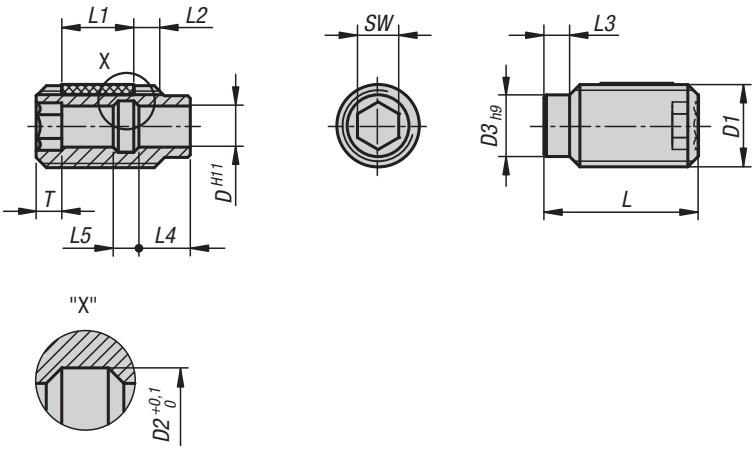
KIPP Bushing for ball lock pins

Order No.	D	D1	D2	D3	L	L3	L4	L5	SW	T
K0724.10512	5	M12	6	9	25	4	7	3	5	4
K0724.10616	6	M16	7,5	12	30	5	10	5	6	5
K0724.10816	8	M16	10	12	30	5	10	5	8	5
K0724.11024	10	M24	13	18	35	6	8	7	10	6
K0724.11224	12	M24	15	18	35	6	8	7	12	6
K0724.11630	16	M30	20	24	40	8	11	9	16	7

Bushing for ball lock pins

with LONG-LOK thread lock





Material:
Stainless steel 1.4305

LONG-LOK thread lock nylon.

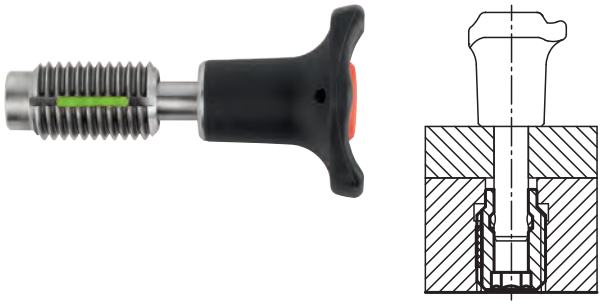
Version:
Steel parts bright.

Sample order:
K0724.112241

Note:
Bushing for ball lock pins are ideal for the easy and quick positioning of ball lock pins and locking pins.

Advantages:
- centred by the centring collar.
- easy and reliable screwing in.
- can be screwed into various materials.
- usable both sides
- the LONG-LOK thread lock allows the depth to be exactly matched to existing components, no locknut is required.

Drawing reference:
L2 = approx. 2x thread pitch



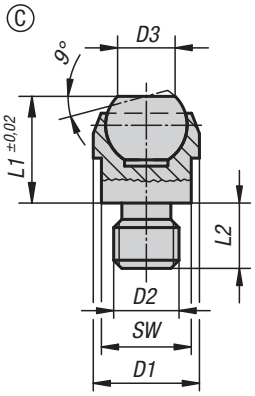
KIPP Bushing for ball locking pins, with LONG-LOK thread lock

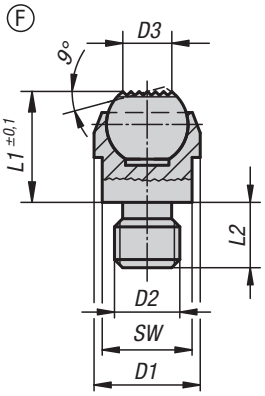
Order No.	D	D1	D2	D3	L	L1	L3	L4	L5	SW	T
K0724.105121	5	M12	6	9	25	10	4	7	3	5	4
K0724.106161	6	M16	7,5	12	30	14	5	10	5	6	5
K0724.108161	8	M16	10	12	30	14	5	10	5	8	5
K0724.110241	10	M24	13	18	35	14	6	8	7	10	6
K0724.112241	12	M24	15	18	35	14	6	8	7	12	6
K0724.116301	16	M30	20	24	40	14	8	11	9	16	7

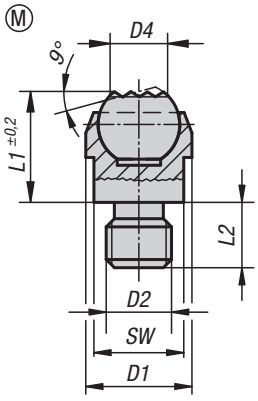
Support elements, locating elements, stop elements



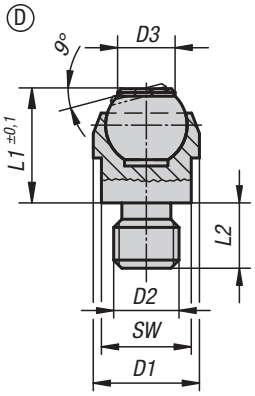
Self-aligning pads

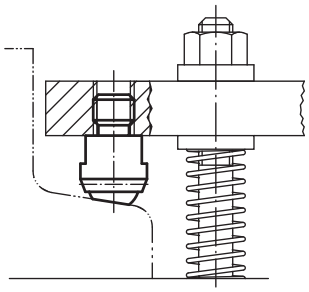


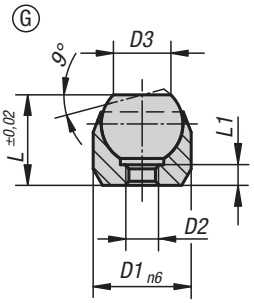


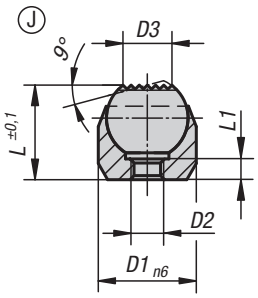


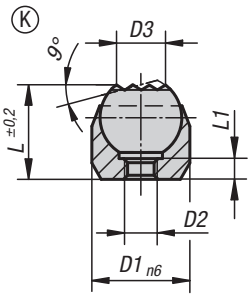


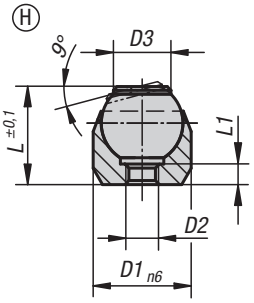


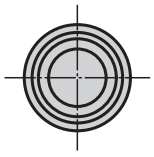


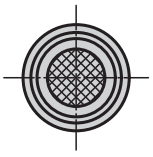


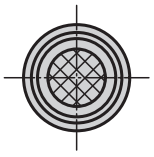












Material:
Body carbon steel.
Ball, ball bearing steel 1.2067.
Form D: Ball with POM insert.
Form H: Ball with POM insert.
Form K: Ball with carbide insert.
Form M has a carbide ball.

Version:
Body tempered and phosphated.
Ball hardened.
Form M ball nickel plated.

Sample order:
K0282.120

Note:
Self-aligning pads serve as stops, supports and thrust pads in fixture constructions.

Ball secured against rotation.

* Valid only if the minimum bore depth is observed.

Drawing reference:
Form C: with male thread, flattened ball, smooth.
Form D: with male thread, flattened ball, with POM insert.
Form F: with male thread, flattened ball, diamond grip.
Form M: with male thread, flattened ball, diamond grip.
Form G: press fit, flattened ball, smooth.
Form H: press fit, flattened ball, with POM insert.
Form J: press fit, flattened ball, diamond grip.
Form K: press fit, flattened ball, with carbide insert.

KIPP Form C, with male thread, flattened ball, plain

Order No.	Form	D1	D2	D3	L1	L2	Ball-Ø	SW	Load rating max. kN (static load only)
K0282.108	C	13	M8	7,2	13	8	10	11	10
K0282.110	C	20	M10	10,5	18	10	16	17	25
K0282.112	C	20	M12	10,5	18	12	16	17	25
K0282.116	C	30	M16	20	27	16	25	27	90
K0282.120	C	50	M20	34,5	35	20	40	41	165

Self-aligning pads

KIPP Form D, with male thread, flattened ball, with POM insert

Order No.	Form	D1	D2	D3	L1	L2	Ball-Ø	SW	Load rating max. kN (static load only)
K0282.208	D	13	M8	7,9	13	8	10	11	10
K0282.210	D	20	M10	12,7	18	10	16	17	25
K0282.212	D	20	M12	12,7	18	12	16	17	25

KIPP Form F, male thread, flattened ball, diamond grip

Order No.	Form	D1	D2	D3	L1	L2	Ball-Ø	SW	Load rating max. kN (static load only)
K0282.308	F	13	M8	7,2	13	8	10	11	10
K0282.310	F	20	M10	10,5	18	10	16	17	25
K0282.312	F	20	M12	10,5	18	12	16	17	25
K0282.316	F	30	M16	20	27	16	25	27	90
K0282.320	F	50	M20	34,5	35	20	40	41	165

KIPP Form M, male thread, flattened ball, diamond grip

Order No.	Form	D1	D2	D4	L1	L2	SW	Ball-Ø	Load rating max. kN (static load only)
K0282.908	M	13	M8	7,7	13,3	8	11	10	10
K0282.910	M	20	M10	12	18	10	17	16	25
K0282.912	M	20	M12	12	18	12	17	16	25

KIPP Form G, press fit, flattened ball, flat face

Order No.	Form	D1	D2	D3	L	L1	Ball-Ø	Receiving hole	Load rating max. kN (static load only)
K0282.403	G	12	M3	7,2	11	3,5	10	ø 12 H7 x 6 min.	10*
K0282.404	G	18	M4	10,5	17	4,4	16	ø 18 H7 x 8 min.	25*
K0282.405	G	28	M5	20	25	6,3	25	ø 28 H7 x 13 min.	90*

KIPP Form H, press fit, flattened ball, with POM insert

Order No.	Form	D1	D2	D3	L	L1	Ball-Ø	Receiving hole	Load rating max. kN (static load only)
K0282.503	H	12	M3	7,9	11	3	10	ø 12 H7 x 6 min.	10*
K0282.504	H	18	M4	12,7	17	4	16	ø 18 H7 x 8 min.	25*
K0282.505	H	28	M5	19,05	25	6	25	ø 28 H7X13 min.	90*

KIPP Form J, press fit, flattened ball, diamond grip

Order No.	Form	D1	D2	D3	L	L1	Ball-Ø	Receiving hole	Load rating max. kN (static load only)
K0282.603	J	12	M3	7,2	11	3,5	10	ø 12 H7 x 6 min.	10*
K0282.604	J	18	M4	10,5	17	4,4	16	ø 18 H7 x 8 min.	25*
K0282.605	J	28	M5	20	25	6,3	25	ø 28 H7 x 13 min.	90*

KIPP Form K, press fit, flattened ball, with carbide insert

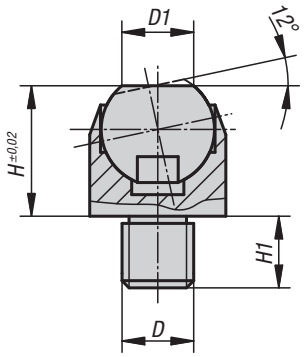
Order No.	Form	D1	D2	D3	L	L1	Ball-Ø	Receiving hole	Load rating max. kN (static load only)
K0282.803	K	12	M3	7,9	11	3	10	ø 12 H7 x 6 min.	10*
K0282.804	K	18	M4	12,7	17	4	16	ø 18 H7 x 8 min.	25*
K0282.805	K	28	M5	19,05	25	6	25	ø 28 H7X13 min.	90*

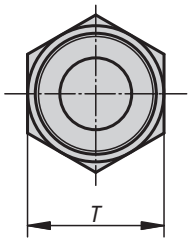
Self-aligning pads

swivel angle 12°

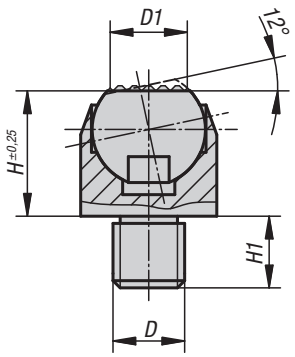


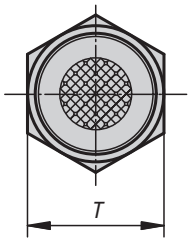
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Material:
Body carbon steel.
Ball, ball-bearing steel 1.3505.

Version:
Body tempered.
Ball hardened (50 - 55 HRC).

Sample order:
K0302.106

Note:
Self-aligning pads serve as stops, supports and thrust pads in fixture construction. They can also be installed in existing clamping devices, e.g. arness clamps.

Ball is secured against rotation.

Drawing reference:
Form C: male thread, smooth flattened ball
Form F: male thread, serrated flattened ball

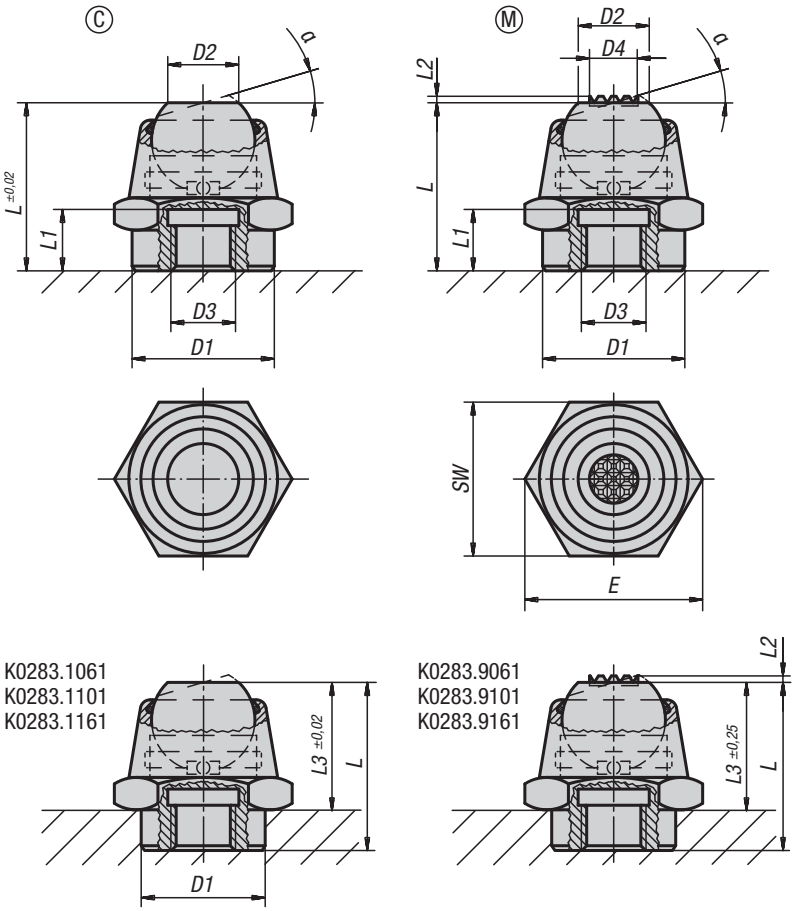
KIPP Self-aligning pads swivel angle 12°

Order No. Form C	Order No. Form F	D	D1	H	H1	Ball-Ø	T	Load rating max. kN (static load only)
K0302.106	**K0302.306**	M6	6,7	13	7	10	13	10
K0302.108	**K0302.308**	M8	6,7	13	8	10	13	10
K0302.110	**K0302.310**	M10	10	18	10	16	19	25
K0302.112	**K0302.312**	M12	10	18	12	16	19	25
K0302.116	**K0302.316**	M16	20	27	16	24	30	90
K0302.120	**K0302.320**	M20	20	27	20	24	30	90

Self-aligning pads

swivel angle 14° and 20°





Material:
Body steel.
Ball rust and acid resistant steel.
Form M with carbide insert.

Version:
Body black oxidised.
Ball bright.

Sample order:
K0283.108

Note:
Self-aligning pads are used to support and clamp unmachined and machined workpieces. They also serve as stops, supports and thrust pads in fixture and toolmaking.
Grub screws or threaded studs can be screwed and glued into thread D3 making a self-aligning pad with external thread.

Ball secured against rotation.

Advantages:
- Self-aligning pads can be swiveled.
- High load forces can be absorbed.
- The built-in o-ring keeps dirt and foreign particles out, which in turn guarantees reliable operation.

KIPP Form C, flattened ball, flat face

Order No.	Form	α	D1	D2	D3	L	L1	L3	E	SW	Ball-Ø	Load rating max. kN (static load only)
K0283.1061	C	14°	12	7	M6	17,5	6	12,5	19,6	17	10	14
K0283.106	C	14°	16	7	M6	17,5	6	-	19,6	17	10	14
K0283.108	C	20°	22	11	M8	26	9	-	27,7	24	16	34
K0283.1101	C	20°	18	11	M10	26	9	20	27,7	24	16	34
K0283.110	C	20°	22	11	M10	26	9	-	27,7	24	16	34
K0283.112	C	20°	22	11	M12	26	9	-	27,7	24	16	34
K0283.1161	C	20°	26	18	M16	40	15	30	41,6	36	25	90
K0283.116	C	20°	34	18	M16	40	15	-	41,6	36	25	90
K0283.120	C	20°	34	18	M20	40	15	-	41,6	36	25	90

KIPP Form M, flattened ball, carbide steel diamond grip

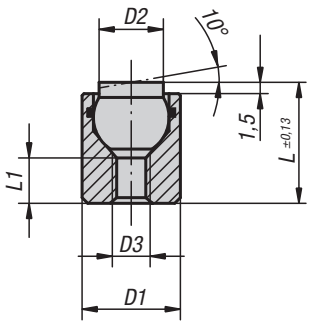
Order No.	Form	α	D1	D2	D3	D4	L	L1	L2	L3	E	SW	Ball-Ø	Load rating max. kN (static load only)
K0283.9061	M	14°	12	7	M6	5	17,5	6	0,6	12,5	19,6	17	10	14
K0283.906	M	14°	16	7	M6	5	17,5	6	0,6	-	19,6	17	10	14
K0283.908	M	20°	22	11	M8	7,5	26	9	0,8	-	27,7	24	16	34
K0283.9101	M	20°	18	11	M10	7,5	26	9	0,8	20	27,7	24	16	34
K0283.910	M	20°	22	11	M10	7,5	26	9	0,8	-	27,7	24	16	34
K0283.912	M	20°	22	11	M12	7,5	26	9	0,8	-	27,7	24	16	34
K0283.9161	M	20°	26	18	M16	13	40	15	0,9	30	41,6	36	25	90
K0283.916	M	20°	34	18	M16	13	40	15	0,9	-	41,6	36	25	90
K0283.920	M	20°	34	18	M20	13	40	15	0,9	-	41,6	36	25	90

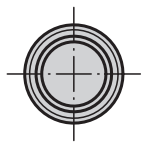
Self-aligning pads

with o-ring

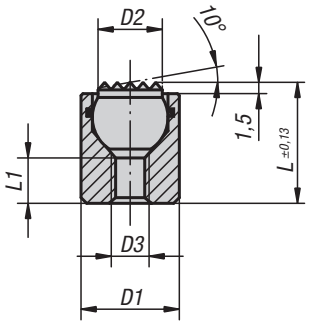


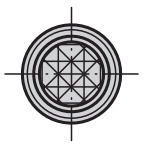
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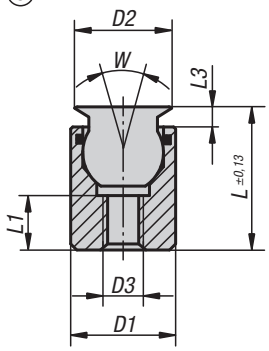


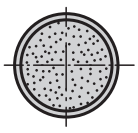
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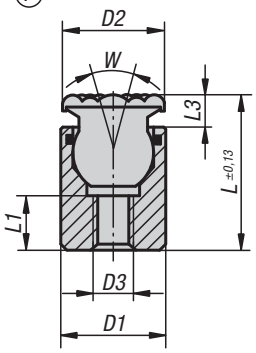


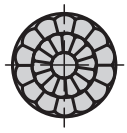
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Material:
Body carbon steel.
Ball:
Form C, F tool steel.
Form K POM.
Form O stainless steel diamond impregnated.
Form P stainless steel with polyurethane face.

Version:
Body tempered, black oxidised.
Ball:
Form C, F hardened, black oxidised.
Form K POM ball, white.
Form O surface comparable to 100 grade abrasive grit.
Form P polyurethane, hardness 60 Shore.

Sample order:
K0284.704X012

Note:
Self-aligning pads are used to support and clamp unmachined and machined workpieces.
They also serve as stops, supports and thrust pads in fixtures and toolmaking.

Ball secured against rotation.

Form O: The abrasive diamond surface is fused firmly to the ball. It is ideally suited to supporting smooth or slippery applications with a minimum of clamping pressure. This allows the diamond particles to get a firm grip on a very small area with minimum damage to the surface. The diamond surface offers excellent wear resistance.

Form P: The polyurethane surface is permanently vulcanised on the ball. It is abrasion-resistant and does not discolour. Offers optimum protection against damage to delicate surfaces. The pearl-like surface gives a firm grip and allows air to escape so as to prevent any suction effect between the contact surface and the self-aligning pads.

Advantages:
The built-in O-ring holds the ball in place and keeps dirt and foreign particles out ensuring smooth and even movement.

Self-aligning pads

with o-ring

KIPP Form C, flattened steel ball, smooth

Order No.	Form	D1	D2	D3	L	L1	Ball-Ø	Load rating max. kN (static load only)
K0284.104X012	C	10	6	M4	12	4,5	7	12
K0284.104X025	C	10	6	M4	25	12	7	12
K0284.105X016	C	13	8,5	M5	16	5	10	20
K0284.105X025	C	13	8,5	M5	25	12	10	20

KIPP Form F, flattened steel ball, diamond grip

Order No.	Form	D1	D2	D3	L	L1	Ball-Ø	Load rating max. kN (static load only)
K0284.304X012	F	10	6	M4	12	4,5	7	12
K0284.304X025	F	10	6	M4	25	12	7	12
K0284.305X016	F	13	8,5	M5	16	5	10	20
K0284.305X025	F	13	8,5	M5	25	12	10	20

KIPP Form K, flattened POM ball, smooth

Order No.	Form	D1	D2	D3	L	L1	Ball-Ø	Load rating max. kN (static load only)
K0284.704X012	K	10	6	M4	12	4,5	7	2
K0284.704X025	K	10	6	M4	25	12	7	2
K0284.705X016	K	13	8,5	M5	16	5	10	4
K0284.705X025	K	13	8,5	M5	25	12	10	4

KIPP Form O, stainless-steel ball, diamond impregnated

Order No.	Form	D1	D2	D3	L	L1	L3	W	Ball-Ø	Load rating max. kN (static load only)
K0284.504X012	O	10	8	M4	12,5	3,5	2	28	7	11,5
K0284.504X025	O	10	8	M4	25,5	9	2	28	7	11,5
K0284.505X017	O	13	11	M5	17,5	6,5	3	28	10	19,8
K0284.505X026	O	13	11	M5	26,5	9	3	28	10	19,8
K0284.506X021	O	17	14	M6	21	7,5	3	28	13	27,4
K0284.508X024	O	19	19	M8	24	8,5	4	24	15	38,6
K0284.510X028	O	24	21	M10	28	9	4	24	20	58,3

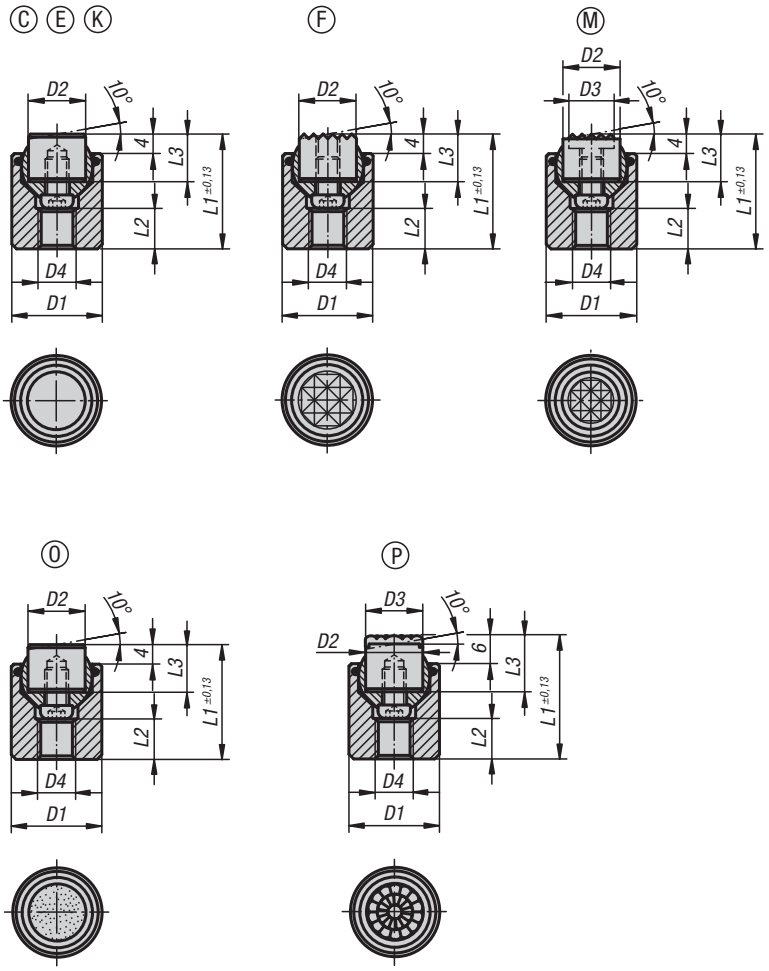
KIPP Form P, stainless-steel ball with polyurethane face

Order No.	Form	D1	D2	D3	L	L1	L3	W	Ball-Ø
K0284.604X014	P	10	10	M4	14,5	3,5	4	28	7
K0284.604X027	P	10	10	M4	27,5	9	4	28	7
K0284.605X019	P	13	13	M5	19,5	6,5	5	28	10
K0284.605X028	P	13	13	M5	28,5	9	5	28	10
K0284.606X023	P	17	16	M6	23	7,5	5	28	13
K0284.608X026	P	19	21	M8	26	8,5	6	24	15
K0284.610X030	P	24	23	M10	30	9	6	24	20

Self-aligning pads

with o-ring and exchangeable inserts





Material:
Body carbon steel.
Ball rust and acid resistant steel.
Inserts:
Form C, F, M tool steel
Form K POM
Form E stainless steel.
Form O stainless steel diamond impregnated.
Form P stainless steel with polyurethane surface.

Version:
Body tempered, black oxidised.
Ball hardened, bright.
Inserts:
Form C, F hardened, black oxidised.
Form M with carbide serrations, black oxidised.
Form K white.
Form E hardened, bright.
Form O diamond impregnated surface comparable to 100 grade abrasive grit.
Form P polyurethane surface, hardness 60 Shore.

Sample order:
K0285.736X036

Note:
Self-aligning pads are used to support and clamp unmachined and machined workpieces.
In addition, they serve as stops, supports and thrust pads in fixtures and toolmaking.
The ball can be removed from the housing by applying light pressure to the socket head screw.

Ball secured against rotation.

Advantages:
Highly cost-effective as inserts can be exchanged.
The built-in O-ring holds the ball in place and keeps dirt and foreign particles out, ensuring uniform movement.

KIPP Self-aligning pads with o-ring and exchangeable inserts

Order No.	Form	D1	D2	D4	L1	L2	L3	Ball-Ø	Load rating max. kN (static load only)	Order No. steel insert
K0285.117X022	C	17	10	M6	22	7	10	13	28	K0385.10108
K0285.119X024	C	19	12	M8	24	8	10	15	39	K0385.12108
K0285.124X028	C	24	16	M10	28	8	10	20	58	K0385.16108
K0285.130X030	C	30	20	M12	30	9	10	23	95	K0385.20108
K0285.136X036	C	36	25	M12	36	11	10	28	136	K0385.25108

Order No.	Form	D1	D2	D4	L1	L2	L3	Ball-Ø	Load rating max. kN (static load only)	Order No. stainless steel insert
K0285.217X022	E	17	10	M6	22	7	10	13	28	K0385.10102
K0285.219X024	E	19	12	M8	24	8	10	15	39	K0385.12102
K0285.224X028	E	24	16	M10	28	8	10	20	58	K0385.16102
K0285.230X030	E	30	20	M12	30	9	10	23	95	K0385.20102
K0285.236X036	E	36	25	M12	36	11	10	28	136	K0385.25102

Order No.	Form	D1	D2	D4	L1	L2	L3	Ball-Ø	Load rating max. kN (static load only)	Order No. gripper
K0285.317X022	F	17	10	M6	22	7	10	13	28	K0385.1010
K0285.319X024	F	19	12	M8	24	8	10	15	39	K0385.1210
K0285.324X028	F	24	16	M10	28	8	10	20	58	K0385.1610
K0285.330X030	F	30	20	M12	30	9	10	23	95	K0385.2010
K0285.336X036	F	36	25	M12	36	11	10	28	136	K0385.2510

Order No.	Form	D1	D2	D4	L1	L2	L3	Ball-Ø	Load rating max. kN (static load only)	Order No. POM insert
K0285.717X022	K	17	10	M6	22	7	10	13	4	K0385.10109
K0285.719X024	K	19	12	M8	24	8	10	15	7	K0385.12109
K0285.724X028	K	24	16	M10	28	8	10	20	14	K0385.16109
K0285.730X030	K	30	20	M12	30	9	10	23	27	K0385.20109
K0285.736X036	K	36	25	M12	36	11	10	28	47	K0385.25109

Order No.	Form	D1	D2	D3	D4	L1	L2	L3	Ball-Ø	Load rating max. kN (static load only)	Order No. gripper
K0285.917X022	M	17	10	7,9	M6	22	7	10	13	28	K0385.10107
K0285.919X024	M	19	12	9,5	M8	24	8	10	15	39	K0385.12107
K0285.924X028	M	24	16	12,7	M10	28	8	10	20	58	K0385.16107
K0285.930X030	M	30	20	15,9	M12	30	9	10	23	95	K0385.20107
K0285.936X036	M	36	25	19	M12	36	11	10	28	136	K0385.25107

Order No.	Form	D1	D2	D4	L1	L2	L3	Ball-Ø	Load rating max. kN (static load only)	Order No. stainless steel insert, diamond surface
K0285.517X022	O	17	10	M6	22	7	10	13	28	K0385.10105
K0285.519X024	O	19	12	M8	24	8	10	15	39	K0385.12105
K0285.524X028	O	24	16	M10	28	8	10	20	58	K0385.16105
K0285.530X030	O	30	20	M12	30	9	10	23	95	K0385.20105
K0285.536X036	O	36	25	M12	36	11	10	28	136	K0385.25105

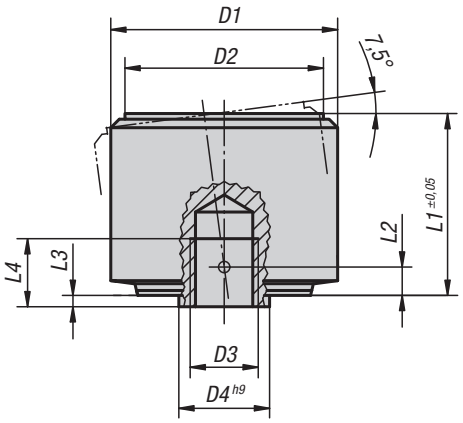
Order No.	Form	D1	D2	D3	D4	L1	L2	L3	Ball-Ø	Order No. stainless steel insert, polyurethane surface
K0285.617X024	P	17	10	10	M6	24	7	12	13	K0385.10126
K0285.619X026	P	19	12	13	M8	26	8	12	15	K0385.12126
K0285.624X030	P	24	16	16	M10	30	8	12	20	K0385.16126
K0285.630X032	P	30	20	21	M12	32	9	12	23	K0385.20126
K0285.636X038	P	36	25	27	M12	38	11	12	28	K0385.25126

Self-aligning pads

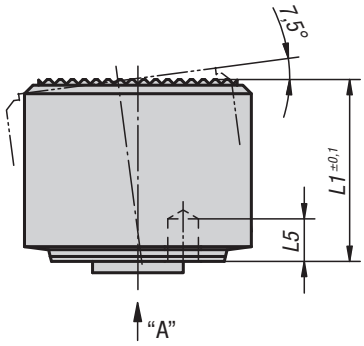
self-righting

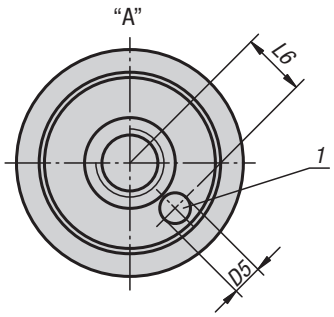


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Material:
Carbon steel.

Version:
Hardened, black oxidised.

Sample order:
K0286.105

Note:
Self-aligning pads are used to support and clamp unmachined and machined workpieces.
They also serve as stops, supports and thrust pads in fixtures and toolmaking.

Advantages:
– The built-in O-ring prevents dirt and foreign particles from entering.
– The clamping surface swivels back automatically after clamping.
– High load rating and small size.

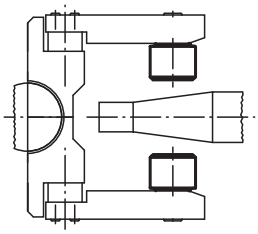
Drawing reference:
Form C: smooth face
Form F: serrated face

1) Hole for pin as a rotation lock

Self-aligning pads

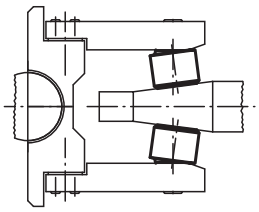
self-righting

1. bring gripper into position



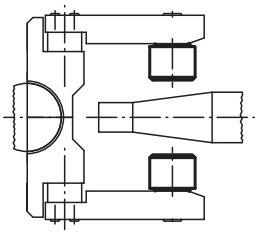
zero-point position of self-aligning pads

2. grip workpiece



self-aligning pads adapt to workpiece contour

3. open gripper



self-aligning pads swivel back automatically

KIPP Self-aligning pads self-righting

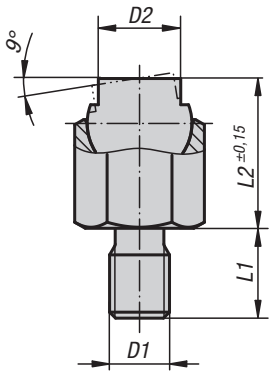
Order No.	Form	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5	L6	Load rating max. kN (static load only)
K0286.105	C	18	15	M5	7	1,8	14	2,1	0,8	5	3	4,6	30
K0286.106	C	22	18	M6	8	2,8	16,5	2,5	1	6	4	5,6	50
K0286.108	C	28	23	M8	11	3,3	21,5	3,4	1,3	8	5	7,5	90
K0286.110	C	34	29	M10	13	4,4	27	4,2	1,6	10	6	9,2	140
K0286.112	C	40	35	M12	16	5,4	32	5	2	12	8	11,3	220
K0286.305	F	18	15	M5	7	1,8	14	2,1	0,8	5	3	4,6	30
K0286.306	F	22	18	M6	8	2,8	16,5	2,5	1	6	4	5,6	50
K0286.308	F	28	23	M8	11	3,3	21,5	3,4	1,3	8	5	7,5	90
K0286.310	F	34	29	M10	13	4,4	27	4,2	1,6	10	6	9,2	140
K0286.312	F	40	35	M12	16	5,4	32	5	2	12	8	11,3	220

Self-aligning pads

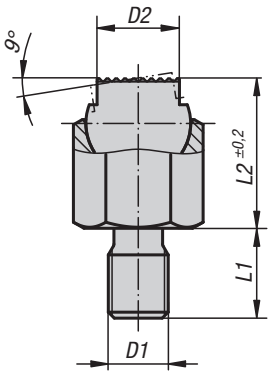
self-righting



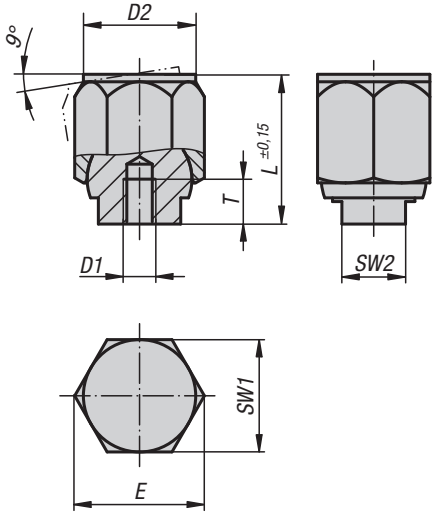
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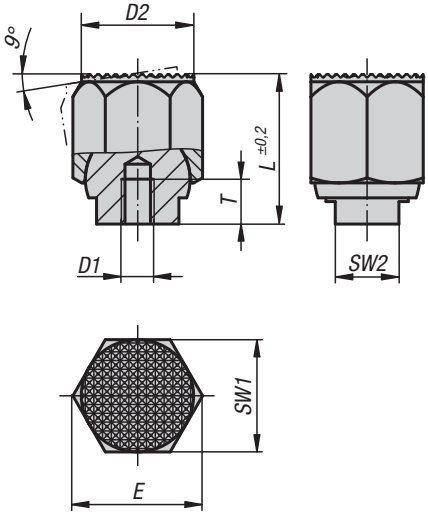
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Material:
Form C and F:
Ball steel, ball seat high-carbon steel.
Form G and J:
Ball high-carbon steel, ball seat steel.

Version:
Form C and F:
Ball hardened and black oxidised, ball seat phosphated.
Form G and J:
Ball phosphated, ball seat hardened and black oxidised.

Sample order:
K1164.106

Note:
The self-aligning pads serve as stops, rests and thrust pads in fixture construction.
The seating face returns to the start position when the load is removed.

Ball secured against rotation.

Drawing reference:
Form C: male thread, flattened ball, smooth
Form F: male thread, flattened ball, diamond grip
Form G: press fit, flattened ball, smooth
Form J: press fit, flattened ball, diamond grip

Self-aligning pads

self-righting

KIPP Self-aligning pads, self-righting

Order No.	Form	D1	D2	L1	L2	E	SW1	Ball-Ø	Load rating max. kN (static load only)
K1164.106	C	M6	7	9	13	11,5	10	9	8
K1164.108	C	M8	9,5	12	18	15	13	12	16
K1164.110	C	M10	14	15	25	21,9	19	17	32
K1164.112	C	M12	20	18	36	31,2	27	25	64
K1164.116	C	M16	22	24	40	34,6	30	28	90

Order No.	Form	D1	D2	L1	L2	E	SW1	Ball-Ø	Load rating max. kN (static load only)
K1164.306	F	M6	7	9	13	11,5	10	9	8
K1164.308	F	M8	9,5	12	18	15	13	12	16
K1164.310	F	M10	14	15	25	21,9	19	17	32
K1164.312	F	M12	20	18	36	31,2	27	25	64
K1164.316	F	M16	22	24	40	34,6	30	28	90

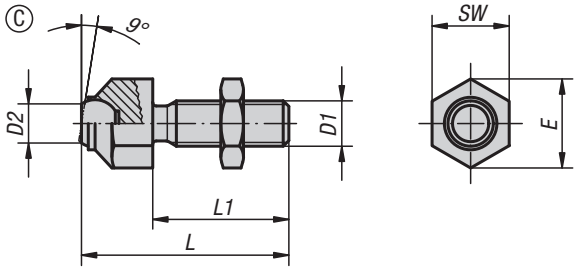
Order No.	Form	D1	D2	L	E	SW1	SW2	Ball-Ø	Load rating max. kN (static load only)
K1164.403	G	M3	9	13	11,5	10	6	9	8
K1164.404	G	M4	12	18	15	13	8	12	16
K1164.405	G	M5	18	25	21,9	19	10	17	32
K1164.406	G	M6	26	36	31,2	27	16	25	64
K1164.408	G	M8	30	40	34,6	30	17	28	90

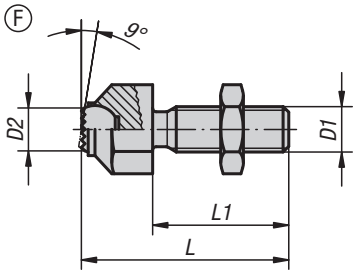
Order No.	Form	D1	D2	L	E	SW1	SW2	Ball-Ø	Load rating max. kN (static load only)
K1164.603	J	M3	9	13	11,5	10	6	9	8
K1164.604	J	M4	12	18	15	13	8	12	16
K1164.605	J	M5	18	25	21,9	19	10	17	32
K1164.606	J	M6	26	36	31,2	27	16	25	64
K1164.608	J	M8	30	40	34,6	30	17	28	90

Self-aligning pads

with locknut







Material:
Steel or stainless steel

Version:
Steel version:
Housing tempered and manganese phosphated.
Nut black oxidised. .

Stainless steel version:
Housing tempered and electropolished.
Nut bright.

Sample order:
K0287.316

Note:
Ball secured against rotation.

Self-aligning pads

with locknut

KIPP Self-aligning pads adjustable

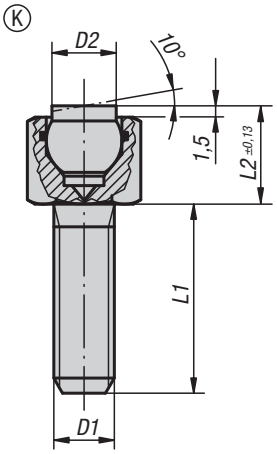
Order No.	Main material	Form	D1	D2	L	L1	E	SW	Ball-Ø	Load rating max. kN (static load only)
K0287.108	Steel	C	M8	5,8	36,6	25	14,5	13	8,5	8
K0287.110	Steel	C	M10	8,6	45,7	30	19	17	12	8
K0287.112	Steel	C	M12	8,6	50,7	35	19	17	12	15
K0287.116	Steel	C	M16	10,5	60,7	40	27	24	16	25
K0287.120	Steel	C	M20	20	77,3	50	33	30	25	90
K0287.1081	Stainless steel	C	M8	5,8	36,6	25	14,5	13	8,5	8
K0287.1101	Stainless steel	C	M10	8,6	45,7	30	19	17	12	8
K0287.1121	Stainless steel	C	M12	8,6	50,7	35	19	17	12	15
K0287.1161	Stainless steel	C	M16	10,5	60,7	40	27	24	16	25
K0287.1201	Stainless steel	C	M20	20	77,3	50	33	30	25	90
K0287.308	Steel	F	M8	5,8	36,6	25	14,5	13	8,5	8
K0287.310	Steel	F	M10	8,6	45,7	30	19	17	12	8
K0287.312	Steel	F	M12	8,6	50,7	35	19	17	12	15
K0287.316	Steel	F	M16	10,5	60,7	40	27	24	16	25
K0287.320	Steel	F	M20	20	77,3	50	33	30	25	90
K0287.3081	Stainless steel	F	M8	5,8	36,6	25	14,5	13	8,5	8
K0287.3101	Stainless steel	F	M10	8,6	45,7	30	19	17	12	8
K0287.3121	Stainless steel	F	M12	8,6	50,7	35	19	17	12	15
K0287.3161	Stainless steel	F	M16	10,5	60,7	40	27	24	16	25
K0287.3201	Stainless steel	F	M20	20	77,3	50	33	30	25	90

Self-aligning pads

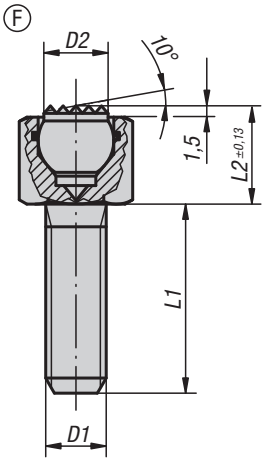
male thread, with O-ring



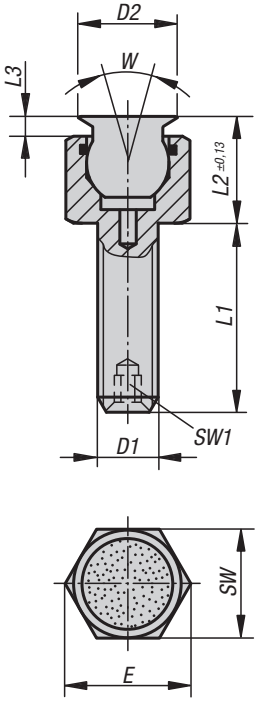
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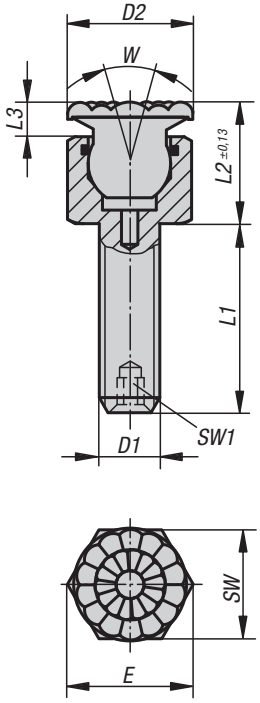
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Material:
Body carbon steel.
Ball:
Form C, F, tool steel.
Form K POM.
Form O stainless steel diamond impregnated.
Form P stainless steel with polyurethane surface.

Version:
Body tempered, black oxidised.
Ball:
Form C, F hardened, black oxidised.
Form K POM ball white.
Form O surface comparable to 100 grade abrasive grit.
Form P polyurethane hardness 60 Shore.

Sample order:
K0288.506X012
(include length L1)

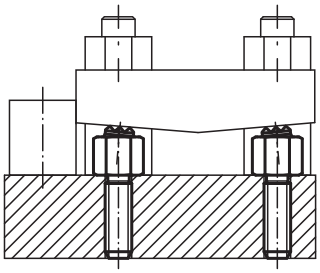
Note:
Self-aligning pads are used to support and clamp unmachined and machined workpieces.
They also serve as stops, supports and thrust pads in fixtures and toolmaking.

Ball secured against rotation.

Form O: The abrasive diamond surface is bonded firmly to the ball. It is ideally suited to supporting smooth or slippery applications with a minimum of clamping pressure. This allows the diamond particles to get a firm grip on a very small area with minimum damage to the surface.
The diamond surface offers excellent wear resistance.

Form P: The polyurethane surface is vulcanised firmly to the ball. It is abrasion-resistant and does not discolour.
It offers optimum protection against damage to delicate surfaces. The pearl-like surface gives a firm grip and allows air to escape so as to prevent any suction effect between the contact surface and the self-aligning pads.

Advantages:
The built-in O-ring holds the ball in place and keeps dirt and foreign particles out, ensuring uniform movement.



Self-aligning pads

male thread, with O-ring

KIPP Form C, flattened steel ball, smooth

Order No.	Form	D1	D2	L1	L2	E	SW	Ball-Ø	Load rating max. kN (static load only)
K0288.106X012	C	M6	6	12	9,5	11,5	10	7	9
K0288.106X025	C	M6	6	25	9,5	11,5	10	7	9
K0288.106X040	C	M6	6	40	9,5	11,5	10	7	9
K0288.108X012	C	M8	8,5	12	13	15	13	10	15
K0288.108X025	C	M8	8,5	25	13	15	13	10	15
K0288.108X040	C	M8	8,5	40	13	15	13	10	15

KIPP Form F, flattened steel ball, diamond grip

Order No.	Form	D1	D2	L1	L2	E	SW	Ball-Ø	Load rating max. kN (static load only)
K0288.306X012	F	M6	6	12	9,5	11,5	10	7	9
K0288.306X025	F	M6	6	25	9,5	11,5	10	7	9
K0288.306X040	F	M6	6	40	9,5	11,5	10	7	9
K0288.308X012	F	M8	8,5	12	13	15	13	10	15
K0288.308X025	F	M8	8,5	25	13	15	13	10	15
K0288.308X040	F	M8	8,5	40	13	15	13	10	15

KIPP Form K, flattened POM ball, smooth

Order No.	Form	D1	D2	L1	L2	E	SW	Ball-Ø	Load rating max. kN (static load only)
K0288.706X012	K	M6	6	12	9,5	11,5	10	7	2
K0288.706X025	K	M6	6	25	9,5	11,5	10	7	2
K0288.706X040	K	M6	6	40	9,5	11,5	10	7	2
K0288.708X012	K	M8	8,5	12	13	15	13	10	4
K0288.708X025	K	M8	8,5	25	13	15	13	10	4
K0288.708X040	K	M8	8,5	40	13	15	13	10	4

KIPP Form O, stainless-steel ball, diamond impregnated

Order No.	Form	D1	D2	L1	L2	L3	E	SW	SW1	W	Ball-Ø	Load rating max. kN (static load only)
K0288.506X	O	M6	8	12/25/40	10	2	11,5	10	-	28	7	9,2
K0288.508X	O	M8	11	12/25/40	14,5	3	15	13	-	28	10	15,5
K0288.510X	O	M10	14	15/30/50	16	3	19,6	17	3	28	13	18,8
K0288.512X	O	M12	19	20/40/60	19	4	21,9	19	5	24	15	29,8
K0288.516X	O	M16	21	25/50/80	23	4	27,7	24	6	24	20	50,3

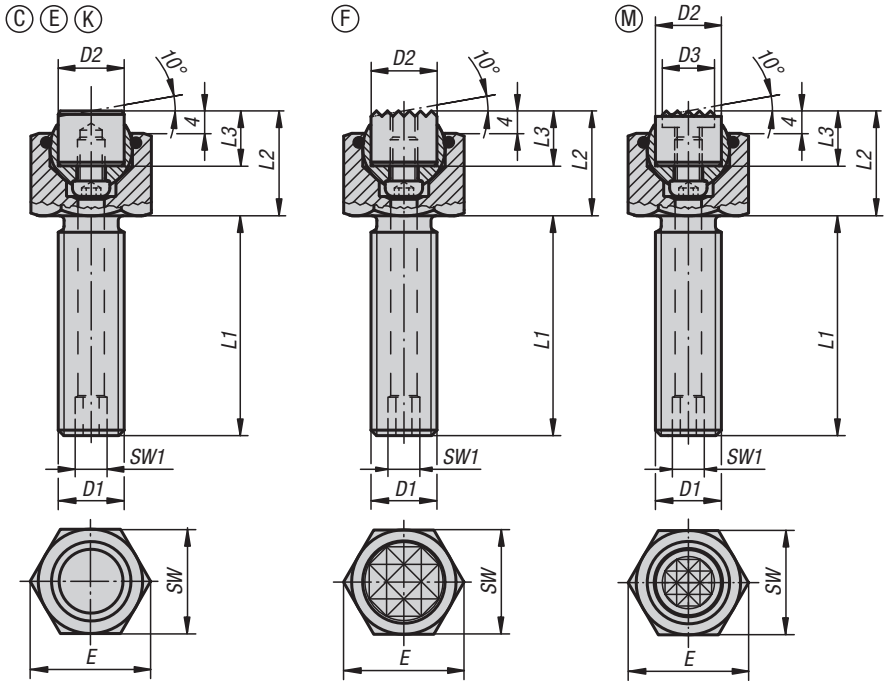
KIPP Form P, stainless-steel ball with polyurethane face

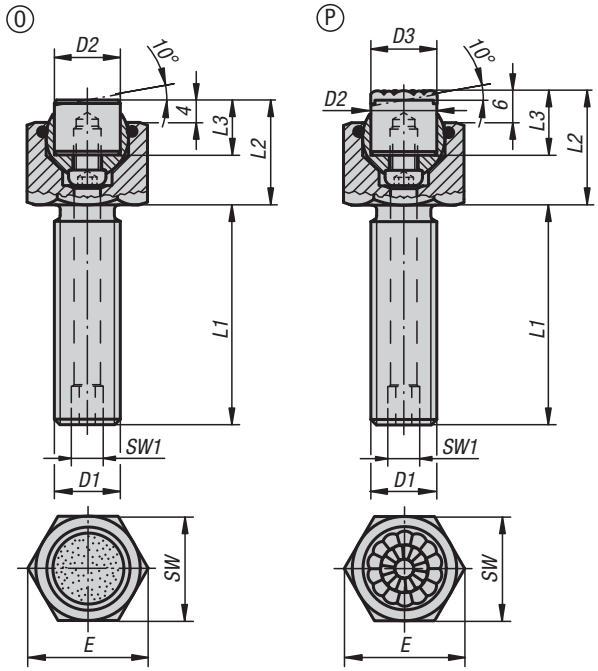
Order No.	Form	D1	D2	L1	L2	L3	E	SW	SW1	W	Ball-Ø
K0288.606X	P	M6	10	12/25/40	12	4	11,5	10	-	28	7
K0288.608X	P	M8	13	12/25/40	16,5	5	15	13	-	28	10
K0288.610X	P	M10	16	15/30/50	18	5	19,6	17	3	28	13
K0288.612X	P	M12	21	20/40/60	21	6	21,9	19	5	24	15
K0288.616X	P	M16	23	25/50/80	25	6	27,7	24	6	24	20

Self-aligning pads

adjustable, with O-ring and exchangeable inserts







Material:
Body carbon steel.
Ball rust and acid resistant steel.
Inserts:
Form C, F, M tool steel
Form K POM
Form E stainless steel.
Form O stainless steel diamond impregnated.
Form P stainless steel with polyurethane surface.

Version:
Body tempered, black oxidised.
Ball hardened, bright.
Inserts:
Form C, F hardened, black oxidised.
Form M with carbide serrations, black oxidised.
Form K white.
Form E hardened, bright.
Form O diamond impregnated surface comparable to 100 grade abrasive grit.
Form P polyurethane surface, hardness 60 Shore.

Sample order:
K0289.124X100

Note:
Self-aligning pads are used to support and clamp unmachined and machined workpieces.
They also serve as stops, supports and thrust pads in fixtures and toolmaking.
The ball can be removed from the housing by applying light pressure to the socket head screw.

Ball secured against rotation.

Advantages:
Highly cost-effective as inserts can be exchanged.
The built-in O-ring holds the ball in place and keeps dirt and foreign particles out, ensuring uniform movement.

Self-aligning pads

adjustable, with O-ring and exchangeable inserts

Order No.	Form	D1	D2	L1	L2	L3	E	SW	SW1	Ball-Ø	Load rating max. kN (static load only)	Order No. steel insert
K0289.110X015	C	M10	10	15	17	10	19,6	17	3	13	19	K0385.10108
K0289.110X030	C	M10	10	30	17	10	19,6	17	3	13	19	K0385.10108
K0289.110X050	C	M10	10	50	17	10	19,6	17	3	13	19	K0385.10108
K0289.112X020	C	M12	12	20	19	10	21,9	19	5	15	30	K0385.12108
K0289.112X040	C	M12	12	40	19	10	21,9	19	5	15	30	K0385.12108
K0289.112X060	C	M12	12	60	19	10	21,9	19	5	15	30	K0385.12108
K0289.116X025	C	M16	16	25	23	10	27,7	24	6	20	50	K0385.16108
K0289.116X050	C	M16	16	50	23	10	27,7	24	6	20	50	K0385.16108
K0289.116X080	C	M16	16	80	23	10	27,7	24	6	20	50	K0385.16108
K0289.120X030	C	M20	20	30	24	10	34,6	30	8	23	85	K0385.20108
K0289.120X060	C	M20	20	60	24	10	34,6	30	8	23	85	K0385.20108
K0289.120X100	C	M20	20	100	24	10	34,6	30	8	23	85	K0385.20108
K0289.124X040	C	M24	25	40	30	10	41,6	36	10	28	121	K0385.25108
K0289.124X100	C	M24	25	100	30	10	41,6	36	10	28	121	K0385.25108

Order No.	Form	D1	D2	L1	L2	L3	E	SW	SW1	Ball-Ø	Load rating max. kN (static load only)	Order No. stainless steel insert
K0289.210X015	E	M10	10	15	17	10	19,6	17	3	13	19	K0385.10102
K0289.210X030	E	M10	10	30	17	10	19,6	17	3	13	19	K0385.10102
K0289.210X050	E	M10	10	50	17	10	19,6	17	3	13	19	K0385.10102
K0289.212X020	E	M12	12	20	19	10	21,9	19	5	15	30	K0385.12102
K0289.212X040	E	M12	12	40	19	10	21,9	19	5	15	30	K0385.12102
K0289.212X060	E	M12	12	60	19	10	21,9	19	5	15	30	K0385.12102
K0289.216X025	E	M16	16	25	23	10	27,7	24	6	20	50	K0385.16102
K0289.216X050	E	M16	16	50	23	10	27,7	24	6	20	50	K0385.16102
K0289.216X080	E	M16	16	80	23	10	27,7	24	6	20	50	K0385.16102
K0289.220X030	E	M20	20	30	24	10	34,6	30	8	23	85	K0385.20102
K0289.220X060	E	M20	20	60	24	10	34,6	30	8	23	85	K0385.20102
K0289.220X100	E	M20	20	100	24	10	34,6	30	8	23	85	K0385.20102
K0289.224X040	E	M24	25	40	30	10	41,6	36	10	28	121	K0385.25102
K0289.224X100	E	M24	25	100	30	10	41,6	36	10	28	121	K0385.25102

Order No.	Form	D1	D2	L1	L2	L3	E	SW	SW1	Ball-Ø	Load rating max. kN (static load only)	Order No. gripper
K0289.310X015	F	M10	10	15	17	10	19,6	17	3	13	19	K0385.1010
K0289.310X030	F	M10	10	30	17	10	19,6	17	3	13	19	K0385.1010
K0289.310X050	F	M10	10	50	17	10	19,6	17	3	13	19	K0385.1010
K0289.312X020	F	M12	12	20	19	10	21,9	19	5	15	30	K0385.1210
K0289.312X040	F	M12	12	40	19	10	21,9	19	5	15	30	K0385.1210
K0289.312X060	F	M12	12	60	19	10	21,9	19	5	15	30	K0385.1210
K0289.316X025	F	M16	16	25	23	10	27,7	24	6	20	50	K0385.1610
K0289.316X050	F	M16	16	50	23	10	27,7	24	6	20	50	K0385.1610
K0289.316X080	F	M16	16	80	23	10	27,7	24	6	20	50	K0385.1610
K0289.320X030	F	M20	20	30	24	10	34,6	30	8	23	85	K0385.2010
K0289.320X060	F	M20	20	60	24	10	34,6	30	8	23	85	K0385.2010
K0289.320X100	F	M20	20	100	24	10	34,6	30	8	23	85	K0385.2010
K0289.324X040	F	M24	25	40	30	10	41,6	36	10	28	121	K0385.2510
K0289.324X100	F	M24	25	100	30	10	41,6	36	10	28	121	K0385.2510

Self-aligning pads

adjustable, with O-ring and exchangeable inserts

Order No.	Form	D1	D2	L1	L2	L3	E	SW	SW1	Ball-Ø	Load rating max. kN (static load only)	Order No. POM insert
K0289.710X015	K	M10	10	15	17	10	19,6	17	3	13	4	K0385.10109
K0289.710X030	K	M10	10	30	17	10	19,6	17	3	13	4	K0385.10109
K0289.710X050	K	M10	10	50	17	10	19,6	17	3	13	4	K0385.10109
K0289.712X020	K	M12	12	20	19	10	21,9	19	5	15	7	K0385.12109
K0289.712X040	K	M12	12	40	19	10	21,9	19	5	15	7	K0385.12109
K0289.712X060	K	M12	12	60	19	10	21,9	19	5	15	7	K0385.12109
K0289.716X025	K	M16	16	25	23	10	27,7	24	6	20	14	K0385.16109
K0289.716X050	K	M16	16	50	23	10	27,7	24	6	20	14	K0385.16109
K0289.716X080	K	M16	16	80	23	10	27,7	24	6	20	14	K0385.16109
K0289.720X030	K	M20	20	30	24	10	34,6	30	8	23	27	K0385.20109
K0289.720X060	K	M20	20	60	24	10	34,6	30	8	23	27	K0385.20109
K0289.720X100	K	M20	20	100	24	10	34,6	30	8	23	27	K0385.20109
K0289.724X040	K	M24	25	40	30	10	41,6	36	10	28	47	K0385.25109
K0289.724X100	K	M24	25	100	30	10	41,6	36	10	28	47	K0385.25109

Order No.	Form	D1	D2	D3	L1	L2	L3	E	SW	SW1	Ball-Ø	Load rating max. kN (static load only)	Order No. gripper
K0289.910X015	M	M10	10	7,9	15	17	10	19,6	17	3	13	19	K0385.10107
K0289.910X030	M	M10	10	7,9	30	17	10	19,6	17	3	13	19	K0385.10107
K0289.910X050	M	M10	10	7,9	50	17	10	19,6	17	3	13	19	K0385.10107
K0289.912X020	M	M12	12	9,5	20	19	10	21,9	19	5	15	30	K0385.12107
K0289.912X040	M	M12	12	9,5	40	19	10	21,9	19	5	15	30	K0385.12107
K0289.912X060	M	M12	12	9,5	60	19	10	21,9	19	5	15	30	K0385.12107
K0289.916X025	M	M16	16	12,7	25	23	10	27,7	24	6	20	50	K0385.16107
K0289.916X050	M	M16	16	12,7	50	23	10	27,7	24	6	20	50	K0385.16107
K0289.916X080	M	M16	16	12,7	80	23	10	27,7	24	6	20	50	K0385.16107
K0289.920X030	M	M20	20	15,9	30	24	10	34,6	30	8	23	85	K0385.20107
K0289.920X060	M	M20	20	15,9	60	24	10	34,6	30	8	23	85	K0385.20107
K0289.920X100	M	M20	20	15,9	100	24	10	34,6	30	8	23	85	K0385.20107
K0289.924X040	M	M24	25	19	40	30	10	41,6	36	10	28	121	K0385.25107
K0289.924X100	M	M24	25	19	100	30	10	41,6	36	10	28	121	K0385.25107

Self-aligning pads

adjustable, with O-ring and exchangeable inserts

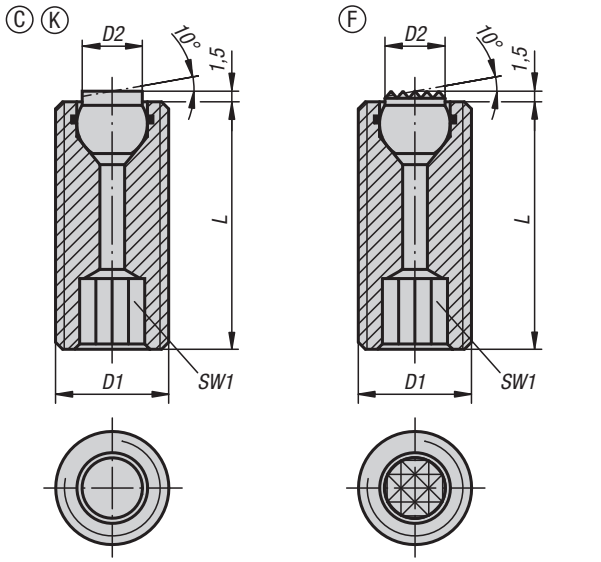
Order No.	Form	D1	D2	L1	L2	L3	E	SW	SW1	Ball-Ø	Load rating max. kN (static load only)	Order No. stainless steel insert, diamond surface
K0289.510X015	0	M10	10	15	17	10	19,6	17	3	13	19	K0385.10105
K0289.510X030	0	M10	10	30	17	10	19,6	17	3	13	19	K0385.10105
K0289.510X050	0	M10	10	50	17	10	19,6	17	3	13	19	K0385.10105
K0289.512X020	0	M12	12	20	19	10	21,9	19	5	15	30	K0385.12105
K0289.512X040	0	M12	12	40	19	10	21,9	19	5	15	30	K0385.12105
K0289.512X060	0	M12	12	60	19	10	21,9	19	5	15	30	K0385.12105
K0289.516X025	0	M16	16	25	23	10	27,7	24	6	20	50	K0385.16105
K0289.516X050	0	M16	16	50	23	10	27,7	24	6	20	50	K0385.16105
K0289.516X080	0	M16	16	80	23	10	27,7	24	6	20	50	K0385.16105
K0289.520X030	0	M20	20	30	24	10	34,6	30	8	23	85	K0385.20105
K0289.520X060	0	M20	20	60	24	10	34,6	30	8	23	85	K0385.20105
K0289.520X100	0	M20	20	100	24	10	34,6	30	8	23	85	K0385.20105
K0289.524X040	0	M24	25	40	30	10	41,6	36	10	28	121	K0385.25105
K0289.524X100	0	M24	25	100	30	10	41,6	36	10	28	121	K0385.25105

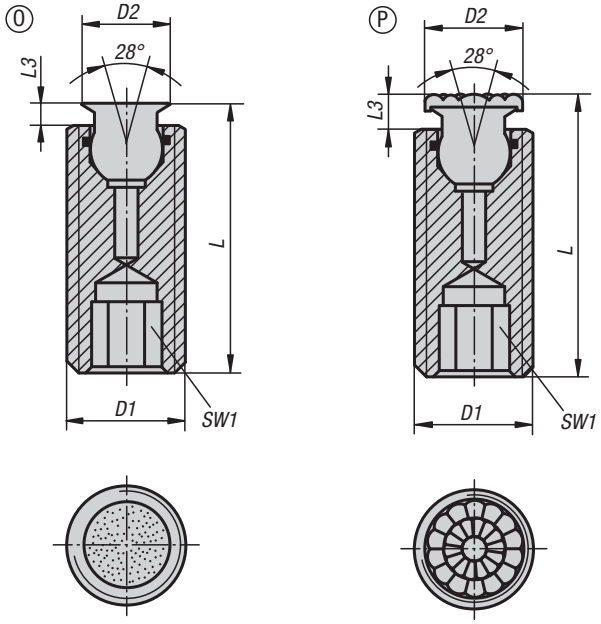
Order No.	Form	D1	D2	D3	L1	L2	L3	E	SW	SW1	Ball-Ø	Order No. stainless steel insert, polyurethane surface
K0289.610X015	P	M10	10	10	15	19	12	19,6	17	3	13	K0385.10126
K0289.610X030	P	M10	10	10	30	19	12	19,6	17	3	13	K0385.10126
K0289.610X050	P	M10	10	10	50	19	12	19,6	17	3	13	K0385.10126
K0289.612X020	P	M12	12	13	20	21	12	21,9	19	5	15	K0385.12126
K0289.612X040	P	M12	12	13	40	21	12	21,9	19	5	15	K0385.12126
K0289.612X060	P	M12	12	13	60	21	12	21,9	19	5	15	K0385.12126
K0289.616X025	P	M16	16	16	25	25	12	27,7	24	6	20	K0385.16126
K0289.616X050	P	M16	16	16	50	25	12	27,7	24	6	20	K0385.16126
K0289.616X080	P	M16	16	16	80	25	12	27,7	24	6	20	K0385.16126
K0289.620X030	P	M20	20	21	30	26	12	34,6	30	8	23	K0385.20126
K0289.620X060	P	M20	20	21	60	26	12	34,6	30	8	23	K0385.20126
K0289.620X100	P	M20	20	21	100	26	12	34,6	30	8	23	K0385.20126
K0289.624X040	P	M24	25	27	40	32	12	41,6	36	10	28	K0385.25126
K0289.624X100	P	M24	25	27	100	32	12	41,6	36	10	28	K0385.25126

Self-aligning pads

adjustable, with O-ring and hexagon socket







Material:
Body carbon steel.
Ball:
Form C, F, tool steel.
Form K POM.
Form O stainless steel diamond impregnated.
Form P stainless steel with polyurethane surface.

Version:
Body tempered, black oxidised.
Ball:
Form C, F hardened, black oxidised.
Form K POM ball white.
Form O surface comparable to 100 grade abrasive grit.
Form P polyurethane, hardness 60 Shore.

Sample order:
K0290.510X026
(include length L)

Note:
Self-aligning pads are used to support and clamp unmachined and machined workpieces.
They also serve as stops, supports and thrust pads in fixtures and toolmaking.

Ball secured against rotation.

Form O: The abrasive diamond surface is bonded firmly to the ball. It is ideally suited to supporting smooth or slippery applications with a minimum of clamping pressure. This allows the diamond particles to get a firm grip on a very small area with minimum damage to the surface.
The diamond surface offers excellent wear resistance.

Form P: The polyurethane surface is vulcanised firmly to the ball. It is abrasion-resistant and does not discolour. Offers optimum protection against damage to delicate surfaces. The pearl-like surface gives a firm grip and allows air to escape so as to prevent any suction effect between the contact surface and the toggle locator.

Advantages:
The built-in O-ring holds the ball in place and keeps dirt and foreign particles out, ensuring uniform movement.
The hexagon socket allows easy adjustment and positioning in through holes.

Self-aligning pads

adjustable, with O-ring and hexagon socket

KIPP Form C, flattened steel ball, smooth

Order No.	Form	D1	D2	L	SW1	Ball-Ø	Load rating max. kN (static load only)
K0290.112X025	C	M12	6	25	6	7	15
K0290.112X035	C	M12	6	35	6	7	15
K0290.112X050	C	M12	6	50	6	7	15
K0290.116X025	C	M16	8,5	25	8	10	23
K0290.116X035	C	M16	8,5	35	8	10	23
K0290.116X050	C	M16	8,5	50	8	10	23

KIPP Form F, flattened steel ball, diamond grip

Order No.	Form	D1	D2	L	SW1	Ball-Ø	Load rating max. kN (static load only)
K0290.312X025	F	M12	6	25	6	7	15
K0290.312X035	F	M12	6	35	6	7	15
K0290.312X050	F	M12	6	50	6	7	15
K0290.316X025	F	M16	8,5	25	8	10	23
K0290.316X035	F	M16	8,5	35	8	10	23
K0290.316X050	F	M16	8,5	50	8	10	23

KIPP Form K, flattened POM ball, smooth

Order No.	Form	D1	D2	L	SW1	Ball-Ø	Load rating max. kN (static load only)
K0290.712X025	K	M12	6	25	6	7	2
K0290.712X035	K	M12	6	35	6	7	2
K0290.712X050	K	M12	6	50	6	7	2
K0290.716X025	K	M16	8,5	25	8	10	4
K0290.716X035	K	M16	8,5	35	8	10	4
K0290.716X050	K	M16	8,5	50	8	10	4

KIPP Form O, stainless-steel ball, diamond impregnated

Order No.	Form	D1	D2	L	L3	SW1	Ball-Ø	Load rating max. kN (static load only)
K0290.510X	O	M10	6	26,5/36,5/51,5	1,5	5	5	-
K0290.512X	O	M12	8	27/37/52	2	6	7	15,4
K0290.516X	O	M16	11	28/38/53	3	8	10	23,3
K0290.520X	O	M20	14	33/53/73	3	10	13	37,7

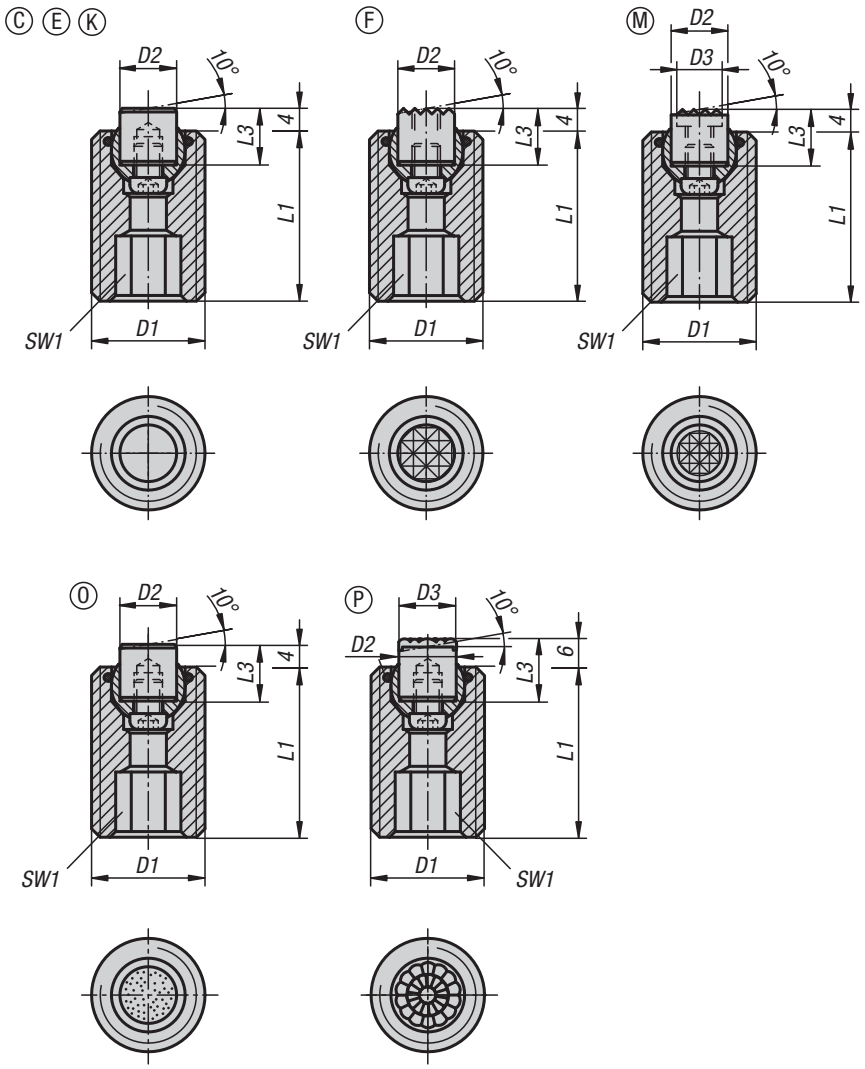
KIPP Form P, stainless-steel ball with polyurethane face

Order No.	Form	D1	D2	L	L3	SW1	Ball-Ø
K0290.610X	P	M10	8	28,5/38,5/53,5	3,5	5	5
K0290.612X	P	M12	10	29/39/54	4	6	7
K0290.616X	P	M16	13	30/40/55	5	8	10
K0290.620X	P	M20	16	35/55/75	5	10	13

Self-aligning pads

adjustable, with O-ring, exchangeable inserts and hexagon socket





Material:
Body carbon steel.
Ball rust and acid resistant steel.
Inserts:
Form C, F, M tool steel
Form K POM
Form E stainless steel.
Form O stainless steel diamond impregnated.
Form P stainless steel with polyurethane surface.

Version:
Body tempered, black oxidised.
Ball hardened, bright.
Inserts:
Form C, F hardened, black oxidised.
Form M with carbide serrations, black oxidised.
Form K white.
Form E hardened, bright.
Form O diamond impregnated surface comparable to 100 grade abrasive grit.
Form P polyurethane surface, hardness 60 Shore.

Sample order:
K0291.720X070

Note:
Self-aligning pads are used to support and clamp unmachined and machined workpieces.
They also serve as stops, supports and thrust pads in fixtures and toolmaking.
The ball can be removed from the housing by applying light pressure to the socket head screw.

Ball secured against rotation.

Advantages:
Highly cost-effective as inserts can be exchanged.
The built-in O-ring holds the ball in place and keeps dirt and foreign particles out, ensuring uniform movement.

KIPP Form C, flattened steel insert, smooth

Order No.	Form	D1	D2	L1	L3	SW1	Ball-Ø	Load rating max. kN (static load only)	Order No. steel insert
K0291.120X030	C	M20	10	30	10	10	13	37	K0385.10108
K0291.120X050	C	M20	10	50	10	10	13	37	K0385.10108
K0291.120X070	C	M20	10	70	10	10	13	37	K0385.10108
K0291.124X040	C	M24	12	40	10	10	15	55	K0385.12108
K0291.124X080	C	M24	12	80	10	10	15	55	K0385.12108

KIPP Form E, flattened stainless steel insert, smooth

Order No.	Form	D1	D2	L1	L3	SW1	Ball-Ø	Load rating max. kN (static load only)	Order No. stainless steel insert
K0291.220X030	E	M20	10	30	10	10	13	37	K0385.10102
K0291.220X050	E	M20	10	50	10	10	13	37	K0385.10102
K0291.220X070	E	M20	10	70	10	10	13	37	K0385.10102
K0291.224X040	E	M24	12	40	10	10	15	55	K0385.12102
K0291.224X080	E	M24	12	80	10	10	15	55	K0385.12102

KIPP Form F, flattened, diamond grip

Order No.	Form	D1	D2	L1	L3	SW1	Ball-Ø	Load rating max. kN (static load only)	Order No. gripper
K0291.320X030	F	M20	10	30	10	10	13	37	K0385.1010
K0291.320X050	F	M20	10	50	10	10	13	37	K0385.1010
K0291.320X070	F	M20	10	70	10	10	13	37	K0385.1010
K0291.324X040	F	M24	12	40	10	10	15	55	K0385.1210
K0291.324X080	F	M24	12	80	10	10	15	55	K0385.1210

KIPP Form K, flattened POM insert, smooth

Order No.	Form	D1	D2	L1	L3	SW1	Ball-Ø	Load rating max. kN (static load only)	Order No. POM insert
K0291.720X030	K	M20	10	30	10	10	13	4	K0385.10109
K0291.720X050	K	M20	10	50	10	10	13	4	K0385.10109
K0291.720X070	K	M20	10	70	10	10	13	4	K0385.10109
K0291.724X040	K	M24	12	40	10	10	15	7	K0385.12109
K0291.724X080	K	M24	12	80	10	10	15	7	K0385.12109

KIPP Form M, flattened, with carbide serrations

Order No.	Form	D1	D2	D3	L1	L3	SW1	Ball-Ø	Load rating max. kN (static load only)	Order No. gripper
K0291.920X030	M	M20	10	7,9	30	10	10	13	37	K0385.10107
K0291.920X050	M	M20	10	7,9	50	10	10	13	37	K0385.10107
K0291.920X070	M	M20	10	7,9	70	10	10	13	37	K0385.10107
K0291.924X040	M	M24	12	9,5	40	10	10	15	55	K0385.12107
K0291.924X080	M	M24	12	9,5	80	10	10	15	55	K0385.12107

KIPP Form O, stainless-steel insert, diamond impregnated

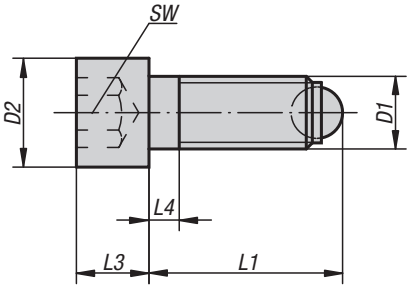
Order No.	Form	D1	D2	L1	L3	SW1	Ball-Ø	Load rating max. kN (static load only)	Order No. stainless steel insert, diamond surface
K0291.520X030	O	M20	10	30	10	10	13	37	K0385.10105
K0291.520X050	O	M20	10	50	10	10	13	37	K0385.10105
K0291.520X070	O	M20	10	70	10	10	13	37	K0385.10105
K0291.524X040	O	M24	12	40	10	10	15	55	K0385.12105
K0291.524X080	O	M24	12	80	10	10	15	55	K0385.12105

KIPP Form P, stainless-steel insert with polyurethane face

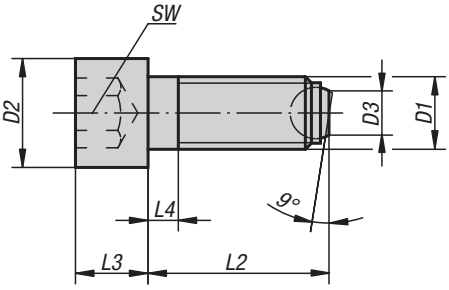
Order No.	Form	D1	D2	D3	L1	L3	SW1	Ball-Ø	Load rating max. kN (static load only)	Order No. stainless steel insert, polyurethane surface
K0291.620X030	P	M20	10	10	30	12	10	13	37	K0385.10126
K0291.620X050	P	M20	10	10	50	12	10	13	37	K0385.10126
K0291.620X070	P	M20	10	10	70	12	10	13	37	K0385.10126
K0291.624X040	P	M24	12	13	40	12	10	15	55	K0385.12126
K0291.624X080	P	M24	12	13	80	12	10	15	55	K0385.12126

Ball-end thrust screws with head

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Material:
Screw carbon steel.
Ball ball-bearing steel.

Version:
Screw grade min. 10.9, black.
Ball hardened, bright.

Sample order:
K0380.10820

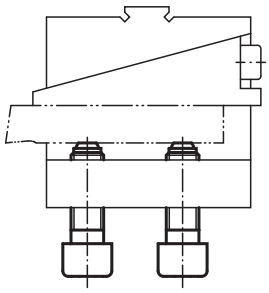
Drawing reference:
Form A: full ball
Form B: flattened ball
Form BV: flattened ball non-rotating
Form F: flattened ball diamond grip
Form FV: flattened ball diamond grip non-rotating

Note:
Form A with full ball is used when a clean, polished contact surface is required. Surfaces which are not flat and parallel can be firmly clamped or supported with Form B with flattened ball, the movable ball can adapt itself up to 9°.

KIPP Ball-end thrust screws with head

Order No.	Form	D1	L1	D2	L3	L4	Ball-Ø	SW	Load rating max. kN (static load only)
K0380.10410	A	M4	10,2	7	4	2,1	2,5	3	3,5
K0380.10416	A	M4	16,2	7	4	2,1	2,5	3	3,5
K0380.10420	A	M4	20,2	7	4	2,1	2,5	3	3,5
K0380.10512	A	M5	12,4	8,5	5	2,4	3	4	4,5
K0380.10516	A	M5	16,4	8,5	5	2,4	3	4	4,5
K0380.10520	A	M5	20,4	8,5	5	2,4	3	4	4,5
K0380.10620	A	M6	20,8	10	6	3	4	5	9
K0380.10630	A	M6	30,8	10	6	3	4	5	9
K0380.10640	A	M6	40,8	10	6	16	4	5	9
K0380.10820	A	M8	21,2	13	8	3,5	5,5	6	15
K0380.10835	A	M8	36,2	13	8	3,5	5,5	6	15
K0380.10850	A	M8	51,2	13	8	22	5,5	6	15
K0380.11025	A	M10	26,7	16	10	4,5	7	8	20
K0380.11040	A	M10	41,7	16	10	4,5	7	8	20
K0380.11060	A	M10	61,7	16	10	28	7	8	20
K0380.11230	A	M12	32	18	12	5	8,5	10	30
K0380.11250	A	M12	52	18	12	5	8,5	10	30
K0380.11280	A	M12	82	18	12	44	8,5	10	30
K0380.11640	A	M16	43,3	24	16	6	12	14	60
K0380.11660	A	M16	63,3	24	16	6	12	14	60
K0380.11680	A	M16	83,3	24	16	36	12	14	60
K0380.120100	A	M20	104,2	30	20	48	15	17	90
K0380.12050	A	M20	54,2	30	20	7,5	15	17	90
K0380.12080	A	M20	84,2	30	20	28	15	17	90
K0380.124120	A	M24	124,7	36	24	60	18	19	120
K0380.12460	A	M24	64,7	36	24	9	18	19	120
K0380.12490	A	M24	94,7	36	24	30	18	19	120

Ball-end thrust screws with head

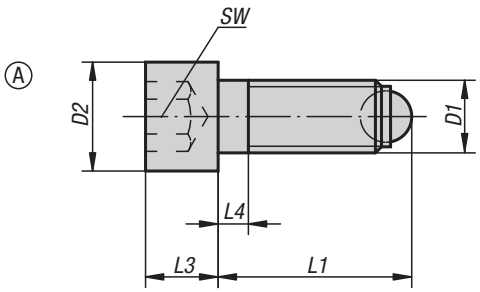


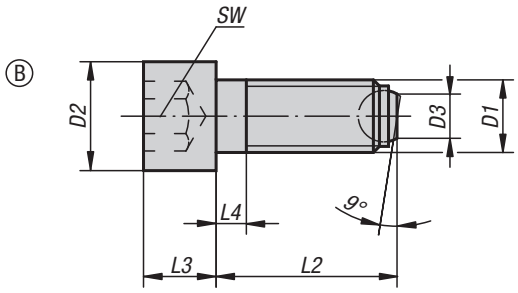
Order No. Form B	Order No. Form F	D1	D2	D3	L2	L3	L4	Ball-Ø	SW	Load rating max. kN (static load only)
K0380.20410	-	M4	7	1,4	10	4	2,1	2,5	3	3,5
K0380.20416	-	M4	7	1,4	16	4	2,1	2,5	3	3,5
K0380.20420	-	M4	7	1,4	20	4	2,1	2,5	3	3,5
K0380.20512	-	M5	8,5	2	12	5	2,4	3	4	4,5
K0380.20516	-	M5	8,5	2	16	5	2,4	3	4	4,5
K0380.20520	-	M5	8,5	2	20	5	2,4	3	4	4,5
K0380.20620	-	M6	10	3,2	20	6	3	4	5	9
K0380.20630	-	M6	10	3,2	30	6	3	4	5	9
K0380.20640	-	M6	10	3,2	40	6	16	4	5	9
K0380.20820	-	M8	13	4,5	20	8	3,5	5,5	6	15
K0380.20835	-	M8	13	4,5	35	8	3,5	5,5	6	15
K0380.20850	-	M8	13	4,5	50	8	22	5,5	6	15
K0380.21025	K0380.31025	M10	16	6	25	10	4,5	7	8	20
K0380.21040	K0380.31040	M10	16	6	40	10	4,5	7	8	20
K0380.21060	K0380.31060	M10	16	6	60	10	28	7	8	20
K0380.21230	K0380.31230	M12	18	7,2	30	12	5	8,5	10	30
K0380.21250	K0380.31250	M12	18	7,2	50	12	5	8,5	10	30
K0380.21280	K0380.31280	M12	18	7,2	80	12	44	8,5	10	30
K0380.21640	K0380.31640	M16	24	10,7	40	16	6	12	14	60
K0380.21660	K0380.31660	M16	24	10,7	60	16	6	12	14	60
K0380.21680	K0380.31680	M16	24	10,7	80	16	36	12	14	60
K0380.220100	-	M20	30	13,5	100	20	48	15	17	90
K0380.22050	-	M20	30	13,5	50	20	7,5	15	17	90
K0380.22080	-	M20	30	13,5	80	20	28	15	17	90
K0380.224120	-	M24	36	15,8	120	24	60	18	19	120
K0380.22460	-	M24	36	15,8	60	24	9	18	19	120
K0380.22490	-	M24	36	15,8	90	24	30	18	19	120

Order No. Form BV	Order No. Form FV	D1	D2	D3	L2	L3	L4	Ball-Ø	SW	Load rating max. kN (static load only)
K0380.40820	-	M8	13	4,5	20	8	3,5	5,5	6	9
K0380.40835	-	M8	13	4,5	35	8	3,5	5,5	6	9
K0380.40850	-	M8	13	4,5	50	8	22	5,5	6	9
K0380.41025	K0380.51025	M10	16	6	25	10	4,5	7	8	12
K0380.41040	K0380.51040	M10	16	6	40	10	4,5	7	8	12
K0380.41060	K0380.51060	M10	16	6	60	10	28	7	8	12
K0380.41230	K0380.51230	M12	18	7,2	30	12	5	8,5	10	18
K0380.41250	K0380.51250	M12	18	7,2	50	12	5	8,5	10	18
K0380.41280	K0380.51280	M12	18	7,2	80	12	44	8,5	10	18
K0380.41640	K0380.51640	M16	24	10,7	40	16	6	12	14	36
K0380.41660	K0380.51660	M16	24	10,7	60	16	6	12	14	36
K0380.41680	K0380.51680	M16	24	10,7	80	16	36	12	14	36

Ball-end thrust screws with head

stainless steel







Material:
Stainless steel

Version:
Bright.

Sample order:
K0381.11230

Note:
Form A with full ball is used when a clean, polished contact surface is required. Surfaces which are not flat and parallel can be firmly clamped or supported with Form B with flattened ball, the movable ball can adapt itself up to 9°.

Drawing reference:
Form A: with full ball
Form B: with flattened ball

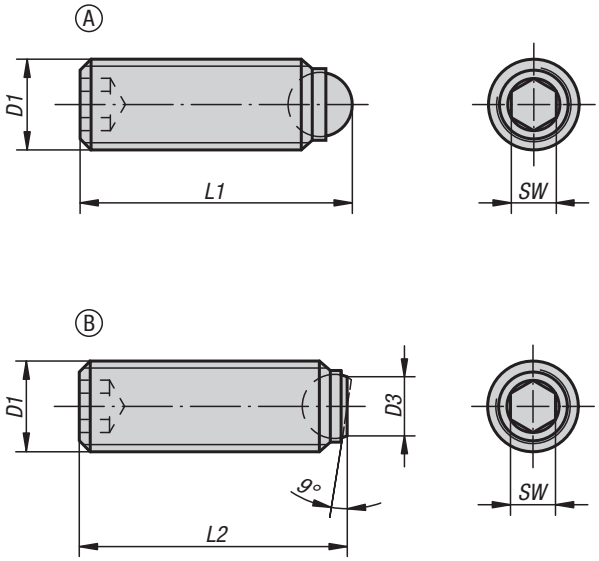
KIPP Ball-end thrust screws with head, stainless steel

Order No. Form A	Order No. Form B	D1	D2	D3	L1	L2	L3	L4	Ball-Ø	SW
K0381.10410	K0381.20410	M4	7	-/1,4	10,2/-	-/10	4	2,1	2,5	3
K0381.10416	K0381.20416	M4	7	-/1,4	16,2/-	-/16	4	2,1	2,5	3
K0381.10420	K0381.20420	M4	7	-/1,4	20,2/-	-/20	4	2,1	2,5	3
K0381.10512	K0381.20512	M5	8,5	-/2	12,4/-	-/12	5	2,4	3	4
K0381.10516	K0381.20516	M5	8,5	-/2	16,4/-	-/16	5	2,4	3	4
K0381.10520	K0381.20520	M5	8,5	-/2	20,4/-	-/20	5	2,4	3	4
K0381.10620	K0381.20620	M6	10	-/3,2	20,8/-	-/20	6	3	4	5
K0381.10630	K0381.20630	M6	10	-/3,2	30,8/-	-/30	6	3	4	5
K0381.10640	K0381.20640	M6	10	-/3,2	40,8/-	-/40	6	16	4	5
K0381.10820	K0381.20820	M8	13	-/4,5	21,2/-	-/20	8	3,5	5,5	6
K0381.10835	K0381.20835	M8	13	-/4,5	36,2/-	-/35	8	3,5	5,5	6
K0381.10850	K0381.20850	M8	13	-/4,5	51,2/-	-/50	8	22	5,5	6
K0381.11025	K0381.21025	M10	16	-/6	26,7/-	-/25	10	4,5	7	8
K0381.11040	K0381.21040	M10	16	-/6	41,7/-	-/40	10	4,5	7	8
K0381.11060	K0381.21060	M10	16	-/6	61,7/-	-/60	10	28	7	8
K0381.11230	K0381.21230	M12	18	-/7,2	32/-	-/30	12	5	8,5	10
K0381.11250	K0381.21250	M12	18	-/7,2	52/-	-/50	12	5	8,5	10
K0381.11280	K0381.21280	M12	18	-/7,2	82/-	-/80	12	44	8,5	10
K0381.11640	K0381.21640	M16	24	-/10,7	43,3/-	-/40	16	6	12	14
K0381.11660	K0381.21660	M16	24	-/10,7	63,3/-	-/60	16	6	12	14
K0381.11680	K0381.21680	M16	24	-/10,7	83,3/-	-/80	16	36	12	14

Ball-end thrust screws without head

with fine thread





Material:
Screw carbon steel, grade 10.9
Ball, ball-bearing steel.

Version:
Screw black.
Ball hardened and bright.

Sample order:
K0382.11025

Note:
Form A with full ball is used when a clean, polished pressure surface is required. Surfaces which are not plane and parallel can be firmly clamped or supported with Form B with flattened ball because the movable ball can adapt itself up to 9°.

Fine thread enables extremely sensitive alignment of the ball-end thrust screws.

Drawing reference:
Form A: with full ball
Form B: with flattened ball

KIPP Ball-end thrust screws without head with fine thread

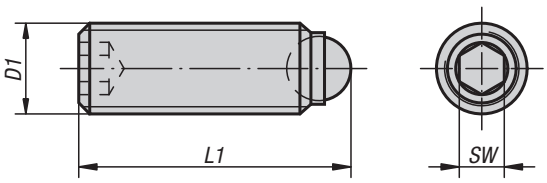
Order No. Form A	Order No. Form B	D1	D3	L1	L2	Ball-Ø	SW	Load rating max. kN (static load only)
K0382.10810	K0382.20810	M8x1	-/4,1	11,2/-	-/10,3	5,5	4	10
K0382.10820	K0382.20820	M8x1	-/4,1	21,2/-	-/20,3	5,5	4	15
K0382.11012	K0382.21012	M10x1	-/5,6	13,7/-	-/12,3	7	5	20
K0382.11025	K0382.21025	M10x1	-/5,6	26,7/-	-/25,3	7	5	20
K0382.11216	K0382.21216	M12x1,5	-/7	18/-	-/16,2	8,5	6	30
K0382.11230	K0382.21230	M12x1,5	-/7	32/-	-/30,2	8,5	6	30
K0382.11620	K0382.21620	M16X1,5	-/10,7	23,3/-	-/20	12	8	60
K0382.11635	K0382.21635	M16X1,5	-/10,7	38,3/-	-/35	12	8	60
K0382.12030	K0382.22030	M20x1,5	-/13,5	34,2/-	-/30	15	10	90
K0382.12040	K0382.22040	M20x1,5	-/13,5	44,2/-	-/40	15	10	90

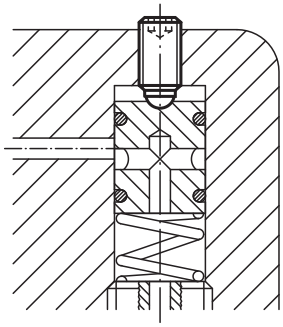
Ball-end thrust screws without head

with full ball



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Material:
Screw carbon steel, grade 10.9
Ball, ball-bearing steel or POM.

Version:
Screw black.
Ball hardened bright or POM.

Sample order:
K0383.10810

Note:
Ball-end thrust screws with full ball are used when a clean, polished contact surface is required.
Longer versions have been specially designed to be glued in, allowing mechanical connecting elements with external thread to be made cost-effectively for small and medium-sized series.

Drawing reference:
Form A: steel ball
Form D: POM ball

KIPP Ball-end thrust screws without head with full ball

Order No. Form A	Order No. Form D	D1	L1	Ball-Ø	SW	Load rating max. kN (static load only)
K0383.1046	K0383.3046	M4	6	2,5	2	3,5/0,3
K0383.1048	K0383.3048	M4	8	2,5	2	3,5/0,3
K0383.10410	K0383.30410	M4	10	2,5	2	3,5/0,3
K0383.10412	K0383.30412	M4	12	2,5	2	3,5/0,3
K0383.10416	K0383.30416	M4	16	2,5	2	3,5/0,3
K0383.1058	K0383.3058	M5	8	3	2,5	4,5/0,5
K0383.10510	K0383.30510	M5	10	3	2,5	4,5/0,5
K0383.10512	K0383.30512	M5	12	3	2,5	4,5/0,5
K0383.10516	K0383.30516	M5	16	3	2,5	4,5/0,5
K0383.10520	K0383.30520	M5	20	3	2,5	4,5/0,5
K0383.10525	K0383.30525	M5	25	3	2,5	4,5/0,5
K0383.10610	K0383.30610	M6	10,8	4	3	9/0,9
K0383.10612	K0383.30612	M6	12,8	4	3	9/0,9
K0383.10616	K0383.30616	M6	16,8	4	3	9/0,9
K0383.10620	K0383.30620	M6	20,8	4	3	9/0,9
K0383.10625	K0383.30625	M6	25,8	4	3	9/0,9
K0383.10650	-	M6	50,8	4	3	9
K0383.10660	-	M6	60,8	4	3	9
K0383.10680	-	M6	80,8	4	3	9

Ball-end thrust screws without head

with full ball

KIPP Ball-end thrust screws without head with full ball

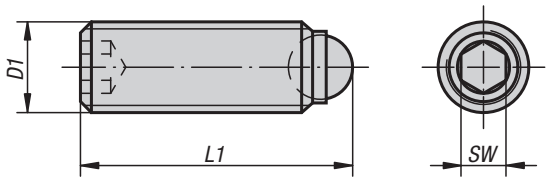
Order No. Form A	Order No. Form D	D1	L1	Ball-Ø	SW	Load rating max. kN (static load only)
K0383.10810	K0383.30810	M8	11,2	5,5	4	10/1,5
K0383.10812	K0383.30812	M8	13,2	5,5	4	10/1,5
K0383.10816	K0383.30816	M8	17,2	5,5	4	15/1,5
K0383.10820	K0383.30820	M8	21,2	5,5	4	15/1,5
K0383.10825	K0383.30825	M8	26,2	5,5	4	15/1,5
K0383.10830	K0383.30830	M8	31,2	5,5	4	15/1,5
K0383.10850	-	M8	51,2	5,5	4	15
K0383.10860	-	M8	61,2	5,5	4	15
K0383.10880	-	M8	81,2	5,5	4	15
K0383.11012	K0383.31012	M10	13,7	7	5	20/2
K0383.11016	K0383.31016	M10	17,7	7	5	20/2
K0383.11020	K0383.31020	M10	21,7	7	5	20/2
K0383.11025	K0383.31025	M10	26,7	7	5	20/2
K0383.11035	K0383.31035	M10	36,7	7	5	20/2
K0383.11216	K0383.31216	M12	18	8,5	6	30/3
K0383.11220	K0383.31220	M12	22	8,5	6	30/3
K0383.11225	-	M12	27	8,5	6	30
K0383.11230	K0383.31230	M12	32	8,5	6	30/3
K0383.11232	-	M12	34	8,5	6	30
K0383.11240	K0383.31240	M12	42	8,5	6	30/3
K0383.11620	-	M16	23,3	12	8	60
K0383.11625	-	M16	28,3	12	8	60
K0383.11635	-	M16	38,3	12	8	60
K0383.11650	-	M16	53,3	12	8	60
K0383.12030	-	M20	34,2	15	10	90
K0383.12040	-	M20	44,2	15	10	90
K0383.12060	-	M20	64,2	15	10	90
K0383.12435	-	M24	39,7	18	12	120
K0383.12450	-	M24	54,7	18	12	120
K0383.12480	-	M24	84,7	18	12	120

Ball-end thrust screws without head

stainless steel with full ball



Ⓐ Ⓓ Ⓔ



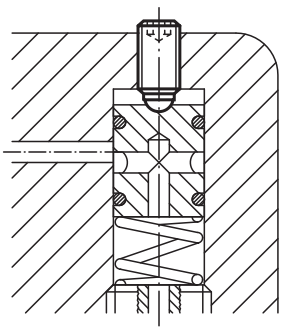
Material:
Screw stainless steel.
Ball stainless steel, POM or ceramic Si_3N_4.

Version:
Stainless steel bright.

Sample order:
K0384.1046

Note:
Ball-end thrust screws with full ball are used when a clean, polished contact surface is required. Longer versions have been designed especially to be glued in, allowing mechanical connecting elements with external threads to be made cost-effectively for small and medium-sized runs. Silicon nitride (Si_3N_4) is characterised by a combination of excellent properties, these include high resilience and strength, excellent wear resistance and good chemical resistance.

Drawing reference:
Form A: stainless steel ball
Form D: POM ball
Form E: ceramic ball



Ball-end thrust screws without head

stainless steel with full ball

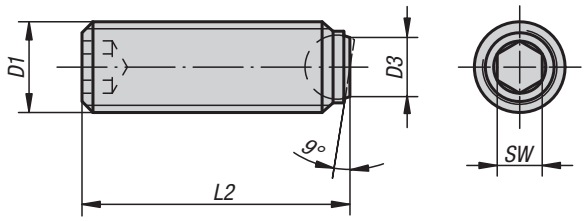
KIPP Ball-end thrust screws without head, stainless steel, with full ball

Order No. Form A	Order No. Form D	Order No. Form E	D1	L1	Ball-Ø	SW	Load rating max. kN (static load only)
K0384.1046	K0384.3046	-	M4	6	2,5	2	-/0,3
K0384.1048	K0384.3048	-	M4	8	2,5	2	-/0,3
K0384.10410	K0384.30410	-	M4	10	2,5	2	-/0,3
K0384.10412	K0384.30412	-	M4	12	2,5	2	-/0,3
K0384.10416	K0384.30416	-	M4	16	2,5	2	-/0,3
K0384.1058	K0384.3058	K0384.8058	M5	8	3	2,5	-/0,5/4,5
K0384.10510	K0384.30510	-	M5	10	3	2,5	-/0,5
K0384.10512	K0384.30512	K0384.80512	M5	12	3	2,5	-/0,5/4,5
K0384.10516	K0384.30516	-	M5	16	3	2,5	-/0,5
K0384.10520	K0384.30520	K0384.80520	M5	20	3	2,5	-/0,5/4,5
K0384.10525	K0384.30525	-	M5	25	3	2,5	-/0,5
K0384.10610	K0384.30610	K0384.80610	M6	10,8	4	3	-/0,9/9
K0384.10612	K0384.30612	-	M6	12,8	4	3	-/0,9
K0384.10616	K0384.30616	K0384.80616	M6	16,8	4	3	-/0,9/9
K0384.10620	K0384.30620	K0384.80620	M6	20,8	4	3	-/0,9/9
K0384.10625	K0384.30625	K0384.80625	M6	25,8	4	3	-/0,9/9
K0384.10650	-	-	M6	50,8	4	3	-
K0384.10660	-	-	M6	60,8	4	3	-
K0384.10680	-	-	M6	80,8	4	3	-
K0384.10810	K0384.30810	K0384.80810	M8	11,2	5,5	4	-/1,5/10
K0384.10812	K0384.30812	K0384.80812	M8	13,2	5,5	4	-/1,5/10
K0384.10816	K0384.30816	-	M8	17,2	5,5	4	-/1,5
K0384.10820	K0384.30820	K0384.80820	M8	21,2	5,5	4	-/1,5/15
K0384.10825	K0384.30825	K0384.80825	M8	26,2	5,5	4	-/1,5/15
K0384.10830	K0384.30830	K0384.80830	M8	31,2	5,5	4	-/1,5/15
K0384.10850	-	-	M8	51,2	5,5	4	-
K0384.10860	-	-	M8	61,2	5,5	4	-
K0384.10880	-	-	M8	81,2	5,5	4	-
K0384.11012	-	K0384.81012	M10	13,7	7	5	-/20
K0384.11016	-	K0384.81016	M10	17,7	7	5	-/20
K0384.11020	-	K0384.81020	M10	21,7	7	5	-/20
K0384.11025	-	K0384.81025	M10	26,7	7	5	-/20
K0384.11035	-	K0384.81035	M10	36,7	7	5	-/20
K0384.11216	-	K0384.81216	M12	18	8,5	6	-/30
K0384.11220	-	K0384.81220	M12	22	8,5	6	-/30
K0384.11225	-	-	M12	27	8,5	6	-
K0384.11230	-	K0384.81230	M12	32	8,5	6	-/30
K0384.11232	-	-	M12	34	8,5	6	-
K0384.11240	-	K0384.81240	M12	42	8,5	6	-/30
K0384.11620	-	-	M16	23,3	12	8	-
K0384.11625	-	-	M16	28,3	12	8	-
K0384.11635	-	-	M16	38,3	12	8	-
K0384.11650	-	-	M16	53,3	12	8	-

Ball-end thrust screws without head

with flattened ball

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Material:
Screw carbon steel, grade 10.9
Ball, ball-bearing steel or POM.

Version:
Screw black.
Ball hardened bright or POM.

Sample order:
K0383.41012

Note:
Surfaces which are not flat and parallel can be firmly clamped or supported with Form B, C or F with flattened ball, the movable ball can adapt itself up to 9°.
Longer versions have been specially designed to glue in, allowing mechanical connecting elements with external thread to be made cost-effectively for small and medium-sized series.

Drawing reference:
Form B: steel ball
Form C: POM ball
Form F: steel ball diamond grip

KIPP Ball-end thrust screws without head with flattened POM ball

Order No.	Form	D1	D3	L2	Ball-Ø	SW	Load rating max. kN (static load only)
K0383.7046	C	M4	1,8	5,9	2,5	2	0,3
K0383.7048	C	M4	1,8	7,9	2,5	2	0,3
K0383.70410	C	M4	1,8	9,9	2,5	2	0,3
K0383.70412	C	M4	1,8	11,9	2,5	2	0,3
K0383.70416	C	M4	1,8	15,9	2,5	2	0,3
K0383.7058	C	M5	2,1	7,8	3	2,5	0,5
K0383.70510	C	M5	2,1	9,8	3	2,5	0,5
K0383.70512	C	M5	2,1	11,8	3	2,5	0,5
K0383.70516	C	M5	2,1	15,8	3	2,5	0,5
K0383.70520	C	M5	2,1	19,8	3	2,5	0,5
K0383.70525	C	M5	2,1	24,8	3	2,5	0,5
K0383.70610	C	M6	3	10,3	4	3	0,9
K0383.70612	C	M6	3	12,3	4	3	0,9
K0383.70616	C	M6	3	16,3	4	3	0,9
K0383.70620	C	M6	3	20,3	4	3	0,9
K0383.70625	C	M6	3	25,3	4	3	0,9
K0383.70810	C	M8	4,2	10,4	5,5	4	1,5
K0383.70812	C	M8	4,2	12,4	5,5	4	1,5
K0383.70816	C	M8	4,2	16,4	5,5	4	1,5
K0383.70820	C	M8	4,2	20,4	5,5	4	1,5
K0383.70825	C	M8	4,2	25,4	5,5	4	1,5
K0383.70830	C	M8	4,2	30,4	5,5	4	1,5

KIPP Ball-end thrust screws without head with flattened serrated steel ball

Order No.	Form	D1	D3	L2	Ball-Ø	SW	Load rating max. kN (static load only)
K0383.41012	F	M10	6	12	7	5	20
K0383.41016	F	M10	6	16	7	5	20
K0383.41025	F	M10	6	25	7	5	20
K0383.41035	F	M10	6	35	7	5	20
K0383.41216	F	M12	7,2	16	8,5	6	30
K0383.41220	F	M12	7,2	20	8,5	6	30
K0383.41230	F	M12	7,2	30	8,5	6	30
K0383.41240	F	M12	7,2	40	8,5	6	30
K0383.41620	F	M16	10,7	20	12	8	60
K0383.41625	F	M16	10,7	25	12	8	60
K0383.41635	F	M16	10,7	35	12	8	60
K0383.41650	F	M16	10,7	50	12	8	60

Ball-end thrust screws without head

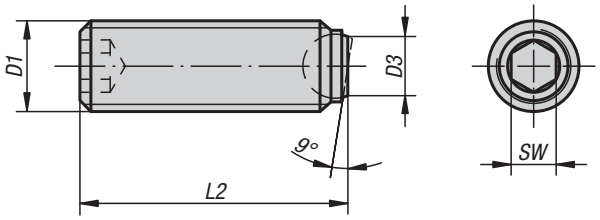
with flattened ball

KIPP Ball-end thrust screws without head with flattened steel ball

Order No.	Form	D1	D3	L2	Ball-Ø	SW	Load rating max. kN (static load only)
K0383.2046	B	M4	1,4	5,8	2,5	2	3,5
K0383.2048	B	M4	1,4	7,8	2,5	2	3,5
K0383.20410	B	M4	1,4	9,8	2,5	2	3,5
K0383.20412	B	M4	1,4	11,8	2,5	2	3,5
K0383.20416	B	M4	1,4	15,8	2,5	2	3,5
K0383.2058	B	M5	2	7,6	3	2,5	4,5
K0383.20510	B	M5	2	9,6	3	2,5	4,5
K0383.20512	B	M5	2	11,6	3	2,5	4,5
K0383.20516	B	M5	2	15,6	3	2,5	4,5
K0383.20520	B	M5	2	19,6	3	2,5	4,5
K0383.20525	B	M5	2	24,6	3	2,5	4,5
K0383.20610	B	M6	3	10,1	4	3	9
K0383.20612	B	M6	3	12,1	4	3	9
K0383.20616	B	M6	3	16,1	4	3	9
K0383.20620	B	M6	3	20,1	4	3	9
K0383.20625	B	M6	3	25,1	4	3	9
K0383.20650	B	M6	3	50,1	4	3	9
K0383.20660	B	M6	3	60,1	4	3	9
K0383.20680	B	M6	3	80,1	4	3	9
K0383.20810	B	M8	4,1	10,3	5,5	4	10
K0383.20812	B	M8	4,1	12,3	5,5	4	10
K0383.20816	B	M8	4,1	16,3	5,5	4	15
K0383.20820	B	M8	4,1	20,3	5,5	4	15
K0383.20825	B	M8	4,1	25,3	5,5	4	15
K0383.20830	B	M8	4,1	30,3	5,5	4	15
K0383.20850	B	M8	4,1	50,3	5,5	4	15
K0383.20860	B	M8	4,1	60,3	5,5	4	15
K0383.20880	B	M8	4,1	80,3	5,5	4	15
K0383.21012	B	M10	5,6	12,3	7	5	20
K0383.21016	B	M10	5,6	16,3	7	5	20
K0383.21020	B	M10	5,6	20,3	7	5	20
K0383.21025	B	M10	5,6	25,3	7	5	20
K0383.21035	B	M10	5,6	35,3	7	5	20
K0383.21216	B	M12	7	16,2	8,5	6	30
K0383.21220	B	M12	7	20,2	8,5	6	30
K0383.21230	B	M12	7	30,2	8,5	6	30
K0383.21240	B	M12	7	40,2	8,5	6	30
K0383.21620	B	M16	10,7	20	12	8	60
K0383.21625	B	M16	10,7	25	12	8	60
K0383.21635	B	M16	10,7	35	12	8	60
K0383.21650	B	M16	10,7	50	12	8	60
K0383.22030	B	M20	13,5	30	15	10	90
K0383.22040	B	M20	13,5	40	15	10	90
K0383.22060	B	M20	13,5	60	15	10	90
K0383.22435	B	M24	15,8	35	18	12	120
K0383.22450	B	M24	15,8	50	18	12	120
K0383.22480	B	M24	15,8	80	18	12	120

Ball-end thrust screws without head

stainless steel with flattened ball





KIPP Ball-end thrust screws without head, stainless steel with flattened ball

Order No.	D1	D3	L2	Ball-Ø	SW
K0384.2046	M4	1,4	5,8	2,5	2
K0384.2048	M4	1,4	7,8	2,5	2
K0384.20410	M4	1,4	9,8	2,5	2
K0384.20412	M4	1,4	11,8	2,5	2
K0384.20416	M4	1,4	15,8	2,5	2
K0384.2058	M5	2	7,6	3	2,5
K0384.20510	M5	2	9,6	3	2,5
K0384.20512	M5	2	11,6	3	2,5
K0384.20516	M5	2	15,6	3	2,5
K0384.20520	M5	2	19,6	3	2,5
K0384.20525	M5	2	24,6	3	2,5
K0384.20610	M6	3	10,1	4	3
K0384.20612	M6	3	12,1	4	3
K0384.20616	M6	3	16,1	4	3
K0384.20620	M6	3	20,1	4	3
K0384.20625	M6	3	25,1	4	3
K0384.20650	M6	3	50,1	4	3
K0384.20660	M6	3	60,1	4	3
K0384.20680	M6	3	80,1	4	3
K0384.20810	M8	4,1	10,3	5,5	4
K0384.20812	M8	4,1	12,3	5,5	4
K0384.20816	M8	4,1	16,3	5,5	4
K0384.20820	M8	4,1	20,3	5,5	4
K0384.20825	M8	4,1	25,3	5,5	4
K0384.20830	M8	4,1	30,3	5,5	4
K0384.20850	M8	4,1	50,3	5,5	4
K0384.20860	M8	4,1	60,3	5,5	4
K0384.20880	M8	4,1	80,3	5,5	4
K0384.21012	M10	5,6	12,3	7	5
K0384.21016	M10	5,6	16,3	7	5
K0384.21020	M10	5,6	20,3	7	5
K0384.21025	M10	5,6	25,3	7	5
K0384.21035	M10	5,6	35,3	7	5
K0384.21216	M12	7	16,2	8,5	6
K0384.21220	M12	7	20,2	8,5	6
K0384.21230	M12	7	30,2	8,5	6
K0384.21240	M12	7	40,2	8,5	6
K0384.21620	M16	10,7	20	12	8
K0384.21625	M16	10,7	25	12	8
K0384.21635	M16	10,7	35	12	8
K0384.21650	M16	10,7	50	12	8

Material:
Screw and ball stainless steel.

Version:
Stainless steel bright.

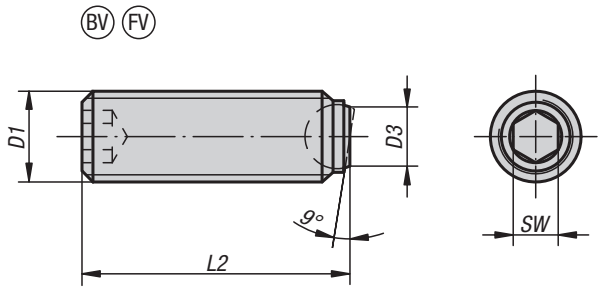
Sample order:
K0384.2046

Note:
Surfaces which are not flat and parallel can be firmly clamped or supported with with a flattened ball, the movable ball can adapt itself up to 9°.
Longer versions have been designed especially to be glued in. This allows mechanical connecting elements with external thread to be made cost-effectively for small and medium-sized series.

Ball-end thrust screws without head

with flattened ball and rotation lock





Material:
Screw carbon steel, grade 10.9
Ball, ball-bearing steel.

Version:
Screw black. Ball hardened, bright.

Sample order:
K0383.50820

Note:
Surfaces which are not flat and parallel can be firmly clamped or supported with with a flattened ball, the movable ball can adapt itself up to 9°.
Longer versions have been designed especially to be glued in. This allows mechanical connecting elements with external thread to be made cost-effectively for small and medium-sized series.

Drawing reference:
Form BV: flattened ball non-rotating
Form FV: flattened ball diamond grip non-rotating

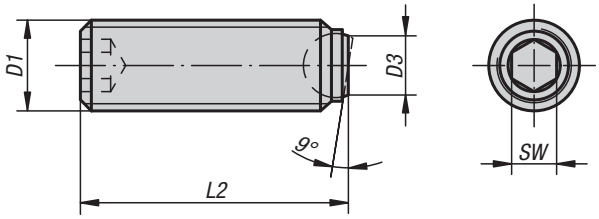
KIPP Ball-end thrust screws without head, with flattened ball and rotation lock

Order No. Form BV	Order No. Form FV	D1	D3	L2	Ball-Ø	SW	Load rating max. kN (static load only)
K0383.50612	-	M6	3	12,1	4	3	6
K0383.50616	-	M6	3	16,1	4	3	6
K0383.50620	-	M6	3	20,1	4	3	6
K0383.50625	-	M6	3	25,1	4	3	6
K0383.50816	K0383.60816	M8	4,1	16,3	5,5	4	9
K0383.50820	K0383.60820	M8	4,1	20,3	5,5	4	9
K0383.50825	K0383.60825	M8	4,1	25,3	5,5	4	9
K0383.50830	K0383.60830	M8	4,1	30,3	5,5	4	9
K0383.51020	K0383.61020	M10	5,6	20,3	7	5	12
K0383.51025	K0383.61025	M10	5,6	25,3	7	5	12
K0383.51035	K0383.61035	M10	5,6	35,3	7	5	12
K0383.51040	K0383.61040	M10	5,6	40,2	7	5	12
K0383.51220	K0383.61220	M12	7	20,2	8,5	6	18
K0383.51230	K0383.61230	M12	7	30,2	8,5	6	18
K0383.51240	K0383.61240	M12	7	40,2	8,5	6	18
K0383.51250	K0383.61250	M12	7	50	8,5	6	18
K0383.51635	K0383.61635	M16	10,7	35	12	8	36
K0383.51650	K0383.61650	M16	10,7	50	12	8	36
K0383.52030	K0383.62030	M20	13,5	30	15	10	60
K0383.52040	K0383.62040	M20	13,5	40	15	10	60
K0383.52050	K0383.62050	M20	13,5	50	15	10	60
K0383.52060	K0383.62060	M20	13,5	60	15	10	60
K0383.52435	K0383.62435	M24	15,8	35	18	12	80
K0383.52450	K0383.62450	M24	15,8	50	18	12	80
K0383.52480	K0383.62480	M24	15,8	80	18	12	80

Ball-end thrust screws without head

stainless steel with flattened ball and rotation lock





Material:
Screw and ball stainless steel.

Version:
Stainless steel bright.

Sample order:
K0384.50612

Note:
Surfaces which are not flat and parallel can be firmly clamped or supported with with a flattened ball, the movable ball can adapt itself up to 9°.
Longer versions have been designed especially to be glued in. This allows mechanical connecting elements with external thread to be made cost-effectively for small and medium-sized series. Ball is protected against torsion.

KIPP Ball-end thrust screws without head stainless steel with flattened ball and rotation lock

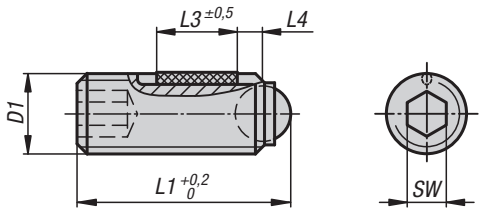
Order No.	D1	D3	L2	Ball-Ø	SW
K0384.50612	M6	3	12,1	4	3
K0384.50616	M6	3	16,1	4	3
K0384.50620	M6	3	20,1	4	3
K0384.50625	M6	3	25,1	4	3
K0384.50816	M8	4,1	16,3	5,5	4
K0384.50820	M8	4,1	20,3	5,5	4
K0384.50825	M8	4,1	25,3	5,5	4
K0384.50830	M8	4,1	30,3	5,5	4
K0384.51020	M10	5,6	20,3	7	5
K0384.51025	M10	5,6	25,3	7	5
K0384.51035	M10	5,6	35,3	7	5
K0384.51040	M10	5,6	40,2	7	5
K0384.51220	M12	7	20,2	8,5	6
K0384.51230	M12	7	30,2	8,5	6
K0384.51240	M12	7	40,2	8,5	6
K0384.51250	M12	7	50	8,5	6
K0384.51635	M16	10,7	35	12	8
K0384.51650	M16	10,7	50	12	8

Ball-end thrust screws without head

with full ball, LONG-LOK secured



Ⓐ Ⓓ



Note:
Ball-end thrust screws with full ball are used when a clean, polished contact surface is required.

Drawing reference:
Form A: steel ball
Form D: POM ball

L4 = approx. 2x pitch

Material:
Screw carbon steel, grade 10.9
Ball, ball-bearing steel or POM.
LONG-LOK thread lock nylon.

Version:
Screw black.
Ball hardened, bright.

Sample order:
K0666.1046

KIPP Ball-end thrust screws without head, with full ball, LONG-LOK secured

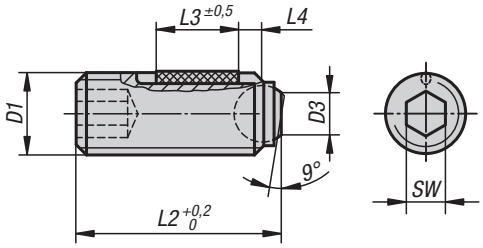
Order No. Form A	Order No. Form D	D1	L1	L3	Ball-Ø	SW	Load rating max. kN (static load only)
K0666.1046	K0666.3046	M4	6	2,5	2,5	2	3,5/0,3
K0666.10410	K0666.30410	M4	10	3,5	2,5	2	3,5/0,3
K0666.10416	K0666.30416	M4	16	5	2,5	2	3,5/0,3
K0666.1058	K0666.3058	M5	8	3,5	3	2,5	4,5/0,5
K0666.10512	K0666.30512	M5	12	5	3	2,5	4,5/0,5
K0666.10520	K0666.30520	M5	20	6	3	2,5	4,5/0,5
K0666.10610	K0666.30610	M6	10,8	3,5	4	3	9/0,9
K0666.10616	K0666.30616	M6	16,8	7	4	3	9/0,9
K0666.10620	K0666.30620	M6	20,8	7	4	3	9/0,9
K0666.10625	K0666.30625	M6	25,8	7	4	3	9/0,9
K0666.10650	-	M6	50,8	7	4	3	9
K0666.10660	-	M6	60,8	7	4	3	9
K0666.10810	K0666.30810	M8	11,2	3,5	5,5	4	10/1,5
K0666.10812	K0666.30812	M8	13,2	5	5,5	4	10/1,5
K0666.10820	K0666.30820	M8	21,2	8	5,5	4	15/1,5
K0666.10825	K0666.30825	M8	26,2	8	5,5	4	15/1,5
K0666.10830	K0666.30830	M8	31,2	8	5,5	4	15/1,5
K0666.10850	-	M8	51,2	8	5,5	4	15
K0666.10860	-	M8	61,2	8	5,5	4	15
K0666.10880	-	M8	81,2	8	5,5	4	15
K0666.11012	K0666.31012	M10	13,7	5	7	5	20/2
K0666.11016	K0666.31016	M10	17,7	9	7	5	20/2
K0666.11020	K0666.31020	M10	21,7	9	7	5	20/2
K0666.11025	K0666.31025	M10	26,7	9	7	5	20/2
K0666.11035	K0666.31035	M10	36,7	9	7	5	20/2
K0666.11216	K0666.31216	M12	18	8	8,5	6	30/3
K0666.11220	K0666.31220	M12	22	10	8,5	6	30/3
K0666.11230	K0666.31230	M12	32	10	8,5	6	30/3
K0666.11240	K0666.31240	M12	42	10	8,5	6	30/3
K0666.11620	-	M16	23,3	10	12	8	60
K0666.11625	-	M16	28,3	14	12	8	60
K0666.11635	-	M16	38,3	14	12	8	60
K0666.11650	-	M16	53,3	14	12	8	60

Ball-end thrust screws without head

with flattened ball LONG-LOK secured



Ⓑ



Material:
Screw carbon steel, grade 10.9
Ball, ball-bearing steel.
LONG-LOK thread lock nylon.

Version:
Screw black. Ball hardened, bright.

Sample order:
K0666.20610

Note:
Surfaces which are not flat and parallel can be firmly clamped or supported with a flattened ball, the movable ball can adapt itself up to 9°.

Drawing reference:
Form B: with flattened ball

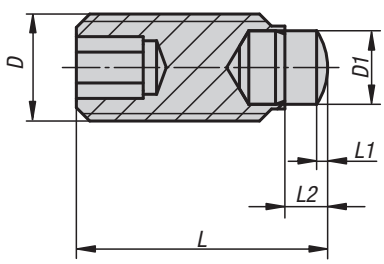
L4 = approx. 2x pitch

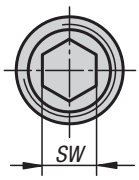
KIPP Ball-end thrust screws without head, with flattened ball, steel, LONG-LOK secured

Order No. Form B	D1	D3	L2	L3	Ball-Ø	SW	Load rating max. kN (static load only)
K0666.20610	M6	3	10,1	3,5	4	3	9
K0666.20616	M6	3	16,1	7	4	3	9
K0666.20620	M6	3	20,1	7	4	3	9
K0666.20625	M6	3	25,1	7	4	3	9
K0666.20650	M6	3	50,1	7	4	3	9
K0666.20660	M6	3	60,1	7	4	3	9
K0666.20810	M8	4,1	10,3	3,5	5,5	4	10
K0666.20812	M8	4,1	12,3	5	5,5	4	10
K0666.20820	M8	4,1	20,3	8	5,5	4	15
K0666.20825	M8	4,1	25,3	8	5,5	4	15
K0666.20830	M8	4,1	30,3	8	5,5	4	15
K0666.20850	M8	4,1	50,3	8	5,5	4	15
K0666.20860	M8	4,1	60,3	8	5,5	4	15
K0666.20880	M8	4,1	80,3	8	5,5	4	15
K0666.21012	M10	5,6	12,3	5	7	5	20
K0666.21016	M10	5,6	16,3	9	7	5	20
K0666.21020	M10	5,6	20,3	9	7	5	20
K0666.21025	M10	5,6	25,3	9	7	5	20
K0666.21035	M10	5,6	35,3	9	7	5	20
K0666.21216	M12	7	16,2	8	8,5	6	30
K0666.21220	M12	7	20,2	10	8,5	6	30
K0666.21230	M12	7	30,2	10	8,5	6	30
K0666.21240	M12	7	40,2	10	8,5	6	30
K0666.21620	M16	10,7	20	10	12	8	60
K0666.21625	M16	10,7	25	14	12	8	60
K0666.21635	M16	10,7	35	14	12	8	60
K0666.21650	M16	10,7	50	14	12	8	60

Thrust screws with rounded half-dog point







Material:
Screw steel grade 10.9.
Pin tool steel.

Version:
Pin, hardened.
Screw and pin black oxidised.

Sample order:
K0403.05X09

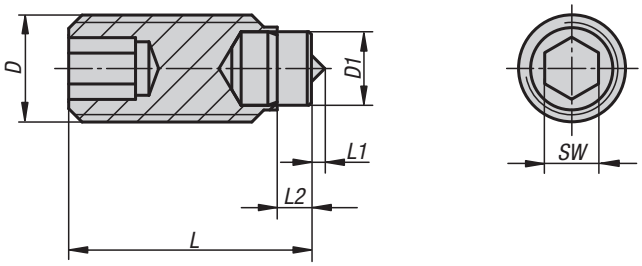
Note:
These rounded half-dog point thrust screws are used when a punctiform thrust or support point are required.

KIPP Thrust screws with rounded half-dog point

Order No.	D	D1	L	L1	L2	SW	Load rating max. kN (static load only)
K0403.05X09	M5	3	9	0,5	1,8	2,5	4,5
K0403.05X13	M5	3	13	0,5	1,8	2,5	4,5
K0403.05X17	M5	3	17	0,5	1,8	2,5	4,5
K0403.05X21	M5	3	21	0,5	1,8	2,5	4,5
K0403.06X14	M6	4	14,3	0,8	2,7	3	9
K0403.06X18	M6	4	18,3	0,8	2,7	3	9
K0403.06X22	M6	4	22,3	0,8	2,7	3	9
K0403.06X27	M6	4	27,3	0,8	2,7	3	9
K0403.08X15	M8	5,5	14,8	0,8	3,2	4	15
K0403.08X19	M8	5,5	18,8	0,8	3,2	4	15
K0403.08X23	M8	5,5	22,8	0,8	3,2	4	15
K0403.08X28	M8	5,5	27,8	0,8	3,2	4	15
K0403.08X35	M8	5,5	34,8	0,8	3,2	4	15
K0403.10X19	M10	7	18,9	1,1	3,5	5	20
K0403.10X23	M10	7	22,9	1,1	3,5	5	20
K0403.10X28	M10	7	27,9	1,1	3,5	5	20
K0403.10X35	M10	7	34,9	1,1	3,5	5	20
K0403.10X43	M10	7	42,9	1,1	3,5	5	20

Thrust screws with point





Material:
Screw steel grade 10.9.
Pin tool steel.

Version:
Pin, hardened.
Screw and pin black oxidised.

Sample order:
K0272.05X09

Note:
These thrust screws with point are used when additional positive fixation is required.

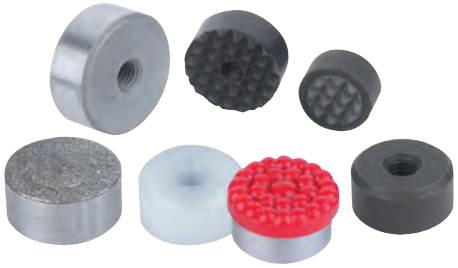
KIPP Thrust screws with point

Order No.	D	D1	L	L1	L2	SW	Load rating max. kN (static load only)
K0272.05X09	M5	3	8,5	0,5	1,3	2,5	4,5
K0272.05X13	M5	3	12,5	0,5	1,3	2,5	4,5
K0272.05X17	M5	3	16,5	0,5	1,3	2,5	4,5
K0272.05X21	M5	3	20,5	0,5	1,3	2,5	4,5
K0272.06X14	M6	4	13,5	0,8	1,9	3	9
K0272.06X18	M6	4	17,5	0,8	1,9	3	9
K0272.06X22	M6	4	21,5	0,8	1,9	3	9
K0272.06X27	M6	4	26,5	0,8	1,9	3	9
K0272.08X14	M8	5,5	14	1	2,4	4	15
K0272.08X18	M8	5,5	18	1	2,4	4	15
K0272.08X22	M8	5,5	22	1	2,4	4	15
K0272.08X27	M8	5,5	27	1	2,4	4	15
K0272.08X34	M8	5,5	34	1	2,4	4	15
K0272.10X18	M10	7	18	1,5	2,6	5	20
K0272.10X22	M10	7	22	1,5	2,6	5	20
K0272.10X27	M10	7	27	1,5	2,6	5	20
K0272.10X34	M10	7	34	1,5	2,6	5	20
K0272.10X42	M10	7	42	1,5	2,6	5	20

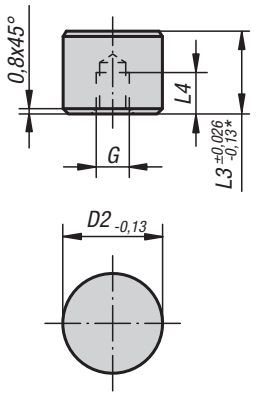
Notes

Grippers and inserts

round

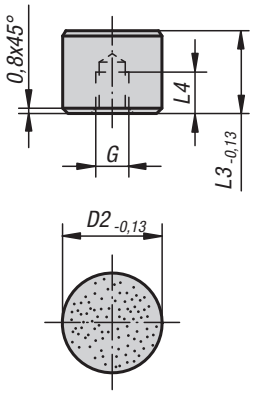


Form C, E, K

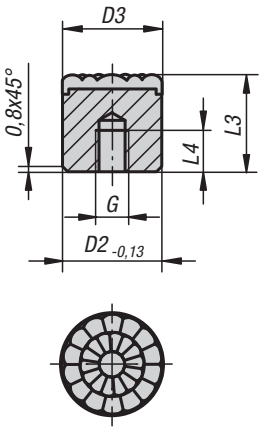


* Applies to Form K

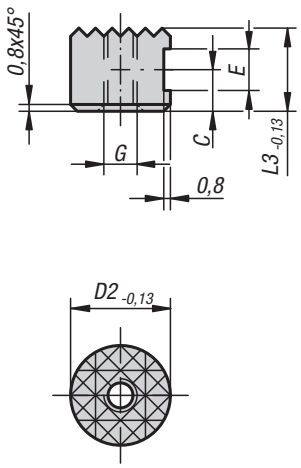
Form O
stainless steel insert
diamond impregnated



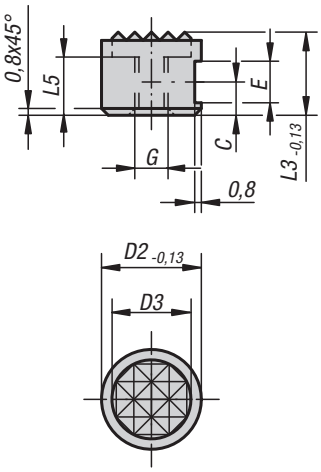
Form P
stainless steel insert,
PUR surface



Form F
diamond grip insert



Form M
carbide steel
diamond grip insert



Material:
Form C, F, M tool steel
Form E, O, P stainless steel
Form K POM

Version:
Form C hardened and black oxidised.
Form E hardened, bright.
Form K white.
Form O with diamond impregnated surface comparable to 100 grade abrasive grit.
Form P with polyurethane surface, hardness 60 Shore.
Form F, hardened and black oxidised.
Form M with carbide serrations, black oxidised.

Sample order:
K0385.2510

Note:
Grippers and inserts are ideal for use in clamping arms, gripping systems, clamping fixtures, clamping jaws and self-aligning pads. The use of grippers allows the transfer of very high torque values and above average grip, even with hard materials and surface irregularities.

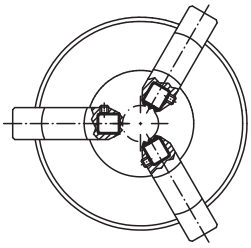
Form O: The abrasive diamond surface is bonded firmly to the base. It is ideally suited to supporting smooth or slippery applications with a minimum of clamping pressure. This allows the diamond particles to get a firm grip on a very small area with minimum damage to the surface.
The diamond surface offers excellent wear resistance.

Form P: The polyurethane surface is vulcanised firmly to the ball. It is abrasion-resistant and does not discolour. It offers optimum protection against damage to delicate surfaces. The pearl-like surface gives a firm grip and allows air to escape so as to prevent any suction effect between the contact surface and the self-aligning pads.

Grippers and inserts can be fitted in the following self-aligning pads:
Order No. K0285.117X022 up to K0285.936X036
Order No. K0289.110X015 up to K0289.924X100
Order No. K0291.120X030 up to K0291.924X080

Grippers and inserts

round



KIPP Round inserts Form C, E, K, O

Order No. Form C	Order No. Form E	Order No. Form K	Order No. Form O	D2	L3	L4	G
K0385.10108	K0385.10102	K0385.10109	K0385.10105	10	10	5	M5
K0385.10128	K0385.10122	K0385.10129	K0385.10125	10	12	6,4	M5
K0385.12108	K0385.12102	K0385.12109	K0385.12105	12	10	5	M5
K0385.12128	K0385.12122	K0385.12129	K0385.12125	12	12	6,4	M5
K0385.16108	K0385.16102	K0385.16109	K0385.16105	16	10	5	M6
K0385.16128	K0385.16122	K0385.16129	K0385.16125	16	12	6,4	M6
K0385.20108	K0385.20102	K0385.20109	K0385.20105	20	10	5	M6
K0385.20128	K0385.20122	K0385.20129	K0385.20125	20	12	6,4	M6
K0385.25108	K0385.25102	K0385.25109	K0385.25105	25	10	5	M6
K0385.25128	K0385.25122	K0385.25129	K0385.25125	25	12	6,4	M6

KIPP Round inserts Form P

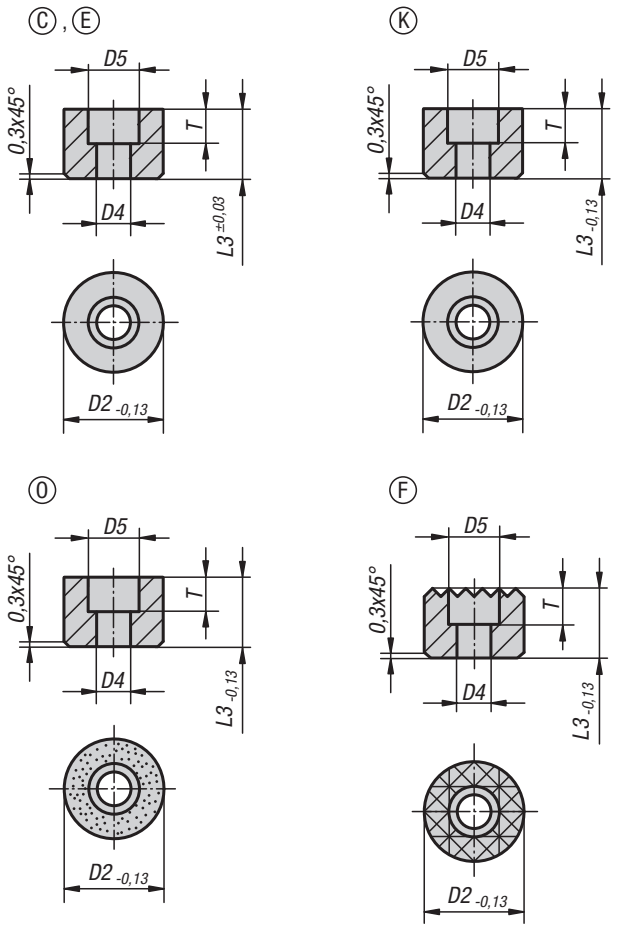
Order No.	Form	D2	D3	L3	L4	G
K0385.08126	P	8	8	12	6	M4
K0385.10126	P	10	10	12	6	M5
K0385.12126	P	12	13	12	6	M5
K0385.16126	P	16	16	12	6	M6
K0385.20126	P	20	21	12	6	M6
K0385.25126	P	25	27	12	6	M6

KIPP Grippers Form F, M

Order No. Form F	Order No. Form M	D2	D3	L3	L5	C	E	G
K0385.1010	K0385.10107	10	-/7,9	10	-/6	4,5	4,75	M5
K0385.1210	K0385.12107	12	-/9,5	10	-/6	4,5	4,75	M5
K0385.1212	K0385.12127	12	-/9,5	12	-/7	6	4,75	M5
K0385.1610	K0385.16107	16	-/12,7	10	-/6	4,5	4,75	M6
K0385.2010	K0385.20107	20	-/15,9	10	-/6	4,5	4,75	M6
K0385.2510	K0385.25107	25	-/19	10	-/6	4,5	4,75	M6

Grippers and inserts

round, with counterbore





Material:
Form C, F tool steel
Form E, O stainless steel
Form K POM

Version:
Form C, F hardened and black oxidised.
Form E, hardened, bright.
Form K white.
Form O with diamond impregnated surface comparable to 100 grade abrasive grit.

Sample order:
K0385.110108

Note:
Grippers and inserts are ideal for use in clamping arms, gripping systems, clamping fixtures, clamping jaws and self-aligning pads. The use of grippers allows the transfer of very high torque values and above average grip, even with hard materials and surface irregularities.

Form O: The abrasive diamond surface is bonded firmly to the base. It is ideally suited to supporting smooth or slippery applications with a minimum of clamping pressure. This allows the diamond particles to get a firm grip on a very small area with minimum damage to the surface. The diamond surface offers excellent wear resistance.

KIPP Round inserts

Order No. Form C	Order No. Form E	Order No. Form K	Order No. Form O	D2	D4	D5	L3	T
K0385.110108	**K0385.110102**	**K0385.110109**	**K0385.110105**	10	3,4	6	10	5
K0385.110128	**K0385.110122**	**K0385.110129**	**K0385.110125**	10	3,4	6	12	5
K0385.112108	**K0385.112102**	**K0385.112109**	**K0385.112105**	12	4,5	9	10	5,6
K0385.112128	**K0385.112122**	**K0385.112129**	**K0385.112125**	12	4,5	9	12	5,6
K0385.116108	**K0385.116102**	**K0385.116109**	**K0385.116105**	16	5,5	11	10	6,6
K0385.116128	**K0385.116122**	**K0385.116129**	**K0385.116125**	16	5,5	11	12	6,6
K0385.120108	**K0385.120102**	**K0385.120109**	**K0385.120105**	20	6,6	11	10	7,6
K0385.120128	**K0385.120122**	**K0385.120129**	**K0385.120125**	20	6,6	11	12	7,6
K0385.125108	**K0385.125102**	**K0385.125109**	**K0385.125105**	25	6,6	11	10	7,6
K0385.125128	**K0385.125122**	**K0385.125129**	**K0385.125125**	25	6,6	11	12	7,6

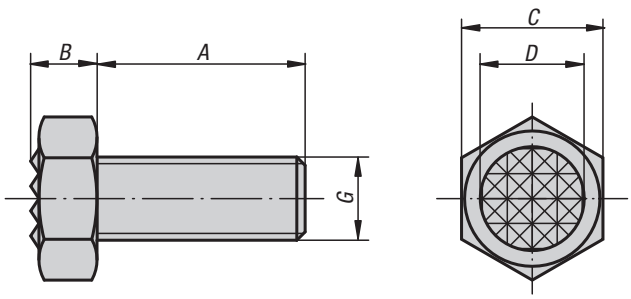
KIPP Round grippers

Order No. Form F	D2	D4	D5	L3	T
K0385.11210	12	4,5	8	10	5,6
K0385.11212	12	4,5	8	12	5,6
K0385.11610	16	4,5	8	10	5,6
K0385.11612	16	4,5	8	12	5,6
K0385.12010	20	5,5	10	10	6,6
K0385.12012	20	5,5	10	12	6,6
K0385.12510	25	6,6	11	10	7,6
K0385.12512	25	6,6	11	12	7,6

Gripper screws

hexagonal





Material:
Hex head screw, grade 10.9.
Serrations carbide, hardness 72-74 HRC.

Version:
Black oxidised.

Sample order:
K0386.1710

Note:
The serrated carbide tips are soldered in.

KIPP Gripper screws hex head

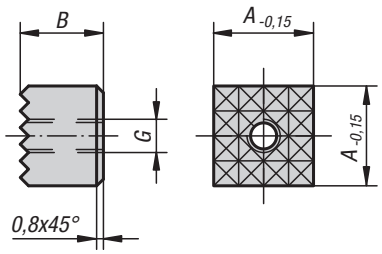
Order No.	A	B	C	D	G	Serration
K0386.1006	25	5	10	7,9	M6	extra fine
K0386.1308	25	6,4	13	9,5	M8	fine
K0386.1710	25	8,3	17	12,7	M10	fine
K0386.17102	40	8,3	17	12,7	M10	fine
K0386.1912	25	8,7	19	15,9	M12	fine
K0386.19122	40	8,7	19	15,9	M12	fine
K0386.2416	35	11	24	19	M16	fine
K0386.24162	50	11	24	19	M16	fine
K0386.3020	40	13,7	30	25,4	M20	extra fine
K0386.30202	60	13,7	30	25,4	M20	extra fine

Gripper pads

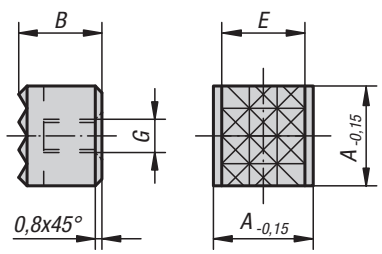
square



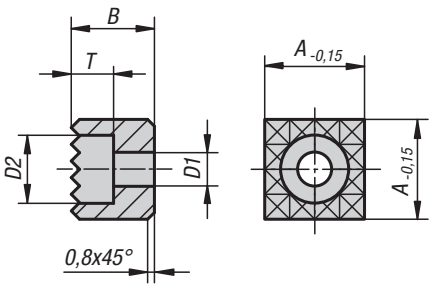
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Material:
Hardened tool steel or carbide.

Version:
Black oxidised.

Sample order:
K0387.2506

Note:
Grippers and inserts are ideal for use in clamping arms, gripping systems, clamping fixtures, clamping jaws and self-aligning pads.
Grippers transfer very high torque values,even with hard materials and surface irregularities. Grippers guarantee above average holding forces at high cutting forces.
The serrated carbide tips are soldered in.

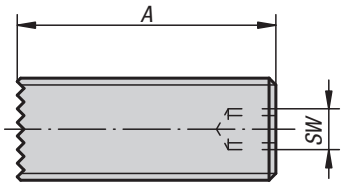
Drawing reference:
Form A: tool steel
Form B: tool steel, carbide diamond grip
Form C: tool steel

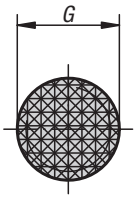
KIPP Grippers square

Order No.	Form	A	B	D1	D2	E	G	T	Serration
K0387.1005	A	10	10	-	-	-	M5	-	extra fine
K0387.101205	A	10	12	-	-	-	M5	-	extra fine
K0387.1205	A	12	10	-	-	-	M5	-	fine
K0387.121205	A	12	12	-	-	-	M5	-	fine
K0387.1606	A	16	10	-	-	-	M6	-	fine
K0387.161206	A	16	12	-	-	-	M6	-	fine
K0387.2005	A	20	10	-	-	-	M5	-	fine
K0387.201205	A	20	12	-	-	-	M5	-	fine
K0387.2506	A	25	10	-	-	-	M6	-	fine
K0387.251206	A	25	12	-	-	-	M6	-	fine
K0387.12057	B	12	10	-	-	10,3	M5	-	fine
K0387.1210048	C	12	10	4,5	8	-	-	5,6	fine
K0387.1212048	C	12	12	4,5	8	-	-	5,6	fine
K0387.1610048	C	16	10	4,5	8	-	-	5,6	fine
K0387.1612048	C	16	12	4,5	8	-	-	5,6	fine
K0387.2010058	C	20	10	5,5	10	-	-	6,6	fine
K0387.2012058	C	20	12	5,5	10	-	-	6,6	fine
K0387.2510068	C	25	10	6,6	11	-	-	7,6	fine
K0387.2512068	C	25	12	6,6	11	-	-	7,6	fine

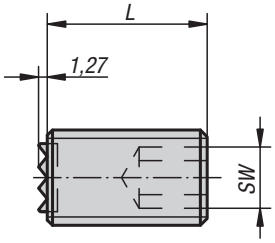
Gripper studs

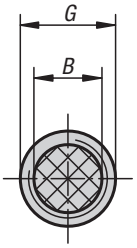
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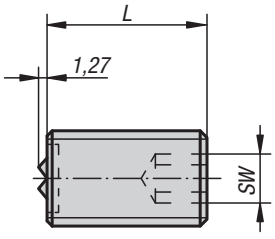


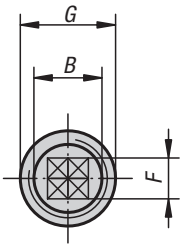
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Material:
Hardened tool steel or carbide.

Version:
Black oxidised.

Sample order:
K0388.5012

Note:
The full thread on the grippers allows exact adjustment to the clamping application.
The carbide tips are soldered in.

Drawing reference:
Form A: tool steel
Form B: tool steel, carbide diamond grip
Form C: 4-point carbide insert

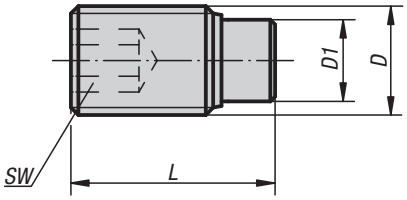


KIPP Gripper studs

Order No.	Form	A	L	B	G	F	SW
K0388.4010	A	40	-	-	M10	-	3
K0388.4012	A	40	-	-	M12	-	5
K0388.4016	A	40	-	-	M16	-	6
K0388.4020	A	40	-	-	M20	-	8
K0388.2510	B	-	25	6,4	M10	-	5
K0388.5010	B	-	50	6,4	M10	-	5
K0388.2512	B	-	25	7,9	M12	-	6
K0388.5012	B	-	50	7,9	M12	-	6
K0388.2516	B	-	25	11,2	M16	-	8
K0388.5016	B	-	50	11,2	M16	-	8
K0388.2520	B	-	25	12,7	M20	-	10
K0388.5020	B	-	50	12,7	M20	-	10
K0388.25124	C	-	25	7,9	M12	6,5	6
K0388.50124	C	-	50	7,9	M12	6,5	6
K0388.25164	C	-	25	11,2	M16	8	8
K0388.50164	C	-	50	11,2	M16	8	8
K0388.25204	C	-	25	12,7	M20	8	10
K0388.50204	C	-	50	12,7	M20	8	10

Thrust screws



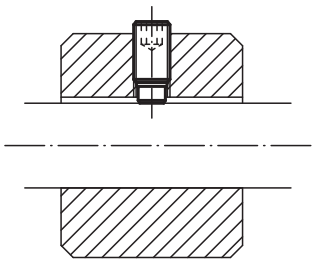


Material:
Screw grade 10.9.
Pin brass or POM.

Version:
Screw black oxidised.

Sample order:
K0389.04X105 (include length L.)

Note:
Thrust screws are ideal for clamping or exerting pressure on threaded spindles, axles, shafts and treated surfaces without marring.



KIPP Thrust screws

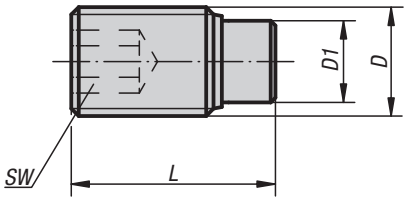
Order No.	Component material	D	D1	L	SW
K0389.04X	brass	M4	2,5	6,5/10,5/16,5/30,5/40,5	2
K0389.05X	brass	M5	3	8,5/12,5/20,5/30,5/40,5	2,5
K0389.06X	brass	M6	4	11,5/17,5/26,5/41,5/51,5/61,5	3
K0389.08X	brass	M8	5,5	12/22/32/52/62/82	4
K0389.10X	brass	M10	7	14/18/27/37/52/62/82	5
K0389.12X	brass	M12	8,5	18,5/22,5/32,5/42,5/52,5/62,5/82,5	6

Order No.	Component material	D	D1	L	SW
K0389.104X	Polyacetal	M4	2	7/9/11/13/17/31/41	2
K0389.105X	Polyacetal	M5	3	9/11/13/17/21/31/41	2,5
K0389.106X	Polyacetal	M6	3,5	11,3/13,3/17,3/21,3/26,3/41,3/51,3/61,3	3
K0389.108X	Polyacetal	M8	5	13,6/17,6/21,6/26,6/33,6/51,6/61,6/81,6	4
K0389.110X	Polyacetal	M10	6,5	17,9/21,9/26,9/33,9/41,9/51,9/61,9/81,9	5
K0389.112X	Polyacetal	M12	8	22,1/27,1/34,1/42,1/52,1/62,1/82,1	6

Thrust screws

stainless steel





Material:
Screw stainless steel.
Pin brass or POM.

Version:
Screw bright.

Sample order:
K0667.041X105 (include length L.)

Note:
Thrust screws are ideal for clamping or exerting pressure on threaded spindles, axles, shafts and treated surfaces without marring.

KIPP Thrust screws, stainless steel

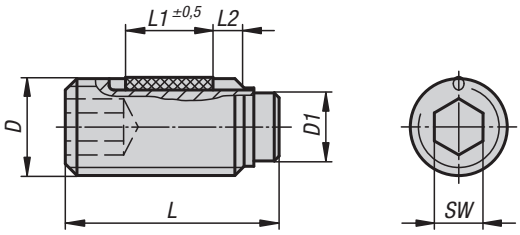
Order No.	Component material	D	D1	L	SW
K0667.041X	brass	M4	2,5	6,5/10,5/16,5/30,5/40,5	2
K0667.051X	brass	M5	3	8,5/12,5/20,5/30,5/40,5	2,5
K0667.061X	brass	M6	4	11,5/13,5/17,5/21,5/26,5/41,5/51,5/61,5	3
K0667.081X	brass	M8	5,5	12/22/32/52/62/82	4
K0667.101X	brass	M10	7	14/18/27/37	5
K0667.121X	brass	M12	8,5	22,5/32,5/42,5	6

Order No.	Component material	D	D1	L	SW
K0667.1041X	Polyacetal	M4	2	7/9/11/13/17/31/41	2
K0667.1051X	Polyacetal	M5	3	9/11/13/17/21/31/41	2,5
K0667.1061X	Polyacetal	M6	3,5	11,3/13,3/17,3/21,3/26,3/41,3/51,3/61,3	3
K0667.1081X	Polyacetal	M8	5	13,6/17,6/21,6/26,6/33,6/51,6/61,6/81,6	4
K0667.1101X	Polyacetal	M10	6,5	17,9/21,9/26,9/36,9	5
K0667.1121X	Polyacetal	M12	8	22,1/32,1/42,1	6

Thrust screws

LONG-LOK secured





Material:
Screw grade 10.9.
Pin brass or POM.
LONG-LOK thread lock nylon.

Version:
Screw black oxidised.

Sample order:
K0668.204X65 (include length L)

Note:
Thrust screws are ideal for clamping or exerting pressure on threaded spindles, axles, shafts and treated surfaces without marring.

Drawing reference:
L2 = approx. 2x thread pitch

KIPP Thrust screws, LONG-LOK secured

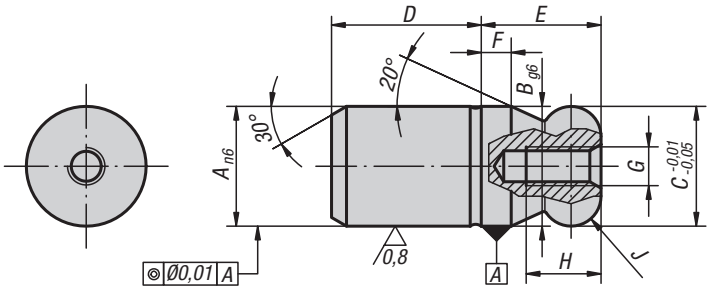
Order No.	Component material	D	D1	L (L1)	SW
K0668.204X	brass	M4	2,5	6,5 (2,5)/10,5 (3,5)/16,5 (5)/30,5 (5)/40,5 (5)	2
K0668.205X	brass	M5	3	8,5 (3,5)/12,5 (5)/20,5 (6)/30,5 (6)/40,5 (6)	2,5
K0668.206X	brass	M6	4	11,5 (3,5)/17,5 (7)/26,5 (7)/41,5 (7)/51,5 (7)/61,5 (7)	3
K0668.208X	brass	M8	5,5	12 (3,5)/22 (8)/32 (8)/52 (8)/62 (8)/82 (8)	4
K0668.210X	brass	M10	7	14 (5)/18 (9)/27 (9)/37 (9)/52 (9)/62 (9)/82 (9)	5
K0668.212X	brass	M12	8,5	18,5 (8)/22,5 (10)/32,5 (10)/42,5 (10)/52,5 (10)/62,5 (10)/82,5 (10)	6

Order No.	Component material	D	D1	L (L1)	SW
K0668.304X	Polyacetal	M4	2	7 (2,5)/9 (3,5)/11 (3,5)/13 (5)/17 (5)/31 (5)/41 (5)	2
K0668.305X	Polyacetal	M5	3	9 (3,5)/11 (3,5)/13 (5)/17 (6)/21 (6)/31 (6)/41 (6)	2,5
K0668.306X	Polyacetal	M6	3,5	11,3 (3,5)/13,3 (5)/17,3 (7)/21,3 (7)/26,3 (7)/41,3 (7)/51,3 (7)/61,3 (7)	3
K0668.308X	Polyacetal	M8	5	13,6 (5)/17,6 (8)/21,6 (8)/26,6 (8)/33,6 (8)/51,6 (8)/61,6 (8)/81,6 (8)	4
K0668.310X	Polyacetal	M10	6,5	17,9 (9)/21,9 (9)/26,9 (9)/33,9 (9)/41,9 (9)/51,9 (9)/61,9 (9)/81,9 (9)	5
K0668.312X	Polyacetal	M12	8	22,1 (10)/27,1 (10)/34,1 (10)/42,1 (10)/52,1 (10)/62,1 (10)/82,1 (10)	6

Locating pins

with ball-end Form A





Material:
Tool steel or stainless steel 1.4305.

Version:
Steel hardened and ground.
Stainless steel ground and kolsterised.

Sample order:
K0350.12

Note:
Ball end locating pins are specially designed to ease the locating process. The tendency to jam, caused by the locating hole not being at right angles to the pin or by the pushing force not being parallel to the pin axis, is minimized by the ball-end form (see illustration 1 for K0351 Form B)

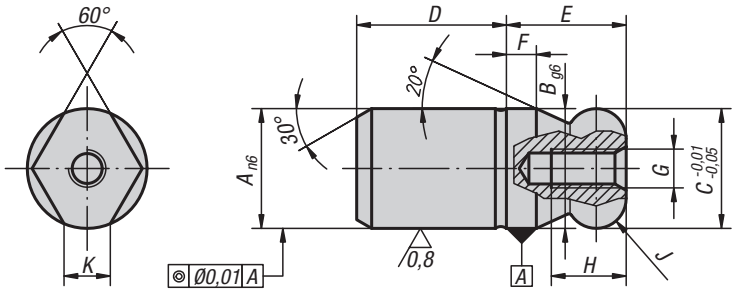
KIPP Locating pins with ball-end Form A

Order No. Tool steel	Order No. Stainless steel	A	B	C	D	E	F	G	H	J
K0350.05	**K0350.505**	5	5	5	6	5	2	M2,5	4,5	R 1
K0350.06	**K0350.506**	6	6	6	8	6	2	M3	5	R 1
K0350.08	**K0350.508**	8	8	8	10	8	2	M3	6	R 2
K0350.10	**K0350.510**	10	10	10	13	10	2,5	M3	6	R 2,5
K0350.12	**K0350.512**	12	12	12	15	12	3	M4	8	R 3
K0350.14	**K0350.514**	14	14	14	17	14	3,5	M4	8	R 3,5
K0350.16	**K0350.516**	16	16	16	20	16	4	M5	10	R 4
K0350.20	**K0350.520**	20	20	20	25	20	5	M5	10	R 5
K0350.25	-	25	25	25	25	25	6	M5	10	R 6
K0350.30	-	30	30	30	30	30	8	M6	12	R 8
K0350.40	-	40	40	40	40	40	10	M6	12	R 10
K0350.50	-	50	50	50	50	50	12	M6	12	R 12

Locating pins

with flattened ball end Form C





Material:
Tool steel or stainless steel 1.4305.

Version:
Steel hardened and ground.
Stainless steel ground and kolsterised.

Sample order:
K0350.162

Note:
Ball end locating pins are specially designed to ease the locating process. The tendency to jam, caused by the locating hole not being at right angles to the pin or by the pushing force not being parallel to the pin axis, is minimized by the ball-end form (see illustration 1 for K0351 Form B)

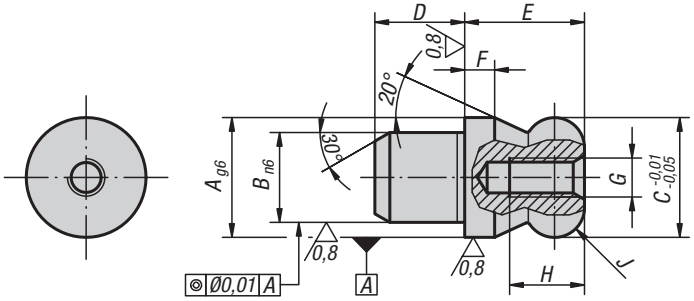
KIPP Locating pins with flattened ball-end Form C

Order No. Tool steel	Order No. Stainless steel	A	B	C	D	E	F	G	H	J	K
K0350.052	K0350.5052	5	5	5	6	5	2	M2,5	4,5	R 1	1,5
K0350.062	K0350.5062	6	6	6	8	6	2	M3	5	R 1	1,8
K0350.082	K0350.5082	8	8	8	10	8	2	M3	6	R 2	1,9
K0350.102	K0350.5102	10	10	10	13	10	2,5	M3	6	R 2,5	2,5
K0350.122	K0350.5122	12	12	12	15	12	3	M4	8	R 3	2,5
K0350.142	K0350.5142	14	14	14	17	14	3,5	M4	8	R 3,5	3,9
K0350.162	K0350.5162	16	16	16	20	16	4	M5	10	R 4	4,3
K0350.202	K0350.5202	20	20	20	25	20	5	M5	10	R 5	5
K0350.252	-	25	25	25	25	25	6	M5	10	R 6	5,6
K0350.302	-	30	30	30	30	30	8	M6	12	R 8	8,8
K0350.402	-	40	40	40	40	40	10	M6	12	R 10	12,8
K0350.502	-	50	50	50	50	50	12	M6	12	R 12	16,7

Locating pins

with ball-end Form B



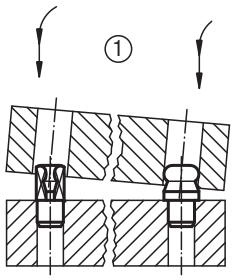


Material:
Tool steel or stainless steel 1.4305.

Version:
Steel hardened and ground.
Stainless steel ground and kolsterised.

Sample order:
K0351.20

Note:
Ball end locating pins are specially designed to ease the locating process. The tendency to jam, caused by the locating hole not being at right angles to the pin or by the pushing force not being parallel to the pin axis, is minimized by the ball-end form (see illustration 1).



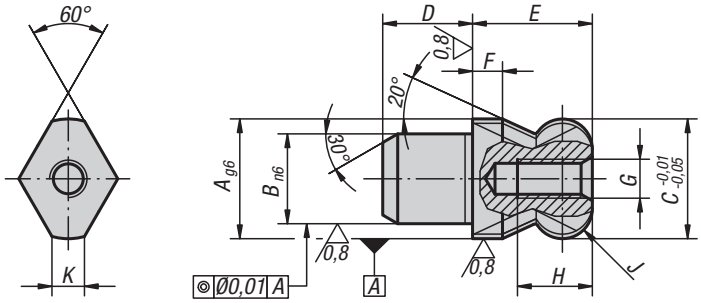
KIPP Locating pins with ball-end Form B

Order No. Tool steel	Order No. Stainless steel	A	B	C	D	E	F	G	H	J
K0351.06	K0351.506	6	4	6	4	6	2	M2,5	4,5	R 1
K0351.08	K0351.508	8	6	8	6	8	2	M3	6	R 2
K0351.10	K0351.510	10	7	10	7	10	2,5	M3	6	R 2,5
K0351.12	K0351.512	12	8	12	8	12	3	M4	8	R 3
K0351.14	K0351.514	14	10	14	10	14	3,5	M4	8	R 3,5
K0351.16	K0351.516	16	12	16	12	16	4	M5	10	R 4
K0351.20	K0351.520	20	14	20	14	20	5	M5	10	R 5
K0351.22	-	22	16	22	16	22	5,5	M5	10	R 5,5
K0351.25	-	25	18	25	18	25	6	M5	10	R 6

Locating pins

with flattened ball-end Form D





Material:
Tool steel or stainless steel 1.4305.

Version:
Steel hardened and ground.
Stainless steel ground and kolsterised.

Sample order:
K0351.162

Note:
Ball end locating pins are specially designed to ease the locating process. The tendency to jam, caused by the locating hole not being at right angles to the pin or by the pushing force not being parallel to the pin axis, is minimized by the ball-end form (see illustration 1 for K0351 Form B)

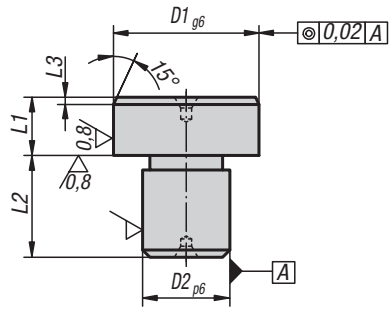
KIPP Locating pins with flattened ball-end Form D

Order No. Tool steel	Order No. Stainless steel	A	B	C	D	E	F	G	H	J	K
K0351.062	**K0351.5062**	6	4	6	4	6	2	M2,5	4,5	R 1	1,7
K0351.082	**K0351.5082**	8	6	8	6	8	2	M3	6	R 2	2
K0351.102	**K0351.5102**	10	7	10	7	10	2,5	M3	6	R 2,5	2,5
K0351.122	**K0351.5122**	12	8	12	8	12	3	M4	8	R 3	2,5
K0351.142	**K0351.5142**	14	10	14	10	14	3,5	M4	8	R 3,5	3,76
K0351.162	**K0351.5162**	16	12	16	12	16	4	M5	10	R 4	4,3
K0351.202	**K0351.5202**	20	14	20	14	20	5	M5	10	R 5	5
K0351.222	-	22	16	22	16	22	5,5	M5	10	R 5,5	5
K0351.252	-	25	18	25	18	25	6	M5	10	R 6	5,6

K0352

Positioning pins cylindrical

ground



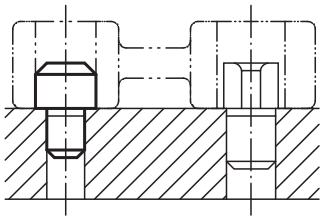


Material:
Tool steel.

Version:
Hardened and ground.

Sample order:
K0352.08

Note:
Top face with centre hole.



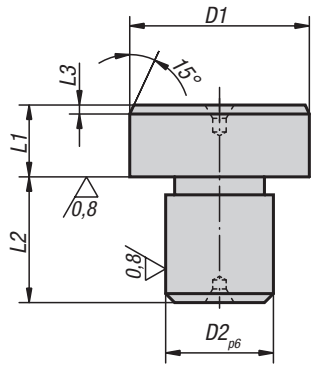
KIPP Cylindrical positioning pins, ground

Order No.	D1	D2	L1	L2	L3
K0352.05	8	5	8	8	2
K0352.07	10	7	8	8	2
K0352.08	12	8	8	10	2
K0352.081	14	8	8	10	3
K0352.09	16	9	8	12	3
K0352.12	18	12	8	12	3
K0352.121	20	12	8	14	3
K0352.14	22	14	8	14	3
K0352.16	25	16	8	16	3

K0353

Positioning pins cylindrical

not ground



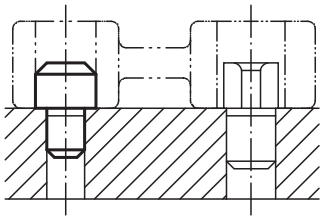


Material:
Tool steel.

Version:
Hardened.

Sample order:
K0353.05

Note:
Top face with centre hole.



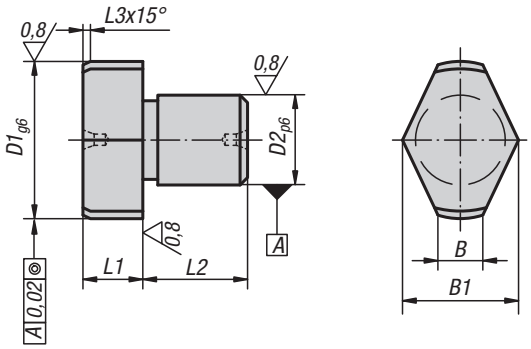
KIPP Cylindrical positioning pins, not ground

Order No.	D1	D2	L1	L2	L3
K0353.05	8,5	5	8	8	2
K0353.07	10,5	7	8	8	2
K0353.08	12,5	8	8	10	2
K0353.081	14,5	8	8	10	3
K0353.09	16,5	9	8	12	3
K0353.12	18,5	12	8	12	3
K0353.121	20,5	12	8	14	3
K0353.14	22,5	14	8	14	3
K0353.16	25,5	16	8	16	3

Positioning pins free-milled

ground



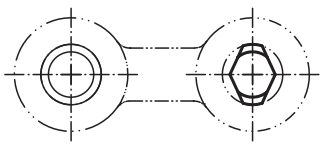


Material:
Tool steel.

Version:
Hardened and ground.

Sample order:
K0354.08

Note:
Top face with centre hole.



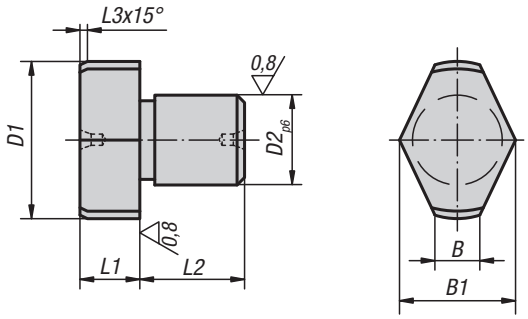
KIPP Free-milled positioning pins, ground

Order No.	D1	D2	L1	L2	L3	B	B1
K0354.05	8	5	8	8	2	2	6,6
K0354.07	10	7	8	8	2	3,0	8,6
K0354.08	12	8	8	10	2	3,0	9,8
K0354.081	14	8	8	10	3	3,5	11,2
K0354.09	16	9	8	12	3	4	13,2
K0354.12	18	12	8	12	3	4,5	14,7
K0354.121	20	12	8	14	3	5	16,6
K0354.14	22	14	8	14	3	5,6	18
K0354.16	25	16	8	16	3	6	19,8

Positioning pins free-milled

not ground



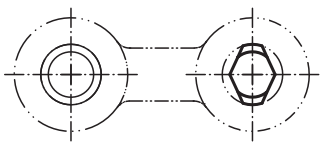


Material:
Tool steel.

Version:
Hardened.

Sample order:
K0355.05

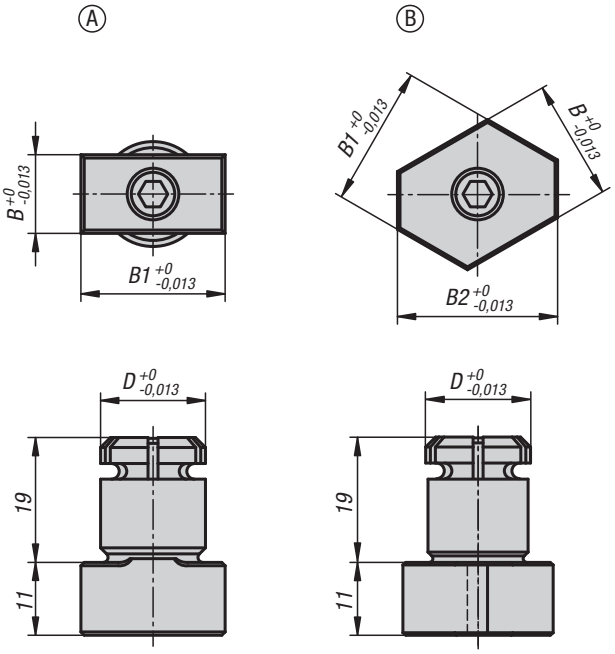
Note:
Top face with centre hole.

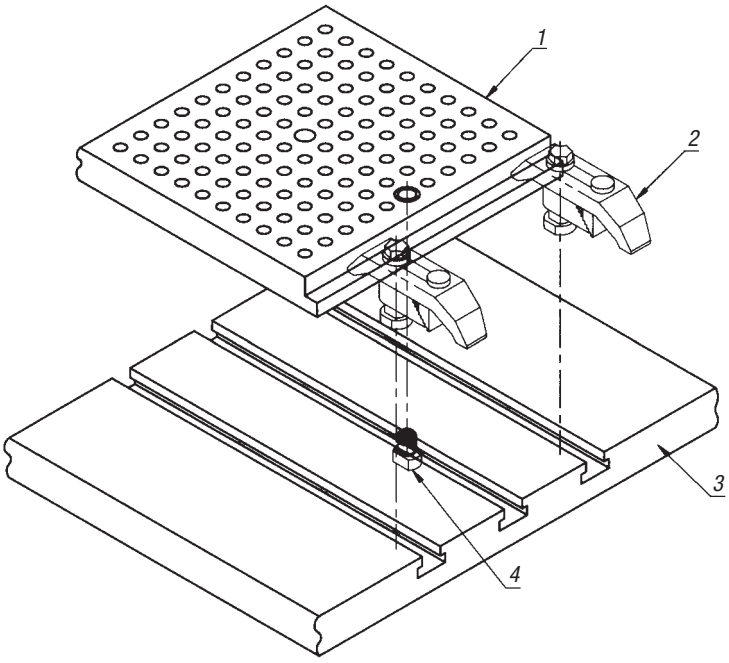


KIPP Free-milled positioning pins, not ground

Order No.	D1	D2	L1	L2	L3	B	B1
K0355.05	8,5	5	8	8	2	2	6,6
K0355.07	10,5	7	8	8	2	3,0	8,6
K0355.08	12,5	8	8	10	2	3,0	9,8
K0355.081	14,5	8	8	10	3	3,5	11,2
K0355.09	16,5	9	8	12	3	4	13,2
K0355.12	18,5	12	8	12	3	4,5	14,7
K0355.121	20,5	12	8	14	3	5	16,6
K0355.14	22,5	14	8	14	3	5,6	18
K0355.16	25,5	16	8	16	3	6	19,8

Locating pins expanding







Material:
Carbon steel.

Version:
Tempered and black oxidised.
Locating diameter and guide faces ground.

Sample order:
K0356.1610

Note:
These expanding locating pins enable e.g. tooling plates to be positioned in the T-slots of machine tables (see illustration).
The plates to be positioned must have two holes matching the expanding pin diameter.
The expansion screw has a broached through hexagonal hole allowing the pin to be tightened or loosened from two sides.

Drawing reference:
1) tooling plate
2) clamp straps
3) machine table
4) expanding locating pin

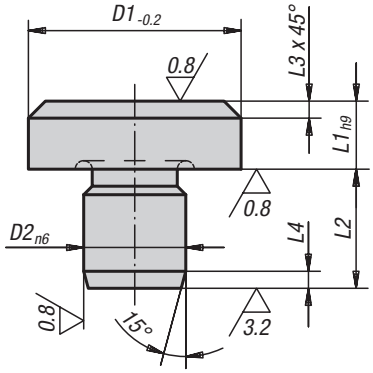
KIPP Locating pins, expanding

Order No.	Form	D	B	B1	B2	Recommended Ø
K0356.1610	A	16	10	20	-	16,01 ±0,01
K0356.1612	A	16	12	22	-	16,01 ±0,01
K0356.1614	B	16	14	16	18	16,01 ±0,01
K0356.2024	B	20	24	28	32	20,01 ±0,01

Notes

Rest pads



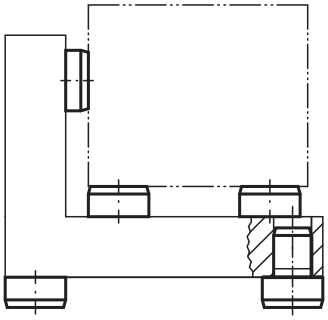


Material:
Tool steel.

Version:
Hardened and ground.
Top face without centerbore.

Sample order:
K0292.041

Note:
If more than one rest pad is used, the support height can be reground. Rest pads can also be used as feet for jigs and fixtures.

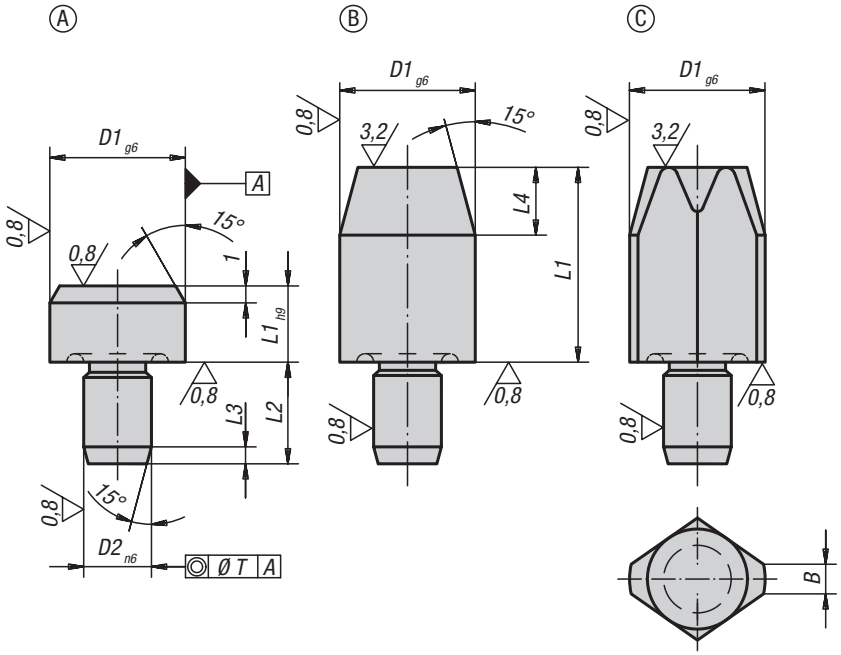


KIPP Rest pads

Order No.	D1	L1	D2	L2	L3	L4
K0292.041	6	2,5	4	6,5	0,7	1,2
K0292.042	6	4,5	4	8,5	0,7	1,2
K0292.04	6	5	4	6	0,7	1,2
K0292.061	10	4,5	6	8,5	0,9	1,5
K0292.06	10	8	6	8,5	0,9	1,5
K0292.08	16	5	8	10	2	2
K0292.081	16	13	8	10	2	2
K0292.10	20	6	10	12	2	2
K0292.101	20	12	10	12	2	2
K0292.12	25	8	12	14	2	2
K0292.122	25	20	12	14	2	2
K0292.123	25	30	12	14	2	2
K0292.16	30	25	16	20	2,5	2,5
K0292.164	30	40	16	20	2,5	2,5
K0292.165	30	50	16	20	2,5	2,5
K0292.166	30	65	16	20	2,5	2,5
K0292.20	30	80	20	20	2,5	2,5
K0292.201	30	100	20	20	2,5	2,5
K0292.202	40	13	20	20	3,2	3,2
K0292.203	40	32	20	20	3,2	3,2

Locating pins and rest pads

DIN 6321 (Issue 1973)





Material:
Tool steel.

Version:
Hardened and ground.

Sample order:
K0293.212

Note:
Rest pads Form A are supports for workpieces and fixtures.
Locating pins Form B are for positioning workpieces and fixture components in reamed holes.
The flattened Form C can be used to bridge tolerances in hole spacing or to secure the part to be positioned in one direction only.
Form A and B can also be used as hardened stops and as fixture feet.
For similar pins see K0352, K0353, K0354 and K0355.

Drawing reference:
Form A: Rest pad
Form B: Cylindrical locating pin
Form C: Flattened locating pin

Other dimensions see Form A.

KIPP Rest pads, Form A

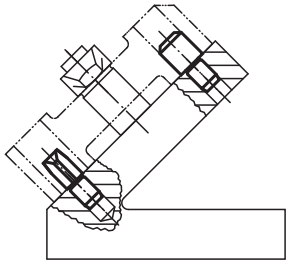
Order No. without centrebore	D1	L1	D2	L2	L3	T
K0293.106	6	5	4	6	1,2	0,02
K0293.110	10	6	6	9	1,6	0,02
K0293.116	16	8	8	12	2	0,04
K0293.125	25	10	12	18	2,5	0,04

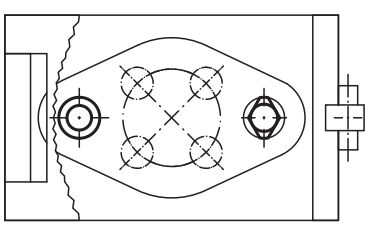
KIPP Locating pin cylindrical, Form B

Order No. short	Order No. long	D1	L1	D2	L2	L3	L4	T
K0293.206	**K0293.306**	6	7/12	4	6	1,2	4	0,02
K0293.208	**K0293.308**	8	10/16	6	9	1,6	6	0,02
K0293.210	**K0293.310**	10	10/18	6	9	1,6	6	0,02
K0293.212	**K0293.312**	12	10/18	6	9	1,6	6	0,02
K0293.216	**K0293.316**	16	13/22	8	12	2	8	0,04
K0293.220	**K0293.320**	20	15/25	12	18	2	9	0,04
K0293.225	**K0293.325**	25	15/25	12	18	2,5	9	0,04

KIPP Locating pin rhombic, Form C

Order No. short	Order No. long	D1	L1	D2	L2	L3	L4	B	T
K0293.406	**K0293.506**	6	7/12	4	6	1,2	4	1	0,02
K0293.408	**K0293.508**	8	10/16	6	9	1,6	6	1,6	0,02
K0293.410	**K0293.510**	10	10/18	6	9	1,6	6	2,5	0,02
K0293.412	**K0293.512**	12	10/18	6	9	1,6	6	2,5	0,02
K0293.416	**K0293.516**	16	13/22	8	12	2	8	3,5	0,04
K0293.420	**K0293.520**	20	15/25	12	18	2	9	5	0,04
K0293.425	**K0293.525**	25	15/25	12	18	2,5	9	5	0,04

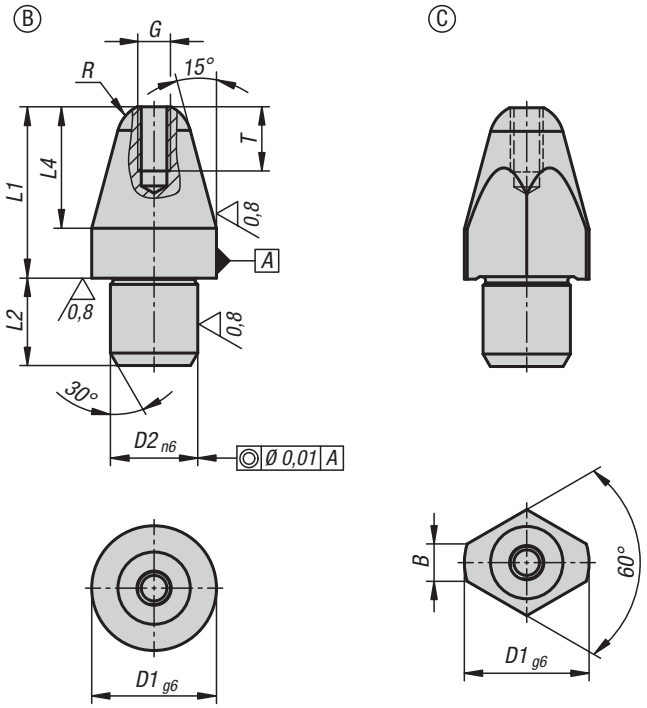




Locating pins

with internal thread





Material:
Steel.

Version:
Hardened and ground (HRC 60 ±2).

Sample order:
K1094.208

Note:
Locating pins are specially designed to ease the locating process. When used in conjunction with the hardened locating bushes K1095, they allow for a rapid, precise and low-wear workpiece exchange.

Drawing reference:
Form B: cylindrical pin
Form C: rhomboid pin

KIPP Locating pins, short

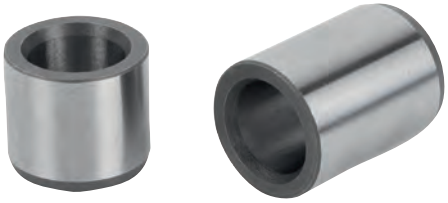
Order No. Form B	Order No. Form C	Version	D1	D2	G	L1	L2	L4	R	B	T
K1094.208	**K1094.408**	short	8	6	M2,5	11,4	6	7,4	2,5	-/2,5	5
K1094.210	**K1094.410**	short	10	7	M2,5	13,7	7	9,7	3	-/3,0	5
K1094.212	**K1094.412**	short	12	8	M3	16	8	12	3,5	-/3,5	6
K1094.216	**K1094.416**	short	16	12	M4	20	12	15	5	-/5	8
K1094.220	**K1094.420**	short	20	14	M5	25,5	14	19,5	6	-/6	10

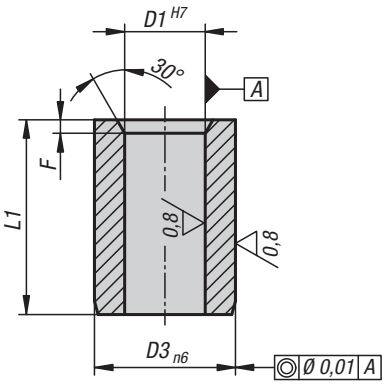
KIPP Locating pins, long

Order No. Form B	Order No. Form C	Version	D1	D2	G	L1	L2	L4	R	B	T
K1094.308	**K1094.508**	long	8	6	M2,5	17,4	6	7,4	2,5	-/2,5	5
K1094.310	**K1094.510**	long	10	7	M2,5	21,7	7	9,7	3	-/3,0	5
K1094.312	**K1094.512**	long	12	8	M3	24	8	12	3,5	-/3,5	6
K1094.316	**K1094.516**	long	16	12	M4	29	12	15	5	-/5	8
K1094.320	**K1094.520**	long	20	14	M5	35,5	14	19,5	6	-/6	10

Locating bushes

for locating pins





Material:
Steel.

Version:
Hardened and ground (HRC 60 ±2).

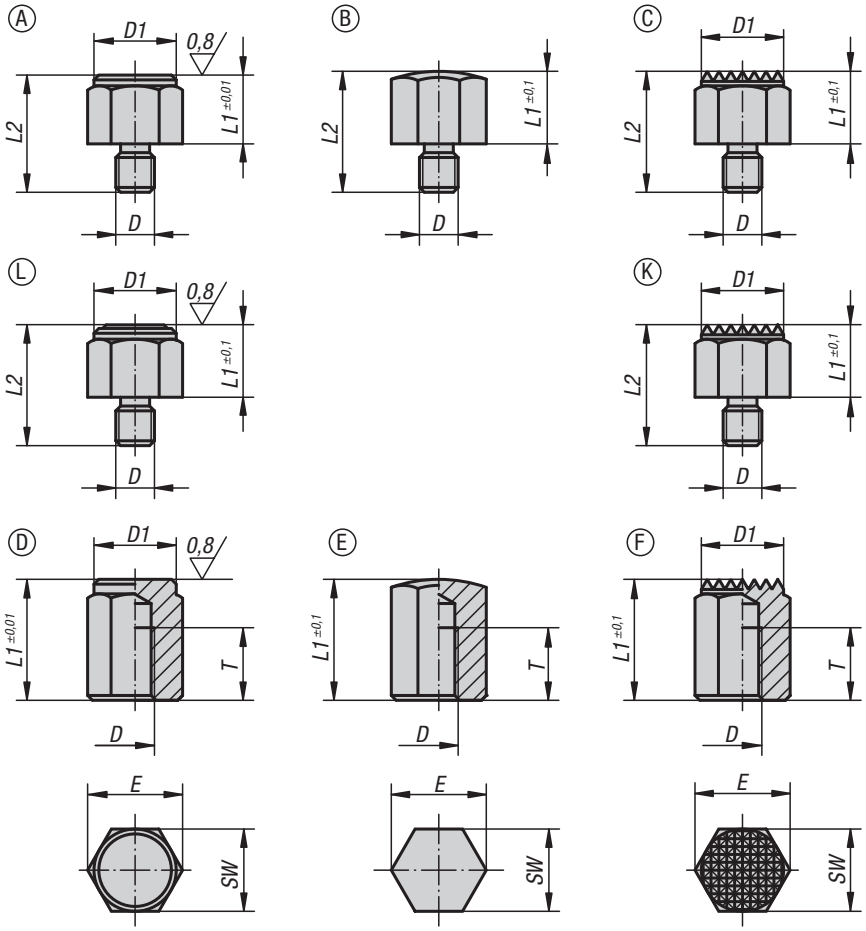
Sample order:
K1095.0812

KIPP Locating bushes for locating pins

Order No.	Version	D1	D3	L1	F
K1095.0812	short	8	12	12	1,2
K1095.1014	short	10	15	14	1,5
K1095.1216	short	12	18	16	1,5
K1095.1620	short	16	26	20	1,5
K1095.2026	short	20	30	26	2,5
K1095.0818	long	8	12	18	1,2
K1095.1022	long	10	15	22	1,5
K1095.1224	long	12	18	24	1,5
K1095.1630	long	16	26	30	1,5
K1095.2036	long	20	30	36	2,5

Positioning feet





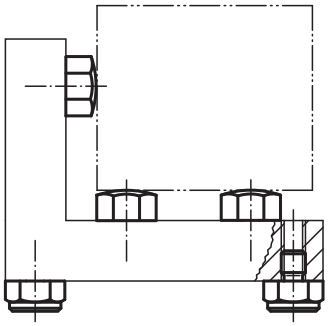
Material:
Steel.

Version:
Case-hardened and black oxidised.

Sample order:
K0298.215

Note:
Positioning feet are used as supports, stops and thrust pads for fixtures and general machine and appliance construction.

Drawing reference:
Form A: External thread and flat face
Form B: External thread and convex face
Form C: External thread and serrated face
Form K: External thread and carbide serrated face
Form L: External thread and POM insert
Form D: External thread and flat face
Form E: External thread and convex face
Form F: External thread and serrated face



KIPP Form A, with external thread and flat face

Order No.	Form	D	L1	D1	L2	E	SW	Tightening torque max. Nm
K0298.108	A	M6	8	13	16	14,4	13	8,5
K0298.1104	A	M6	10	13	20	14,4	13	8,5
K0298.1081	A	M8	8	17	18	19,4	17	18
K0298.1101	A	M8	10	17	20	19,4	17	18
K0298.1103	A	M10	10	19	22	21,1	19	32
K0298.1152	A	M10	15	19	27	21,1	19	32
K0298.110	A	M12	10	22	24	25,2	22	60
K0298.115	A	M12	15	22	29	25,2	22	60
K0298.1151	A	M16	15	30	34	33	30	140
K0298.1201	A	M16	20	30	39	33	30	140

Positioning feet

KIPP Form B, with external thread and convex face

Order No.	Form	D	L1	L2	E	SW	Tightening torque max. Nm
K0298.208	B	M6	8	16	14,4	13	8,5
K0298.2104	B	M6	10	20	14,4	13	8,5
K0298.2081	B	M8	8	18	19,4	17	18
K0298.2101	B	M8	10	20	19,4	17	18
K0298.2103	B	M10	10	22	21,1	19	32
K0298.2152	B	M10	15	27	21,1	19	32
K0298.210	B	M12	10	24	25,2	22	60
K0298.215	B	M12	15	29	25,2	22	60
K0298.2151	B	M16	15	34	33	30	140
K0298.2201	B	M16	20	39	33	30	140

KIPP Form C, with external thread and serrated surface

Order No.	Form	D	L1	D1	L2	E	SW	Tightening torque max. Nm
K0298.308	C	M6	8	13	16	14,4	13	8,5
K0298.3102	C	M6	10	13	20	14,4	13	8,5
K0298.3081	C	M8	8	17	18	19,4	17	18
K0298.3101	C	M8	10	17	20	19,4	17	18
K0298.3103	C	M10	10	19	22	21,1	19	32
K0298.3152	C	M10	15	19	27	21,1	19	32
K0298.310	C	M12	10	22	24	25,2	22	60
K0298.315	C	M12	15	22	29	25,2	22	60
K0298.3151	C	M16	15	30	34	33	30	140
K0298.3201	C	M16	20	30	39	33	30	140

KIPP Form K, with external thread and carbide serrations

Order No.	Form	D	L1	D1	L2	E	SW	Tightening torque max. Nm
K0298.7101	K	M8	10	17	20	19,4	17	18
K0298.710	K	M12	10	22	24	25,2	22	60
K0298.715	K	M12	15	22	29	25,2	22	60
K0298.7151	K	M16	15	30	34	33	30	140
K0298.7201	K	M16	20	30	39	33	30	140

KIPP Form L, with external thread and POM insert

Order No.	Form	D	L1	D1	L2	E	SW	Tightening torque max. Nm
K0298.8101	L	M8	10	17	20	19,4	17	18
K0298.810	L	M12	10	22	24	25,2	22	60
K0298.815	L	M12	15	22	29	25,2	22	60
K0298.8151	L	M16	15	30	34	33	30	140
K0298.8201	L	M16	20	30	39	33	30	140

Positioning feet

KIPP Form D, with internal thread and flat face

Order No.	Form	D	L1	D1	T	E	SW
K0298.410	D	M6	10	13	6	14,4	13
K0298.4151	D	M6	15	13	10	14,4	13
K0298.4101	D	M8	10	17	6	19,4	17
K0298.415	D	M8	15	17	6	19,4	17
K0298.4251	D	M8	25	17	16	19,4	17
K0298.4201	D	M10	20	19	10	21,1	19
K0298.4401	D	M10	40	19	15	21,1	19
K0298.420	D	M12	20	22	10	25,2	22
K0298.425	D	M12	25	22	15	25,2	22
K0298.430	D	M12	30	22	20	25,2	22
K0298.440	D	M12	40	22	25	25,2	22
K0298.450	D	M12	50	22	25	25,2	22
K0298.4301	D	M16	30	30	20	33	30
K0298.4501	D	M16	50	30	25	33	30

KIPP Form E with internal thread and spherical face

Order No.	Form	D	L1	T	E	SW
K0298.510	E	M6	10	6	14,4	13
K0298.5151	E	M6	15	10	14,4	13
K0298.5101	E	M8	10	6	19,4	17
K0298.515	E	M8	15	6	19,4	17
K0298.5251	E	M8	25	16	19,4	17
K0298.5201	E	M10	20	10	21,1	19
K0298.5401	E	M10	40	15	21,1	19
K0298.520	E	M12	20	10	25,2	22
K0298.525	E	M12	25	15	25,2	22
K0298.530	E	M12	30	20	25,2	22
K0298.540	E	M12	40	25	25,2	22
K0298.550	E	M12	50	25	25,2	22
K0298.5301	E	M16	30	20	33	30
K0298.5501	E	M16	50	25	33	30

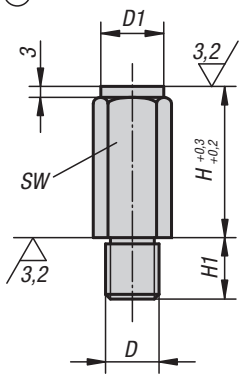
KIPP Form F, with internal thread and serrated face

Order No.	Form	D	L1	D1	T	E	SW
K0298.610	F	M6	10	13	6	14,4	13
K0298.6151	F	M6	15	13	10	14,4	13
K0298.6101	F	M8	10	17	6	19,4	17
K0298.615	F	M8	15	17	6	19,4	17
K0298.6251	F	M8	25	17	16	19,4	17
K0298.6201	F	M10	20	19	10	21,1	19
K0298.6401	F	M10	40	19	15	21,1	19
K0298.620	F	M12	20	22	10	25,2	22
K0298.625	F	M12	25	22	15	25,2	22
K0298.630	F	M12	30	22	20	25,2	22
K0298.640	F	M12	40	22	25	25,2	22
K0298.650	F	M12	50	22	25	25,2	22
K0298.6301	F	M16	30	30	20	33	30
K0298.6501	F	M16	50	30	25	33	30

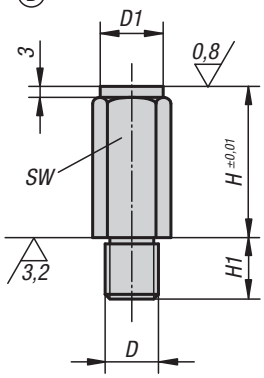
Positioning feet



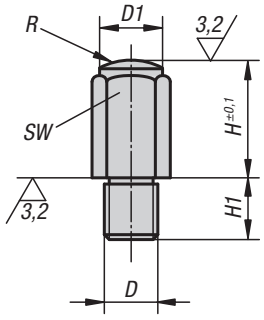
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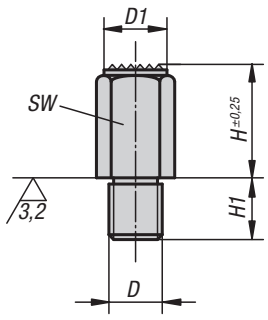
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Material:
Body carbon steel.

Version:
Body tempered and black oxidised.
Contact faces case-hardened.

Sample order:
K0299.106010

Note:
The positioning feet act as supports for rough and machined parts. They can also be used as stops and thrust pads in fixtures and toolmaking.

Drawing reference:
Form A: Flat face hardened
Form B: Flat face hardened and ground
Form C: Spherical face hardened
Form D: Serrated face tempered

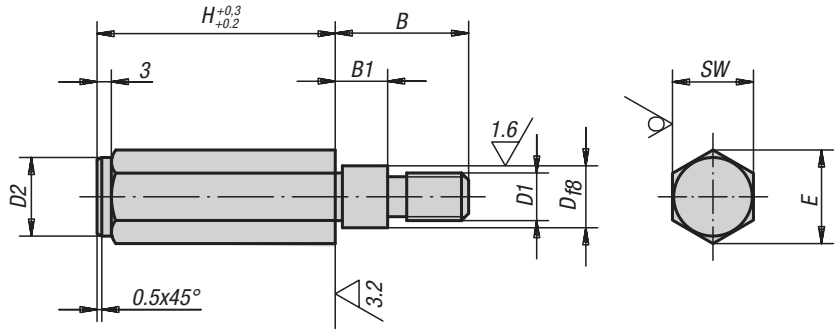
KIPP Positioning feet

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	H	H1	R	SW
K0299.106010	K0299.206010	K0299.306010	K0299.406010	M6	10	10	11	-/-/15/-	10
K0299.106020	K0299.206020	K0299.306020	K0299.406020	M6	10	20	11	-/-/15/-	10
K0299.108010	K0299.208010	K0299.308010	-	M8	13	10	13	-/-/20	13
K0299.108015	K0299.208015	K0299.308015	K0299.408015	M8	13	15	13	-/-/20/-	13
K0299.108030	K0299.208030	K0299.308030	K0299.408030	M8	13	30	13	-/-/20/-	13
K0299.110010	K0299.210010	K0299.310010	-	M10	17	10	16	-/-/30	17
K0299.110020	K0299.210020	K0299.310020	K0299.410020	M10	17	20	16	-/-/30/-	17
K0299.110040	K0299.210040	K0299.310040	K0299.410040	M10	17	40	16	-/-/30/-	17
K0299.112010	K0299.212010	K0299.312010	-	M12	19	10	20	-/-/40	19
K0299.112025	K0299.212025	K0299.312025	K0299.412025	M12	19	25	20	-/-/35/-	19
K0299.112050	K0299.212050	K0299.312050	K0299.412050	M12	19	50	20	-/-/35/-	19
K0299.116015	K0299.216015	K0299.316015	-	M16	27	15	24	-/-/50	27
K0299.116030	K0299.216030	K0299.316030	K0299.416030	M16	27	30	24	-/-/50/-	27
K0299.116060	K0299.216060	K0299.316060	K0299.416060	M16	27	60	24	-/-/50/-	27
K0299.120040	K0299.220040	K0299.320040	K0299.420040	M20	32	40	29	-/-/60/-	32
K0299.120080	K0299.220080	K0299.320080	K0299.420080	M20	32	80	29	-/-/60/-	32

Fixture feet

with external thread

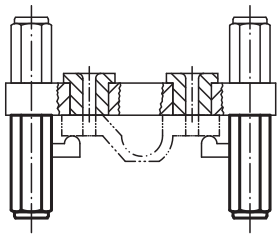




Material:
Carbon steel 1.1181.

Version:
Black oxidised.

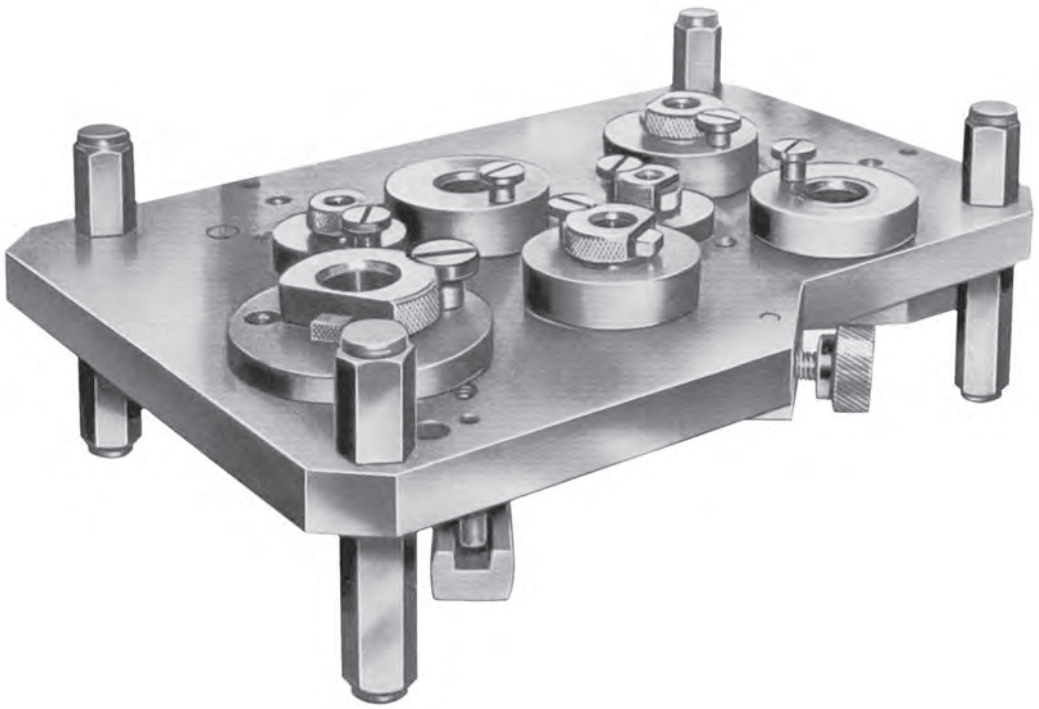
Sample order:
K0300.10X75 (include height H.)



KIPP Fixture feet with external thread

Order No.	H	B	B1	D	D1	D2	E	SW
K0300.10X	50/75/100	28	11	11	M10	16,5	19,5	17
K0300.12X	50/75/100/125	35	18	13	M12	18,5	21,5	19

Application of a drilling jig

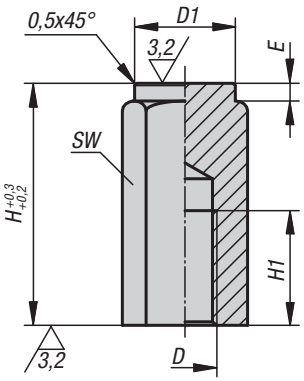


Fixture feet

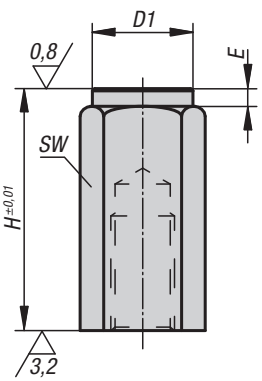
with internal thread



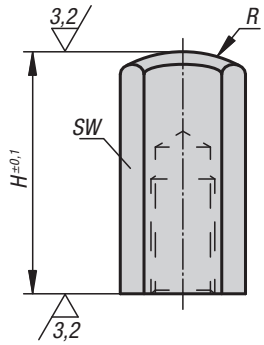
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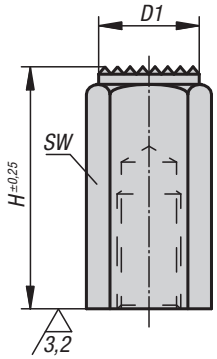
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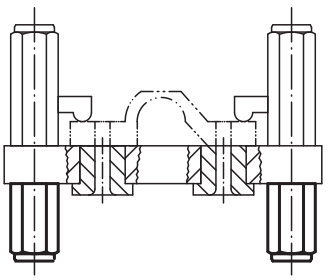
Material:
Body carbon steel.

Version:
Body tempered and black oxidised.
Contact faces case-hardened.

Sample order:
K0301.106X20

Note:
Fixture feet with internal thread are used as supports for fixtures or rough or machined workpieces. They can also be used as stops or thust pads in fixtures and toolmaking.

Drawing reference:
Form A: hardened face
Form B: face hardened and ground
Form C: hardened spherical surface
Form D: tempered serrated surface



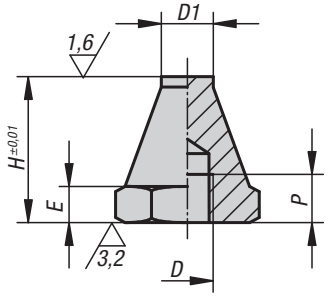
KIPP Fixture feet with internal thread

Order No. Form A	Order No. Form B	Order No. Form C	Order No. Form D	D	D1	E	H	H1	R	SW
K0301.106X20	K0301.206X20	K0301.306X20	K0301.406X20	M6	9,5/9,5/-/9,5	2/2/-/-	20	12	-/-/15/-	10
K0301.106X40	K0301.206X40	K0301.306X40	K0301.406X40	M6	9,5/9,5/-/9,5	2/2/-/-	40	12	-/-/15/-	10
K0301.110X32	K0301.210X32	K0301.310X32	K0301.410X32	M10	16,5/16,5/-/16,5	3/3/-/-	32	18	-/-/30/-	17
K0301.110X63	K0301.210X63	K0301.310X63	K0301.410X63	M10	16,5/16,5/-/16,5	3/3/-/-	63	18	-/-/30/-	17
K0301.112X32	K0301.212X32	K0301.312X32	K0301.412X32	M12	18,5/18,5/-/18,5	3/3/-/-	32	18	-/-/35/-	19
K0301.112X63	K0301.212X63	K0301.312X63	K0301.412X63	M12	18,5/18,5/-/18,5	3/3/-/-	63	18	-/-/35/-	19
K0301.116X50	K0301.216X50	K0301.316X50	K0301.416X50	M16	23/23/-/23	4/4/-/-	50	24	-/-/40/-	24
K0301.116X100	K0301.216X100	K0301.316X100	K0301.416X100	M16	23/23/-/23	4/4/-/-	100	24	-/-/40/-	24

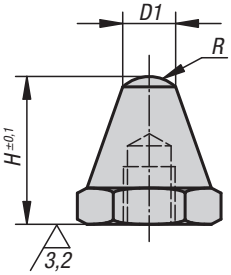
Rest pads



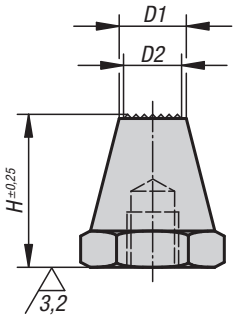
Ⓐ

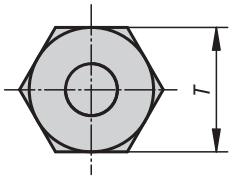


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Material:
Body carbon steel.

Version:
Body tempered and black oxidised.

Sample order:
K0294.106012

Note:
Rest pads are for supporting machined and non-machined parts. They can also be used as stops and thrust pads in fixtures and toolmaking.
Studs or grub screws can be screwed and glued into the tapped hole D to make a rest pad with external thread.

Drawing reference:
Form A: flat face
Form B: ball end
Form C: diamond grip

KIPP Rest pads

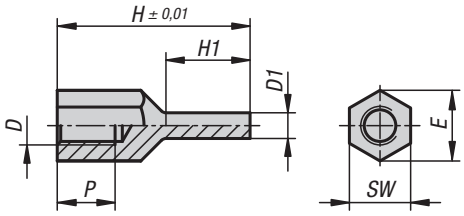
Order No. Form A	Order No. Form B	Order No. Form C	D	D1	D2	E	H	P	R	T
K0294.106012	K0294.206012	K0294.306012	M6	6	-/-/5	3	12,5	4	-/5/-	11
K0294.106025	K0294.206025	K0294.306025	M6	6	-/-/5	3	25	7	-/5/-	11
K0294.108015	K0294.208015	K0294.308015	M8	8	-/-/6	4	15	6	-/8,5/-	13
K0294.108030	K0294.208030	K0294.308030	M8	8	-/-/6	4	30	9	-/8,5/-	13
K0294.110020	K0294.210020	K0294.310020	M10	10	-/-/8	5	20	9	-/9/-	17
K0294.110040	K0294.210040	K0294.310040	M10	10	-/-/8	5	40	13	-/9/-	17
K0294.112025	K0294.212025	K0294.312025	M12	12	-/-/9,5	6	25	11	-/12,75/-	19
K0294.112050	K0294.212050	K0294.312050	M12	12	-/-/9,5	6	50	16	-/12,75/-	19
K0294.116030	K0294.216030	K0294.316030	M16	16	-/-/13	8	30	12	-/17/-	24
K0294.116060	K0294.216060	K0294.316060	M16	16	-/-/13	8	60	20	-/17/-	24

Notes

Rest pads

pin form, internal thread





Material:
Carbon steel.

Version:
Tempered, black oxidised.
Seating face inductively hardened and ground.

Sample order:
K1105.2060420

Note:
The rest pads can be used both as a stable and precise support and as a stop.
The pin form of the rest pad also allows it to be used with components with constricted support points.

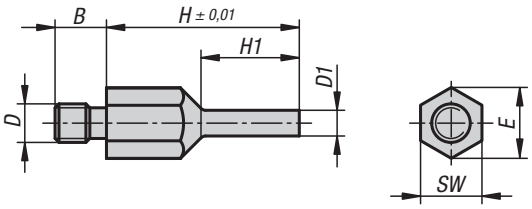
KIPP Rest pads, pin form with internal thread

Order No.	D	D1	E	H	H1	P	SW
K1105.2060420	M6	4	11	20	8,5	6	10
K1105.2060430	M6	4	11	30	13,5	9	10
K1105.2080430	M8	4	14,4	30	13	10	13
K1105.2080440	M8	4	14,4	40	18	14	13
K1105.2080630	M8	6	14,4	30	13	10	13
K1105.2080640	M8	6	14,4	40	18	14	13
K1105.2100630	M10	6	19	30	12	10	17
K1105.2100650	M10	6	19	50	25	15	17
K1105.2100830	M10	8	19	30	12	10	17
K1105.2100850	M10	8	19	50	25	15	17
K1105.2120640	M12	6	21,2	40	18	12	19
K1105.2120660	M12	6	21,2	60	28	18	19
K1105.2120840	M12	8	21,2	40	18	12	19
K1105.2120860	M12	8	21,2	60	28	18	19

Rest pads

pin form, external thread





Material:
Carbon steel.

Version:
Tempered, black oxidised.
Seating face inductively hardened and ground.

Sample order:
K1105.1060420

Note:
The rest pads can be used both as a stable and precise support and as a stop.
The pin form of the rest pad also allows it to be used with components with constricted support points.

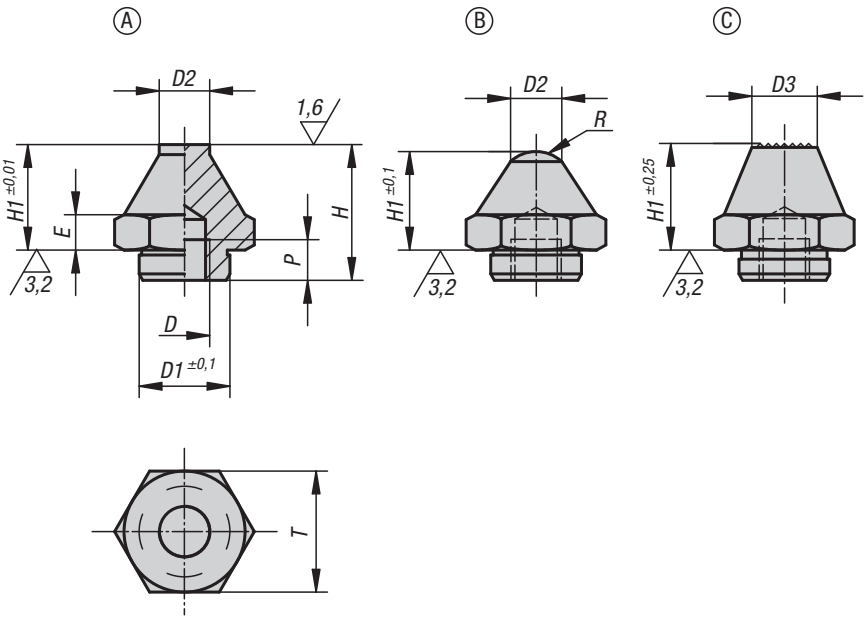
KIPP Rest pads, pin form with external thread

Order No.	B	D	D1	E	H	H1	SW
K1105.1060420	8	M6	4	11	20	10	10
K1105.1060430	8	M6	4	11	30	15	10
K1105.1080430	10	M8	4	14,4	30	15	13
K1105.1080440	10	M8	4	14,4	40	20	13
K1105.1080630	10	M8	6	14,4	30	15	13
K1105.1080640	10	M8	6	14,4	40	20	13
K1105.1100630	14	M10	6	19	30	15	17
K1105.1100650	14	M10	6	19	50	25	17
K1105.1100830	14	M10	8	19	30	15	17
K1105.1100850	14	M10	8	19	50	25	17
K1105.1120640	14	M12	6	21,2	40	20	19
K1105.1120660	14	M12	6	21,2	60	30	19
K1105.1120840	14	M12	8	21,2	40	20	19
K1105.1120860	14	M12	8	21,2	60	30	19

Rest pads

with positioning pin





Material:
Body carbon steel.

Version:
Body tempered and black oxidised.
Contact faces case-hardened.

Sample order:
K0295.106012

Note:
Rest pads are for supporting machined and unmachined parts. They can also be used as stops and thrust pads in fixtures and toolmaking. Studs or grub screws can be screwed and glued into the tapped hole D to make a support with external thread.

Drawing reference:
Form A: flat face
Form B: ball end
Form C: diamond grip

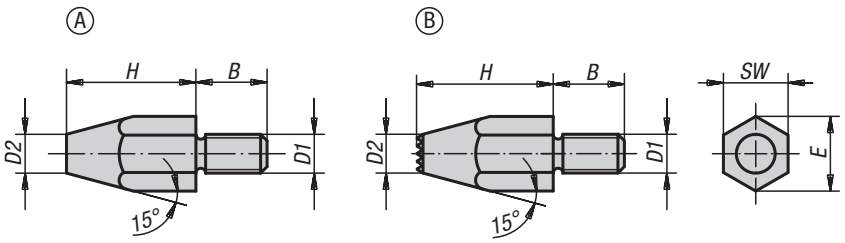
KIPP Rest pads with positioning pin

Order No.	Form	D	D1	D2	D3	E	H	H1	P	R	T
K0295.106012	A	M6	11,9	7	-	4	16,5	12,5	6	-	17
K0295.106025	A	M6	11,9	7	-	4	29	25	6	-	17
K0295.110020	A	M10	17,8	10	-	7	25	20	10	-	24
K0295.110040	A	M10	17,8	10	-	7	46	40	10	-	24
K0295.116030	A	M16	25,8	20	-	13	40	30	16	-	41
K0295.116060	A	M16	25,8	20	-	13	70	60	16	-	41
K0295.206012	B	M6	11,9	7	-	4	16,5	12,5	6	6	17
K0295.206025	B	M6	11,9	7	-	4	29	25	6	6	17
K0295.210020	B	M10	17,8	10	-	7	25	20	10	7,5	24
K0295.210040	B	M10	17,8	10	-	7	46	40	10	7,5	24
K0295.216030	B	M16	25,8	20	-	13	40	30	16	26	41
K0295.216060	B	M16	25,8	20	-	13	70	60	16	26	41
K0295.310020	C	M10	17,8	-	15	7	25	20	10	-	24
K0295.310040	C	M10	17,8	-	10	7	46	40	10	-	24
K0295.316030	C	M16	25,8	-	20	13	40	30	16	-	41
K0295.316060	C	M16	25,8	-	20	13	70	60	16	-	41

Feet

with threaded pin, DIN 6320 (edition 1971)





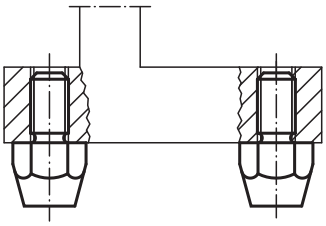
Material:
Carbon steel 1.1172.

Version:
Black oxidised.

Sample order:
K0296.10

Note:
The rest pads K0292 and K0293 can also be used as feet.

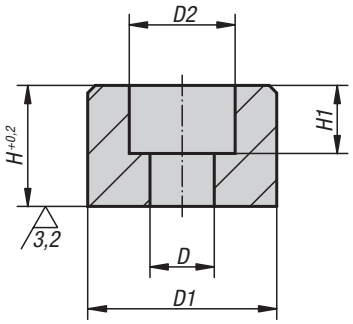
Drawing reference:
Form A: Smooth face
Form B: Carbide tips



KIPP Feet with threaded pin, DIN 6320 (edition 1971)

Order No.	Form	D1	D2	H	B	E	SW
K0296.06	A	M6	8	10	11	11,5	10
K0296.061	A	M6	6	20	11	11,5	10
K0296.08	A	M8	10	15	13	15	13
K0296.081	A	M8	9	30	13	15	13
K0296.10	A	M10	13	20	16	19,6	17
K0296.101	A	M10	13	40	16	19,6	17
K0296.12	A	M12	15	25	20	21,9	19
K0296.121	A	M12	15	50	20	21,9	19
K0296.083	B	M8	11,5	15	13	15	13
K0296.123	B	M12	15	25	20	21,9	19

Locating feet





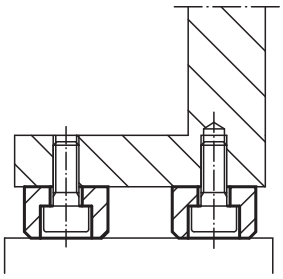
Material:
Free-cutting steel 1.0718.

Version:
Hardened, black oxidised.

Sample order:
K0303.08

KIPP Locating feet

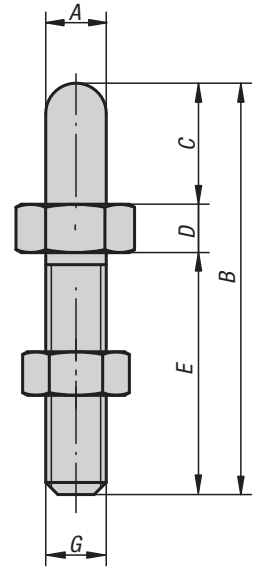
Order No.	D	D1	D2	H	H1
K0303.05	5,5	16	10	10	5,7
K0303.06	6,6	20	11	12	7
K0303.08	9	25	15	16	9
K0303.10	11	32	18	20	11
K0303.12	13,5	36	20	25	13

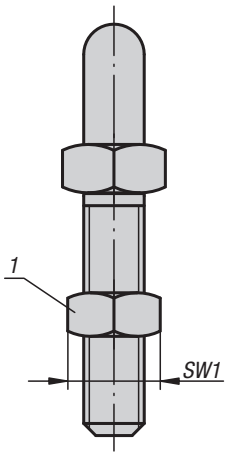


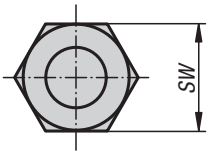
Notes

Support bolts









Material:
Carbon steel, tempered.

Version:
Black oxidised.

Sample order:
K0297.16016

Note:
The rounded nose also allows support bolts to be used as positioning elements for workpieces with matching holes.

The versions K0297.20020 and K0297-20040 have an octagonal collar.

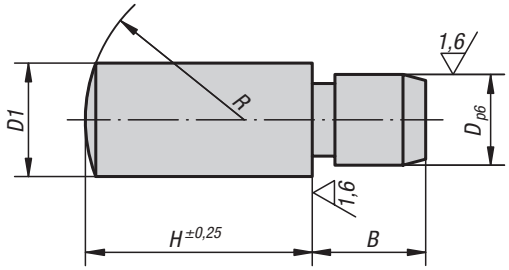
Drawing reference:
1) locknut

KIPP Support bolts

Order No.	A	B	C	D	E	G	SW	SW1
K0297.06006	6	37	6	6	25	M6	13	10
K0297.06012	6	43	12	6	25	M6	13	10
K0297.08008	8	45	8	7	30	M8	13	13
K0297.08016	8	53	16	7	30	M8	13	13
K0297.10010	10	58	10	8	40	M10	17	17
K0297.10020	10	68	20	8	40	M10	17	17
K0297.12012	12	72	12	10	50	M12	19	19
K0297.12024	12	84	24	10	50	M12	19	19
K0297.16016	16	89	16	13	60	M16	24	24
K0297.16032	16	105	32	13	60	M16	24	24
K0297.20020	20	115	20	15	80	M20	36	30
K0297.20040	20	135	40	15	80	M20	36	30

K0305

Rest pads

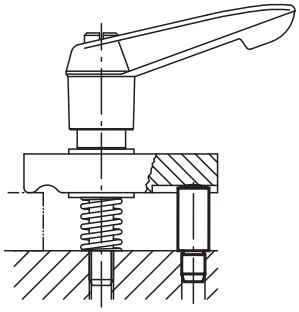




Material:
Steel 1.0301.

Version:
Case-hardened, black oxidised and ground.

Sample order:
K0305.05X8 (include length H)



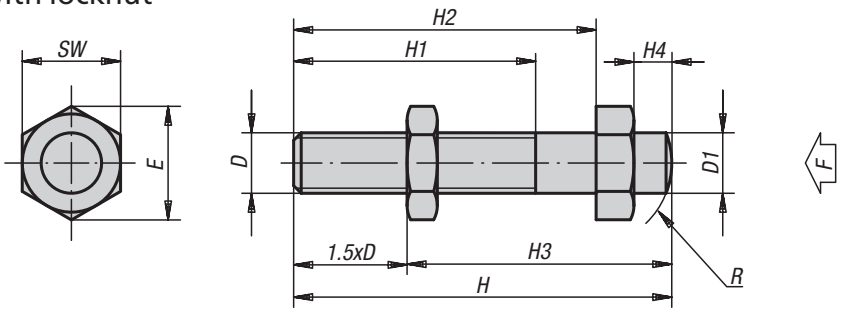
KIPP Rest pads

Order No.	H	B	D	D1	R
K0305.05X	8/10/12/16	5	4	5	7
K0305.06X	10/12/16/20	6	5	6	8
K0305.08X	12/16/20/25	8	6	8	11
K0305.10X	16/20/25/32	10	8	10	14
K0305.12X	20/25/32/40	12	10	12	16
K0305.14X	20/25/32/40	14	12	14	20
K0305.16X	25/32/40/50	16	14	16	25
K0305.20X	25/32/40/50	20	16	20	28

K0306

Rest pads adjustable

with locknut

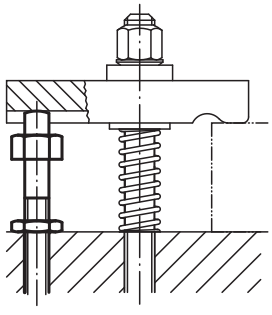




Material:
Carbon steel 1.1181.

Version:
Surface hardened, black oxidised.

Sample order:
K0306.05

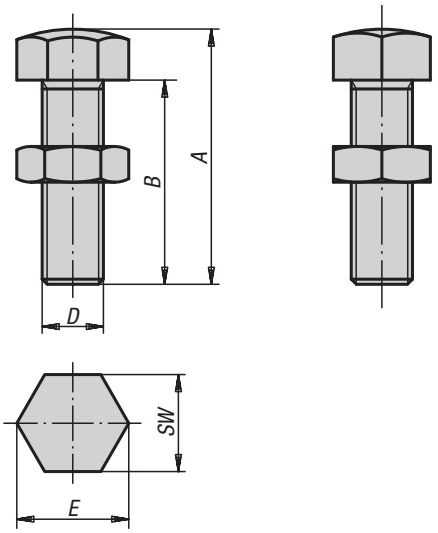


KIPP Rest pads adjustable with locknut

Order No.	D	D1	H	H1	H2	H3 min.	H3 max.	H4	E	SW	R	F ca.N
K0306.05	M5	5	50	32	40	20,5	42,5	5	11,5	10	7	1000
K0306.06	M6	6	50	32	40	21	41	5	11,5	10	8	1430
K0306.08	M8	8	50	32	40	22	38	5	15	13	11	2620
K0306.10	M10	10	52	32	40	25	37	5	19,6	17	14	4180
K0306.101	M10	10	70	32	56	42	55	6	19,6	17	14	4180
K0306.12	M12	12	70	40	56	36	52	6	21,9	19	16	6100
K0306.121	M12	12	95	50	80	51	77	6	21,9	19	16	6100
K0306.14	M14	14	100	63	80	44	79	8	25,4	22	20	8320
K0306.16	M16	16	100	63	80	45	76	8	27,7	24	25	11520
K0306.161	M16	16	120	63	100	65	96	8	27,7	24	25	11520
K0306.20	M20	20	110	70	88	50	90	10	34,6	30	28	18000

Rest pads





Material:
Carbon steel or brass

Version:
Tempered and black oxidised.

Sample order:
K0307.16055

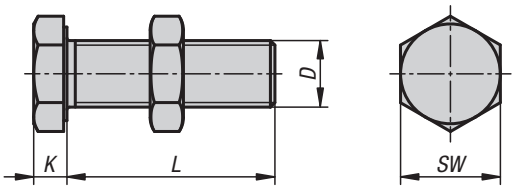
KIPP Rest pads

Order No.	Material	A	B	D	E	SW
K0307.06030	carbon steel	30	25	M6	11,5	10
K0307.06040	carbon steel	40	35	M6	11,5	10
K0307.06050	carbon steel	50	45	M6	11,5	10
K0307.08036	carbon steel	36	30	M8	15	13
K0307.08046	carbon steel	46	40	M8	15	13
K0307.08056	carbon steel	56	50	M8	15	13
K0307.10042	carbon steel	42	35	M10	19,6	17
K0307.10048	carbon steel	48	40	M10	19,6	17
K0307.10058	carbon steel	58	50	M10	19,6	17
K0307.10068	carbon steel	68	60	M10	19,6	17
K0307.12048	carbon steel	50	42	M12	21,9	19
K0307.12070	carbon steel	70	60	M12	21,9	19
K0307.12080	carbon steel	80	70	M12	21,9	19
K0307.16055	carbon steel	55	45	M16	27,7	24
K0307.16075	carbon steel	75	65	M16	27,7	24
K0307.16085	carbon steel	85	75	M16	27,7	24
K0307.12148	brass	50	42	M12	21,9	19
K0307.16155	brass	55	45	M16	27,7	24

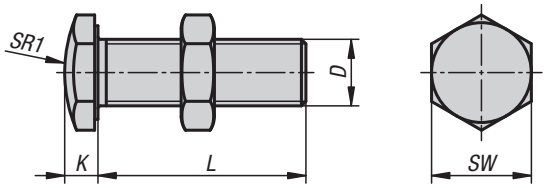
Stop screws



Ⓐ



Ⓑ



Material:
Steel grade 10.9
(M3 8.8)

Version:
Stop screw black oxidised.
Nut galvanized.

Sample order:
K1200.10820
(include length L e.g. 20 for L = 20 mm)

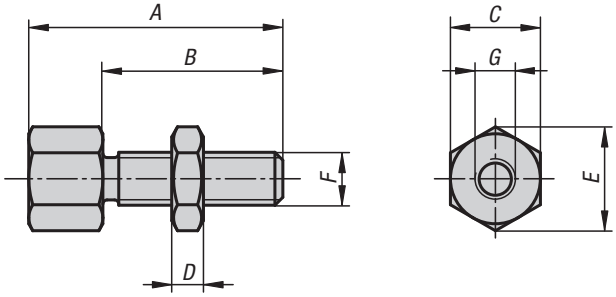
Note:
Size M3 stop screw only available in grade 8.8.

KIPP Stop screws

Order No.	Form	D	L	K	SW	SR1
K1200.103**	A	M3	16/25	2	5,5	-
K1200.104**	A	M4	16/25/35	2,5	7	-
K1200.105**	A	M5	16/25/35	3,5	8	-
K1200.106**	A	M6	25/35/40	3,8	10	-
K1200.108**	A	M8	12/16/20/25/30/35/40/45/50/55/65/70/85	5	13	-
K1200.110**	A	M10	35/40/50/60	6	17	-
K1200.112**	A	M12	40/60/70	7	19	-
K1200.116**	A	M16	50/60/70	9,5	24	-
K1200.203**	B	M3	16/25	2	5,5	10
K1200.204**	B	M4	16/25/35	2,5	7	10
K1200.205**	B	M5	16/25/35	3,5	8	12
K1200.206**	B	M6	25/35/40	3,8	10	15
K1200.208**	B	M8	12/16/20/25/30/35/40/45/50/55/65/70/85	5	13	20
K1200.210**	B	M10	35/40/50/60	6	17	30
K1200.212**	B	M12	40/60/70	7	19	30
K1200.216**	B	M16	50/60/70	9,5	24	35

Jack screws





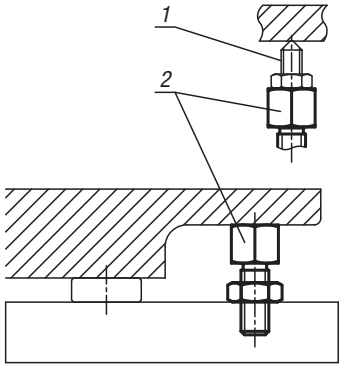
Material:
Carbon steel.

Version:
Black oxidised.

Sample order:
K0308.0803006

Note:
Various rests can be mounted on this jack screw.

Drawing reference:
1) screw rest
2) jack screw



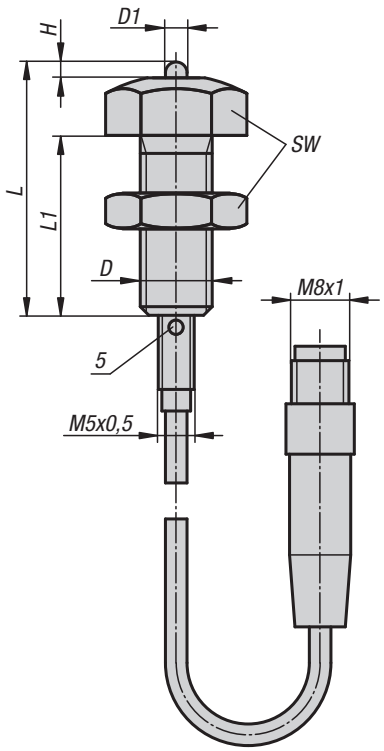
KIPP Jack screws

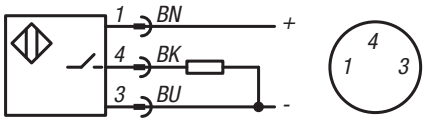
Order No.	A	B	C	D	E	F	G
K0308.0803006	30	20	13	5	14,4	M8	M6x6
K0308.0804006	40	30	13	5	14,4	M8	M6x6
K0308.1003808	38	24	17	6	18,9	M10	M8x8
K0308.1004808	48	34	17	6	18,9	M10	M8x8
K0308.1205110	51	33	22	7	24,5	M12	M10x10
K0308.1206610	66	48	22	7	24,5	M12	M10x10
K0308.1606212	62	40	27	10	30,1	M16	M12x12
K0308.1607712	77	55	27	10	30,1	M16	M12x12

Stop

adjustable, with end position feedback







Material:
Screw and plunger stainless steel 1.4301
Guide bush stainless steel 1.4112
Sensor housing stainless steel.

Version:
Screw and plunger, bright.
Guide bushing, bright.
Sensor housing, bright.
Inductive sensor:
Relay (NO)
Operating voltage 10 - 30 V DC
Operating current 100 mA
Switching distance 0.8 mm
Protection class: IP 67
Connection type: 0.3 m PUR cable with connector plug
Temperature range: -25°C - +70°C
Approval: CE, c-UL-us

Sample order:
K0581.080352

Note:
The ensured sensing distance is achieved if the plunger is actuated flush up to the stop surface of the guide bush. The sensor is supplied unassembled.

Installation recommendation: glue in with Loctite 638.

Caution: screw sensor in until it comes to a stop.

Safety:
End position feedback stops are not suitable for personal protection.

Drawing reference:
5) LED-indicator

BN = brown
BK = black
BU = blue

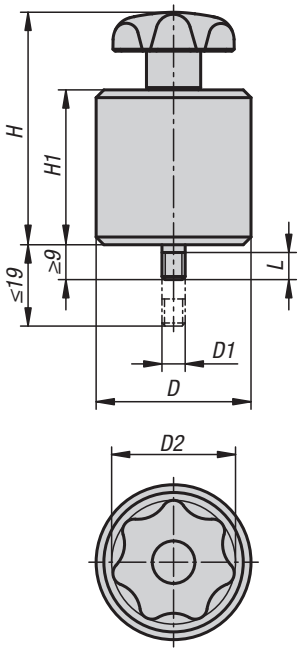
KIPP Stop, adjustable, with end position feedback

Order No.	Size	D	D1	H	L	L1	SW
K0581.080352	1	M8	3	2	35,2	25	13
K0581.100352	2	M10	3	2	35,2	25	17
K0581.120352	3	M12	3	2	35,2	25	19

Clamp stops adjustable

for slot profiles





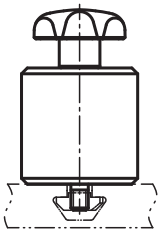
Material:
Body aluminium.
Other metal components steel.
Plastic components PA6.

Version:
Body natural tone anodized.
Other metal components blue passivated.

Sample order:
K1214.064040

Note:
Sliding stop for profile systems type B, type I, and DIN 650 T-slots. Locked by turning the star grip. Sprung threaded pin ensures smooth sliding without tilting the slot key when loosened.

Accessories:
K1023.0806
K1024.0606
K1024.0806
K1025.0806
K1026.1006
K1027.1006
K0377.06
K0377.061
K0377.806
K0377.2061
K0377.206



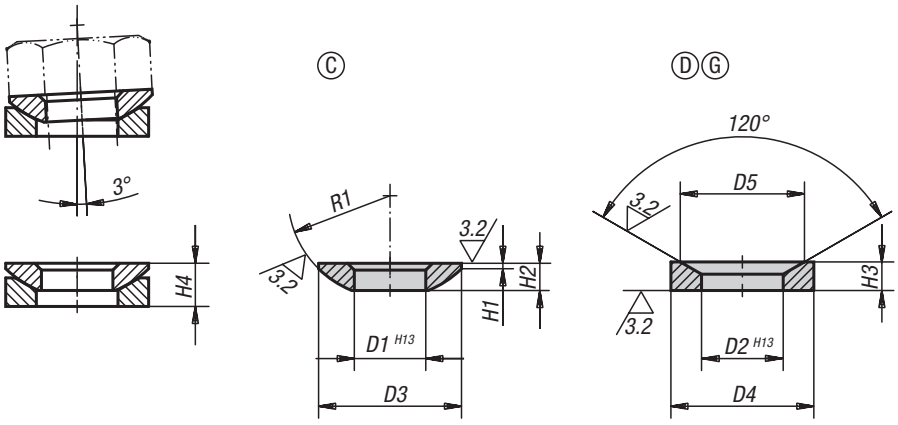
KIPP Clamp stops adjustable for slot profiles

Order No.	D	D1	D2	H	H1	L
K1214.064040	40	M6	32	60	40	7

Spherical washers

DIN 6319, edition 10/01





Material:
Mild steel or stainless steel.
Form G carbon steel tempered to HV 390 ±40.

Version:
Steel version case hardened.
Stainless steel version bright, not hardened.

Sample order:
K0729.216

Note:
Conical seat Form G should be used over slots.

Drawing reference:
Form C: spherical washer
Form D: conical seat D4 = D3
Form G: conical seat D4 > D3

KIPP Spherical washers Form C, DIN 6319, edition 10/01

Order No. mild steel	Order No. stainless steel	Form	D1	D3	H1	H2	R1	for screw Ø	Load rating max. kN (static load only)
K0729.105	-	C	5,25	10,5	0,4	2	7,5	5	-
K0729.106	**K0729.0106**	C	6,4	12	0,7	2,3	9	6	9/6
K0729.108	**K0729.0108**	C	8,4	17	0,6	3,2	12	8	17/12
K0729.110	**K0729.0110**	C	10,5	21	0,8	4	15	10	26/16
K0729.112	**K0729.0112**	C	13	24	1,1	4,6	17	12	38/24
K0729.114	-	C	15	28	1,2	5	22	14	53
K0729.116	**K0729.0116**	C	17	30	1,3	5,3	22	16	73/45
K0729.120	**K0729.0120**	C	21	36	2	6,3	27	20	117/71
K0729.124	**K0729.0124**	C	25	44	2,4	8,2	32	24	168/105
K0729.130	**K0729.0130**	C	31	56	3,6	11,2	41	30	269/191
K0729.136	**K0729.0136**	C	37	68	4,6	14	50	36	394/-
K0729.142	**K0729.0142**	C	43	78	6,5	17	58	42	542/-
K0729.148	**K0729.0148**	C	50	92	8	21	67	48	714/-
K0729.156	-	C	58	103	9,5	23	79	56	960
K0729.164	-	C	66	120	12	27	93	64	1269

Spherical washers

DIN 6319, edition 10/01

KIPP Conical seats Form D, DIN 6319, edition 10/01

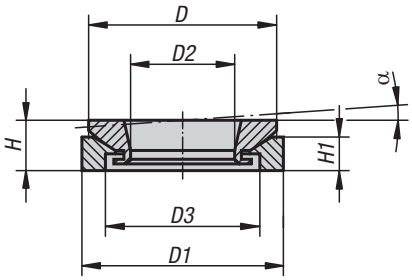
Order No. mild steel	Order No. stainless steel	Form	D2	D4	D5	H3	H4 with conical seat	for screw Ø	Load rating max. kN (static load only)
K0729.205	-	D	6	10,5	9,25	2,1	3,1	5	-
K0729.206	**K0729.0206**	D	7,1	12	11	2,8	4	6	9/6
K0729.208	**K0729.0208**	D	9,6	17	14,5	3,5	5,6	8	17/12
K0729.210	**K0729.0210**	D	12	21	18,5	4,2	6,3	10	26/16
K0729.212	**K0729.0212**	D	14,2	24	20	5	8	12	38/24
K0729.214	-	D	16,5	28	24,8	5,6	8,2	14	53
K0729.216	**K0729.0216**	D	19	30	26	6,2	9,3	16	73/45
K0729.220	**K0729.0220**	D	23,2	36	31	7,5	11,6	20	117/71
K0729.224	**K0729.0224**	D	28	44	37	9,5	15	24	168/105
K0729.230	**K0729.0230**	D	35	56	49	12	18,9	30	269/191
K0729.236	**K0729.0236**	D	42	68	60	15	23,3	36	394/-
K0729.242	**K0729.0242**	D	49	78	70	18	28,3	42	542/-
K0729.248	**K0729.0248**	D	56	92	82	22	35,2	48	714/-
K0729.256	-	D	65	103	92	25	39,7	56	960
K0729.264	-	D	75	120	110	30	46,5	64	1269

KIPP Conical seats Form G, DIN 6319 Edition 10/01

Order No. high carbon steel	Order No. stainless steel	Form	D2	D4	D5	H3	H4 with conical seat	for screw Ø	Load rating max. kN (static load only)
K0729.305	-	G	6	15	9,25	2,5	3,5	5	-
K0729.306	**K0729.0306**	G	7,1	17	11	4	5,2	6	9/6
K0729.308	**K0729.0308**	G	9,6	24	14,5	5	6,8	8	17/12
K0729.310	**K0729.0310**	G	12	30	18,5	5	7,1	10	26/16
K0729.312	**K0729.0312**	G	14,2	36	20	6	9	12	38/24
K0729.314	-	G	16,5	40	24,8	6	8,6	14	53
K0729.316	**K0729.0316**	G	19	44	26	7	10,1	16	73/45
K0729.320	**K0729.0320**	G	23,2	50	31	8	12	20	117/71
K0729.324	**K0729.0324**	G	28	60	37	10	15,5	24	168/105
K0729.330	**K0729.0330**	G	35	68	49	12	18,7	30	269/191
K0729.336	-	G	42	80	60	12	20,3	36	394

Spherical levelling washers



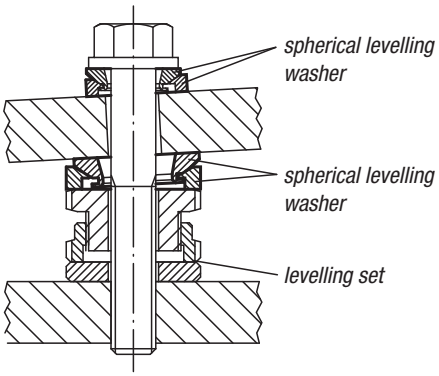


Material:
Steel 1.7225.
Stainless steel 1.4305.

Version:
Steel blue passivated.
Stainless steel, bright.

Sample order:
K0691.401

Note:
Spherical levelling washers are for exact positioning when mounting up to 4° sloping surfaces. A second spherical levelling washer is recommended as support to correct the bolt angle if the angle of D3 is > 1°. The two washers cannot be detached from each other.



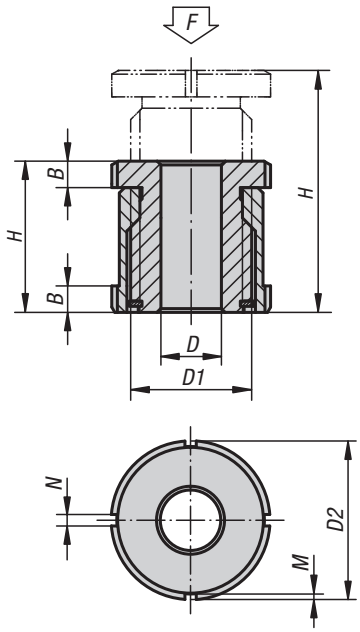
KIPP Spherical levelling washers

Order No. Steel	Order No. Stainless steel	H	H1	D	D1	D2	D3	α
K0691.151	**K0691.152**	8	5,5	23	25	8,5	15	4°
K0691.201	**K0691.202**	10	6,2	30	32	13	20	4°
K0691.301	**K0691.302**	12,5	9	40	45	20	30	4°
K0691.401	**K0691.402**	16	13	52	58	29	38	4°
K0691.501	**K0691.502**	20	14	65	70	36	48	4°

Notes

Levelling sets

high version





Material:
Steel 1.7225.
Stainless steel 1.4305.

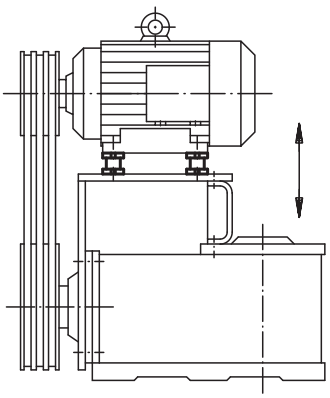
Version:
Standard version zinc galvanised and blue passivated.
Stainless steel version bright.

Sample order:
K0692.01505

Note:
Levelling sets are used for mounting, levelling and aligning motors, aggregates, drive units and assembly lines. They have a large adjustment range of 15 mm to 40 mm. Other sizes available on request.

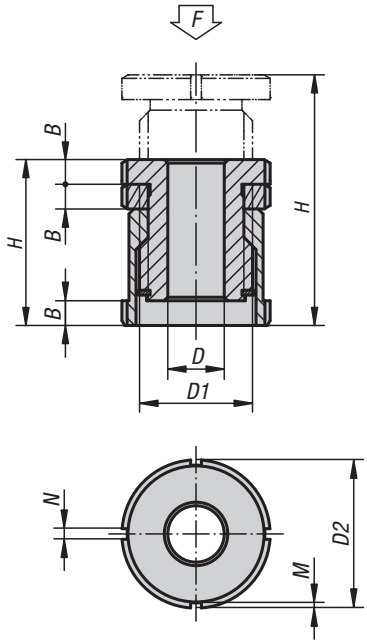
KIPP Levelling sets, high version

Order No.	Main material	D	for screw	D1	D2	H min.	H max.	B	N	M	F kN
K0692.01504	carbon steel	4,5	M4	M15x1	25	28	43	5	4	2	40
K0692.01505	carbon steel	5,5	M5	M15x1	25	28	43	5	4	2	40
K0692.01506	carbon steel	6,6	M6	M15x1	25	28	43	5	4	2	40
K0692.02006	carbon steel	6,6	M6	M20x1	32	35	55	6	4	2	65
K0692.02008	carbon steel	9	M8	M20x1	32	35	55	6	4	2	65
K0692.02010	carbon steel	11	M10	M20x1	32	35	55	6	4	2	65
K0692.02510	carbon steel	11	M10	M30x1,5	45	42	67	7	5	2	120
K0692.02512	carbon steel	13,5	M12	M30x1,5	45	42	67	7	5	2	120
K0692.02516	carbon steel	17,5	M16	M30x1,5	45	42	67	7	5	2	120
K0692.03216	carbon steel	17,5	M16	M40x1,5	58	54	86	9	6	2,5	210
K0692.03220	carbon steel	22	M20	M40x1,5	58	54	86	9	6	2,5	210
K0692.03224	carbon steel	26	M24	M40x1,5	58	54	86	9	6	2,5	210
K0692.04020	carbon steel	22	M20	M50x1,5	70	66	106	11	6	2,5	330
K0692.04024	carbon steel	26	M24	M50x1,5	70	66	106	11	6	2,5	330
K0692.04030	carbon steel	33	M30	M50x1,5	70	66	106	11	6	2,5	330
K0692.015041	stainless steel	4,5	M4	M15x1	25	28	43	5	4	2	27,1
K0692.015051	stainless steel	5,5	M5	M15x1	25	28	43	5	4	2	27,1
K0692.015061	stainless steel	6,6	M6	M15x1	25	28	43	5	4	2	27,1
K0692.020061	stainless steel	6,6	M6	M20x1	32	35	55	6	4	2	43,4
K0692.020081	stainless steel	9	M8	M20x1	32	35	55	6	4	2	43,4
K0692.020101	stainless steel	11	M10	M20x1	32	35	55	6	4	2	43,4
K0692.025101	stainless steel	11	M10	M30x1,5	45	42	67	7	5	2	84
K0692.025121	stainless steel	13,5	M12	M30x1,5	45	42	67	7	5	2	84
K0692.025161	stainless steel	17,5	M16	M30x1,5	45	42	67	7	5	2	84
K0692.032161	stainless steel	17,5	M16	M40x1,5	58	54	86	9	6	2,5	148
K0692.032201	stainless steel	22	M20	M40x1,5	58	54	86	9	6	2,5	148
K0692.032241	stainless steel	26	M24	M40x1,5	58	54	86	9	6	2,5	148
K0692.040201	stainless steel	22	M20	M50x1,5	70	66	106	11	6	2,5	225
K0692.040241	stainless steel	26	M24	M50x1,5	70	66	106	11	6	2,5	225
K0692.040301	stainless steel	33	M30	M50x1,5	70	66	106	11	6	2,5	225



Levelling sets

with locknut





Material:
Steel 1.7225.
Stainless steel 1.4305.

Version:
Standard version zinc galvanised and blue passivated.
Stainless steel version bright.

Sample order:
K0693.01004

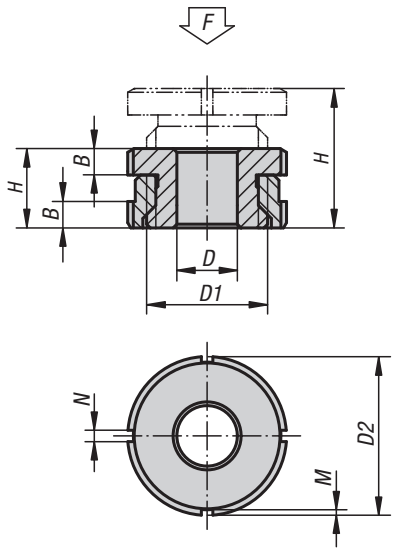
Note:
Levelling sets are used for mounting, levelling and aligning motors, aggregates, drive units and assembly lines. The locknut locks the set height. Other sizes available on request.

KIPP Levelling sets, with locknut

Order No.	Main material	D	for screw	D1	D2	H min.	H max.	B	N	M	F kN
K0693.01004	carbon steel	4,5	M4	M15x1	25	33	43	5	4	2	40
K0693.01005	carbon steel	5,5	M5	M15x1	25	33	43	5	4	2	40
K0693.01006	carbon steel	6,6	M6	M15x1	25	33	43	5	4	2	40
K0693.01406	carbon steel	6,6	M6	M20x1	32	41	55	6	4	2	65
K0693.01408	carbon steel	9	M8	M20x1	32	41	55	6	4	2	65
K0693.01410	carbon steel	11	M10	M20x1	32	41	55	6	4	2	65
K0693.01810	carbon steel	11	M10	M30x1,5	45	49	67	7	5	2	120
K0693.01812	carbon steel	13,5	M12	M30x1,5	45	49	67	7	5	2	120
K0693.01816	carbon steel	17,5	M16	M30x1,5	45	49	67	7	5	2	120
K0693.02316	carbon steel	17,5	M16	M40x1,5	58	63	86	9	6	2,5	210
K0693.02320	carbon steel	22	M20	M40x1,5	58	63	86	9	6	2,5	210
K0693.02324	carbon steel	26	M24	M40x1,5	58	63	86	9	6	2,5	210
K0693.02920	carbon steel	22	M20	M50x1,5	70	77	106	11	6	2,5	330
K0693.02924	carbon steel	26	M24	M50x1,5	70	77	106	11	6	2,5	330
K0693.02930	carbon steel	33	M30	M50x1,5	70	77	106	11	6	2,5	330
K0693.010041	stainless steel	4,5	M4	M15x1	25	33	43	5	4	2	27,1
K0693.010051	stainless steel	5,5	M5	M15x1	25	33	43	5	4	2	27,1
K0693.010061	stainless steel	6,6	M6	M15x1	25	33	43	5	4	2	27,1
K0693.014061	stainless steel	6,6	M6	M20x1	32	41	55	6	4	2	43,4
K0693.014081	stainless steel	9	M8	M20x1	32	41	55	6	4	2	43,4
K0693.014101	stainless steel	11	M10	M20x1	32	41	55	6	4	2	43,4
K0693.018101	stainless steel	11	M10	M30x1,5	45	49	67	7	5	2	84
K0693.018121	stainless steel	13,5	M12	M30x1,5	45	49	67	7	5	2	84
K0693.018161	stainless steel	17,5	M16	M30x1,5	45	49	67	7	5	2	84
K0693.023161	stainless steel	17,5	M16	M40x1,5	58	63	86	9	6	2,5	148
K0693.023201	stainless steel	22	M20	M40x1,5	58	63	86	9	6	2,5	148
K0693.023241	stainless steel	26	M24	M40x1,5	58	63	86	9	6	2,5	148
K0693.029201	stainless steel	22	M20	M50x1,5	70	77	106	11	6	2,5	225
K0693.029241	stainless steel	26	M24	M50x1,5	70	77	106	11	6	2,5	225
K0693.029301	stainless steel	33	M30	M50x1,5	70	77	106	11	6	2,5	225

Levelling sets

low version





Material:
Steel 1.7225.
Stainless steel 1.4305.

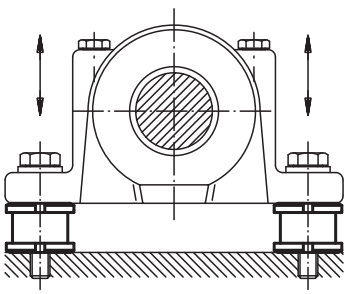
Version:
Standard version zinc galvanised and blue passivated.
Stainless steel version bright.

Sample order:
K0694.0404

Note:
Levelling sets are used for mounting, levelling and aligning motors, aggregates, drive units and assembly lines. This levelling set has an extremely low height. Single levelling sets can be set at several mounting points to achieve a precise and torsion-free alignment.

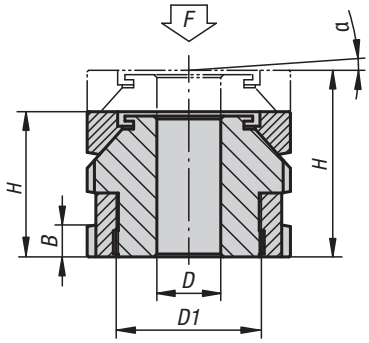
KIPP Levelling sets, low version

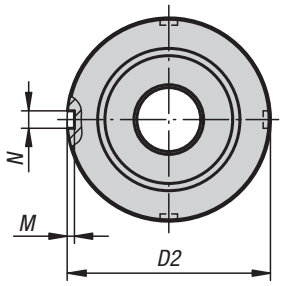
Order No.	Main material	D	for screw	D1	D2	H min.	H max.	B	N	M	F kN
K0694.0404	carbon steel	4,5	M4	M15x1	25	15	19	5	4	2	40
K0694.0405	carbon steel	5,5	M5	M15x1	25	15	19	5	4	2	40
K0694.0406	carbon steel	6,6	M6	M15x1	25	15	19	5	4	2	40
K0694.0506	carbon steel	6,6	M6	M20x1	32	18	23	6	4	2	65
K0694.0508	carbon steel	9	M8	M20x1	32	18	23	6	4	2	65
K0694.0510	carbon steel	11	M10	M20x1	32	18	23	6	4	2	65
K0694.0710	carbon steel	11	M10	M30x1,5	45	22	29	7	5	2	120
K0694.0712	carbon steel	13,5	M12	M30x1,5	45	22	29	7	5	2	120
K0694.0716	carbon steel	17,5	M16	M30x1,5	45	22	29	7	5	2	120
K0694.0916	carbon steel	17,5	M16	M40x1,5	58	28	37	9	6	2,5	210
K0694.0920	carbon steel	22	M20	M40x1,5	58	28	37	9	6	2,5	210
K0694.0924	carbon steel	26	M24	M40x1,5	58	28	37	9	6	2,5	210
K0694.1020	carbon steel	22	M20	M50x1,5	70	33	43	11	6	2,5	330
K0694.1024	carbon steel	26	M24	M50x1,5	70	33	43	11	6	2,5	330
K0694.1030	carbon steel	33	M30	M50x1,5	70	33	43	11	6	2,5	330
K0694.04041	stainless steel	4,5	M4	M15x1	25	15	19	5	4	2	27,1
K0694.04051	stainless steel	5,5	M5	M15x1	25	15	19	5	4	2	27,1
K0694.04061	stainless steel	6,6	M6	M15x1	25	15	19	5	4	2	27,1
K0694.05061	stainless steel	6,6	M6	M20x1	32	18	23	6	4	2	43,4
K0694.05081	stainless steel	9	M8	M20x1	32	18	23	6	4	2	43,4
K0694.05101	stainless steel	11	M10	M20x1	32	18	23	6	4	2	43,4
K0694.07101	stainless steel	11	M10	M30x1,5	45	22	29	7	5	2	84
K0694.07121	stainless steel	13,5	M12	M30x1,5	45	22	29	7	5	2	84
K0694.07161	stainless steel	17,5	M16	M30x1,5	45	22	29	7	5	2	84
K0694.09161	stainless steel	17,5	M16	M40x1,5	58	28	37	9	6	2,5	148
K0694.09201	stainless steel	22	M20	M40x1,5	58	28	37	9	6	2,5	148
K0694.09241	stainless steel	26	M24	M40x1,5	58	28	37	9	6	2,5	148
K0694.10201	stainless steel	22	M20	M50x1,5	70	33	43	11	6	2,5	225
K0694.10241	stainless steel	26	M24	M50x1,5	70	33	43	11	6	2,5	225
K0694.10301	stainless steel	33	M30	M50x1,5	70	33	43	11	6	2,5	225



Levelling sets

spherical washer







Material:
Steel 1.7225.
Stainless steel 1.4305.

Version:
Standard version zinc galvanised and blue passivated.
Stainless steel version bright.

Sample order:
K0695.0406

Note:
Levelling sets with spherical washers are used for mounting, levelling and aligning motors, aggregates, drive units and assembly lines. The spherical washer permits exact alignment when mounting sloping surfaces of up to 4°.

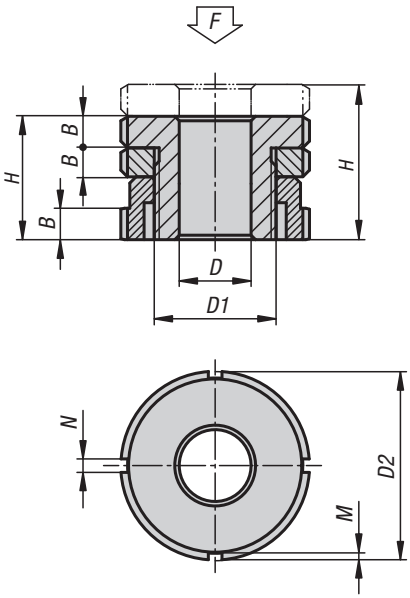
KIPP Levelling sets, spherical washer

Order No.	Main material	D	for screw	D1	D2	H min.	H max.	B	N	M	α	F kN
K0695.0406	carbon steel	6,6	M6	M15x1	25	22	26	5	4	2	4°	40
K0695.0506	carbon steel	6,6	M6	M20x1	32	26	31	6	4	2	4°	65
K0695.0508	carbon steel	9	M8	M20x1	32	26	31	6	4	2	4°	65
K0695.0510	carbon steel	11	M10	M20x1	32	26	31	6	4	2	4°	65
K0695.0710	carbon steel	11	M10	M30x1,5	45	34	41	7	5	2	4°	120
K0695.0712	carbon steel	13,5	M12	M30x1,5	45	34	41	7	5	2	4°	120
K0695.0716	carbon steel	17,5	M16	M30x1,5	45	34	41	7	5	2	4°	120
K0695.0916	carbon steel	17,5	M16	M40x1,5	58	44	53	9	6	2,5	4°	210
K0695.0920	carbon steel	22	M20	M40x1,5	58	44	53	9	6	2,5	4°	210
K0695.0924	carbon steel	26	M24	M40x1,5	58	44	53	9	6	2,5	4°	210
K0695.1020	carbon steel	22	M20	M50x1,5	70	50	60	11	6	2,5	4°	330
K0695.1024	carbon steel	26	M24	M50x1,5	70	50	60	11	6	2,5	4°	330
K0695.1030	carbon steel	33	M30	M50x1,5	70	50	60	11	6	2,5	4°	330
K0695.1224	carbon steel	26	M24	M60x2	80	56	68	11	7	3	4°	495
K0695.1230	carbon steel	33	M30	M60x2	80	56	68	11	7	3	4°	495
K0695.04061	stainless steel	6,6	M6	M15x1	25	22	26	5	4	2	4°	27,1
K0695.05061	stainless steel	6,6	M6	M20x1	32	26	31	6	4	2	4°	43,4
K0695.05081	stainless steel	9	M8	M20x1	32	26	31	6	4	2	4°	43,4
K0695.05101	stainless steel	11	M10	M20x1	32	26	31	6	4	2	4°	43,4
K0695.07101	stainless steel	11	M10	M30x1,5	45	34	41	7	5	2	4°	84
K0695.07121	stainless steel	13,5	M12	M30x1,5	45	34	41	7	5	2	4°	84
K0695.07161	stainless steel	17,5	M16	M30x1,5	45	34	41	7	5	2	4°	84
K0695.09161	stainless steel	17,5	M16	M40x1,5	58	44	53	9	6	2,5	4°	148
K0695.09201	stainless steel	22	M20	M40x1,5	58	44	53	9	6	2,5	4°	148
K0695.09241	stainless steel	26	M24	M40x1,5	58	44	53	9	6	2,5	4°	148
K0695.10201	stainless steel	22	M20	M50x1,5	70	50	60	11	6	2,5	4°	225
K0695.10241	stainless steel	26	M24	M50x1,5	70	50	60	11	6	2,5	4°	225
K0695.10301	stainless steel	33	M30	M50x1,5	70	50	60	11	6	2,5	4°	225
K0695.12241	stainless steel	26	M24	M60x2	80	56	68	11	7	3	4°	323
K0695.12301	stainless steel	33	M30	M60x2	80	56	68	11	7	3	4°	323

Levelling sets

with locknut



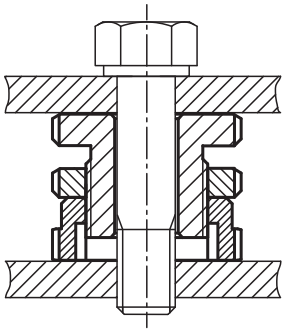


Material:
Steel 1.7225.
Stainless steel 1.4305.

Version:
Standard version zinc galvanised and blue passivated.
Stainless steel version bright.

Sample order:
K0097.0404

Note:
These low version levelling sets with locknut are used to mount and align motors, aggregates, drive units and production lines. The advantage is the low height. Alignments can be made quickly and easily even with several levelling points. Distortion-free mounting is guaranteed. The locknut secures a prescribed adjustment.



Levelling sets

with locknut

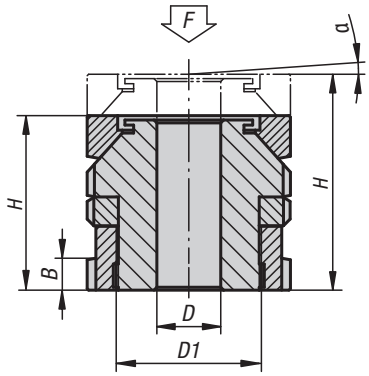
KIPP Levelling sets with locknut

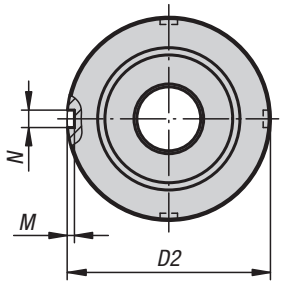
Order No.	Main material	D	for screw	D1	D2	H min.	H max.	B	N	M	F kN
K0097.0404	carbon steel	4,5	M4	M15x1	25	20	24	5	4	2	40
K0097.0405	carbon steel	5,5	M5	M15x1	25	20	24	5	4	2	40
K0097.0406	carbon steel	6,6	M6	M15x1	25	20	24	5	4	2	40
K0097.0506	carbon steel	6,6	M6	M20x1	32	24	29	6	4	2	65
K0097.0508	carbon steel	9	M8	M20x1	32	24	29	6	4	2	65
K0097.0510	carbon steel	11	M10	M20x1	32	24	29	6	4	2	65
K0097.0710	carbon steel	11	M10	M30x1,5	45	29	36	7	5	2	120
K0097.0712	carbon steel	13,5	M12	M30x1,5	45	29	36	7	5	2	120
K0097.0716	carbon steel	17,5	M16	M30x1,5	45	29	36	7	5	2	120
K0097.0916	carbon steel	17,5	M16	M40x1,5	58	37	46	9	6	2,5	210
K0097.0920	carbon steel	22	M20	M40x1,5	58	37	46	9	6	2,5	210
K0097.0924	carbon steel	26	M24	M40x1,5	58	37	46	9	6	2,5	210
K0097.1020	carbon steel	22	M20	M50x1,5	70	44	54	11	6	2,5	330
K0097.1024	carbon steel	26	M24	M50x1,5	70	44	54	11	6	2,5	330
K0097.1030	carbon steel	33	M30	M50x1,5	70	44	54	11	6	2,5	330
K0097.04041	stainless steel	4,5	M4	M15x1	25	20	24	5	4	2	27,1
K0097.04051	stainless steel	5,5	M5	M15x1	25	20	24	5	4	2	27,1
K0097.04061	stainless steel	6,6	M6	M15x1	25	20	24	5	4	2	27,1
K0097.05061	stainless steel	6,6	M6	M20x1	32	24	29	6	4	2	43,4
K0097.05081	stainless steel	9	M8	M20x1	32	24	29	6	4	2	43,4
K0097.05101	stainless steel	11	M10	M20x1	32	24	29	6	4	2	43,4
K0097.07101	stainless steel	11	M10	M30x1,5	45	29	36	7	5	2	84
K0097.07121	stainless steel	13,5	M12	M30x1,5	45	29	36	7	5	2	84
K0097.07161	stainless steel	17,5	M16	M30x1,5	45	29	36	7	5	2	84
K0097.09161	stainless steel	17,5	M16	M40x1,5	58	37	46	9	6	2,5	148
K0097.09201	stainless steel	22	M20	M40x1,5	58	37	46	9	6	2,5	148
K0097.09241	stainless steel	26	M24	M40x1,5	58	37	46	9	6	2,5	148
K0097.10201	stainless steel	22	M20	M50x1,5	70	44	54	11	6	2,5	225
K0097.10241	stainless steel	26	M24	M50x1,5	70	44	54	11	6	2,5	225
K0097.10301	stainless steel	33	M30	M50x1,5	70	44	54	11	6	2,5	225

Levelling sets

spherical washer with locknut







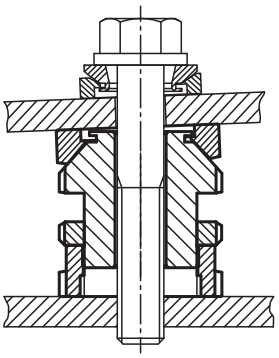
Material:
Steel 1.7225.
Stainless steel 1.4305.

Version:
Standard version zinc galvanised and blue passivated.
Stainless steel version bright.

Sample order:
K0115.0406

Note:
The spherical washer levelling set is used to mount and align motors, aggregates, drive units and production lines. The spherical washer gives exact alignment of sloping faces with an inclination of up to 4°. The locknut secures a prescribed adjustment.

Accessories:
Spherical levelling washers K0691



Levelling sets

spherical washer with locknut

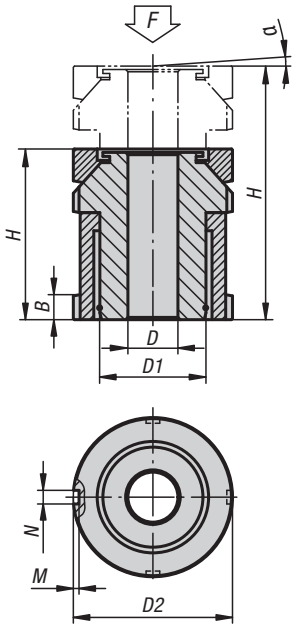
KIPP Levelling sets spherical washer with locknut

Order No.	Main material	D	for screw	D1	D2	H min.	H max.	B	N	M	α	F kN
K0115.0406	carbon steel	6,6	M6	M15x1	25	27	31	5	4	2	4°	40
K0115.0506	carbon steel	6,6	M6	M20x1	32	32	37	6	4	2	4°	65
K0115.0508	carbon steel	9	M8	M20x1	32	32	37	6	4	2	4°	65
K0115.0510	carbon steel	11	M10	M20x1	32	32	37	6	4	2	4°	65
K0115.0710	carbon steel	11	M10	M30x1,5	45	41	48	7	5	2	4°	120
K0115.0712	carbon steel	13,5	M12	M30x1,5	45	41	48	7	5	2	4°	120
K0115.0716	carbon steel	17,5	M16	M30x1,5	45	41	48	7	5	2	4°	120
K0115.0916	carbon steel	17,5	M16	M40x1,5	58	53	62	9	6	2,5	4°	210
K0115.0920	carbon steel	22	M20	M40x1,5	58	53	62	9	6	2,5	4°	210
K0115.0924	carbon steel	26	M24	M40x1,5	58	53	62	9	6	2,5	4°	210
K0115.1020	carbon steel	22	M20	M50x1,5	70	61	71	11	6	2,5	4°	330
K0115.1024	carbon steel	26	M24	M50x1,5	70	61	71	11	6	2,5	4°	330
K0115.1030	carbon steel	33	M30	M50x1,5	70	61	71	11	6	2,5	4°	330
K0115.1224	carbon steel	26	M24	M60x2	80	67	79	11	7	3	4°	495
K0115.1230	carbon steel	33	M30	M60x2	80	67	79	11	7	3	4°	495
K0115.04061	stainless steel	6,6	M6	M15x1	25	27	31	5	4	2	4°	27,1
K0115.05061	stainless steel	6,6	M6	M20x1	32	32	37	6	4	2	4°	43,4
K0115.05081	stainless steel	9	M8	M20x1	32	32	37	6	4	2	4°	43,4
K0115.05101	stainless steel	11	M10	M20x1	32	32	37	6	4	2	4°	43,4
K0115.07101	stainless steel	11	M10	M30x1,5	45	41	48	7	5	2	4°	84
K0115.07121	stainless steel	13,5	M12	M30x1,5	45	41	48	7	5	2	4°	84
K0115.07161	stainless steel	17,5	M16	M30x1,5	45	41	48	7	5	2	4°	84
K0115.09161	stainless steel	17,5	M16	M40x1,5	58	53	62	9	6	2,5	4°	148
K0115.09201	stainless steel	22	M20	M40x1,5	58	53	62	9	6	2,5	4°	148
K0115.09241	stainless steel	26	M24	M40x1,5	58	53	62	9	6	2,5	4°	148
K0115.10201	stainless steel	22	M20	M50x1,5	70	61	71	11	6	2,5	4°	225
K0115.10241	stainless steel	26	M24	M50x1,5	70	61	71	11	6	2,5	4°	225
K0115.10301	stainless steel	33	M30	M50x1,5	70	61	71	11	6	2,5	4°	225
K0115.12241	stainless steel	26	M24	M60x2	80	67	79	11	7	3	4°	323
K0115.12301	stainless steel	33	M30	M60x2	80	67	79	11	7	3	4°	323

Levelling sets

spherical washer





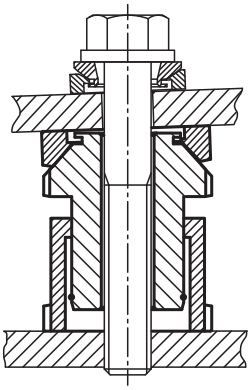
Material:
Steel 1.7225.
Stainless steel 1.4305.

Version:
Standard version zinc galvanised and blue passivated.
Stainless steel version bright.

Sample order:
K0057.1506

Note:
The spherical washer levelling sets are used to mount and align motors, aggregates, drive units and production lines. The spherical washer permits exact alignment when mounting sloping surfaces of up to 4°. These levellers have a long travel of 15 mm to 50 mm.

Accessories:
Spherical levelling washers K0691



Levelling sets

spherical washer

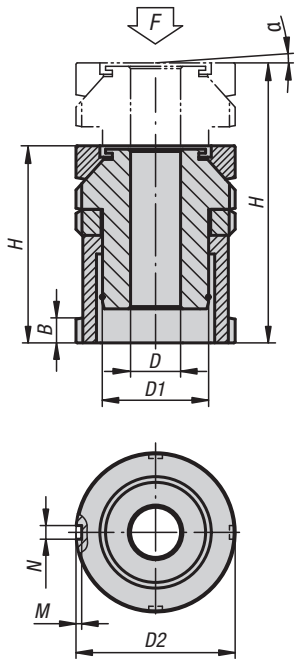
KIPP Levelling sets spherical washer

Order No.	Main material	D	for screw	D1	D2	H min.	H max.	B	N	M	α	F kN
K0057.1506	carbon steel	6,6	M6	M15x1	25	35	50	5	4	2	4°	40
K0057.2006	carbon steel	6,6	M6	M20x1	32	43	63	6	4	2	4°	65
K0057.2008	carbon steel	9	M8	M20x1	32	43	63	6	4	2	4°	65
K0057.2010	carbon steel	11	M10	M20x1	32	43	63	6	4	2	4°	65
K0057.2510	carbon steel	11	M10	M30x1,5	45	54	79	7	5	2	4°	120
K0057.2512	carbon steel	13,5	M12	M30x1,5	45	54	79	7	5	2	4°	120
K0057.2516	carbon steel	17,5	M16	M30x1,5	45	54	79	7	5	2	4°	120
K0057.3216	carbon steel	17,5	M16	M40x1,5	58	70	102	9	6	2,5	4°	210
K0057.3220	carbon steel	22	M20	M40x1,5	58	70	102	9	6	2,5	4°	210
K0057.3224	carbon steel	26	M24	M40x1,5	58	70	102	9	6	2,5	4°	210
K0057.4020	carbon steel	22	M20	M50x1,5	70	83	123	11	6	2,5	4°	330
K0057.4024	carbon steel	26	M24	M50x1,5	70	83	123	11	6	2,5	4°	330
K0057.4030	carbon steel	33	M30	M50x1,5	70	83	123	11	6	2,5	4°	330
K0057.5024	carbon steel	26	M24	M60x2	80	94	144	11	7	3	4°	495
K0057.5030	carbon steel	33	M30	M60x2	80	94	144	11	7	3	4°	495
K0057.15061	stainless steel	6,6	M6	M15x1	25	35	50	5	4	2	4°	27,1
K0057.20061	stainless steel	6,6	M6	M20x1	32	43	63	6	4	2	4°	43,4
K0057.20081	stainless steel	9	M8	M20x1	32	43	63	6	4	2	4°	43,4
K0057.20101	stainless steel	11	M10	M20x1	32	43	63	6	4	2	4°	43,4
K0057.25101	stainless steel	11	M10	M30x1,5	45	54	79	7	5	2	4°	84
K0057.25121	stainless steel	13,5	M12	M30x1,5	45	54	79	7	5	2	4°	84
K0057.25161	stainless steel	17,5	M16	M30x1,5	45	54	79	7	5	2	4°	84
K0057.32161	stainless steel	17,5	M16	M40x1,5	58	70	102	9	6	2,5	4°	148
K0057.32201	stainless steel	22	M20	M40x1,5	58	70	102	9	6	2,5	4°	148
K0057.32241	stainless steel	26	M24	M40x1,5	58	70	102	9	6	2,5	4°	148
K0057.40201	stainless steel	22	M20	M50x1,5	70	83	123	11	6	2,5	4°	225
K0057.40241	stainless steel	26	M24	M50x1,5	70	83	123	11	6	2,5	4°	225
K0057.40301	stainless steel	33	M30	M50x1,5	70	83	123	11	6	2,5	4°	225
K0057.50241	stainless steel	26	M24	M60x2	80	94	144	11	7	3	4°	323
K0057.50301	stainless steel	33	M30	M60x2	80	94	144	11	7	3	4°	323

Levelling sets

spherical washer with locknut





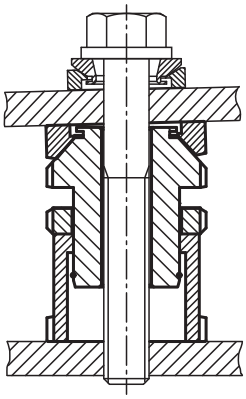
Material:
Steel 1.7225.
Stainless steel 1.4305.

Version:
Standard version zinc galvanised and blue passivated.
Stainless steel version bright.

Sample order:
K0119.1006

Note:
The spherical washer levelling sets are used to mount and align motors, aggregates, drive units and production lines. The spherical washer permits exact alignment when mounting sloping surfaces of up to 4°. The locknut secures a prescribed adjustment. These levellers have a long travel of 10 mm to 39 mm.

Accessories:
Spherical levelling washers K0691



Levelling sets

spherical washer with locknut

KIPP Levelling sets spherical washer with locknut

Order No.	Main material	D	for screw	D1	D2	H min.	H max.	B	N	M	α	F kN
K0119.1006	carbon steel	6,6	M6	M15x1	25	40	50	5	4	2	4°	40
K0119.1406	carbon steel	6,6	M6	M20x1	32	49	63	6	4	2	4°	65
K0119.1408	carbon steel	9	M8	M20x1	32	49	63	6	4	2	4°	65
K0119.1410	carbon steel	11	M10	M20x1	32	49	63	6	4	2	4°	65
K0119.1810	carbon steel	11	M10	M30x1,5	45	61	79	7	5	2	4°	120
K0119.1812	carbon steel	13,5	M12	M30x1,5	45	61	79	7	5	2	4°	120
K0119.1816	carbon steel	17,5	M16	M30x1,5	45	61	79	7	5	2	4°	120
K0119.2316	carbon steel	17,5	M16	M40x1,5	58	79	102	9	6	2,5	4°	210
K0119.2320	carbon steel	22	M20	M40x1,5	58	79	102	9	6	2,5	4°	210
K0119.2324	carbon steel	26	M24	M40x1,5	58	79	102	9	6	2,5	4°	210
K0119.2920	carbon steel	22	M20	M50x1,5	70	94	123	11	6	2,5	4°	330
K0119.2924	carbon steel	26	M24	M50x1,5	70	94	123	11	6	2,5	4°	330
K0119.2930	carbon steel	33	M30	M50x1,5	70	94	123	11	6	2,5	4°	330
K0119.3924	carbon steel	26	M24	M60x2	80	105	144	11	7	3	4°	495
K0119.3930	carbon steel	33	M30	M60x2	80	105	144	11	7	3	4°	495
K0119.10061	stainless steel	6,6	M6	M15x1	25	40	50	5	4	2	4°	27,1
K0119.14061	stainless steel	6,6	M6	M20x1	32	49	63	6	4	2	4°	43,4
K0119.14081	stainless steel	9	M8	M20x1	32	49	63	6	4	2	4°	43,4
K0119.14101	stainless steel	11	M10	M20x1	32	49	63	6	4	2	4°	43,4
K0119.18101	stainless steel	11	M10	M30x1,5	45	61	79	7	5	2	4°	84
K0119.18121	stainless steel	13,5	M12	M30x1,5	45	61	79	7	5	2	4°	84
K0119.18161	stainless steel	17,5	M16	M30x1,5	45	61	79	7	5	2	4°	84
K0119.23161	stainless steel	17,5	M16	M40x1,5	58	79	102	9	6	2,5	4°	148
K0119.23201	stainless steel	22	M20	M40x1,5	58	79	102	9	6	2,5	4°	148
K0119.23241	stainless steel	26	M24	M40x1,5	58	79	102	9	6	2,5	4°	148
K0119.29201	stainless steel	22	M20	M50x1,5	70	94	123	11	6	2,5	4°	225
K0119.29241	stainless steel	26	M24	M50x1,5	70	94	123	11	6	2,5	4°	225
K0119.29301	stainless steel	33	M30	M50x1,5	70	94	123	11	6	2,5	4°	225
K0119.39241	stainless steel	26	M24	M60x2	80	105	144	11	7	3	4°	323
K0119.39301	stainless steel	33	M30	M60x2	80	105	144	11	7	3	4°	323

Machine and fixture components



Technical information for sliding clamps K1070 and K1072

Note:

The items are used as movable clamping elements on applications such as measuring scales.

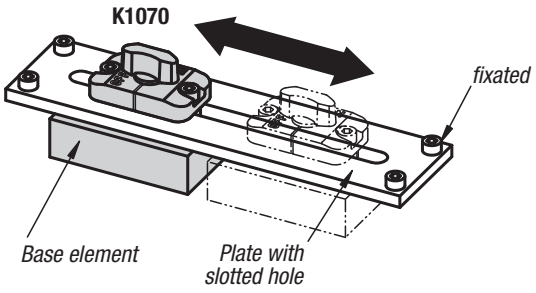
Turning the knob to “ON”, operates the clamping mechanism. In the “OFF” position the element is movable. The switch must be in the “OFF” position during assembly.

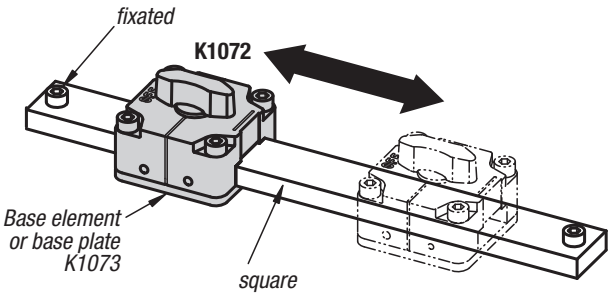
If the sliding clamp is mounted directly on a base plate and the plate with slotted hole or square bar is secured, the sliding clamp and the base plate can be moved.

If the sliding clamp is mounted directly on a base plate and the base plate is secured, the plate with slotted hole or square bar can be moved.

Operating mode 1:

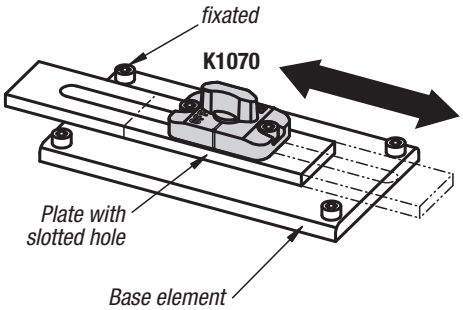
Sliding clamp with base element moveable – plates with slotted hole or square fixed

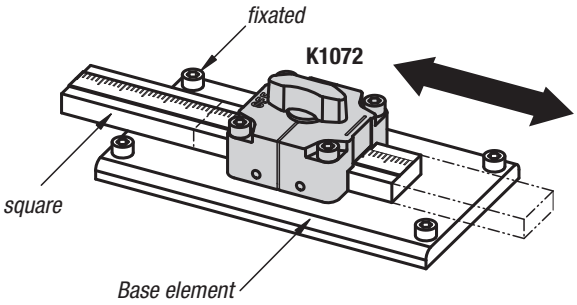




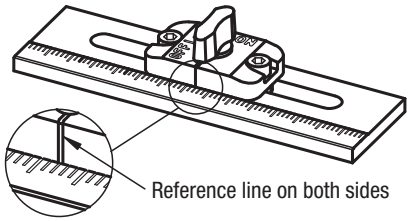
Operating mode 2:

Plates with slotted hole or square bar moveable - Sliding clamp with base element fixated

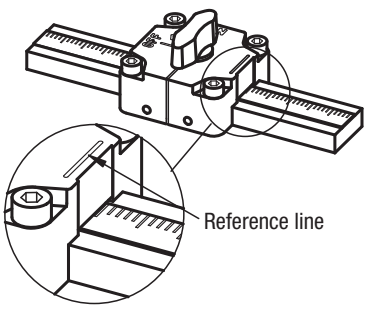




Application example K1070

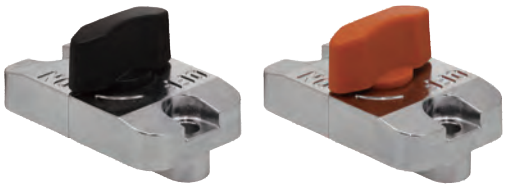


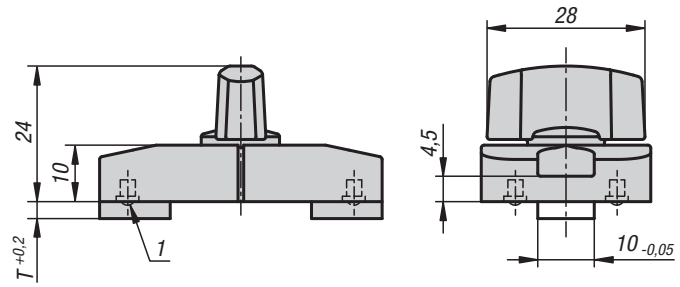
Application example K1072

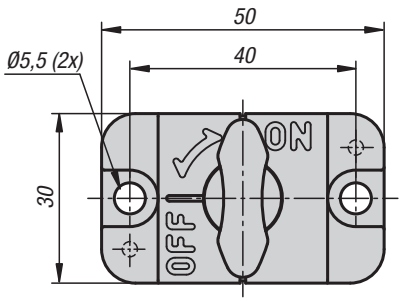


Sliding clamps

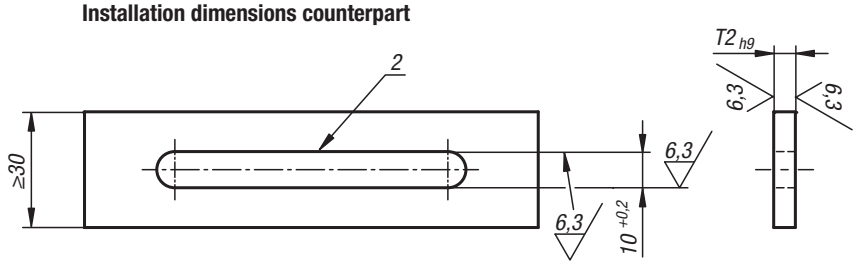
for slotted holes



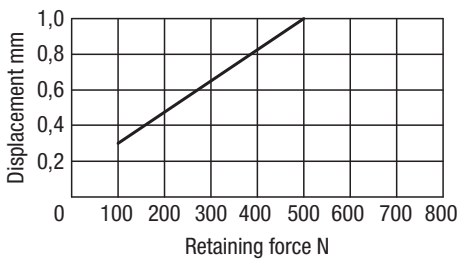


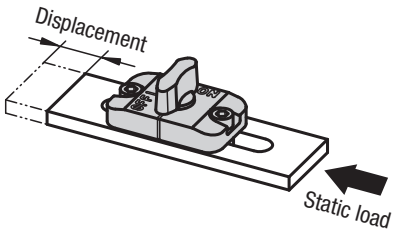


Installation dimensions counterpart



Displacement on static load from one direction





The forces apply to steel or stainless steel plates

Material:
Housing die-cast zinc.
Knob thermoplastic PA (polyamide).

Pins and wedge stainless steel.
Thrust pad POM.

Version:
Housing chromed.
Knob black or orange, glass-bead reinforced.

Sample order:
K1070.32

Note:
Sliding clamps for slotted holes are inserted into an upper plate with an 10-mm-wide slotted hole and then fixed to the base plate. The knob must be turned to the “OFF” position while the component is being installed. The sliding clamps are used for precision plates with a thickness of 3 mm or 6 mm. For other thicknesses shim plates K1071 must be used.
By turning the knob, the pins mounted in the bottom section of sliding clamp are drawn together by the springs and forced downwards. The two pins press against the surface and clamp the sliding clamp.
Two spring plungers lift the sliding clamp in the “ON” position allowing easier movement.

Accessories:
Base plates K1071.

Functional principle:
The sliding clamps have 2 different operating principles.

Operating principle 1:
The sliding clamp is movable.
The sliding clamp is bolted onto a loose plate or block placed under a fixated slotted plate. The sliding clamp together with the plate or block can be slid up and down the fixated slotted plate.

Operating principle 2:
The sliding clamp is fixated.
The sliding clamp is bolted onto a fixated plate or block placed under a loose slotted plate. The sliding clamp cannot move but the slotted plate can be slid up and down over the fixated plate or block.

Drawing reference:
1) Spring plungers (2x)
2) Chamfer ~0,3

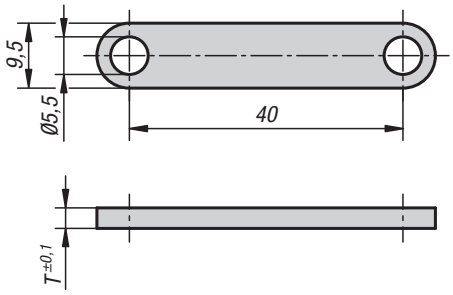
KIPP Sliding clamps for slotted holes

Order No. black	Order No. Orange	T	T2	Holding force N	Temp. resistance up to
K1070.31	**K1070.32**	3	3	500	90 °C
K1070.61	**K1070.62**	6	6	500	90 °C

Shim plates

for sliding clamps for slotted hole



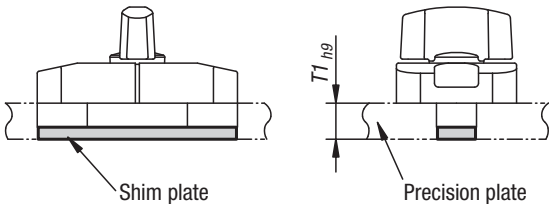


Material:
Stainless steel

Version:
Bright.

Sample order:
K1071.2

Note:
Shim plates are required for sliding clamps for slotted holes with a plate thickness more than 3 mm or 6 mm.



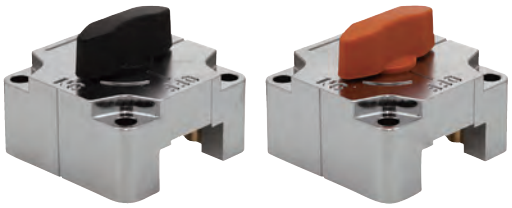
Sliding clamp for slotted holes	Suitable shim plate	Precision plate T1 (mm)
K1070.31 K1070.32	-	3 -0,25
	K1071.2	5 -0,3
K1070.61 K1070.62	-	6 -0,3
	K1071.2	8 -0,36
	K1071.3	9 -0,36

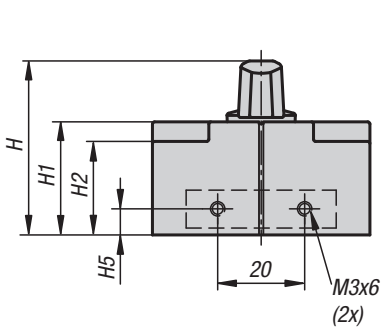
KIPP Shim plates for sliding clamps for slotted hole

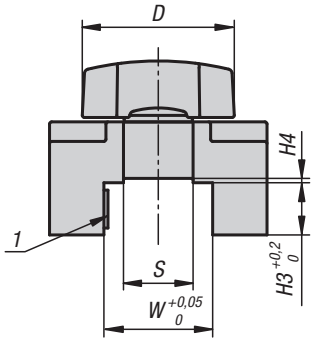
Order No.	T
K1071.2	2
K1071.3	3

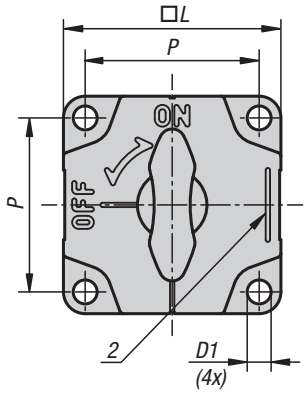
Sliding clamps

for square bars

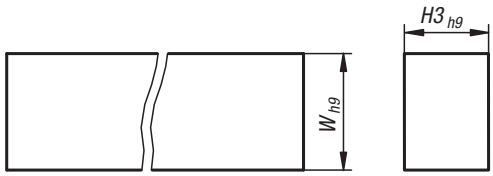




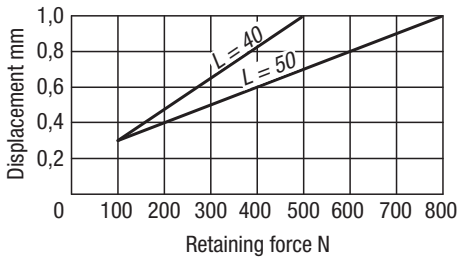


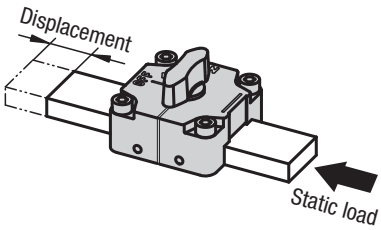


Installation dimensions counterpart square bar



Displacement on static load from one direction





The forces apply to steel or stainless steel square material

Material:
Housing die-cast zinc.
Knob thermoplastic PA (polyamide).
Pins and wedge stainless steel.
Leaf spring phosphated bronze.

Version:
Housing chromed.
Knob black or orange, glass-bead reinforced.
Pins and wedge bright.

Sample order:
K1072.16162

Note:
By turning the knob, the pins mounted in the bottom section of the sliding clamp are drawn together by the springs and forced downwards. The two pins press against the surface and fixate the sliding clamp.

Accessories:
Base plates K1073.
Scales stainless steel K0759.

Functional principle:
The sliding clamps have 2 different operating principles.

Operating principle 1:
The sliding clamp is movable.
The sliding clamp is bolted onto a base plate (K1073), loose plate or block placed under a fixated rectangular bar. The sliding clamp together with the plate or block can be slid up and down the fixated bar.

Operating principle 2:
The sliding clamp is fixated.
The sliding clamp is bolted onto a fixated plate or block placed under a loose rectangular bar. The sliding clamp cannot move but the bar can be slid up and down over the fixated plate or block.

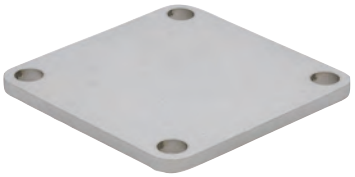
Drawing reference:
1) Leaf spring
2) Reading line for scales

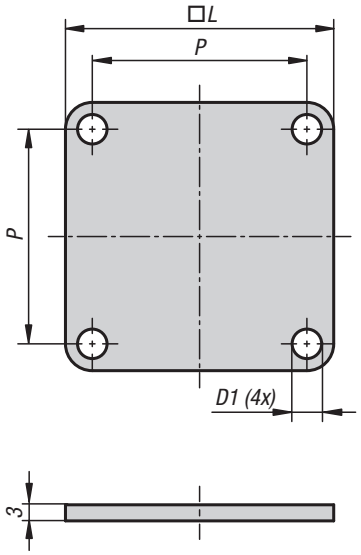
KIPP Sliding clamp for square bars

Order No. black	Order No. Orange	L	D	D1	H	H1	H2	H3	H4	H5	P	W	S	Holding force N	Temp. resistance up to
K1072.12121	**K1072.12122**	40	28	4,5	36	22	18,5	12	-	6	32	12	-	500	90 °C
K1072.16161	**K1072.16162**	40	28	4,5	40	26	22,5	16	-	8	32	16	-	500	90 °C
K1072.2591	**K1072.2592**	50	35	5,5	37	23	18,5	9	1	4,5	40	25	16	800	90 °C
K1072.25121	**K1072.25122**	50	35	5,5	40	26	21,5	12	1	6	40	25	16	800	90 °C
K1072.32121	**K1072.32122**	50	35	5,5	40	26	21,5	12	1	6	40	32	16	800	90 °C
K1072.32161	**K1072.32162**	50	35	5,5	44	30	25,5	16	1	8	40	32	16	800	90 °C

Base plates

for sliding clamp for square bars





Material:
Stainless steel

Version:
Bright.

Sample order:
K1073.40

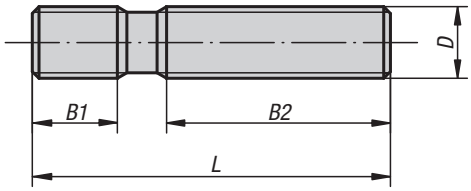
Note:
Base plates raise the sliding clamp by 3 mm.
It is used to mount the sliding clamp to a fixated square bar.

KIPP Base plate for sliding clamps for square bars

Order No.	L	D1	P
K1073.40	40	4,5	32
K1073.50	50	5,5	40

Studs

DIN 6379





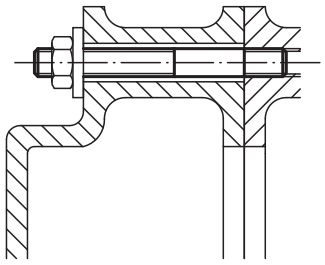
Material:
Carbon steel.

Version:
Thread rolled.
M6-M12 tempered to 10.9, black.
M14-M36 tempered to 8.8, black.

Sample order:
K0697.12125

KIPP Studs DIN 6379

Order No.	D	L	B1	B2
K0697.0632	M6	32	9	16
K0697.0640	M6	40	9	20
K0697.0650	M6	50	9	30
K0697.0663	M6	63	9	40
K0697.0680	M6	80	9	50
K0697.06100	M6	100	9	63
K0697.0840	M8	40	11	20
K0697.0863	M8	63	11	40
K0697.0880	M8	80	11	50
K0697.08100	M8	100	11	63
K0697.08125	M8	125	11	75
K0697.08160	M8	160	11	100
K0697.1050	M10	50	13	25
K0697.1080	M10	80	13	50
K0697.10100	M10	100	13	75
K0697.10125	M10	125	13	75
K0697.10160	M10	160	13	100
K0697.10200	M10	200	13	125
K0697.1250	M12	50	15	25
K0697.1263	M12	63	15	32
K0697.1280	M12	80	15	50
K0697.12100	M12	100	15	63
K0697.12125	M12	125	15	75
K0697.12160	M12	160	15	100
K0697.12200	M12	200	15	125
K0697.1463	M14	63	17	32
K0697.1480	M14	80	17	50
K0697.14100	M14	100	17	63
K0697.14125	M14	125	17	75
K0697.14160	M14	160	17	100
K0697.14200	M14	200	17	125
K0697.14250	M14	250	17	160
K0697.1663	M16	63	19	32
K0697.1680	M16	80	19	50
K0697.16100	M16	100	19	63
K0697.16125	M16	125	19	75
K0697.16160	M16	160	19	100
K0697.16200	M16	200	19	125
K0697.16250	M16	250	19	160
K0697.16315	M16	315	19	180



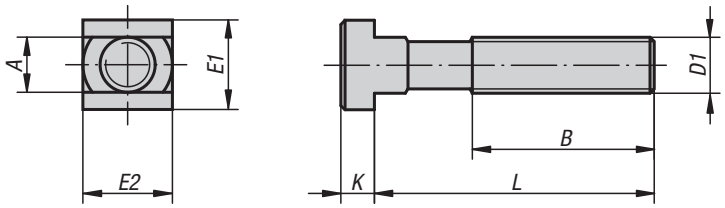
Studs

DIN 6379

Order No.	D	L	B1	B2
K0697.16350	M16	350	19	200
K0697.16500	M16	500	20	315
K0697.1880	M18	80	23	50
K0697.18125	M18	125	23	75
K0697.18160	M18	160	23	100
K0697.18200	M18	200	23	125
K0697.18250	M18	250	23	150
K0697.18315	M18	315	23	180
K0697.2080	M20	80	27	32
K0697.20125	M20	125	27	70
K0697.20160	M20	160	27	100
K0697.20200	M20	200	27	125
K0697.20250	M20	250	27	160
K0697.20315	M20	315	27	200
K0697.20400	M20	400	27	250
K0697.20500	M20	500	27	315
K0697.22100	M22	100	31	45
K0697.22160	M22	160	31	100
K0697.22200	M22	200	31	125
K0697.22250	M22	250	31	160
K0697.22315	M22	315	31	180
K0697.22400	M22	400	31	250
K0697.24100	M24	100	35	45
K0697.24125	M24	125	35	63
K0697.24160	M24	160	35	100
K0697.24200	M24	200	35	125
K0697.24250	M24	250	35	160
K0697.24315	M24	315	35	200
K0697.24400	M24	400	35	250
K0697.24500	M24	500	35	315
K0697.24630	M24	630	35	315
K0697.27125	M27	125	39	56
K0697.27200	M27	200	39	125
K0697.27315	M27	315	39	200
K0697.27400	M27	400	39	250
K0697.27500	M27	500	39	315
K0697.30125	M30	125	43	56
K0697.30200	M30	200	43	125
K0697.30315	M30	315	43	200
K0697.30500	M30	500	43	315
K0697.30700	M30	700	43	400
K0697.301000	M30	1000	44	400
K0697.36160	M36	160	51	80
K0697.36200	M36	200	51	125
K0697.36250	M36	250	51	160
K0697.36315	M36	315	51	200
K0697.36400	M36	400	51	250
K0697.36500	M36	500	51	315
K0697.36700	M36	700	51	400

T-slot bolts

DIN 787





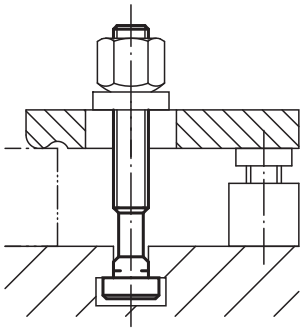
KIPP T-slot bolts DIN 787

Order No.	Nominal slot size	D1	L	A	B	E1/E2	K
K0698.0625	6	M6	25	5,7	15	10	4
K0698.0640	6	M6	40	5,7	28	10	4
K0698.0663	6	M6	63	5,7	40	10	4
K0698.0832	8	M8	32	7,7	22	13	6
K0698.0850	8	M8	50	7,7	35	13	6
K0698.0880	8	M8	80	7,7	50	13	6
K0698.1040	10	M10	40	9,7	30	15	6
K0698.1063	10	M10	63	9,7	45	15	6
K0698.10100	10	M10	100	9,7	60	15	6
K0698.1250	12	M12	50	11,7	35	18	7
K0698.1263	12	M12	63	11,7	40	18	7
K0698.1280	12	M12	80	11,7	55	18	7
K0698.12100	12	M12	100	11,7	65	18	7
K0698.12125	12	M12	125	11,7	75	18	7
K0698.12160	12	M12	160	11,7	100	18	7
K0698.12200	12	M12	200	11,7	120	18	7
K0698.1450	14	M12	50	13,7	35	22	8
K0698.1463	14	M12	63	13,7	45	22	8
K0698.1480	14	M12	80	13,7	55	22	8
K0698.14100	14	M12	100	13,7	65	22	8
K0698.14125	14	M12	125	13,7	75	22	8
K0698.14160	14	M12	160	13,7	100	22	8
K0698.14200	14	M12	200	13,7	120	22	8
K0698.16631	16	M14	63	15,7	45	25	9
K0698.16801	16	M14	80	15,7	55	25	9
K0698.161001	16	M14	100	15,7	65	25	9
K0698.161251	16	M14	125	15,7	75	25	9
K0698.161601	16	M14	160	15,7	100	25	9
K0698.162501	16	M14	250	15,7	150	25	9
K0698.1663	16	M16	63	15,7	45	25	9
K0698.1680	16	M16	80	15,7	55	25	9
K0698.16100	16	M16	100	15,7	65	25	9
K0698.16125	16	M16	125	15,7	85	25	9
K0698.16160	16	M16	160	15,7	100	25	9
K0698.16200	16	M16	200	15,7	125	25	9
K0698.16250	16	M16	250	15,7	150	25	9
K0698.1863	18	M16	63	17,7	45	28	10

Material:
Carbon steel.

Version:
Forged and milled, rolled thread.
M6-M12 tempered to 10.9, black.
M14-M36 tempered to 8.8, black.

Sample order:
K0698.1263



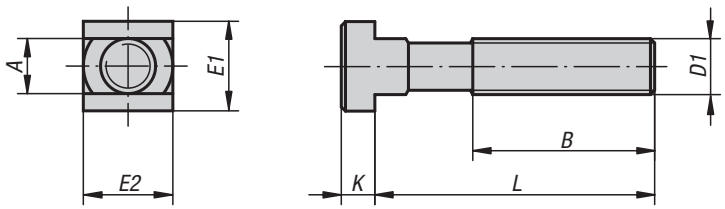
T-slot bolts

DIN 787

Order No.	Nominal slot size	D1	L	A	B	E1/E2	K
K0698.1880	18	M16	80	17,7	55	28	10
K0698.18100	18	M16	100	17,7	65	28	10
K0698.18125	18	M16	125	17,7	85	28	10
K0698.18160	18	M16	160	17,7	100	28	10
K0698.18200	18	M16	200	17,7	125	28	10
K0698.18250	18	M16	250	17,7	150	28	10
K0698.2080	20	M20	80	19,7	55	32	12
K0698.20100	20	M20	100	19,7	65	32	12
K0698.20125	20	M20	125	19,7	85	32	12
K0698.20160	20	M20	160	19,7	110	32	12
K0698.20200	20	M20	200	19,7	125	32	12
K0698.20250	20	M20	250	19,7	150	32	12
K0698.20315	20	M20	315	19,7	190	32	12
K0698.2280	22	M20	80	21,7	55	35	14
K0698.22100	22	M20	100	21,7	65	35	14
K0698.22125	22	M20	125	21,7	85	35	14
K0698.22160	22	M20	160	21,7	110	35	14
K0698.22200	22	M20	200	21,7	125	35	14
K0698.22250	22	M20	250	21,7	150	35	14
K0698.22315	22	M20	315	21,7	190	35	14
K0698.24100	24	M24	100	23,7	70	40	16
K0698.24125	24	M24	125	23,7	85	40	16
K0698.24160	24	M24	160	23,7	110	40	16
K0698.24200	24	M24	200	23,7	125	40	16
K0698.24250	24	M24	250	23,7	150	40	16
K0698.24315	24	M24	315	23,7	190	40	16
K0698.24400	24	M24	400	23,7	240	40	16
K0698.28100	28	M24	100	27,7	70	44	18
K0698.28125	28	M24	125	27,7	85	44	18
K0698.28160	28	M24	160	27,7	110	44	18
K0698.28200	28	M24	200	27,7	125	44	18
K0698.28250	28	M24	250	27,7	150	44	18
K0698.28315	28	M24	315	27,7	190	44	18
K0698.28400	28	M24	400	27,7	240	44	18
K0698.36125	36	M30	125	35,6	80	54	22
K0698.36160	36	M30	160	35,6	110	54	22
K0698.36200	36	M30	200	35,6	135	54	22
K0698.36250	36	M30	250	35,6	150	54	22
K0698.36315	36	M30	315	35,6	200	54	22
K0698.36500	36	M30	500	35,6	300	54	22
K0698.42160	42	M36	160	41,6	100	65	26
K0698.42250	42	M36	250	41,6	175	65	26
K0698.42400	42	M36	400	41,6	250	65	26

T-slot bolts

DIN 787, 12.9





KIPP T-slot bolts DIN 787, 12.9

Order No.	Nominal slot size	D1	L	A	B	E1/E2	K
K0699.11250	12	M12	50	11,7	35	18	7
K0699.11280	12	M12	80	11,7	55	18	7
K0699.112100	12	M12	100	11,7	65	18	7
K0699.112125	12	M12	125	11,7	75	18	7
K0699.112160	12	M12	160	11,7	100	18	7
K0699.112200	12	M12	200	11,7	120	18	7
K0699.11450	14	M12	50	13,7	35	22	8
K0699.11480	14	M12	80	13,7	55	22	8
K0699.114100	14	M12	100	13,7	65	22	8
K0699.114125	14	M12	125	13,7	75	22	8
K0699.114160	14	M12	160	13,7	100	22	8
K0699.114200	14	M12	200	13,7	120	22	8
K0699.11663	16	M16	63	15,7	45	25	9
K0699.116100	16	M16	100	15,7	65	25	9
K0699.116125	16	M16	125	15,7	85	25	9
K0699.116160	16	M16	160	15,7	100	25	9
K0699.116250	16	M16	250	15,7	150	25	9
K0699.11863	18	M16	63	17,7	45	28	10
K0699.118100	18	M16	100	17,7	65	28	10
K0699.118125	18	M16	125	17,7	85	28	10
K0699.118160	18	M16	160	17,7	100	28	10
K0699.118250	18	M16	250	17,7	150	28	10
K0699.12080	20	M20	80	19,7	55	32	12
K0699.120125	20	M20	125	19,7	85	32	12
K0699.120200	20	M20	200	19,7	125	32	12
K0699.120315	20	M20	315	19,7	190	32	12
K0699.12280	22	M20	80	21,7	55	35	14
K0699.122125	22	M20	125	21,7	85	35	14
K0699.122200	22	M20	200	21,7	125	35	14
K0699.122315	22	M20	315	21,7	190	35	14
K0699.124100	24	M24	100	23,7	70	40	16
K0699.124160	24	M24	160	23,7	110	40	16
K0699.124250	24	M24	250	23,7	150	40	16
K0699.124400	24	M24	400	23,7	240	40	16
K0699.128100	28	M24	100	27,7	70	44	18
K0699.128160	28	M24	160	27,7	110	44	18
K0699.128250	28	M24	250	27,7	150	44	18
K0699.128400	28	M24	400	27,7	240	44	18

Material:
Carbon steel.

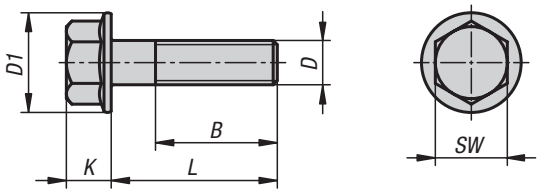
Version:
Forged and milled, rolled thread, tempered to 12.9, black.

Sample order:
K0699.112125

Hexagon head bolts with flange

EN 1665





Material:
Steel or stainless steel (A 2)

Version:
Steel grade 8.8, galvanized.
Steel grade 10.9, galvanized.
Bright stainless steel.

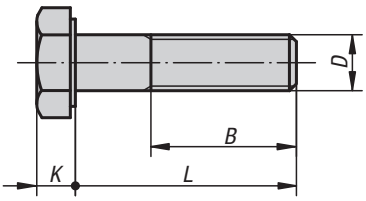
Sample order:
K1161.406X12 (include length L)

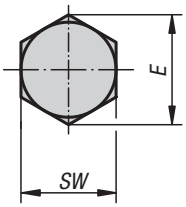
KIPP Hexagon head screws with flange EN 1665

Order No.	Main material	Grade	D	L	B	D1	SW	K
K1161.406X	steel	8.8	M6	12/16/20/25/30	18	14,2	10	6,6
K1161.408X	steel	8.8	M8	12/16/20/25/30/35/40/50/60	22	18	13	8,1
K1161.410X	steel	8.8	M10	20/25/30/35/40/50	26	22,3	15	9,2
K1161.412X	steel	8.8	M12	20/25/30/40/50	30	26,6	16	11,5
K1161.416X	steel	8.8	M16	30/35/40/45/50/70	38	35	21	14,4
K1161.506X	steel	10.9	M6	12/16/20/25/30	18	14,2	10	6,6
K1161.508X	steel	10.9	M8	12/16/20/25/30/35/40	22	18	13	8,1
K1161.510X	steel	10.9	M10	25/30/40	26	22,3	15	9,2
K1161.512X	steel	10.9	M12	20/35/40/45/50	30	26,6	16	11,5
K1161.516X	steel	10.9	M16	30/35/40/45/50/60	38	35	21	14,4
K1161.106X	stainless steel	-	M6	12/16/20/25/30	18	14,2	10	6,6
K1161.108X	stainless steel	-	M8	16/20/25/30/35/40/50	22	18	13	8,1
K1161.110X	stainless steel	-	M10	20/25/30/35/40/50/60	26	22,3	15	9,2

Hexagon head bolts

DIN 931/DIN EN ISO 4014/DIN EN 24014





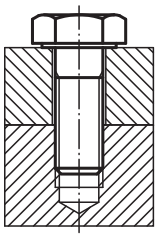


Material:
Steel or stainless steel (A 2)

Version:
Steel grade 8.8, black or galvanised.
Steel grade 10.9, black or galvanised.
Steel grade 12.9, black.
Stainless steel A 2-70, bright.

Sample order:
K0870.110X50 (include length L)

On request:
DIN ISO 272 spanner sizes.



KIPP Hexagon head bolts DIN 931/DIN EN ISO 4014/DIN EN 24014

Order No. steel Grade 8.8	Order No. steel Grade 10.9	Surface	D	L	B	SW	E	K
K0870.04X	-	-	M4	25/30/35/40/45/50	14	7	7,66	2,8
K0870.05X	-	-	M5	25/30/35/40/45/50/60	16	8	8,79	3,5
K0870.06X	K0870.306X	-	M6	30/35/40/45/50/60/70	18	10	11,05	4
K0870.08X	K0870.308X	-	M8	35/40/45/50/60/70/80	22	13	14,38	5,3
K0870.10X	K0870.310X	-	M10	40/45/50/60/70/80/90/100	26	17	18,9	6,4
K0870.12X	K0870.312X	-	M12	45/50/60/70/80/90/100/110/120	30	19	21,1	7,5
K0870.16X	K0870.316X	-	M16	60/70/80/90/100/110/120	38	24	26,75	10
K0870.20X	K0870.320X	-	M20	70/80/90/100/110/120	46	30	33,53	12,5
K0870.404X	-	Galvanized	M4	25/30/35/40/45/50	14	7	7,66	2,8
K0870.405X	-	Galvanized	M5	25/30/35/40/45/50/60	16	8	8,79	3,5
K0870.406X	K0870.506X	Galvanized	M6	30/35/40/45/50/60/70	18	10	11,05	4
K0870.408X	K0870.508X	Galvanized	M8	35/40/45/50/60/70/80	22	13	14,38	5,3
K0870.410X	K0870.510X	Galvanized	M10	40/45/50/60/70/80/90/100	26	17	18,9	6,4
K0870.412X	K0870.512X	Galvanized	M12	45/50/60/70/80/90/100/110/120	30	19	21,1	7,5
K0870.416X	K0870.516X	Galvanized	M16	60/70/80/90/100/110/120	38	24	26,75	10
K0870.420X	K0870.520X	Galvanized	M20	70/80/90/100/110/120	46	30	33,53	12,5

Hexagon head bolts

DIN 931/DIN EN ISO 4014/DIN EN 24014

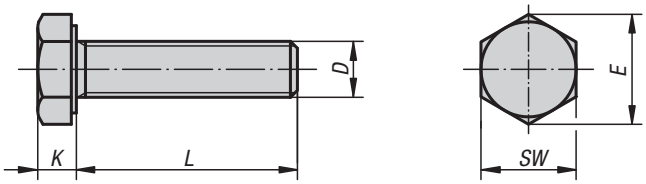
Order No.	Main material	Grade	D	L	B	SW	E	K
K0870.210X	steel	12.9	M10	40/45/50/60/70/80/90/100	26	17	18,9	6,4
K0870.212X	steel	12.9	M12	45/50/60/70/80/90/100/120	30	19	21,1	7,5
K0870.216X	steel	12.9	M16	60/70/80/90/100/120	38	24	26,75	10
K0870.220X	steel	12.9	M20	70/80/90/100/120	46	30	33,53	12,5

Order No.	Main material	D	L	B	SW	E	K
K0870.105X	stainless steel	M5	25/30/35/40/45/50/60	16	8	8,79	3,5
K0870.106X	stainless steel	M6	30/35/40/45/50/60/70	18	10	11,05	4
K0870.108X	stainless steel	M8	35/40/45/50/60/70/80	22	13	14,38	5,3
K0870.110X	stainless steel	M10	40/45/50/60/70/80/90/100	26	17	18,9	6,4
K0870.112X	stainless steel	M12	45/50/60/70/80/90/100/110/120	30	19	21,1	7,5
K0870.116X	stainless steel	M16	60/70/80/90/100/110/120	38	24	26,75	10

Hexagon head bolts

DIN 933





Material:
Steel or stainless steel (A 2)

Version:
Steel grade 8.8, black or galvanised.
Steel grade 10.9, black or galvanised.
Steel grade 12.9, black.
Stainless steel A 2-70, bright.

Sample order:
K0871.05X40 (include length L)

KIPP Hexagon head bolts DIN 933

Order No. steel Grade 8.8	Order No. steel Grade 10.9	Surface	D	L	K	SW	E
K0871.04X	-	-	M4	10/12/16/18/20/25	2,8	7	7,66
K0871.05X	-	-	M5	10/12/16/18/20/25/30/35/40	3,5	8	8,79
K0871.06X	**K0871.306X**	-	M6	10/12/16/18/20/25/30/35/40/45/50/55/60	4	10	11,05
K0871.08X	**K0871.308X**	-	M8	16/18/20/25/30/35/40/45/50/60/70/80/90/100	5,3	13	14,38
K0871.10X	**K0871.310X**	-	M10	16/18/20/25/30/35/40/45/50/60/70/80/90/100	6,4	17	18,9
K0871.12X	**K0871.312X**	-	M12	20/25/30/35/40/45/50/60/70/80/90/100/110/120	7,5	19	21,1
K0871.14X	-	-	M14	30/35/40/45/50/60/70/80/90/100/110/120	8,8	22	24,49
K0871.16X	**K0871.316X**	-	M16	30/35/40/45/50/60/70/80/90/100/110/120	10	24	26,75
K0871.20X	**K0871.320X**	-	M20	40/45/50/60/70/80/90/100/110/120	12,5	30	33,53
K0871.404X	-	Galvanized	M4	10/12/16/18/20/25	2,8	7	7,66
K0871.405X	-	Galvanized	M5	10/12/16/18/20/25/30/35/40	3,5	8	8,79
K0871.406X	**K0871.506X**	Galvanized	M6	10/12/16/18/20/25/30/35/40/45/50/55/60	4	10	11,05
K0871.408X	**K0871.508X**	Galvanized	M8	16/18/20/25/30/35/40/45/50/60/70/80/90/100	5,3	13	14,38
K0871.410X	**K0871.510X**	Galvanized	M10	16/18/20/25/30/35/40/45/50/60/70/80/90/100	6,4	17	18,9
K0871.412X	**K0871.512X**	Galvanized	M12	20/25/30/35/40/45/50/60/70/80/90/100/110/120	7,5	19	21,1
K0871.414X	-	Galvanized	M14	30/35/40/45/50/60/70/80/90/100/110/120	8,8	22	24,49
K0871.416X	**K0871.516X**	Galvanized	M16	30/35/40/45/50/60/70/80/90/100/110/120	10	24	26,75
K0871.420X	**K0871.520X**	Galvanized	M20	40/45/50/60/70/80/90/100/110/120	12,5	30	33,53

Hexagon head bolts

DIN 933

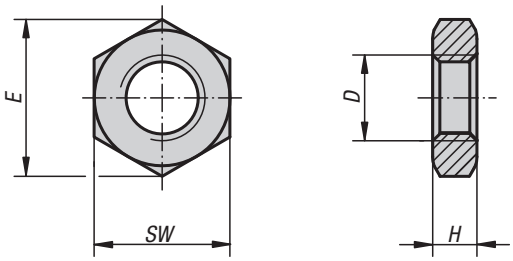
Order No.	Main material	Grade	D	L	SW	E	K
K0871.206X	steel	12.9	M6	12/16/20/25/30	10	11,05	4
K0871.208X	steel	12.9	M8	16/20/25/30/35/40/45/50/60	13	14,38	5,3
K0871.210X	steel	12.9	M10	20/25/30/35/40/45/50/60	17	18,9	6,4
K0871.212X	steel	12.9	M12	25/30/35/40/45/50/60	19	21,1	7,5
K0871.216X	steel	12.9	M16	30/35/40/45/50/60/70/80/90/100	24	26,75	10
K0871.220X	steel	12.9	M20	40/45/50/60/70/80/90/100	30	33,53	12,5

Order No.	Main material	D	L	SW	E	K
K0871.104X	stainless steel	M4	10/12/16/18/20/25	7	7,66	2,8
K0871.105X	stainless steel	M5	10/12/16/18/20/25/30/35/40	8	8,79	3,5
K0871.106X	stainless steel	M6	10/12/16/18/20/25/30/35/40/45/50/55/60	10	11,05	4
K0871.108X	stainless steel	M8	16/18/20/25/30/35/40/45/50/60/70/80/90/100	13	14,38	5,3
K0871.110X	stainless steel	M10	16/18/20/25/30/35/40/45/50/60/70/80/90/100	17	18,9	6,4
K0871.112X	stainless steel	M12	20/25/30/35/40/45/50/60/70/80/90/100/110/120	19	21,1	7,5
K0871.116X	stainless steel	M16	30/35/40/45/50/60/70/80/90/100/110/120	24	26,75	10
K0871.120X	stainless steel	M20	40/45/50/60/70/80/90/100/110/120	30	33,53	12,5

Hexagon nuts thin

DIN 439





Material:
Steel or stainless steel (A 2)

Version:
Steel grade 04, galvanized or black oxidised.
Stainless steel A2, bright.

Sample order:
K0700.10

Note:
These hexagon nuts are used in screw connections exposed to limited loads, e.g. as a locknut for clevis joints or rod ends.

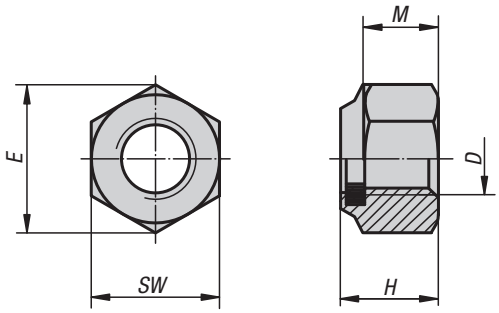
KIPP Hexagon nuts thin DIN 439

Order No. steel galvanised	Order No. stainless steel bright	Order No. steel black oxidised	Version	D	E	H	SW
K0700.05	K0700.105	K0700.205	RH thread	M5	8,79	2,7	8
K0700.06	K0700.106	K0700.206	RH thread	M6	11,05	3,2	10
K0700.006	K0700.1062	K0700.2063	RH thread	M6x0,75	11,05	3,2	10
K0700.08	K0700.108	K0700.208	RH thread	M8	14,38	4	13
K0700.008	K0700.1083	K0700.2083	RH thread	M8x1	14,38	4	13
K0700.10	K0700.110	K0700.210	RH thread	M10	18,9	5	17
K0700.103	K0700.1103	K0700.2103	RH thread	M10x1	18,9	5	17
K0700.104	K0700.1104	-	RH thread	M10x1,25	18,9	5	17
K0700.12	K0700.112	K0700.212	RH thread	M12	21,1	6	19
K0700.123	K0700.1123	-	RH thread	M12x1,25	21,1	6	19
K0700.124	K0700.1124	K0700.2124	RH thread	M12x1,5	21,1	6	19
K0700.14	K0700.114	-	RH thread	M14	24,49	7	22
K0700.16	K0700.116	K0700.216	RH thread	M16	26,76	8	24
K0700.163	K0700.1163	K0700.2163	RH thread	M16x1,5	26,76	8	24
K0700.183	-	-	RH thread	M18x1,5	29,56	9	27
K0700.20	K0700.120	-	RH thread	M20	32,95	10	30
K0700.203	K0700.1203	K0700.2203	RH thread	M20x1,5	32,95	10	30
K0700.223	K0700.1223	-	RH thread	M22x1,5	36,9	10	32
K0700.24	K0700.1244	-	RH thread	M24	39,55	12	36
-	K0700.1243	K0700.2243	RH thread	M24x2	39,6	12	36
K0700.30	-	-	RH thread	M30	50,85	15	46
K0700.061	K0700.1061	-	LH thread	M6	11,05	3,2	10
K0700.081	K0700.1081	-	LH thread	M8	14,38	4	13
K0700.101	K0700.1101	-	LH thread	M10	18,9	5	17
K0700.1031	K0700.11031	-	LH thread	M10x1	18,9	5	17
K0700.1041	K0700.11041	-	LH thread	M10x1,25	18,9	5	17
K0700.121	K0700.1121	-	LH thread	M12	21,1	6	19
K0700.1231	K0700.11231	-	LH thread	M12x1,25	21,1	6	19
K0700.1241	K0700.11241	-	LH thread	M12x1,5	21,1	6	19
K0700.161	K0700.1161	-	LH thread	M16	26,76	8	24
K0700.2031	K0700.12031	-	LH thread	M20x1,5	32,95	10	30
K0700.2231	K0700.12231	-	LH thread	M22x1,5	36,9	10	32

Hexagon nuts with polyamide thread lock

high type, DIN 982





Material:
Steel or stainless steel (A 2)

Version:
Galvanised steel.
Bright stainless steel.

Sample order:
K1147.204

Note:
When screwing the nuts onto the thread, the thread lock is plastically and elastically deformed. The elastic deformation causes a radial frictional lock against the nuts being loosened.

The plastic thread lock is only effective when the nuts are fully screwed onto the male thread. The screw length must be selected so that at least two full threads protrude from the nut.

Due to the plastic deformation of the thread lock, these nuts should only be used once.

Temperature range:
-50°C to +120°C.

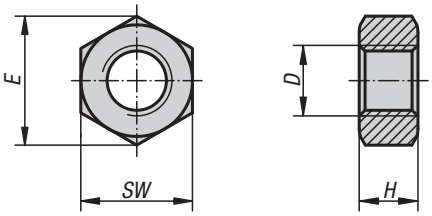
KIPP Hexagon nuts with polyamide thread lock, high type DIN 982

Order No.	Main material	Grade	D	E	H	M	SW
K1147.204	steel	6-8	M4	7,66	6	2,9	7
K1147.205	steel	8	M5	8,79	6,3	4,4	8
K1147.206	steel	8	M6	11,05	8	4,9	10
K1147.208	steel	8	M8	14,38	9,5	6,44	13
K1147.210	steel	8	M10	18,9	11,5	8,04	17
K1147.212	steel	8	M12	21,1	14	10,37	19
K1147.214	steel	8	M14	23,9	16	12,1	22
K1147.216	steel	8	M16	26,76	18	14,1	24
K1147.220	steel	8	M20	32,95	22	16,9	30
K1147.224	steel	8	M24	39,55	28	20,2	36
K1147.310	steel	10	M10	18,9	11,5	8,04	17
K1147.312	steel	10	M12	21,1	14	10,37	19
K1147.316	steel	10	M16	26,76	18	14,1	24
K1147.320	steel	10	M20	32,95	22	16,9	30
K1147.324	steel	10	M24	39,55	28	20,2	36
K1147.105	stainless steel	-	M5	8,79	6,3	4,4	8
K1147.106	stainless steel	-	M6	11,05	8	4,9	10
K1147.108	stainless steel	-	M8	14,38	9,5	6,44	13
K1147.110	stainless steel	-	M10	18,9	11,5	8,04	17
K1147.112	stainless steel	-	M12	21,1	14	10,37	19
K1147.116	stainless steel	-	M16	26,76	18	14,1	24
K1147.120	stainless steel	-	M20	32,95	22	16,9	30

Hexagon nuts

DIN 934/DIN EN ISO 4032/DIN EN 24032





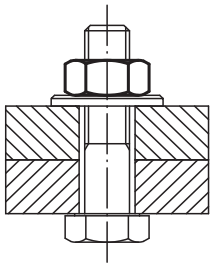
Material:
Steel or stainless steel (A 2)

Version:
Steel grade 8, bright or galvanised.
Steel grade 10, bright or galvanised.
Steel grade 12, bright.
Stainless steel A 2-70, bright.

Sample order:
K1145.10

Note:
The nut grade must always be the same or higher than the bolt grade, i.e. bolts with grade 8.8 are always paired with nuts grade 8 or higher, but never less.

On request:
DIN ISO 272 spanner sizes.



Hexagon nuts

DIN 934/DIN EN ISO 4032/DIN EN 24032

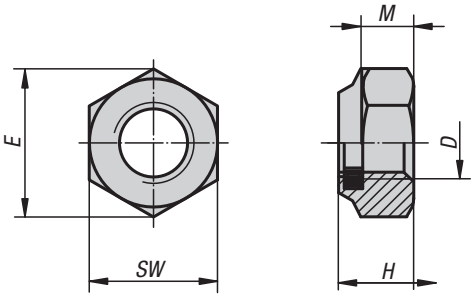
KIPP Hexagon nuts DIN 934/DIN EN ISO 4032/DIN EN 24032

Order No. steel Grade 8	Order No. steel Grade 10	Order No. steel Grade 12	Order No. stainless steel Grade 70	Surface	D	E	H	SW
K1145.03	**K1145.403**	-	**K1145.103**	bright	M3	6,01	2,4	5,5
K1145.04	**K1145.404**	-	**K1145.104**	bright	M4	7,66	3,2	7
K1145.05	**K1145.405**	-	**K1145.105**	bright	M5	8,79	4	8
K1145.06	**K1145.406**	**K1145.506**	**K1145.106**	bright	M6	11,05	5	10
K1145.08	**K1145.408**	**K1145.508**	**K1145.108**	bright	M8	14,38	6,5	13
K1145.10	**K1145.410**	**K1145.510**	**K1145.110**	bright	M10	18,9	8	17
K1145.12	**K1145.412**	**K1145.512**	**K1145.112**	bright	M12	21,1	10	19
K1145.14	**K1145.414**	-	**K1145.114**	bright	M14	23,9	11	22
K1145.16	**K1145.416**	**K1145.516**	**K1145.116**	bright	M16	26,76	13	24
K1145.20	**K1145.420**	**K1145.520**	**K1145.120**	bright	M20	32,95	16	30
K1145.22	**K1145.422**	-	**K1145.122**	bright	M22	35	18	32
K1145.24	**K1145.424**	**K1145.524**	**K1145.124**	bright	M24	39,6	19	36
K1145.27	**K1145.427**	**K1145.527**	**K1145.127**	bright	M27	45,2	22	41
K1145.30	**K1145.430**	**K1145.530**	**K1145.130**	bright	M30	50,9	24	46
K1145.33	**K1145.433**	-	**K1145.133**	bright	M33	55,4	26	50
K1145.36	**K1145.436**	**K1145.536**	**K1145.136**	bright	M36	60,8	29	55
K1145.203	-	-	-	galvanised	M3	6,01	2,4	5,5
K1145.204	**K1145.304**	-	-	galvanised	M4	7,66	3,2	7
K1145.205	**K1145.305**	-	-	galvanised	M5	8,79	4	8
K1145.206	**K1145.306**	-	-	galvanised	M6	11,05	5	10
K1145.208	**K1145.308**	-	-	galvanised	M8	14,38	6,5	13
K1145.210	**K1145.310**	-	-	galvanised	M10	18,9	8	17
K1145.212	**K1145.312**	-	-	galvanised	M12	21,1	10	19
K1145.214	**K1145.314**	-	-	galvanised	M14	23,9	11	22
K1145.216	**K1145.316**	-	-	galvanised	M16	26,76	13	24
K1145.220	**K1145.320**	-	-	galvanised	M20	32,95	16	30
K1145.222	**K1145.322**	-	-	galvanised	M22	35	18	32
K1145.224	**K1145.324**	-	-	galvanised	M24	39,6	19	36
K1145.227	**K1145.327**	-	-	galvanised	M27	45,2	22	41
K1145.230	**K1145.330**	-	-	galvanised	M30	50,9	24	46
K1145.233	**K1145.333**	-	-	galvanised	M33	55,4	26	50
K1145.236	**K1145.336**	-	-	galvanised	M36	60,8	29	55

Hexagon nuts with polyamide thread lock

thin type, DIN 985





Material:
Steel or stainless steel (A 2)

Version:
Galvanised steel.
Bright stainless steel.

Sample order:
K1148.203

Note:
When screwing the nuts onto the thread, the thread lock is plastically and elastically deformed. The elastic deformation causes a radial frictional lock against the nuts being loosened.

The plastic thread lock is only effective when the nuts are fully screwed onto the male thread. The screw length must be selected so that at least two full threads protrude from the nut.

Due to the plastic deformation of the thread lock, these nuts should only be used once.

Temperature range:
-50°C to +120°C.

KIPP Hexagon nuts with polyamide thread lock, thin type DIN 985

Order No. steel Grade 6-8	Order No. steel Grade 8	Order No. steel Grade 10	D	E	H	M	SW
K1148.203	-	-	M3	6,08	4	2,4	5,5
K1148.204	-	-	M4	7,66	5	2,9	7
K1148.205	-	-	M5	8,79	5	3,2	8
-	**K1148.206**	**K1148.306**	M6	11,05	6	4	10
-	**K1148.208**	**K1148.308**	M8	14,38	8	5,5	13
-	**K1148.210**	**K1148.310**	M10	18,9	10	6,5	17
-	**K1148.212**	**K1148.312**	M12	21,1	12	8	19
-	**K1148.214**	**K1148.314**	M14	23,9	14	9,5	22
-	**K1148.216**	**K1148.316**	M16	26,76	16	10,5	24
-	**K1148.220**	**K1148.320**	M20	32,95	20	14	30
-	**K1148.224**	-	M24	39,55	24	15	36
-	**K1148.227**	**K1148.327**	M27	45,2	27	17	41
-	**K1148.230**	**K1148.330**	M30	50,85	30	19	46
-	-	**K1148.324**	M24	35	24	15	36

Hexagon nuts with polyamide thread lock

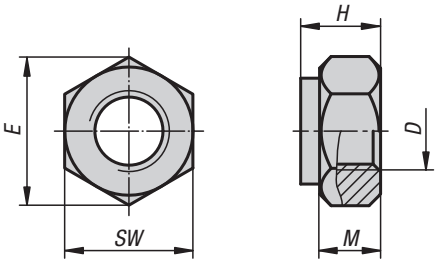
thin type, DIN 985

Order No.	Main material	D	E	H	M	SW
K1148.103	stainless steel	M3	6,08	4	2,4	5,5
K1148.104	stainless steel	M4	7,66	5	2,9	7
K1148.105	stainless steel	M5	8,79	5	3,2	8
K1148.106	stainless steel	M6	11,05	6	4	10
K1148.108	stainless steel	M8	14,38	8	5,5	13
K1148.110	stainless steel	M10	18,9	10	6,5	17
K1148.112	stainless steel	M12	21,1	12	8	19
K1148.114	stainless steel	M14	23,9	14	9,5	22
K1148.116	stainless steel	M16	26,76	16	10,5	24
K1148.120	stainless steel	M20	32,95	20	14	30
K1148.124	stainless steel	M24	39,55	24	15	36
K1148.127	stainless steel	M27	45,2	27	17	41
K1148.130	stainless steel	M30	50,85	30	19	46

Hexagon nuts with thread lock

DIN 980





Material:
Steel or stainless steel (A 2)

Version:
Galvanised steel.
Bright stainless steel.

Sample order:
K1146.204

Note:
Hexagon nuts with thread lock DIN 980, Form V (all-metal nut, one piece).

KIPP Hexagon nuts with thread lock DIN 980

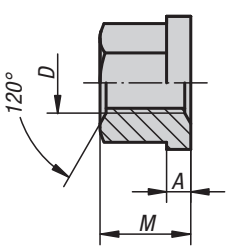
Order No. steel Grade 8	Order No. steel Grade 10	D	E	H	M	SW
K1146.204	-	M4	7,66	4,2	2,2	7
K1146.205	-	M5	8,79	5,1	2,75	8
K1146.206	-	M6	11,05	6	3,3	10
K1146.208	**K1146.308**	M8	14,38	8	4,4	13
K1146.210	**K1146.310**	M10	18,9	10	5,5	17
K1146.212	**K1146.312**	M12	21,1	12	6,6	19
K1146.214	**K1146.314**	M14	23,9	14	7,7	22
K1146.216	**K1146.316**	M16	26,76	16	8,8	24
K1146.220	**K1146.320**	M20	32,95	20	11	30
K1146.224	**K1146.324**	M24	39,55/35	24	13,2	36
K1146.227	**K1146.327**	M27	45,2	27	14,8	41
K1146.230	**K1146.330**	M30	50,85	30	16,5	46

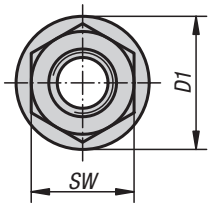
Order No.	Main material	D	E	H	M	SW
K1146.104	stainless steel	M4	7,66	4,2	2,2	7
K1146.105	stainless steel	M5	8,79	5,1	2,75	8
K1146.106	stainless steel	M6	11,05	6	3,3	10
K1146.108	stainless steel	M8	14,38	8	4,4	13
K1146.110	stainless steel	M10	18,9	10	5,5	17
K1146.112	stainless steel	M12	21,1	12	6,6	19
K1146.114	stainless steel	M14	23,9	14	7,7	22
K1146.116	stainless steel	M16	26,76	16	8,8	24
K1146.120	stainless steel	M20	32,95	20	11	30
K1146.124	stainless steel	M24	39,55	24	13,2	36

Hexagon nuts with collar

height 1.5xD, DIN 6331 enhanced



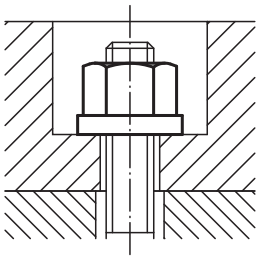




Material:
Carbon steel or stainless steel 1.4301.

Version:
Steel grade 10, black.
Stainless steel bright.

Sample order:
K0701.16

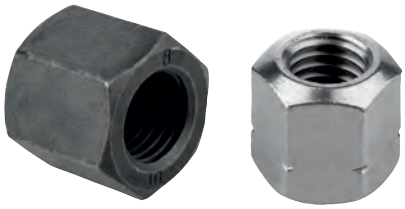


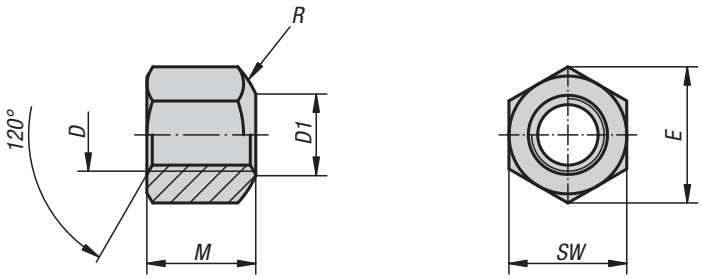
KIPP Hexagon nuts with collar height 1.5xD, DIN 6331 enhanced

Order No. high carbon steel -	Order No. stainless steel 1.4301	D	M = 1,5 x D	A	D1	SW
K0701.05	-	M5	7,5	2	12	9
K0701.06	**K0701.806**	M6	9	3	14	10
K0701.08	**K0701.808**	M8	12	3,5	18	13
K0701.10	**K0701.810**	M10	15	4	22	16
K0701.101	**K0701.811**	M10	15	4	22	17
K0701.12	**K0701.812**	M12	18	4	25	18
K0701.121	**K0701.8121**	M12	18	4	25	19
K0701.14	-	M14	21	4,5	28	22
K0701.16	**K0701.816**	M16	24	5	31	24
K0701.18	-	M18	27	5	34	27
K0701.20	**K0701.820**	M20	30	6	37	30
K0701.22	-	M22	33	6	40	34
K0701.24	-	M24	36	6	45	36
K0701.30	-	M30	45	8	58	46
K0701.36	-	M36	54	10	68	55

Hexagon nuts

height 1.5xD, DIN 6330 enhanced



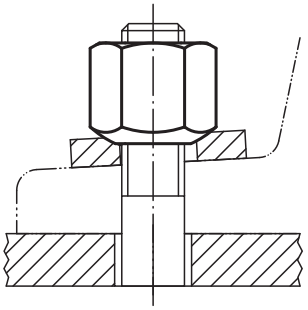


Material:
Carbon steel or stainless steel (A2).

Version:
Tempered to 10, black.
Stainless steel A 2-70, bright.

Sample order:
K0702.12

Note:
These hexagon nuts can be used with the conical seats K0729, Form D and G.



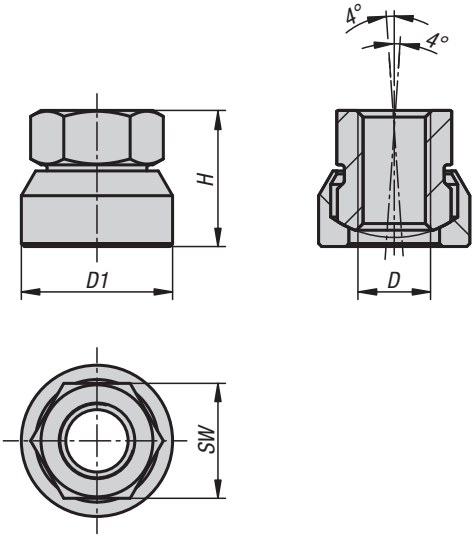
KIPP Hexagon nuts height 1.5xD, DIN 6330 enhanced

Order No.	Main material	D	M = 1,5 x D	D1	SW	E	R
K0702.05	carbon steel	M5	7,5	6,5	9	10,4	7
K0702.06	carbon steel	M6	9	7	10	11,5	9
K0702.08	carbon steel	M8	12	9	13	15	11
K0702.10	carbon steel	M10	15	11,5	16	18,4	15
K0702.101	carbon steel	M10	15	11,5	17	19,6	15
K0702.12	carbon steel	M12	18	14	18	20,7	17
K0702.121	carbon steel	M12	18	14	19	21,9	17
K0702.14	carbon steel	M14	21	16	22	25,4	20
K0702.16	carbon steel	M16	24	18	24	27,7	22
K0702.18	carbon steel	M18	27	20	27	31,2	24,5
K0702.20	carbon steel	M20	30	22	30	34,6	27
K0702.22	carbon steel	M22	33	24	32	36,9	29
K0702.24	carbon steel	M24	36	26	36	41,6	32
K0702.30	carbon steel	M30	45	32	46	53,1	41
K0702.36	carbon steel	M36	54	38	55	63,5	50
K0702.806	stainless steel	M6	9	7	10	11,5	9
K0702.808	stainless steel	M8	12	9	13	15	11
K0702.810	stainless steel	M10	15	11,5	16	18,4	15
K0702.811	stainless steel	M10	15	11,5	17	19,6	15
K0702.812	stainless steel	M12	18	14	18	20,7	17
K0702.816	stainless steel	M16	24	18	24	27,7	22
K0702.820	stainless steel	M20	30	22	30	34,6	27

Hexagon nuts

with spherical seat



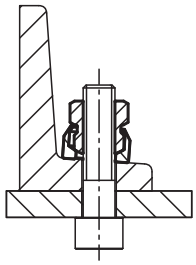


Material:
Carbon steel or stainless steel.

Version:
Steel version:
tempered to 900 N/mm², black oxidised.
Stainless steel version:
Tempered to 900 N/mm², bright.

Sample order:
K0794.12

Note:
Captive components (one-piece).

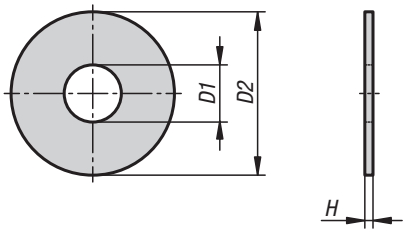


KIPP Hexagon nuts with spherical seat

Order No.	Main material	D	D1	H	SW
K0794.08	steel	M8	18	15	13
K0794.10	steel	M10	22	18,5	17
K0794.12	steel	M12	25	22,5	19
K0794.16	steel	M16	31	29	24
K0794.808	stainless steel	M8	18	15	13
K0794.810	stainless steel	M10	22	18,5	17
K0794.812	stainless steel	M12	25	22,5	19
K0794.816	stainless steel	M16	31	29	24

Washers with large OD

DIN 9021





Material:
Steel or stainless steel (A 2)

Version:
Galvanised steel, hardness
D1 ≤ 14 = 140 HV.
D1 > 17 = 100 HV.
Stainless steel, bright.

Sample order:
K1150.03

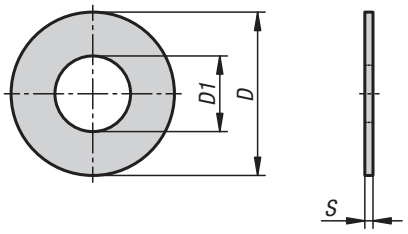
Note:
The pulleys have an OD of D2 = ~3 × D1.

KIPP Washers with large OD DIN 9021

Order No. steel	Order No. stainless steel	for screws	D1	D2	H
K1150.03	**K1150.103**	M3	3,2	9	0,8
K1150.04	**K1150.104**	M4	4,3	12	1
K1150.05	**K1150.105**	M5	5,3	15	1,2
K1150.06	**K1150.106**	M6	6,4	18	1,6
K1150.08	**K1150.108**	M8	8,4	24	2
K1150.10	**K1150.110**	M10	10,5	30	2,5
K1150.12	**K1150.112**	M12	13	37	3
K1150.14	**K1150.114**	M14	15	44	3
K1150.16	**K1150.116**	M16	17	50	3
K1150.18	**K1150.118**	M18	20	56	4
K1150.20	**K1150.120**	M20	22	60	4
K1150.24	**K1150.124**	M24	26	72	5
K1150.30	-	M30	33	92	6

Shim washers

DIN 988





Material:
Steel.

Version:
Bright.

Sample order:
K1151.0306010
(include dimension S e.g. 010 for S = 0,1 mm.)

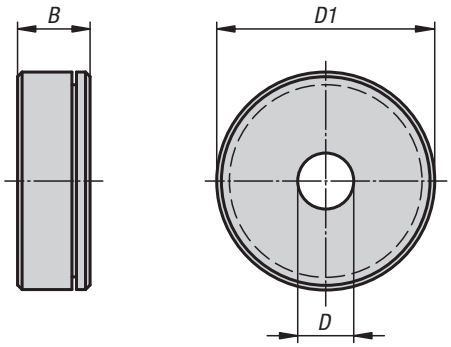
Note:
With shim washers, an existing axial backlash can be significantly reduced. They are available with a thicknesses from 0.1 mm. Any thicknesses can made by combining several shim washers.

KIPP Shim washers DIN 988

Order No.	Main material	D	D1	S
K1151.0306* **	steel	6	3	0,1/0,15/0,2/0,25/0,3/0,5/1
K1151.0408* **	steel	8	4	0,1/0,15/0,2/0,3/0,5/1
K1151.0510* **	steel	10	5	0,1/0,15/0,2/0,25/0,3/0,5/1
K1151.0612* **	steel	12	6	0,1/0,2/0,25/0,3/0,5/1
K1151.0713* **	steel	13	7	0,1/0,2/0,3/0,5/1
K1151.0814* **	steel	14	8	0,1/0,15/0,2/0,25/0,3/0,5/1
K1151.0915* **	steel	15	9	0,1/0,15/0,2/0,3/0,5/1
K1151.1016* **	steel	16	10	0,1/0,15/0,2/0,25/0,3/0,5/1
K1151.1117* **	steel	17	11	0,1/0,2/0,25/0,3/0,5/1
K1151.1218* **	steel	18	12	0,1/0,15/0,2/0,25/0,3/0,5/1
K1151.1319* **	steel	19	13	0,1/0,15/0,2/0,25/0,3/0,5/1
K1151.1420* **	steel	20	14	0,1/0,15/0,2/0,25/0,3/0,5/1
K1151.1521* **	steel	21	15	0,1/0,15/0,2/0,25/0,3/0,5/1/1,2
K1151.1622* **	steel	22	16	0,15/0,2/0,25/0,3/0,5/1/1,2
K1151.1724* **	steel	24	17	0,1/0,15/0,2/0,25/0,3/0,5/1/1,2
K1151.1825* **	steel	25	18	0,1/0,15/0,2/0,25/0,3/0,5/1/1,2
K1151.1926* **	steel	26	19	0,1/0,15/0,2/0,25/0,3/0,5/1/1,2
K1151.2028* **	steel	28	20	0,1/0,15/0,2/0,25/0,3/0,5/1/1,2/1,5
K1151.2230* **	steel	30	22	0,1/0,15/0,2/0,25/0,3/0,5/1/1,2/1,5
K1151.2535* **	steel	35	25	0,1/0,15/0,2/0,25/0,3/0,5/1/1,2/1,5
K1151.2637* **	steel	37	26	0,1/0,15/0,2/0,25/0,3/0,5/1/1,2/1,5
K1151.2840* **	steel	40	28	0,1/0,15/0,2/0,25/0,3/0,5/1/1,2/1,5
K1151.3042* **	steel	42	30	0,1/0,15/0,2/0,25/0,3/0,5/1/1,2/1,5/2
K1151.3245* **	steel	45	32	0,1/0,15/0,2/0,25/0,3/0,5/1/1,2/1,5/2
K1151.3545* **	steel	45	35	0,1/0,15/0,2/0,25/0,3/0,5/1/1,2/1,5/2
K1151.3645* **	steel	45	36	0,1/0,15/0,2/0,25/0,3/0,5/1/1,2/1,5/2
K1151.3747* **	steel	47	37	0,1/0,15/0,2/0,25/0,3/0,5/1/1,2/1,5/2
K1151.4050* **	steel	50	40	0,1/0,15/0,2/0,25/0,3/0,5/1/1,2/1,5/2
K1151.4252* **	steel	52	42	0,1/0,15/0,2/0,25/0,3/0,5/1/1,2/1,5/2
K1151.4555* **	steel	55	45	0,1/0,15/0,2/0,25/0,3/0,5/1/1,2/1,5/2
K1151.4860* **	steel	60	48	0,1/0,15/0,2/0,25/0,3/0,5/1/1,2/1,5/2
K1151.5062* **	steel	62	50	0,1/0,15/0,2/0,25/0,3/0,5/1/1,2/1,5/2

Clamping force intensifiers





Material:
Bearing housing steel.

Version:
Black oxidised.

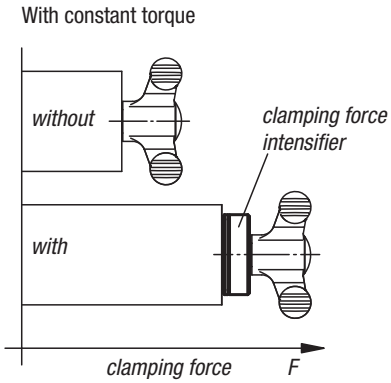
Sample order:
K0584.06

Note:
As a rule, the clamping force intensifier is used together with tightening or clamping elements. The integrated axial needle roller thrust bearing unit can achieve ca. twice the clamping force by the same lever length.

Advantages:
The component surface is protected by the stationary lower ring.
The higher preload force causes a lower tendency for material relaxation in the thread.

Clamping levers, wing and star grips, knurled knobs or hexagonal and socket head screws etc. can be used as tightening or clamping elements.





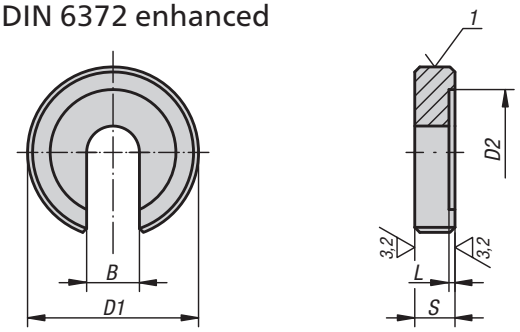
KIPP Clamping force intensifiers

Order No.	B	D	D1
K0584.06	8	6	24
K0584.08	8	8	25
K0584.10	8	10	30
K0584.12	8	12	35

K0730

C-washers

DIN 6372 enhanced



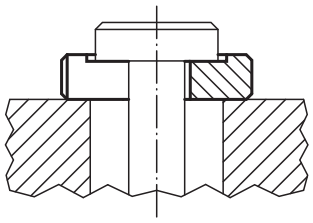


Material:
Carbon steel.

Version:
Tempered and black oxidised.

Sample order:
K0730.12

Drawing reference:
1) cross knurl



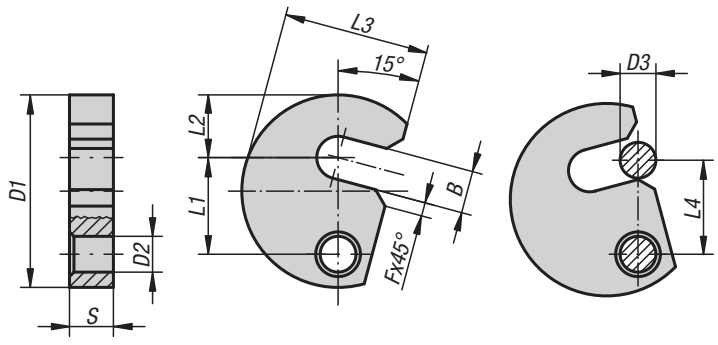
KIPP C-washers for fixtures DIN 6372 enhanced

Order No.	B	D1	D2	L	S
K0730.05	5,25	17	12	0,75	5
K0730.06	6,4	22	16	0,8	6
K0730.08	8,4	28	21	1	7
K0730.10	10,5	34	25	1,2	8
K0730.12	13	40	30	1,8	9
K0730.14	14,5	48	33	1,8	12
K0730.16	17	56	37	1,8	12
K0730.20	21	64	45	2	14
K0730.24	25	75	52	2	16
K0730.30	31	90	65	2	18
K0730.36	37	100	75	2,5	20

K0703

C-washers captive

DIN 6371



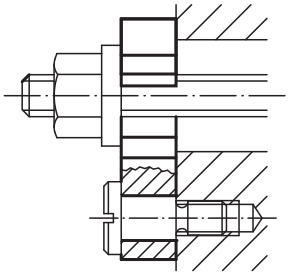


Material:
Carbon steel 1.0760.

Version:
Nitrided and black oxidised.

Sample order:
K0703.12

Note:
K0703.14 is not standard. Suitable shoulder screws see K0704.



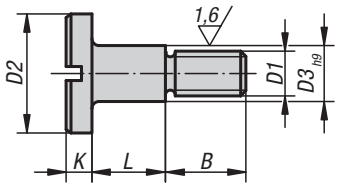
KIPP C-washers captive DIN 6371

Order No.	B	D1	D2	D3	F	L1	L2	L3	L4	S
K0703.06	7,5	38	9	6	3	19,6	11	29	19	9,8
K0703.08	9,5	43	9	8	3	21,6	14	32,5	21	9,8
K0703.10	11,5	48	9	10	3	23,6	17	36,5	23	9,8
K0703.12	13,5	61	11	12	3	29,6	22	45	29	11,8
K0703.14	15,5	65	11	14	3	31,6	23	49	31	11,8
K0703.16	17,5	68	11	16	3	33,6	25	50	33	11,8
K0703.20	21,5	74	11	20	4	36,6	28	55	36	11,8

Shoulder screws with slotted flat head

DIN 923



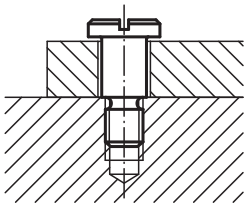


Material:
Steel.

Version:
Black oxidised, grade 5.8.

Sample order:
K0704.08

Note:
For use with captive C-washers K0703.



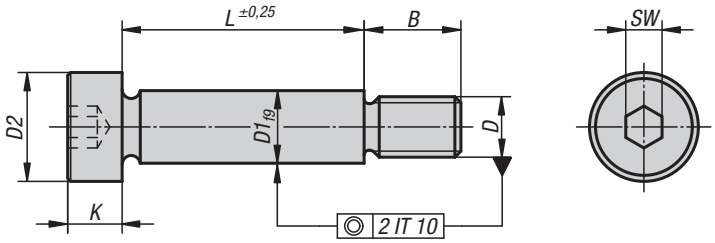
KIPP Shoulder screws with slotted flat head DIN 923

Order No.	D1	D2	D3	L	B	K
K0704.06	M6	13	8	10 +0,15/+0,07	9	3,1
K0704.08	M8	16	10	12 +0,2/+0,1	11	3,8
K0704.10	M10	20	13	16 +0,2/+0,1	13,5	4,6

Shoulder screws

similar to DIN ISO 7379





Material:
Steel or stainless steel (A 2)

Version:
Grade 12.9. Shaft OD ground and bright.
Bright stainless steel or black oxidised steel.

Sample order:
K0705.06X20 (include length L)

Note:
Hexagon socket head shoulder screws are precision construction elements for many applications. As they can simplify complicated constructions, they are frequently chosen as the most cost-effective solution. Shoulder screws provide the decisive rationalising effect required today.

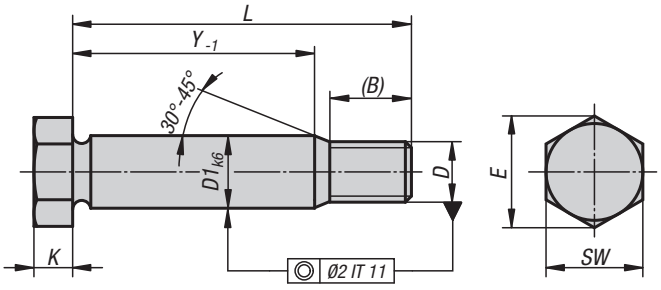
KIPP Shoulder screws similar to DIN ISO 7379

Order No.	Main material	D1	D	D2	B	K	SW	L
K0705.04X	steel	4	M3	7	7	3	2	6/8/10/12/16/20
K0705.05X	steel	5	M4	9	8	4	2,5	8/10/16/20/30/40
K0705.06X	steel	6	M5	10	9,5	4,5	3	16/20/25/30/40/50/60
K0705.08X	steel	8	M6	13	11	5,5	4	16/20/25/30/40/50/60
K0705.10X	steel	10	M8	16	13	7	5	16/20/25/30/40/50/60/70/80
K0705.12X	steel	12	M10	18	16	9	6	16/20/25/30/40/50/60/70/80/90/100
K0705.16X	steel	16	M12	24	18	11	8	30/40/50/60/70/80/90/100/120
K0705.20X	steel	20	M16	30	22	14	10	30/40/50/60/70/80/90/100/120
K0705.104X	stainless steel	4	M3	7	7	3	2	6/8/10/16/20
K0705.105X	stainless steel	5	M4	9	8	4	2,5	8/10/16/20/30/40
K0705.106X	stainless steel	6	M5	10	9,5	4,5	3	16/20/25/30/40/50/60
K0705.108X	stainless steel	8	M6	13	11	5,5	4	16/20/25/30/40/50/60
K0705.110X	stainless steel	10	M8	16	13	7	5	16/20/25/30/40/50/60/70/80
K0705.112X	stainless steel	12	M10	18	16	9	6	16/20/25/30/40/50/60/70/80/90/100
K0705.116X	stainless steel	16	M12	24	18	11	8	30/40/50/60/70/80/90/100/120
K0705.120X	stainless steel	20	M16	30	22	14	10	30/40/50/60/70/80/90/100/120

Shoulder screws

with hexagon head, DIN 609





Material:
Steel.

Version:
Grade 8.8, black oxidised.
Shaft OD ground.

Sample order:
K0706.09X40 (include length L)

Note:
Shoulder screws are used if the screw connection is subjected to transverse forces or if workpieces must be positioned relative to each other.

KIPP Shoulder screws with hexagon head, DIN 609

Order No.	D1	D	(B) reference dimension	E	K	SW	Y	L
K0706.09X25	9	M8	14,5	14,38	5,3	13	8	25
K0706.09X30	9	M8	14,5	14,38	5,3	13	13	30
K0706.09X35	9	M8	14,5	14,38	5,3	13	18	35
K0706.09X40	9	M8	14,5	14,38	5,3	13	23	40
K0706.09X45	9	M8	14,5	14,38	5,3	13	28	45
K0706.09X50	9	M8	14,5	14,38	5,3	13	33	50
K0706.09X60	9	M8	16,5	14,38	5,3	13	41	60
K0706.11X30	11	M10	17,5	17,77	6,4	17	10	30
K0706.11X35	11	M10	17,5	17,77	6,4	17	15	35
K0706.11X40	11	M10	17,5	17,77	6,4	17	20	40
K0706.11X45	11	M10	17,5	17,77	6,4	17	25	45
K0706.11X50	11	M10	17,5	17,77	6,4	17	30	50
K0706.11X60	11	M10	19,5	17,77	6,4	17	38	60
K0706.11X70	11	M10	19,5	17,77	6,4	17	48	70
K0706.11X80	11	M10	19,5	17,77	6,4	17	58	80
K0706.11X90	11	M10	19,5	17,77	6,4	17	68	90
K0706.11X100	11	M10	19,5	17,77	6,4	17	78	100

Shoulder screws

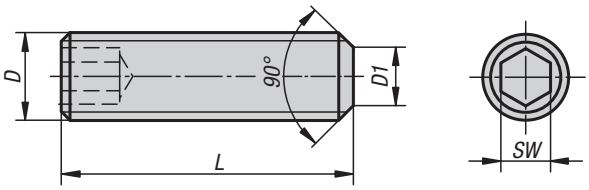
with hexagon head, DIN 609

KIPP Shoulder screws with hexagon head, DIN 609

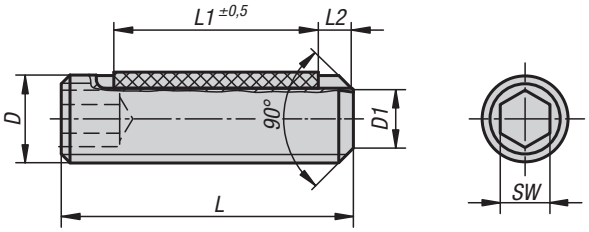
Order No.	D1	D	(B) reference dimension	E	K	SW	Y	L
K0706.13X35	13	M12	20,5	19,85	7,5	19	11,5	35
K0706.13X40	13	M12	20,5	19,85	7,5	19	16,5	40
K0706.13X45	13	M12	20,5	19,85	7,5	19	21,5	45
K0706.13X50	13	M12	20,5	19,85	7,5	19	26,5	50
K0706.13X60	13	M12	22,5	19,85	7,5	19	34,5	60
K0706.13X70	13	M12	22,5	19,85	7,5	19	44,5	70
K0706.13X80	13	M12	22,5	19,85	7,5	19	54,5	80
K0706.13X90	13	M12	22,5	19,85	7,5	19	64,5	90
K0706.13X100	13	M12	22,5	19,85	7,5	19	74,5	100
K0706.17X40	17	M16	25	26,17	10	24	11,5	40
K0706.17X45	17	M16	25	26,17	10	24	16,5	45
K0706.17X50	17	M16	25	26,17	10	24	21,5	50
K0706.17X60	17	M16	27	26,17	10	24	29,5	60
K0706.17X70	17	M16	27	26,17	10	24	39,5	70
K0706.17X80	17	M16	27	26,17	10	24	49,5	80
K0706.17X90	17	M16	27	26,17	10	24	59,5	90
K0706.17X100	17	M16	27	26,17	10	24	69,5	100
K0706.21X50	21	M20	28,5	32,95	12,5	30	17,5	50
K0706.21X60	21	M20	30,5	32,95	12,5	30	25,5	60
K0706.21X70	21	M20	30,5	32,95	12,5	30	35,5	70
K0706.21X80	21	M20	30,5	32,95	12,5	30	45,5	80
K0706.21X90	21	M20	30,5	32,95	12,5	30	55,5	90
K0706.21X100	21	M20	30,5	32,95	12,5	30	65,5	100
K0706.21X120	21	M20	30,5	32,95	12,5	30	85,5	120
K0706.25X60	25	M24	36,5	39,35	15	36	19	60
K0706.25X70	25	M24	36,5	39,35	15	36	29	70
K0706.25X80	25	M24	36,5	39,35	15	36	39	80
K0706.25X90	25	M24	36,5	39,35	15	36	49	90
K0706.25X100	25	M24	36,5	39,35	15	36	59	100
K0706.25X120	25	M24	36,5	39,35	15	36	79	120

Grub screws with flat point

hexagon socket DIN 913



LONG-LOK





Material:
Steel or stainless steel (A 2).

LONG-LOK thread lock nylon.

Version:
Steel class 45 H, black.
Stainless steel A 2-70, bright.

Sample order:
K0707.110X20 (include length L)

Drawing reference:
L2 = approx. 2x thread pitch

KIPP Grub screws with flat point, hexagon socket DIN 913

Order No.	Main material	D	L	D1	SW
K0707.03X	Steel	M3	5/6/8/10/12/16/20	2	1,5
K0707.04X	Steel	M4	5/6/8/10/12/16/20/25	2,5	2
K0707.05X	Steel	M5	5/6/8/10/12/16/20/25/30	3,5	2,5
K0707.06X	Steel	M6	6/8/10/12/16/20/25/30/35/40/45/50/60	4	3
K0707.08X	Steel	M8	8/10/12/16/20/25/30/35/40/45/50/60/70/80	5,5	4
K0707.10X	Steel	M10	10/12/16/20/25/30/35/40/45/50/60/70/80/90/100	7	5
K0707.103X	Stainless steel	M3	5/6/8/10/12	2	1,5
K0707.104X	Stainless steel	M4	5/6/8/10/12/16/20	2,5	2
K0707.105X	Stainless steel	M5	5/6/8/10/12/16/20/25/30	3,5	2,5
K0707.106X	Stainless steel	M6	6/8/10/12/16/20/25/30/35/40	4	3
K0707.108X	Stainless steel	M8	8/10/12/16/20/25/30/35/40/45/50	5,5	4
K0707.110X	Stainless steel	M10	10/12/16/20/25/30/35/40/45/50	7	5

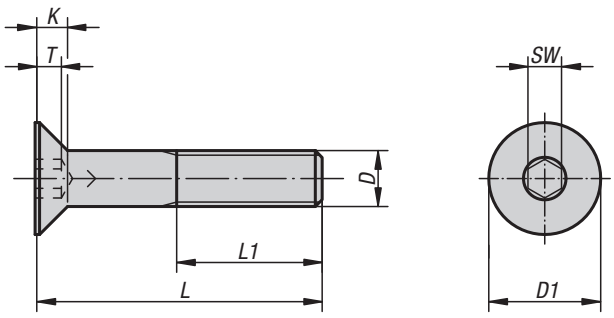
KIPP Grub screws with flat point, hexagon socket DIN 913, LONG-LOK secured

Order No.	Version	Main material	D	L	L1	D1	SW
K0707.203X	Long-Lok	Steel	M3	5/6/8/10/12	2/3/4/4/4	2	1,5
K0707.204X	Long-Lok	Steel	M4	5/6/8/10/12/16	2/2,5/3,5/5/5/5	2,5	2
K0707.205X	Long-Lok	Steel	M5	5/6/8/10/12/16	2/3/3,5/3,5/5/6	3,5	2,5
K0707.206X	Long-Lok	Steel	M6	6/8/10/12/16/20	2,5/3/3,5/5/7/7	4	3
K0707.208X	Long-Lok	Steel	M8	8/10/12/16/20	3/3,5/5/8/8	5,5	4
K0707.210X	Long-Lok	Steel	M10	10/12/16/20	5/5/9/9	7	5
K0707.303X	Long-Lok	Stainless steel	M3	5/6/8/10/12	2/3/4/4/4	2	1,5
K0707.304X	Long-Lok	Stainless steel	M4	5/6/8/10/12/16	2/2,5/3,5/5/5/5	2,5	2
K0707.305X	Long-Lok	Stainless steel	M5	5/6/8/10/12/16	2/3/3,5/3,5/5/6	3,5	2,5
K0707.306X	Long-Lok	Stainless steel	M6	6/8/10/12/16/20	2,5/3/3,5/5/7/7	4	3
K0707.308X	Long-Lok	Stainless steel	M8	8/10/12/16/20	3/3,5/5/8/8	5,5	4
K0707.310X	Long-Lok	Stainless steel	M10	10/12/16/20	5/5/9/9	7	5

Screws with countersunk head

hexagon socket DIN EN ISO 10642





Material:
Steel or stainless steel (A 2)

Version:
Steel grade 8.8, black or galvanised.
Steel grade 10.9, black.
Stainless steel A 2-70, bright.

Sample order:
K0708.106X20 (include length L)

KIPP Screws with countersunk head, hexagon socket DIN 7991

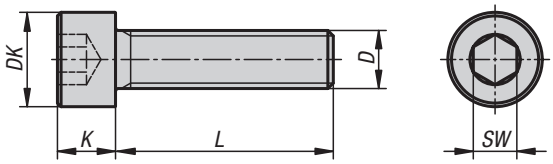
Order No. steel Grade 8.8	Order No. steel Grade 10.9	Surface	D	L	L1 min.	K	T	D1	SW
K0708.04X	**K0708.304X**	-	M4	10/12/16/20/25	14	2,3	1,8	8	2,5
K0708.05X	**K0708.305X**	-	M5	10/12/16/20/25/30	16	2,8	2,3	10	3
K0708.06X	**K0708.306X**	-	M6	10/12/16/20/25/30/35/40/45/50/60	18	3,3	2,5	12	4
K0708.08X	**K0708.308X**	-	M8	16/20/25/30/35/40/45/50/60	22	4,4	3,5	16	5
K0708.10X	**K0708.310X**	-	M10	16/20/25/30/35/40/45/50/60/70	26	5,5	4,4	20	6
K0708.12X	**K0708.312X**	-	M12	20/25/30/35/40/45/50/60/70/80	30	6,5	4,6	24	8
K0708.16X	**K0708.316X**	-	M16	30/35/40/45/50/60/70/80	38	7,5	5,3	30	10
K0708.404X	-	Galvanized	M4	10/12/16/20/25	14	2,3	1,8	8	2,5
K0708.405X	-	Galvanized	M5	10/12/16/20/25/30	16	2,8	2,3	10	3
K0708.406X	-	Galvanized	M6	10/12/16/20/25/30/35/40/45/50/60	18	3,3	2,5	12	4
K0708.408X	-	Galvanized	M8	16/20/25/30/35/40/45/50/60	22	4,4	3,5	16	5
K0708.410X	-	Galvanized	M10	16/20/25/30/35/40/45/50/60/70	26	5,5	4,4	20	6
K0708.412X	-	Galvanized	M12	20/25/30/35/40/45/50/60/70/80	30	6,5	4,6	24	8
K0708.416X	-	Galvanized	M16	30/35/40/45/50/60/70/80	38	7,5	5,3	30	10

Order No.	Main material	D	L	L1 min.	K	T	D1	SW
K0708.104X	stainless steel	M4	10/12/16/20/25	14	2,3	1,8	8	2,5
K0708.105X	stainless steel	M5	10/12/16/20/25/30	16	2,8	2,3	10	3
K0708.106X	stainless steel	M6	10/12/16/20/25/30/35/40/45/50/60	18	3,3	2,5	12	4
K0708.108X	stainless steel	M8	16/20/25/30/35/40/45/50/60	22	4,4	3,5	16	5
K0708.110X	stainless steel	M10	16/20/25/30/35/40/45/50/60/70	26	5,5	4,4	20	6
K0708.112X	stainless steel	M12	20/25/30/35/40/45/50/60/70/80	30	6,5	4,6	24	8
K0708.116X	stainless steel	M16	30/35/40/45/50/60/70/80	38	7,5	5,3	30	10

Socket head screws

full thread, DIN 912 / DIN EN ISO 4762





Material:
Steel.

Version:
Grade 8.8, black or galvanised.

Sample order:
K1159.05X40 (include length L)

KIPP Socket head screws full thread, DIN 912 / DIN EN ISO 4762

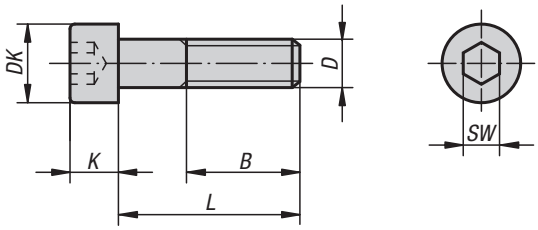
Order No.	Grade	Surface	D	L	DK	K	SW
K1159.05X	8.8	-	M5	40/50/60/80	8,5	5	4
K1159.06X	8.8	-	M6	40/50/60/70/90/100	10	6	5
K1159.08X	8.8	-	M8	50/60/70/80/90	13	8	6
K1159.10X	8.8	-	M10	50/60/70/80/90/100	16	10	8
K1159.12X	8.8	-	M12	80/90/100	18	12	10
K1159.405X	8.8	Galvanized	M5	40/70/80	8,5	5	4
K1159.406X	8.8	Galvanized	M6	40/50/60/70/80/90/100	10	6	5
K1159.408X	8.8	Galvanized	M8	50/60/70/80/90/100	13	8	6
K1159.410X	8.8	Galvanized	M10	50/60/70/80/90/100	16	10	8
K1159.412X	8.8	Galvanized	M12	70/80/90/100	18	12	10

Notes

Socket head screws

DIN 912 / DIN EN ISO 4762, steel or stainless steel

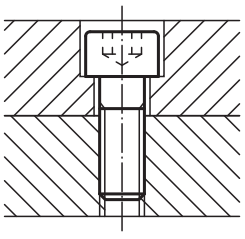




Material:
Steel or stainless steel (A 2)

Version:
Steel grade 8.8, black or galvanised.
Steel grade 10.9, black or galvanised.
Stainless steel A 2-70, bright.

Sample order:
K0869.08X40 (include length L)



KIPP Socket head screws DIN 912 / EN ISO 4762, steel or stainless steel

Order No. Grade 8.8	Order No. Grade 8.8 Galvanized	D	L	B	DK	K	SW
K0869.04X	K0869.404X	M4	10/12/16/18/20/25	20	7	4	3
K0869.05X	K0869.405X	M5	10/12/16/18/20/25/30/40	22	8,5	5	4
K0869.06X	K0869.406X	M6	10/12/16/18/20/25/30/35/40/45/50/55/60	24	10	6	5
K0869.08X	K0869.408X	M8	16/18/20/25/30/35/40/45/50/60/70/80	28	13	8	6
K0869.10X	K0869.410X	M10	16/18/20/25/30/35/40/45/50/60/70/80/90/100	32	16	10	8
K0869.12X	K0869.412X	M12	20/25/30/35/40/45/50/60/70/80/90/100/110/120	36	18	12	10
K0869.14X	K0869.414X	M14	50/80/120	40	21	14	12
K0869.16X	K0869.416X	M16	30/35/40/45/50/60/70/80/90/100/110/120	44	24	16	14
K0869.20X	K0869.420X	M20	40/45/50/60/70/80/90/100/110/120	52	30	20	17

Socket head screws

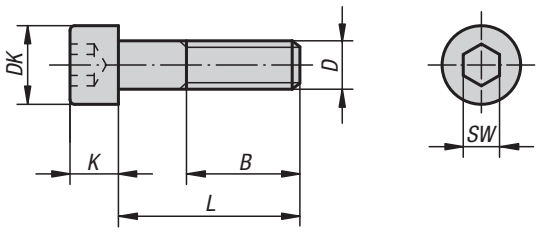
DIN 912 / DIN EN ISO 4762, steel or stainless steel

Order No.	Grade	Surface	D	L	B	DK	K	SW
K0869.304X	10.9	-	M4	10/12/16/18/20/25	20	7	4	3
K0869.305X	10.9	-	M5	10/12/16/18/20/25/30/40	22	8,5	5	4
K0869.306X	10.9	-	M6	10/12/16/18/20/25/30/35/40/55/45/50/60	24	10	6	5
K0869.308X	10.9	-	M8	16/18/20/25/30/35/40/45/50/60/70/80	28	13	8	6
K0869.310X	10.9	-	M10	16/18/20/25/30/35/40/45/50/60/70/80/90/100	32	16	10	8
K0869.312X	10.9	-	M12	20/25/30/35/40/45/50/60/70/80/90/100/110/120	36	18	12	10
K0869.314X	10.9	-	M14	50/80/120	40	21	14	12
K0869.316X	10.9	-	M16	30/35/40/45/50/60/70/80/90/100/110/120	44	24	16	14
K0869.320X	10.9	-	M20	40/45/50/60/70/80/90/100/110/120	52	30	20	17
K0869.504X	10.9	Galvanized	M4	10/12/16/18/20/25	20	7	4	3
K0869.505X	10.9	Galvanized	M5	10/12/16/18/20/25/30/40	22	8,5	5	4
K0869.506X	10.9	Galvanized	M6	10/12/16/18/20/25/30/35/40/45/50/55/60	24	10	6	5
K0869.508X	10.9	Galvanized	M8	16/20/25/30/35/40/45/50/60/70/80	28	13	8	6
K0869.510X	10.9	Galvanized	M10	16/18/20/25/30/35/40/45/50/60/70/80/90/100	32	16	10	8
K0869.512X	10.9	Galvanized	M12	20/25/30/35/40/45/50/60/70/80/90/100/110/120	36	18	12	10
K0869.514X	10.9	Galvanized	M14	50/80/120	40	21	14	12
K0869.516X	10.9	Galvanized	M16	30/35/40/45/50/60/70/80/90/100/110/120	44	24	16	14
K0869.520X	10.9	Galvanized	M20	40/45/50/60/70/80/90/100/110/120	52	30	20	17

Order No.	Main material	D	L	B	DK	K	SW
K0869.104X	stainless steel	M4	10/12/16/18/20/25	20	7	4	3
K0869.105X	stainless steel	M5	10/12/16/18/20/25/30/40	22	8,5	5	4
K0869.106X	stainless steel	M6	10/12/16/18/20/25/30/35/40/45/50/60/55	24	10	6	5
K0869.108X	stainless steel	M8	16/18/20/25/30/35/40/45/50/60/70/80	28	13	8	6
K0869.110X	stainless steel	M10	18/16/20/25/30/35/40/45/50/60/70/80/90/100	32	16	10	8
K0869.112X	stainless steel	M12	20/25/30/35/40/45/50/60/70/80/90/100/110/120	36	18	12	10

Socket head screws

DIN 912/DIN EN ISO 4762

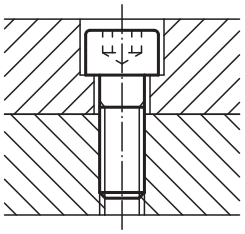




Material:
Steel.

Version:
Steel grade 12.9, black.

Sample order:
K0869.206X40 (include length L)



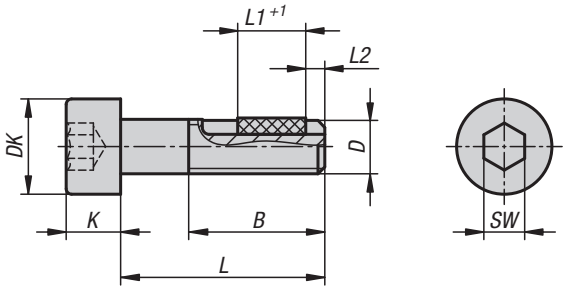
KIPP Socket head screws DIN 912/DIN EN ISO 4762

Order No.	Grade	D	L	B	DK	K	SW
K0869.206X	12.9	M6	18/20/25/30/35/40/45/50/55/60/65/70/80/90/100	24	10	6	5
K0869.208X	12.9	M8	20/25/30/35/40/45/50/55/60/65/70/80/90/100/120	28	13	8	6
K0869.210X	12.9	M10	30/35/40/45/50/55/60/65/70/75/80/90/100/110/120/130/140	32	16	10	8
K0869.212X	12.9	M12	30/35/40/45/50/55/60/65/70/75/80/90/100/110/120/130/140	36	18	12	10
K0869.216X	12.9	M16	35/40/45/50/55/60/65/70/75/80/90/100/110/120/130/140/150/160/170/180/200	44	24	16	14
K0869.218X	12.9	M18	35/40/45/50/55/60/65/70/75/80/90/100/110/120/130/140/150/160/170/180/200	48	27	18	14
K0869.220X	12.9	M20	40/45/50/55/60/65/70/75/80/90/100/110/120/130/140/150/160/170/180/200	52	30	20	17

Socket head screws

DIN 912 / EN ISO 4762, LONG-LOK secured





Material:
Steel or stainless steel (A 2).

LONG-LOK thread lock nylon.

Version:
Steel grade 8.8, black.
Stainless steel A 2-70, bright.

Sample order:
K0869.806X20 (include length L)

Drawing reference:
L2 = approx. 2x thread pitch

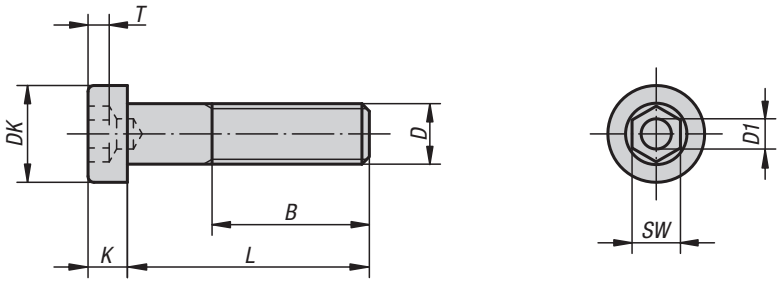
KIPP Socket head screws DIN 912 / DIN EN ISO 4762, LONG-LOK secured

Order No. steel	Order No. stainless steel	D	L	B	DK	K	L1	SW	Tightening torque approx. Nm	Loosening torque approx. Nm
K0869.804X	**K0869.904X**	M4	10/12/16/20/25	-	7	4	5/5/6/7/7	3	0,15	0,22
K0869.805X	**K0869.905X**	M5	10/12/16/20/25/30/40	-/22	8,5	5	5/6/7/7/8/8/8	4	0,25	0,1
K0869.806X	**K0869.906X**	M6	10/12/16/20/25/30/35/40/45/50	-/24	10	6	5/6/7/7/8/8/8/8/8/8	5	0,45	0,25
K0869.808X	**K0869.908X**	M8	16/20/25/30/35/40/45	-/28	13	8	7/8/8/8/10/10/10	6	0,8	0,4
K0869.810X	**K0869.910X**	M10	25/30/40/50	-/32	16	10	10/10/12/12	8	1,7	0,9
K0869.812X	**K0869.912X**	M12	30/40/50	-	18	12	10/12/12	10	1,8	0,9

Socket head screws with low head

DIN 6912





Material:
Steel or stainless steel (A 2)

Version:
Steel grade 8.8, black or galvanised.
Steel grade 10.9, black.
Stainless steel A 2-70, bright.

Sample order:
K1160.110X20 (include length L)

KIPP Socket head screws with low head DIN 6912, stainless steel

Order No.	Main material	D	DK	K	D1	SW	T
K1160.104X	stainless steel	M4	7	2,8	2	3	1,48
K1160.105X	stainless steel	M5	8,5	3,5	2,5	4	1,88
K1160.106X	stainless steel	M6	10	4	3	5	2,38
K1160.108X	stainless steel	M8	13	5	4	6	2,88
K1160.110X	stainless steel	M10	16	6,5	5	8	3,35
K1160.112X	stainless steel	M12	18	7,5	6	10	3,85

Order No.	Main material	D	L	B
K1160.104X	stainless steel	M4	10/12/16/20/25	6,5/8,5/12,5/14/14
K1160.105X	stainless steel	M5	10/12/16/20/25/30	5,8/7,8/11,8/15,8/16/16
K1160.106X	stainless steel	M6	10/12/16/20/25/30/35/40/45/50/60	4,5/6,5/10,5/14,5/19,5/18/18/18/18/18/18
K1160.108X	stainless steel	M8	10/12/16/20/25/30/35/40/45/50/60/70	6/5/9/22/22/22/22/22/22/22/22/22
K1160.110X	stainless steel	M10	16/20/25/30/35/40/45/50/60/70	8/12/17/22/27/26/26/26/26/26
K1160.112X	stainless steel	M12	20/25/30/35/40/45/50/60/70	10,5/15,5/30/25,5/30,5/30/30/30/30

Socket head screws with low head

DIN 6912

KIPP Socket head screws with low head DIN 6912, steel

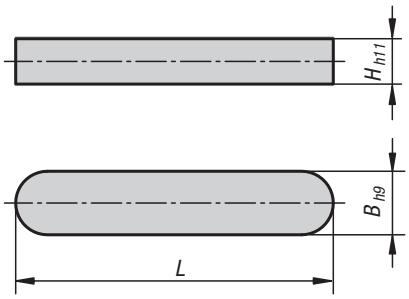
Order No. Grade 8.8	Order No. Grade 8.8 Galvanized	Order No. Grade 10.9	D	DK	K	D1	SW	T
K1160.04X	**K1160.404X**	-	M4	7	2,8	2	3	1,48
K1160.05X	**K1160.405X**	-	M5	8,5	3,5	2,5	4	1,88
K1160.06X	**K1160.406X**	**K1160.306X**	M6	10	4	3	5	2,38
K1160.08X	**K1160.408X**	**K1160.308X**	M8	13	5	4	6	2,88
K1160.10X	**K1160.410X**	**K1160.310X**	M10	16	6,5	5	8	3,35
K1160.12X	**K1160.412X**	**K1160.312X**	M12	18	7,5	6	10	3,85
K1160.16X	**K1160.416X**	**K1160.316X**	M16	24	10	8	14	5,35
K1160.20X	**K1160.420X**	**K1160.320X**	M20	30	12	10	17	6,32

Order No.	Main material	Surface	Grade	D	L	B
K1160.04X	steel	-	8.8	M4	10/12/16/20/25	6,5/8,5/12,5/14/14
K1160.05X	steel	-	8.8	M5	10/12/16/20/25/30	5,8/7,8/11,8/15,8/16/16
K1160.06X	steel	-	8.8	M6	10/12/16/20/25/30/35/40/45/50/60	4,5/6,5/10,5/14,5/19,5/18/18/18/18/18/18
K1160.08X	steel	-	8.8	M8	10/12/16/20/25/30/35/40/45/50/60/70/80	4/5/9/13/22/22/22/22/22/22/22/22
K1160.10X	steel	-	8.8	M10	20/25/30/35/40/45/50/60/70/80/90/100	12/17/22/27/26/26/26/26/26/26/26
K1160.12X	steel	-	8.8	M12	20/25/30/35/40/45/50/60/70/80/90/100/110/120	10,5/15,5/20,5/25,5/30,5/30/30/30/30/30/30/30/30
K1160.16X	steel	-	8.8	M16	30/35/40/45/50/60/70/80/90/100/110/120	19/24/38/38/38/38/38/38/38/38/38
K1160.20X	steel	-	8.8	M20	40/45/50/60/70/80/90/100/110/120	26/26/36/46/46/46/46/46/46/46
K1160.404X	steel	Galvanized	8.8	M4	10/12/16/20/25	6,5/8,5/12,5/14/14
K1160.405X	steel	Galvanized	8.8	M5	10/12/16/20/25/30	5,8/7,8/11,8/15,8/16/16
K1160.406X	steel	Galvanized	8.8	M6	10/12/16/20/25/30/35/40/45/50/60	4,5/6,5/10,5/14,5/19,5/18/18/18/18/18/18
K1160.408X	steel	Galvanized	8.8	M8	10/12/16/20/25/30/35/40/45/50/60/70/80	4/5/9/13/22/22/22/22/22/22/22/22
K1160.410X	steel	Galvanized	8.8	M10	20/25/30/35/40/45/50/60/70/80/90/100	12/17/22/27/26/26/26/26/26/26/26
K1160.412X	steel	Galvanized	8.8	M12	20/25/30/35/40/45/50/60/70/80/90/100/110/120	10,5/15,5/20,5/25,5/30,5/30/30/30/30/30/30/30/30
K1160.416X	steel	Galvanized	8.8	M16	30/35/40/45/50/60/70/80/90/100/110/120	19/24/38/38/38/38/38/38/38/38/38
K1160.420X	steel	Galvanized	8.8	M20	40/45/50/60/70/80/90/100/110/120	26/26/36/46/46/46/46/46/46/46
K1160.306X	steel	-	10.9	M6	10/12/16/20/25/30/35/40	4,5/6,5/10,5/14,5/19,5/18/18/18
K1160.308X	steel	-	10.9	M8	16/20/25/30/35/40/45/50/60	9/13/22/22/22/22/22/22/22
K1160.310X	steel	-	10.9	M10	20/25/30/35/40/45/50/60	12/17/22/27/26/26/26/26
K1160.312X	steel	-	10.9	M12	25/30/35/40/45/50/60	15,5/20,5/25,5/30,5/30/30/30
K1160.316X	steel	-	10.9	M16	30/35/40/45/50/60/70/80	19/24/38/38/38/38/38/38
K1160.320X	steel	-	10.9	M20	40/50/60/70	26/36/46/46

Parallel keys

DIN 6885 A



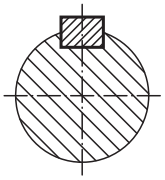


Material:
Steel 1.1192 or stainless steel 1.4571

Version:
Bright.

Sample order:
K0696.04X12 (include length L)

Application example:

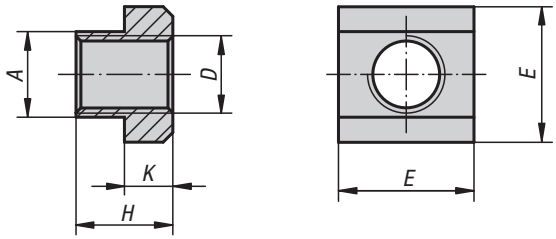


KIPP Parallel keys DIN 6885 A

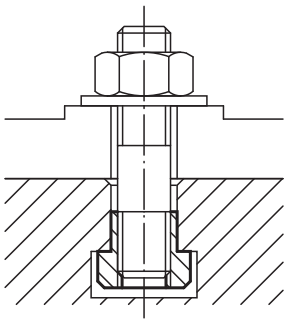
Order No.	Main material	B	H	L = length
K0696.03X	steel	3	3	8/10/12/14/16/18/20/22/25/28
K0696.04X	steel	4	4	8/10/12/14/16/18/20/22/25/28
K0696.05X	steel	5	5	12/14/16/18/20/22/25/28/32/36/40
K0696.06X	steel	6	6	12/14/16/18/20/22/25/28/32/36/40/45
K0696.08X	steel	8	7	14/16/18/20/22/25/28/32/36/40/45/50/70
K0696.10X	steel	10	8	22/25/28/32/36/40/45/50/56/70/80
K0696.12X	steel	12	8	25/28/32/36/40/45/50/56/70/80
K0696.14X	steel	14	9	25/28/32/36/40/45/50/56/70/80
K0696.16X	steel	16	10	50/56/63/70/80/90/100
K0696.103X	stainless steel	3	3	10/12/16/20
K0696.104X	stainless steel	4	4	10/12/14/16/18/20/22
K0696.105X	stainless steel	5	5	12/14/16/18/20/22/25/28/36/40
K0696.106X	stainless steel	6	6	12/14/16/18/20/22/25/28/32/36/40
K0696.108X	stainless steel	8	7	16/18/20/22/25/28/32/36/40/45/50/70
K0696.110X	stainless steel	10	8	22/25/28/32/36/40/45/50/56/70/80
K0696.112X	stainless steel	12	8	28/32/36/40/45/50/56/70/80
K0696.114X	stainless steel	14	9	32/40/45/50/56/80/70
K0696.116X	stainless steel	16	10	50/63/70/80/90/100

Nuts for T-slots

DIN 508 enhanced







Material:
Carbon steel grade 10, EN AW-7075 or stainless steel 1.4305.

Version:
Steel black.
Aluminium and stainless steel bright.

Sample order:
K0377.20

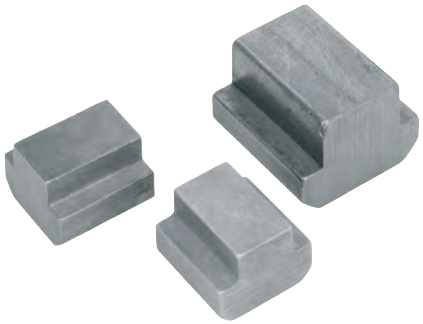
Note:
Nuts for T-slots in aluminium have threaded steel inserts.

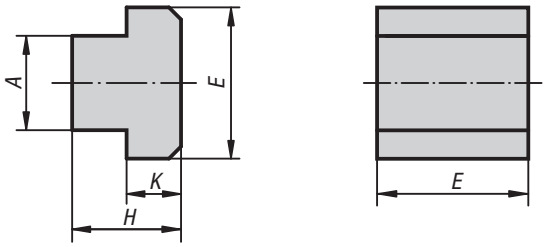
KIPP Nuts for T-slots to DIN 508 enhanced

Order No. Carbon steel	Order No. Aluminium	Order No. Stainless steel	Nominal slot size	D	A	E	H	K
K0377.05	K0377.204	-	6	M5/M4	5,6	10	8	4
K0377.06	K0377.206	K0377.806	8	M6	7,6	13	10	6
K0377.061	K0377.2061	-	10	M6	9,6	15	12	6
K0377.08	-	K0377.808	10	M8	9,6	15	12	6
K0377.081	K0377.208	-	12	M8	11,5	18	14	7
K0377.10	-	K0377.810	12	M10	11,5	18	14	7
K0377.082	-	-	14	M8	13,5	22	16	8
K0377.101	K0377.210	-	14	M10	13,5	22	16	8
K0377.12	-	K0377.812	14	M12	13,5	22	16	8
K0377.121	-	-	16	M12	15,6	25	18	9
K0377.14	-	K0377.814	16	M14	15,6	25	18	9
K0377.122	-	-	18	M12	17,5	28	20	10
K0377.141	-	-	18	M14	17,5	28	20	10
K0377.16	-	K0377.816	18	M16	17,5	28	20	10
K0377.123	-	-	20	M12	19,6	32	24	12
K0377.161	-	-	20	M16	19,6	32	24	12
K0377.18	-	-	20	M18	19,6	32	24	12
K0377.124	K0377.216	-	22	M12/M16	21,6	35	28	14
K0377.181	-	-	22	M18	21,6	35	28	14
K0377.20	-	-	22	M20	21,6	35	28	14
K0377.163	-	-	24	M16	23,6	40	32	16
K0377.201	-	-	24	M20	23,6	40	32	16
K0377.22	-	-	24	M22	23,6	40	32	16
K0377.164	-	-	28	M16	27,6	44	36	18
K0377.202	-	-	28	M20	27,6	44	36	18
K0377.24	-	-	28	M24	27,6	44	36	18
K0377.27	-	-	32	M27	31,5	50	40	20
K0377.241	-	-	36	M24	35,5	54	44	22
K0377.30	-	-	36	M30	35,5	54	44	22
K0377.36	-	-	42	M36	41,5	65	52	26

Nuts for T-slots

blanks





Material:
Carbon steel or stainless steel 1.4305.

Sample order:
K0378.16

Note:
These blank nuts are used to make nuts for T-slots with all sorts of thread sizes cost-effectively.

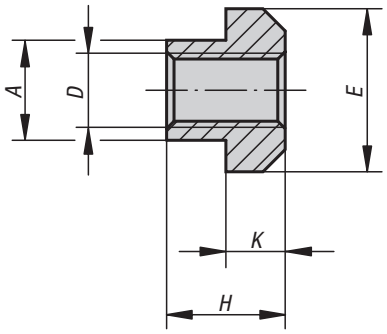
KIPP Nuts for T-slots, blanks

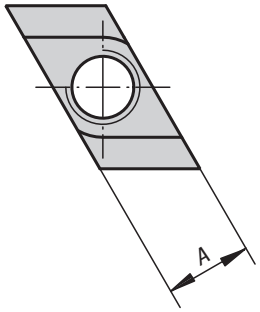
Order No. Carbon steel	Order No. Stainless steel	Nominal slot size	A	E	H	K
K0378.06	-	6	5,6	10	8	4
K0378.08	**K0378.808**	8	7,6	13	10	6
K0378.10	**K0378.810**	10	9,6	15	12	6
K0378.12	**K0378.812**	12	11,5	18	14	7
K0378.14	**K0378.814**	14	13,5	22	16	8
K0378.16	-	16	15,6	25	18	9
K0378.18	-	18	17,5	28	20	10
K0378.20	-	20	19,6	32	24	12
K0378.22	-	22	21,6	35	28	14
K0378.24	-	24	23,6	40	32	16
K0378.28	-	28	27,6	44	36	18
K0378.36	-	36	35,5	54	44	22
K0378.42	-	42	41,6	65	52	26

Nuts for T-slots

rhombic form







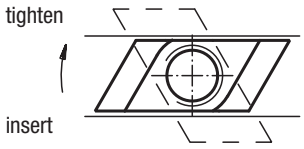
Material:
Carbon steel.

Version:
Tempered to 8 and black oxidised.

Sample order:
K0379.114

Note:
The benefit of rhombic nuts for T-slots is that they can be fitted in the slot from the top. They are particularly useful for long T-slots, or when the configuration on the machine table does not permit clamping screws or nuts for T-slots to be inserted from the side.

Application:
Insert from above then twist in the slot until it stops.



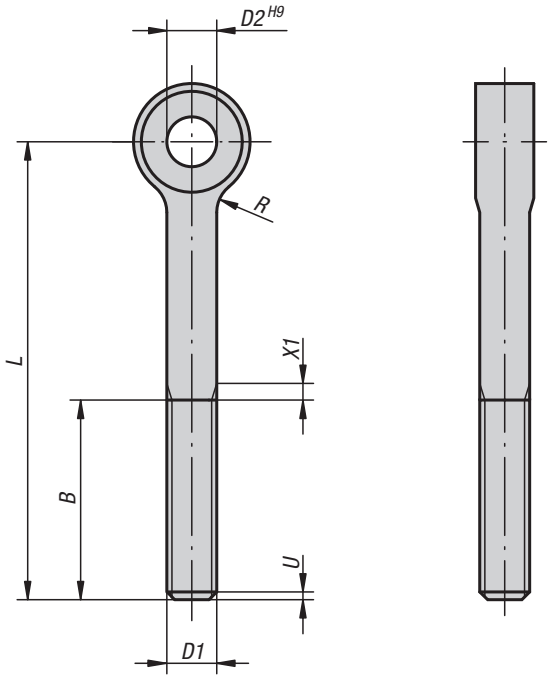
KIPP Nuts for T-slots, rhombic form

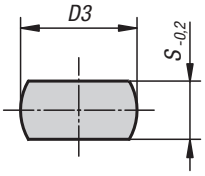
Order No.	Nominal slot size	D	A	E	H	K
K0379.105	6	M5	5,6	10	8	4
K0379.106	8	M6	7,6	13	10	6
K0379.108	10	M8	9,7	15	12	6
K0379.110	12	M10	11,7	18	14	7
K0379.210	14	M10	13,5	22	16	8
K0379.310	18	M10	17,5	28	20	10
K0379.112	14	M12	13,7	22	16	8
K0379.114	16	M14	15,7	25	18	9
K0379.116	18	M16	17,7	28	20	10
K0379.216	20	M16	19,7	32	24	12
K0379.316	22	M16	21,5	35	28	14
K0379.416	28	M16	27,5	44	36	18
K0379.118	20	M18	19,7	32	24	12
K0379.120	22	M20	21,7	35	28	14
K0379.124	28	M24	27,7	44	36	18
K0379.130	36	M30	35,6	54	44	22
K0379.136	42	M36	41,5	65	52	26

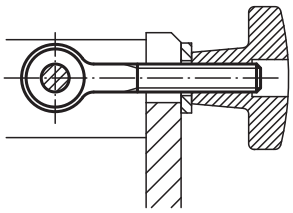
Eye bolts

DIN 444, Form B









Material:
Steel, grade 8.8 or stainless steel.

Version:
Steel black oxidised.
Stainless steel bright.

Sample order:
K0396.12100

Note:
Suitable hinge pin, see K0007.

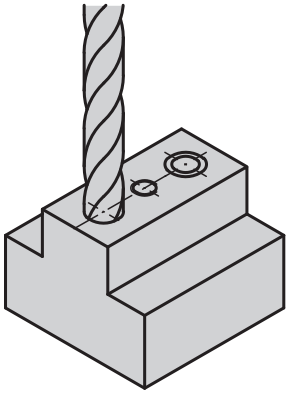
Drawing reference:
U = max. 2 P (incomplete thread)
X1 = to DIN 76 part 1

KIPP Eye bolts DIN 444

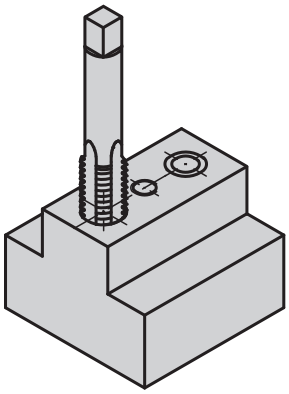
Order No. Steel	Order No. Stainless steel	D1	L	D2	D3	B	S	R
K0396.0550	K0396.10550	M5	50	5	12	16	6	2,5
K0396.0575	-	M5	75	5	12	16	6	2,5
K0396.0650	K0396.10650	M6	50	6	14	18	7	4
K0396.0675	K0396.10675	M6	75	6	14	18	7	4
K0396.0850	K0396.10850	M8	50	8	18	22	9	4
K0396.0875	K0396.10875	M8	75	8	18	22	9	4
K0396.1075	K0396.11075	M10	75	10	20	26	12	4
K0396.10100	K0396.110100	M10	100	10	20	26	12	4
K0396.1275	K0396.11275	M12	75	12	25	30	14	6
K0396.12100	K0396.112100	M12	100	12	25	30	14	6
K0396.12120	K0396.112120	M12	120	12	25	30	14	6
K0396.12130	K0396.112130	M12	130	12	25	36	14	6
K0396.1475	K0396.11475	M14	75	14	28	36	16	6
K0396.14130	K0396.114130	M14	130	14	28	36	16	6
K0396.16130	K0396.116130	M16	130	16	32	44	17	6
K0396.20140	K0396.120140	M20	140	18	40	52	22	6

Installing and removing threaded inserts

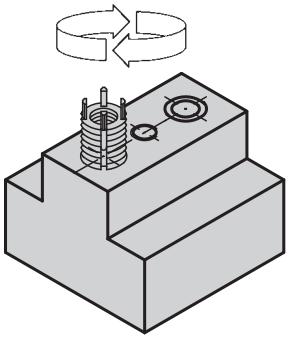
Fitting instructions



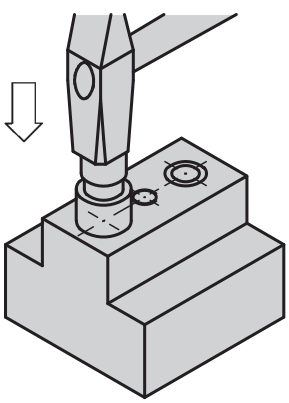
1.*
Rebore the old thread and countersink it (82° – 100°).



2.*
Tap thread with a standard screw tap.



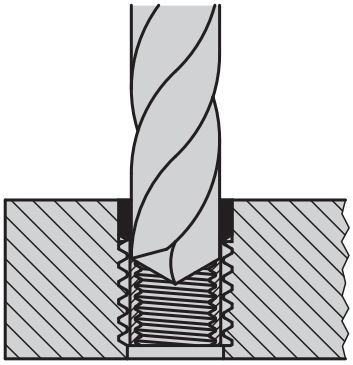
3.
Screw in the insert to just below the surface (0.3 – 0.7 mm).



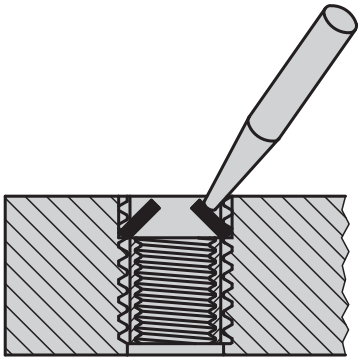
4.
Drive in the locking pins by striking the assembly tool lightly with a hammer.

* For steps 1 and 2 see table under installation of threaded inserts.

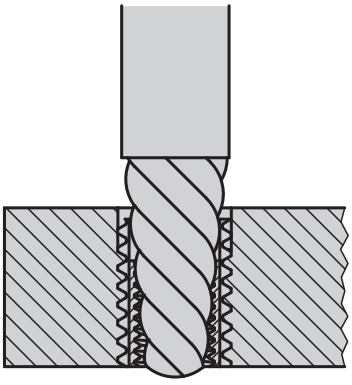
Removal instructions



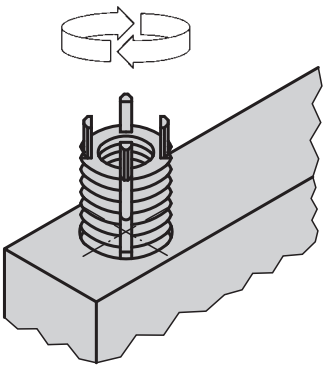
1.*
Rebore the material between the locking pins and the internal thread to the specified depth.



2.
Bend the locking pins inwards and break them off.



3.
Remove the old insert with a screw extractor.

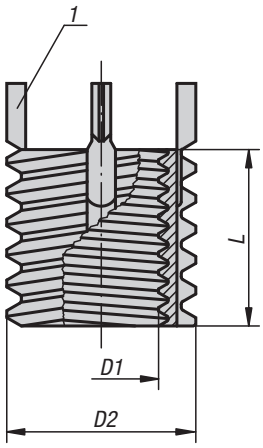


4.
Install a new threaded insert in the original threaded hole.

* For step 1 see tables under “removal drilling depth”

Threaded inserts





Material:
Threaded insert in steel or stainless steel.

Version:
Passivated.

Sample order:
Threaded Insert K0398.12
Assembly tool K0398.812

Note:
Threaded inserts allow threaded holes which have been damaged, torn out or jammed to be used again or to be repaired. This makes it possible to recover scrap and rejects of expensive products.
Threaded inserts are suitable for use in various materials, including light metals and casting. Inserts with internal threads larger than M6 are supplied with four locking pins instead of two. Permissible deviations: The medium tolerance class applies to the threads listed, i.e. 6H for nut threads and 6g for bolt threads. Other dimensions ±0.25 mm.

Technical information see operating instructions for threaded inserts.

Advantages:
- Quick and easy installation.
- The insert is fixed with pins in order to prevent torsion due to twisting or vibrations.
- No other special tools are required besides the assembly tool.

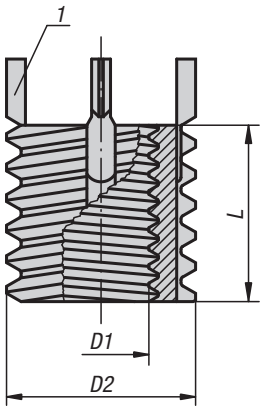
Drawing reference:
1) locking pin

KIPP Threaded inserts and assembly tools

Order No. Steel	Order No. Stainless steel	D1 Internal thread	D2 External thread	L Length	Core drill Ø	Counter-sink Ø +0.25	Tap size	Min. thread depth	Removal drill Ø	Removal drilling depth	Order No. assembly tools
K0398.05	**K0398.105**	M5	M8	8	6,9	8,3	M8	9,5	5,5	4	K0398.805
K0398.06	**K0398.106**	M6	M10x1,25	10	8,8	10,3	M10x1,25	11,5	7,5	4,8	K0398.806
K0398.08	**K0398.108**	M8	M12x1,25	12	10,8	12,3	M12x1,25	13,5	9,5	4,8	K0398.808
K0398.08X1	**K0398.108X1**	M8x1	M12x1,25	12	10,8	12,3	M12x1,25	13,5	9,5	4,8	K0398.808
K0398.10	**K0398.110**	M10	M14x1,5	14	12,8	14,3	M14x1,5	15,5	11,5	4,8	K0398.810
K0398.10X125	**K0398.110X125**	M10x1,25	M14x1,5	14	12,8	14,3	M14x1,5	15,5	11,5	4,8	K0398.810
K0398.12	**K0398.112**	M12	M16x1,5	16	14,8	16,3	M16x1,5	17,5	13,5	4,8	K0398.812
K0398.12X125	**K0398.112X125**	M12x1,25	M16x1,5	16	14,8	16,3	M16x1,5	17,5	13,5	4,8	K0398.812

Threaded inserts reinforced





Material:
Threaded insert in steel or stainless steel.

Version:
Passivated.

Sample order:
Reinforced threaded insert K0399.12
Assembly tool K0399.812

Note:
Reinforced threaded inserts allow threaded holes which have been damaged, torn out or jammed to be used again or to be repaired. This makes it possible to recover scrap and rejects of expensive products.
Reinforced threaded inserts are suitable for use in various materials, including light metals and casting.
Inserts with internal threads larger than M6 are supplied with four locking pins instead of two.
Permissible deviations:
The medium tolerance class applies to the threads listed, i.e. 6H for nut threads and 6g for bolt threads. Other dimensions ±0.25 mm.

With reinforced threaded inserts we also offer a version with a stronger cross-section for use in applications with greater stress.

Technical information see operating instructions for threaded inserts.

Advantages:
- Quick and easy installation.
- The insert is fixed with pins in order to prevent torsion due to twisting or vibrations.
- No other special tools are required besides the assembly tool.

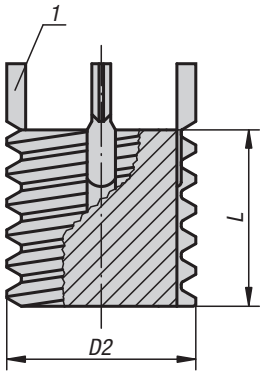
Drawing reference:
1) locking pin

KIPP Threaded inserts reinforced and assembly tools

Order No. Steel	Order No. Stainless steel	D1 Internal thread	D2 External thread	L Length	Core drill Ø	Counter-sink Ø +0.25	Tap size	Min. thread depth	Removal drill Ø	Removal drilling depth	Order No. assembly tools
K0399.04	**K0399.104**	M4	M8	8	6,9	8,3	M8	9,5	5,5	4	K0399.804
K0399.05	**K0399.105**	M5	M10x1,25	10	8,8	10,3	M10x1,25	12,5	7,5	4,8	K0399.805
K0399.06	**K0399.106**	M6	M12x1,25	12	10,8	12,3	M12x1,25	14,5	9,5	4,8	K0399.806
K0399.08	**K0399.108**	M8	M14x1,5	14	12,8	14,3	M14x1,5	16,5	11,5	4,8	K0399.808
K0399.08X1	**K0399.108X1**	M8x1	M14x1,5	14	12,8	14,3	M14x1,5	16,5	11,5	4,8	K0399.808
K0399.10	**K0399.110**	M10	M16x1,5	16	14,8	16,3	M16x1,5	18,5	13,5	4,8	K0399.810
K0399.10X125	**K0399.110X125**	M10x1,25	M16x1,5	16	14,8	16,3	M16x1,5	18,5	13,5	4,8	K0399.810
K0399.12	**K0399.112**	M12	M18x1,5	18	16,8	18,3	M18x1,5	20,5	15,5	4,8	K0399.812
K0399.12X125	**K0399.112X125**	M12x1,25	M18x1,5	18	16,8	18,3	M18x1,5	20,5	15,5	4,8	K0399.812
K0399.14	**K0399.114**	M14	M20x1,5	20	18,8	20,3	M20x1,5	22,5	17,5	4,8	K0399.814
K0399.14X15	**K0399.114X15**	M14x1,5	M20x1,5	20	18,8	20,3	M20x1,5	22,5	17,5	4,8	K0399.814
K0399.16	**K0399.116**	M16	M22x1,5	22	20,7	22,3	M22x1,5	24,5	17,8	6,4	K0399.816
K0399.16X15	**K0399.116X15**	M16x1,5	M22x1,5	22	20,7	22,3	M22x1,5	24,5	17,8	6,4	K0399.816
K0399.18X15	**K0399.118X15**	M18x1,5	M24x1,5	24	22,5	24,3	M24x1,5	26,5	19,8	6,4	K0399.818
K0399.20	**K0399.120**	M20	M30x2	30	28	30,3	M30x2	34,5	25,8	6,4	K0399.820
K0399.20X15	**K0399.120X15**	M20x1,5	M30x2	30	28	30,3	M30x2	34,5	25,8	6,4	K0399.820
K0399.22X15	**K0399.122X15**	M22x1,5	M32x2	32	30	32,3	M32x2	36,5	27,8	6,4	K0399.822
K0399.24	**K0399.124**	M24	M33x2	33	31	33,3	M33x2	37,5	28,8	6,4	K0399.824
K0399.24X2	**K0399.124X2**	M24x2	M33x2	33	31	33,3	M33x2	37,5	28,8	6,4	K0399.824

Threaded inserts solid body





Material:
Threaded insert in steel.

Version:
Passivated.

Sample order:
Solid body threaded insert K0400.10X125
Assembly tool K0400.810

Note:
Solid body threaded inserts allow threaded holes which have been damaged, torn out or jammed to be used again or to be repaired. This makes it possible to recover scrap and rejects of expensive products.
Solid body threaded inserts are suitable for use in various materials, including light metals and castings.
Permissible deviations:
The medium tolerance class applies to the threads listed, i.e. 6g for bolt threads.
Other dimensions ±0.25 mm.

Solid body threaded inserts are used where threaded holes that have been drilled too large or drill hole spacings that have not been observed in workpieces need to be redone.

Technical information see operating instructions for threaded inserts.

Advantages:
- Quick and easy installation.
- The insert is fixed with pins in order to prevent torsion due to twisting or vibrations.
- No other special tools are required besides the assembly tool.

Drawing reference:
1) locking pin

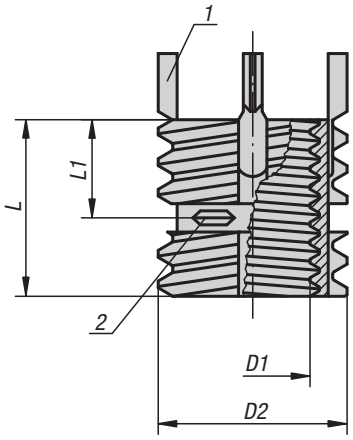
KIPP Threaded inserts solid body and assembly tools

Order No.	D2 External thread	L Length	Core drill Ø	Counter-sink Ø +0.25	Tap size	Min. thread depth	Removal drill Ø	Removal drilling depth	Order No. assembly tools
K0400.08	M8	8	6,9	8,3	M8	9,5	5,5	4	K0400.808
K0400.10X125	M10x1,25	10	8,8	10,3	M10x1,25	12,5	7,5	4,8	K0400.810
K0400.12X125	M12x1,25	12	10,8	12,3	M12x1,25	14,5	9,5	4,8	K0400.812
K0400.14X15	M14x1,5	14	12,8	14,3	M14x1,5	16,5	11,5	4,8	K0400.814
K0400.16X15	M16x1,5	16	14,8	16,3	M16x1,5	18,5	13,5	4,8	K0400.816
K0400.18X15	M18x1,5	18	16,8	18,3	M18x1,5	20,5	15,5	4,8	K0400.818
K0400.20X15	M20x1,5	20	18,8	20,3	M20x1,5	22,5	17,5	4,8	K0400.820
K0400.22X15	M22x1,5	22	20,7	22,3	M22x1,5	24,5	17,8	6,4	K0400.822
K0400.24X15	M24x1,5	24	22,5	24,3	M24x1,5	26,5	19,8	6,4	K0400.824
K0400.30X2	M30x2	30	28	30,3	M30x2	34,5	25,8	6,4	K0400.830

Threaded inserts

with internal thread, self-locking





Material:
Threaded insert in stainless steel.

Version:
Passivated.

Sample order:
Threaded Insert K0401.112
Assembly tool K0398.812

Note:
Threaded inserts allow threaded holes which have been damaged, torn out or jammed to be used again or to be repaired. This makes it possible to recover scrap and rejects of expensive products.
Threaded inserts are suitable for use in various materials, including light metals and casting.
Inserts with internal threads larger than M6 are supplied with four locking pins instead of two.
Permissible deviations:
the medium tolerance class applies to the threads listed, i.e. 6H for nut threads and 6g for bolt threads.
Other dimensions ±0.25 mm.

Technical information see operating instructions for threaded inserts.

Advantages:
- Quick and easy installation.
- The insert is fixed with pins in order to prevent torsion due to twisting or vibrations.
- No other special tools are required besides the assembly tool.

Drawing reference:
1) locking pin
2) self-locking part of internal thread

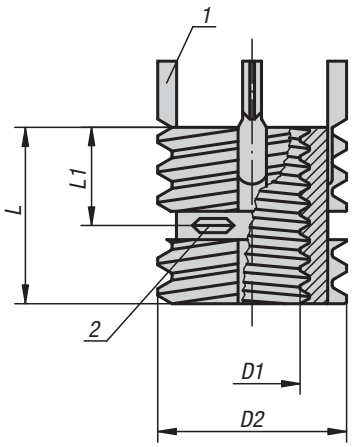
KIPP Threaded inserts with internal thread, self-locking and assembly tools

Order No.	D1 Internal thread	D2 External thread	L1 Length	L Length	Core drill Ø	Counter-sink Ø +0.25	Tap size	Min. thread depth	Removal drill Ø	Removal drilling depth	Order No. assembly tools
K0401.105	M5	M8	4	8	6,9	8,3	M8	9,5	5,5	4	K0398.805
K0401.106	M6	M10x1,25	5	10	8,8	10,3	M10x1,25	11,5	7,5	4,8	K0398.806
K0401.108	M8	M12x1,25	6	12	10,8	12,3	M12x1,25	13,5	9,5	4,8	K0398.808
K0401.110	M10	M14x1,5	7	14	12,8	14,3	M14x1,5	15,5	11,5	4,8	K0398.810
K0401.112	M12	M16x1,5	8	16	14,8	16,3	M16x1,5	17,5	13,5	4,8	K0398.812

Threaded inserts reinforced

internal thread, self-locking





Material:
Threaded insert in stainless steel.

Version:
Passivated.

Sample order:
Reinforced threaded insert K0402.110
Assembly tool K0399.812

Note:
Reinforced threaded inserts allow threaded holes which have been damaged, torn out or jammed to be used again or to be repaired. This makes it possible to recover scrap and rejects of expensive products. Reinforced threaded inserts are suitable for use in various materials, including light metals and casting. Inserts with internal threads larger than M6 are supplied with four locking pins instead of two.
Permissible deviations:
The medium tolerance class applies to the threads listed, i.e. 6H for nut threads and 6g for bolt threads. Other dimensions ±0.25 mm.

Technical information see operating instructions for threaded inserts.

Advantages:
- Quick and easy installation.
- The insert is fixed with pins in order to prevent torsion due to twisting or vibrations.
- No other special tools are required besides the assembly tool.

Drawing reference:
1) locking pin
2) self-locking part of internal thread

KIPP Threaded inserts reinforced with internal thread, self-locking and assembly tools

Order No.	D1 Internal thread	D2 External thread	L1 Length	L Length	Core drill Ø	Counter-sink Ø +0.25	Tap size	Min. thread depth	Removal drill Ø	Removal drilling depth	Order No. assembly tools
K0402.104	M4	M8	4	8	6,9	8,3	M8	9,5	5,5	4	K0399.804
K0402.105	M5	M10x1,25	5	10	8,8	10,3	M10x1,25	12,5	7,5	4,8	K0399.805
K0402.106	M6	M12x1,25	6	12	10,8	12,3	M12x1,25	14,5	9,5	4,8	K0399.806
K0402.108	M8	M14x1,5	7	14	12,8	14,3	M14x1,5	16,5	11,5	4,8	K0399.808
K0402.110	M10	M16x1,5	8	16	14,8	16,3	M16x1,5	18,5	13,5	4,8	K0399.810
K0402.112	M12	M18x1,5	9	18	16,8	18,3	M18x1,5	20,5	15,5	4,8	K0399.812
K0402.114	M14	M20x1,5	10	20	18,8	20,3	M20x1,5	22,5	17,5	4,8	K0399.814
K0402.116	M16	M22x1,5	11	22	20,7	22,3	M22x1,5	24,5	17,8	6,4	K0399.816
K0402.116X15	M16x1,5	M22x1,5	11	22	20,7	22,3	M22x1,5	24,5	17,8	6,4	K0399.816
K0402.118X15	M18x1,5	M24x1,5	12	24	22,5	24,3	M24x1,5	26,5	19,8	6,4	K0399.818
K0402.120	M20	M30x2	15	30	28	30,3	M30x2	34,5	25,8	6,4	K0399.820

Repair kit



Material:
Threaded insert in steel.

Version:
Passivated.

Sample order:
K0653.01

Note:
The repair kit allows threaded holes which have been damaged, torn out or jammed to be used again or to be repaired. This makes it possible to recover scrap and rejects of expensive products.
Threaded inserts are suitable for use in various materials, including light metals and casting.
Inserts with internal threads larger than M6 are supplied with four locking pins instead of two.
Permissible deviations:
the medium tolerance class applies to the threads listed, i.e. 6H for nut threads and 6g for bolt threads.
Other dimensions ±0.25 mm.

Technical information see operating instructions for threaded inserts.

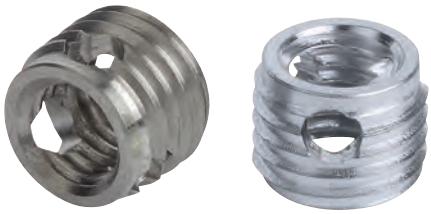
Advantages:
- Quick and easy installation.
- The insert is fixed with pins in order to prevent torsion due to twisting or vibrations.
- No other special tools are required besides the assembly tool.

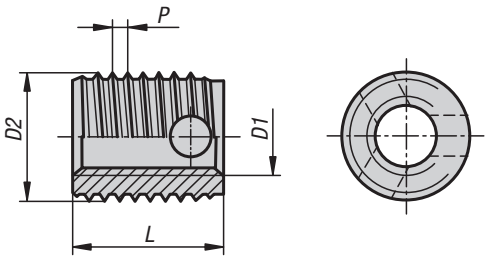
KIPP Repair kit

Order No.	Threaded inserts supplied internal thread	Threaded inserts supplied external thread	Length of inserts	Number of inserts	Number of assembly tool	Order No. Threaded insert
K0653.01	M5	M8	8	8	1	K0398.05
	M6	M10x1,25	10	8	1	K0398.06
	M8	M12x1,25	12	6	1	K0398.08
	M8x1	M12x1,25	12	6	-	K0398.08X1
	M10	M14x1,5	14	4	1	K0398.10
	M10x1,25	M14x1,5	14	4	-	K0398.10X125
	M12	M16x1,5	16	3	1	K0398.12
	M12x1,25	M16x1,5	16	3	-	K0398.12X125

Threaded inserts self-tapping

with cutting bores





Material:
Steel or 1.4305 stainless steel

Version:
Steel case hardened, galvanised.
Stainless steel bright.

Sample order:
K0979.03

Note:
Self-tapping threaded inserts for making high-strength, wear-free, vibration resistant screw connections in materials with low shear strength such as aluminium and aluminium alloys, brass, bronze, cast iron, duro and thermoplastics.

The threaded inserts are tapered at the bottom and have three cutting bores. They cut their own threads inside a receiver hole. This guarantees a completely secure and firm anchoring in the host material.

Internal thread D1 acc. to ISO 6H.

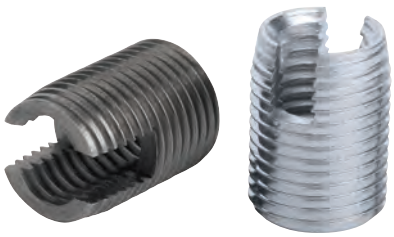
The threaded inserts with cutting bores are designed especially for materials difficult to machine. Due to the thicker wall, it can withstand greater force during cutting, which is also distributed over three cutting bores.

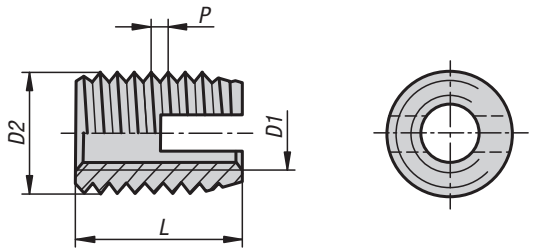
KIPP Threaded inserts self-tapping with cutting bores

Order No.	Main material	D1	D2	P	L	T min.	R min. light metal	R min. cast iron	R min. plastics	Order No. Hand ass. tool	Order No. M/C ass. tool
K0979.03	Steel	M3	5	0,6	4	6	1	1,5	1,25	K0978.803	K0978.903
K0979.04	Steel	M4	6,5	0,8	6	8	1,3	1,95	1,6	K0978.804	K0978.904
K0979.05	Steel	M5	8	1	7	9	1,6	2,4	2	K0978.805	K0978.905
K0979.06	Steel	M6	10	1,25	8	10	2	3	2,5	K0978.806	K0978.906
K0979.08	Steel	M8	12	1,5	9	11	2,4	3,6	3	K0978.808	K0978.908
K0979.10	Steel	M10	14	1,5	10	13	2,8	4,2	3,5	K0978.810	K0978.910
K0979.12	Steel	M12	16	1,75	12	15	3,2	4,8	4	K0978.812	K0978.912
K0979.103	Stainless steel	M3	5	0,6	4	6	1	1,5	1,25	K0978.803	K0978.903
K0979.104	Stainless steel	M4	6,5	0,8	6	8	1,3	1,95	1,6	K0978.804	K0978.904
K0979.105	Stainless steel	M5	8	1	7	9	1,6	2,4	2	K0978.805	K0978.905
K0979.106	Stainless steel	M6	10	1,25	8	10	2	3	2,5	K0978.806	K0978.906
K0979.108	Stainless steel	M8	12	1,5	9	11	2,4	3,6	3	K0978.808	K0978.908
K0979.110	Stainless steel	M10	14	1,5	10	13	2,8	4,2	3,5	K0978.810	K0978.910
K0979.112	Stainless steel	M12	16	1,75	12	15	3,2	4,8	4	K0978.812	K0978.912

Threaded inserts self-tapping

with cutting slot





Material:
Steel or 1.4305 stainless steel

Version:
Steel case hardened, galvanised.
Stainless steel bright.

Sample order:
K0978.03

Note:
Self-tapping threaded inserts for making high-strength, wear-free, vibration resistant screw connections in materials with low shear strength such as aluminium and aluminium alloys, brass, bronze, cast iron, duro and thermoplastics.

The threaded inserts are tapered at the bottom and have a cutting slot. By screwing in they cut their own threads inside a receiver hole. This guarantees a completely secure and firm anchoring in the host material.

Internal thread D1 acc. to ISO 6H.

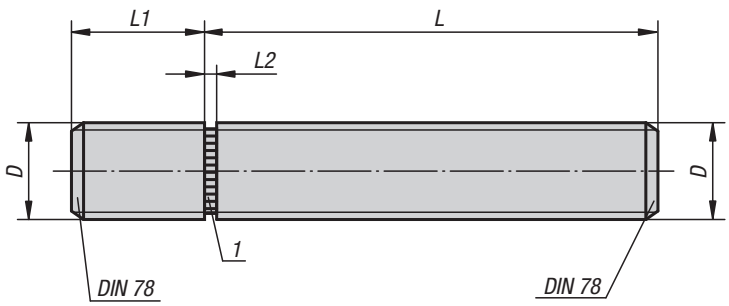
The threaded inserts with cutting slot spring slightly inwards in the slot region in some materials. This results in a screw locking effect. If this is not desired, we recommend the threaded inserts with a cutting bore.

KIPP Threaded inserts self-tapping with cutting slot

Order No.	Main material	D1	D2	P	L	T min.	R min. light metal	R min. cast iron	R min. plastics	Order No. Hand ass. tool	Order No. M/C ass. tool
K0978.03	steel	M3	5	0,5	6	8	1	1,5	1,25	K0978.803	K0978.903
K0978.04	steel	M4	6,5	0,75	8	10	1,3	1,95	1,6	K0978.804	K0978.904
K0978.05	steel	M5	8	1	10	13	1,6	2,4	2	K0978.805	K0978.905
K0978.06	steel	M6	10	1,5	14	17	2	3	2,5	K0978.806	K0978.906
K0978.08	steel	M8	12	1,5	15	18	2,4	3,6	3	K0978.808	K0978.908
K0978.10	steel	M10	14	1,5	18	22	2,8	4,2	3,5	K0978.810	K0978.910
K0978.12	steel	M12	16	1,5	22	26	3,2	4,8	4	K0978.812	K0978.912
K0978.16	steel	M16	20	1,5	22	27	4	6	5	-	K0978.916
K0978.103	stainless steel	M3	5	0,5	6	8	1	1,5	1,25	K0978.803	K0978.903
K0978.104	stainless steel	M4	6,5	0,75	8	10	1,3	1,95	1,6	K0978.804	K0978.904
K0978.105	stainless steel	M5	8	1	10	13	1,6	2,4	2	K0978.805	K0978.905
K0978.106	stainless steel	M6	10	1,5	14	17	2	3	2,5	K0978.806	K0978.906
K0978.108	stainless steel	M8	12	1,5	15	18	2,4	3,6	3	K0978.808	K0978.908
K0978.110	stainless steel	M10	14	1,5	18	22	2,8	4,2	3,5	K0978.810	K0978.910
K0978.112	stainless steel	M12	16	1,5	22	26	3,2	4,8	4	K0978.812	K0978.912
K0978.116	stainless steel	M16	20	1,5	22	27	4	6	5	-	K0978.916

Studs

with screw-in stop for gluing in





Material:
Steel or 1.4305 stainless steel

Version:
Steel blue passivated.
Stainless steel, bright.

Sample order:
K0404.1040201

Note:
Studs with screw-in stop have been designed especially for gluing-in. They allow mechanical connecting elements with external thread to be made cost-effectively for small and medium-sized series. The LOCTITE products 638 and 648 (see K0655) have proven themselves in practice as successful bonding agents.

Drawing reference:
1) screw-in stop

KIPP Studs with screw-in stop

Order No. Steel	Order No. Stainless steel	D	L	L1	L2
K0404.1040201	K0404.1040202	M4	20	6	1
K0404.1040301	K0404.1040302	M4	30	6	1
K0404.1040401	K0404.1040402	M4	40	6	1
K0404.1040501	K0404.1040502	M4	50	6	1
K0404.1050201	K0404.1050202	M5	20	8	1
K0404.1050301	K0404.1050302	M5	30	8	1
K0404.1050401	K0404.1050402	M5	40	8	1
K0404.1050501	K0404.1050502	M5	50	8	1
K0404.1050601	K0404.1050602	M5	60	8	1
K0404.1060201	K0404.1060202	M6	20	9	1,5
K0404.1060301	K0404.1060302	M6	30	9	1,5
K0404.1060401	K0404.1060402	M6	40	9	1,5
K0404.1060501	K0404.1060502	M6	50	9	1,5
K0404.1060601	K0404.1060602	M6	60	9	1,5
K0404.1080201	K0404.1080202	M8	20	12	1,5
K0404.1080301	K0404.1080302	M8	30	12	1,5
K0404.1080401	K0404.1080402	M8	40	12	1,5
K0404.1080501	K0404.1080502	M8	50	12	1,5
K0404.1080601	K0404.1080602	M8	60	12	1,5
K0404.1080801	K0404.1080802	M8	80	12	1,5
K0404.1100201	K0404.1100202	M10	20	14	2
K0404.1100301	K0404.1100302	M10	30	14	2
K0404.1100401	K0404.1100402	M10	40	14	2
K0404.1100501	K0404.1100502	M10	50	14	2
K0404.1100601	K0404.1100602	M10	60	14	2
K0404.1100801	K0404.1100802	M10	80	14	2
K0404.1120301	K0404.1120302	M12	30	17	2
K0404.1120401	K0404.1120402	M12	40	17	2
K0404.1120501	K0404.1120502	M12	50	17	2
K0404.1120601	K0404.1120602	M12	60	17	2
K0404.1120801	K0404.1120802	M12	80	17	2
K0404.1160301	K0404.1160302	M16	30	22	2
K0404.1160401	K0404.1160402	M16	40	22	2
K0404.1160501	K0404.1160502	M16	50	22	2
K0404.1160601	K0404.1160602	M16	60	22	2
K0404.1160801	K0404.1160802	M16	80	22	2

Stud sets

with screw-in stop for gluing in



Material:
Steel or 1.4305 stainless steel

Version:
Steel blue passivated.
Stainless steel, bright.

Sample order:
K0405.01

Note:
Studs with screw-in stop have been designed especially for gluing-in. They allow mechanical connecting elements with external thread to be made cost-effectively for small and medium-sized series. The LOCTITE products 638 and 648 have proven themselves in practice as a successful bonding agent. Technical data see K0404.

Safety:
Safety information is available on our internet site.

KIPP Stud sets with screw-in stop

Order No. Steel	Order No. Stainless steel	Content (pcs.) (LOCTITE adhesives 638 and 648 not included)
K0405.01	**K0405.02**	M5x20 (x20), M5x40 (x20), M5x60 (x10), M6x20 (x20), M6x40 (x20), M6x60 (x10), M8x20 (x10), M8x40 (x10), M8x60 (x6), M10x20 (x10), M10x40 (x10), M10x60 (x6), M12x40 (x6), M12x60 (x6)

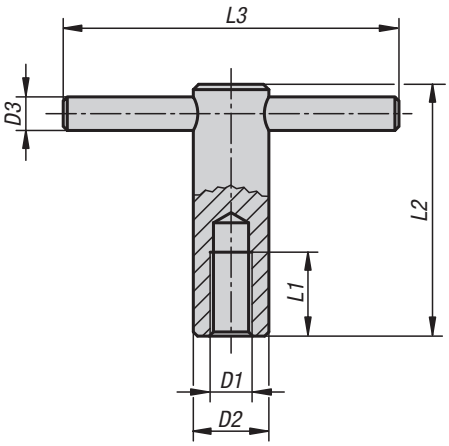
KIPP LOCTITE adhesives (accessories)

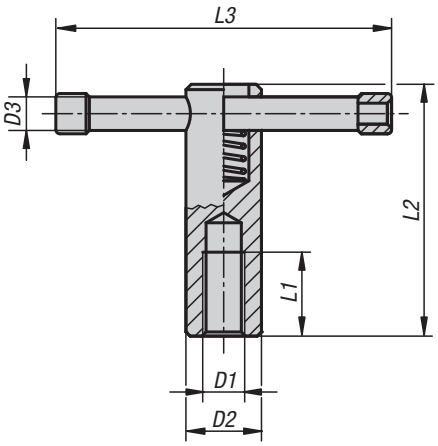
Order No.	Version	Container	Shearing strength N/mm²	Break-away torque Nm	Temperature resistance
K0655.6380010	LOCTITE 638	10 ml bottle	20-35	35-60	-55 °C up to 150 °C
K0655.6480010	LOCTITE 648	10 ml bottle	16-30	30-55	-55 °C up to 175 °C

Tommy bars

with fixed or sliding T-bar, DIN 6305 or DIN 6307





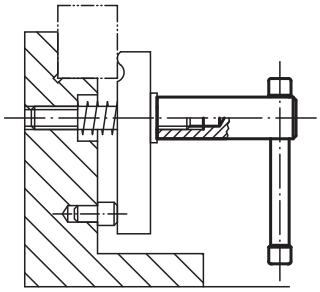


Material:
Steel.

Version:
Black oxidised.

Sample order:
K0755.210

Note:
By the version with sliding T-bar the bar is held in any desired position by a spring in the body. End stops prevent the bar falling out.
By the version with fixed T-bar the bar is pressed in.

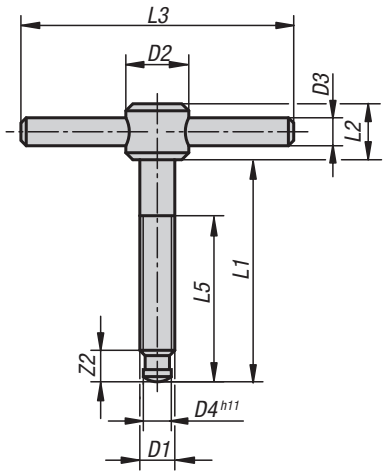


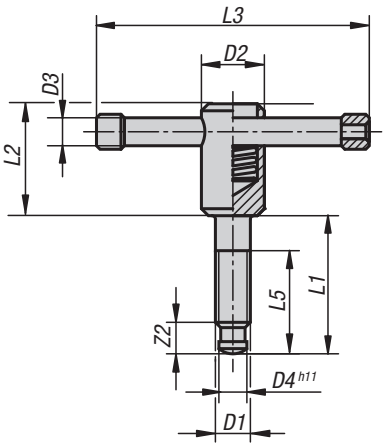
KIPP Tommy bars with fixed or sliding T-bar, DIN 6305 or DIN 6307

Order No.	Version	D1	D2	D3	L1	L2	L3
K0755.110	fixed T-bar	M10	18	8	20	60	80
K0755.112	fixed T-bar	M12	20	10	25	70	100
K0755.116	fixed T-bar	M16	24	12	35	85	120
K0755.120	fixed T-bar	M20	30	16	40	95	140
K0755.210	sliding T-bar	M10	18	8	20	60	80
K0755.212	sliding T-bar	M12	20	10	25	70	100
K0755.216	sliding T-bar	M16	24	13	35	85	120
K0755.220	sliding T-bar	M20	30	16	40	95	140

T-thrust screws

with fixed or sliding T-bar, DIN 6304 or DIN 6306





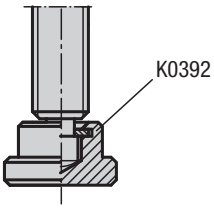


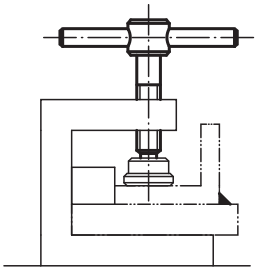
Material:
Steel.

Version:
Black oxidised. Thrust pin hardened.

Sample order:
K0756.106X40

Note:
By the thrust screws with sliding T-bar the bar is held in any desired position by a spring in the body. End stops prevent the bar falling out. By the fixed handles the T-bar is pressed in.





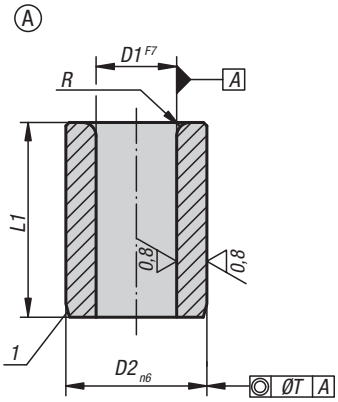
KIPP T-thrust screws with fixed or sliding T-bar, DIN 6304 or DIN 6306

Order No.	Version	L1	D1	D2	D3	D4	L2	L3	L5	Z2
K0756.106X40	fixed T-bar	40	M6	12	5	4,5	10	50	30	6
K0756.106X50	fixed T-bar	50	M6	12	5	4,5	10	50	40	6
K0756.108X50	fixed T-bar	50	M8	14	6	6	12	60	35	7,5
K0756.108X60	fixed T-bar	60	M8	14	6	6	12	60	45	7,5
K0756.110X60	fixed T-bar	60	M10	18	8	8	14	80	40	9
K0756.110X70	fixed T-bar	70	M10	18	8	8	14	80	50	9
K0756.112X70	fixed T-bar	70	M12	20	10	8	18	100	50	10
K0756.112X80	fixed T-bar	80	M12	20	10	8	18	100	60	10
K0756.116X75	fixed T-bar	75	M16	24	12	12	20	120	55	12
K0756.116X90	fixed T-bar	90	M16	24	12	12	20	120	70	12
K0756.116X110	fixed T-bar	110	M16	24	12	12	20	120	90	12
K0756.120X75	fixed T-bar	75	M20	30	16	15,5	28	140	55	14
K0756.120X90	fixed T-bar	90	M20	30	16	15,5	28	140	70	14
K0756.120X110	fixed T-bar	110	M20	30	16	15,5	28	140	90	14
K0756.210X40	sliding T-bar	40	M10	18	8	8	32	80	30	9
K0756.210X50	sliding T-bar	50	M10	18	8	8	32	80	40	9
K0756.212X50	sliding T-bar	50	M12	20	10	8	35	100	40	10
K0756.212X60	sliding T-bar	60	M12	20	10	8	35	100	50	10
K0756.216X55	sliding T-bar	55	M16	24	13	12	40	120	45	12
K0756.216X70	sliding T-bar	70	M16	24	13	12	40	120	60	12
K0756.216X90	sliding T-bar	90	M16	24	13	12	40	120	80	12
K0756.220X55	sliding T-bar	55	M20	30	16	15,5	45	140	45	14
K0756.220X70	sliding T-bar	70	M20	30	16	15,5	45	140	60	14
K0756.220X90	sliding T-bar	90	M20	30	16	15,5	45	140	80	14

Drill bushes cylindrical

DIN 179





Material:
Special low carbon steel

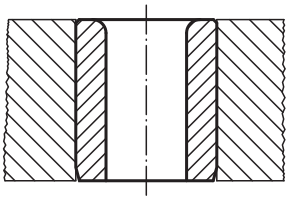
Version:
Hardened to 740 ±80 HV 10 and ground.

Sample order:
K1021.A0120X06
(cylindrical drill bush, Form A with
D1 = 1.2 mm and L1 = 6 mm)

Note:
From diameter D1 over 15 mm size increases are 0.5 mm.

Drawing reference:
Form A: hole, rounded at one end

1) Chamfer for insert



KIPP Drill bushes cylindrical DIN 179

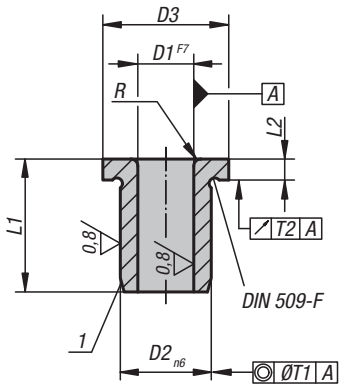
D1	D2	L1	Version	R	T
from 0,4 to 0,8	3	6	short	1	0,01
from 0,9 to 1,0	3	6/9	short/medium	1	0,01
from 1,1 to 1,8	4	6/9	short/medium	1	0,01
from 1,9 to 2,6	5	6/9	short/medium	1	0,01
from 2,7 to 3,3	6	8/12/16	short/medium/long	1	0,01
from 3,4 to 4,0	7	8/12/16	short/medium/long	1	0,01
from 4,1 to 5,0	8	8/12/16	short/medium/long	1	0,01
from 5,1 to 6,0	10	10/16/20	short/medium/long	1,5	0,02
from 6,1 to 8,0	12	10/16/20	short/medium/long	1,5	0,02
from 8,1 to 10,0	15	12/20/25	short/medium/long	2	0,02
from 10,1 to 12,0	18	12/20/25	short/medium/long	2	0,02
from 12,1 to 15,0	22	16/28/36	short/medium/long	2	0,02
from 15,5 to 18,0	26	16/28/36	short/medium/long	2	0,02
from 18,5 to 22,0	30	20/36/45	short/medium/long	3	0,02
from 22,5 to 26,0	35	20/36/45	short/medium/long	3	0,02
from 26,5 to 30,0	42	25/45/56	short/medium/long	3	0,02
from 30,5 to 35,0	48	25/45/56	short/medium/long	3	0,04
from 35,5 to 42,0	55	30/56/67	short/medium/long	3,5	0,04
from 42,5 to 48,0	62	30/56/67	short/medium/long	3,5	0,04

Drill bushes flanged

DIN 172



Ⓐ



Material:
Special steel.

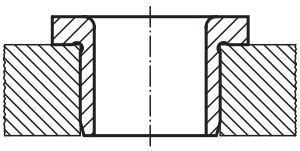
Version:
Hardened and ground.
Hardness 740 ±80 HV 10

Sample order:
K1022.A0120X09
(flanged drill bush, Form A with
D1 = 1.2 mm and L1 = 9 mm)

Note:
From diameter D1 over 15 mm size increases are 0.5 mm.

Drawing reference:
Form A: hole, rounded at one end

1) Chamfer for insert



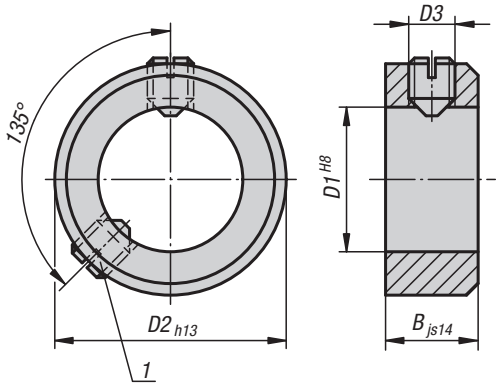
KIPP Drill bushes flanged DIN 172

D1	D2	D3	L1	Version	L2	R	T1	T2
from 0,4 to 0,8	3	6	6	short	2	1	0,01	0,03
from 0,9 to 1,0	3	6	6/9	short/medium	2	1	0,01	0,03
from 1,1 to 1,8	4	7	6/9	short/medium	2	1	0,01	0,03
from 1,9 to 2,6	5	8	6/9	short/medium	2	1	0,01	0,03
from 2,7 to 3,3	6	9	8/12/16	short/medium/length	2,5	1	0,01	0,03
from 3,4 to 4,0	7	10	8/12/16	short/medium/length	2,5	1	0,01	0,03
from 4,1 to 5,0	8	11	8/12/16	short/medium/length	2,5	1	0,01	0,03
from 5,1 to 6,0	10	13	10/16/20	short/medium/length	3	1,5	0,02	0,03
from 6,1 to 8,0	12	15	10/16/20	short/medium/length	3	1,5	0,02	0,03
from 8,1 to 10,0	15	18	12/20/25	short/medium/length	3	2	0,02	0,03
from 10,1 to 12,0	18	22	12/20/25	short/medium/length	4	2	0,02	0,03
from 12,1 to 15,0	22	26	16/28/36	short/medium/length	4	2	0,02	0,03
from 15,5 to 18,0	26	30	16/28/36	short/medium/length	4	2	0,02	0,03
from 18,5 to 22,0	30	34	20/36/45	short/medium/length	5	3	0,02	0,03
from 22,5 to 26,0	35	39	20/36/45	short/medium/length	5	3	0,02	0,05
from 26,5 to 30,0	42	46	25/45/56	short/medium/length	5	3	0,02	0,05
from 30,5 to 35,0	48	52	25/45/56	short/medium/length	5	3	0,04	0,05
from 35,5 to 42,0	55	59	30/56/67	short/medium/length	5	3,5	0,04	0,05
from 42,5 to 48,0	62	66	30/56/67	short/medium/length	6	3,5	0,04	0,05

Shaft collars set screw

DIN 705, steel





Material:
Steel.

Version:
Bright.

Sample order:
K0406.100301

Note:
Form A: with grub screw DIN 553 (recess)
Form E: with grub screw DIN 914 (hexagon socket)

Drawing reference:
1) Second grub screw from D1 ≥ 75

KIPP Shaft collars set screw DIN 705, steel

Order No. Form A	Order No. Form E	D1	B	D2	D3 grub screw
K0406.100301	K0406.300301	3	5	7	M2x3
K0406.100401	K0406.300401	4	5	8	M2,5x3
K0406.100501	K0406.300501	5	6	10	M3x4
K0406.100601	K0406.300601	6	8	12	M4x5
K0406.100701	K0406.300701	7	8	12	M4x5
K0406.100801	K0406.300801	8	8	16	M4x6
K0406.100901	K0406.300901	9	10	18	M5x8
K0406.101001	K0406.301001	10	10	20	M5x8
K0406.101101	K0406.301101	11	10	20	M5x8
K0406.101201	K0406.301201	12	12	22	M6x8
K0406.101401	K0406.301401	14	12	25	M6x8
K0406.101501	K0406.301501	15	12	25	M6x8
K0406.101601	K0406.301601	16	12	28	M6x8
K0406.101801	K0406.301801	18	14	32	M6x8

Shaft collars set screw

DIN 705, steel

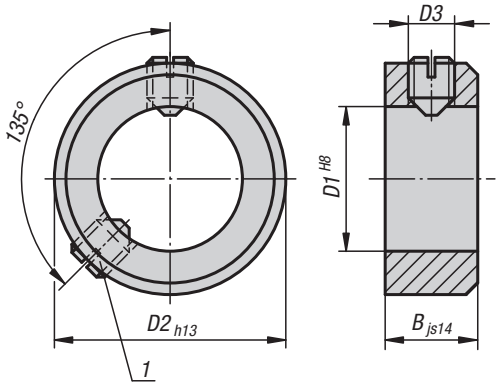
KIPP Shaft collars set screw DIN 705, steel

Order No. Form A	Order No. Form E	D1	B	D2	D3 set screw
K0406.102001	K0406.302001	20	14	32	M6x8
K0406.102401	K0406.302401	24	16	40	M8x12
K0406.102501	K0406.302501	25	16	40	M8x10
K0406.102601	K0406.302601	26	16	40	M8x10
K0406.102801	K0406.302801	28	16	45	M8x12
K0406.103001	K0406.303001	30	16	45	M8x10
K0406.103201	K0406.303201	32	16	50	M8x12
K0406.103501	K0406.303501	35	16	56	M8x12
K0406.103601	K0406.303601	36	16	56	M8x12
K0406.103801	K0406.303801	38	16	56	M8x12
K0406.104001	K0406.304001	40	18	63	M10x16
K0406.104201	K0406.304201	42	18	63	M10x16
K0406.104501	K0406.304501	45	18	70	M10x16
K0406.104801	K0406.304801	48	18	70	M10x16
K0406.105001	K0406.305001	50	18	80	M10x16
K0406.105601	K0406.305601	56	18	80	M10x16
K0406.105201	K0406.305201	52	18	80	M10x16
K0406.105501	K0406.305501	55	18	80	M10x16
K0406.105801	K0406.305801	58	20	90	M10x16
K0406.106001	K0406.306001	60	20	90	M10x16
K0406.106301	K0406.306301	63	20	90	M10x16
K0406.106801	K0406.306801	68	20	100	M10x20
K0406.106501	K0406.306501	65	20	100	M10x20
K0406.107001	K0406.307001	70	20	100	M10x20
K0406.107201	K0406.307201	72	22	110	M10x20
K0406.107501	K0406.307501	75	22	110	M12x20
K0406.108001	K0406.308001	80	22	110	M12x20
K0406.108501	K0406.308501	85	22	125	M12x25
K0406.109001	K0406.309001	90	22	125	M12x20
K0406.110001	K0406.310001	100	25	140	M12x25

Shaft collars set screw

DIN 705, stainless steel





Material:
Stainless steel 1.4305.

Version:
Bright.

Sample order:
K0406.100302

Note:
Form A: with grub screw DIN 553 (recess)
Form E: with grub screw DIN 914 (hexagon socket)

Drawing reference:
1) Second grub screw from D1 ≥ 75

KIPP Shaft collars set screw DIN 705, stainless steel

Order No. Form A	Order No. Form E	D1	B	D2	D3 grub screw
K0406.100302	K0406.300302	3	5	7	M2x3
K0406.100402	K0406.300402	4	5	8	M2,5x3
K0406.100502	K0406.300502	5	6	10	M3x4
K0406.100602	K0406.300602	6	8	12	M4x5
K0406.100702	K0406.300702	7	8	12	M4x5
K0406.100802	K0406.300802	8	8	16	M4x6
K0406.100902	K0406.300902	9	10	18	M5x8
K0406.101002	K0406.301002	10	10	20	M5x8
K0406.101102	K0406.301102	11	10	20	M5x8
K0406.101202	K0406.301202	12	12	22	M6x8
K0406.101402	K0406.301402	14	12	25	M6x8
K0406.101502	K0406.301502	15	12	25	M6x8
K0406.101602	K0406.301602	16	12	28	M6x8
K0406.101802	K0406.301802	18	14	32	M6x8

Shaft collars set screw

DIN 705, stainless steel

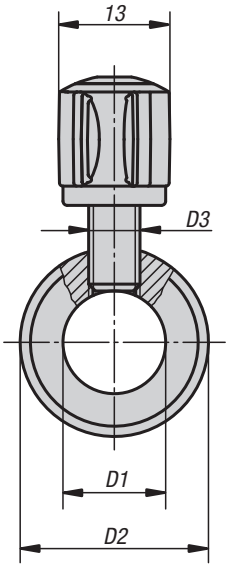
KIPP Shaft collars set screw DIN 705, stainless steel

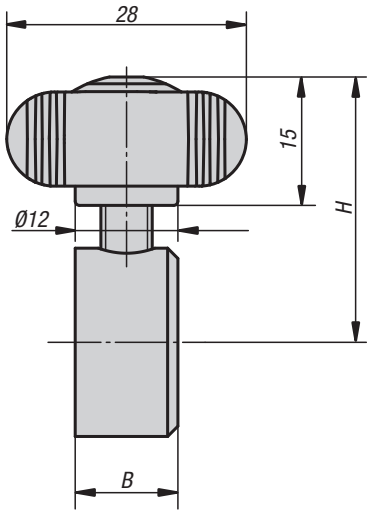
Order No. Form A	Order No. Form E	D1	B	D2	D3 set screw
K0406.102002	K0406.302002	20	14	32	M6x8
K0406.102402	K0406.302402	24	16	40	M8x12
K0406.102502	K0406.302502	25	16	40	M8x10
K0406.102602	K0406.302602	26	16	40	M8x10
K0406.102802	K0406.302802	28	16	45	M8x12
K0406.103002	K0406.303002	30	16	45	M8x10
K0406.103202	K0406.303202	32	16	50	M8x12
K0406.103502	K0406.303502	35	16	56	M8x12
K0406.103602	K0406.303602	36	16	56	M8x12
K0406.103802	K0406.303802	38	16	56	M8x12
K0406.104002	K0406.304002	40	18	63	M10x16
K0406.104202	K0406.304202	42	18	63	M10x16
K0406.104502	K0406.304502	45	18	70	M10x16
K0406.104802	K0406.304802	48	18	70	M10x16
K0406.105002	K0406.305002	50	18	80	M10x16
K0406.105202	K0406.305202	52	18	80	M10x16
K0406.105502	K0406.305502	55	18	80	M10x16
K0406.105602	K0406.305602	56	18	80	M10x16
K0406.105802	K0406.305802	58	20	90	M10x16
K0406.106002	K0406.306002	60	20	90	M10x16
K0406.106302	K0406.306302	63	20	90	M10x16
K0406.106502	K0406.306502	65	20	100	M10x20
K0406.106802	K0406.306802	68	20	100	M10x20
K0406.107002	K0406.307002	70	20	100	M10x20
K0406.107202	K0406.307202	72	22	110	M10x20
K0406.107502	K0406.307502	75	22	110	M12x20
K0406.108002	K0406.308002	80	22	110	M12x20
K0406.108502	K0406.308502	85	22	125	M12x25
K0406.109002	K0406.309002	90	22	125	M12x20
K0406.110002	K0406.310002	100	25	140	M12x25

Shaft collars with wing grip

similar to DIN 705, steel





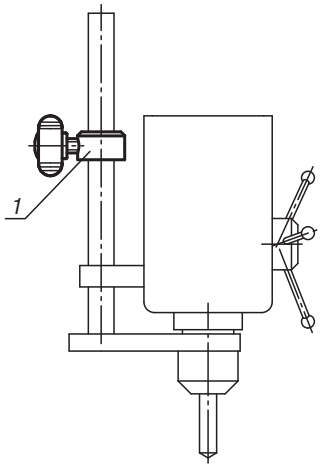


Material:
Shaft collar steel.
Wing grip thermoplastic.
Threaded pin steel grade 5.8.

Version:
Shaft collar bright.
Wing grip black grey.
Screw blue passivated.

Sample order:
K0407.100601

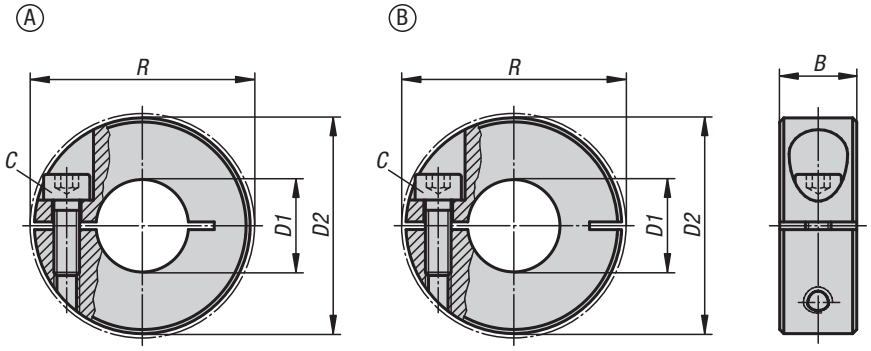
Drawing reference:
1) variable stop



KIPP Shaft collars with wing grip similar to DIN 705, steel

Order No.	B	D1	D2	D3	H
K0407.100601	8	6	12	M4	26
K0407.100801	8	8	16	M4	27
K0407.101001	10	10	20	M5	30
K0407.101201	12	12	22	M6	31
K0407.101601	12	16	28	M6	33
K0407.102001	14	20	32	M6	35
K0407.102501	16	25	40	M8	37,5
K0407.103201	16	32	50	M8	46

Shaft collars one-piece





Material:
Steel 1.0718
Stainless steel 1.4305
Aluminium.

Version:
Steel black oxidised, screw steel 12.9.
Stainless steel bright, screw stainless-steel A2-70.
Aluminium bright, screw stainless-steel A2-70.

Sample order:
K0611.01001

Note:
One-piece shaft collars surround the shaft with a uniformly distributed clamping force. This leads to a dimensionally precise fit and very high retaining forces without damaging the shaft.

The shaft tolerance should lie within h11.

Form A: Standard shaft collar.
Form B: Shaft collar with a ca. 15% higher clamping force than the standard version by the same tightening torque on the locking screw. The bore remains cylindrical which means that the shaft is precisely enclosed. Less imbalance.

Temperature range:
-40 °C to +175 °C.

On request:
Other dimensions.

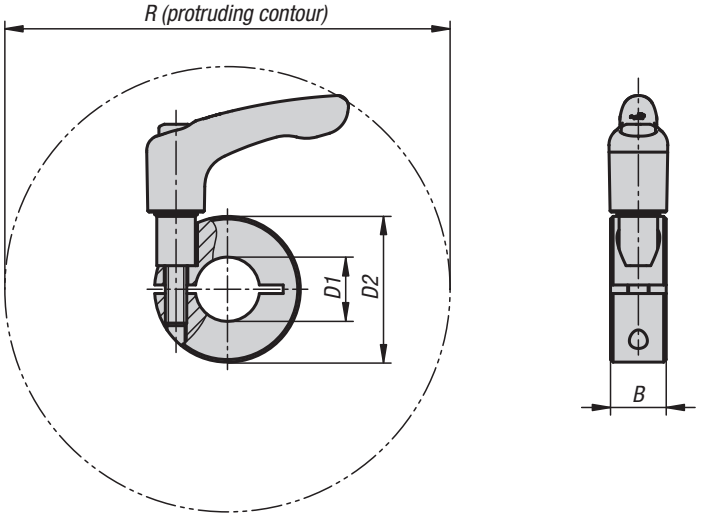
KIPP Shaft collars one-piece

Order No. steel	Order No. stainless steel	Order No. aluminium	Form	B	C (DIN 912)	D1	D2	R
K0611.00401	K0611.00402	K0611.00403	A	9	M3x8	4	16	20,7
K0611.00501	K0611.00502	K0611.00503	A	9	M3x8	5	16	20,7
K0611.00601	K0611.00602	K0611.00603	A	9	M3x8	6	16	20,7
K0611.00801	K0611.00802	K0611.00803	A	9	M3x8	8	18	22,4
K0611.01001	K0611.01002	K0611.01003	A	9	M3x10	10	24	26
K0611.01201	K0611.01202	K0611.01203	A	11	M4x12	12	28	31,8
K0611.01501	K0611.01502	K0611.01503	A	13	M5x16	15	34	39,4
K0611.01601	K0611.01602	K0611.01603	A	13	M5x16	16	34	39,4
K0611.01801	K0611.01802	K0611.01803	A	13	M5x16	18	36	41,1
K0611.02001	K0611.02002	K0611.02003	A	15	M6x18	20	40	46,4
K0611.02201	K0611.02202	K0611.02203	A	15	M6x18	22	42	48,1
K0611.02501	K0611.02502	K0611.02503	A	15	M6x18	25	45	50,8
K0611.02801	K0611.02802	K0611.02803	A	15	M6x18	28	48	53,7
K0611.03001	K0611.03002	K0611.03003	A	15	M6x18	30	54	58,6
K0611.04001	K0611.04002	K0611.04003	A	15	M6x18	40	60	65
K0611.05001	K0611.05002	K0611.05003	A	19	M8x25	50	78	87
K0611.100401	K0611.100402	K0611.100403	B	9	M3x8	4	16	20,7
K0611.100501	K0611.100502	K0611.100503	B	9	M3x8	5	16	20,7
K0611.100601	K0611.100602	K0611.100603	B	9	M3x8	6	16	20,7
K0611.100801	K0611.100802	K0611.100803	B	9	M3x8	8	18	22,4
K0611.101001	K0611.101002	K0611.101003	B	9	M3x10	10	24	26
K0611.101201	K0611.101202	K0611.101203	B	11	M4x12	12	28	31,8
K0611.101501	K0611.101502	K0611.101503	B	13	M5x16	15	34	39,4
K0611.101601	K0611.101602	K0611.101603	B	13	M5x16	16	34	39,4
K0611.101801	K0611.101802	K0611.101803	B	13	M5x16	18	36	41,1
K0611.102001	K0611.102002	K0611.102003	B	15	M6x18	20	40	46,4
K0611.102201	K0611.102202	K0611.102203	B	15	M6x18	22	42	48,1
K0611.102501	K0611.102502	K0611.102503	B	15	M6x18	25	45	50,8
K0611.102801	K0611.102802	K0611.102803	B	15	M6x18	28	48	53,7
K0611.103001	K0611.103002	K0611.103003	B	15	M6x18	30	54	58,6
K0611.104001	K0611.104002	K0611.104003	B	15	M6x18	40	60	65
K0611.105001	K0611.105002	K0611.105003	B	19	M8x25	50	78	87

Shaft collar

one-piece, with clamping lever





Material:
Steel 1.0718.
Stainless steel 1.4305.

Version:
Steel black oxidised.
Stainless steel bright.
Insert stainless-steel.

Sample order:
K0611.11001

Note:
One-piece shaft collars surround the shaft with an equal distribution of the clamping force. This leads to a very precise fit and high retaining force without damaging the shaft.

The shaft tolerance should lie within h11.

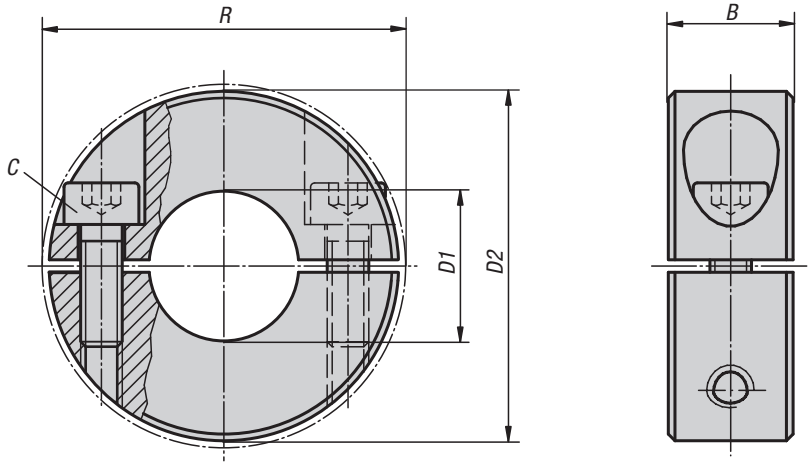
On request:
Other dimensions.

KIPP Shaft collar, one-piece with clamping lever

Order No. Free-cutting steel	Order No. Stainless steel	B	D1	D2	R
K0611.11001	K0611.11002	9	10	24	44,1
K0611.11201	K0611.11202	11	12	28	90,4
K0611.11501	K0611.11502	13	15	34	105
K0611.11601	K0611.11602	13	16	34	105
K0611.11801	K0611.11802	13	18	36	105,7
K0611.12001	K0611.12002	15	20	40	103,8
K0611.12201	K0611.12202	15	22	42	104,2
K0611.12501	K0611.12502	15	25	45	104,8
K0611.12801	K0611.12802	15	28	48	106,8
K0611.13001	K0611.13002	15	30	54	112,6
K0611.14001	K0611.14002	15	40	60	113,2
K0611.15001	K0611.15002	19	50	78	150,2

Shaft collars two-piece





Material:
Steel 1.0718
Stainless steel 1.4305
Aluminium.

Version:
Steel black oxidised, screw steel 12.9.
Stainless steel bright, screw stainless-steel A2-70.
Aluminium bright, screw stainless-steel A2-70.

Sample order:
K0612.01001

Note:
Two-piece shaft collars surround the shaft with a uniformly distributed clamping force. This leads to a dimensionally precise fit and very high retaining forces without damaging the shaft.

The shaft tolerance should lie within h11.

Two-piece shaft collars can be quickly and easily mounted or removed without dismantling other components.

Temperature range:
-40 °C to +175 °C.

On request:
Other dimensions.

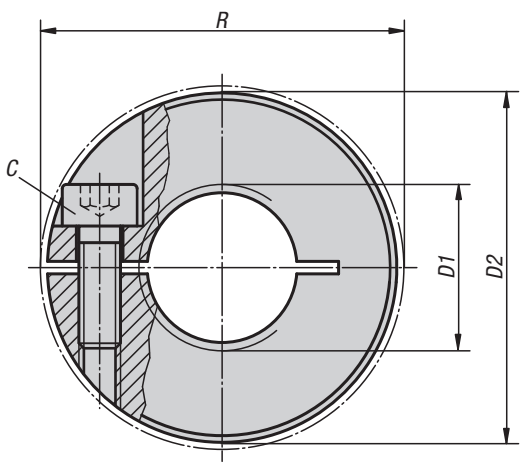
KIPP Shaft collars two-piece

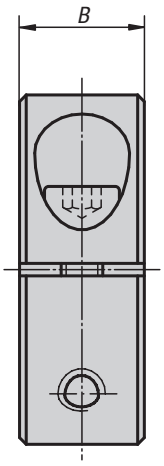
Order No. Steel	Order No. Stainless steel	Order No. Aluminium	B	C (DIN 912)	D1	D2	R
K0612.00401	K0612.00402	K0612.00403	9	M3x8	4	16	20,7
K0612.00501	K0612.00502	K0612.00503	9	M3x8	5	16	20,7
K0612.00601	K0612.00602	K0612.00603	9	M3x8	6	16	20,7
K0612.00801	K0612.00802	K0612.00803	9	M3x8	8	18	22,4
K0612.01001	K0612.01002	K0612.01003	9	M3x10	10	24	26
K0612.01201	K0612.01202	K0612.01203	11	M4x12	12	28	31,8
K0612.01501	K0612.01502	K0612.01503	13	M5x16	15	34	39,4
K0612.01601	K0612.01602	K0612.01603	13	M5x16	16	34	39,4
K0612.01801	K0612.01802	K0612.01803	13	M5x16	18	36	41,1
K0612.02001	K0612.02002	K0612.02003	15	M6x18	20	40	46,4
K0612.02201	K0612.02202	K0612.02203	15	M6x18	22	42	48,1
K0612.02501	K0612.02502	K0612.02503	15	M6x18	25	45	50,8
K0612.02801	K0612.02802	K0612.02803	15	M6x18	28	48	53,7
K0612.03001	K0612.03002	K0612.03003	15	M6x18	30	54	58,6
K0612.04001	K0612.04002	K0612.04003	15	M6x18	40	60	65
K0612.05001	K0612.05002	K0612.05003	19	M8x25	50	78	87

Shaft collars

tapped







Material:
Steel 1.0718.
Stainless steel 1.4305.

Version:
Steel black oxidised.
Screw 12.9 steel.
Stainless steel brig.ht
Screw A2-70 stainless-steel.

Sample order:
K0986.0601

Note:
Shaft collars with thread surround the shaft with an equal distribution of clamping forces.
The shaft collars can be used on threaded rods or shafts with a thread tolerance of 6g.

Temperature range:
-40 °C to +175 °C.

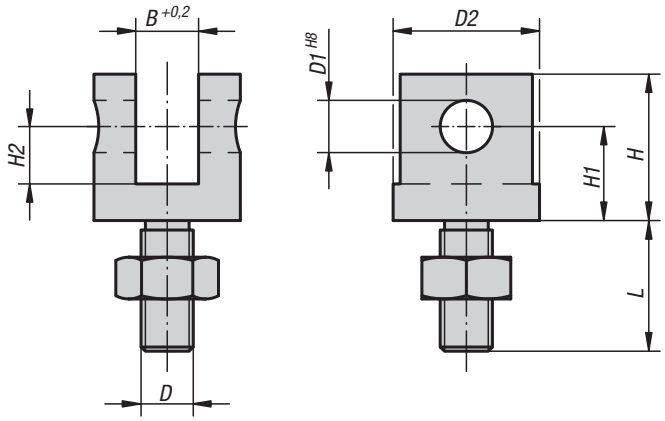
KIPP Shaft collars tapped

Order No. Steel	Order No. Stainless steel	B	C	D1	D2	R
K0986.0401	**K0986.0402**	9	M3x8	M4	16	20,7
K0986.0501	**K0986.0502**	9	M3x8	M5	16	20,7
K0986.0601	**K0986.0602**	9	M3x8	M6	16	20,7
K0986.0801	**K0986.0802**	9	M3x8	M8	18	22,4
K0986.1001	**K0986.1002**	9	M3x10	M10	24	26
K0986.1201	**K0986.1202**	11	M4x12	M12	28	31,8
K0986.1601	**K0986.1602**	13	M5x16	M16	34	39,4
K0986.2001	**K0986.2002**	15	M6x18	M20	40	46,4

Clevis

with external thread



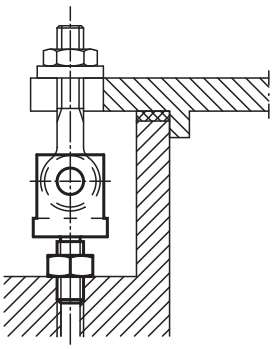


Material:
Carbon steel 1.1191

Version:
Tempered and black oxidised.

Sample order:
K0397.05

Note:
Suitable clevis pin see K0007.



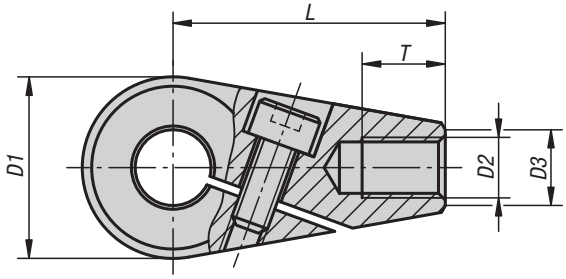
KIPP Clevis with external thread

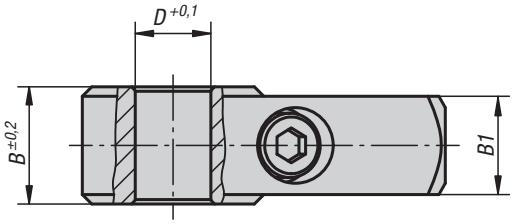
Order No.	D	D1	D2	B	H	H1	H2	L
K0397.05	M5	5	12	6	16	10	7	14,5
K0397.06	M6	6	16	7	19	12	8	15
K0397.08	M8	8	20	9	23	15	10	20
K0397.10	M10	10	28	12	28	18	11	25
K0397.12	M12	12	30	14	34	21	13,5	30
K0397.14	M14	14	36	16	37	23	15	35
K0397.16	M16	16	40	17	42	26	17	40
K0397.20	M20	18	50	22	52	32	21	50

Notes

Clamp hubs





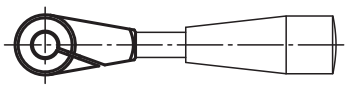


Material:
Carbon steel 1.1206.

Version:
Black oxidised.

Sample order:
K0376.1012

Note:
Clamp hubs can be quickly and easily attached to shafts, adjusted in the proper operating position and then locked. For secure transmission of torque, shaft tolerance should not exceed h11.
At fastening thread (D2), handles can be screwed on.

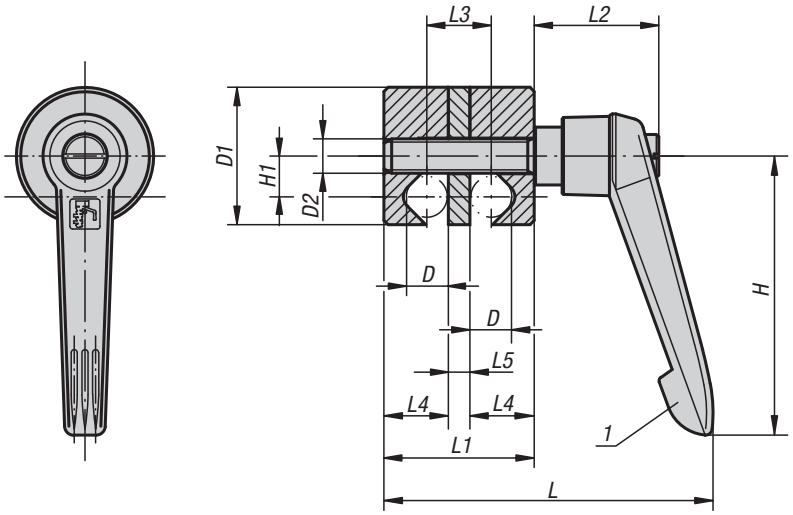


KIPP Clamp hubs

Order No.	D	D1	D2	D3	B	B1	L	T
K0376.0810	10	24	M8	10	15,5	13	36	11
K0376.0812	12	24	M8	10	15,5	13	36	11
K0376.1012	12	28	M10	12	17,5	15	41	14
K0376.1014	14	28	M10	12	17,5	15	41	14
K0376.1214	14	32	M12	14	19,5	17	45	16
K0376.1216	16	32	M12	14	19,5	17	45	16

Clamping joints





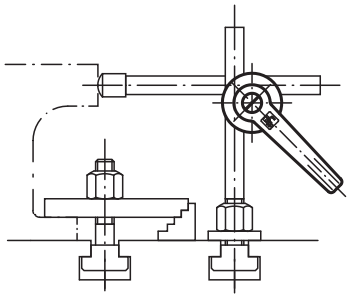
Material:
Clamping lever:
Handle fibreglass reinforced thermoplastic, black grey.
Steel parts:
grade 5.8.
Remaining components:
high-strength aluminium.

Version:
Steel parts black oxidised.
Aluminium nickel silver anodized.

Sample order:
K0133.03

Note:
Clamping joints are used to clamp round cross sections (bars, tubes, etc.) and are infinitely adjustable.
The simple design together with the adjustable clamping lever permits rapid clamping.

Drawing reference:
1) Clamping lever



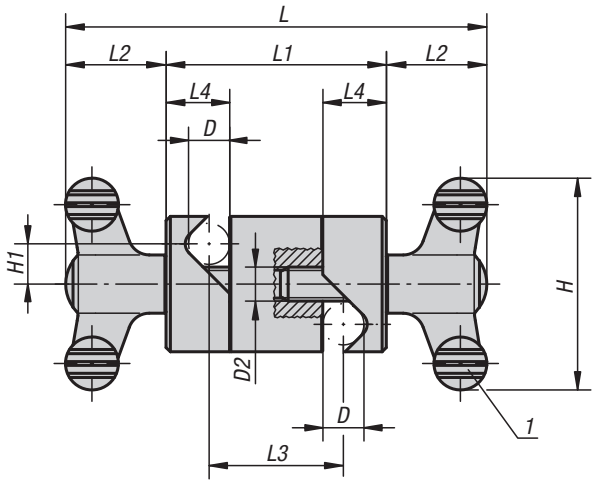
KIPP Clamping joints

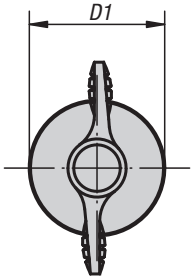
Order No.	Size	D	D1	D2	L	L1	L2	L3	L4	L5	H	H1
K0133.01	1	8	28	M8	72	31	29	13	13	5	65	8,5
K0133.02	2	10	32	M8	76	35	29	15	15	5	65	9,5
K0133.03	3	12	36	M8	81	40	29	18	17	6	65	10,5
K0133.04	4	16	45	M10	103	50	37,5	22	22	6	80	13,5
K0133.05	5	20	74	M10	131	70	42,5	30	30	10	95	22

Clamping joints

individually adjustable







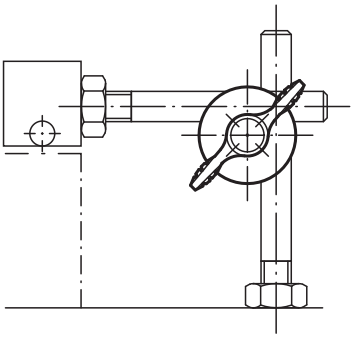
Material:
Wing grip:
grip black grey thermoplastic.
Screw steel 5.8.
Remaining components:
high-strength aluminium.

Version:
Steel parts blue-passivated.
Aluminium nickel silver anodized.

Sample order:
K0134.02

Note:
Clamping joints are used to clamp round cross sections (bars, tubes, etc.) and are individually and infinitely adjustable.
The simple design together with the wing grip permits rapid clamping.

Drawing reference:
1) wing grip

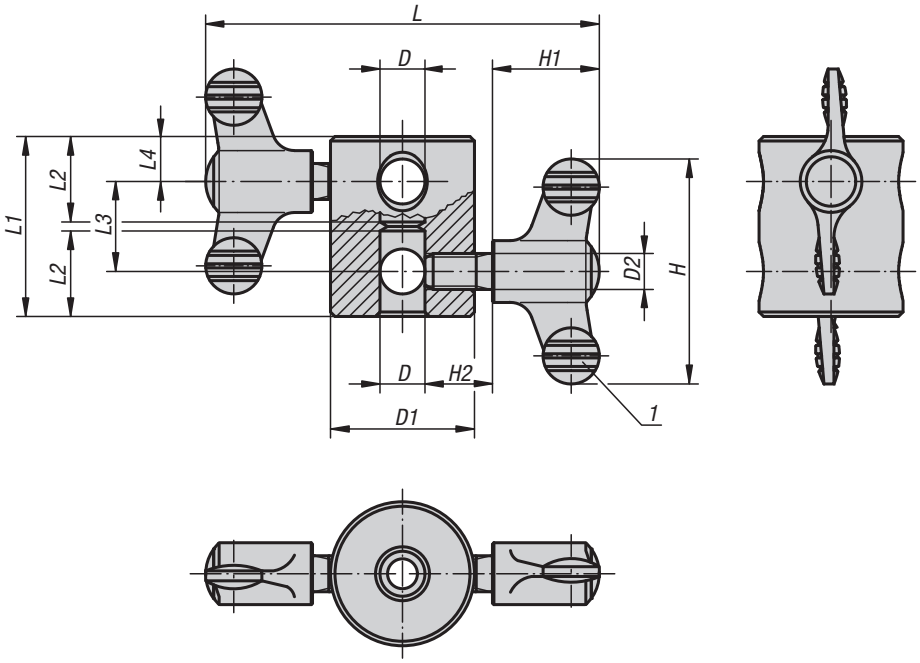


KIPP Clamping joints individually adjustable

Order No.	Size	D	D1	D2	L	L1	L2	L3	L4	H	H1
K0134.01	1	8	28	M8	90	42	24	24	13	50	8,5
K0134.02	2	10	32	M8	100	52	24	32	15	50	9,5
K0134.03	3	12	36	M8	104	56	24	34	17	50	10,5
K0134.04	4	16	45	M10	143,2	72	35,6	44	22	75	13,5
K0134.05	5	20	74	M10	173,2	102	35,6	62	30	75	22

Multiple connectors





Material:
Wing grip:
grip black grey thermoplastic.
Screw steel 5.8.
Body:
high-strength aluminium.

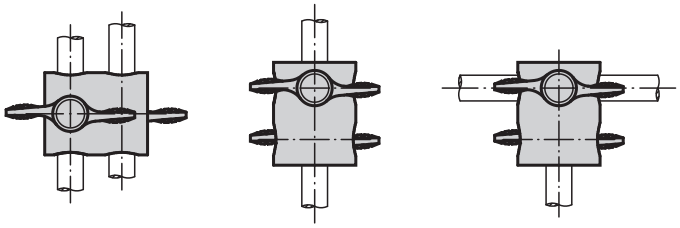
Version:
Steel parts blue-passivated.
Aluminium nickel silver anodized.

Sample order:
K0135.04

Note:
Multiple connectors are used to extend round cross sections (bars, tubes, etc.) in a coaxial or parallel arrangement.
By a parallel arrangement, a strengthening or stiffening of the construction can be achieved.
The bore system in the body also allows for the production of right-angled connections.

Drawing reference:
1) wing grip

Arrangement:



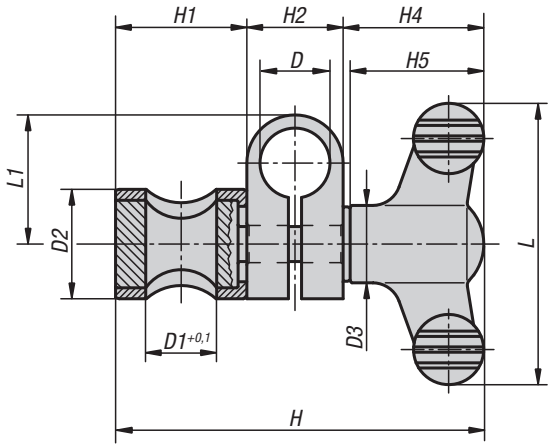
parallel coaxial right-angled

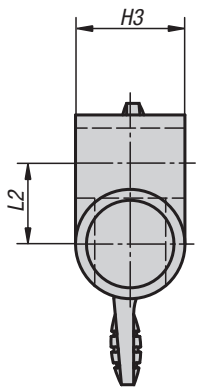
KIPP Multiple connectors

Order No.	Size	D	D1	D2	L	L1	L2	L3	L4	H	H1	H2
K0135.01	1	8	28	M8	86	36	17	20	8	50	24	15
K0135.02	2	10	32	M8	88	40	19	20	10	50	24	15
K0135.03	3	12	36	M8	90	44	21	20	12	50	24	15
K0135.04	4	16	45	M10	127,2	56	27	24	16	75	35,6	20

Clamping joints







Material:
Sleeve and pin steel.
Clamp block high-strength aluminium.
Wing grip black grey thermoplastic.

Version:
Sleeve and pin high-gloss chromed.
Clamp block black anodized.

Sample order:
K0136.1616

Note:
Infinitely adjustable.
Wing grip for rapid clamping.

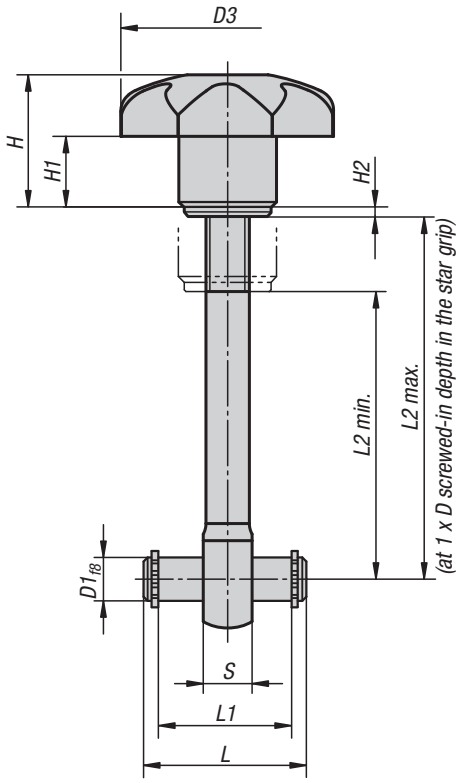
On request:
Different combinations diameters D and D1.

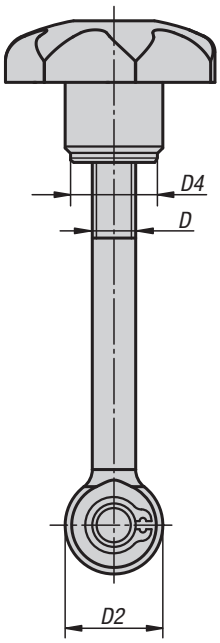
KIPP Clamping joints

Order No.	Size	D	D1	D2	D3	H	H1	H2	H3	H4	H5	L	L1	L2
K0136.0606	1	6	6	14	12	43,6	15	9	14	19,6	18	38	13	8,5
K0136.0808	2	8	8	16	14	54,6	17	12	16	25,6	24	50	18	12
K0136.1010	3	10	10	18	14	60,6	20	15	18	25,6	24	50	22	14,5
K0136.1212	4	12	12	20	21	77,2	23	17	20	37,2	35,6	75	24	15,5
K0136.1616	5	16	16	25	21	90,2	31	22	25	37,2	35,6	75	29,5	18,5
K0136.2020	6	20	20	30	21	98,2	36	25	30	37,2	35,6	75	30	17,5

Swing screws





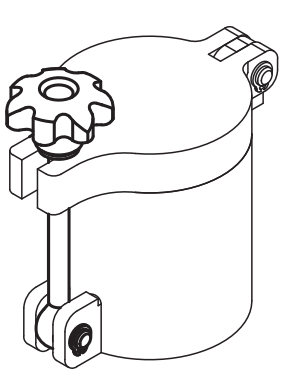


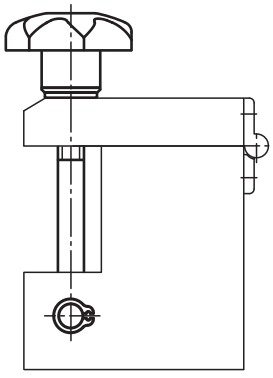
Material:
Star grip thermoplastic.
Bush steel.
Washer steel 140 HV.
Eye bolt steel grade 8.8.
Hinge pin steel 1.1181.

Version:
Star grip black.
Bush galvanised and blue passivated
Washer bright.
Eye bolt black oxidised.
Hinge pins tempered, ground and bright.

Sample order:
K0053.06050

Note:
The swing screws are supplied unassembled.
Suitable circlips are enclosed.





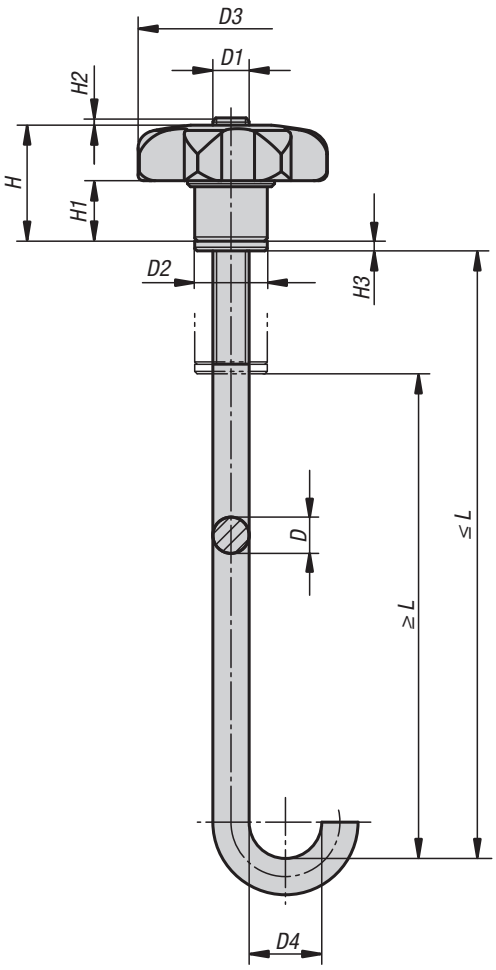
KIPP Swing screws

Order No.	D	D1	D2	D3	D4	H	H1	H2	L	L1	L2 min.	L2 max.	S
K0053.06050	M6	6	14	32	12	20	10	1,6	22	17	32	44	7
K0053.06075	M6	6	14	32	12	20	10	1,6	22	17	57	69	7
K0053.08050	M8	8	18	40	16	24	13	1,6	30	25	28	42	9
K0053.08075	M8	8	18	40	16	24	13	1,6	30	25	53	67	9
K0053.10075	M10	10	20	50	20	31	17	2	37	32	49	65	12
K0053.10100	M10	10	20	50	20	31	17	2	37	32	74	90	12

Hooks

with a quick-acting star grip



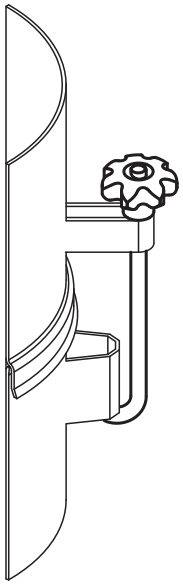


Material:
Hook steel 1.0718.
Quick-acting star grips thermoplastic.
Bush steel.
Washer steel 140 HV.

Version:
Hook and bush galvanized and blue passivated
Quick-acting star grips black.
Washer bright.

Sample order:
K0054.05075

Note:
The assembly is delivered loose.



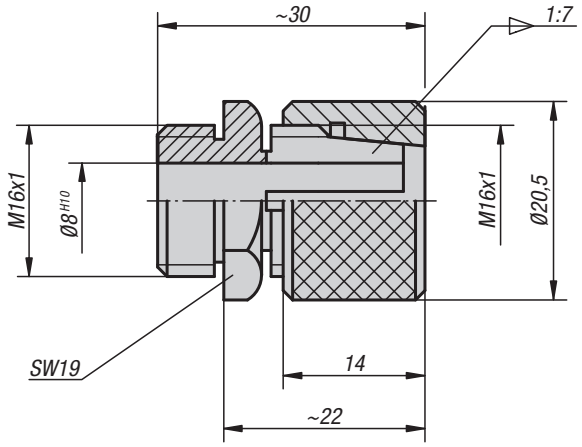
KIPP Hooks with a quick-acting star grip

Order No.	D	D1	D2	D3	D4	H	H1	H2	H3	L min.	L max.	Clamping force F (kN)
K0054.05075	5	M5	10	25	10	16,6	8	0,5	1	60	75	1
K0054.05100	5	M5	10	25	10	16,6	8	0,5	1	85	100	1
K0054.06100	6	M6	12	32	12	20,6	10	1	1,6	80	100	1,5
K0054.06125	6	M6	12	32	12	20,6	10	1	1,6	105	125	1,5
K0054.08125	8	M8	16	40	16	24,5	13	1,6	1,6	100	125	2
K0054.08140	8	M8	16	40	16	24,5	13	1,6	1,6	115	140	2

Dial gauge collets

for Ø8 shafts

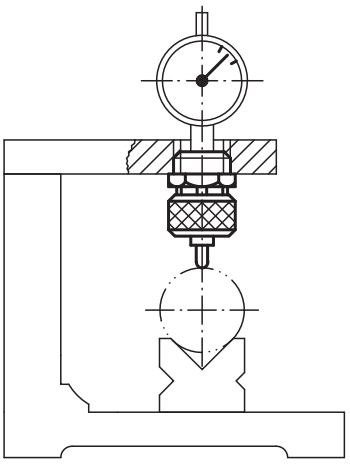




Material:
Carbon steel.

Version:
Black oxidised.
Collet tempered.

Sample order:
K0629.08



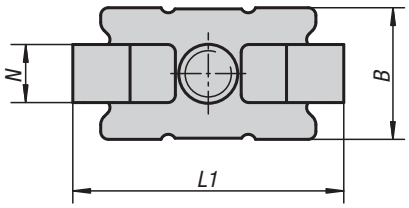
KIPP Dial gauge collets for Ø8 shafts

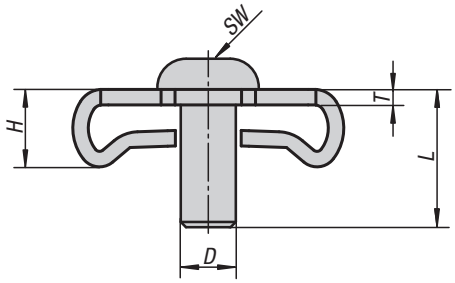
Order No.	Dimensions
K0629.08	see drawing

Connecting sets standard

Type I







1.



2.



3.



Material:
Steel.

Version:
galvanized.

Sample order:
K1031.06

Note:
The connecting sets are used for connecting two aluminium profiles at right angles. The connection is non-rotating. For larger profiles several connecting sets can be mounted on the end for greater strength

Low workload. Cut a thread in the end face core hole. Drill a through hole for tightening the screw in the opposing profile.

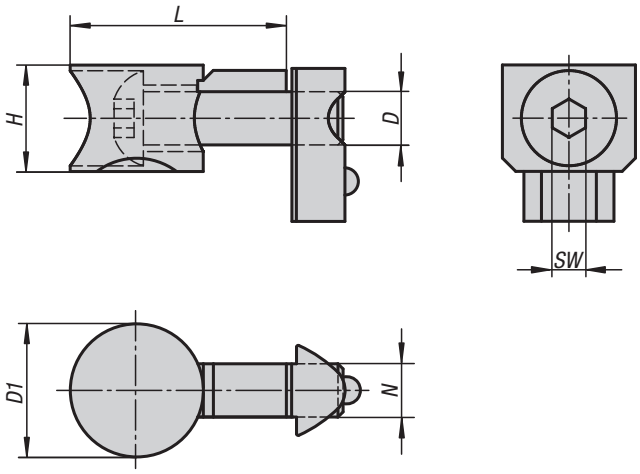
KIPP Connecting sets standard Type I

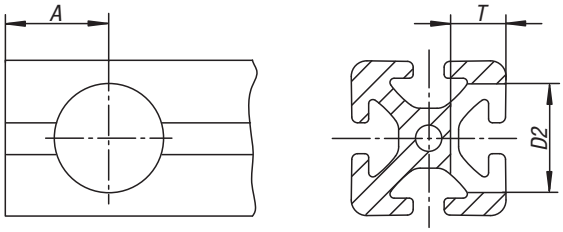
Order No.	Type	Slot width	D	B	H	L	L1	N	T	SW
K1031.06	I	6	M6	13	7,3	14	27,5	6	2	4
K1031.08	I	8	M8	17	9,5	20	35	8	2	5

Connecting sets universal

Type I







Material:
Connector die-cast zinc.
Screw and slot nuts steel.

Version:
galvanized.

Sample order:
K1032.06

Note:
The connecting sets are used for connecting two aluminium profiles at right angles. They allow a free positioning of profiles. The connection is non-rotating (the rotation lock can be broken off). For larger profiles several connecting sets can be mounted on the end for greater strength. Retrofitting into existing constructions is possible.

Low workload. The connecting set requires only one hole drilled in one end.



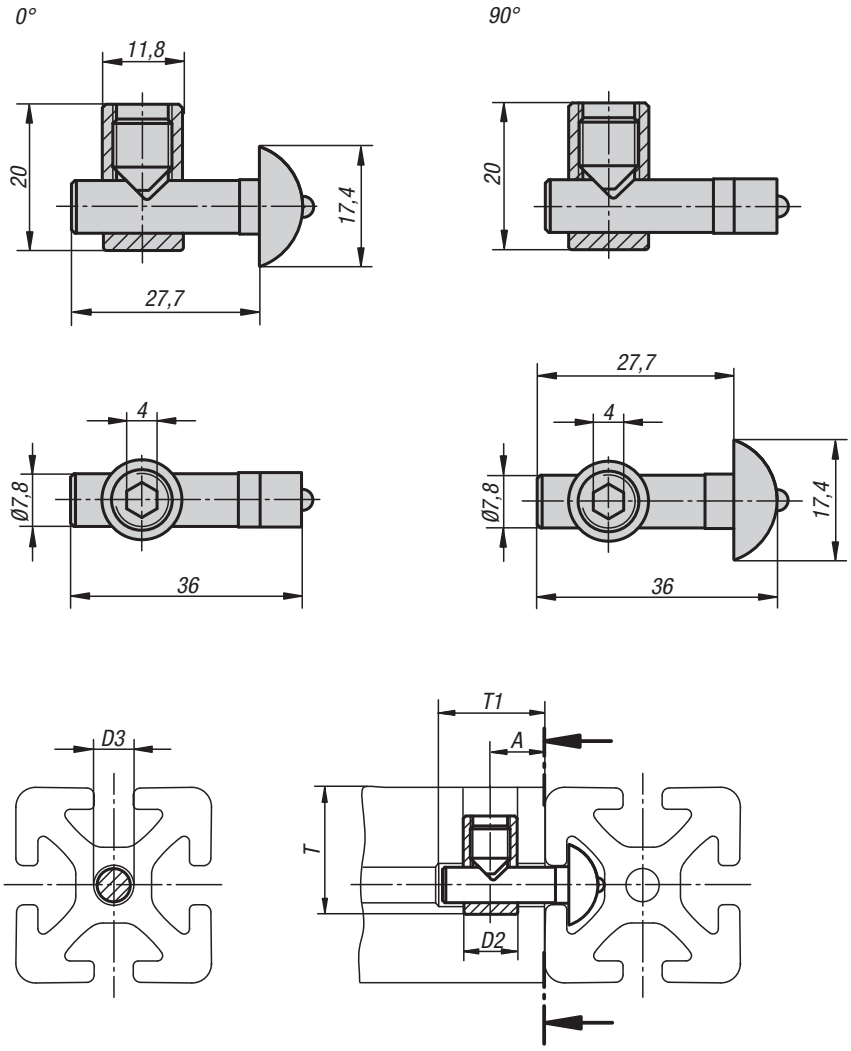
KIPP Connecting sets universal Type I

Order No.	Type	Slot width	D	D1	H	L	N	SW	A	D2	T
K1032.06	I	6	M6	16	12,5	25,2	6,2	4	15	16	12,7
K1032.08	I	8	M8	20	16	33,5	8	5	20	20	16

Connecting sets central

Type I





Material:
Steel.

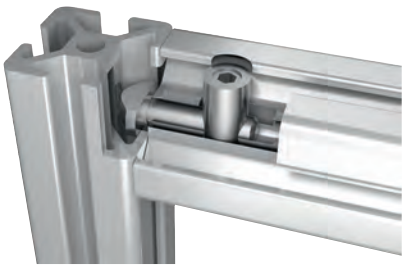
Version:
galvanized.

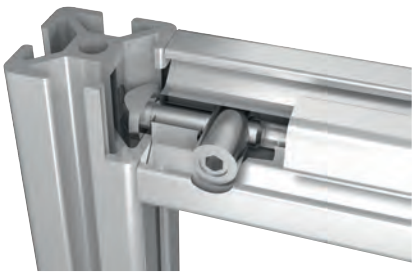
Sample order:
K1033.0800

Note:
The connecting sets are used to connect two aluminium profiles at right angles. They allow free position of the profiles. The profile slots positioned at right-angles to each other remain free. Panel elements can be positioned in the profile grooves without additional machining.

Due to the reduced clamping force and ommited rotation locks, these connecting sets should only be used in combination with panel elements and lightly loaded constructions.

Low workload. To assemble a hole must be drilled into one of the profiles and the core hole must be drilled out.





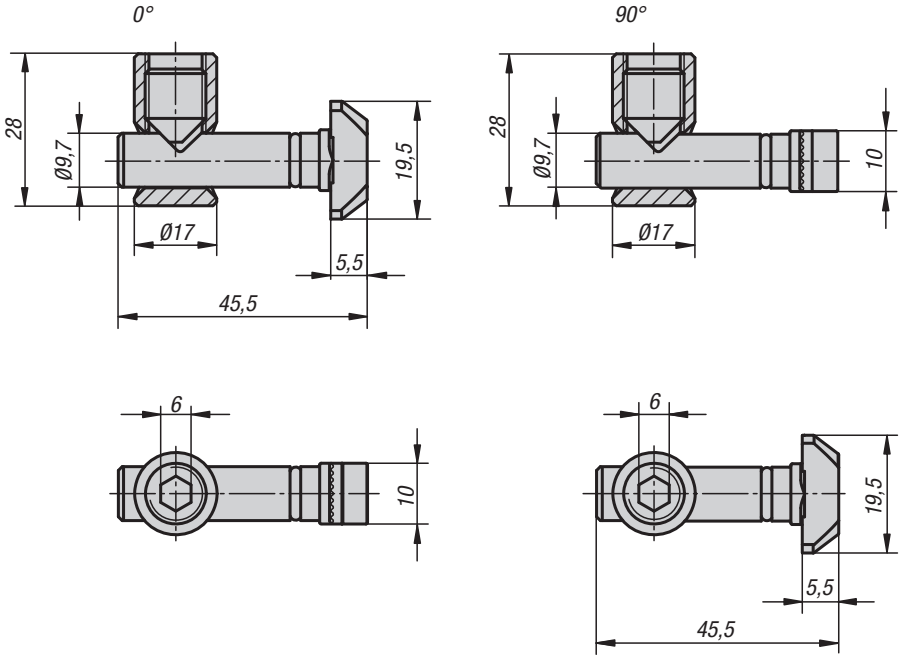
KIPP Connecting sets central Type I

Order No.	Type	Slot width	Version	A	D2	D3	T	T1
K1033.0800	I	8	0°	15	12	8	28	28
K1033.0890	I	8	90°	15	12	8	28	28

Connecting sets central

Type B





Material:
Steel.

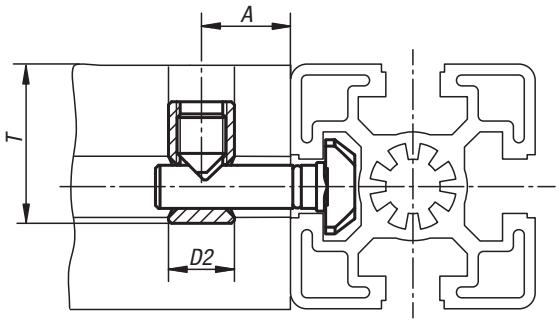
Version:
galvanized.

Sample order:
K1034.1000

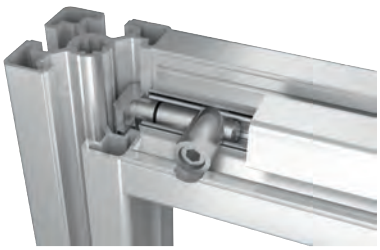
Note:
The connecting sets are used to connect two aluminium profiles at right angles. They allow free position of the profiles. The profile slots positioned at right-angles to each other remain free. Panel elements can be positioned in the profile slots without additional machining.

Due to the reduced clamping force and omitted rotation locks, these connecting sets should only be used in combination with panel elements and lightly loaded constructions.

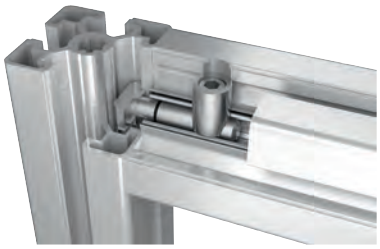
Low workload. To assemble a hole must be drilled into one of the profiles. The D2 hole can also be drilled through.



0°



90°



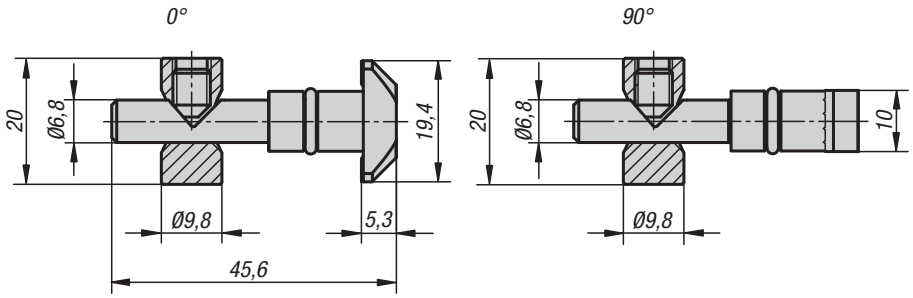
KIPP Connecting sets central Type B

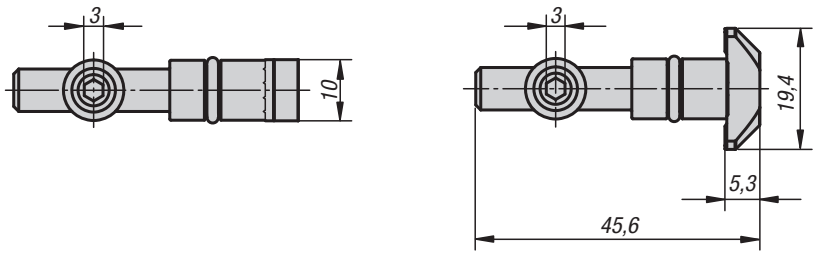
Order No.	Type	Slot width	Version	A	D2	T for profile 40	T for profile 45	T for profile 50	T for profile 60
K1034.1000	B	10	0°	22,5	17	31	34	36	41
K1034.1090	B	10	90°	22,5	17	31	34	36	41

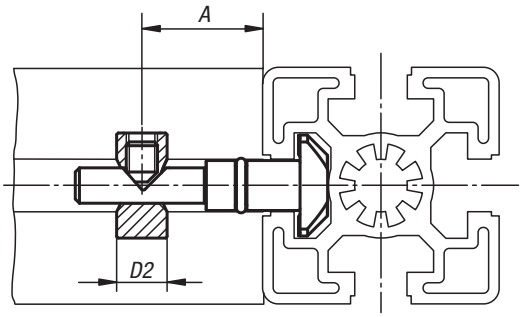
Connecting sets central

Type B









Material:
Steel.

Version:
galvanized.

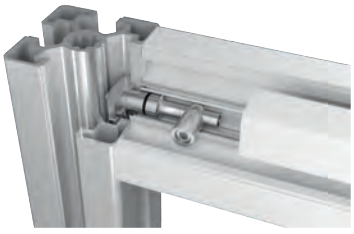
Sample order:
K1035.1000

Note:
The connecting sets are used to connect two aluminium profiles at right angles. They allow free position of the profiles. The profile slots positioned at right-angles to each other remain free. Panel elements can be positioned in the profile slots without additional machining.

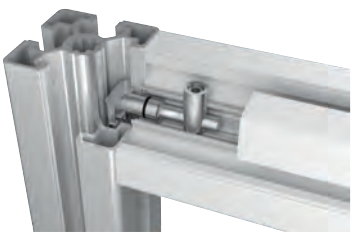
Due to the reduced clamping force and omitted rotation locks, these connecting sets should only be used in combination with panel elements and lightly loaded constructions.

Low workload. To assemble a hole must be drilled into one of the profiles. Due to the reduced pin diameter the slot is not damaged and can be completely covered with a cover profile.

0°



90°



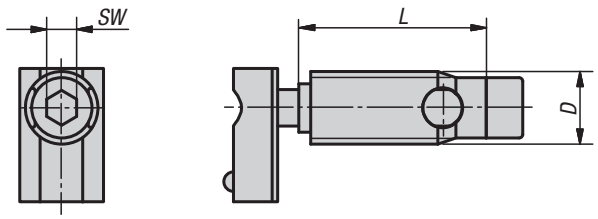
KIPP Connecting sets central Type B

Order No.	Type	Slot width	Version	A	D2
K1035.1000	B	10	0°	22,5	9,8
K1035.1090	B	10	90°	22,5	9,8

Connecting sets automatic

Type I





Material:
Steel.

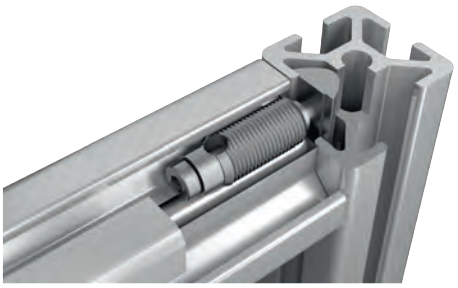
Version:
galvanized.

Sample order:
K1036.06

Note:
The connecting sets are used to connect two aluminium profiles at right angles. They allow free position of the profiles.

No profile machining is necessary. The connector is screwed into the profile slot from the front (left-hand thread). The connector has a self-tapping thread. The use of lubricants is recommended.

Connecting sets automatic should always be used opposite each other in pairs.



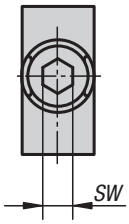
KIPP Connecting sets automatic Type I

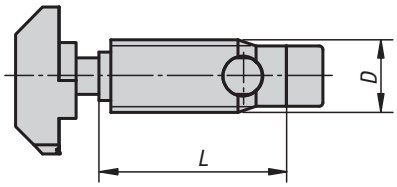
Order No.	Type	Slot width	D	L	SW
K1036.06	I	6	10	27	4
K1036.08	I	8	12	31	5

Connecting sets automatic

Type B







Material:
Steel.

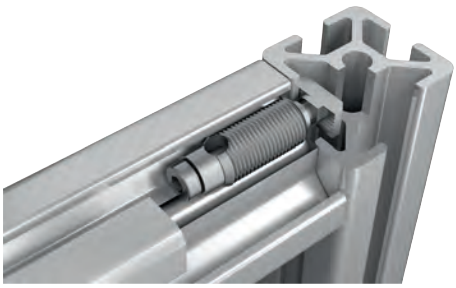
Version:
galvanized.

Sample order:
K1037.1012

Note:
The connecting sets are used to connect two aluminium profiles at right angles. They allow free position of the profiles.

No profile machining is necessary. The connector is screwed into the profile slot from the front (left-hand thread). The connector has a self-tapping thread. The use of lubricants is recommended.

Connecting sets automatic should always be used opposite each other in pairs.



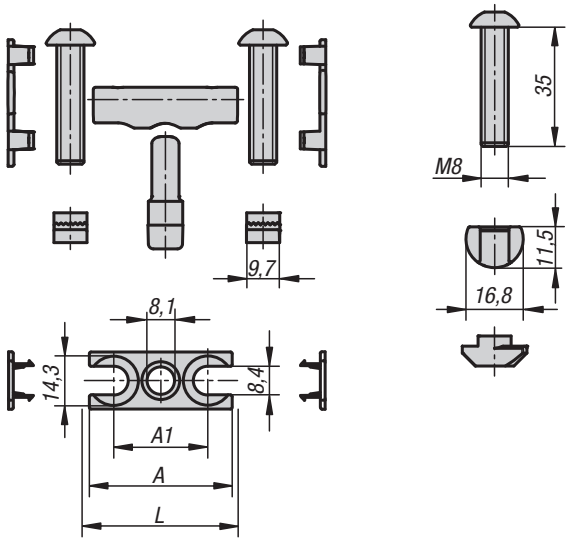
KIPP Connecting sets automatic Type B

Order No.	Type	Slot width	D	L	SW
K1037.1012	B	10	12	35	5
K1037.1013	B	10 light	13	35	5

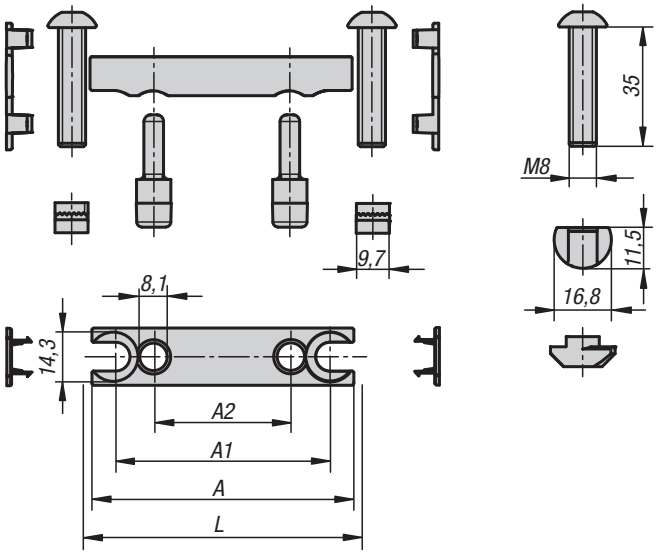
Pin connector sets

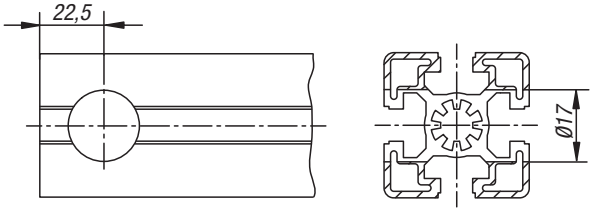
Type B

-1040 / -1045 / -1060



-1080 / -1090







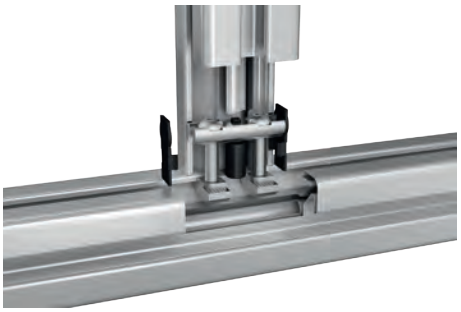
Material:
Pins, screws and T-nuts steel.
Locating pin und end caps polyamide, fibreglass reinforced.

Version:
Pins, screws and T-nuts galvanized.
Locating pin and end caps black.

Sample order:
K1038.1040

Note:
The connecting sets are used for connecting two aluminium profiles at right angles. They allow free positioning of the profiles. Suitable for high loads and absorbing torsional forces.

Low workload. The connecting set only requires one 17 mm hole drilled one side.



KIPP Pin connector sets Type B

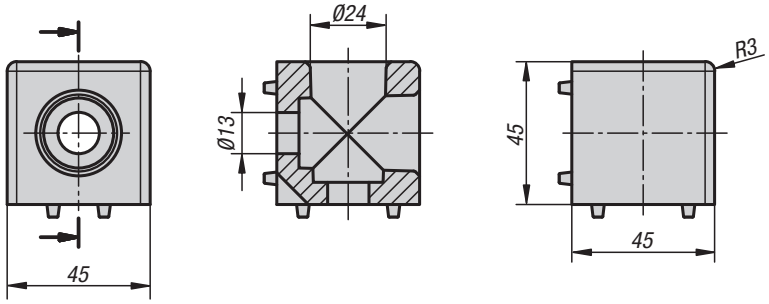
Order No.	Type	Slot width	A	A1	A2	L
K1038.1040	B	10	37	23	-	40
K1038.1045	B	10	42	28	-	45
K1038.1060	B	10	57	43	-	60
K1038.1080	B	10	77	63	40	80
K1038.1090	B	10	87	73	45	90

Cube connector sets

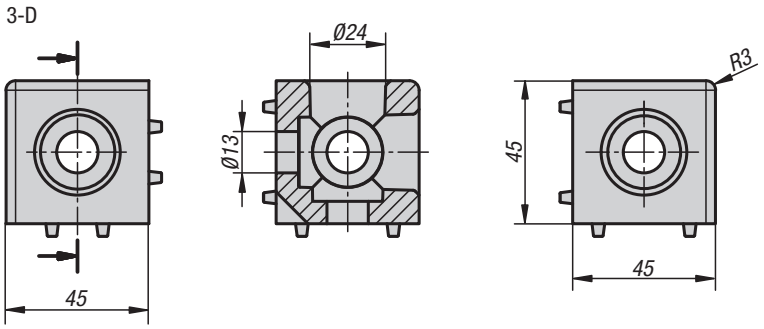
Type B



2-D



3-D



Material:
Cube die-cast aluminium.
Screws steel.
End caps polyamide.

Version:
Aluminium bright.
Screws with self-tapping thread.
End cap black.

Sample order:
K1039.102

Note:
The cube connector can be used to connect two or three profiles to each other by the end faces. The cube connectors have guide lugs that ensure a perfect and secure installation. Fastening to the profile is carried out by self-tapping screws. The open holes can be closed off with the end caps.

The profile slots positioned at right-angles to each other remain free. Panel elements can be positioned in the profile slots without additional machining.



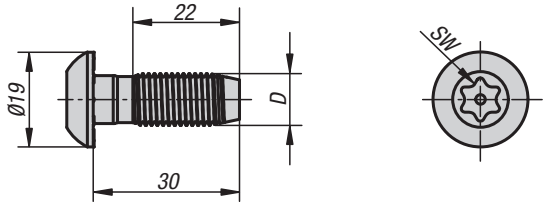
KIPP Cube connector sets Type B

Order No.	Type	Slot width	Version
K1039.102	B	10	2-D
K1039.103	B	10	3-D

Central screw

Type B



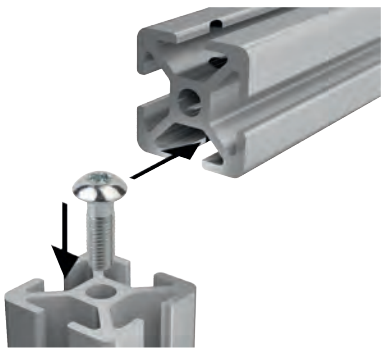


Material:
Steel.

Version:
galvanized.

Sample order:
K1040.1012

Note:
Self-tapping screw for end face core hole. Ideal for fastenings without an angle or additional connectors not exposed to high loads.

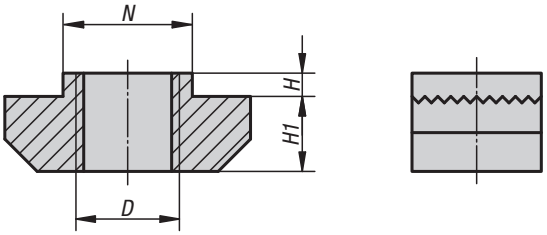


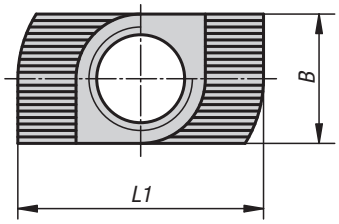
KIPP Central screw Type B

Order No.	Type	Slot width	D	SW
K1040.1012	B	10	S12	T50

T-nuts





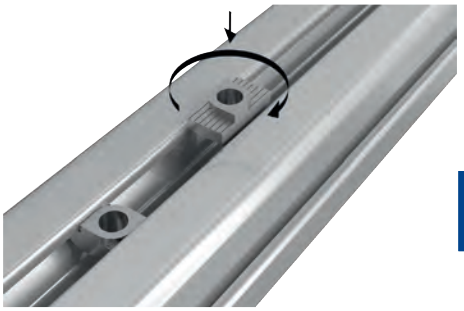


Material:
Steel.

Version:
galvanized.

Sample order:
K1028.0804015

Note:
Universal fastening element. The T-nut is twisted into the profile slot and so can be subsequently inserted into existing systems. The serrations break through the anodized film and creates a secure, electrical conductive connection.

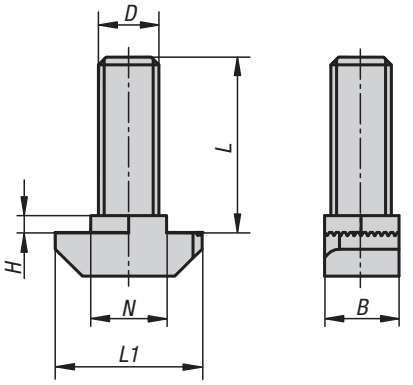


KIPP T-nuts

Order No.	Type	Slot width	D	N	B	H	H1	L1
K1028.0804015	B	8	M4	7,7	7,7	1,5	4,5	16
K1028.0805015	B	8	M5	7,7	7,7	1,5	4,5	16
K1028.0806015	B	8	M6	7,7	7,7	1,5	4,5	16
K1028.1004030	B	10	M4	9,7	9,7	3	5,8	19
K1028.1005017	-	10	M5	9,7	9,7	1,5	5,8	19
K1028.1005030	B	10	M5	9,7	9,7	3	5,8	19
K1028.1006017	-	10	M6	9,7	9,7	1,5	5,8	19
K1028.1006030	B	10	M6	9,7	9,7	3	5,8	19
K1028.1008017	-	10	M8	9,7	9,7	1,5	5,8	19
K1028.1008030	B	10	M8	9,7	9,7	3	5,8	19

Hammer-head screws





Material:
Steel.

Version:
galvanized.

Sample order:
K1029.0806015X16

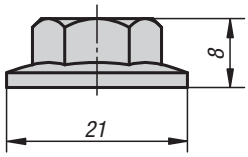
Note:
Universal fastening element. The hammer-headed screw is twisted into the profile slot and so can mounted into an existing systems at a later date. The serrations break through the anodized film and creates a secure, electrical conductive connection.

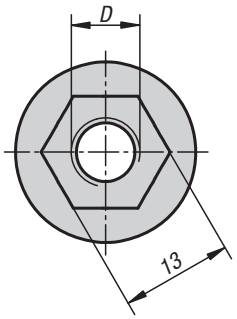
KIPP Hammer-head screws

Order No.	Type	Slot width	B	D	H	L	L1	N
K1029.0806015X16	B	8	7,7	M6	1,5	16	16	7,7
K1029.0806015X20	B	8	7,7	M6	1,5	20	16	7,7
K1029.0806015X25	B	8	7,7	M6	1,5	25	16	7,7
K1029.1008030X20	B	10	9,7	M8	3	20	19	9,7
K1029.1008030X25	B	10	9,7	M8	3	25	19	9,7
K1029.1008030X30	B	10	9,7	M8	3	30	19	9,7
K1029.1008030X40	B	10	9,7	M8	3	40	19	9,7
K1029.1008030X60	B	10	9,7	M8	3	60	19	9,7

K1030

Hexagon nuts with flange







Material:
Steel.

Version:
galvanized.

Sample order:
K1030.08

Note:
Nut with a large collar. Ideal together with a hammer-head screw.

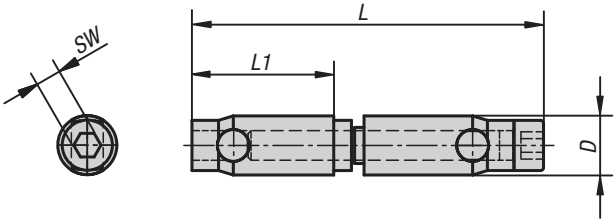
KIPP Hexagon nuts with flange

Order No.	Type	Slot width	D
K1030.08	B	10	M8

K1041

Butt connector sets automatic

Type I





Material:
Steel.

Version:
galvanized.

Sample order:
K1041.06

Note:
The connecting sets are used to connect two aluminum profiles of the same series from the front.

No machining of the profile is necessary. The connector is screwed into the profile slot from the front (connector with through hole left-hand thread. Connector with internal thread right-hand thread). The connector has a self-tapping thread. The use of lubricants is recommended.

Automatic connecting sets should always be used in pairs. More pairs are required for large profiles and loads.

KIPP Butt connector sets, automatic, Type I

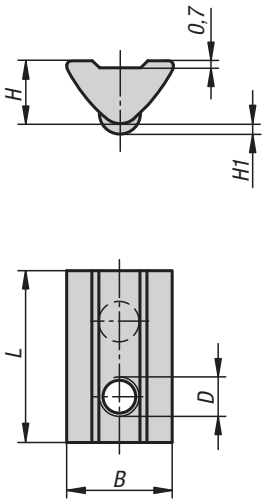
Order No.	Type	Slot width	D	L	L1	SW
K1041.06	I	6	10	60	24	4
K1041.08	I	8	12	69	27	5

Slot nuts

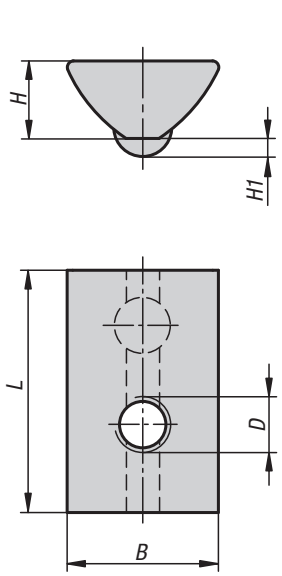
twist-in Type I



Ⓐ



Ⓑ



Material:
Steel.

Version:
galvanized.

Sample order:
K1023.0604

Note:
The slot nut is twisted into the profile slot and so can be subsequently inserted into existing systems. The spring-loaded ball allows the nut to be fixated anywhere in the profile slot.



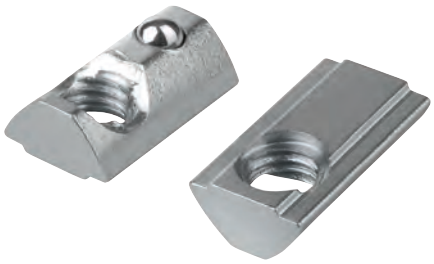


KIPP Slot nuts twist-in Type I

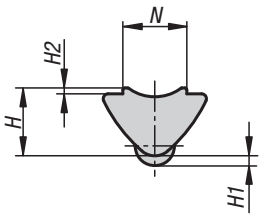
Order No.	Type	Slot width	Form	D	B	H	H1	L
K1023.0604	I	6	A	M4	10,5	6,3	1	17
K1023.0605	I	6	A	M5	10,5	6,3	1	17
K1023.0606	I	6	A	M6	10,5	6,3	1	17
K1023.0804	I	8	B	M4	13,7	7	1,7	22
K1023.0805	I	8	B	M5	13,7	7	1,7	22
K1023.0806	I	8	B	M6	13,7	7	1,7	22
K1023.0808	I	8	B	M8	13,7	7	1,7	22

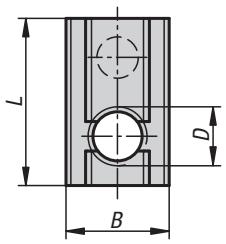
Slot nuts

twist-in, keyed Type I

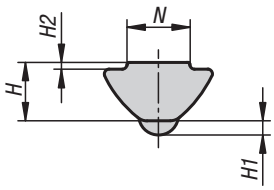


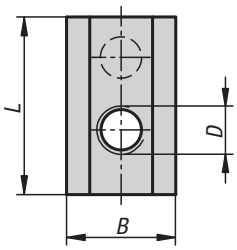
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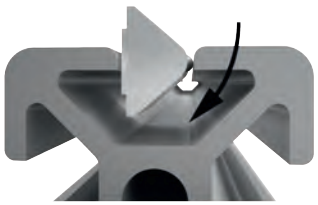


Material:
Steel.

Version:
galvanized.

Sample order:
K1024.0604

Note:
The slot nut is twisted into the profile slot and so can be subsequently inserted into existing systems. The spring-loaded ball allows the nut to be fixated anywhere in the profile slot. The key centres the nut in the profile slot and keeps it neatly seated.





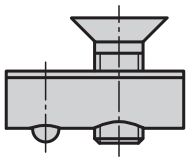
KIPP Slot nuts twist-in, keyed Type I

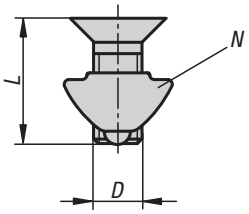
Order No.	Type	Slot width	Form	D	N	B	H	H1	H2	L
K1024.0604	I	6	A	M4	6,5	10,5	6,9	1	0,6	17
K1024.0605	I	6	A	M5	6,5	10,5	6,9	1	0,6	17
K1024.0606	I	6	A	M6	6,5	10,5	6,9	1	0,6	17
K1024.0803	I	8	B	M3	7,8	13,5	7,2	1,75	0,8	22
K1024.0804	I	8	B	M4	7,8	13,5	7,2	1,75	0,8	22
K1024.0805	I	8	B	M5	7,8	13,5	7,2	1,75	0,8	22
K1024.0806	I	8	B	M6	7,8	13,5	7,2	1,75	0,8	22
K1024.0808	I	8	B	M8	7,8	13,5	7,2	1,75	0,8	22

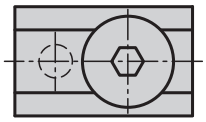
Fastening sets

for straps and angles









Material:
Steel.

Version:
galvanized.

Sample order:
K1044.06

Note:
Consists of two DIN 7991 countersunk screws and two slot nuts.

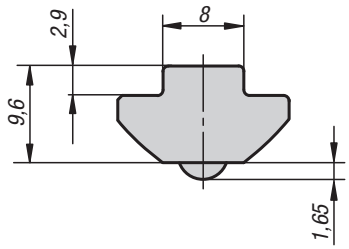
KIPP Fastening sets for straps and angles

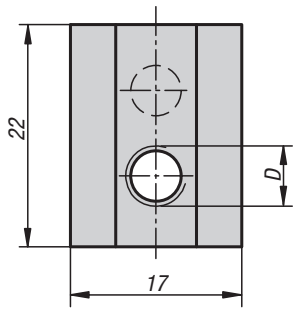
Order No.	Type	Slot width	Version	D	L
K1044.06	I	6	Slot key without step	M6	10
K1044.08	I	8	Slot key with step	M8	14

Slot keys

heavy duty Type I







Material:
Steel.

Version:
galvanized.

Sample order:
K1025.0804

Note:
Suitable for high load connections. Since the key passes to the slot form of the profile, forces are transferred to the profile. The total height allows more threads to be engaged. The slot key can only be inserted into the profile slot from the end. The spring-loaded ball allows the slot key to be fixated anywhere in the profile slot.

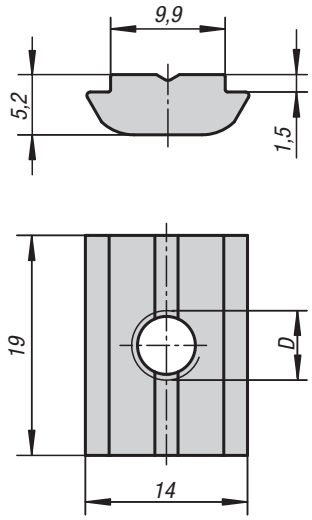
KIPP Slot keys heavy duty Type I

Order No.	Type	Slot width	D
K1025.0804	I	8	M4
K1025.0805	I	8	M5
K1025.0806	I	8	M6
K1025.0808	I	8	M8

Slot nuts

twist-in Type B





Material:
Steel.

Version:
galvanized.

Sample order:
K1026.1004

Note:
The slot nut is twisted into the profile slot and so can be subsequently inserted into existing systems.

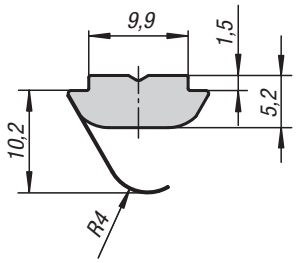
KIPP Slot nuts twist-in Type B

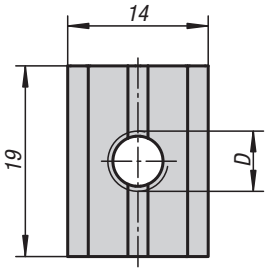
Order No.	Type	Slot width	D
K1026.1004	B	10	M4
K1026.1005	B	10	M5
K1026.1006	B	10	M6
K1026.1008	B	10	M8

Slot nuts

twist-in with spring Type B







Material:
Steel.

Version:
galvanized.

Sample order:
K1027.1004

Note:
The slot nut is twisted into the profile slot and so can be subsequently inserted into existing systems. The spring allows the nut to be fixated anywhere in the profile slot.

KIPP Slot nuts twist-in with spring Type B

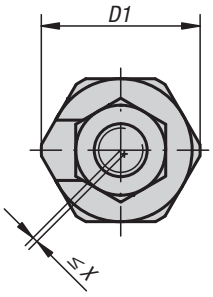
Order No.	Type	Slot width	D
K1027.1004	B	10	M4
K1027.1005	B	10	M5
K1027.1006	B	10	M6
K1027.1008	B	10	M8

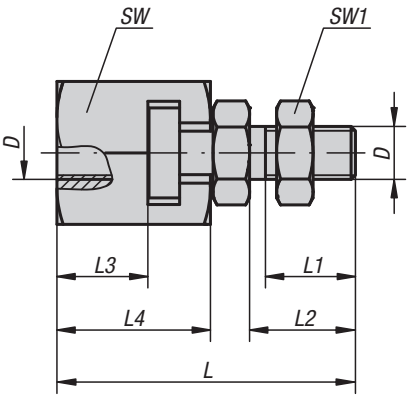
Joints



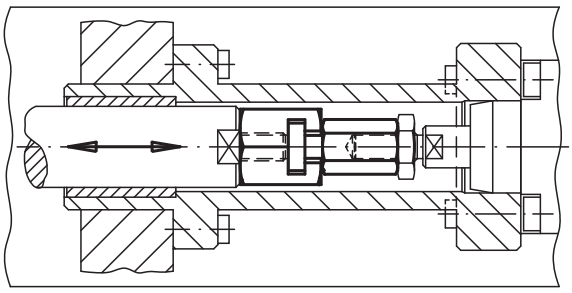
Quick-fit couplings

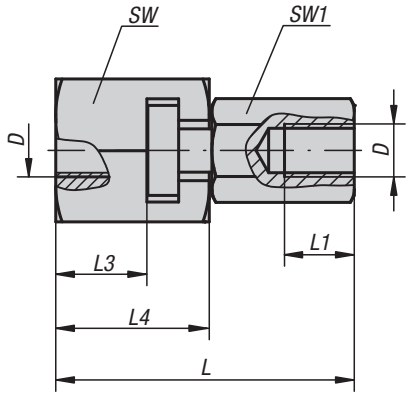
with radial offset compensation











Material:
Coupling part and claw in steel.
Nut (DIN 439) in steel, grade 8.8.

Version:
Coupling part and claw tempered and phosphated.
Nut steel, black oxidised.

Sample order:
K0709.16

Note:
Quick-fit couplings with radial offset compensation for multiple applications, e.g. as a link between a piston rod and a linear-movement unit. Assembly and disassembly of this simple, solid and two-part coupling is carried out by means of a T-slot; a manual re-adjustment is not necessary. The quick-fit coupling can be linked to all commonly used pneumatic and hydraulic cylinders via the connecting thread.

The quick-fit coupling does not transmit any torque.

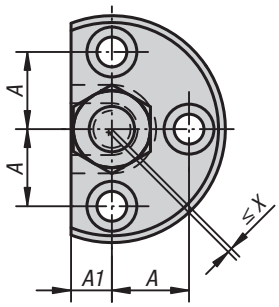
KIPP Quick-fit couplings with radial offset compensation

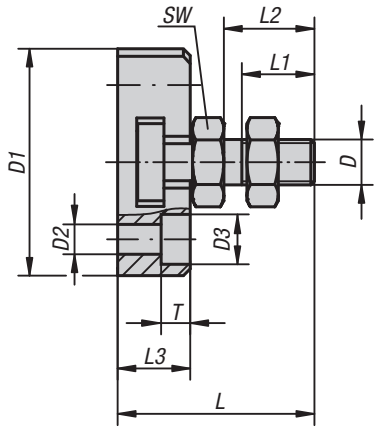
Order No.	Version	D	D1	L	L1 min.	L2	L3 min.	L4	SW	SW1	radial offset compensation X max.	Max. permissible tensile and compressive stress kN
K0709.06	internal thread	M6	21	37,5	11	-	9	18	19	10	0,6	2,5
K0709.08	internal thread	M8	26	45	13,5	-	11,5	22,5	24	13	0,7	4,5
K0709.10	internal thread	M10	30	56,2	15	-	16	29	27	17	0,7	6,5
K0709.101	internal thread	M10x1,25	30	56,2	15	-	16	29	27	17	0,7	6,5
K0709.12	internal thread	M12	32,5	66,7	17,5	-	17	34	30	19	0,8	10
K0709.121	internal thread	M12x1,25	32,5	66,7	17,5	-	17	34	30	19	0,8	10
K0709.16	internal thread	M16	39	83	22	-	23	42	36	24	1	18
K0709.161	internal thread	M16x1,5	39	83	22	-	23	42	36	24	1	18
K0709.20	internal thread	M20	44	93,5	25	-	23,5	45,5	41	30	1	30
K0709.201	internal thread	M20x1,5	44	93,5	25	-	23,5	45,5	41	30	1	30
K0709.0614	external thread	M6	21	37,5	11	14	9	18	19	10	0,6	2,5
K0709.0817	external thread	M8	26	45	13,5	17	11,5	22,5	24	13	0,7	4,5
K0709.1020	external thread	M10	30	56,2	16	20	16	29	27	17	0,7	6,5
K0709.10201	external thread	M10x1,25	30	56,2	16	20	16	29	27	17	0,7	6,5
K0709.1225	external thread	M12	32,5	66,7	21	25	17	34	30	19	0,8	10
K0709.12251	external thread	M12x1,25	32,5	66,7	21	25	17	34	30	19	0,8	10
K0709.1630	external thread	M16	39	83	25	30	23	42	36	24	1	18
K0709.16301	external thread	M16x1,5	39	83	25	30	23	42	36	24	1	18
K0709.2035	external thread	M20	44	93,5	29	35	23,5	45,5	41	30	1	30
K0709.20351	external thread	M20x1,5	44	93,5	29	35	23,5	45,5	41	30	1	30

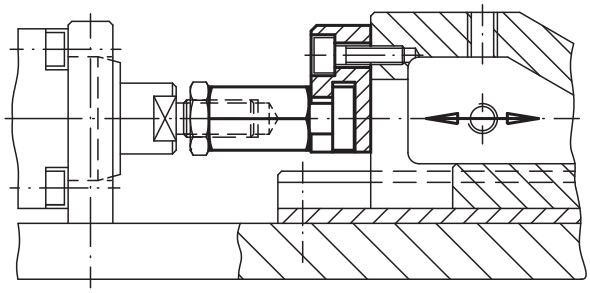
Quick-fit couplings

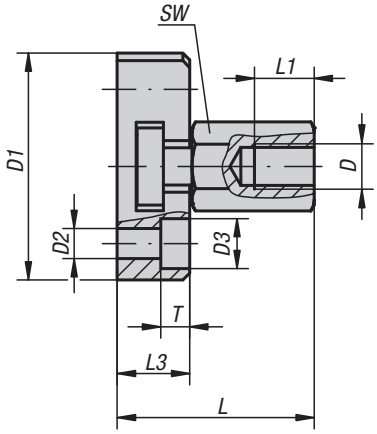
with radial offset compensation and mounting flange











Material:
Coupling part and steel flange.
Nut (DIN 439), grade 8.8.

Version:
Coupling part and flange tempered and phosphated.
Nut black oxidised.

Sample order:
K0710.20351

Note:
Space saving quick-fit couplings with radial offset compensation suitable for multiple applications, e.g. as a link between a piston rod and a linear-movement unit. Assembly and disassembly of this simple, solid and two-part coupling is with a T-slot, a manual re-adjustment is not necessary. The quick-fit coupling can be linked to all commonly used pneumatic and hydraulic lifting cylinders via the connecting thread.

The quick-fit coupling does not transmit any torque.

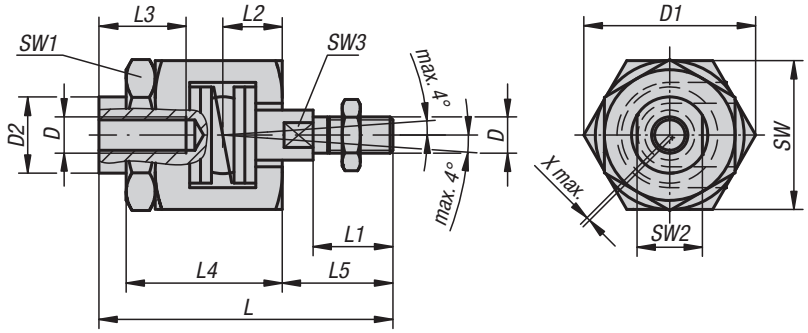
KIPP Quick-fit couplings with radial offset compensation and mounting flange

Order No.	Version	D	D1	D2	D3	A	A1	L	L1 min.	L2	L3	T	SW	radial offset compensation X max.	Max. permissible tensile and compressive stress kN
K0710.06	internal thread	M6	42	5,5	10	14	7	30,5	11	-	11	5,4	10	0,6	2,5
K0710.08	internal thread	M8	48	6,6	11	16	8	35,5	13,5	-	13	6,4	13	0,7	4,5
K0710.10	internal thread	M10	50	6,6	11	17	9	43,2	15	-	16	6,4	17	0,7	6,5
K0710.101	internal thread	M10x1,25	50	6,6	11	17	9	43,2	15	-	16	6,4	17	0,7	6,5
K0710.12	internal thread	M12	55	6,6	11	19	10	53,2	17,5	-	20,5	6,4	19	0,8	10
K0710.121	internal thread	M12x1,25	55	6,6	11	19	10	53,2	17,5	-	20,5	6,4	19	0,8	10
K0710.16	internal thread	M16	65	9	15	22,5	12,5	64	22	-	23	8,5	24	1	18
K0710.161	internal thread	M16x1,5	65	9	15	22,5	12,5	64	22	-	23	8,5	24	1	18
K0710.20	internal thread	M20	80	11	18	28	17	74	25	-	26	10	30	1	30
K0710.201	internal thread	M20x1,5	80	11	18	28	17	74	25	-	26	10	30	1	30
K0710.0614	external thread	M6	42	5,5	10	14	7	30,5	11	14	11	5,4	10	0,6	2,5
K0710.0817	external thread	M8	48	6,6	11	16	8	35,5	13,5	17	13	6,4	13	0,7	4,5
K0710.1020	external thread	M10	50	6,6	11	17	9	43,2	16	20	16	6,4	17	0,7	6,5
K0710.10201	external thread	M10x1,25	50	6,6	11	17	9	43,2	16	20	16	6,4	17	0,7	6,5
K0710.1225	external thread	M12	55	6,6	11	19	10	53,2	21	25	20,5	6,4	19	0,8	10
K0710.12251	external thread	M12x1,25	55	6,6	11	19	10	53,2	21	25	20,5	6,4	19	0,8	10
K0710.1630	external thread	M16	65	9	15	22,5	12,5	64	25	30	23	8,5	24	1	18
K0710.16301	external thread	M16x1,5	65	9	15	22,5	12,5	64	25	30	23	8,5	24	1	18
K0710.2035	external thread	M20	80	11	18	28	17	74	29	35	26	10	30	1	30
K0710.20351	external thread	M20x1,5	80	11	18	28	17	74	29	35	26	10	30	1	30

Quick-fit couplings

with angular and radial offset compensation





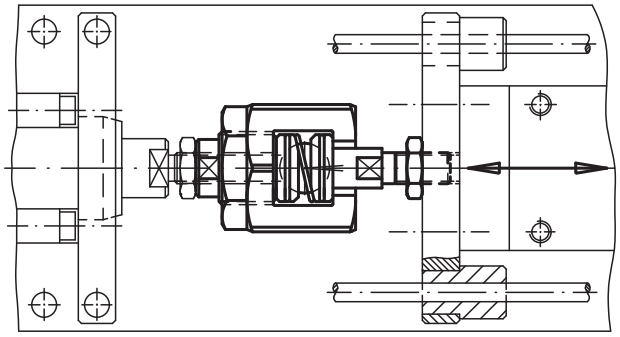
Material:
Coupling part carbon steel.
Claw and seat steel.
Nut carbon steel.
Locknut (EN 24035) grade 8.8 steel.
Spring stainless steel.

Version:
Coupling part nitrided, black.
Claw and seat tempered and phosphated.
Nut phosphated.
Locknut black.

Sample order:
K0711.12

Note:
Quick-fit coupling, adjustable without axial play, including angular and radial offset compensation. Suitable for multiple applications, e.g. for non-aligned linear-movements. Solid and compact design, no loose elements. Assembly and disassembly with a T-slot; a manual re-adjustment is not necessary. The quick-fit coupling can be linked to all commonly used pneumatic and hydraulic lifting cylinders via the connecting thread.

The quick-fit coupling does not transmit any torque.



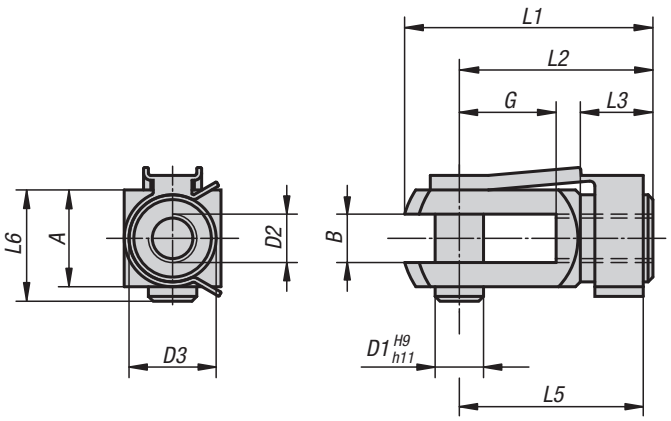
KIPP Quick-fit couplings with angular and radial offset compensation

Order No.	D	D1	D2	L	L1	L2	L3 min.	L4	L5	SW	SW1	SW2	SW3	radial offset compensation X max.	Max. permissible tensile and compressive stress kN
K0711.06	M6	24,5	9,6	52	14	9,5	13	29	18,5	22	19	8	5	0,6	2,5
K0711.08	M8	30	15	63	18	11,5	16	33	23,5	27	24	13	7	0,6	4,5
K0711.10	M10	44	21	81	22	16	24	43	30,5	41	36	18	12	0,7	6,5
K0711.101	M10x1,25	44	21	81	22	16	24	43	30,5	41	36	18	12	0,7	6,5
K0711.12	M12	44	21	85	26	16	24	43	34,5	41	36	18	12	0,7	10
K0711.121	M12x1,25	44	21	85	26	16	24	43	34,5	41	36	18	12	0,7	10
K0711.16	M16	60	32	121	34	26	34	62	45	55	46	27	18	1	18
K0711.161	M16x1,5	60	32	121	34	26	34	62	45	55	46	27	18	1	18
K0711.20	M20	60	32	129	42	26	34	62	53	55	46	27	18	1	30
K0711.201	M20x1,5	60	32	129	42	26	34	62	53	55	46	27	18	1	30

Clevis joints with snap-in pin

DIN 71752





Material:
Clevis and pins free-cutting steel.
Spring, spring steel.

Version:
Galvanized and chromed.

Sample order:
K0731.0510

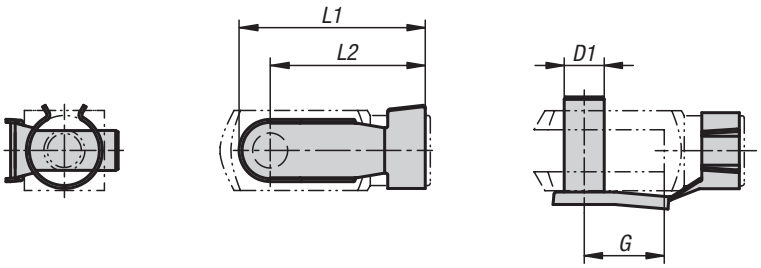
KIPP Clevis joints with snap-in pin DIN 71752

Order No.	Version	B	G	D1	D2	D3	L1	L2	L3	L5	L6	A
K0731.03508	RH thread	4	8	4	M3,5	8	21	16	6	15	10	8
K0731.0510	RH thread	5	10	5	M5	9	26	20	7,5	19	12	10
K0731.0612	RH thread	6	12	6	M6	10	31	24	9	23	14	12
K0731.0816	RH thread	8	16	8	M8	14	42	32	12	31	19	16
K0731.0832	RH thread	8	32	8	M8	14	58	48	12	47	19	16
K0731.1020	RH thread	10	20	10	M10	18	52	40	15	39	23	20
K0731.10120	RH thread	10	20	10	M10x1,25	18	52	40	15	39	23	20
K0731.1040	RH thread	10	40	10	M10	18	72	60	15	59	23	20
K0731.10140	RH thread	10	40	10	M10x1,25	18	72	60	15	59	23	20
K0731.1224	RH thread	12	24	12	M12	20	62	48	18	47	28	24
K0731.12124	RH thread	12	24	12	M12x1,25	20	62	48	18	47	28	24
K0731.1248	RH thread	12	48	12	M12	20	86	72	18	69	28	24
K0731.12148	RH thread	12	48	12	M12x1,25	20	86	72	18	69	28	24
K0731.1428	RH thread	14	28	14	M14	24	72	56	22,5	52	31	27
K0731.1632	RH thread	16	32	16	M16	26	83	64	24	62	36	32
K0731.16132	RH thread	16	32	16	M16x1,5	26	83	64	24	62	36	32
K0731.05101	LH thread	5	10	5	M5	9	26	20	7,5	19	12	10
K0731.06121	LH thread	6	12	6	M6	10	31	24	9	23	14	12
K0731.08161	LH thread	8	16	8	M8	14	42	32	12	31	19	16
K0731.08321	LH thread	8	32	8	M8	14	58	48	12	47	19	16
K0731.10201	LH thread	10	20	10	M10	18	52	40	15	39	23	20
K0731.10401	LH thread	10	40	10	M10	18	72	60	15	59	23	20
K0731.12241	LH thread	12	24	12	M12	20	62	48	18	47	28	24
K0731.16321	LH thread	16	32	16	M16	26	83	64	24	62	36	32

Snap-in pin

for clevis joints DIN 71752





Material:
Steel bolts.
Spring, tempered leaf spring steel.

Version:
galvanized.

Sample order:
K1139.0408

Note:
For clevis joints DIN 71752.

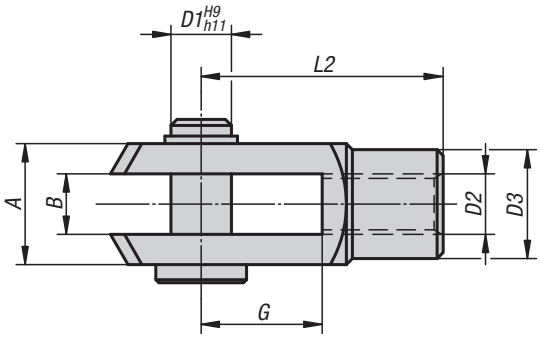
KIPP Snap-in pin for clevis joints DIN 71752

Order No.	D1	G	L1	L2
K1139.0408	4	8	18,5	15
K1139.0510	5	10	23	19
K1139.0612	6	12	28	23
K1139.0816	8	16	37	30
K1139.0832	8	32	52	46
K1139.1020	10	20	46	38
K1139.1040	10	40	66	58
K1139.1224	12	24	53	45
K1139.1248	12	48	78	69
K1139.1428	14	28	62	52
K1139.1632	16	32	73	62

Clevis joints stainless steel

DIN 71752





Material:
Stainless steel 1.4305.

Version:
Bright.

Sample order:
K0732.0816

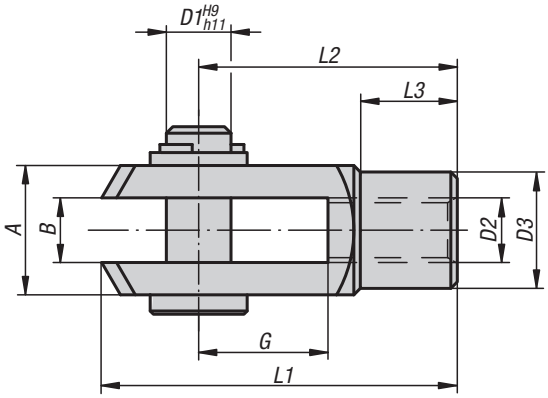
KIPP Clevis joints stainless steel DIN 71752

Order No.	Version	B	G	D1	D2	D3	L2	A
K0732.0510	RH thread	5	10	5	M5	9	20	10
K0732.0612	RH thread	6	12	6	M6	10	24	12
K0732.0816	RH thread	8	16	8	M8	14	32	16
K0732.0832	RH thread	8	32	8	M8	14	48	16
K0732.1020	RH thread	10	20	10	M10	18	40	20
K0732.10120	RH thread	10	20	10	M10x1,25	18	40	20
K0732.1040	RH thread	10	40	10	M10	18	60	20
K0732.1224	RH thread	12	24	12	M12	20	48	24
K0732.12124	RH thread	12	24	12	M12x1,25	20	48	24
K0732.1248	RH thread	12	48	12	M12	20	72	24
K0732.12148	RH thread	12	48	12	M12x1,25	20	72	24
K0732.1428	RH thread	14	28	14	M14	24	56	27
K0732.1632	RH thread	16	32	16	M16	26	64	32
K0732.16132	RH thread	16	32	16	M16x1,5	26	64	32
K0732.05101	LH thread	5	10	5	M5	9	20	10
K0732.06121	LH thread	6	12	6	M6	10	24	12
K0732.08161	LH thread	8	16	8	M8	14	32	16
K0732.10201	LH thread	10	20	10	M10	18	40	20
K0732.12241	LH thread	12	24	12	M12	20	48	24
K0732.16321	LH thread	16	32	16	M16	26	64	32

Clevis joints

DIN 71752





Material:
Steel.

Version:
galvanized.

Sample order:
K0733.0510

KIPP Clevis joints DIN 71752

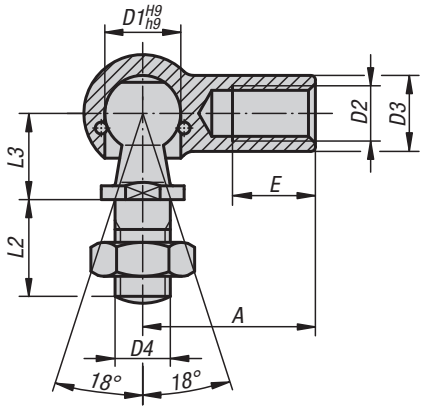
Order No.	Version	B	G	D1	D2	D3	L1	L2	L3	A
K0733.0510	RH thread	5	10	5	M5	9	26	20	7,5	10
K0733.0612	RH thread	6	12	6	M6	10	31	24	9	12
K0733.0816	RH thread	8	16	8	M8	14	42	32	12	16
K0733.0832	RH thread	8	32	8	M8	14	58	48	12	16
K0733.1020	RH thread	10	20	10	M10	18	52	40	15	20
K0733.10120	RH thread	10	20	10	M10x1,25	18	52	40	15	20
K0733.1040	RH thread	10	40	10	M10	18	72	60	15	20
K0733.10140	RH thread	10	40	10	M10x1,25	18	72	60	15	20
K0733.1224	RH thread	12	24	12	M12	20	62	48	18	24
K0733.12124	RH thread	12	24	12	M12x1,25	20	62	48	18	24
K0733.1248	RH thread	12	48	12	M12	20	86	72	18	24
K0733.12148	RH thread	12	48	12	M12x1,25	20	86	72	18	24
K0733.1428	RH thread	14	28	14	M14	24	72	56	22,5	27
K0733.1632	RH thread	16	32	16	M16	26	83	64	24	32
K0733.16132	RH thread	16	32	16	M16x1,5	26	83	64	24	32
K0733.05101	LH thread	5	10	5	M5	9	26	20	7,5	10
K0733.06121	LH thread	6	12	6	M6	10	31	24	9	12
K0733.08161	LH thread	8	16	8	M8	14	42	32	12	16
K0733.10201	LH thread	10	20	10	M10	18	52	40	15	20
K0733.12241	LH thread	12	24	12	M12	20	62	48	18	24
K0733.16321	LH thread	16	32	16	M16	26	83	64	24	32

Ball joints

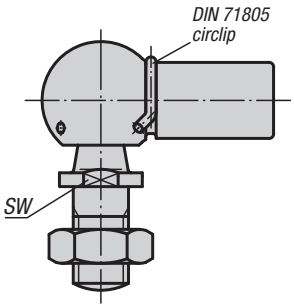
DIN 71802



Form C
without circlip



Form CS
with circlip



Material:
Steel or 1.4305 stainless steel

Version:
Galvanized and chromed.
Stainless steel bright.

Sample order:
K0734.08051

Note:
With snap ring. LH thread refers to dimension D2.

KIPP Ball joints DIN 71802

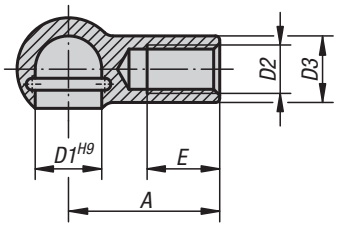
Order No. RH thread	Order No. LH thread	Form	Main material	D1	D2	D3	D4	A	L2	L3	E	SW
K0734.0805	**K0734.080501**	C	steel	8	M5	8	M5	22	10,2	9	10,2	7
K0734.1006	**K0734.100601**	C	steel	10	M6	10	M6	25	12,5	11	11,5	8
K0734.1308	**K0734.130801**	C	steel	13	M8	13	M8	30	16,5	13	14	11
K0734.1610	**K0734.161001**	C	steel	16	M10	16	M10	35	20	16	15,5	13
K0734.1612	**K0734.161201**	C	steel	16	M12	16	M12	35	20	16	15,5	13
K0734.1914	**K0734.191401**	C	steel	19	M14x1,5	22	M14x1,5	45	28	20	21,5	16
K0734.1916	**K0734.191601**	C	steel	19	M16	22	M16	45	28	20	21,5	16
K0734.080351	-	CS	steel	8	M3,5	8	M4	18	10,2	9	8	7
K0734.08051	**K0734.080511**	CS	steel	8	M5	8	M5	22	10,2	9	10,2	7
K0734.10061	**K0734.100611**	CS	steel	10	M6	10	M6	25	12,5	11	11,5	8
K0734.13081	**K0734.130811**	CS	steel	13	M8	13	M8	30	16,5	13	14	11
K0734.16101	**K0734.161011**	CS	steel	16	M10	16	M10	35	20	16	15,5	13
K0734.16121	**K0734.161211**	CS	steel	16	M12	16	M12	35	20	16	15,5	13
K0734.19141	**K0734.191411**	CS	steel	19	M14x1,5	22	M14x1,5	45	28	20	21,5	16
K0734.19161	**K0734.191611**	CS	steel	19	M16	22	M16	45	28	20	21,5	16
K0734.08052	**K0734.080521**	CS	stainless steel	8	M5	8	M5	22	10,2	9	10,2	7
K0734.10062	**K0734.100621**	CS	stainless steel	10	M6	10	M6	25	12,5	11	11,5	8
K0734.13082	**K0734.130821**	CS	stainless steel	13	M8	13	M8	30	16,5	13	14	11
K0734.16102	**K0734.161021**	CS	stainless steel	16	M10	16	M10	35	20	16	15,5	13
K0734.16122	**K0734.161221**	CS	stainless steel	16	M12	16	M12	35	20	16	15,5	13

Ball seats for ball joints

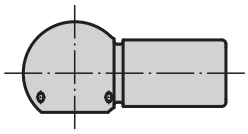
DIN 71805



Form A
with snap ring



Form B
with snap ring and
groove for circlip



Material:
Steel.

Version:
Galvanized and chromed.

Sample order:
K0712.08051

Note:
The ball seats are spare parts for DIN 71802 ball joints.
See circlips for ball seats for suitable clips for Form B.

On request:
Stainless steel ball seats.

KIPP Ball seats for ball joints DIN 71805

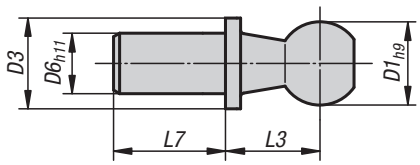
Order No.	Form	D1	D2	D3	A	E
K0712.0805	A	8	M5	8	22	10,2
K0712.1006	A	10	M6	10	25	11,5
K0712.1308	A	13	M8	13	30	14
K0712.1610	A	16	M10	16	35	15,5
K0712.1612	A	16	M12	16	35	15,5
K0712.1914	A	19	M14x1,5	22	45	21,5
K0712.1916	A	19	M16	22	45	21,5
K0712.080351	B	8	M3,5	8	18	8
K0712.08051	B	8	M5	8	22	10,2
K0712.10061	B	10	M6	10	25	11,5
K0712.13081	B	13	M8	13	30	14
K0712.16101	B	16	M10	16	35	15,5
K0712.16121	B	16	M12	16	35	15,5
K0712.19141	B	19	M14x1,5	22	45	21,5
K0712.19161	B	19	M16	22	45	21,5

Ball studs for ball joints

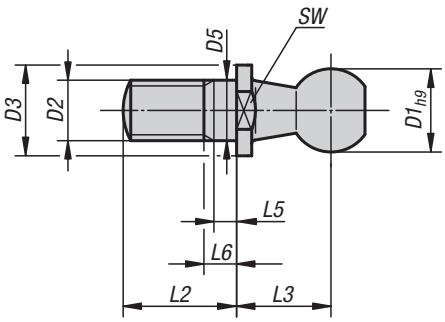
DIN 71803



Form B
with rivet pin



Form C
with thread and flats

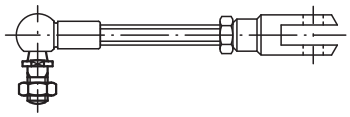


Material:
Steel.

Version:
Galvanized and chromed.

Sample order:
K0713.1006

Note:
The ball studs are spare parts for DIN 71802 ball joints.



KIPP Ball studs for ball joints DIN 71803

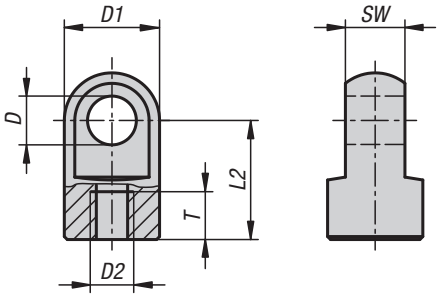
Order No.	Form	Version	D1	D2	D3	D5	D6	L2	L3	L5 min.	L6 max.	L7	SW
K0713.0840	B	short	8	-	8	-	5	-	9	-	-	4	-
K0713.1045	B	short	10	-	10	-	6	-	11	-	-	4,5	-
K0713.1305	B	short	13	-	13	-	8	-	13	-	-	5	-
K0713.1606	B	short	16	-	16	-	10	-	16	-	-	6	-
K0713.1912	B	short	19	-	19	-	14	-	20	-	-	12	-
K0713.0875	B	long	8	-	8	-	5	-	9	-	-	7,5	-
K0713.1080	B	long	10	-	10	-	6	-	11	-	-	8	-
K0713.1310	B	long	13	-	13	-	8	-	13	-	-	10	-
K0713.1613	B	long	16	-	16	-	10	-	16	-	-	13	-
K0713.1918	B	long	19	-	19	-	14	-	20	-	-	18	-
K0713.0805	C	-	8	M5	8	5	-	10,2	9	1,2	4	-	7
K0713.1006	C	-	10	M6	10	6	-	12,5	11	1,2	4	-	8
K0713.1308	C	-	13	M8	13	8	-	16,5	13	1,5	5,3	-	11
K0713.1610	C	-	16	M10	16	10	-	20	16	2,5	7,3	-	13
K0713.1612	C	-	16	M12	16	12	-	20	16	2,5	7,3	-	13
K0713.1914	C	-	19	M14x1,5	19	14	-	28	20	5	10,8	-	16

K0127

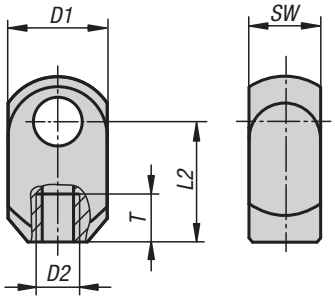
Rod-end eyes



Ⓐ



Ⓑ



Material:
Steel or 1.4305 stainless steel

Version:
Steel galvanized.
Stainless steel bright.

Sample order:
K0127.03504111

Note:
With internal thread.

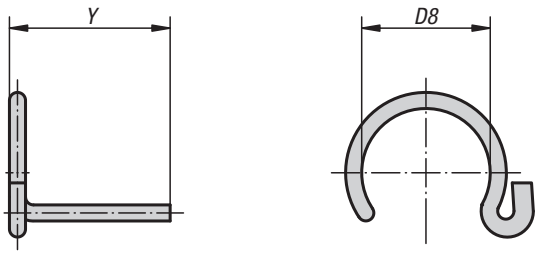
KIPP Rod-end eyes

Order No. Steel	Order No. stainless steel	Form	D	D1	D2	L2	SW	T
K0127.03504111	-	A	4,1	8	M3,5	11	4	6
K0127.0506116	**K0127.05061161**	A	6,1	10	M5	16	6	8
K0127.0508116	-	B	8,1	15	M5	16	10	8
K0127.0808119	**K0127.08081191**	A	8,1	14	M8	19	10	11
K0127.1008127	**K0127.10081271**	A	8,1	18	M10	27	10	12

K0714

Circlips for ball seats

DIN 71805





Material:
Spring steel

Version:
Galvanized and chromed.

Sample order:
K0714.08

Note:
For DIN 71805 ball seats.

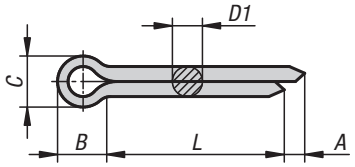
KIPP Circlips for ball seats DIN 71805

Order No.	Type	D8	Y	Suitable for ball sockets with D1
K0714.08	S 8	7	12	8
K0714.10	S10	8,7	12,5	10
K0714.13	S13	11	15,7	13
K0714.16	S16	13	19	16
K0714.19	S19	20	24	19

Split pins

DIN EN ISO 1234





Material:
Steel or stainless steel 1.4310.

Version:
Steel galvanized.
Stainless steel bright.

Sample order:
K1136.1010X10 (include length L)

Note:
Split pins are used in machine construction and automotive engineering as retaining elements. They are often used for securing castle nuts. After the split pin is pushed through a hole, the ends are bent over to ensure a secure lock.

The split pin can be shortened. As a rule, the split pin should be roughly double the length of the hole.

As the material structure can weaken through bending and straightening, the split pins should not be reused after they have been removed from the hole.

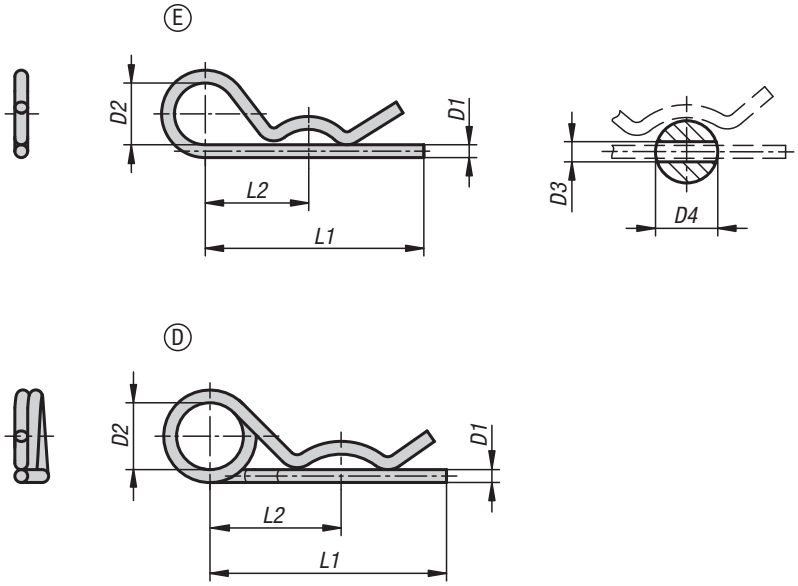
KIPP Split pins DIN EN ISO 1234

Order No.	Main material	Hole diameters	D1 max.	L	A min.	B	C max.	for screws	for screw Ø
K1136.1010X	steel	1	0,9	10/12/16/20/25	0,8	3	1,8	3,5-4,5	3-4
K1136.1016X	steel	1,6	1,4	12/16/20/25/32	1,25	3,2	2,8	5,5-7	5-6
K1136.1020X	steel	2	1,8	10/16/20/25/32/36/40/50	1,25	4	3,6	7-9	6-8
K1136.1025X	steel	2,5	2,3	20/25/32/36/40/50	1,25	5	4,6	9-11	8-9
K1136.1032X	steel	3,2	2,9	16/20/25/32/36/40/50/63	1,6	6,4	5,8	11-14	9-12
K1136.1040X	steel	4	3,7	20/25/32/36/40/50/63/80	2	8	7,4	14-20	12-17
K1136.1050X	steel	5	4,6	25/32/36/40/50/63/80	2	10	9,2	20-27	17-23
K1136.1063X	steel	6,3	5,9	32/36/40/50/63/80/100	2	12,6	11,8	27-39	23-29
K1136.1080X	steel	8	7,5	50/63/80/100	2	16	15	39-56	29-44
K1136.2010X	stainless steel	1	0,9	16/20	0,8	3	1,8	3,5-4,5	3-4
K1136.2016X	stainless steel	1,6	1,4	12/16/20/25/32	1,25	3,2	2,8	5,5-7	5-6
K1136.2020X	stainless steel	2	1,8	10/16/20/25/32/40	1,25	4	3,6	7-9	6-8
K1136.2025X	stainless steel	2,5	2,3	20/25/32	1,25	5	4,6	9-11	8-9
K1136.2032X	stainless steel	3,2	2,9	16/20/25/32/36/40/50/63	1,6	6,4	5,8	11-14	9-12
K1136.2040X	stainless steel	4	3,7	20/25/32/40/50/63	2	8	7,4	14-20	12-17
K1136.2050X	stainless steel	5	4,6	32/36/40/50/63	2	10	9,2	20-27	17-23
K1136.2063X	stainless steel	6,3	5,9	36/40/50/63/80	2	12,6	11,8	27-39	23-29
K1136.2080X	stainless steel	8	7,5	50/80/100	2	16	15	39-56	29-44

R-clips

DIN 11024





Material:
Steel or stainless steel 1.4310.

Version:
Steel galvanized.
Stainless steel bright.

Sample order:
K1137.11200

Note:
R-clips are used for securing bolts and axles. They are easy to install and can be reused. The ends have no sharp edges.

Double coil R-clips have a flatter spring characteristics and are easier to install. The double coil allows a tether cable to be attached to prevent loss.

Drawing reference:
Form E: with single coil
Form D: with double coil

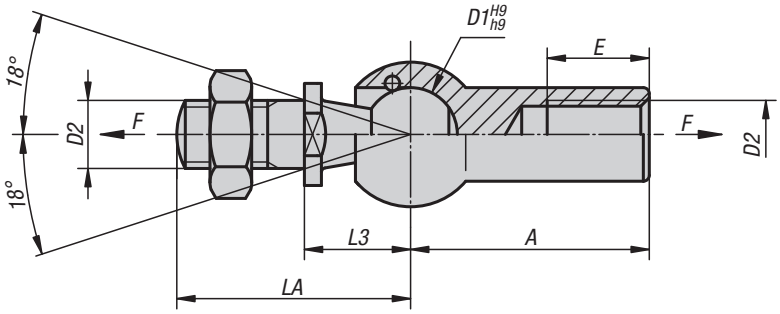
KIPP R-clips DIN 11024

Order No. steel	Order No. stainless steel	Form	D1	D2	D3	for screw Ø	L1	L2
K1137.11200	**K1137.21200**	E	2	10	2,5	9-14	50	25
K1137.11300	**K1137.21300**	E	3	18	3,5	10-16	60	28
K1137.11400	**K1137.21400**	E	4	20	4,5	16-20	60	30
K1137.11500	**K1137.21500**	E	5	24	6	20-28	85	40
K1137.11600	**K1137.21600**	E	6	30	7	28-40	105	50
K1137.11700	-	E	7	30	8	28-45	105	50
K1137.12225	**K1137.22225**	D	2,25	20	2,5	9-11,2	42	24
K1137.12280	**K1137.22280**	D	2,8	20	3,2	11,2-14	48	26
K1137.12360	**K1137.22360**	D	3,6	20	4	14-20	64	32
K1137.12450	**K1137.22450**	D	4,5	25	5	20-26	80	39
K1137.12560	**K1137.22560**	D	5,6	25	6,3	26-34	97	45
K1137.12630	-	D	6,3	30	7	34-45	125	56
K1137.12700	-	D	7	30	8	45-56	150	63

Axial joints

similar to DIN 71802





Material:
Steel.

Version:
Galvanized and chromed.

Sample order:
K0715.10

On request:
Axial joints with greater extraction force and left-hand thread available.

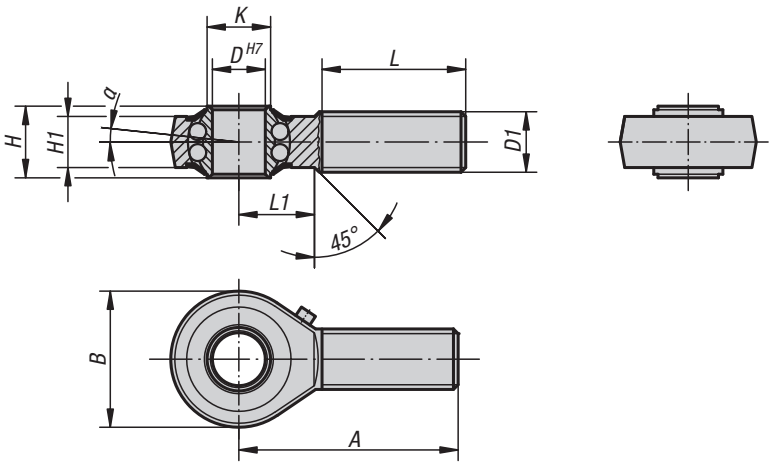
KIPP Axial joints similar to DIN 71802

Order No.	Main material	D1	D2	A	LA	L3	E	Extraction force F N
K0715.08	steel	8	M5	22	19,2	9	10,2	30
K0715.10	steel	10	M6	25	23,5	11	11,5	40
K0715.13	steel	13	M8	30	29,5	13	14	60
K0715.16	steel	16	M10	35	36	16	15,5	80
K0715.19	steel	19	M14x1,5	45	48	20	21,5	100

Rod ends with ball bearing

external thread





Material:
Casing drop-forged steel, tempered.

Version:
Galvanized.
Bearing play 15 - 40 µm.

Sample order:
K0716.12

Note:
The hardened ball bearing is long-term greased and sealed with cover washers. The connection dimensions comply with DIN 648 Form series KA.
Rod ends are primarily used where movement processes are transmitted and there is no exact alignment. Up to D = 10 the rod ends have a DIN 3405/A flush type grease nipple. From D = 12 they have a DIN 71412/A conical head type grease nipple.

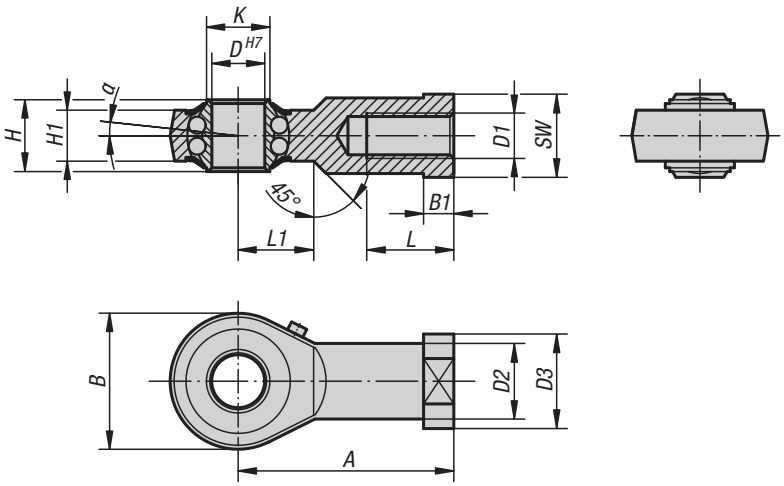
KIPP Rod ends with ball bearing external thread

Order No. RH thread	Order No. LH thread	D	D1	A	B	H	H1	K	L	L1	α	Dynamic load rating N	Static load rating N	Rev. limit n max. 1/min
K0716.06	**K0716.061**	6	M6	36	20	9	6,75	9	22	12	8°	2750	650	1350
K0716.08	**K0716.081**	8	M8	42	24	12	9	10,5	25	15	8,5°	4000	1000	1300
K0716.10	**K0716.101**	10	M10	48	28	14	10,5	12	29	15	8°	4450	1450	1225
K0716.12	**K0716.121**	12	M12	54	32	16	12	14,5	33	19	7,5°	4950	1800	1125
K0716.16	**K0716.161**	16	M16	66	42	21	15	19	40	22	8°	6250	2350	975
K0716.20	**K0716.201**	20	M20x1,5	78	50	25	18	24,5	47	28	7°	7900	3450	825
K0716.22	**K0716.221**	22	M22x1,5	84	54	28	20	26	51	26	8°	9300	3980	725

Rod ends with ball bearing

internal thread





Material:
Casing drop-forged steel, tempered.

Version:
Galvanized.
Internal clearance 15 - 40 µm.

Sample order:
K0717.16

Note:
The hardened ball bearing is long-term greased and sealed with cover washers. The connection dimensions comply with DIN 648 Form Series KA.

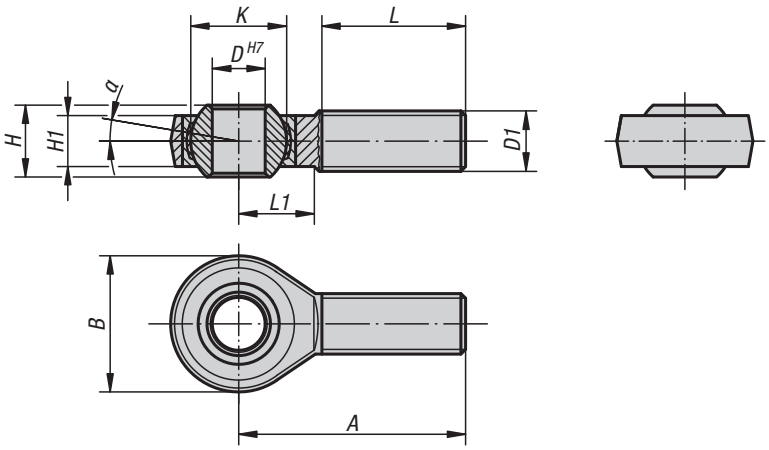
KIPP Rod ends with ball bearing internal thread

Order No. RH thread	Order No. LH thread	D	D1	D2	D3	A	B	B1	H	H1	K	L	L1	SW	α	Dynamic load rating N	Static load rating N	Rev. limit n max. 1/min
K0717.06	**K0717.061**	6	M6	10	13	30	20	5	9	6,75	9	12	10	11	8°	2750	650	1350
K0717.08	**K0717.081**	8	M8	12,5	16	36	24	5	12	9	10,5	16	12	14	8,5°	4000	1000	1300
K0717.10	**K0717.101**	10	M10	15	19	43	28	6,5	14	10,5	12	20	15	17	8°	4450	1450	1225
K0717.12	**K0717.121**	12	M12	17,5	22	50	32	6,5	16	12	14,5	22	16	19	7,5°	4950	1800	1125
K0717.16	**K0717.161**	16	M16	22	27	64	42	8	21	15	19	28	22	22	8°	6250	2350	975
K0717.20	**K0717.201**	20	M20x1,5	27,5	34	77	50	10	25	18	24,5	33	26	30	7°	7900	3450	825
K0717.22	**K0717.221**	22	M22x1,5	30	38	84	54	12	28	20	26	37	26	32	8°	9300	3980	725

Rod ends with plain bearing

external thread





Material:
Housing size (D) 5-12 turned steel.
From size (D) 16 forged steel.
Ball joint ball bearing steel, hardened, ground and polished.
Bearing shell steel with PTFE weave glued in.

Version:
galvanized.

Sample order:
K0718.20

Note:
The rod end bearing is maintenance-free. The connection dimensions comply with DIN 648 series KA.

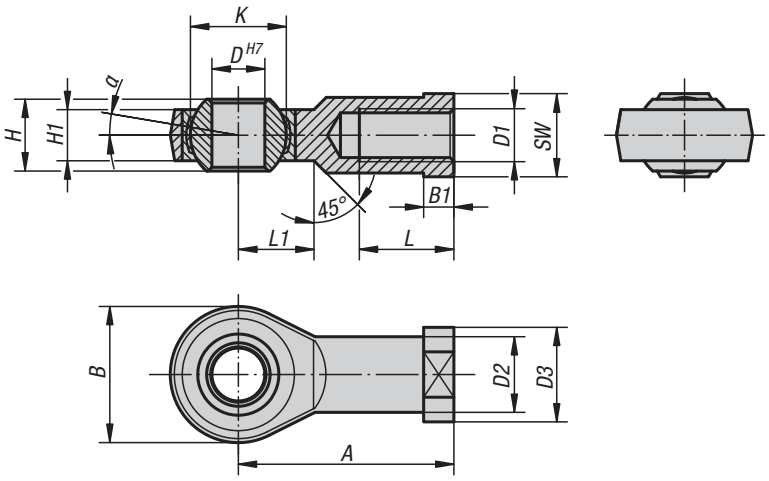
KIPP Rod ends with plain bearing, external thread

Order No. RH thread	Order No. LH thread	D	D1	A	B	H	H1	K	L	L1	α	Dynamic base loads kN	Static base loads kN
K0718.05	**K0718.051**	5	M5	33	18	8	6	11,11	20	9	13°	7,5	4,3
K0718.06	**K0718.061**	6	M6	36	20	9	6,75	12,7	22	12	13°	9,3	6
K0718.08	**K0718.081**	8	M8	42	24	12	9	15,87	25	15	13°	16,7	11
K0718.10	**K0718.101**	10	M10	48	28	14	10,5	19,05	29	15	13°	23,4	17,4
K0718.12	**K0718.121**	12	M12	54	32	16	12	22,22	33	19	13°	32	23,5
K0718.16	**K0718.161**	16	M16	66	42	21	15	28,57	40	22	15°	52,7	32
K0718.20	**K0718.201**	20	M20x1,5	78	50	25	18	34,92	47	28	15°	78,1	43,8
K0718.22	**K0718.221**	22	M22x1,5	84	54	28	20	38,1	51	26	15°	97,2	52,6

Rod ends with plain bearing

internal thread





Material:
Housing size (D) 5-12 turned steel.
From size (D) 16 forged steel.
Ball joint ball bearing steel, hardened, ground and polished.
Bearing shell steel with PTFE weave glued in.

Version:
galvanized.

Sample order:
K0719.22

Note:
The rod end bearing is maintenance-free. The connection dimensions comply with DIN 648 series KJ.

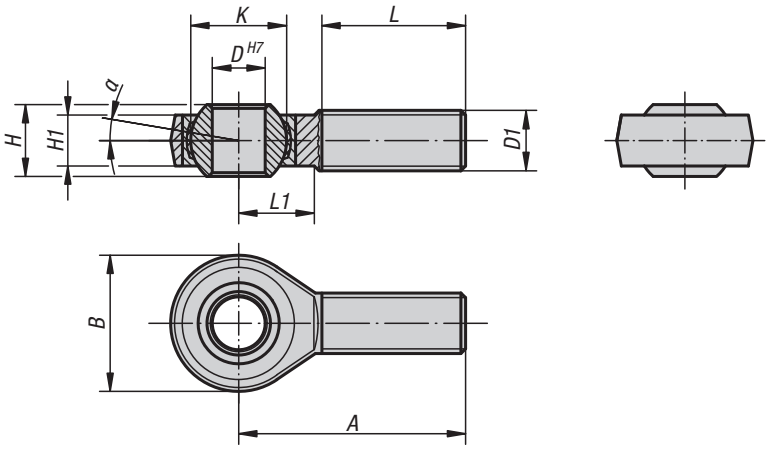
KIPP Rod ends with plain bearing internal thread

Order No. RH thread	Order No. LH thread	D	D1	D2	D3	A	B	B1	H	H1	K	L	L1	SW	α	Dynamic base loads kN	Static base loads kN
K0719.05	**K0719.051**	5	M5	9	11	27	18	4	8	6	11,11	10	10	9	13°	7,5	8
K0719.06	**K0719.061**	6	M6	10	13	30	20	5	9	6,75	12,7	12	10	11	13°	9,3	8,9
K0719.08	**K0719.081**	8	M8	12,5	16	36	24	5	12	9	15,87	16	12	13	13°	16,7	14,1
K0719.10	**K0719.101**	10	M10	15	19	43	28	6,5	14	10,5	19,05	20	15	17	13°	23,4	19,3
K0719.10125	**K0719.101251**	10	M10x1,25	15	19	43	28	6,5	14	10,5	19,05	20	15	17	13°	23,4	19,3
K0719.12	**K0719.121**	12	M12	17,5	22	50	32	6,5	16	12	22,22	22	16	19	13°	32	23,5
K0719.12125	**K0719.121251**	12	M12x1,25	17,5	22	50	32	6,5	16	12	22,22	22	16	19	13°	32	23,5
K0719.16	**K0719.161**	16	M16	22	27	64	42	8	21	15	28,57	28	22	22	15°	52,7	32
K0719.1615	**K0719.16151**	16	M16x1,5	22	27	64	42	8	21	15	28,57	28	22	22	15°	52,7	32
K0719.20	**K0719.201**	20	M20x1,5	27,5	34	77	50	10	25	18	34,92	33	26	32	15°	78,1	43,8
K0719.22	**K0719.221**	22	M22x1,5	30	37	84	54	12	28	20	38,1	37	26	32	15°	97,2	52,6

Rod ends with plain bearing

external thread, stainless steel





Material:
Housing forged special steel 1.4057.
Ball joint 1.4034 hardened and ground.
Bearing shell stainless steel 1.4571.

Version:
Polished.

Sample order:
K0720.20

Note:
The rod end bearing is maintenance-free.
The connection dimensions comply with DIN 648 Form Series KA.

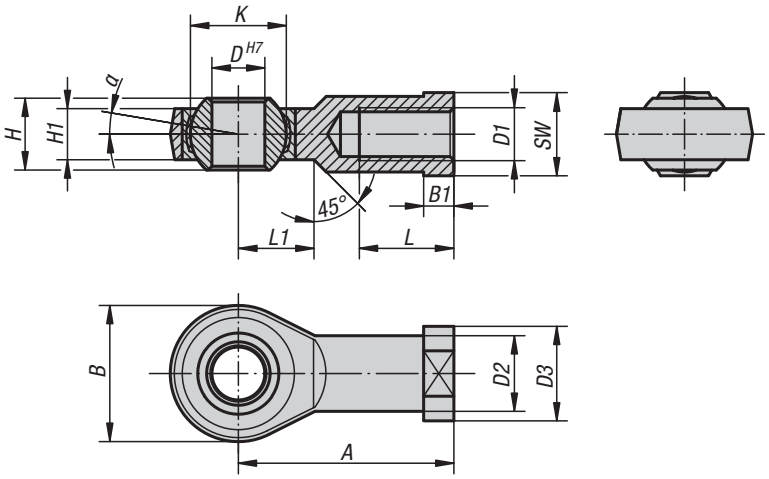
KIPP Rod ends with plain bearing external thread, stainless steel

Order No. RH thread	Order No. LH thread	D	D1	A	B	H	H1	K	L	L1	α	Dynamic base loads kN	Static base loads kN
K0720.05	**K0720.051**	5	M5	33	18	8	6	11,11	20	9	13°	7,5	6,2
K0720.06	**K0720.061**	6	M6	36	20	9	6,75	12,7	22	12	13°	9,3	8,8
K0720.08	**K0720.081**	8	M8	42	24	12	9	15,87	25	15	13°	16,7	16,1
K0720.10	**K0720.101**	10	M10	48	28	14	10,5	19,05	29	15	13°	23,4	25,5
K0720.12	**K0720.121**	12	M12	54	32	16	12	22,22	33	19	13°	32	34,5
K0720.16	**K0720.161**	16	M16	66	42	21	15	28,57	40	22	15°	52,7	60,6
K0720.20	**K0720.201**	20	M20x1,5	78	50	25	18	34,92	47	28	15°	78,1	83,1
K0720.22	**K0720.221**	22	M22x1,5	84	54	28	20	38,1	51	26	15°	97,2	99,7

Rod ends with plain bearing

internal thread, stainless steel





Material:
Housing forged stainless steel 1.4057.
Ball joint 1.4034 hardened and ground.
Bearing shell stainless steel 1.4571.

Version:
Polished.

Sample order:
K0721.22

Note:
The rod end bearing is maintenance-free.
The connection dimensions comply with DIN 648 Form Series KJ.

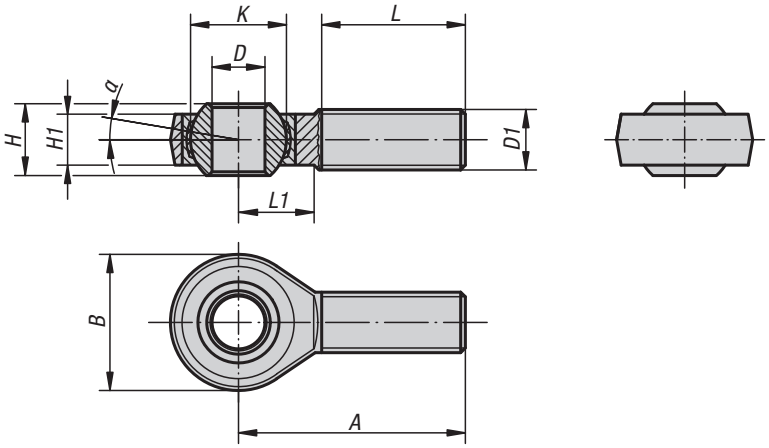
KIPP Rod ends with plain bearing internal thread, stainless steel

Order No. RH thread	Order No. LH thread	D	D1	D2	D3	A	B	B1	H	H1	K	L	L1	SW	α	Dynamic base loads kN	Static base loads kN
K0721.05	**K0721.051**	5	M5	9	11	27	18	4	8	6	11,11	10	10	9	13°	7,5	11,8
K0721.06	**K0721.061**	6	M6	10	13	30	20	5	9	6,75	12,7	12	10	11	13°	9,3	13,1
K0721.08	**K0721.081**	8	M8	12,5	16	36	24	5	12	9	15,87	16	12	13	13°	16,7	20,7
K0721.10	**K0721.101**	10	M10	15	19	43	28	6,5	14	10,5	19,05	20	15	17	13°	23,4	28,3
K0721.10125	**K0721.101251**	10	M10x1,25	15	19	43	28	6,5	14	10,5	19,05	20	15	17	13°	23,4	28,3
K0721.12	**K0721.121**	12	M12	17,5	22	50	32	6,5	16	12	22,22	22	16	19	13°	32	34,5
K0721.12125	**K0721.121251**	12	M12x1,25	17,5	22	50	32	6,5	16	12	22,22	22	16	19	13°	32	34,5
K0721.16	**K0721.161**	16	M16	22	27	64	42	8	21	15	28,57	28	22	22	15°	52,7	60,6
K0721.1615	**K0721.16151**	16	M16x1,5	22	27	64	42	8	21	15	28,57	28	22	22	15°	52,7	60,6
K0721.20	**K0721.201**	20	M20x1,5	27,5	34	77	50	10	25	18	34,92	33	26	32	15°	78,1	83,1
K0721.22	**K0721.221**	22	M22x1,5	30	37	84	54	12	28	20	38,1	37	26	32	15°	97,2	99,7

Rod ends with plain bearing

external thread, narrow version





Material:
Housing size (D) 6-10 turned steel.
From size (D) 12 forged steel.
Ball joint ball bearing steel, hardened, ground, polished and hard chromed.
Bearing shell ball bearing steel with PTFE weave glued in.

Version:
galvanized.

Sample order:
K0722.20

Note:
The rod end bearing is maintenance-free.
The connection dimensions comply with DIN 648 Form Series E.

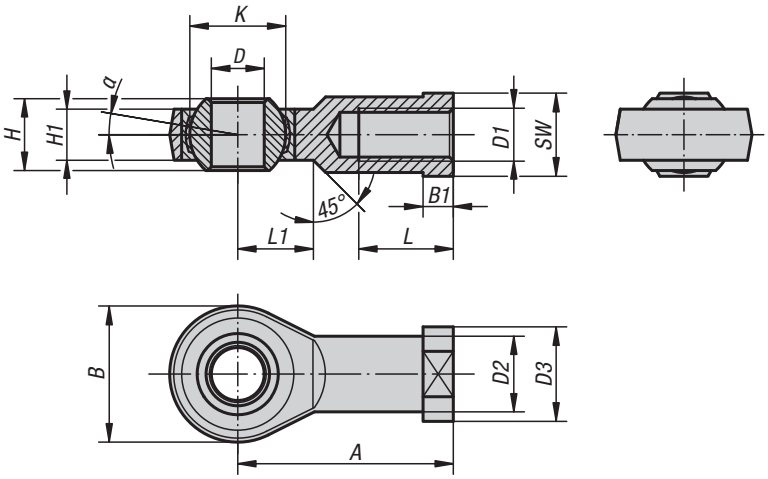
KIPP Rod ends with plain bearing external thread, narrow version

Order No. RH thread	Order No. LH thread	D	D1	A	B	H	H1	K	L	L1	α	Dynamic base loads kN	Static base loads kN
K0722.06	**K0722.061**	6 -0,008	M6	36	20	6	4,4	10	18	11	12°	3,6	8,2
K0722.08	**K0722.081**	8 -0,008	M8	42	24	8	6	13	22	12	12°	5,8	12,9
K0722.10	**K0722.101**	10 -0,008	M10	48	28	9	7	16	26	15	12°	8,6	17,6
K0722.12	**K0722.121**	12 -0,008	M12	54	34	10	8	18	28	15	8°	11,4	24,5
K0722.16	**K0722.161**	17 -0,008	M16	69	46	14	11	25	36	23	8°	22	45
K0722.20	**K0722.201**	20 -0,010	M20x1,5	78	53	16	13	29	43	25	8°	31,5	60

Rod ends with plain bearing

internal thread, narrow version





Material:
Housing size (D) 6-10 turned steel.
From size (D) 12 forged steel.
Ball joint ball bearing steel, hardened, ground, polished and hard chromed.
Bearing shell ball bearing steel with PTFE weave glued in.

Version:
galvanized.

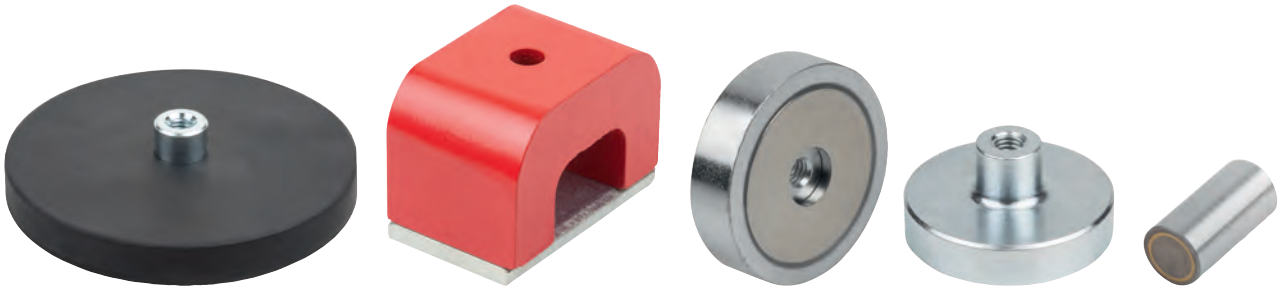
Sample order:
K0723.12

Note:
The rod end bearing is maintenance-free.
The connection dimensions comply with DIN 648 Form Series E.

KIPP Rod ends with plain bearing internal thread, narrow version

Order No. RH thread	Order No. LH thread	D	D1	D2	D3	A	B	B1	H	H1	K	L	L1	SW	α	Dynamic base loads kN	Static base loads kN
K0723.20	**K0723.201**	20 -0,010	M20x1,5	27,5	35	77	53	10	16	13	29	38	23	32	8°	31,5	60
K0723.06	**K0723.061**	6 -0,008	M6	10	13	30	20	5	6	4,4	10	12	11	11	12°	3,6	8,2
K0723.12125	**K0723.121251**	12 -0,008	M12x1,25	17,5	22	50	34	6,5	10	8	18	22	15	19	8°	11,4	24,5
K0723.16	**K0723.161**	17 -0,008	M16	24	30	67	46	10	14	11	25	33	20	27	8°	22	45
K0723.08	**K0723.081**	8 -0,008	M8	12,5	16	36	24	5	8	6	13	16	12	14	12°	5,8	12,9
K0723.10	**K0723.101**	10 -0,008	M10	15	19	43	28	6,5	9	7	16	20	13	17	12°	8,6	17,6
K0723.10125	**K0723.101251**	10 -0,008	M10x1,25	15	19	43	28	6,5	9	7	16	20	13	17	12°	8,6	17,6
K0723.12	**K0723.121**	12 -0,008	M12	17,5	22	50	34	6,5	10	8	18	22	15	19	8°	11,4	24,5

Magnets



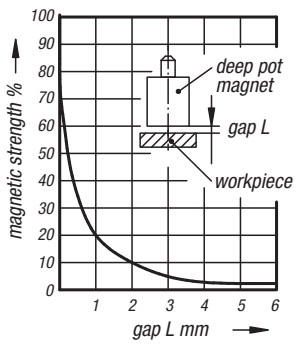
Technical data for pot magnets

Structure:
Pot magnets are magnets that, due to their structure have only one attracting surface. No other surface is magnetic. This construction makes it possible to limit the three-dimensional affect of the magnetic field so that no unintentional magnetization of the entire workpiece in contact with the pot magnet, or of the machine elements surrounding the magnet occurs.

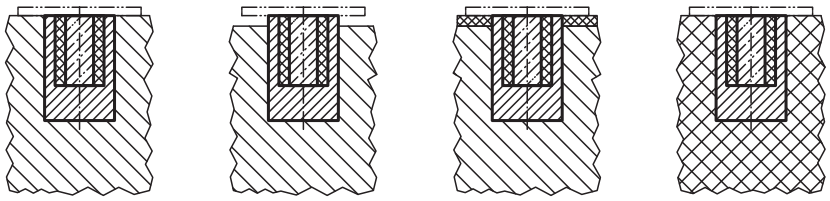
Designs:
The deep pot magnets series:
K0545
K0546
K0547
have a core made of the permanent magnetic material AlNiCo, which is inserted for magnetic shielding into a soft iron pot with an intervening sleeve made of a non-magnetic material.
The shallow pot magnets series:
K0548
K0549
have a core made of the permanent magnetic ceramic material SrFE (hard ferrite) . This is also inserted into soft iron pot to create the desired magnetic shielding.
The pot magnets series:
K0550
K0551
have a SmCo core, an alloy of rare metallic elements together with cobalt.
SmCo increases the magnetic force by three to five times that of AlNiCo or hard ferrite magnets by the same magnet size.

Magnetic strengths:
The values indicated in the table are minimum values that are achieved for a vertical pull-down with full-surface contact of the pot magnets on soft iron or low-carbon steel workpieces of sufficient thickness. By unclean pole faces or uneven workpieces, air gaps are formed which sharply decrease the attractive force. It is therefore advisable to always ensure a clean pole face and to clean it from time to time if necessary.

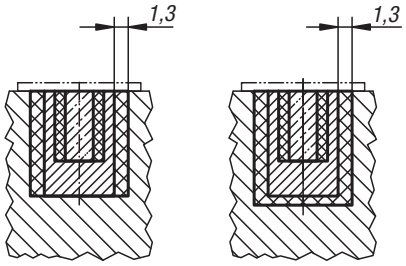
Diagram:
Reduction of the magnetic strength of a deep pot magnet with increasing air gap (non-magnetic intermediate layers have the same effect as air gaps).



Mounting instructions for shielded pot magnets without pins



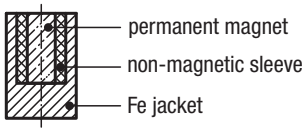
not correct | correct | correct | correct



not correct | correct

SmCo pot magnets (deep or shallow) must not be mounted directly in iron, but must be screwed, glued, pressed or cast into a sleeve of non-magnetic material (see illustration below).

Magnet series
shielded system





Installation or fastening possibilities of pot magnets

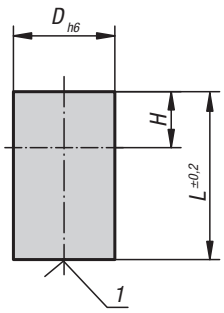
Order No.	Description	System	Temperature* max. °C	Fastening possibility
from **K0545.01** to **K0545.10**	deep pot magnet	shielded	450	Pressing in/shrink-fitting Gluing in
from **K0546.01** to **K0546.09**	deep pot magnet	shielded	450	Soldering in (soft soldering)/ Gluing in
from **K0547.01** to **K0547.10**	deep pot magnet	shielded	450	Riveting the pin in/ Screwing in
from **K0551.01** to **K0551.15**	deep pot magnet	shielded	200	Pressing in/gluing in/ Screwing in
from **K0548.01** to **K0548.10**	shallow pot magnet	shielded	100	Pressing in/gluing in
from **K0549.01** to **K0549.26**	shallow pot magnet	shielded	100	Screwing in
from **K0550.01** to **K0550.18**	shallow pot magnet	shielded	200	Pressing in/gluing in

* Long-term heating or alternating thermal stresses may lead to mechanical changes in the magnet system. In many cases they have no influence on the function. The same applies for chemical stresses (chemical baths, aggressive gases, etc).

Magnets deep pot

AlNiCo with fitting tolerance





Material:
Housing, steel.
Magnetic core AlNiCo.

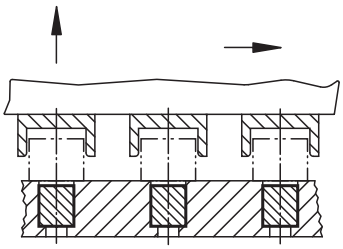
Version:
Housing bright.

Sample order:
K0545.01

Note:
Shielded system. Diameter “D” ground to a h6 tolerance. Fastening possibilities by pressing, shrink-fit or gluing.
Deep pot magnets can be shortened by the dimension “H” with no loss of attracting force.

Temperature range:
max. 450°C.

Drawing reference:
1) magnetic face



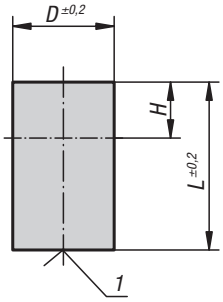
KIPP Magnets deep pot AlNiCo with fitting tolerance

Order No.	D	L	H	Magnetic force N
K0545.01	6	10	2	1,5
K0545.02	8	12	3	3,5
K0545.03	10	16	6	7
K0545.04	13	18	7	10
K0545.05	16	20	5	18
K0545.06	20	25	6	42
K0545.07	25	30	5	96
K0545.08	32	35	3	180
K0545.09	40	45	5	240
K0545.10	50	50	2	420

Magnets deep pot

AlNiCo without fitting tolerance





Material:
Housing, steel.
Magnetic core AlNiCo.

Version:
Housing, galvanized.

Sample order:
K0546.01

Note:
Shielded system. Diameter “D” without fitting tolerance. Fastening possibilities are pressing, shrink-fit or gluing.
Deep pot magnets can be shortened by the dimension “H” with no loss of attracting force.

Temperature range:
max. 450°C.

Drawing reference:
1) magnetic face

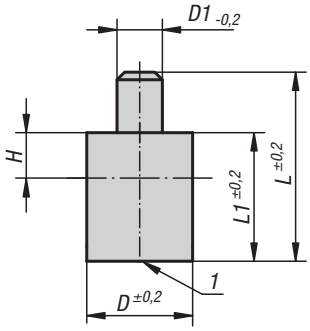
KIPP Magnets deep pot AlNiCo without fitting tolerance

Order No.	D	L	H	Magnetic force N
K0546.01	6	20	12	1,5
K0546.02	8	20	11	3,5
K0546.03	10	20	10	7
K0546.04	13	20	9	10
K0546.05	16	20	5	18
K0546.06	20	25	6	42
K0546.07	25	35	10	96
K0546.08	32	40	8	180
K0546.09	40	50	10	240

Magnets deep pot with pin

AlNiCo





Material:
Housing, steel.
Magnetic core AlNiCo.

Version:
Housing, galvanized.

Sample order:
K0547.01

Note:
Deep pot magnets with smooth pin, shielded system. The magnets can be shortened by the dimension “H” (to lengthen the pin) with no loss of attracting force.

Temperature range:
max. 450°C.

Drawing reference:
1) magnetic face

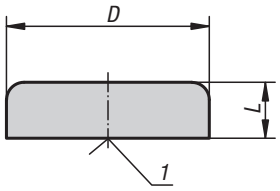
KIPP Magnets deep pot with pin AlNiCo

Order No.	D	D1	L	L1	H	Magnetic force N
K0547.01	6	3	28	20	2	1,7
K0547.02	8	3	28	20	3	4
K0547.03	10	4	28	20	6	8,5
K0547.04	13	4	28	20	7	12
K0547.05	16	5	28	20	5	20
K0547.06	20	6	33	25	6	50
K0547.07	25	8	45	35	5	115
K0547.08	32	10	50	40	3	200
K0547.09	40	15	70	50	5	240
K0547.10	50	18	85	60	2	420

Magnets shallow pot

hard ferrite





Material:
Housing, steel.
Magnetic core hard ferrite.

Version:
Housing, galvanized.

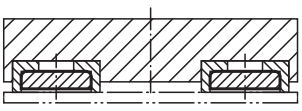
Sample order:
K0548.01

Note:
Shallow pot magnets without threaded bush. These magnets are pressed or glued into the receiving holes.

Hairline cracks in the magnetic material are unavoidable for technical reasons in the D=80 version. They do not impair the attracting function of the magnets in any way.

Temperature range:
max. 200°C.

Drawing reference:
1) magnetic face



KIPP Magnets shallow pot hard ferrite

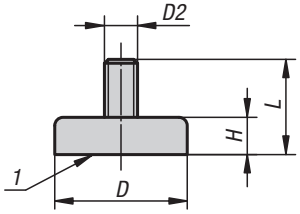
Order No.	D	L	Magnetic force N
K0548.01	10 ±0,15	4,5	4
K0548.02	13 ±0,15	4,5	10
K0548.03	16 ±0,15	4,5	18
K0548.04	20 ±0,15	6	30
K0548.05	25 ±0,15	7	40
K0548.06	32 ±0,20	7	80
K0548.07	40 ±0,20	8	125
K0548.08	50 ±0,20	10	220
K0548.09	63 ±0,20	14	350
K0548.10	80 ±0,25	18	600

Magnets shallow pot with thread

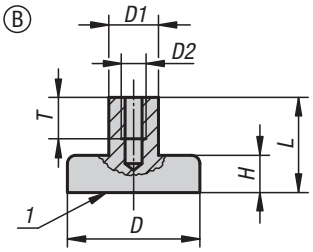
hard ferrite



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Material:
Housing, steel.
Magnetic core hard ferrite.

Version:
Housing, galvanized.

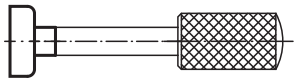
Sample order:
K0549.01

Note:
Shallow pot magnets, shielded system.

Hairline cracks in the magnetic material are unavoidable for technical reasons in D=80, D=100 and D=125 versions. They do not impair the attracting function of the magnets in any way.

Temperature range:
max. 200°C.

Drawing reference:
1) magnetic face



KIPP Magnets shallow pot with thread, hard ferrite

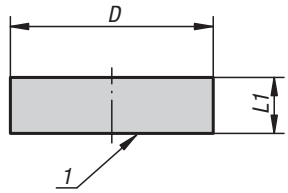
Order No. Form A	Order No. Form B	D	D1	D2	L	H	T	Magnetic force N
K0549.21	**K0549.01**	10 ±0,15	-/6	M3	11,5	4,5	-/5	4
K0549.22	**K0549.02**	13 ±0,15	-/6	M3	11,5	4,5	-/5	10
K0549.23	**K0549.03**	16 ±0,15	-/6	M3	11,5	4,5	-/5	18
K0549.24	**K0549.04**	20 ±0,15	-/6	M3	13	6	-/5	30
K0549.25	**K0549.05**	25 ±0,15	-/8	M4	15	7	-/6	40
K0549.26	**K0549.06**	32 ±0,20	-/8	M4	15	7	-/6	80
-	**K0549.07**	40 ±0,20	10	M5	18	8	8	125
-	**K0549.08**	50 ±0,20	12	M6	22	10	10	220
-	**K0549.09**	63 ±0,20	15	M8	30	14	14	350
-	**K0549.10**	80 ±0,25	20	M10	34	18	14	600
-	**K0549.11**	99 ±0,25	22	M12	42	22	17	900
-	**K0549.12**	125 ±0,25	25	M14	50	26	20	1300

Magnets shallow pot

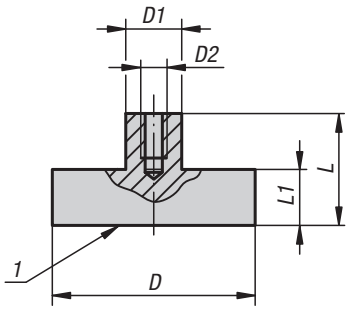
SmCo



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Material:
Housing, steel.
Magnetic core, SmCo.

Version:
Housing, galvanized.

Sample order:
K0550.01

Note:
Shallow pot magnets, shielded system. Magnets with an SmCo core have three to five times the attracting force of AlNiCo or hard ferrite magnets.

Temperature range:
max. 200°C.

Drawing reference:
1) magnetic face

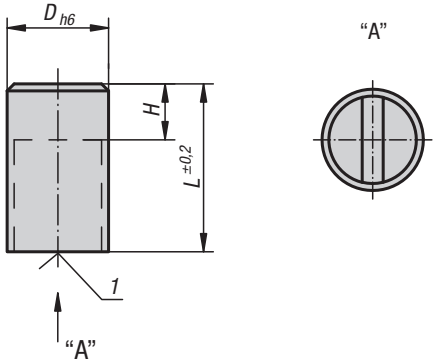
KIPP Magnets shallow pot SmCo

Order No. Form A	Order No. Form B	D	D1	D2	L	L1	Magnetic force N
K0550.01	**K0550.11**	6 ±0,15	-/6	-/M3	-/11,5	4,5	5
K0550.02	**K0550.12**	8 ±0,15	-/6	-/M3	-/11,5	4,5	11
K0550.03	**K0550.13**	10 ±0,15	-/6	-/M3	-/11,5	4,5	20
K0550.04	**K0550.14**	13 ±0,15	-/6	-/M3	-/11,5	4,5	40
K0550.05	**K0550.15**	16 ±0,15	-/6	-/M4	-/11,5	4,5	60
K0550.06	**K0550.16**	20 ±0,15	-/8	-/M4	-/13	6	90
K0550.07	**K0550.17**	25 ±0,15	-/8	-/M4	-/14	7	150
K0550.08	**K0550.18**	32 ±0,20	-/10	-/M5	-/15,5	7	220

Magnets deep pot

SmCo





Material:
Housing brass.
Magnetic core SmCo.

Sample order:
K0551.01

Note:
Smooth design, shielded system. Diameter "D" ground with h6 tolerance. Under no circumstances may SmCo magnets be pressed directly into iron, as otherwise loss of attractive force due to magnetic short circuits occurs. SmCo magnets are especially suitable for direct use in spot-welding machines, as no demagnetisation occurs.
Deep pot magnets can be shortened by the dimension "H" with no loss of attractive force.

Temperature range:
max. 200°C.

Drawing reference:
1) magnetic face

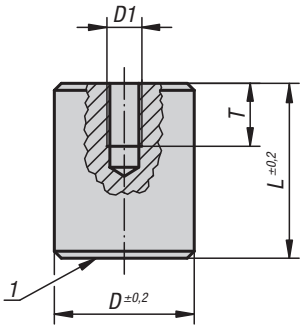
KIPP Magnets deep pot SmCo

Order No.	D	L	H	Magnetic force N	Distance to iron wall/mm
K0551.01	6	20	10	8	1,5
K0551.03	8	20	10	22	1,5
K0551.05	10	20	8	40	2
K0551.07	13	20	6	60	2,5
K0551.09	16	20	2	125	3
K0551.11	20	25	5	250	4
K0551.13	25	35	7	400	5
K0551.15	32	40	4,5	600	6

Magnets deep pot with internal thread

NdFeB





Material:
Housing, steel.
Magnetic core NdFeB.

Version:
Housing, galvanized.

Sample order:
K0552.01

Note:
Shielded system. Deep pot magnets are used for mounting in steel and iron. This requirement is principally stipulated in plant and machine construction.
Can also be used in blind holes.

Size D=50 has 4 magnets Ø18 mm.

Temperature range:
max. 80°C.

Drawing reference:
1) magnetic face

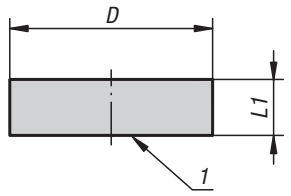
KIPP Magnets deep pot with internal thread NdFeB

Order No.	D	D1	L	T	Can be shortened by (mm)	Magnetic force N
K0552.01	8	M3	12	5	3	12
K0552.02	10	M4	16	7	7	24
K0552.03	13	M4	18	7	3	60
K0552.04	16	M4	20	7	6	90
K0552.05	20	M5	25	9	9	135
K0552.06	25	M6	30	9	10	190
K0552.07	35	M8	40	13	10	300
K0552.08	50	M12	50	13	13	550

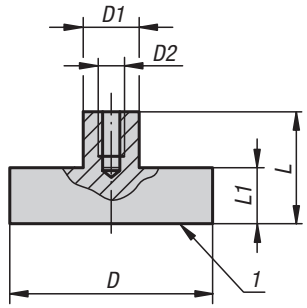
Magnets shallow pot

NdFeB

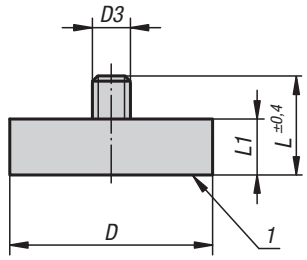
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Material:
Housing, steel.
Magnetic core NdFeB.

Version:
Housing, galvanized.

Sample order:
K0553.01

Note:
Shielded system. With the permanent magnetic material NdFeB the attracive force increases by ca. 10-20% compared with SmCo.

Temperature range:
max. 80°C.

Drawing reference:
1) magnetic face

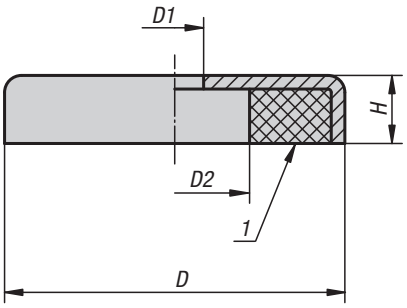
KIPP Magnets shallow pot NdFeB

Order No.	Form	D	D1	D2	D3	L	L1	Magnetic force N
K0553.01	A	6 ±0,15	-	-	-	-	4,5	5
K0553.02	A	8 ±0,15	-	-	-	-	4,5	13
K0553.03	A	10 ±0,15	-	-	-	-	4,5	25
K0553.04	A	13 ±0,15	-	-	-	-	4,5	60
K0553.05	A	16 ±0,15	-	-	-	-	4,5	95
K0553.06	A	20 ±0,15	-	-	-	-	6	140
K0553.07	A	25 ±0,15	-	-	-	-	7	200
K0553.08	A	32 ±0,20	-	-	-	-	7	350
K0553.11	B	6 ±0,15	6	M3	-	11,5	4,5	5
K0553.12	B	8 ±0,15	6	M3	-	11,5	4,5	13
K0553.13	B	10 ±0,15	6	M3	-	11,5	4,5	25
K0553.14	B	13 ±0,15	6	M3	-	11,5	4,5	60
K0553.15	B	16 ±0,15	6	M4	-	11,5	4,5	95
K0553.16	B	20 ±0,15	8	M4	-	13	6	140
K0553.17	B	25 ±0,15	8	M4	-	14	7	200
K0553.18	B	32 ±0,20	10	M5	-	15,5	7	350
K0553.23	C	10 ±0,15	-	-	M3	11,5	4,5	25
K0553.24	C	13 ±0,15	-	-	M5	12,5	4,5	60
K0553.25	C	16 ±0,15	-	-	M6	12,5	4,5	95
K0553.26	C	20 ±0,15	-	-	M6	16	6	140
K0553.27	C	25 ±0,15	-	-	M6	17	7	200
K0553.28	C	32 ±0,20	-	-	M6	17	7	350

K0554

Magnets shallow pot with counterbore

hard ferrite





Material:
Housing, steel.
Magnetic core hard ferrite.

Version:
Housing, galvanized.

Sample order:
K0554.50

Note:
Shielded system.

Temperature range:
max. 200°C.

Drawing reference:
1) magnetic face

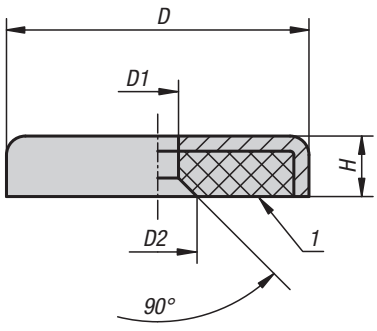
KIPP Magnets shallow pot with counterbore hard ferrite

Order No.	D	D1	D2	H	Magnetic force N
K0554.50	50 ±0,20	8,5	22	10	180
K0554.63	63 ±0,20	6,5	24	14	290
K0554.80	80 ±0,25	6,5	11,5	18	540

K0555

Magnets shallow pot with countersink

hard ferrite





Material:
Housing, steel.
Magnetic core hard ferrite.

Version:
Housing, galvanized.

Sample order:
K0555.01

Note:
Shielded system.

Temperature range:
max. 200°C.

Drawing reference:
1) magnetic face

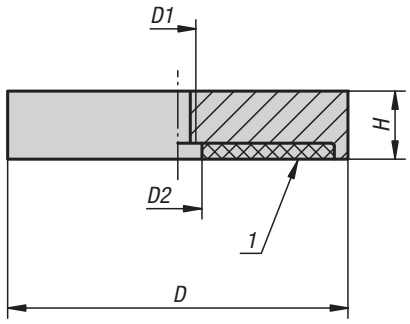
KIPP Magnets shallow pot with countersink hard ferrite

Order No.	D	D1	D2	H	Magnetic force N
K0555.01	16 ±0,15	3,3	7	4,5	14
K0555.02	20 ±0,15	4,2	9	6	27
K0555.03	25 ±0,15	5,5	11	7	36
K0555.04	32 ±0,20	5,5	11	7	72
K0555.05	40 ±0,20	5,5	11	8	90

K0556

Magnets shallow pot with internal thread

NdFeB





Material:
Housing, steel.
Magnetic core NdFeB.

Version:
Housing, galvanized.

Sample order:
K0556.01

Note:
Shielded system

Temperature range:
max. 80°C.

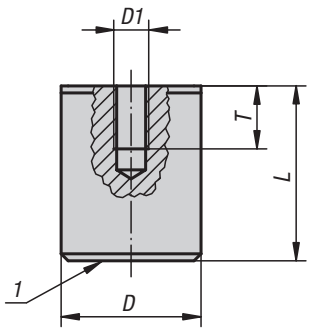
Drawing reference:
1) magnetic face

KIPP Magnets shallow pot with internal thread NdFeB

Order No.	D	D1	D2	H	Magnetic force N
K0556.01	32	M5	5,5	7	330
K0556.02	40	M5	10,5	8	550
K0556.03	63	M10	11,7	14	1100
K0556.04	75	M10	13	15	1750

K0557

Magnets deep pot





Material:
Housing, steel.
Magnetic core AlNiCo.

Version:
Housing painted red.

Sample order:
K0557.01

Note:
Hard magnet in aluminium housing and steel jacket. Shielded system. Pot magnets are used for retaining, lifting and mounting in fixtures.
Due to the painted surface, the diameter D can be up to +0.8 mm.

Temperature range:
max. 450°C.

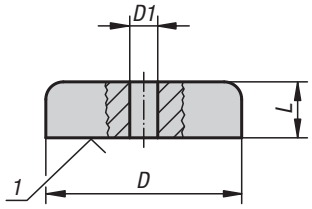
Drawing reference:
1) magnetic face

KIPP Magnets deep pot

Order No.	D	D1	L	T	Magnetic force N
K0557.01	17	M6	16	4	18
K0557.02	21	M6	19	5	28
K0557.03	27	M6	25	6	65
K0557.04	35	M6	30	9	115
K0557.05	65	M12	43	13	400

K0558

Magnets shallow pot





Material:
Housing, steel.
Magnetic core AlNiCo.

Version:
Housing painted red.

Sample order:
K0558.01

Note:
Shielded system. Shallow pot magnets are used in fixtures with minimal space.

Temperature range:
max. 450°C.

On request:
Other colours.

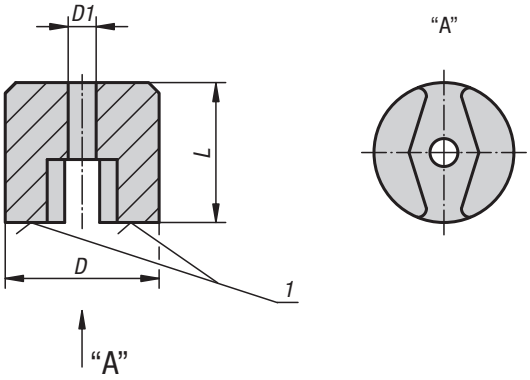
Drawing reference:
1) magnetic face

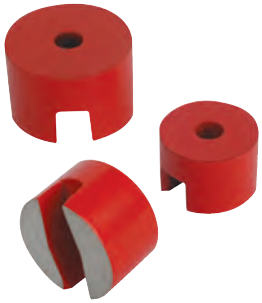
KIPP Magnets shallow pot

Order No.	D	D1	L	Magnetic force N
K0558.01	19	3,5	8	30
K0558.02	29	5	9	55
K0558.03	38	5	10,5	95

K0559

Magnets button





Material:
Magnetic core AlNiCo.

Version:
painted red.

Sample order:
K0559.01

Note:
Split attractive surface with through hole. Non-shielded system. Button magnets are used in laboratories, inspection rooms and for holding metal objects.

Temperature range:
max. 450°C.

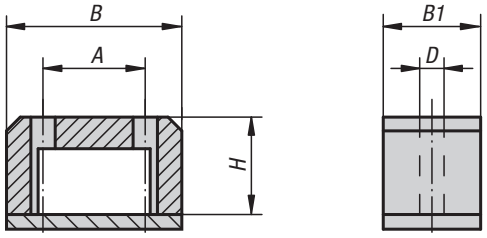
Drawing reference:
1) magnetic face

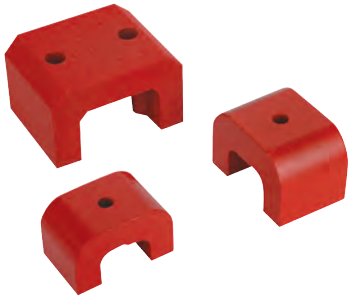
KIPP Magnets button

Order No.	D	D1	L	Magnetic force N
K0559.01	13	4,2	10	7
K0559.02	19	5,4	13	19
K0559.03	25	5,4	16	29
K0559.04	32	7	25	66

K0560

Magnets strong





Material:
Magnetic core AlNiCo.

Version:
painted red.

Sample order:
K0560.01

Note:
Horseshoe magnets with high attractive force. Non-shielded system. The magnets are supplied with a galvanised protective plating and are used for holding, sorting and lifting.
Sizes 1, 2 and 3 have only one attachment hole in the centre.

Temperature range:
max. 450°C.

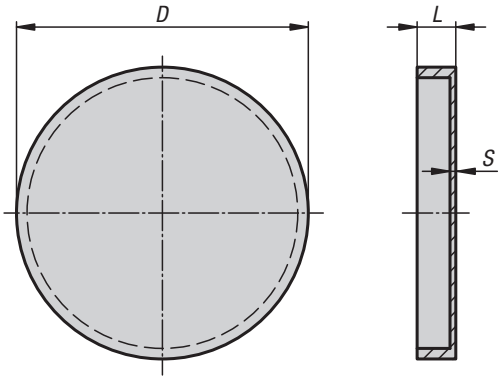
KIPP Magnets strong

Order No.	Size	A	B	B1	D	H	Magnetic force N
K0560.01	1	-	30	20	5	20	45
K0560.02	2	-	40	25	5	25	90
K0560.03	3	-	45	29	5	30	120
K0560.04	4	32	57	45	8	35	230
K0560.05	5	38	70	57	8	41	320

K0561

Protective rubber caps

for shallow pot magnets







Material:
Synthetic rubber.

Version:
black.

Sample order:
K0561.50

Note:
For protecting sensitive surfaces. The rubber protective caps are slipped over the magnetic surfaces. The shear force with which the magnet can be displaced is doubled and achieves almost the original attractive force of the magnet.

Temperature range:
max. 60°C.

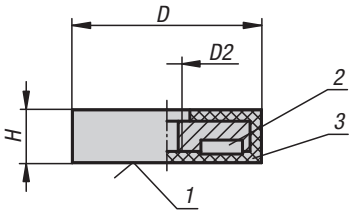
KIPP Protective rubber caps for shallow pot magnets

Order No.	D	L	S
K0561.50	52	6	0,5
K0561.63	65	8	0,5
K0561.80	83	11	0,5

Magnets shallow pot with internal thread

NdFeB, with rubber protective jacket





Material:
Housing, steel.
Magnetic core NdFeB (neodym).
Protective rubber jacket, synthetic rubber.

Version:
Housing, galvanized.
Black protective rubber jacket.

Sample order:
K0562.01

Note:
Shallow pot magnet with internal thread. Shielded system. With rubber protective jacket for protecting sensitive surfaces. The coefficient of friction is increased by the rubber jacket so that high lateral friction is achieved.

Temperature range:
max. 60°C.

Drawing reference:
1) magnetic face
2) magnet
3) rubber

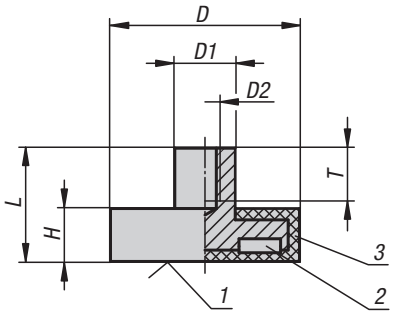
KIPP Magnets shallow pot with internal thread NdFeB, with rubber protective jacket

Order No.	D	D2	H	Magnetic force N
K0562.01	22	M4	6	35
K0562.02	31	M5	6	75
K0562.03	43	M4	6	85
K0562.04	66	M6	8,5	180
K0562.05	88	M6	8	420

Magnets shallow pot with tapped pin

NdFeB, with rubber protective jacket





Material:
Housing, steel.
Magnetic core NdFeB (neodym).
Protective rubber jacket, synthetic rubber.

Version:
Housing, galvanized.
Black protective rubber jacket.

Sample order:
K0563.01

Note:
Shallow pot magnets with tapped pin, shielded system. With rubber protective jacket for protecting sensitive surfaces. The coefficient of friction is increased by the rubber jacket so that high lateral friction is achieved.

Temperature range:
max. 60°C.

Drawing reference:
1) magnetic face
2) magnet
3) rubber

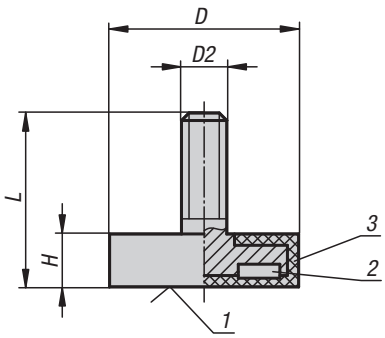
KIPP Magnets shallow pot with tapped pin NdFeB, with rubber protective jacket

Order No.	D	D1	D2	H	L	T	Magnetic force N
K0563.01	12	8	M4	7	14,8	6	10
K0563.02	22	8	M4	6	11,5	6	50
K0563.03	31	8	M4	6	11,5	5	75
K0563.04	43	8	M4	6	10,5	5	85
K0563.05	66	10	M5	8,2	15	8	180
K0563.06	88	12	M8	8,2	17	11	420

Magnets shallow pot with threaded pin

NdFeB, with rubber protective jacket





Material:
Housing, steel.
Magnetic core NdFeB (neodym).
Protective rubber jacket, synthetic rubber.

Version:
Housing, galvanized.
Black protective rubber jacket.

Sample order:
K0564.01

Note:
Shallow pot magnets with threaded pin, shielded system. With rubber protective jacket for protecting sensitive surfaces. The coefficient of friction is increased by the rubber jacket, so that high lateral friction is achieved.

Temperature range:
max. 60°C

Drawing reference:
1) magnetic face
2) magnet
3) rubber

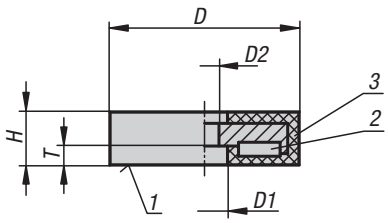
KIPP Magnets shallow pot with threaded pin NdFeB, with rubber protective jacket

Order No.	D	D2	H	L	Magnetic force N
K0564.01	22	M4	6	12,5	50
K0564.02	43	M6	6	21	85
K0564.03	66	M8	8,2	23	180
K0564.04	88	M8	8,2	23,5	420

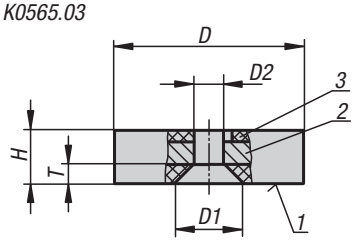
Magnets shallow pot with through hole

NdFeB, with rubber protective jacket





K0565.03



Material:
Housing, steel.
Magnetic core NdFeB (neodym).
Protective rubber jacket, synthetic rubber.

Version:
Housing, galvanized.
Black protective rubber jacket.

Sample order:
K0565.01

Note:
Shallow pot magnets, shielded system. With rubber protective jacket for protecting sensitive surfaces. The coefficient of friction is increased by the rubber jacket so that high lateral friction is achieved.

Temperature range:
max. 60°C.

Drawing reference:
1) magnetic face
2) magnet
3) rubber

KIPP Magnets shallow pot with through hole NdFeB, with rubber protective jacket

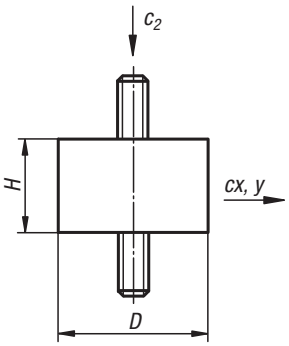
Order No.	D	D1	D2	H	T	Magnetic force N
K0565.01	22	8,2	4	6	3,5	35
K0565.02	31	9	6	6	3,5	75
K0565.03	43	12,8	7,5	6	-	85
K0565.04	57	25,3	8	7,6	3,3	175
K0565.05	66	22	5,5	8,5	3,2	210

Buffer elements



Technical information for rubber buffers

Note:
Our rubber buffers are simple and cost-efficient standard units for elastic mounting. They are ideally suited for compressive and axial loads of a diverse range of applications. With shear stress however, they are substantially less resilient than with compressive stress. The adjacent tables provide a guide to the static load values. By high dynamic alternating loads or high frequencies the loading should be reduced proportionately.



Guide values for static load

Type	D	H	Compressive loads						Shear stresses					
			Spring rate c2 in N/mm			Permissible load F in N			Spring rate cx, y in N/mm			Permissible load F in N		
			hard	medium	soft	hard	medium	soft	hard	medium	soft	hard	medium	soft
A	20	15	300	190	120	500	320	200	60	40	30	190	120	70
A	30	15	670	410	250	1100	700	400	90	60	40	350	210	130
A	30	30	240	150	100	900	570	340	50	30	20	430	280	170
A	40	30	480	300	170	1800	1110	670	90	60	30	770	500	250
A	50	20	240	1500	90	5000	3190	1870	240	160	100	1200	770	460
A	50	40	600	280	220	2800	1750	1050	120	80	50	1280	800	460
A	75	25	5000	2900	1700	8000	5000	3300	410	260	160	2800	1750	1030
A	75	55	650	400	240	4700	3000	1750	130	80	50	2100	1300	800
B	25	20	320	160	120	490	320	190	70	45	25	230	160	90
B	30	20	660	430	260	830	520	310	100	75	50	330	210	130
B	40	30	550	350	210	1250	750	450	110	70	40	520	330	200
B	40	30	550	350	210	1250	750	450	110	70	40	520	330	200
B	50	40	560	370	220	2100	1270	760	120	80	45	930	580	350
B	50	50	350	220	130	1750	1100	650	80	50	30	800	510	310
B	75	50	950	630	330	4700	2910	1720	180	120	80	1900	1200	710
C	20	25	200	130	80	300	190	120	50	30	20	150	90	60
C	30	30	590	380	220	720	450	270	90	60	50	260	170	110
C	40	30	900	570	340	1080	680	410	150	90	60	380	240	140
C	50	30	1700	1090	650	2500	1750	950	210	150	70	470	290	170
C	50	50	360	220	140	1390	870	520	80	40	30	610	390	230
C	75	50	1010	630	370	3650	2050	1200	200	130	80	1560	980	580

Type	D	H	Compressive loads	
			Spring rate c2 in N/mm	Permissible load F in N
			medium	medium
D	25	20	150	260
D	30	20	330	730
D	40	30	250	950
D	50	20	660	1750
D	75	25	1430	4650

Rubber hardness:
hard = Shore 70 medium = Shore 55 soft = Shore 45

For general guidance natural rubber is ca. Shore 55.
static compression load: F (max.) = ca. 6.5 kg/cm² (63.77 N/cm²)
static axial load: F (max.) = ca. 1.5 kg/cm² (14.72 N/cm²)
by 10 % spring displacement, or transverse travel during axial load.
Naturally, much higher loads are possible without damage, but these considerably effect the rubber buffer in its primary purpose. Tensile loads are possible but should be avoided on account of the peak stress at the contact edges and the notch sensitivity of rubber.

Tolerances for rubber buffers:
Permissible dimensional deviations per DIN 7751 Part 2. Permissible hardness deviation ±5 Shore A.

Synoptical Table - Properties of the Individual Material

Rubber material		Main Characteristics - Resistance to									
Abb.	Polymer	Temperature	Tensile strength	Fracture elongation	Aging	Ozone	Petrol	Oil	Acid	Alkalis	Tensile strain
NR (NK)	Natural rubber	-30 °C – +80 °C	1	1	3	4	6	6	3	3	600%
SBR	Styrene-butadiene rubber	-30 °C – +80 °C	5	2	3	4	4	5	3	3	450%
CR	Chloroprene rubber	-20 °C – +110 °C	3	2	2	2	2	2	2	2	450%
NBR	Acrylonitrile-butadiene rubber	-30 °C – +120 °C	5	2	3	3	1	1	4	3	450%
EPDM	Ethylene propylene terpolymer	-30 °C – +130 °C	5	3	1	1	5	4	1	2	450%
SI	Silicone rubber	-60 °C – +200 °C	6	4	1	1	5	4	5	5	500%

1 = excellent 2 = very good 3 = good 4 = moderate 5 = low 6 = insufficient

Rubber buffers

steel or stainless steel, type A



KIPP Rubber buffers, steel or stainless steel, type A

Order No.	Main material	D	G	L	H	Spring stiffness N/mm	Load N
K0566.00800855	Steel	8	M3	6	8	24	31
K0566.01001055	Steel	10	M4	10	10	35	32
K0566.01001555	Steel	10	M4	10	15	50	50
K0566.01500855	Steel	15	M4	10	8	130	104
K0566.01501055	Steel	15	M4	10	10	122	122
K0566.01501555	Steel	15	M4	10	15	59	88
K0566.02000855	Steel	20	M6	18	8	725	580
K0566.02001055	Steel	20	M6	18	10	300	300
K0566.02001555	Steel	20	M6	18	15	200	300
K0566.02002055	Steel	20	M6	18	20	133	332
K0566.02002555	Steel	20	M6	18	25	90	270
K0566.02501055	Steel	25	M6	18	10	800	800
K0566.02501555	Steel	25	M6	18	15	294	441
K0566.02502055	Steel	25	M6	18	20	200	500
K0566.02502555	Steel	25	M6	18	25	94	282
K0566.02503055	Steel	25	M6	18	30	70	280
K0566.03001555	Steel	30	M8	23	15	587	880
K0566.03002055	Steel	30	M8	23	20	318	795
K0566.03002555	Steel	30	M8	23	25	183	549
K0566.03003055	Steel	30	M8	23	30	150	600
K0566.03004055	Steel	30	M8	23	40	77	385
K0566.04001555	Steel	40	M8	23	15	1250	1875
K0566.04002055	Steel	40	M8	23	20	565	1412
K0566.04003055	Steel	40	M8	23	30	300	1200
K0566.04004055	Steel	40	M8	23	40	189	945
K0566.05002055	Steel	50	M10	28	20	1300	3250
K0566.05002555	Steel	50	M10	28	25	667	2000
K0566.05003055	Steel	50	M10	28	30	500	2000
K0566.05004055	Steel	50	M10	28	40	300	1500
K0566.05005055	Steel	50	M10	28	50	193	1153
K0566.06004055	Steel	60	M10	28	40	377	1885
K0566.07004555	Steel	70	M10	28	45	410	2255
K0566.07502555	Steel	75	M12	37	25	1655	4965
K0566.07504055	Steel	75	M12	37	40	717	3585
K0566.07505055	Steel	75	M12	37	50	470	2820
K0566.07505555	Steel	75	M12	37	55	405	2835
K0566.015015551	Stainless steel	15	M4	12	15	59	88
K0566.020015551	Stainless steel	20	M6	18	15	200	300
K0566.025020551	Stainless steel	25	M6	18	20	200	500
K0566.030020551	Stainless steel	30	M8	23	20	318	795
K0566.030025551	Stainless steel	30	M8	23	25	183	549
K0566.040030551	Stainless steel	40	M8	23	30	300	1200

Material:
Metal parts steel grade 5.6 or stainless steel.
Elastomer natural rubber, medium hardness, Shore 55A.

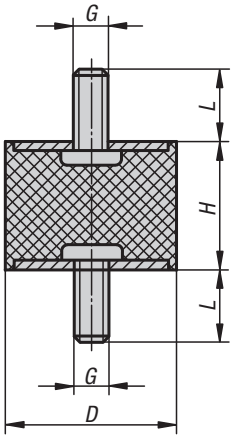
Version:
Steel galvanized.
Stainless steel bright.

Sample order:
K0566.00800855

Note:
The rubber buffers are widely-used construction elements for elastic mounting. They are used, among other things, as mountings for aggregates, motors, compressors, pumps and testing machinery.

Temperature range:
-30°C to +80°C.

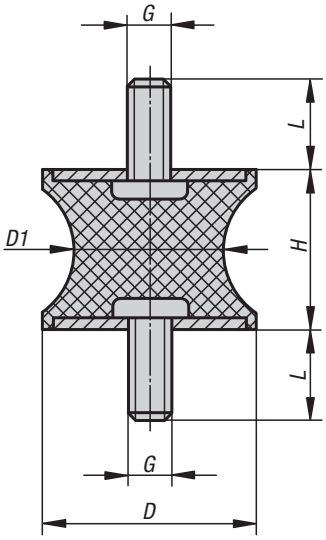
On request:
Other Shore grades.



Rubber buffers

type AT tapered





Material:
Metal parts, steel, grade 5.6.
Elastomer natural rubber, medium hardness, Shore 57A.

Version:
Steel galvanized.

Sample order:
K0567.01001057

Note:
The rubber buffers are widely-used construction elements for elastic mounting. They are used, among other things, as mountings for aggregates, motors, compressors, pumps and testing machinery.
Rubber buffers with tapered rubber contour reduce high edge loads of the rubber by radial deflection and so increase the components service life.

Temperature range:
-30°C to +80°C.

On request:
Other Shore grades.

KIPP Rubber buffers type AT tapered

Order No.	D	D1	H	G	L	Spring stiffness N/mm	Load N
K0567.01001057	10	8	10	M4	13	31	37
K0567.01501557	15	12	15	M4	13	71	135
K0567.02001557	20	14	15	M6	18	177	283
K0567.03002057	30	22	20	M8	23	212	763
K0567.04003057	40	33	30	M8	23	202	1111
K0567.04004857	40	20	48	M8	23	101	626
K0567.05003057	50	40	30	M10	28	351	1229
K0567.07504057	75	50	40	M12	37	466	2330

Rubber buffers

steel or stainless steel, type B



Material:
Metal parts steel grade 5.6 or stainless steel.
Elastomer natural rubber, medium hardness, Shore 55A.

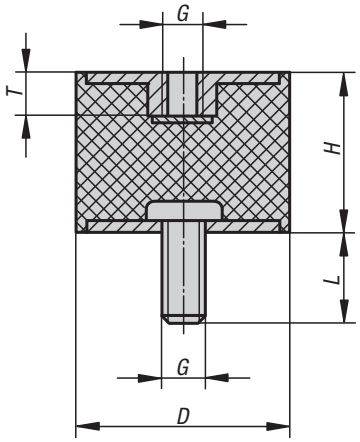
Version:
Steel galvanized.
Stainless steel bright.

Sample order:
K0568.00800855

Note:
The rubber buffers are widely-used construction elements for elastic mounting. They are used, among other things, as mountings for aggregates, motors, compressors, pumps and testing machinery.

Temperature range:
-30°C to +80°C.

On request:
Other Shore grades.



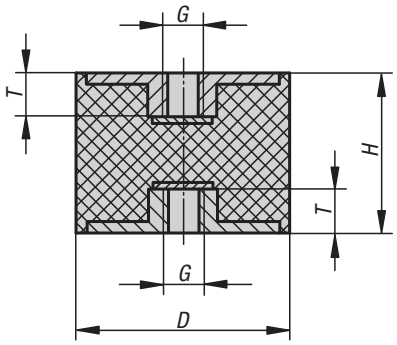
KIPP Rubber buffers, steel or stainless steel, type B

Order No.	Main material	D	H	G	L	T	Spring stiffness N/mm	Load N
K0568.00800855	Steel	8	8	M3	6	3	35	17
K0568.01001055	Steel	10	10	M4	10	4	75	75
K0568.01001555	Steel	10	15	M4	10	4	50	60
K0568.01500855	Steel	15	10	M4	10	4	130	130
K0568.01501555	Steel	15	15	M4	10	4	100	120
K0568.02001555	Steel	20	15	M6	18	6	325	390
K0568.02002055	Steel	20	20	M6	18	6	130	260
K0568.02002555	Steel	20	25	M6	18	6	95	210
K0568.02501555	Steel	25	15	M6	18	6	333	399
K0568.02502055	Steel	25	20	M6	18	6	195	410
K0568.02502555	Steel	25	25	M6	18	6	117	257
K0568.02503055	Steel	25	30	M6	18	6	100	300
K0568.03001555	Steel	30	15	M8	23	8	590	708
K0568.03002055	Steel	30	20	M8	23	8	280	560
K0568.03002555	Steel	30	25	M8	23	8	180	396
K0568.03003055	Steel	30	30	M8	23	8	168	504
K0568.03004055	Steel	30	40	M8	23	8	88	308
K0568.04002055	Steel	40	20	M8	23	8	700	840
K0568.04003055	Steel	40	30	M8	23	8	273	820
K0568.04004055	Steel	40	40	M8	23	8	189	660
K0568.05002055	Steel	50	20	M10	28	10	1471	2500
K0568.05002555	Steel	50	25	M10	28	10	630	1386
K0568.05003055	Steel	50	30	M10	28	10	545	1635
K0568.05004055	Steel	50	40	M10	28	10	310	1116
K0568.05005055	Steel	50	50	M10	28	10	180	900
K0568.06004055	Steel	60	40	M10	28	10	500	1750
K0568.07004555	Steel	70	45	M10	28	10	600	2400
K0568.07502555	Steel	75	25	M12	37	12	2440	3660
K0568.07504055	Steel	75	40	M12	37	12	700	2450
K0568.07505055	Steel	75	50	M12	37	12	520	2600
K0568.07505555	Steel	75	55	M12	37	12	396	2178
K0568.008008551	Stainless steel	8	8	M3	8	3	35	17
K0568.010010551	Stainless steel	10	10	M4	12	4	75	75
K0568.015010551	Stainless steel	15	10	M4	12	4	-	-
K0568.020020551	Stainless steel	20	20	M6	18	6	130	260
K0568.025020551	Stainless steel	25	20	M6	18	6	195	410
K0568.030020551	Stainless steel	30	20	M8	23	8	280	560
K0568.040020551	Stainless steel	40	20	M8	23	8	700	840

Rubber buffers

steel or stainless steel, type C





Material:
Metal parts steel grade 5.6 or stainless steel.
Elastomer natural rubber, medium hardness, Shore 55A.

Version:
Steel galvanized.
Stainless steel bright.

Sample order:
K0569.01001055

Note:
The rubber buffers are widely-used construction elements for elastic mounting. They are used, among other things, as mountings for aggregates, motors, compressors, pumps and testing machinery.

Temperature range:
-30°C to +80°C.

On request:
Other Shore grades.

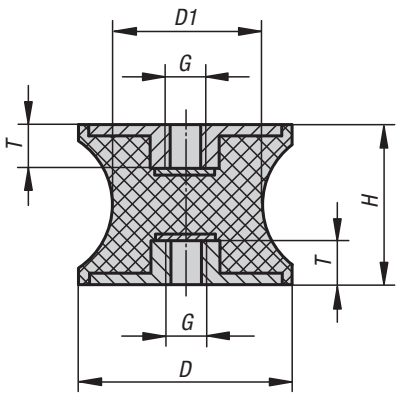
KIPP Rubber buffers, steel or stainless steel, type C

Order No.	Main material	D	H	G	T	Spring stiffness N/mm	Load N
K0569.01001055	Steel	10	10	M4	4	100	50
K0569.01001555	Steel	10	15	M4	4	50	50
K0569.01501555	Steel	15	15	M4	4	100	100
K0569.02002055	Steel	20	20	M6	6	230	276
K0569.02002555	Steel	20	25	M6	6	120	180
K0569.02502055	Steel	25	20	M6	6	230	276
K0569.02502555	Steel	25	25	M6	6	110	165
K0569.02503055	Steel	25	30	M6	6	80	160
K0569.03002055	Steel	30	20	M8	8	425	637
K0569.03003055	Steel	30	30	M8	8	175	350
K0569.03004055	Steel	30	40	M8	8	133	400
K0569.04003055	Steel	40	30	M8	8	530	1060
K0569.04004055	Steel	40	40	M8	8	222	666
K0569.05003055	Steel	50	30	M10	10	680	1360
K0569.05004055	Steel	50	40	M10	10	333	1000
K0569.05005055	Steel	50	50	M10	10	190	665
K0569.07504055	Steel	75	40	M12	12	750	2250
K0569.07505055	Steel	75	50	M12	12	636	2225
K0569.010010551	Stainless steel	10	10	M4	4	100	50
K0569.015015551	Stainless steel	15	15	M4	4	100	100
K0569.020020551	Stainless steel	20	20	M6	6	230	276
K0569.025025551	Stainless steel	25	25	M6	6	110	165
K0569.030020551	Stainless steel	30	20	M8	8	425	637
K0569.030030551	Stainless steel	30	30	M8	8	175	350
K0569.040030551	Stainless steel	40	30	M8	8	530	1060

Rubber buffers

type CT tapered





Material:
Metal parts, steel, grade 5.6.
Elastomer natural rubber, medium hardness, Shore 57A.

Version:
Steel galvanized.

Sample order:
K0570.01501557

Note:
The rubber buffers are widely-used construction elements for elastic mounting. They are used, among other things, as mountings for aggregates, motors, compressors, pumps and testing machinery.
Rubber buffers with tapered rubber contour reduce high edge loads of the rubber by radial deflection and so increase the components service life.

Temperature range:
-30°C to +80°C.

On request:
Other Shore grades.

KIPP Rubber buffers type CT tapered

Order No.	D	D1	H	G	T	Spring stiffness N/mm	Load N
K0570.01501557	15	12	15	M4	4	111	122
K0570.02001557	20	14	15	M6	6	227	227
K0570.03002057	30	22	20	M8	8	252	504
K0570.04003057	40	33	30	M8	8	199	796
K0570.04004857	40	20	48	M8	8	111	555
K0570.05003057	50	40	30	M10	10	499	998
K0570.07504057	75	50	40	M12	12	597	2030

Rubber buffers

steel or stainless steel, type D

KIPP Rubber buffers, steel or stainless steel, type D

Order No.	Main material	D	H	G	L	Spring stiffness N/mm	Load N
K0571.00800855	Steel	8	8	M3	6	40	40
K0571.01001055	Steel	10	10	M4	10	35	35
K0571.01001555	Steel	10	15	M4	10	26	40
K0571.01500655	Steel	15	6	M4	10	175	88
K0571.01500855	Steel	15	8	M4	10	187	187
K0571.01501055	Steel	15	10	M4	10	100	100
K0571.01501555	Steel	15	15	M4	10	50	100
K0571.02000555	Steel	20	5	M6	18	135	95
K0571.02000855	Steel	20	8	M6	18	250	250
K0571.02001055	Steel	20	10	M6	18	240	240
K0571.02001555	Steel	20	15	M6	18	110	220
K0571.02002055	Steel	20	20	M6	18	75	225
K0571.02002555	Steel	20	25	M6	18	65	227,5
K0571.02500855	Steel	25	8	M6	18	850	850
K0571.02501055	Steel	25	10	M6	18	400	400
K0571.02501555	Steel	25	15	M6	18	210	420
K0571.02502055	Steel	25	20	M6	18	140	420
K0571.02502555	Steel	25	25	M6	18	100	350
K0571.02503055	Steel	25	30	M6	18	79	316
K0571.03001555	Steel	30	15	M8	23	270	540
K0571.03002055	Steel	30	20	M8	23	238	714
K0571.03002555	Steel	30	25	M8	23	153	535,5
K0571.03003055	Steel	30	30	M8	23	127	508
K0571.03004055	Steel	30	40	M8	23	88	528
K0571.04001555	Steel	40	15	M8	23	710	1420
K0571.04002055	Steel	40	20	M8	23	365	1095
K0571.04003055	Steel	40	30	M8	23	205	820
K0571.04004055	Steel	40	40	M8	23	143	858
K0571.05002055	Steel	50	20	M10	28	646	1938
K0571.05003055	Steel	50	30	M10	28	354	1416
K0571.05004055	Steel	50	40	M10	28	230	1380
K0571.05005055	Steel	50	50	M10	28	160	1280
K0571.06004055	Steel	60	40	M10	28	317	1902
K0571.07002555	Steel	70	25	M10	28	980	3430
K0571.07004555	Steel	70	45	M10	28	438	3066
K0571.07502555	Steel	75	25	M12	37	1318	4613
K0571.07504055	Steel	75	40	M12	37	643	3858
K0571.07505055	Steel	75	50	M12	37	472	3776
K0571.07505555	Steel	75	55	M12	37	310	3100
K0571.008008551	Stainless steel	8	8	M3	8	40	40
K0571.010010551	Stainless steel	10	10	M4	10	35	35
K0571.015015551	Stainless steel	15	15	M4	10	50	100
K0571.020015551	Stainless steel	20	15	M6	18	110	220
K0571.025020551	Stainless steel	25	20	M6	18	140	420
K0571.030030551	Stainless steel	30	30	M8	23	127	508
K0571.040030551	Stainless steel	40	30	M8	23	205	820



Material:
Metal parts steel grade 5.6 or stainless steel.
Elastomer natural rubber, medium hardness, Shore 55A.

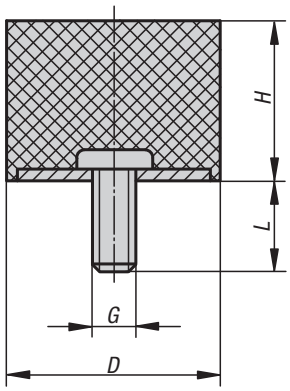
Version:
Steel galvanized.
Stainless steel bright.

Sample order:
K0571.00800855

Note:
Rubber buffers are used, among other things for mounting aggregates and as elastic buffers to limit the travel of moving masses or as feet that are not firmly fixed in the floor or where the floor is sensitive i.e. office equipment.

Temperature range:
-30°C to +80°C.

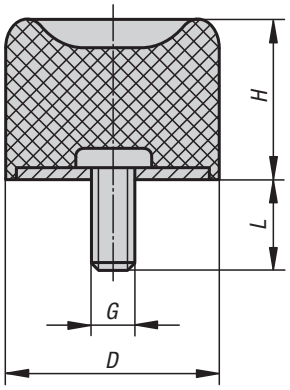
On request:
Other Shore grades.



Rubber buffers

type DS suction foot





Material:
Metal parts, steel, grade 5.6.
Elastomer natural rubber, medium hardness, Shore 57A.

Version:
Steel galvanized.

Sample order:
K0572.01501457

Note:
Rubber buffers are used, among other things for mounting aggregates and as elastic buffers to limit the travel of moving masses.

Temperature range:
-30°C to +80°C.

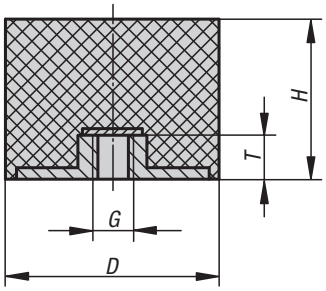
On request:
Other Shore grades.

KIPP Rubber buffers type DS suction foot

Order No.	D	H	G	L	Spring stiffness N/mm	Load N
K0572.01501457	15	14	M4	13	50	100
K0572.02501857	25	18,5	M6	18	95	285
K0572.03002857	30	28,5	M8	23	97	340
K0572.04002857	40	28	M8	23	120	480
K0572.05002857	50	28	M10	28	220	990
K0572.07003057	70	30	M10	28	360	2160
K0572.07503757	75	37	M12	37	390	3510
K0572.10005057	100	50	M16	42	540	8100

Rubber buffers

type E





Material:
Metal parts, steel, grade 5.6.
Elastomer natural rubber, medium hardness, Shore 55A.

Version:
Steel galvanized.

Sample order:
K0573.00800855

Note:
The rubber buffers are widely-used construction elements for elastic mounting. They are used, among other things, as mountings for aggregates, motors, compressors, pumps and testing machinery.

Temperature range:
-30°C to +80°C.

On request:
Other Shore grades.

KIPP Rubber buffers type E

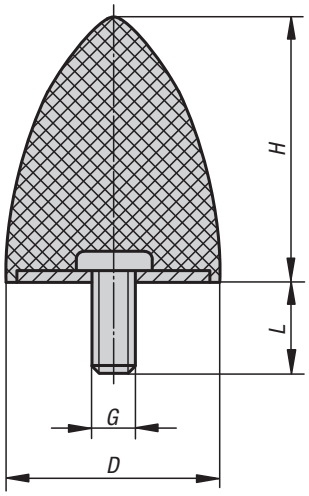
Order No.	D	H	G	T	Spring stiffness N/mm	Load N
K0573.00800855	8	8	M3	3	88	44
K0573.01501255	15	12	M4	4	165	182
K0573.01501555	15	15	M4	4	100	130
K0573.01502055	15	20	M4	4	75	113
K0573.02001555	20	15	M6	6	145	246
K0573.02002055	20	20	M6	6	94	216
K0573.02002555	20	25	M6	6	65	169
K0573.02501555	25	15	M6	6	270	540
K0573.02502555	25	25	M6	6	105	315
K0573.02503055	25	30	M6	6	85	281
K0573.02504055	25	40	M6	6	75	300
K0573.03001555	30	15	M8	8	545	491
K0573.03002555	30	25	M8	8	160	416
K0573.03003055	30	30	M8	8	125	425
K0573.03004055	30	40	M8	8	85	315
K0573.04002055	40	20	M8	8	550	660
K0573.04002555	40	25	M8	8	500	1000
K0573.04003055	40	30	M8	8	300	870
K0573.04004055	40	40	M8	8	260	1040
K0573.05002055	50	20	M10	10	860	860
K0573.05002555	50	25	M10	10	700	1400
K0573.05003055	50	30	M10	10	450	1575
K0573.05004055	50	40	M10	10	350	1400
K0573.05005055	50	50	M10	10	170	850
K0573.06003055	60	30	M10	10	700	1400
K0573.06004055	60	40	M10	10	400	1600
K0573.06005055	60	50	M10	10	240	1200
K0573.07004255	70	42	M10	10	520	2600
K0573.07004555	70	45	M10	10	680	3060
K0573.07502555	75	25	M12	12	1211	1816
K0573.07503055	75	30	M12	12	1090	2289
K0573.07504055	75	40	M12	12	500	2000
K0573.07505055	75	50	M12	12	550	2750

Notes

Rubber buffers

parabolic





Material:
Metal parts, steel, grade 5.6.
Elastomer natural rubber, medium hardness, Shore 55A.

Version:
Steel galvanized.

Sample order:
K0574.02002455

Note:
Rubber buffers are robust and effective elastic cushioning elements and shock absorbers. These buffers are ideal for elastic travel limitation and cushioning knocks by mobile and immobile aggregates and machines and as use as door stops.

Temperature range:
-30°C to +80°C.

On request:
Other Shore grades.

KIPP Rubber buffers, parabolic

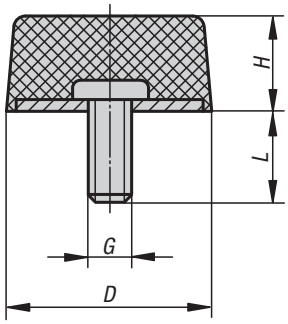
Order No.	D	H	G	L	Spring stiffness N/mm	Load N
K0574.02002455	20	24	M6	18	14	500
K0574.03003655	30	36	M8	20	15	750
K0574.03504055	35	40	M8	23	-	-
K0574.05005855	50	58	M10	28	30	3000
K0574.05006755	50	67	M8	38	30	3200
K0574.07508955	75	89	M12	37	50	8000

K0575

Rubber buffers

conical





Material:
Metal parts, steel, grade 5.6.
Elastomer natural rubber, medium hardness, Shore 55A.

Version:
Steel galvanized.

Sample order:
K0575.02501755

Note:
Rubber buffers are robust and effective elastic cushioning elements and shock absorbers. These buffers are ideal for elastic travel limitation and cushioning knocks by mobile and immobile aggregates and machines and as use as door stops.

Temperature range:
-30°C to +80°C.

On request:
Other Shore grades.

KIPP Rubber buffers, conical

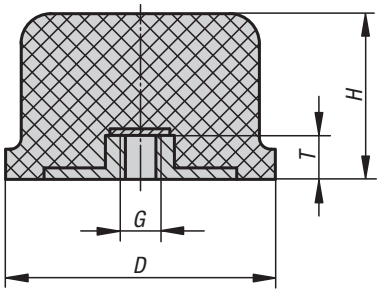
Order No.	D	H	G	L	Spring stiffness N/mm	Load N
K0575.02501755	25	17	M6	18	3,7	678
K0575.05001855	50	18	M10	28	4	3600

K0576

Rubber buffers

spherical





Material:
Metal parts, steel, grade 5.6.
Elastomer natural rubber, medium hardness, Shore 55A.

Version:
Steel galvanized.

Sample order:
K0576.05003555

Note:
Rubber buffers are robust and effective elastic cushioning elements and shock absorbers. These buffers are ideal for elastic travel limitation and cushioning knocks by mobile and immobile aggregates and machines and as use as door stops.

Temperature range:
-30°C to +80°C.

On request:
Other Shore grades.

KIPP Rubber buffers, spherical

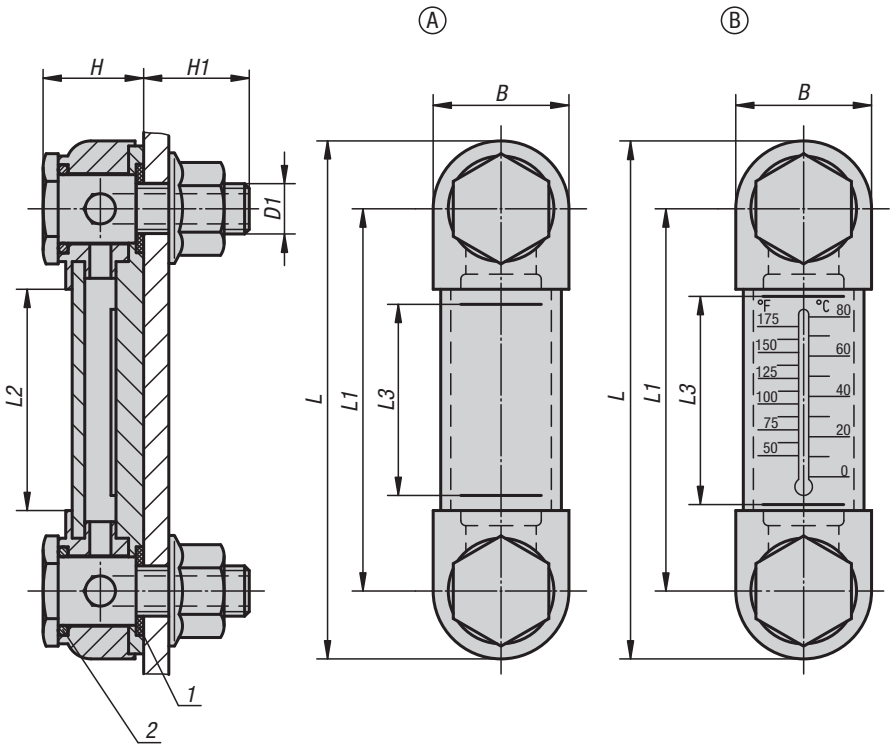
Order No.	D	H	G	T	Spring stiffness N/mm	Load N
K0576.05003555	50	35	M10	10	120	3000
K0576.08006055	80	60	M12	12	150	11000
K0576.12509055	125	93	M16	16	200	20000

Level indicators, screw plugs



Oil level gauges





Material:
Housing thermoplastic polyamide.
O-ring and flat seal rubber (NBR).
Reflector aluminium.
Screw and hex nut steel.

Version:
Transparent housing, high mechanical stability, non-ageing, temperature resistant up to 100 °C.
Pressure resistant at 20 °C up to 10 bar, at 60 °C up to 8 bar.
Reflector painted white, line marks and scale black.
Screw and hexagon nut, galvanized.

Sample order:
K0443.1127

Note:
The oil level gauges can either be fastened as shown in the illustration or directly in the tapped hole. Centre distance for the fastening holes = L1 ±0.3.
The max. tightening torque for the fastening screws is 5 Nm.

Drawing reference:
Form A: without thermometer
Form B: with thermometer

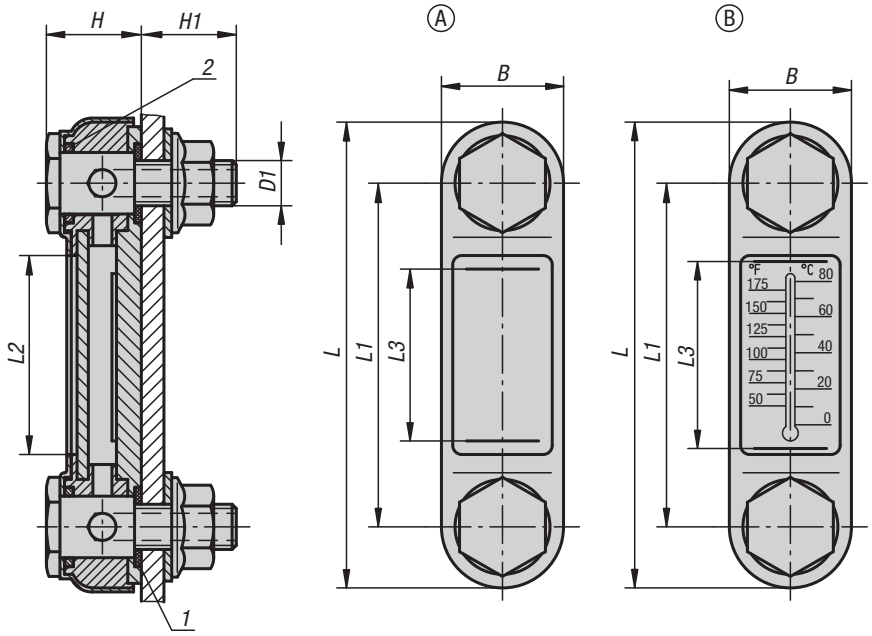
1) flat seal
2) O-ring

KIPP Oil level gauges

Order No.	Form	B	D1	H	H1	L	L1	L2	L3	Number of fastening screws	Thermometer scale
K0443.1076	A	27	M10	20	21	103	76	44	37	2	-
K0443.1127	A	27	M12	19	18	151	127	95	80	2	-
K0443.2076	B	27	M10	20	21	103	76	44	37	2	0 - 80 °C / 50 - 175 °F
K0443.2127	B	27	M12	19	18	151	127	95	80	2	0 - 100 °C / 50 - 200 °F

Oil level gauges





Material:
Housing steel.
Viewing glass thermoplastic polyamide.
O-ring and flat seal rubber (NBR).
Reflector aluminium.
Screw and hex nut steel.

Version:
Housing painted black.
Transparent viewing glass, high mechanical stability, non-ageing, temperature resistant with oil up to 100 °C, with water up to 70 °C.
Reflector painted white, markings and scale black.
Screw and hexagon nut, galvanized.

Sample order:
K0444.107610

Note:
The oil level gauges can either be fastened as shown in the illustration or directly in the threaded hole.
Centre distance for the fastening holes = L1 ±0.5.
The oil level gauges are suitable for tanks operating without pressure.
Maximum operating temperature: 100 °C.

Drawing reference:
Form A: without thermometer
Form B: with thermometer

1) flat seal
2) O-ring

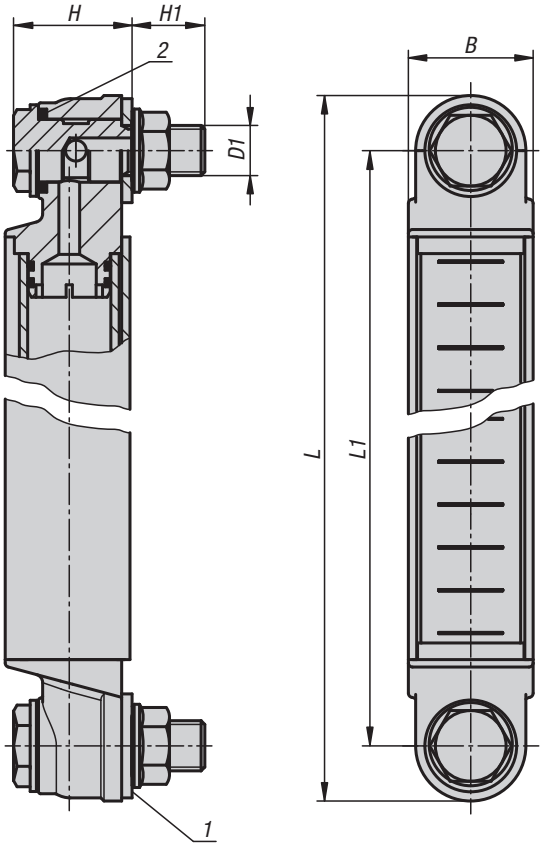
KIPP Oil level gauges

Order No.	Form	B	D1	H	H1	L	L1	L2	L3	Number of fastening screws	Thermometer scale
K0444.107610	A	31	M10	24,5	20	107	76	39	37	2	-
K0444.107612	A	31	M12	24,5	20	107	76	39	37	2	-
K0444.112710	A	31	M10	24,5	20	156	127	90	80	2	-
K0444.112712	A	31	M12	24,5	20	156	127	90	80	2	-
K0444.125412	A	34	M12	33	17	286	254	200	178	2	-
K0444.207610	B	31	M10	24,5	20	107	76	39	37	2	0 - 80 °C / 50 - 175 °F
K0444.207612	B	31	M12	24,5	20	107	76	39	37	2	0 - 80 °C / 50 - 175 °F
K0444.212710	B	31	M10	24,5	20	156	127	90	80	2	0 - 100 °C / 50 - 200 °F
K0444.212712	B	31	M12	24,5	20	156	127	90	80	2	0 - 100 °C / 50 - 200 °F
K0444.225412	B	34	M12	33	17	286	254	200	178	2	0 - 100 °C / 50 -200 °F

Oil level gauge

long version





Material:
Housing aluminium.
Tube polycarbonate.
Caps polyamide.
O-ring and flat seal NBR, Shore 70.
Screw and hex. nut steel.

Version:
Viewing glass transparent.
Screws and hexagon nuts galvanized.

Sample order:
K1100.1400

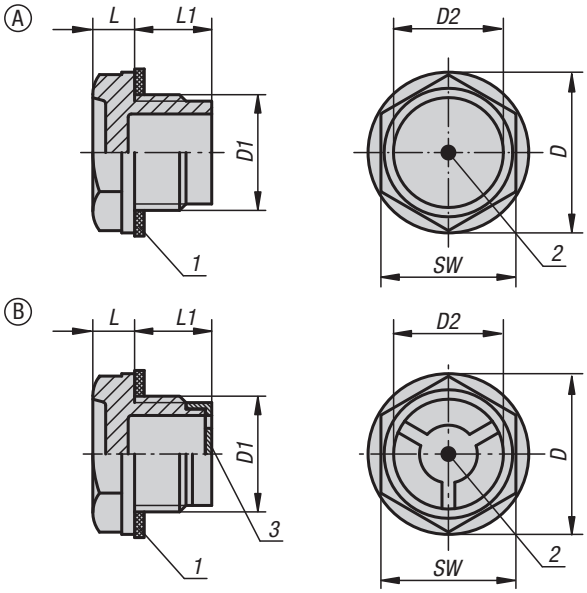
Note:
The oil level gauges can either be fastened as shown in the illustration or directly in the tapped hole. Centre distance for the fastening holes = L1±0.3. The maximum operating temperature is 90 °C. The maximum pressure is 1 bar. The maximum tightening torque of the fastening screws is 5 Nm.

Drawing reference:
1) flat seal
2) O-ring

KIPP Oil level gauge long version

Order No.	B	D1	H	H1	L	L1
K1100.1300	30	M12	30	16,5	325	300
K1100.1400	30	M12	30	16,5	425	400
K1100.1500	30	M12	30	16,5	525	500

Oil level sight glasses





Material:
Housing in thermoplastic polyamide.
Plastic reflector.

Version:
Housing, transparent, high mechanical stability, non-ageing, temperature resistant up to 90 °C; resistant to solvents but not to alcohol or frost.
Flat seal, asbestos-free.
Reflector white.

Sample order:
K0445.143100

On request:
Rubber gasket (NBR).

Drawing reference:
Form A: without reflector
Form B: with reflector

1) flat seal
2) check mark
3) reflector

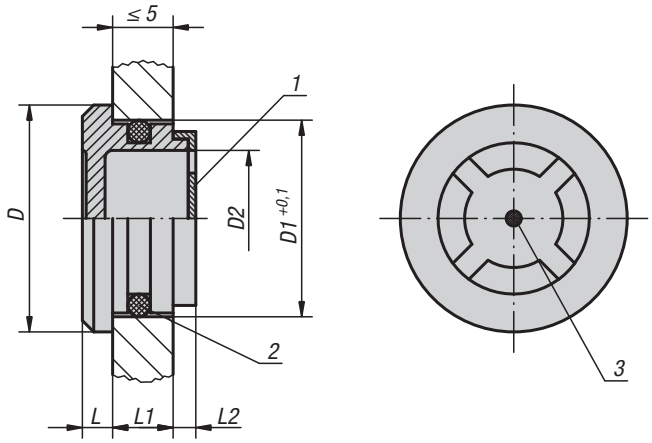
KIPP Oil level sight glasses

Order No.	Form	D	D1	D2	L	L1	SW	Tightening torque max. Nm
K0445.120014	A	20	G1/4	15	7	8	17	6
K0445.122038	A	22	G3/8	14	6,5	10,5	18	8
K0445.128012	A	28	G1/2	16	8	11	24	12
K0445.135034	A	35	G3/4	21	8	12	30	16
K0445.143100	A	43	G1	32	11	12	36	-
K0445.151114	A	51	G1 1/4	33	10	16	42	-
K0445.158112	A	58	G1 1/2	40	12	16	50	-
K0445.174200	A	74	G2	48	12	22	64	-
K0445.1201415	A	20	M14x1,5	15	7	8	17	7
K0445.1221615	A	22	M16x1,5	14	6,5	10	18	8
K0445.1251815	A	25	M18x1,5	16	7	10,5	21	10
K0445.1282015	A	28	M20x1,5	18	7,5	11	24	16
K0445.1282215	A	28	M22x1,5	16	7,5	12,5	24	12
K0445.1362615	A	36	M26x1,5	21	8,5	13,5	30	21
K0445.1362715	A	36	M27x1,5	21	8,5	13,5	30	21
K0445.1514015	A	51	M40x1,5	32	10	17	42	-
K0445.222038	B	22	G3/8	14	6,5	10,5	18	8
K0445.228012	B	28	G1/2	16	8	11	24	12
K0445.235034	B	35	G3/4	21	8	12	30	16
K0445.243100	B	43	G1	32	11	12	36	-
K0445.251114	B	51	G1 1/4	33	10	16	42	-
K0445.258112	B	58	G1 1/2	40	12	16	50	-
K0445.274200	B	74	G2	48	12	22	64	-
K0445.2221615	B	22	M16x1,5	14	6,5	10	18	8
K0445.2251815	B	25	M18x1,5	16	7	10,5	21	10
K0445.2282015	B	28	M20x1,5	18	7,5	11	24	16
K0445.2282215	B	28	M22x1,5	16	7,5	12,5	24	12
K0445.2362615	B	36	M26x1,5	21	8,5	13,5	30	21
K0445.2362715	B	36	M27x1,5	21	8,5	13,5	30	21
K0445.2514015	B	51	M40x1,5	32	10	17	42	-

K0446

Oil level sight glasses

press-in





Material:
Housing thermoplastic polyamide.
O-ring NBR, Shore 70.
Reflector plastic.

Version:
Housing, transparent, high mechanical stability, non-ageing, temperature resistant up to 90 °C, resistant to solvents but not to alcohol or frost.
Reflector white.

Sample order:
K0446.3026

Note:
For use where there is no internal pressure.

Drawing reference:
1) reflector
2) O-ring
3) check mark

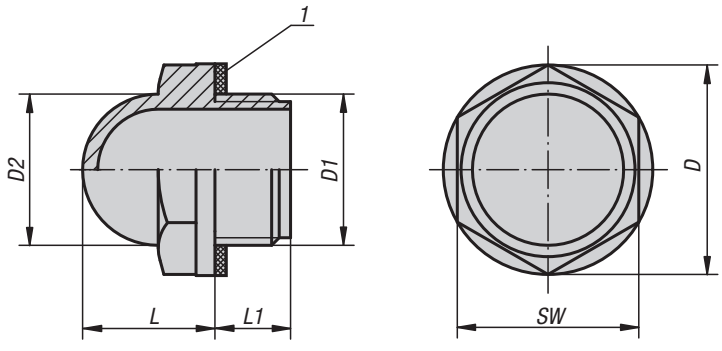
KIPP Oil level sight glasses, press-in

Order No.	D	drill-Ø D1	D2	L	L1	L2
K0446.2420	24	20	14	4	7	3
K0446.3026	30	26	20	4	8	3,5
K0446.3632	36	32	24	4	9	4
K0446.4238	42	38	30	4	10	4
K0446.4440	44	40	32	4	10	4

K0447

Oil level sight glasses

domed





Material:
Housing in thermoplastic polyamide.

Version:
Housing, transparent, high mechanical stability, non-ageing, temperature resistant with oil up to 100 °C, with water up to 70 °C. Resistant to solvents but not alcohol.
Flat seal, asbestos-free.

Sample order:
K0447.28012

On request:
Rubber gasket (NBR).

Drawing reference:
1) flat seal

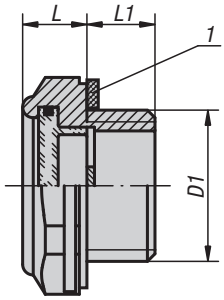
KIPP Oil level sight glasses, domed

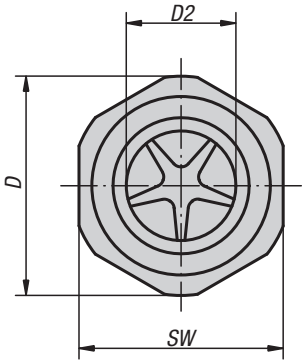
Order No.	D	D1	D2	L	L1	SW	Tightening torque max. Nm
K0447.22038	22	G3/8	15	14	10	19	8
K0447.28012	28	G1/2	20	17	10	24	12
K0447.35034	35	G3/4	25	20	10	30	16
K0447.42100	42	G1	31	24	10,5	36	20

Oil level sight glasses

aluminium







Material:
Housing in aluminium.
Reflector in aluminium or white plastic.
Polyamide viewing lens.

Version:
Transparent viewing lens, temperature-resistant with oil up to 100 °C, with water up to 70 °C.
Flat seal, asbestos-free.

Sample order:
K0448.29012

Note:
The G3/8“ and M18x1.5 versions have a white plastic reflector.

Drawing reference:
1) flat seal

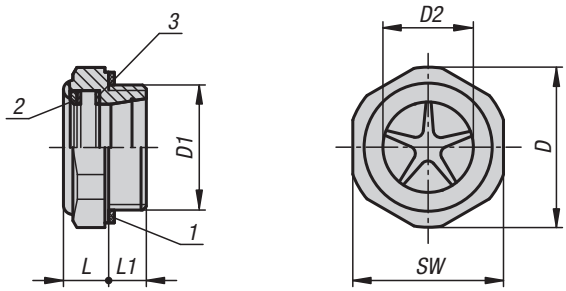
KIPP Oil level sight glasses, aluminium

Order No.	D	D1	D2	L	L1	SW	Tightening torque max. Nm	Pressure load max. bar
K0448.20014	20	G1/4	11	8	8	17	9	10
K0448.24038	24,1	G3/8	12,7	9,5	9	22	12	10
K0448.29012	29,7	G1/2	15	10	9	27	18	10
K0448.36034	35,2	G3/4	21,9	10	11	32	24	10
K0448.42100	44,1	G1	25,1	11	11	40	-	10
K0448.52114	55	G1 1/4	34	13,5	12	50	-	10
K0448.241815	24,5	M18x1,5	13	10	9	22	12	10
K0448.292215	29,5	M22x1,5	16	10	9	27	18	10

Oil level sight glasses

aluminium, glass window





Material:
Housing, reflector in aluminium.
Natural, clear glass viewing lens.
Internal seal, Viton®.

Version:
Viewing lens, temperature-resistant to 150 °C.
Flat seal, asbestos-free.

Sample order:
K0246.29012

Note:
Resists high pressure and heat. Natural glass as the viewing lens ensures optimal light transmission and high surface hardness.

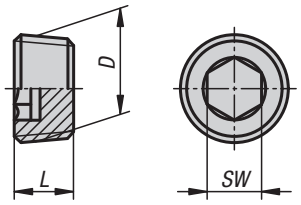
Drawing reference:
1) flat seal
2) external seal
3) internal seal

KIPP Oil level sight glasses, aluminium, glass window

Order No.	D	D1	D2	L	L1	SW	Tightening torque max. Nm	Pressure load max. bar
K0246.29012	29,5	G 1/2	12	10	9	27	18	20
K0246.34034	34,5	G 3/4	16	12	10	32	24	20
K0246.42100	42,5	G 1	23	12	10	40	-	20
K0246.292015	29,5	M20x1,5	12	10	9	27	18	20
K0246.423315	42,5	M33x1,5	23	12	10	40	-	20

Screw plugs with hexagon socket

DIN 906, tapered thread





Material:
Steel or stainless steel 1.4571.

Version:
Steel galvanized.
Stainless steel bright.

Sample order:
K1129.100810

Note:
Screw plugs with hexagon socket and tapered threads are suitable for plugging holes with parallel threads.

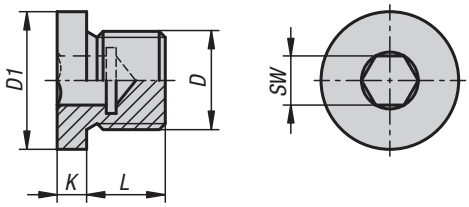
KIPP Screw plugs with hexagon socket with tapered thread DIN 906

Order No. steel	Order No. stainless steel	D	L	SW
K1129.100810	**K1129.200810**	M8x1	8	4
K1129.101010	**K1129.201010**	M10x1	8	5
K1129.101215	**K1129.201215**	M12x1,5	10	6
K1129.101415	**K1129.201415**	M14x1,5	10	7
K1129.101615	**K1129.201615**	M16x1,5	10	8
K1129.101015	**K1129.201815**	M18x1,5	10	8
K1129.102015	**K1129.202015**	M20x1,5	10	10
K1129.102215	**K1129.202215**	M22x1,5	10	10
K1129.102415	**K1129.202415**	M24x1,5	12	12
K1129.102615	-	M26x1,5	12	12
K1129.103015	-	M30x1,5	12	17
K1129.103615	-	M36x1,5	15	19
K1129.104215	-	M42x1,5	18	22
K1129.104815	-	M48x1,5	20	24
K1129.10018	**K1129.2001815**	R1/8	8	5
K1129.10014	**K1129.2001415**	R1/4	10	7
K1129.10038	**K1129.2003815**	R3/8	10	8
K1129.10012	**K1129.2001215**	R1/2	10	10
K1129.10034	**K1129.2003415**	R3/4	12	12
K1129.10100	**K1129.2010015**	R1	12	17
K1129.10114	-	R1 1/4	18	22
K1129.10112	-	R1 1/2	20	24

Screw plugs with collar and hexagon socket

DIN 908





Material:
Steel.

Version:
galvanized.

Sample order:
K1130.100810

Note:
Screw plugs with collar and hexagon socket for plugging holes with parallel threads.

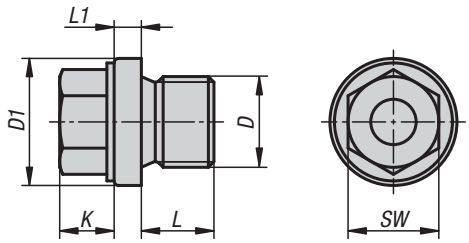
KIPP Screw plugs with collar and hexagon socket DIN 908

Order No.	D	D1	K	L	SW
K1130.100810	M8x1	12	3	8	4
K1130.101010	M10x1	14	3	8	5
K1130.101215	M12x1,5	17	3	12	6
K1130.101415	M14x1,5	19	3	12	6
K1130.101615	M16x1,5	21	3	12	8
K1130.101815	M18x1,5	23	4	12	8
K1130.102015	M20x1,5	25	4	14	10
K1130.102215	M22x1,5	27	4	14	10
K1130.102415	M24x1,5	29	4	14	12
K1130.102615	M26x1,5	31	4	16	12
K1130.102720	M27X2	32	4	16	12
K1130.103015	M30x1,5	36	4	16	17
K1130.103320	M33X2	39	5	16	17
K1130.103615	M36x1,5	42	5	16	19
K1130.104215	M42x1,5	49	5	16	22
K1130.104220	M42X2	49	5	16	22
K1130.104815	M48x1,5	55	5	16	24
K1130.104820	M48X2	55	5	16	24
K1130.10018	G1/8	14	3	8	5
K1130.10014	G1/4	18	3	12	6
K1130.10038	G3/8	22	3	12	8
K1130.10012	G1/2	26	4	14	10
K1130.10034	G3/4	32	4	16	12
K1130.10100	G1	39	5	16	17
K1130.10114	G1 1/4	49	5	16	22
K1130.10112	G1 1/2	55	5	16	24

Screw plugs hex head with collar

DIN 910





Material:
Steel.

Version:
galvanized.

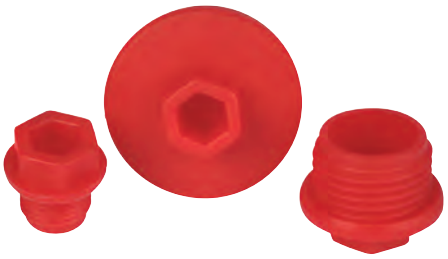
Sample order:
K1131.101010

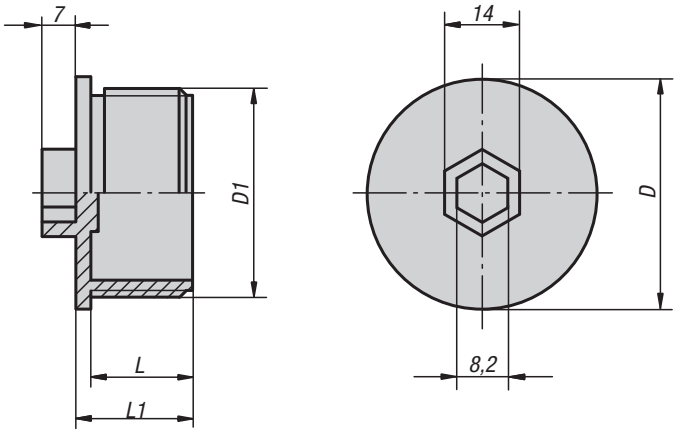
Note:
Screw plugs with collar and hexagonal head for plugging holes with parallel threads.

KIPP Hexagon head screw plugs with collar DIN 910

Order No.	D	D1	K	L	L1	SW
K1131.101010	M10x1	14	6	8	3	10
K1131.101215	M12x1,5	17	6	12	3	13
K1131.101415	M14x1,5	19	6	12	3	13
K1131.101615	M16x1,5	21	6	12	3	17
K1131.101815	M18x1,5	23	8	12	4	17
K1131.102015	M20x1,5	25	8	14	4	19
K1131.102215	M22x1,5	27	8	14	4	19
K1131.102415	M24x1,5	29	9	14	4	22
K1131.102615	M26x1,5	31	10	16	4	24
K1131.102720	M27X2	32	10	16	4	24
K1131.103015	M30x1,5	36	10	16	4	24
K1131.103320	M33X2	39	11	16	5	27
K1131.103615	M36x1,5	42	11	16	5	27
K1131.104215	M42x1,5	49	12	16	5	30
K1131.104220	M42X2	49	12	16	5	30
K1131.104815	M48x1,5	55	12	16	5	30
K1131.104820	M48X2	55	12	16	5	30
K1131.10018	G1/8	14	6	8	3	10
K1131.10014	G1/4	18	6	12	3	13
K1131.10038	G3/8	22	6	12	3	17
K1131.10012	G1/2	26	8	14	4	19
K1131.10034	G3/4	32	10	16	4	24
K1131.10100	G1	39	11	16	5	27
K1131.10114	G1 1/4	49	12	16	5	30
K1131.10112	G1 1/2	55	12	16	5	30

Screw plugs





Material:
Elastomer, soft polyurethane

Version:
Red

Sample order:
K0449.038

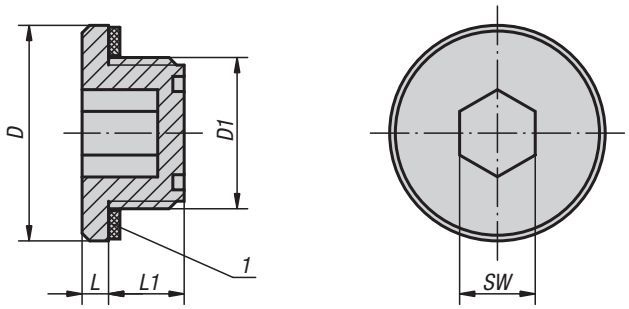
Note:
The double-lip seal guarantees a seal for pressures of 2-3 bar. It also keeps paint out during painting.

KIPP Screw plugs

Order No.	D	D1	L	L1
K0449.018	16,2	G1/8	8	10
K0449.014	18,1	G1/4	9,9	12,5
K0449.038	21	G3/8	9	11
K0449.012	25,2	G1/2	11	14
K0449.034	31,3	G3/4	11,5	14
K0449.100	36	G1	12	15,5

K0450

Screw plugs





KIPP Screw plugs

Order No.	D	D1	L	L1	SW	Tightening torque max. Nm
K0450.18014	18,2	G1/4	2,5	8	6	3
K0450.22038	22,5	G3/8	3,5	10,5	8	6
K0450.28012	28,5	G1/2	3,5	10,5	10	8
K0450.35034	35	G3/4	4	10,5	12	10
K0450.201415	20	M14x1,5	2,5	8	6	3
K0450.221615	22,5	M16x1,5	3,5	11	8	6
K0450.261815	26	M18x1,5	3	10	10	7
K0450.282015	28,5	M20x1,5	3	11	10	7
K0450.282215	28,5	M22x1,5	3,5	10,5	10	7
K0450.352615	35	M26x1,5	3	12	12	10

Material:
Thermoplastic polyamide 66, reinforced with 30% fibreglass.

Version:
Black. Flat seal asbestos-free

Sample order:
K0450.22038

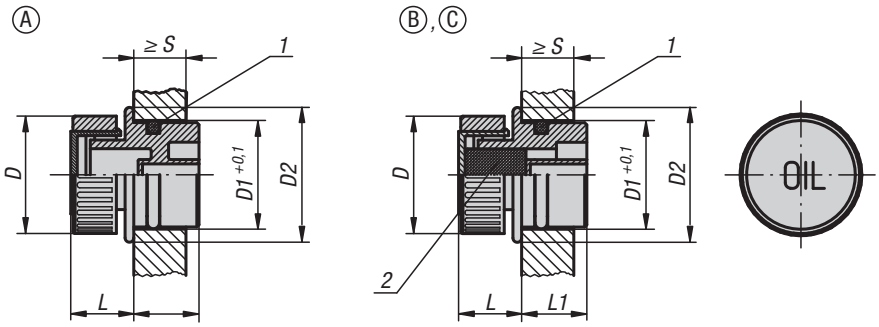
Note:
Temperature resistance:
Continuous operating temperature 100°C.
Short-term operating temperature 120°C.

On request:
O-ring or materials with higher stability.

Drawing reference:
1) flat seal

K0451

Press-in plugs





KIPP Press-in plugs

Order No. Form A	Order No. Form B	Order No. Form C	D	drill-Ø D1	D2	L	L1	S min.
K0451.13018	**K0451.23018**	**K0451.33018**	30	18	23	14	14	8
K0451.13020	**K0451.23020**	**K0451.33020**	30	20	24	14	15,5	8
K0451.13026	**K0451.23026**	**K0451.33026**	30	26	30	14	16,5	9,5
K0451.13030	**K0451.23030**	**K0451.33030**	30	30	34	14	17	9,5

Material:
Housing and cap thermoplastic polyamide 66.
Air filter polyurethane (PU foam).
O-ring rubber (NBR).

Version:
Housing black. Cap red. Filter mesh 50 µm.

Sample order:
K0451.33030

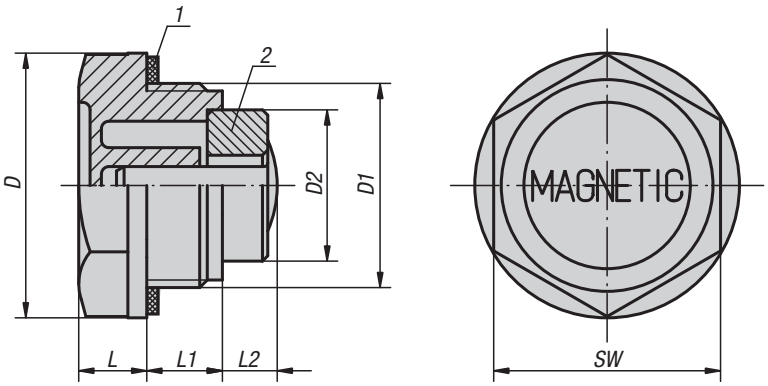
Note:
Temperature resistant up to 100°C.

Drawing reference:
Form A: without vent
Form B: with vent
Form C: with vent and air filter

1) O-ring
2) air filter Form C only

K0452

Screw plugs with magnet





Material:
Thermoplastic polyamide 66. Ferrite permanent magnet.

Version:
Black. Flat seal asbestos-free

Sample order:
K0452.22038

Note:
Temperature resistant with oil up to 100°C, with water up to 70°C.
The magnetic effect of the screw plug attracts iron particles in the oil.
Screwing the plug into the drain outlet diminishes possible damage to mechanical components.

Drawing reference:
1) flat seal
2) magnet

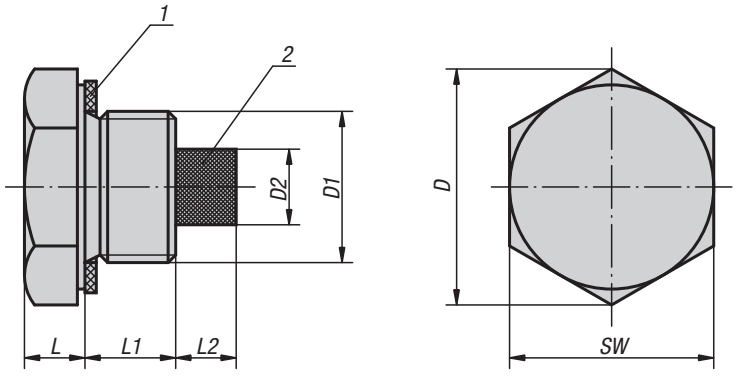
KIPP Screw plugs with magnet

Order No.	D	D1	D2	L	L1	L2	SW
K0452.20014	20	G1/4	8	7	9	5	17
K0452.22038	22	G3/8	13	7,5	10	10	18
K0452.27012	27	G1/2	13	8	11	9	24
K0452.34034	34	G3/4	19,6	9	11	6,5	30
K0452.42100	42	G1	19,6	10,5	12	14	35
K0452.201415	20	M14x1,5	8	7	9	5	17

K0453

Screw plugs aluminium

with magnet





Material:
Aluminium. Ferrite permanent magnet.

Version:
Bright. Flat seal asbestos-free.

Sample order:
K0453.24038

Note:
The magnetic effect of the screw plug attracts iron particles in the oil.
Screwing the plug into the drain outlet diminishes possible damage to mechanical components.

Drawing reference:
1) flat seal
2) magnet

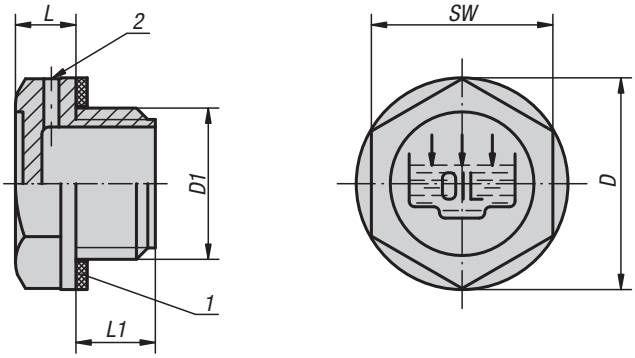
KIPP Screw plugs aluminium with magnet

Order No.	D	D1	D2	L	L1	L2	SW
K0453.21014	21	G1/4	5	7	10	6	19
K0453.24038	24,5	G3/8	8	7	10	7	22
K0453.30012	30	G1/2	10	8	10	7	27
K0453.36034	36,5	G3/4	13	8	10	7	34
K0453.42100	42,5	G1	13	8	14	7	40

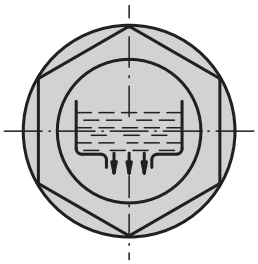
Screw plugs



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Ⓒ



Material:
Thermoplastic polyamide 66

Version:
Black. Flat seal asbestos-free

Sample order:
K0454.142100

Note:
Temperature resistant up to 100°C.

Drawing reference:
Form A: with fill symbol
Form B: with fill symbol and vent hole
Form C: with drain symbol

1) flat seal
2) vent hole Form B only

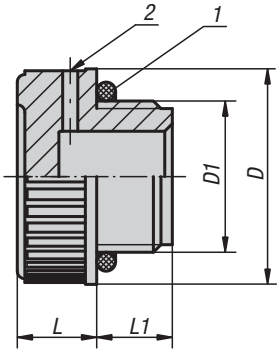
KIPP Screw plugs

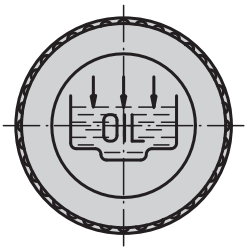
Order No. Form A	Order No. Form B	Order No. Form C	D	D1	L	L1	SW	Tightening torque max. Nm
K0454.119014	K0454.219014	K0454.319014	19,5	G1/4	7	9	17	5
K0454.122038	K0454.222038	K0454.322038	22	G3/8	7,5	10	18	8
K0454.128012	K0454.228012	K0454.328012	28	G1/2	7,5	11	24	9
K0454.134034	K0454.234034	K0454.334034	34	G3/4	9	11	30	11
K0454.142100	K0454.242100	K0454.342100	42	G1	10,5	12	35	-
K0454.151114	K0454.251114	K0454.351114	51	G1 1/4	12	13,5	42	-
K0454.158112	K0454.258112	K0454.358112	58	G1 1/2	10	14,5	50	-
K0454.174200	K0454.274200	K0454.374200	74	G2	13,5	16	64	-
K0454.1191415	K0454.2191415	K0454.3191415	19,5	M14x1,5	7	9	17	5
K0454.1211615	K0454.2211615	K0454.3211615	21	M16x1,5	7,5	10	18	6
K0454.1261815	K0454.2261815	K0454.3261815	26	M18x1,5	7,5	10	21	7
K0454.1282015	K0454.2282015	K0454.3282015	28	M20x1,5	8	10	24	8
K0454.1282215	K0454.2282215	K0454.3282215	28	M22x1,5	8	11	24	10
K0454.1524015	K0454.2524015	K0454.3524015	52	M40x1,5	10	13	42	-

Plugs fill

knurled cap







Material:
Thermoplastic polyamide 66;
O-ring in rubber (NBR)

Version:
black.

Sample order:
K0455.128012

Note:
Temperature resistant up to 100°C.

Drawing reference:
Form A: with fill symbol
Form B: with fill symbol and vent hole

1) O-ring
2) vent hole only Form B

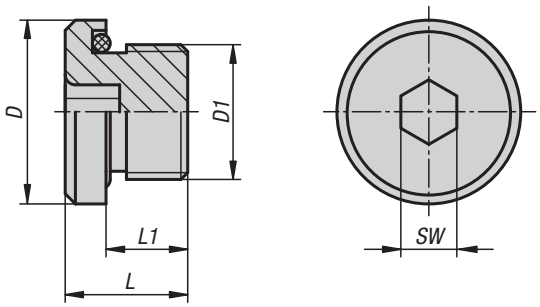
KIPP Plugs fill, knurled cap

Order No.	Form	D	D1	L	L1
K0455.120014	A	20	G1/4	9	9
K0455.120038	A	20,5	G3/8	9	10
K0455.128012	A	28	G1/2	10,5	10,5
K0455.131034	A	31	G3/4	12	11
K0455.139100	A	39	G1	12	12
K0455.149114	A	49	G1 1/4	13	13,5
K0455.155112	A	55	G1 1/2	14,7	14,5
K0455.168200	A	68,5	G2	15	16
K0455.1201415	A	20	M14x1,5	9	9
K0455.1201615	A	20	M16x1,5	9	10
K0455.1281815	A	28	M18x1,5	10,5	10
K0455.1282015	A	28	M20x1,5	10,5	10
K0455.1282215	A	28	M22x1,5	10,5	10
K0455.220014	B	20	G1/4	9	9
K0455.220038	B	20,5	G3/8	9	10
K0455.228012	B	28	G1/2	10,5	10,5
K0455.231034	B	31	G3/4	12	11
K0455.239100	B	39	G1	12	12
K0455.249114	B	49	G1 1/4	13	13,5
K0455.255112	B	55	G1 1/2	14,7	14,5
K0455.268200	B	68,5	G2	15	16
K0455.2201415	B	20	M14x1,5	9	9
K0455.2201615	B	20	M16x1,5	9	10
K0455.2281815	B	28	M18x1,5	10,5	10
K0455.2282015	B	28	M20x1,5	10,5	10
K0455.2282215	B	28	M22x1,5	10,5	10

Screw plugs

with hexagon socket





Material:
Steel 1.0737.
O-ring NBR, Shore 90.

Version:
Bright.

Sample order:
K1102.15018

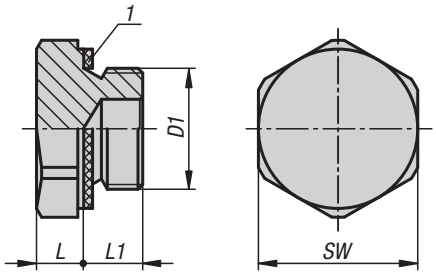
Note:
Operating temperature: -20°C / +100°C.
Operating pressure: max. 70 bar for static application.

KIPP Screw plugs with hexagon socket

Order No.	D	D1	L	L1	SW
K1102.15018	15	G 1/8	13	9	4
K1102.19014	19	G1/4	16	11	6
K1102.22038	22	G 3/8	17	11	6
K1102.27012	27	G 1/2	20	14	8
K1102.32034	32	G 3/4	20	14	12
K1102.40001	40	G 1	22	16	12
K1102.50114	50	G1 1/4	25	18	12
K1102.55112	55	G 1 1/2	24	17	24
K1102.141010	15	M10X1	12	8	5
K1102.171215	17	M12X1,5	16	10	6
K1102.191415	19	M14X1,5	16	10	6
K1102.221615	22	M16X1,5	16	10	6
K1102.251815	25	M18X1,5	17	11	8
K1102.272015	27	M20X1,5	18	12	8
K1102.282215	28	M22X1,5	18	12	10
K1102.322615	32	M26X1,5	20	13,5	12
K1102.322702	32	M27x2	20	13,5	12
K1102.403302	40	M33x2	21	15	17
K1102.504202	50	M42x2	24	17	22
K1102.554802	55	M48x2	24	17	24

Screw plugs aluminium





Material:
Aluminium.

Version:
Bright. Flat seal asbestos-free.

Sample order:
K1104.19014

On request:
Cap marked OIL.

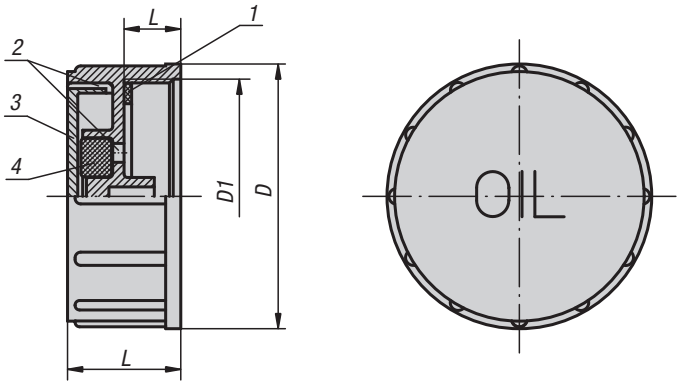
Drawing reference:
1) flat seal

KIPP Screw plugs aluminium

Order No.	D1	L	L1	SW
K1104.141010	M10x1	5	8	14
K1104.171215	M12x1,5	6	8	17
K1104.171415	M14x1,5	6	8	17
K1104.221615	M16x1,5	7	10	22
K1104.221815	M18x1,5	7	10	22
K1104.242015	M20x1,5	7	10	24
K1104.19014	G1/4	7	10	19
K1104.22038	G 3/8	7	10	22
K1104.27012	G 1/2	8	10	27
K1104.34034	G 3/4	8	10	34
K1104.40100	G 1	8	14	40

K0456

Caps for filler necks





Material:
Housing and cap thermoplastic polyamide 66.
Air filter polyurethane (PU foam).
Flat seal NBR, Shore 70.

Version:
Black housing.
Red cap.
Filter mesh 40 µm.

Sample order:
K0456.67200

Note:
Temperature resistant up to 100°C.

On request:
Cap in yellow for diesel oil.

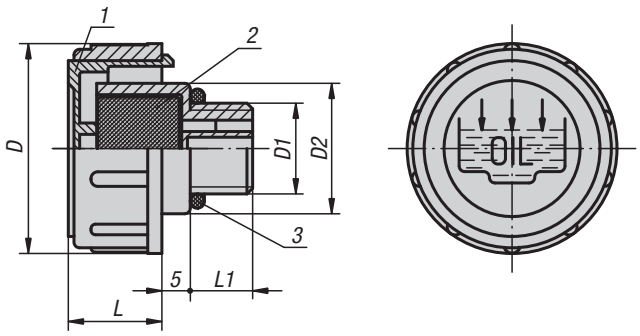
Drawing reference:
1) flat seal
2) vent
3) cap
4) air filter

KIPP Caps for filler necks

Order No.	D	D1	L	L1
K0456.67200	67,5	G2	30	15
K0456.676020	67,5	M60x2	30	15

K0457

Vent screws





Material:
Housing, cap in thermoplastic polyamide 66.
Air filter (Form B only) in polyurethane (PU foam).
O-ring in rubber (NBR).

Version:
Black housing.
Red cap.
Filter mesh 60 µm.

Sample order:
K0457.147034

Note:
Temperature resistant:
oil up to 100 °C
water up to 70 °C.
The removable cap allows easy cleaning of the air filter.

Drawing reference:
1) cap
2) air filter Form B only
3) O-ring

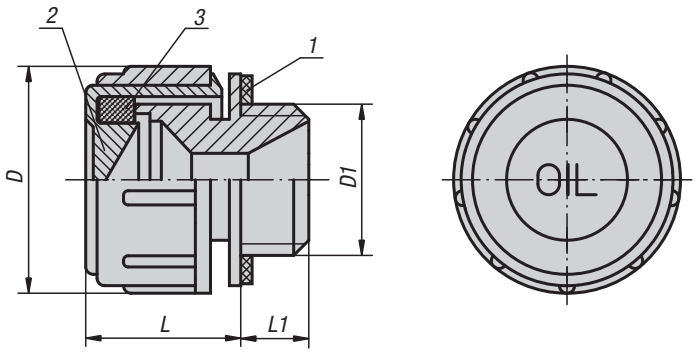
KIPP Vent screws

Order No. Form A	Order No. Form B	D	D1	D2	L	L1
K0457.136038	K0457.236038	36	G3/8	23	17	11
K0457.141012	K0457.241012	41	G1/2	28	18	12
K0457.147034	K0457.247034	47	G3/4	33	17	12
K0457.152100	K0457.252100	52	G1	38	20	12
K0457.163114	K0457.263114	63	G1 1/4	49	23	13
K0457.163112	K0457.263112	63	G1 1/2	55	23	13,5
K0457.1361615	K0457.2361615	36	M16x1,5	23	17	11
K0457.1411815	K0457.2411815	41	M18x1,5	28	17,5	12
K0457.1412015	K0457.2412015	41	M20x1,5	28	17,5	12
K0457.1412215	K0457.2412215	41	M22x1,5	28	17,5	12

Vent screws

with splash guard





Material:
Housing and cap thermoplastic polyamide 66.
Air filter polyurethane (PU foam).
Flat seal NBR, Shore 70.

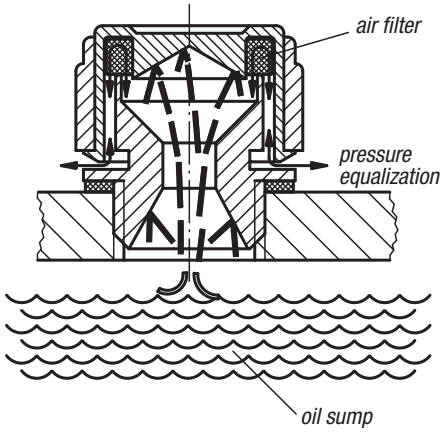
Version:
Black housing.
Red cap.
Filter mesh 40 µm.

Sample order:
K0458.30038

Note:
Temperature resistant up to 100°C.

Drawing reference:
1) flat seal
2) cap
3) air filter

splash guard



Gears partly immersed in an oil sump create an oil spray that may cause oil to leak from the vent cap. To avoid this the screw has been fitted with a splash guard. Only a small part of the oil spray can pass through the lower tapered bore. The oil that does reach the cap underside is redirected in such a way that it does not notably hinder the venting process.

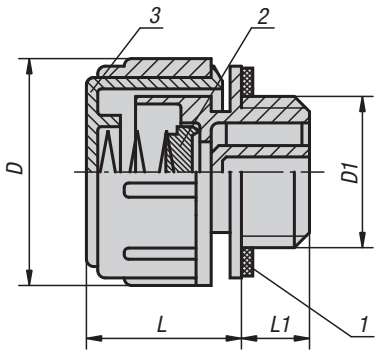
KIPP Vent screws with splash guard

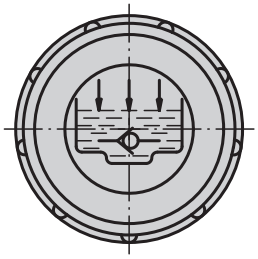
Order No.	D	D1	L	L1
K0458.30014	30	G1/4	21	10
K0458.30038	30	G3/8	21	10
K0458.30012	30	G1/2	21	10

Vent screws

with check valve







Material:
Housing and cap thermoplastic polyamide 66.
Spring stainless steel.
Lift disc and flat seal rubber (NBR).

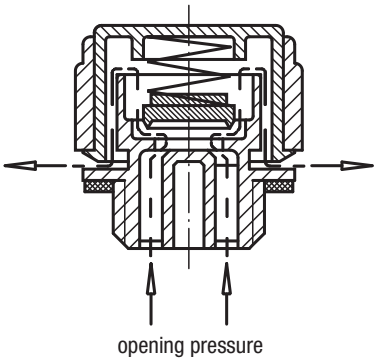
Version:
Housing black.
Cap red.

Sample order:
K0459.30014

Note:
Temperature resistant:
oil up to 100 °C
water up to 70 °C.
Opening pressure 0.20 – 0.25 bar.

Drawing reference:
1) flat seal
2) lift disc
3) cap

Operating principle



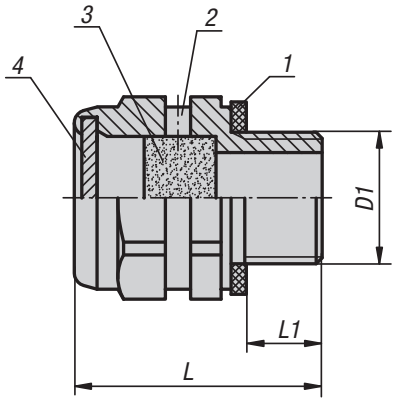
opening pressure
0.2 - 0.25 bar

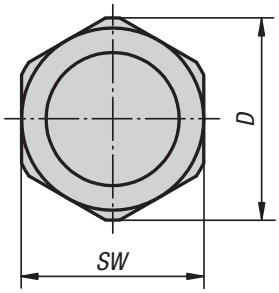
KIPP Vent screws with check valve

Order No.	D	D1	L	L1
K0459.30014	30	G1/4	21	10
K0459.30038	30	G3/8	21	10
K0459.30012	30	G1/2	21	10

K0460

Vent screws brass







Material:
Housing and cap brass.
Air filter galvanized steel wire mesh.

Version:
Air filter mesh 50 - 60 µm.
Flat seal asbestos-free.

Sample order:
K0460.20014

Drawing reference:
1) flat seal
2) vent hole 2x
3) air filter
4) cap

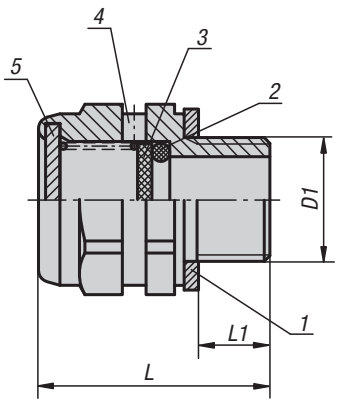
KIPP Vent screws brass

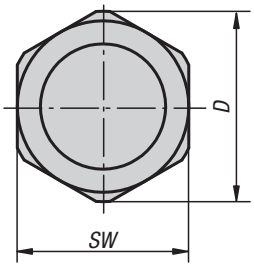
Order No.	D	D1	L	L1	SW
K0460.20014	20	G1/4	24,5	7,5	18
K0460.24038	24,5	G3/8	24,5	8,5	22
K0460.30012	30	G1/2	24,5	8,5	27

K0461

Vent screws brass

with check valve







Material:
Housing and cap brass.
Spring stainless steel.
Lift disc aluminium.
O-ring rubber (NBR).

Version:
Flat seal asbestos-free.

Sample order:
K0461.20014

Note:
Opening pressure 0.3 bar (±0.1).

Functional principle:
See K0459 vent screws with check valve.

Drawing reference:
1) flat seal
2) O-ring
3) lift disc
4) vent hole 2x
5) cap

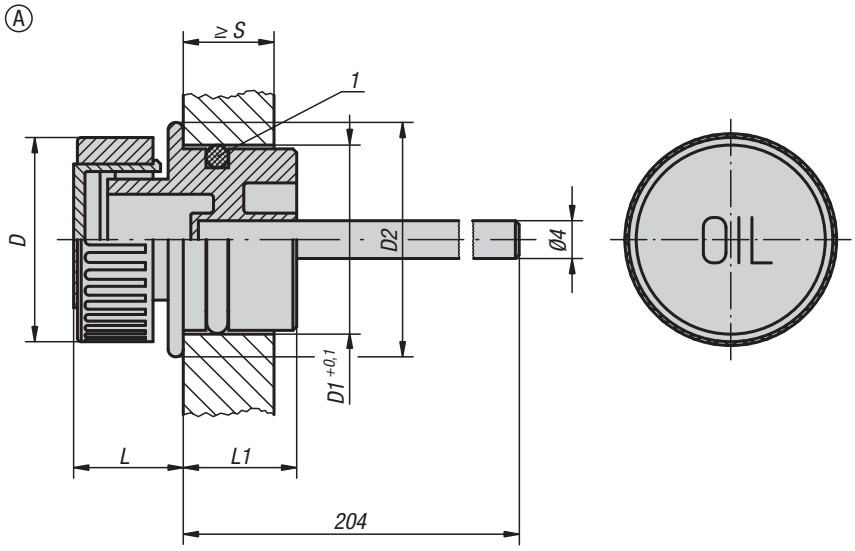
KIPP Vent screws brass with check valve

Order No.	D	D1	L	L1	SW
K0461.20014	20	G1/4	24,3	7,5	18
K0461.24038	24,5	G3/8	24,5	8,5	22
K0461.30012	30	G1/2	24,5	8,5	27

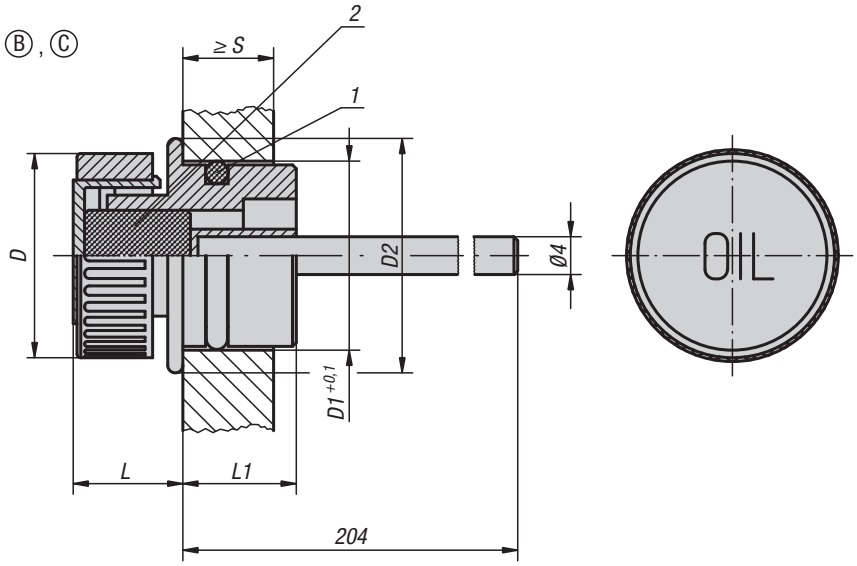
Press-in plugs

with dipstick

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Material:
Housing and cap thermoplastic polyamide 66.
Air filter polyurethane (PU foam).
Dipstick zinc.
O-ring NBR, Shore 70.

Version:
Housing black.
Cap red.
Filter mesh 50 µm.
Dipstick phosphated.

Sample order:
K0462.13018

Note:
Temperature resistant up to 100°C.

On request:
Min-Max markings.

Drawing reference:
Form A: without vent
Form B: with vent
Form C: with vent and air filter

1) O-ring
2) air filter Form C only

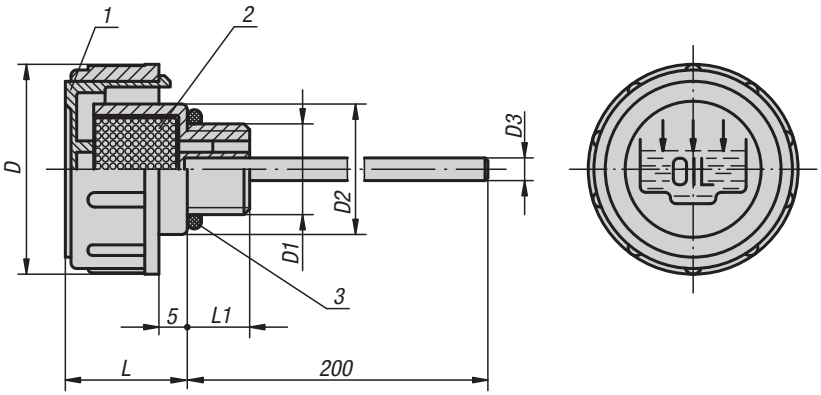
KIPP Press-in plugs with dipstick

Order No. Form A	Order No. Form B	Order No. Form C	D	drill-Ø D1	D2	L	L1	S min.
K0462.13018	K0462.23018	K0462.33018	30	18	23	14	14	8

Vent screws

with dipstick





Material:
Housing and cap thermoplastic polyamide 66.
Air filter polyurethane (PU foam).
Dipstick zinc.
O-ring NBR, Shore 70.

Version:
Housing black.
Cap red.
Filter mesh 50 µm.
Dipstick phosphated.

Sample order:
K0465.141012

Note:
Temperature resistant:
oil up to 100 °C
water up to 70 °C.
The removable cap allows easy cleaning of the air filter.

On request:
Min-Max markings.

Drawing reference:
1) cap
2) air filter Form B only
3) O-ring

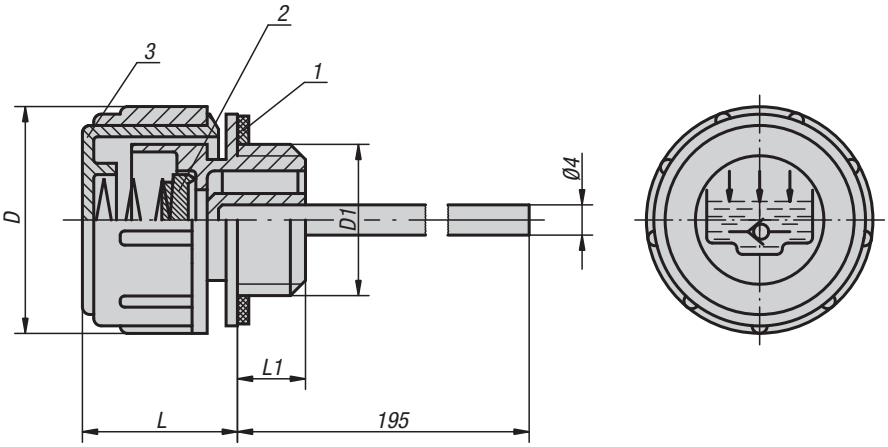
KIPP Vent screws with dipstick

Order No.	Form	D	D1	D2	D3	L	L1
K0465.136038	A	36	G3/8	23	4	17	11
K0465.141012	A	41	G1/2	28	4	18	12
K0465.147034	A	47	G3/4	33	5	17	12
K0465.152100	A	52	G1	38	5	20	12
K0465.163114	A	63	G1 1/4	49	5	23	13
K0465.163112	A	63	G1 1/2	55	5	23	13,5
K0465.1361615	A	36	M16x1,5	23	4	17	11
K0465.1411815	A	41	M18x1,5	28	4	17,5	12
K0465.1412015	A	41	M20x1,5	28	4	17,5	12
K0465.1412215	A	41	M22x1,5	28	4	17,5	12
K0465.236038	B	36	G3/8	23	4	17	11
K0465.241012	B	41	G1/2	28	4	18	12
K0465.247034	B	47	G3/4	33	5	17	12
K0465.252100	B	52	G1	38	5	20	12
K0465.263114	B	63	G1 1/4	49	5	23	13
K0465.263112	B	63	G1 1/2	55	5	23	13,5
K0465.2361615	B	36	M16x1,5	23	4	17	11
K0465.2411815	B	41	M18x1,5	28	4	17,5	12
K0465.2412015	B	41	M20x1,5	28	4	17,5	12
K0465.2412215	B	41	M22x1,5	28	4	17,5	12

Vent screws

with check valve and dipstick





Material:
Housing and cap thermoplastic polyamide.
Spring stainless steel.
Dipstick zinc.
Lift disc and seal rubber (NBR).

Version:
Housing black.
Cap red.
Dipstick phosphated.

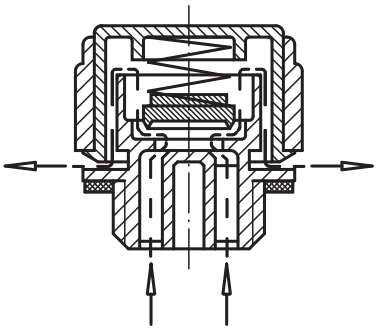
Sample order:
K0467.30038

Note:
Temperature resistant:
oil up to 100 °C
water up to 70 °C.
Opening pressure 0.20 – 0.25 bar.

On request:
Min-Max markings.

Drawing reference:
1) flat seal
2) lift disc
3) cap

Operating principle



opening pressure
0.2 - 0.25 bar

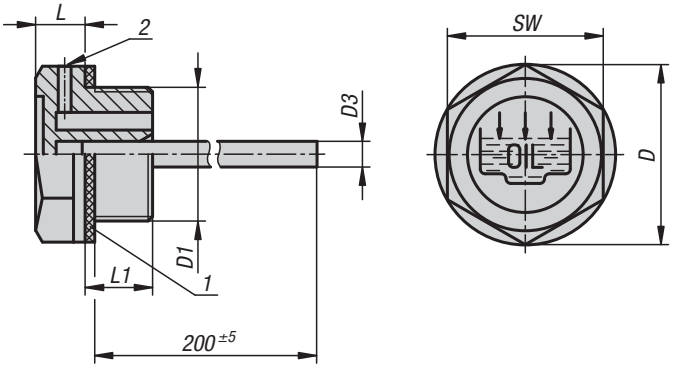
KIPP Vent screws with check valve and dipstick

Order No.	D	D1	L	L1
K0467.30038	30	G3/8	21	10
K0467.30012	30	G1/2	21	10

Screw plugs

with dipstick





Material:
Thermoplast, polyamide 66.
Dipstick steel, zinc phosphated.

Version:
Flat seal asbestos-free.

Sample order:
K1101.122038

Note:
Operating temperature: max. 100°C.
Form B has a vent hole on the side of the hexagon head with a diameter of between 2 and 3.5 mm, depending on the size of the screw plug.

Drawing reference:
1) flat seal
2) vent hole Form B only

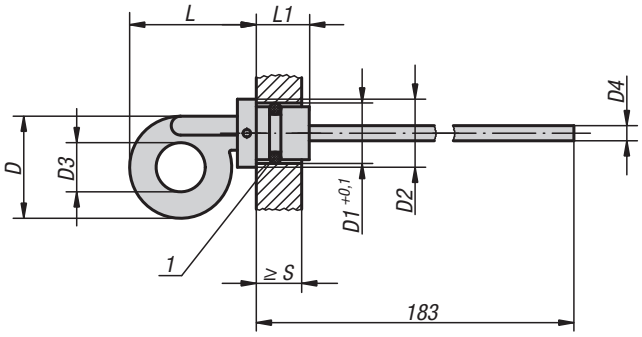
KIPP Screw plugs with dipstick

Order No.	Form	D	D1	D3	L	L1	SW
K1101.119014	A	19	G1/4	4	7	9	17
K1101.122038	A	22	G 3/8	4	7,5	10	18
K1101.128012	A	28	G 1/2	4	7,5	11	24
K1101.134034	A	34	G 3/4	5	9	11	30
K1101.142100	A	42	G 1	5	10,5	12	35
K1101.151114	A	51	G1 1/4	5	12	13,5	42
K1101.1191415	A	19	M14X1,5	4	7	9	17
K1101.1211615	A	21	M16X1,5	4	7,5	10	18
K1101.1261815	A	26	M18X1,5	4	7,5	10	21
K1101.1282015	A	28	M20X1,5	4	8	10	24
K1101.1282215	A	28	M22X1,5	4	8	11	24
K1101.219014	B	19	G1/4	4	7	9	17
K1101.222038	B	22	G 3/8	4	7,5	10	18
K1101.228012	B	28	G 1/2	4	7,5	11	24
K1101.234034	B	34	G 3/4	5	9	11	30
K1101.242100	B	42	G 1	5	10,5	12	35
K1101.251114	B	51	G1 1/4	5	12	13,5	42
K1101.2191415	B	19	M14X1,5	4	7	9	17
K1101.2211615	B	21	M16X1,5	4	7,5	10	18
K1101.2261815	B	26	M18X1,5	4	7,5	10	21
K1101.2282015	B	28	M20X1,5	4	8	10	24

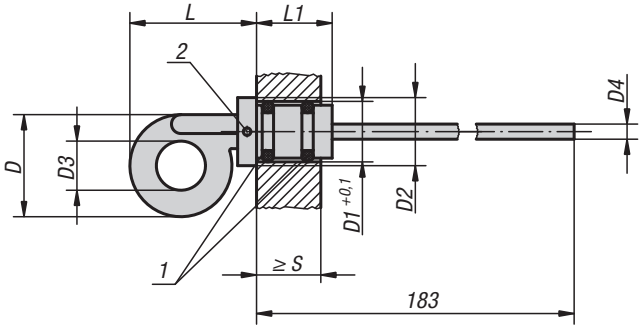
Dipsticks



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Material:
Grip thermoplastic polyamide.
Dipstick zinc.
O-ring NBR, Shore 70.

Version:
Black handle.
Dipstick, phosphated.

Sample order:
K0468.23218

Note:
Temperature resistant up to 100°C.

Drawing reference:
Form B: with vent hole
Form C: without vent hole
Form D: with vent hole

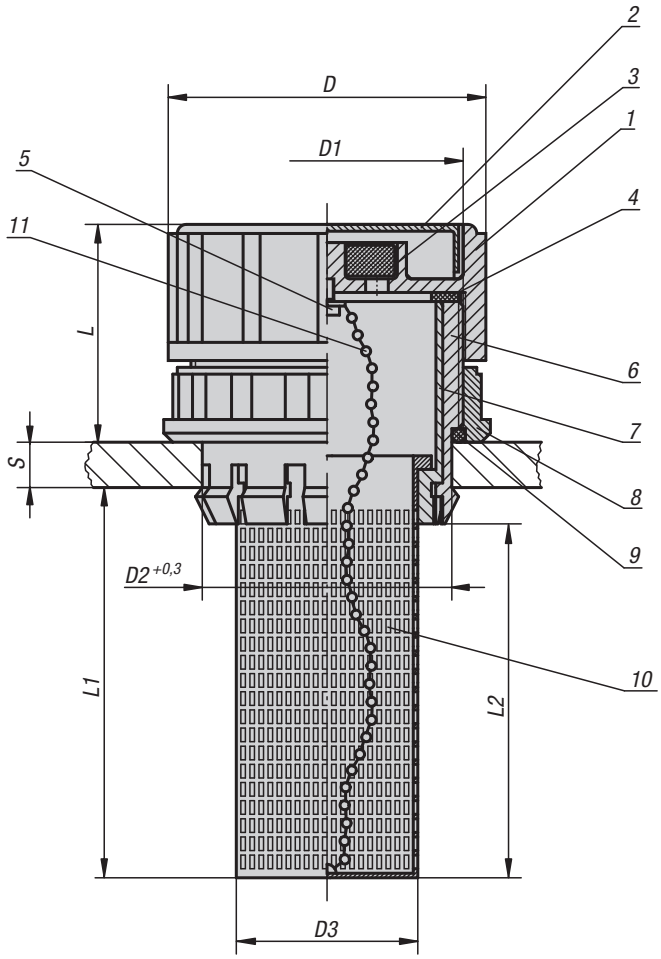
1) O-ring
2) Form D only

KIPP Dipsticks

Order No.	Form	D	drill-Ø D1	D2	D3	D4 Ø	L	L1	S min.
K0468.22714	B	27	14	18	13	4	34	13	10
K0468.23218	B	32	18	24	14	5	45	17	9
K0468.23220	B	32	20	24	14	5	44,5	18	10
K0468.32714	C	27	14	18	13	4	34	20	17
K0468.33012	C	27	12	18	14	4	36	20	16
K0468.33318	C	33	18	24	14	5	44	21	17,5
K0468.33520	C	35	20	24	16	5	46	21	17,5
K0468.42714	D	27	14	18	13	4	34	20	17
K0468.43318	D	33	18	24	14	5	44	21	17,5

Filler necks





Material, version:

1. Housing black thermoplastic polyamide 66.

2. Sealing cap red thermoplastic polyamide 66.

3. Air filter polyurethane (PU foam), filter grade 40 µm.

4. Flat seal NBR

5. Fastening screw nickel-plated steel.

6. Press-in unit black thermoplastic polyamide 66.

7. Stop sleeve black thermoplastic polyamide 66.

8. Fastening nut black polyamide 66.

9. O-ring NBR, Shore 70.

10. Filler sieve black thermoplastic polypropylene.

11. Chain nickel-plated brass.

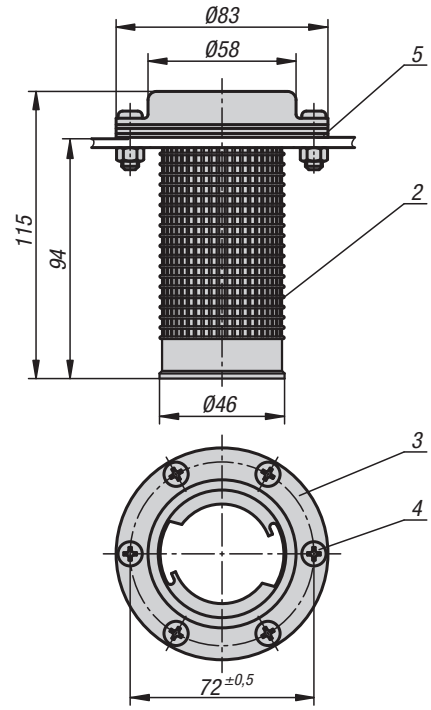
Sample order:
K0470.706020

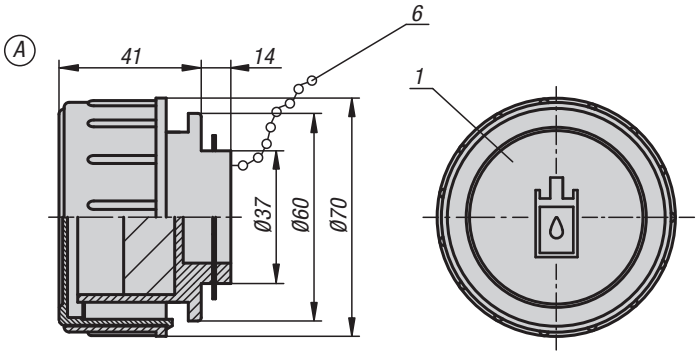
Note:
Temperature resistant up to 80 °C.

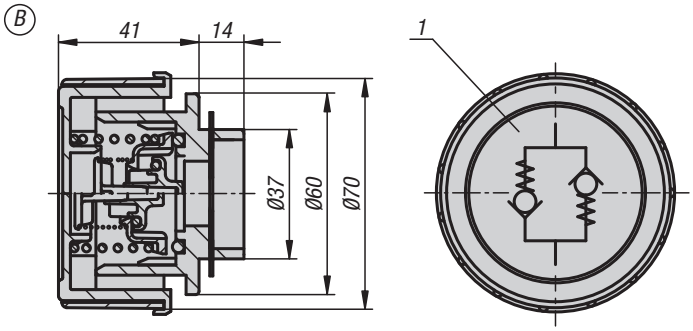
KIPP Filler necks

Order No.	D	D1	D2	D3	L	L1	L2	S
K0470.706020	70	M60x2	55	38	46,5	88	80	2 - 8

Filler neck









Material, version:
1. Sealing cap red Polyamide 66 thermoplastic.

2. Filler sieve black Polypropylene thermoplastic.

3 Flange galvanized steel.

4. Fastening screws galvanized steel.

5 Flange seal cork.

6. Chain brass.

Sample order:
K1103.170

Note:
Form A: the max. pressure while venting is 50 mbar (0.73 psi) with a max. air volume of 500 l/min. The air filter prevents dirt entering.

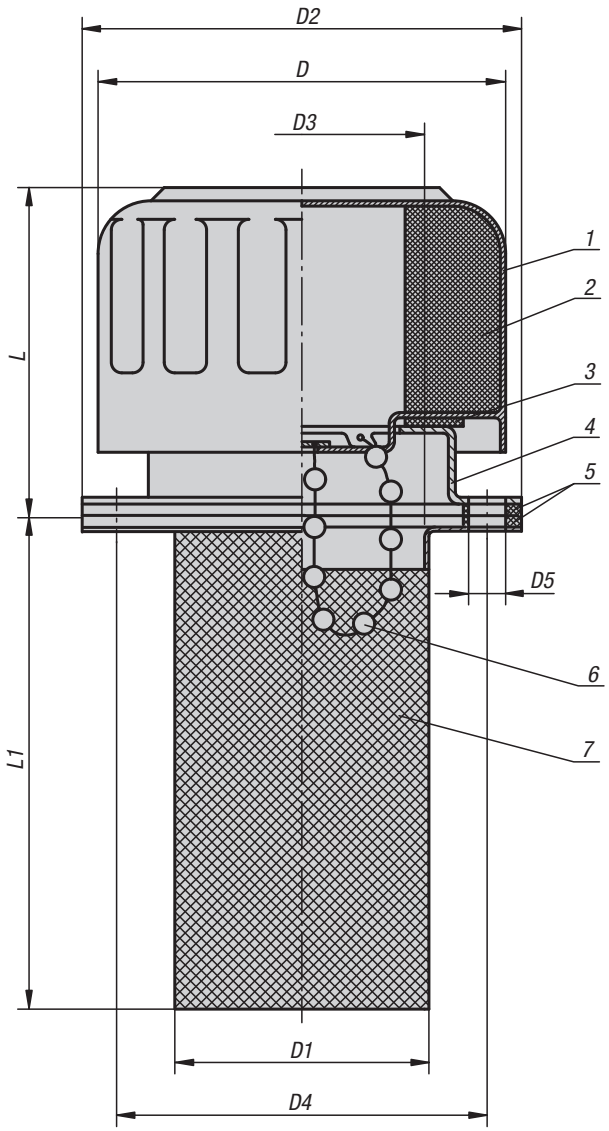
Form B: contains a plastic vent and aeration valve. The opening pressure while venting is 0.35 bar (±0.05 bar). The opening pressure while aerating is 0.05 bar. This form is suitable for applications where the airflow needs to be controlled in both directions.

KIPP Filler neck

Order No.	Type	Form
K1103.170	with filter	A
K1103.270	vent valve	B

Filler necks





Material, version:
1. Filler housing chrome steel

2. Air filter polyurethane (PU foam), filter mesh 40 µm. Flow rate up to 720 l/min

3. Flat seal cork

4. Mounting flange with fastening screws, bayonet fitting

5. Flat seal cork

6. Chain nickel-plated brass

7. Filler sieve galvanized steel

Sample order:
K0471.45

Note:
The filler necks are supplied with seals and M5 fastening screws.

Not suitable for water tanks.

KIPP Filler necks

Order No.	Version	D	D1	D2	D3	D4	D5	L	L1
K0471.45	without chain	46,5	27,5	52	25	41,3	6 (3x)	43	66
K0471.77	with chain	80	49	83	44	71,5	6 (6x)	57	80

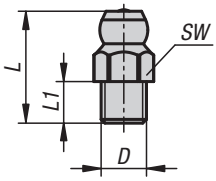
Notes

Grease nipples

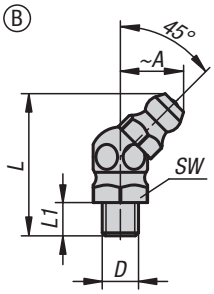
conical head DIN 71412



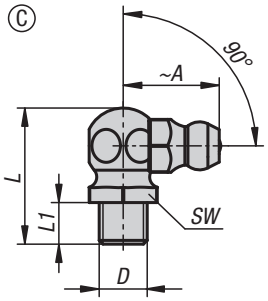
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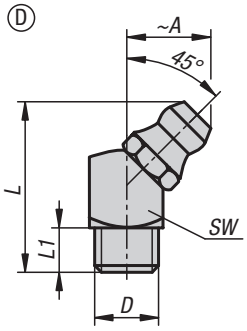
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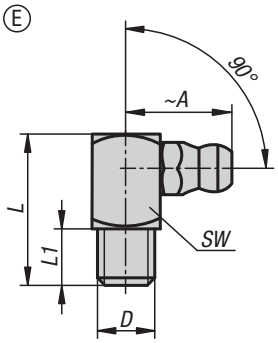
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Material:
Steel or 1.4305 stainless steel

Version:
Steel hardened, min. 550 HV 1, galvanised.
Stainless steel bright.

Sample order:
K1132.1106100

Note:
The conical head grease nipples have a tapered thread. They are suitable for grease points which must be lubricated often and reliably. Their versatility makes them the most widespread type of grease nipple.

KIPP Form A, straight

Order No. Steel	Order No. Stainless steel	Form	Type	D	L	L1	SW
K1132.1106100	**K1132.2106100**	A	hexagon	M06X1	15	5,5	7
K1132.1108100	**K1132.2108100**	A	hexagon	M8x1	15	5,5	9
K1132.1108125	**K1132.2108125**	A	hexagon	M08X1,25	15	5,5	9
K1132.1110100	**K1132.2110100**	A	hexagon	M10x1	15	5,5	11
K1132.1110150	**K1132.2110150**	A	hexagon	M10X1,5	15	5,5	11
K1132.1118	**K1132.2118**	A	hexagon	R1/8	15	5,5	11
K1132.1114	**K1132.2114**	A	hexagon	R1/4	17,5	6,5	14

KIPP Form B, 45°, hexagonal

Order No. Steel	Order No. Stainless steel	Form	Type	A	D	L	L1	SW
K1132.1206100	**K1132.2206100**	B	hexagon	10,5	M06X1	23,5	5,5	9
K1132.1208100	**K1132.2208100**	B	hexagon	10,5	M8x1	23,5	5,5	9
K1132.1208125	**K1132.2208125**	B	hexagon	10,5	M08X1,25	23,5	5,5	9
K1132.1210100	**K1132.2210100**	B	hexagon	11,5	M10x1	25	5,5	11
K1132.1210150	**K1132.2210150**	B	hexagon	11,5	M10X1,5	25	5,5	11
K1132.1218	**K1132.2218**	B	hexagon	11,5	R1/8	25	5,5	11
K1132.1214	**K1132.2214**	B	hexagon	12	R1/4	22,5	6,5	14

Grease nipples

conical head DIN 71412

KIPP Form C, 90°, hexagonal

Order No. Steel	Order No. Stainless steel	Form	Type	A	D	L	L1	SW
K1132.1306100	**K1132.2306100**	C	hexagon	13	M06X1	18	5,5	9
K1132.1308100	**K1132.2308100**	C	hexagon	13	M8x1	18	5,5	9
K1132.1308125	**K1132.2308125**	C	hexagon	13	M08X1,25	18	5,5	9
K1132.1310100	**K1132.2310100**	C	hexagon	14	M10x1	20	5,5	11
K1132.1310150	**K1132.2310150**	C	hexagon	14	M10X1,5	20	5,5	11
K1132.1318	**K1132.2318**	C	hexagon	14	R1/8	20	5,5	11
K1132.1314	**K1132.2314**	C	hexagon	14	R1/4	22	6,5	14

KIPP Form D, 45°, square

Order No.	Form	Main material	Type	A	D	L	L1	SW
K1132.1406100	D	Steel	square	10,5	M06X1	20,5	5,5	9
K1132.1408100	D	Steel	square	10,5	M8x1	20,5	5,5	9
K1132.1408125	D	Steel	square	10,5	M08X1,25	20,5	5,5	9
K1132.1410100	D	Steel	square	11	M10x1	20,5	5,5	11
K1132.1418	D	Steel	square	11	R1/8	20,5	5,5	11

KIPP Form E, 90°, square

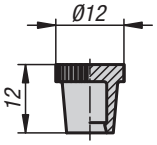
Order No.	Form	Main material	Type	A	D	L	L1	SW
K1132.1506100	E	Steel	square	14	M06X1	18	5,5	9
K1132.1508100	E	Steel	square	14	M8x1	18	5,5	9
K1132.1508125	E	Steel	square	14	M08X1,25	18	5,5	9
K1132.1510100	E	Steel	square	15	M10x1	18	5,5	11
K1132.1518	E	Steel	square	15	R1/8	18	5,5	11

Grease nipple caps

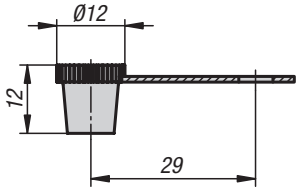
for conical head grease nipples



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Material:
Polyethylene (PE-LLD).

Version:
red, green, yellow or black.

Sample order:
K1133.911

Note:
Suitable for all DIN 71412 conical head grease nipples. They keep dirt out of the head of the nipple. The different colours are for e.g. identifying the lubrication intervals.

Application temperature: -70°C to +85°C.

Form A: without tab
Form B: with tab



KIPP Grease nipple caps for conical grease nipples

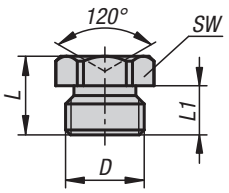
Order No.	Form	Colour
K1133.914	A	Black
K1133.913	A	Yellow
K1133.912	A	Green
K1133.911	A	Red
K1133.921	B	Red
K1133.922	B	Green
K1133.923	B	Yellow
K1133.924	B	Black

Grease nipples

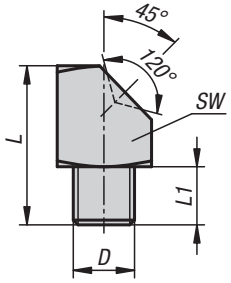
flush type DIN 3405



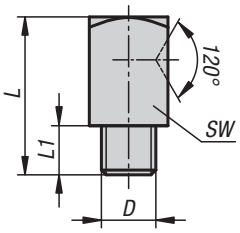
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Material:
Steel or 1.4305 stainless steel

Version:
Steel galvanized.
Stainless steel bright.

Sample order:
K1134.1106100

Note:
Flush type grease nipples are particularly suitable for flush or recessed installation.
By using flush type nipples, the required lubrication can also be carried out on points with poor accessibility.

Drawing reference:
Form A: straight
Form B: 45°
Form C: 90°

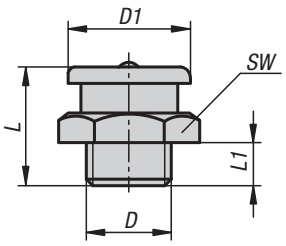
KIPP Grease nipples flush type DIN 3405

Order No.	Form	Main material	Type	D	L	L1	SW
K1134.1106100	A	Steel	hexagon	M06X1	9	6	7
K1134.1108100	A	Steel	hexagon	M8x1	9,5	6,5	9
K1134.1108125	A	Steel	hexagon	M08X1,25	9,5	6,5	9
K1134.1110100	A	Steel	hexagon	M10x1	9,5	6,5	11
K1134.1118	A	Steel	hexagon	R1/8	9,5	6,5	11
K1134.2106100	A	Stainless steel	hexagon	M06X1	9	6	7
K1134.2108100	A	Stainless steel	hexagon	M8x1	9,5	6,5	9
K1134.2108125	A	Stainless steel	hexagon	M08X1,25	9,5	6,5	9
K1134.2110100	A	Stainless steel	hexagon	M10x1	9,5	6,5	11
K1134.2118	A	Stainless steel	hexagon	G1/8	9,5	6,5	11
K1134.1206100	B	Steel	square	M06X1	15	5,5	9
K1134.1208100	B	Steel	square	M8x1	15	5,5	9
K1134.1208125	B	Steel	square	M08X1,25	15	5,5	9
K1134.1210100	B	Steel	square	M10x1	15	5,5	11
K1134.1218	B	Steel	square	R1/8	15	5,5	11
K1134.1306100	C	Steel	square	M06X1	18	5,5	9
K1134.1308100	C	Steel	square	M8x1	18	5,5	9
K1134.1308125	C	Steel	square	M08X1,25	18	5,5	9
K1134.1310100	C	Steel	square	M10x1	18	5,5	11
K1134.1318	C	Steel	square	R1/8	18	5,5	11

Grease nipples

button head DIN 3404





Material:
Steel or 1.4305 stainless steel

Version:
Steel galvanized.
Stainless steel bright.

Sample order:
K1135.11006100

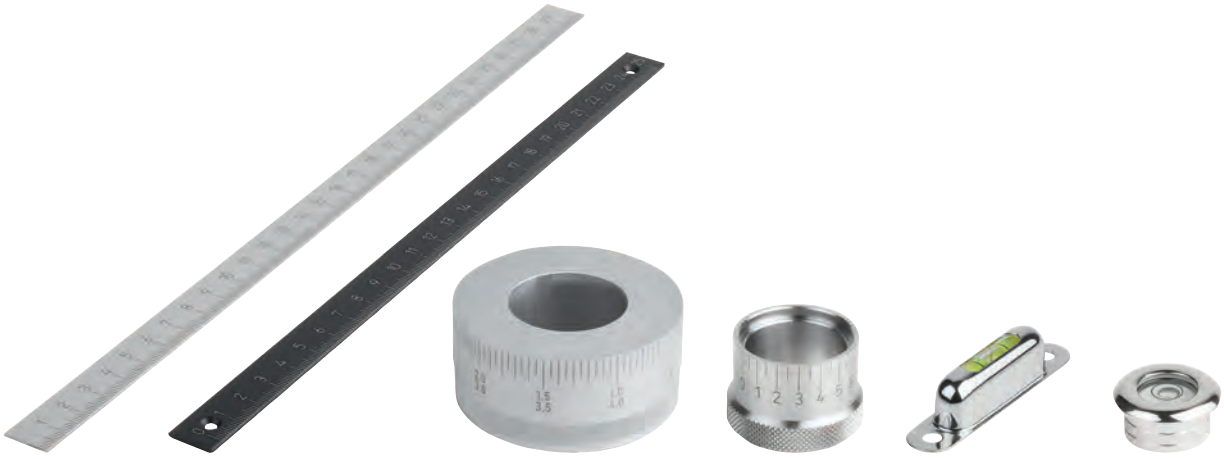
Note:
As the construction of button head grease nipples allow for a high lubrication flow rate, they are especially useful for lubrication points which require a large grease volume. Because of the robust design, button head grease nipples are preferred for machines that are subjected to high external stress.

KIPP Grease nipples button head DIN 3404

Order No.	Main material	D	D1	L	L1	SW
K1135.11006100	steel	M06X1	10	13,5	5,5	11
K1135.11008100	steel	M8x1	10	13,5	5,5	11
K1135.11010100	steel	M10x1	10	13,5	5,5	11
K1135.11018	steel	G1/8	10	13,5	5,5	11
K1135.11606100	steel	M06X1	16	17	6	17
K1135.11608100	steel	M8x1	16	17	6	17
K1135.11608125	steel	M08X1,25	16	17	6	17
K1135.11610100	steel	M10x1	16	17	6	17
K1135.11610150	steel	M10X1,5	16	17	6	17
K1135.11612150	steel	M12x1,5	16	17	6	17
K1135.11616150	steel	M16x1,5	16	18	7	17
K1135.11618	steel	G1/8	16	17	6	17
K1135.11614	steel	G1/4	16	17	6	17
K1135.21606100	stainless steel	M06X1	16	17	6	17
K1135.21608100	stainless steel	M8x1	16	17	6	17
K1135.21608125	stainless steel	M08X1,25	16	17	6	17
K1135.21610100	stainless steel	M10x1	16	17	6	17
K1135.21610150	stainless steel	M10X1,5	16	17	6	17
K1135.21612150	stainless steel	M12x1,5	16	17	6	17
K1135.21618	stainless steel	G1/8	16	17	6	17
K1135.21614	stainless steel	R1/4	16	17	6	17
K1135.12216150	steel	M16x1,5	22	21,5	8	22
K1135.12214	steel	G1/4	22	21,5	8	22
K1135.12238	steel	G3/8	22	21,5	8	22
K1135.22216150	stainless steel	M16x1,5	22	21,5	8	22
K1135.22214	stainless steel	G1/4	22	21,5	8	22
K1135.22238	stainless steel	G3/8	22	21,5	8	22

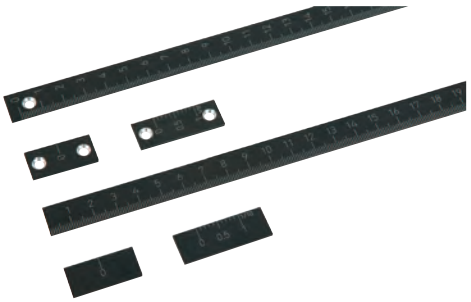
Notes

Scales, scale rings, level vials



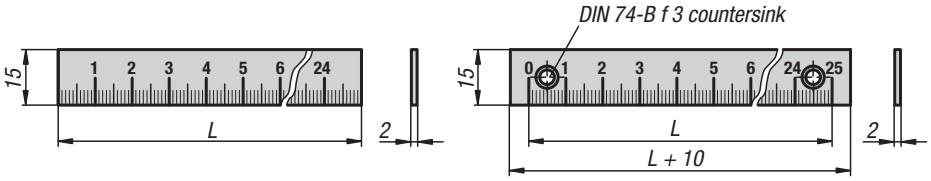
Linear scales

self adhesive or with screw holes, aluminium

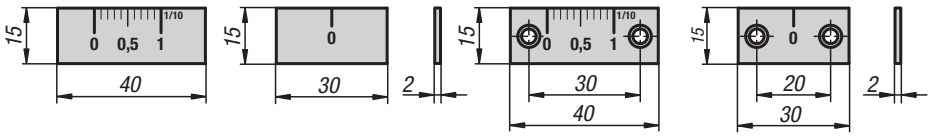


self-adhesive
horizontal mounting

with holes
horizontal mounting

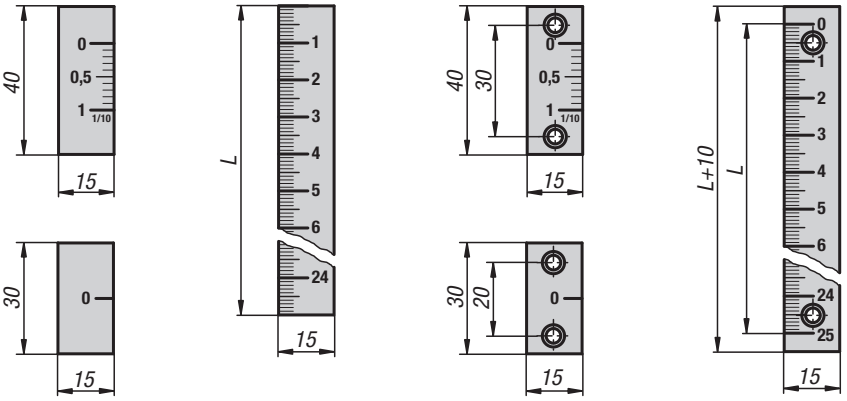


Vernier scale
zero mark
Vernier scale
zero mark



self-adhesive
vertical mounting

with holes
vertical mounting



Length L	No. of holes
250	2
500	3
750	4
1000	5

Material:
Aluminium.

Version:
Black anodized

Sample order:
K0757.000010X0250 (include length L)

Note:
Rigid design aluminium linear scales with self-adhesive back or with screw holes.
Cross section 15 x 2 mm.

Black anodized surface and high contrast graduations for legibility without shading. The graduations are deep lasered.

On request:
– Zero mark lower right or centre
– Graduations upper right or both sides
– Other lengths

KIPP Linear scales, self adhesive or with screw holes, aluminium

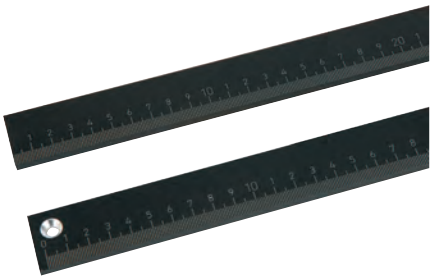
Order No. self adhesive	Order No. with hole	Version	Assembly position	Zero point	Division	Graduations	L
K0757.000010X	**K0757.100010X**	scale	horizontal	left	1 mm	bottom	250/500/750/1000
K0757.010010X	**K0757.110010X**	scale	vertical	top	1 mm	left	250/500/750/1000

KIPP Vernier scale and zero reference, self adhesive or with holes, aluminium

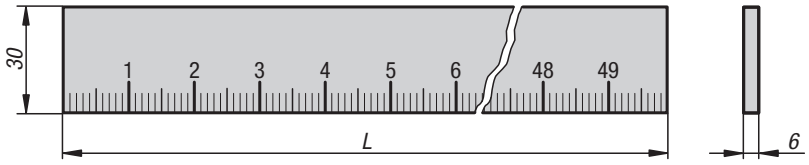
Order No. self adhesive	Order No. with hole	Version	Assembly position	Zero point	Graduations
K0757.0001	**K0757.1001**	vernier scale	horizontal	left	top
K0757.0101	**K0757.1101**	vernier scale	vertical	top	right
K0757.00	**K0757.10**	zero reference mark	horizontal	-	-
K0757.01	**K0757.11**	zero reference mark	vertical	-	-

Linear scales

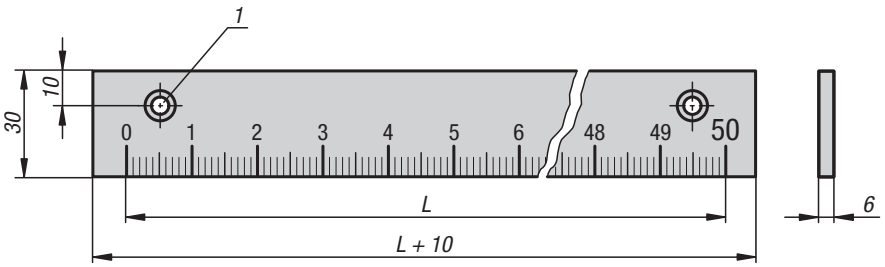
self-adhesive or with screw holes, aluminium



self-adhesive



with holes



Length L	No. of holes
500	2
1000	3

Material:
Aluminium.

Version:
Scale surface ground and black anodized

Sample order:
K0758.000010X0500 (include length L)

Note:
Rigid, heavy-duty design aluminium linear scales.
Cross section 30 x 6 mm.

Black anodized surface and high contrast graduations for legibility without shading.
The graduations are deep lasered.

On request:
– Zero mark right or centre
– Graduations top or both sides
– Other lengths

Drawing reference:
1) counterbore to DIN 74-B f 5

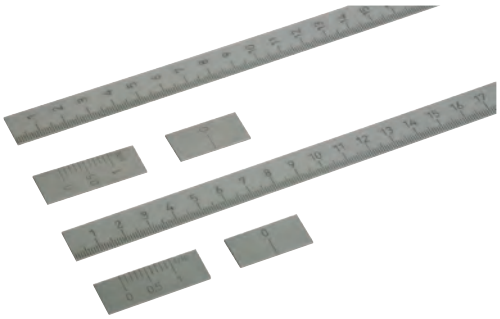


KIPP Linear scales self-adhesive or with screw holes, aluminium

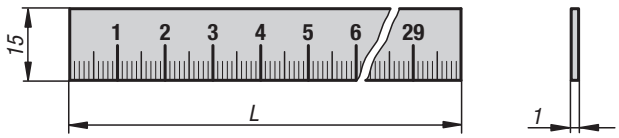
Order No. self adhesive	Order No. with hole	Assembly position	Zero point	Division	Graduations	L
K0758.000010X	K0758.100010X	horizontal	left	1 mm	bottom	500/1000

Linear scales

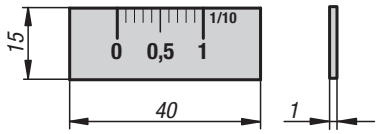
self-adhesive, stainless steel



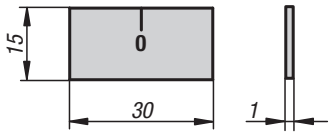
horizontal mounting



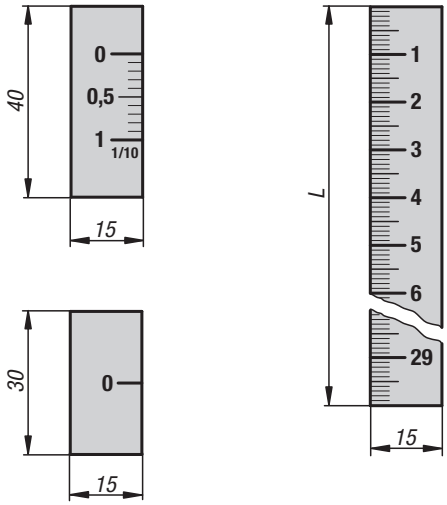
Vernier scale



zero mark



vertical mounting



Material:
Stainless steel 1.4310.

Version:
Bright.

Sample order:
K0759.000010X0300 (include length L)

Note:
Rigid design stainless steel linear scales with self-adhesive back.
Cross section 15 x 1 mm.

Matt surface and black high contrast graduations. The graduations are deep lasered.

On request:
– Zero mark lower right or centre
– Graduations upper right or both sides
– Other lengths

KIPP Linear scales self-adhesive, stainless steel

Order No.	Version	Assembly position	Zero point	Division	Graduations	L
K0759.000010X	scale	horizontal	left	1 mm	bottom	300/500/700/1000
K0759.010010X	scale	vertical	top	1 mm	left	300/500/700/1000

KIPP Vernier scale and zero reference, self-adhesive, stainless steel

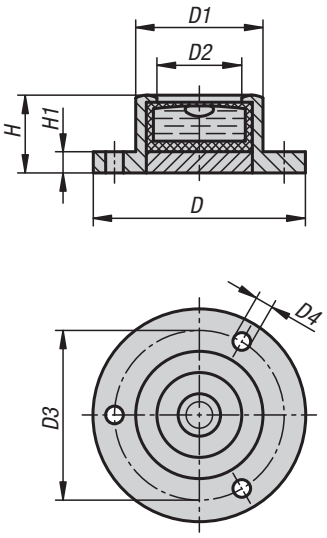
Order No.	Version	Assembly position	Zero point	Graduations
K0759.0001	vernier scale	horizontal	left	top
K0759.0101	vernier scale	vertical	top	right
K0759.00	zero reference mark	horizontal	-	-
K0759.01	zero reference mark	vertical	-	-

Bullseye levels

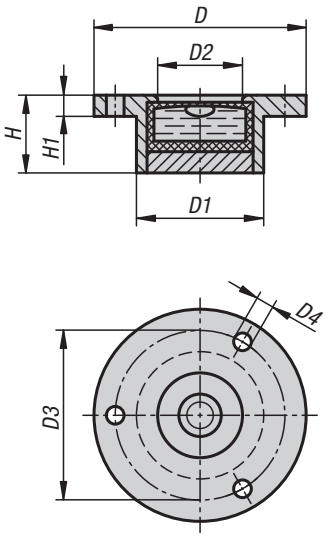
in frame, to screw on



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Material:
Frame brass.
Bullseye level body polyamide.

Version:
Nickel-plated and high-gloss polished.

Sample order:
K1154.1141030

Note:
Bubble levels are used as a type of zero indicator instrument for checking horizontal inclination in e.g. spirit levels, inclinometers, metrology instruments and machine constructions.
These bullseye levels can either be screwed down using the three holes (Form A) or recessed (Form B).
- Form A: calibrated to the ground bottom face
- Form B: calibrated to the underside of the flange
- Sensitivity in angular minutes for 2 mm bubble travel
- Clear filling
- Black contrast ring
- White level base

Temperature range:
-35 °C up to +55 °C.

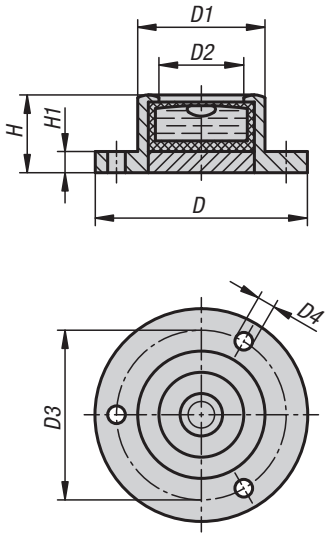
KIPP Bullseye levels in a frame to screw down

Order No.	Form	Version	D	D1	D2	D3	D4 Ø	H	H1	Sensitivity
K1154.1141030	A	with mounting flange	20	14	10	17	1,6	10	1,8	30‘
K1154.1171030	A	with mounting flange	25	17	12	21	2	10	2	30‘
K1154.1181130	A	with mounting flange	30	18	12	24	2,5	11	3	30‘
K1154.1281430	A	with mounting flange	40	28	20	34,5	2,5	14	4	30‘
K1154.1341530	A	with mounting flange	50	34	25	43	3	15	5	30‘
K1154.2141030	B	inlet flange	20	14	10	17	1,6	10	1,8	30‘
K1154.2171030	B	inlet flange	25	17	12	21	2	10	2	30‘
K1154.2181130	B	inlet flange	30	18	12	24	2,5	11	3	30‘
K1154.2281430	B	inlet flange	40	28	20	34,5	2,5	14	4	30‘
K1154.2341530	B	inlet flange	50	34	25	43	3	15	5	30‘

Bullseye levels

in plastic frame





Material:
Frame PMMA.
Bullseye level body acrylic glass.

Version:
black.

Sample order:
K1153.171053

Note:
Bubble levels are used as a type of zero indicator instrument for checking horizontal inclination in e.g. spirit levels, inclinometers, metrology instruments and machine constructions.
These bullseye levels can be mounted using the three fastening holes.
- Calibrated to the ground bottom face
- Sensitivity in angular minutes for 2 mm bubble travel
- Clear filling
- Black contrast ring
- White level base

Temperature range:
-35 °C up to +55 °C.

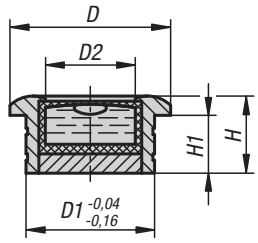
KIPP Bullseye levels in a plastic frame

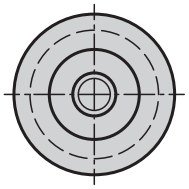
Order No.	D	D1	D2	D3	D4 Ø	H	H1	Sensitivity
K1153.171053	26	17	11	21,5	2,3	10	3	53‘
K1153.201140	30	20	14	25	2,3	11	3	40‘
K1153.241153	36	24	18,5	29	3,2	11	3	53‘

Bullseye levels

with bead-edged frame







Material:
Frame brass.
Bullseye level body polyamide.

Version:
Nickel-plated and high-gloss polished.

Sample order:
K1152.181030

Note:
Bubble levels are used as a type of zero indicator instrument for checking horizontal inclination in e.g. spirit levels, inclinometers, metrology instruments and machine constructions.
- Sensitivity in angular minutes for 2 mm bubble travel
- The bullseye level is calibrated to underside of the flange
- Bead edge with serrations for recessing
- Clear filling
- Black contrast ring
- White level base

Temperature range:
-35 °C up to +55 °C.

KIPP Bullseye levels with bead-edge frame

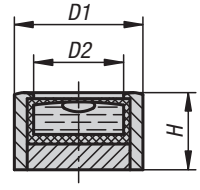
Order No.	D	D1	D2	H	H1	Sensitivity
K1152.181030	20	18	12	10	8	30‘
K1152.201230	25	20	14	12	9	30‘
K1152.281330	30	28	20	13	10	30‘

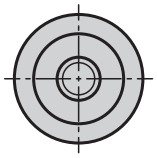
Bullseye levels

in round frame

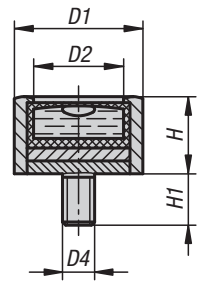


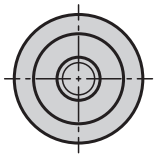
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Material:
Frame brass.
Bullseye level body polyamide.

Version:
Nickel-plated and high-gloss polished.

Sample order:
K1155.1140930

Note:
Bubble levels are used as a type of zero indicator instrument for checking horizontal inclination in e.g. spirit levels, inclinometers, metrology instruments and machine constructions.
Form B can be fastened using a grub screw.
- Sensitivity in angular minutes for 2 mm bubble travel
- The bullseye level is calibrated to the seating face of frame
- Various threads are available
- Clear filling
- Black contrast ring
- White level base

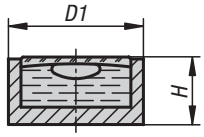
Temperature range:
-35 °C up to +55 °C.

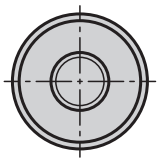
KIPP Bullseye levels in a round frame

Order No.	Form	D1	D2	D4 Ø	H	H1	Sensitivity
K1155.1140930	A	14	10	-	9,5	-	30‘
K1155.1181130	A	18	12	-	11	-	30‘
K1155.1201230	A	20	14	-	12	-	30‘
K1155.1301530	A	30	21	-	15	-	30‘
K1155.2140730	B	14	10	M4	7,5	5	30‘
K1155.2181230	B	18	12	M6	12	5	30‘
K1155.2201230	B	20	14	M5	12	8	30‘
K1155.2301530	B	30	21	M8	15	10	30‘

Bullseye level body







Material:
Bullseye level body stainless steel up to Ø14 mm, then aluminium.
Sight window glass.

Version:
Aluminium black anodized.

Sample order:
K1156.120725

Note:
Bubble levels are used as a type of zero indicator instrument for checking horizontal inclination in e.g. spirit levels, inclinometers, metrology instruments and machine constructions.
Excellent bubble contour, with internal bubble ring to eliminate planar parallaxes.
- Sensitivity in angular minutes for 2 mm bubble travel
- Clear filling

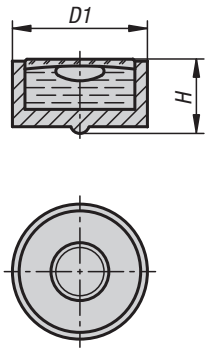
Temperature range:
-35 °C up to +55 °C.

KIPP Bullseye level body

Order No.	Main material	D1	H	Sensitivity
K1156.120710	stainless steel	12	6	10‘
K1156.120725	stainless steel	12	6	25‘
K1156.140710	aluminium	14	6,5	10‘
K1156.140720	aluminium	14	6,5	20‘
K1156.150710	aluminium	15	6,5	10‘
K1156.150720	aluminium	15	6,8	20‘
K1156.200810	aluminium	20	8,5	10‘
K1156.200820	aluminium	20	8,5	20‘
K1156.250910	aluminium	25	8,5	10‘
K1156.250920	aluminium	25	8,5	20‘

Bullseye level body

plastic





Material:
Polyamide

Version:
Ivory coloured.

Sample order:
K1157.120720

Note:
Bubble levels are used as a type of zero indicator instrument for checking horizontal inclination in e.g. spirit levels, inclinometers, metrology instruments and machine constructions.
With internal black contrast ring for better bubble contour.
- Protruding fill point underneath.
- Sensitivity in angular minutes for 2 mm bubble travel
- Clear filling

Temperature range:
-35 °C up to +55 °C.

KIPP Bullseye level body plastic

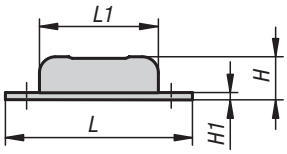
Order No.	D1	H	Sensitivity
K1157.120720	12	7	20‘
K1157.140730	14	7,7	30‘
K1157.150720	15	7,7	20‘
K1157.180930	18	9,2	30‘
K1157.201040	20	10,6	40‘
K1157.251230	25	11,5	30‘

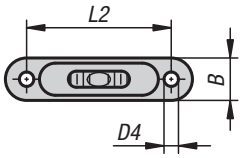
Tubular bubble levels

with frame to screw on

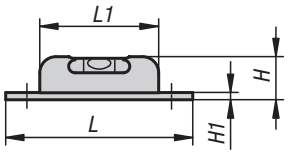


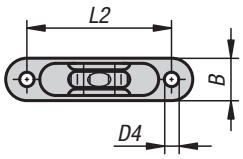
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Material:
Frame brass.
Tubular bubble vial glass.

Version:
Nickel-plated and high-gloss polished. Form B: black anodised.

Sample order:
K1158.1571350

Note:
Bubble levels are used as a type of zero indicator instrument for checking horizontal inclination in e.g. spirit levels, inclinometers, metrology instruments and machine constructions.
The tubular levels can be fastened using the two holes.
- Form A: one sight window
- Form B: three sight windows
- Sensitivity in angular minutes for 2 mm bubble travel
- Green filling

Temperature range:
-35 °C up to +55 °C.

KIPP Tubular levels with frame to screw down

Order No.	Form	B	D4 Ø	H	H1	L Nom. length	L1	L2	Sensitivity
K1158.1571350	A	12,3	4,5	13	1	57	37	45	50‘
K1158.2571305	B	12,3	4,5	13	1	57	37	45	5‘

Scale rings to customer specifications



Material:
Steel 1.192.

Version:
Matt-finished chromium-plated.
Scale marks and figures in black.

Note:
The above version has proven itself for „avoiding reading errors“. The matt-finished chromium-plated surface and the black scale marks and figures contrast very well.
However, other surface finishes and materials are available on request.

Notes

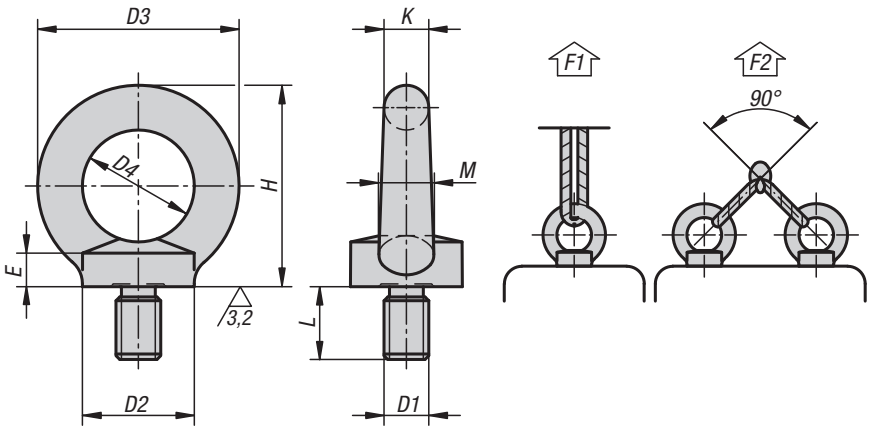
Material handling



Ring bolts

DIN 580 / stainless steel similar to DIN 580





Material:
1.1141 steel or 1.4301 stainless steel.

Version:
Steel: drop forged.
Stainless steel: cast.

Sample order:
K0767.20

Note:
DIN 580 steel ring bolts:
For high demand lifting and handling functions in safety relevant areas (machine construction, lifting units, lifting tackle).
Stainless steel ring bolts similar to DIN 580:
For light lifting, and handling functions without special requirement, e.g. fence construction, chain barriers and light machining.
F2 load handling with max. 45° sling angle per ring bolt.

On request:
Available with CE marking and certificate of conformity.

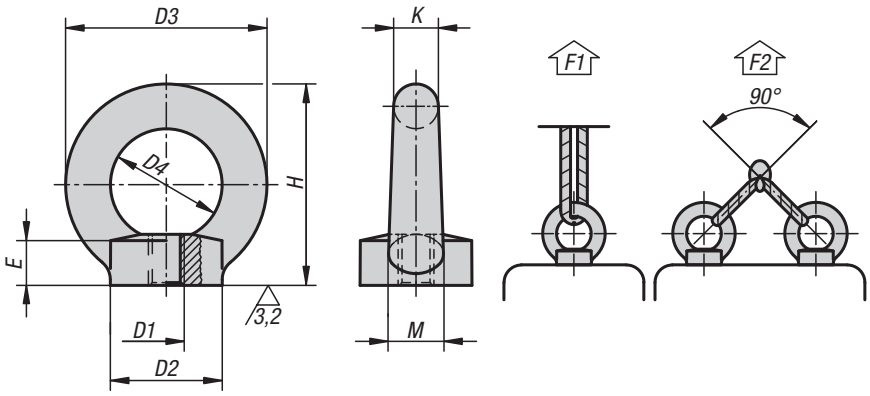
KIPP Ring bolts DIN 580 / stainless steel similar to DIN 580

Order No. Steel	Order No. Stainless steel	D1	L	D2	D3	D4	E	H	K	M	F1 max. kN	F2 max. kN
K0767.08	**K0767.108**	M8	13	20	36	20	6	36	8	10	1,4	0,95
K0767.10	**K0767.110**	M10	17	25	45	25	8	45	10	12	2,3	1,7
K0767.12	**K0767.112**	M12	20,5	30	54	30	10	53	12	14	3,4	2,4
K0767.16	**K0767.116**	M16	27	35	63	35	12	62	14	16	7	5
K0767.20	-	M20	30	40	72	40	14	71	16	19	12	8,3
K0767.24	-	M24	36	50	90	50	18	90	20	24	18	12,7

Ring nuts

DIN 582 / stainless steel similar to DIN 582





Material:
1.1141 steel or 1.4301 stainless steel.

Version:
Steel: drop forged.
Stainless steel: cast.

Sample order:
K0768.10

Note:
DIN 582 steel ring nuts:
For high demand lifting and handling functions in safety relevant areas (machine construction, lifting units, lifting tackle).
Stainless steel ring nuts similar to DIN 582:
For light lifting, and handling functions without special requirement, e.g. fence construction, chain barriers and light machining.
F2 load handling with max. 45° sling angle per ring nut.

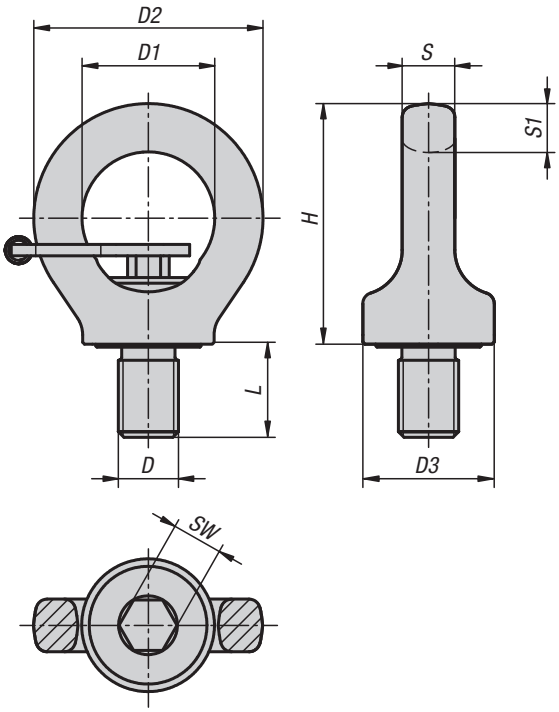
On request:
Available with CE marking and certificate of conformity.

KIPP Ring nuts DIN 582 / stainless similar to DIN 582

Order No. Steel	Order No. Stainless steel	D1	D2	D3	D4	E	H	K	M	F1 max. kN	F2 max. kN
K0768.08	**K0768.108**	M8	20	36	20	8,5	36	8	10	1,4	0,95
K0768.10	**K0768.110**	M10	25	45	25	10	45	10	12	2,3	1,7
K0768.12	**K0768.112**	M12	30	54	30	11	53	12	14	3,4	2,4
K0768.16	**K0768.116**	M16	35	63	35	13	62	14	16	7	5
K0768.20	**K0768.120**	M20	40	72	40	16	71	16	19	12	8,3
K0768.24	-	M24	50	90	50	20	90	20	24	18	12,7

Ring bolts rotatable

high-strength grade 10





Material:
Ring 1.6541 steel.
Screw steel.

Version:
Ring forged and high tensile tempered.
100% electromagnetic crack tested per EN 1677-1, 4x safety factor.
Plastic-coated.
Thread grade 10.9.

Sample order:
K0769.08151

Note:
In contrast to DIN 580 ring bolts this ring bolt is rotatable, therefore the load direction is adjustable and unintended tightening or loosening is negated.

– 4x safety factor
– lateral loading up to 90° is possible
– ring can rotate 360° with tightened screw

The listed load values apply for a minimum screw length of 1x nominal thread diameter in steel with a minimum tensile strength of 363 N/mm², at an application temperature of -20 °C to +100 °C.

Maximum lifting weight "G" in kg for different sling types

Sling configuration	G	G	G	G	G		G	
No. of slings	1	2	1	2	2	2	3 - 4	3 - 4
Sling angle ∢	0°	0°	90°	90°	0°-45°	45°-60°	0°-45°	45°-60°
M8	1000	2000	300	600	420	300	630	450
M10	1000	2000	400	800	560	400	840	600
M12	2000	4000	750	1500	1000	750	1600	1120
M16	4000	8000	1500	3000	2000	1500	3150	2250
M20	6000	12000	2300	4600	3220	2300	4830	3450
M24	8000	16000	3200	6400	4480	3200	6700	4800
M30	12000	24000	4500	9000	6300	4500	9400	6700

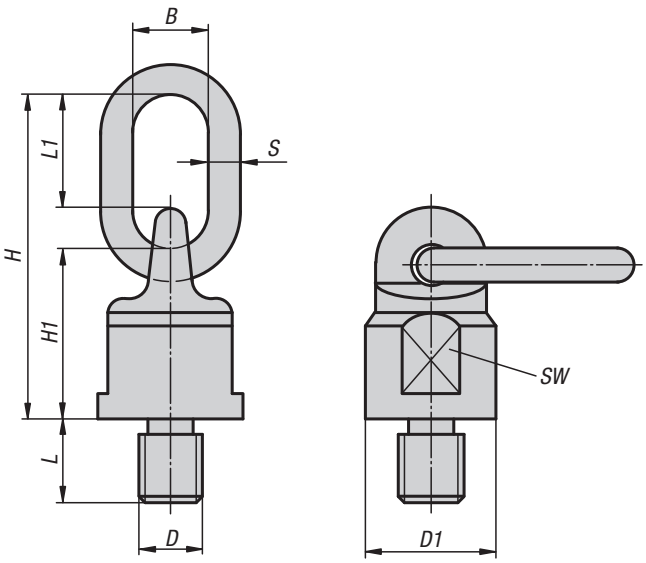
KIPP Rotatable ring bolts, high-strength grade 10

Order No.	Type	D	D1	D2	D3	H	L	S	S1	SW	Permissible load kg
K0769.08151	with hex key	M8	25	44	25	47	12	9	9,5	6	300
K0769.10151	with hex key	M10	25	44	26	47	15	9	9,5	6	400
K0769.12181	with hex key	M12	30	52	34	55	18	11	11	8	750
K0769.16241	with hex key	M16	35	61	35	64	24	14	13	10	1500
K0769.20301	with hex key	M20	40	70	44	74	30	16	15	12	2300
K0769.24361	with hex key	M24	48	84	52	91	36	19	18	14	3200
K0769.30451	with hex key	M30	60	105	61	112	45	25	22,5	17	4500
K0769.08150	without hex key	M8	25	44	25	47	12	8	11	6	300
K0769.10150	without hex key	M10	25	44	25	47	15	8	11	6	400
K0769.12180	without hex key	M12	30	52	33	55	18	10	13	8	750
K0769.16240	without hex key	M16	35	61	35	64	24	14	13	10	1500
K0769.20300	without hex key	M20	40	70	44	74	30	16	17	12	2300
K0769.24360	without hex key	M24	48	84	52	91	36	19	21	14	3200
K0769.30450	without hex key	M30	60	108	62	112	45	27	26	17	4500

Ring bolts

swivel, 360° rotatable, grade 8





Material:
Steel.

Version:
Quality class 8, ball bearing;
red plastic-coated

Sample order:
K0770.1018

Note:
Compact and light design, full loading on all sides. 4x safety factor against breakage in all loading axis. Rotatable 360°. Link swivel range max. 180°. The ball bearing allows the ring to rotate even under load.

Lifting or securing loads, swivel rings have many uses.

For the loading capacity to be valid it must be ensured that the ring is in line with the load. The swivel face must lie flat on the support beam and the screw must always be screwed in fully.

Maximum lifting weight "G" in kg for different sling types

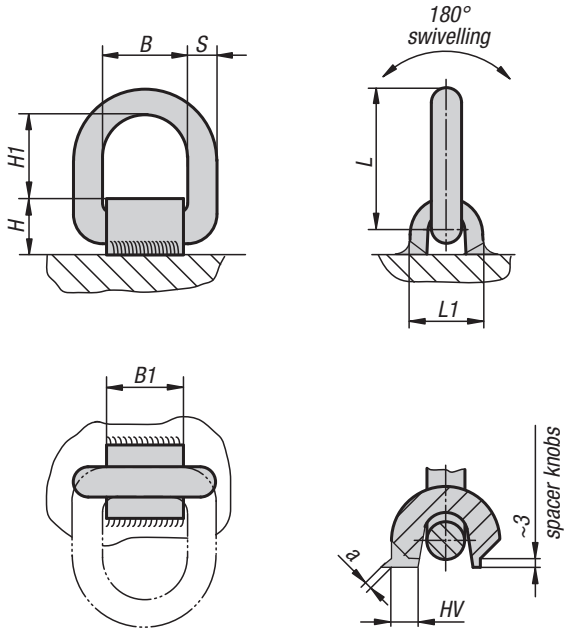
Sling confguration	G	G	G	G	G		G	
No. of slings	1	2	1	2	2	2	3 - 4	3 - 4
sling angle ∢	0°	0°	90°	90°	0°-45°	45°-60°	0°-45°	45°-60°
M10	600	1200	300	600	420	300	630	450
M12	1000	2000	500	1000	750	500	1100	750
M16	2000	4000	1120	2000	1500	1120	2360	1600
M20	4000	8000	2000	4000	2800	2000	4000	3000
M24	6300	12500	3150	6300	4250	3150	6300	4750
M30	10600	21200	5300	10600	7100	5800	11200	8000
M36	12500	25000	8000	16000	11200	8000	16800	12000

KIPP Ring bolts, swivel, rotatable 360°, grade 8

Order No.	B	D	D1	H	H1	L	L1	S	SW	Permissible load kg
K0770.1018	30	M10	38	105	50	18	46	13	30	300
K0770.1218	30	M12	38	105	50	18	46	13	30	500
K0770.1620	30	M16	38	105	50	20	46	13	30	1120
K0770.2030	34	M20	50	131	61	30	57	16	40	2000
K0770.2430	40	M24	58	153	68	30	70	19	48	3150
K0770.3035	40	M30	75	165	80	35	65	20	65	5300
K0770.3654	50	M36	85	205	95	54	90	22	75	8000

Weld-on D-ring





Material:
Eye 1.6541 steel.
Welding block, S355JR steel.

Version:
D-ring forged, high tensile tempered, red plastic coated.
Welding block forged, high tensile tempered, bright.

Sample order:
K0773.1000

Note:
Weld-on D-rings enable quick installation.

They offer a compact design and can be loaded from all sides, with 4x safety factor against breakage.

The welding block is forged from easy to weld S355JR (St 52-3). The small knobs serve as spacers for the air gap required for fillet welding (ca. 3 mm). The load data given in the table is clearly marked on the welding block, they apply to worst scenario cases for the lifting type shown.

Welding must be carried out by a proficient welder certified to EN 287-1.

Maximum lifting weight "G" in kg for different sling types

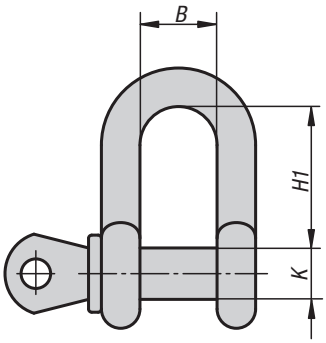
Sling configuration	G	G	G	G	G	G	G	G
No. of slings	1	2	1	2	2	2	3 - 4	3 - 4
Sling angle ∢	0°	0°	90°	90°	0°-45°	45°-60°	0°-45°	45°-60°
K0773.1***	1600	3200	1120	2240	1500	1120	2360	1600
K0773.2***	3000	6000	2000	4000	2800	2000	4000	3000
K0773.3***	4750	9500	3150	6300	4250	3150	6300	4750
K0773.5***	8000	16000	5300	10600	7100	5300	11200	8000

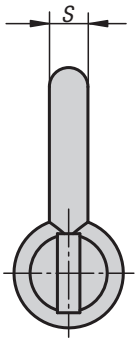
KIPP Weld-on D-ring

Order No. without spring strip	Order No. with spring strip	B	B1	H	H1	L	L1	S	Weld seam	Permissible load kg
K0773.1000	**K0773.1001**	40	38	32	40	73	38	13	HV 5 + a3	1120
K0773.2000	**K0773.2001**	41	38	32	45	81	40	13	HV 5 + a3	2000
K0773.3000	**K0773.3001**	45	43	38	45	87	42	17	HV 8 + a3	3150
K0773.5000	**K0773.5001**	55	50	48	57	108	60	22	HV 12 + a4	5300

D-Shackle







Material:
Steel.

Version:
D form

Sample order:
K1059.0050008

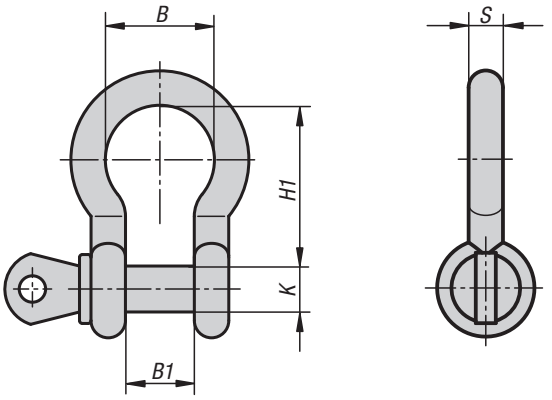
Note:
Shackles and bolts may vary in colour.
Paint may cause the thread to be stiff.

KIPP D-shackle

Order No.	B	S	K	H1	Inches	Permissible load kg
K1059.0050008	12	7	8	22,5	1/4	500
K1059.0075010	13,5	9	10	25,5	5/16	750
K1059.0100011	17	10	11	31	3/8	1000
K1059.0150012	18,5	11	12	36	7/16	1500
K1059.0200016	20	13,5	16	42	1/2	2000
K1059.0325019	27	16	19	51	5/8	3250
K1059.0475022	31	19	22	64	3/4	4750
K1059.0650025	36	22	25	73	7/8	6500
K1059.0850028	43	25	28	80	1	8500

Bow shackle





Material:
Steel.

Version:
Bow form.

Sample order:
K1058.0100011

Note:
Shackles and bolts may vary in colour.
Paint may cause the thread to be stiff.

KIPP Bow shackle

Order No.	B	B1	S	K	H1	Inches	Permissible load kg
K1058.0050008	20	12	7	8	28	1/4	500
K1058.0075010	21	12,5	9	10	31	5/16	750
K1058.0100011	26	15,5	10	11	36,5	3/8	1000
K1058.0150012	29	17,5	11	12	41,5	7/16	1500
K1058.0200016	32	20	13,5	16	47	1/2	2000
K1058.0325019	43	26	16	19	60	5/8	3250
K1058.0475022	51	31	19	22	71	3/4	4750
K1058.0650025	58	36	22	26	83	7/8	6500
K1058.0850028	68	43	25	28	92	1	8500

Mounting instructions and specifications
Ball transfer units

Ball transfer units allow bulky goods to be easily transported, rotated and directed. They have long proven their worth in conveyor systems, feeder systems, machining centres and packaging plants.

Applications:

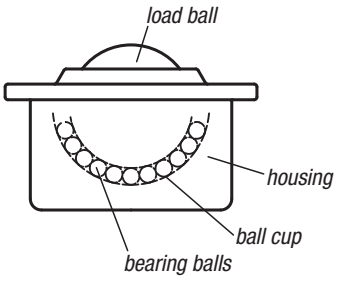
Conveyor technology
- ball pallets, rotary tables and sorting and distribution switch points
- crossing points in permanent conveyance systems
- Airport luggage sorting plants
- Steel pipe transport
- Lifting platforms

General machine shops
- Feed tables for sheetmetal handling machines
- Fixtures for bending machines
- Conveyors for machining centres
- Motor driven assembly aids in heavy engineering

Other applications
- Custom machine construction
- Aerospace technology
- Beverage production
- Stone processing

Ball transfer units have a steel housing with a hardened ball cup. This serves as the track for a number of small bearing balls. These bearing balls roll in the cup with the rotation of the load ball.

Ball transfer units are designed so that precise rolling and load carrying is guaranteed in all positions. Ball transfer units are low maintenance and almost all types have an oil soaked felt seal to protect from dirt.



Calculating the ball transfer unit loading

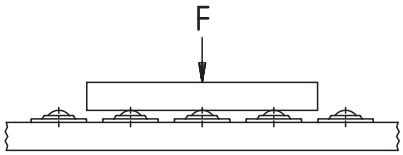
To calculate the loading for ball transfer units, divide the weight of the transported goods by 3. With good coordination of the load ball surface and, depending on the properties of the goods transported, the number of load bearing ball transfer units can also be calculated.

Example:

Weight of the transported goods = 300 kg

Ball transfer unit loading:

$$F = \frac{300\ kg}{3} = 100\ kg$$



Arrangement of the ball transfer units

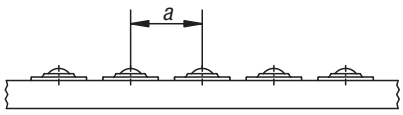
The arrangement of the ball transfer units depends on the surface area of the goods to be transported. By goods with a uniform, level surface area, such as the base of boxes, the distance between the ball transfer units is simply calculated from the length of the shortest edge divided by 2.5.

Example:

Surface area of goods
= 500 x 1000 mm

Distance between ball transfer units:

$$a = \frac{500\ mm}{2{,}5} = 200\ mm$$



Transport speed and load capacity

The recommended conveyance speed is 1 m/sec. With polyamid load balls 0.25 m/sec. The specified load rating applies to all mounting positions and relates to 106 revolutions of the load ball. By extended use in excess of 1 m/sec and depending on the loading, the temperature can be expected to rise and the useful life reduced, particularly with balls Ø60 to Ø90.

Calculating the lifespan

$$L = \left(\frac{C}{F}\right)^3 . 10^6 \ \text{revs}$$

L = lifespan
C = load rating (N)
F = loading (N)

Attention:
Use high temperature lubricant!
Follow manufacturer's instructions!
It is possible that the existing lubrication oil may have to be washed out.

Temperature load ball		Temperature factor fT
steel °C	polyamid °C	
125	40	0,9
150	50	0,8
175	60	0,7
-	70	0,6
200	80	0,5

Temperature resistance

For ball transfer units with a felt seal the temperature resistance is 100 °C by constant temperature.

Only non-galvanised ball transfer units with a steel ball and no felt seal can be used at temperatures in excess of 100 °C. Note the load rating reduction! Multiply the load rating by the temperature factor (table).

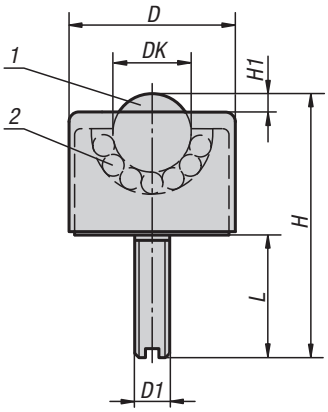
Calculating the loading by undersprung ball transfer units.

For these types the determining factor is the value given in the "Pre-tension" column of the table. The weight of the transported goods is divided by the number of supporting ball transfer units.

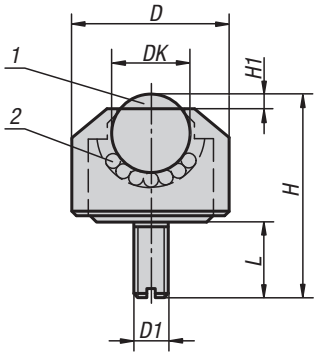
Mini ball transfer units



Ⓐ



Ⓑ



Material:
Steel version:
Load ball steel.
Bearing balls steel.
Housing galvanized steel.
Cover galvanized steel.

Stainless steel version:
Load ball stainless steel.
Bearing balls stainless steel.
Housing stainless steel.
Cover aluminium.

Sample order:
K0749.1105

Note:
The ball transfer units comprise a housing with integrated bearing shell, a cover, a load ball and several supporting balls. For use in measuring instruments, material conveyance in clean rooms and miniature mechanisms.

Drawing reference:
1) load ball
2) bearing balls

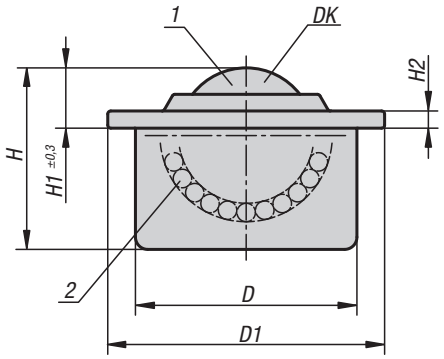
KIPP Mini ball transfer units

Order No.	Form	Main material	DK	D	D1	H	H1	L	Load rating C (N)
K0749.1105	A	Steel	4,8	13	M6	24	1	15	100
K0749.1106	A	Steel	6,4	17	M6	26	2	15	200
K0749.1108	A	Steel	7,9	18	M8	32	2	18	300
K0749.1110	A	Steel	9,6	23	M8	40	2	20	400
K0749.1113	A	Steel	12,7	28	M8	48	3,5	23	500
K0749.1216	B	Steel	15,8	24	M6	32,5	4	12	700
K0749.2205	B	Stainless steel	4,8	8	M2	8,5	1	2,5	50
K0749.2206	B	Stainless steel	6,4	13	M3	16,5	2	6	100
K0749.2208	B	Stainless steel	7,9	15	M4	20,5	2	8	150

Ball transfer units

with steel housing





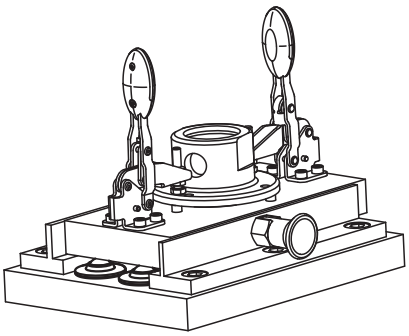
Material:
Galvanized steel or stainless steel

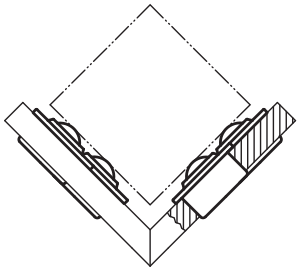
Sample order:
K0760.122

Note:
Ball transfer units with steel housing have a felt seal to protect against dirt.

Drawing reference:
1) load ball
2) bearing balls

Form B: cap and housing galvanized, balls steel
Form C: cap and housing galvanized, balls stainless steel
Form D: cap, housing and balls stainless steel





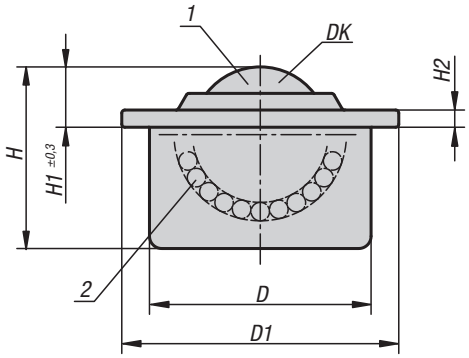
KIPP Ball transfer units with steel housing

Order No.	Form	DK	D	D1	H	H1	H2	Load rating C (N)	Suitable tolerance ring
K0760.115	B	15,8	24 ±0,065	31	21	9,5	2,8	600	K0766.024
K0760.122	B	22,2	36 ±0,080	45	30	9,8	2,8	1600	K0766.036
K0760.130	B	30	45 ±0,080	55	37	13,8	4	3000	K0766.045
K0760.145	B	44,5	62 ±0,095	75	53,5	19	4	6100	K0766.062
K0760.215	C	15,8	24 ±0,065	31	21	9,5	2,8	600	K0766.024
K0760.222	C	22,2	36 ±0,080	45	30	9,8	2,8	1600	K0766.036
K0760.230	C	30	45 ±0,080	55	37	13,8	4	3000	K0766.045
K0760.245	C	44,5	62 ±0,095	75	53,5	19	4	6100	K0766.062
K0760.315	D	15,8	24 ±0,065	31	21	9,5	2,8	380	K0766.024
K0760.322	D	22,2	36 ±0,080	45	30	9,8	2,8	1000	K0766.036
K0760.330	D	30	45 ±0,080	55	37	13,8	4	2000	K0766.045

Ball transfer units

with steel housing and plastic ball





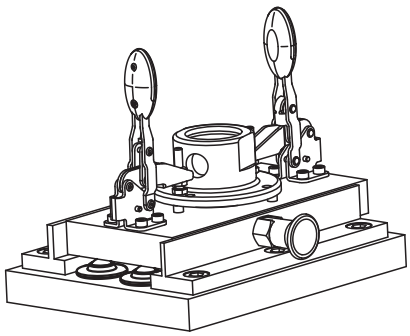
Material:
Galvanized steel.
Polyamid PA 66 ball.

Sample order:
K0761.122

Note:
Ball transfer units with plastic balls are particularly suitable for transporting sensitive materials such as polished aluminium, brass and steel sheets or glass. They have a felt seal to protect against dirt.

Drawing reference:
1) load ball
2) bearing balls

Form B: cap and housing galvanized, bearing balls steel.
Form C: cap and housing galvanized, bearing balls stainless steel



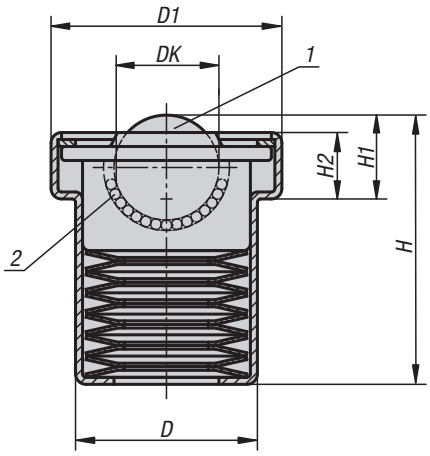
KIPP Ball transfer units with steel housing and plastic ball

Order No.	Form	DK	D	D1	H	H1	H2	Load rating C (N)	Suitable tolerance ring
K0761.115	B	15,8	24 ±0,065	31	21	9,5	2,8	100	K0766.024
K0761.122	B	22,2	36 ±0,080	45	30	9,6	2,8	200	K0766.036
K0761.130	B	30	45 ±0,080	55	37	13,6	4	250	K0766.045
K0761.215	C	15,8	24 ±0,065	31	21	9,5	2,8	100	K0766.024
K0761.222	C	22,2	36 ±0,080	45	30	9,6	2,8	200	K0766.036
K0761.230	C	30	45 ±0,080	55	37	13,6	4	250	K0766.045

Ball transfer units

undersprung





Material:
Steel galvanized.

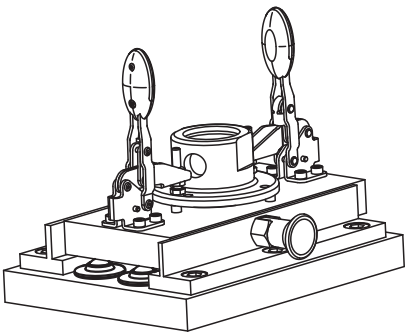
Sample order:
K0762.122

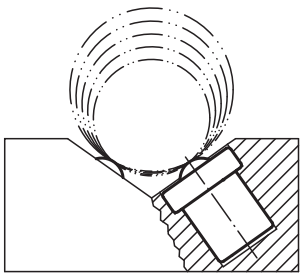
Note:
Undersprung ball transfer units allow for even distribution of loads for goods with uneven surfaces.
When used in machines such as punch presses and bend form machines the ball rollers spring back up after the forming process and the finished article can be rolled off.

By the “End tension (N)” the ball has completely receded into the housing.

Drawing reference:
1) load ball
2) bearing balls

Form B: cap and housing galvanized, balls steel
Form C: cap and housing galvanized, balls stainless steel





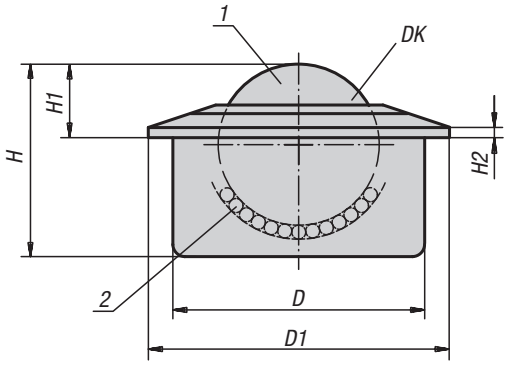
KIPP Ball transfer units with spring element

Order No.	Form	DK	D	D1	H	H1	H2	Pre-tension (N)	End tension (N)	Tol. for pre and end tension (%)
K0762.122	B	22,2	39	50	51,5	18,5	14	730	860	+25 / -7,5
K0762.130	B	30	48,2	62	70	24,4	17,7	1350	1600	+15 / -7,5
K0762.145	B	45	66,4	85	100,5	35,6	24,2	2280	2770	+15 / -7,5
K0762.222	C	22,2	39	50	51,5	18,5	14	730	860	+25 / -7,5
K0762.230	C	30	48,2	62	70	24,4	17,7	1350	1600	+15 / -7,5
K0762.245	C	45	66,4	85	100,5	35,6	24,2	2280	2770	+15 / -7,5

Ball transfer units

with solid steel housing





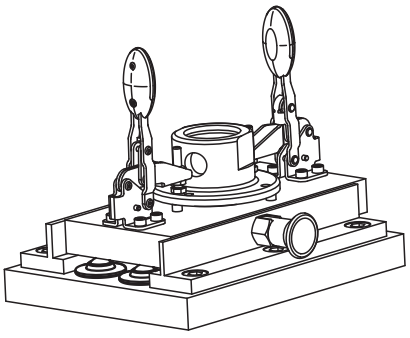
Material:
Steel galvanized.

Sample order:
K0763.160

Note:
Ball transfer units with solid housings remain functional even under heavy impact loads and extreme conditions.
They have a felt seal to protect against dirt.

Drawing reference:
1) load ball
2) bearing balls

Form B: cap and housing galvanized, balls steel
Form C: cap and housing galvanized, balls stainless steel



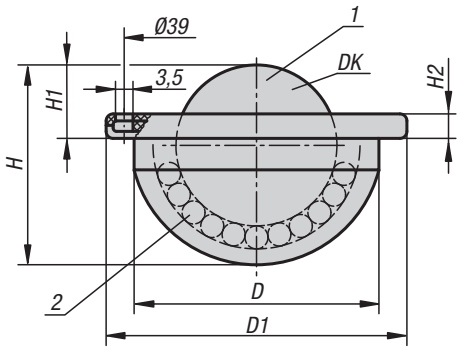
KIPP Ball transfer units with solid steel housing

Order No.	Form	DK	D	D1	H	H1	H2	Load rating C (N)	Suitable tolerance ring
K0763.160	B	57,1	100 ±0,1	117	77,5	29,5	5	15000	K0766.100
K0763.260	C	57,1	100 ±0,1	117	77,5	29,5	5	10000	K0766.100

Ball transfer units

with fastening holes, without housing





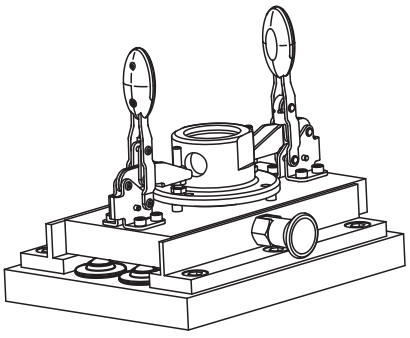
Material:
Steel galvanized.

Sample order:
K0764.122

Note:
Ball transfer units with fastening holes for easy installation and removal.

Drawing reference:
1) load ball
2) bearing balls

Form B: cap and housing galvanized, balls steel
Form C: cap and housing galvanized, balls stainless steel



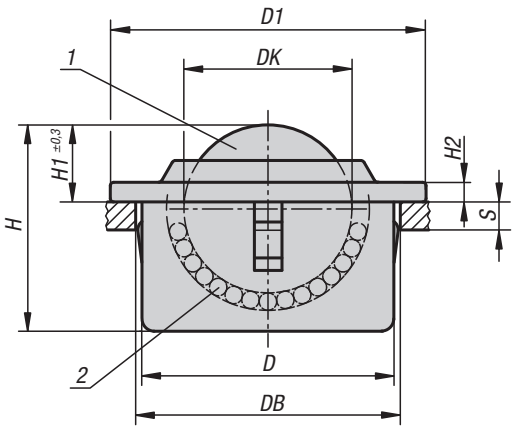
KIPP Ball transfer units with fastening holes, without housing

Order No.	Form	DK	D	D1	H	H1	H2	No. of fastening holes	Load rating C (N)
K0764.122	B	22	33-0,2	45	27,7	9,8±0,2	5	3	1200
K0764.222	C	22	33-0,2	45	27,7	9,8±0,2	5	3	900

Ball transfer units

with spring clips





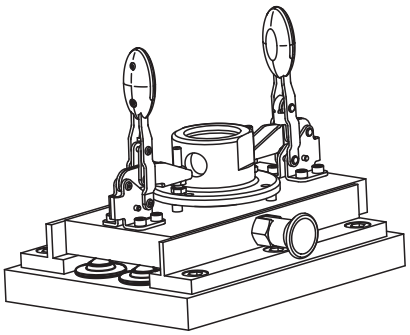
Material:
Steel galvanized.

Sample order:
K0765.122

Note:
Ball transfer units with spring clips for easy installation and removal from the functional side. The roller is held in place with spring clips, this permits generous tolerances in the receiving hole. They have a felt seal to protect against dirt.
S = Minimum nominal thickness of mounting base.

Drawing reference:
1) load ball
2) bearing balls

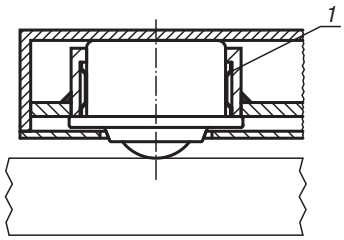
Form B: cap and housing galvanized, balls steel
Form C: cap and housing galvanized, balls stainless steel

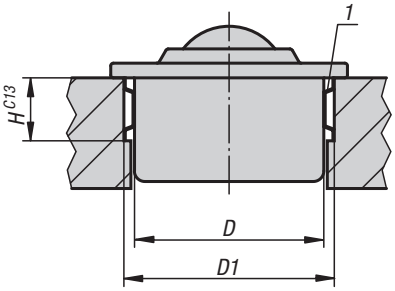


KIPP Ball transfer units with spring clips

Order No.	Form	DK	D	D1	Receiver-Ø DB	H	H1	H2	S	Load rating C (N)
K0765.115	B	15,8	24 ±0,1	31	25 +0,5	21	9,5	2,8	2	600
K0765.122	B	22,2	36 ±0,1	45	37 +0,5	30	9,8	2,8	3	1600
K0765.130	B	30	45 ±0,1	55	46 +0,5	37	13,8	4	6	3000
K0765.215	C	15,8	24 ±0,1	31	25 +0,5	21	9,5	2,8	2	600
K0765.222	C	22,2	36 ±0,1	45	37 +0,5	30	9,8	2,8	3	1600
K0765.230	C	30	45 ±0,1	55	46 +0,5	37	13,8	4	6	3000

Tolerance rings







Material:
Spring band steel

Sample order:
K0766.024

Note:
The use of tolerance rings allows for a greater tolerance range between the parts being assemble. The ball transfer units can be fitted quickly and cost effectively.

Drawing reference:
1) tolerance ring

KIPP Tolerance rings

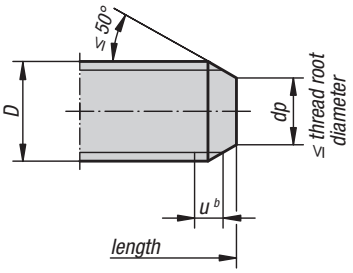
Order No.	D	Assembly dimensions D1	Assembly dimensions H
K0766.024	24	25,7 +0,2	7
K0766.036	36	37,7 +0,2	12
K0766.045	45	46,7 +0,2	12
K0766.062	62	64,1 +0,3	15
K0766.100	100	102,5 +0,35	19

Technical appendix

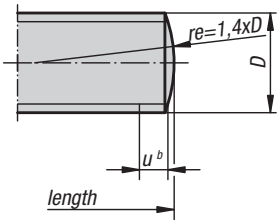
And more of the KIPP workholding programme

DIN EN ISO 4753 thread ends
DIN 6332 thrust points

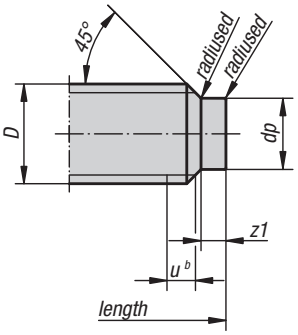
FL flat point



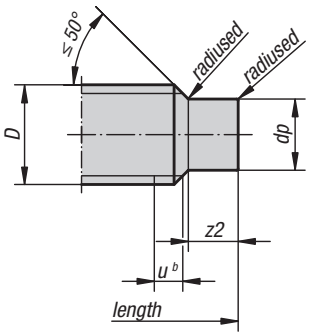
RN rounded end



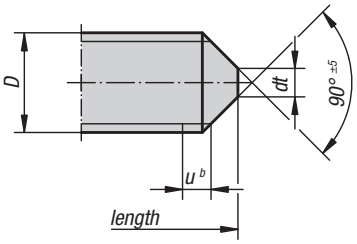
SD short dog



LD long dog



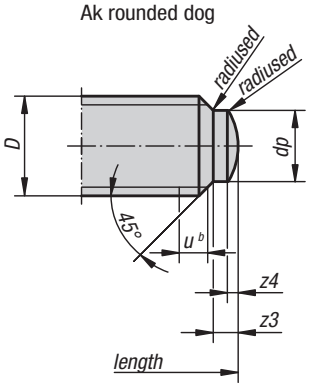
TC truncated cone



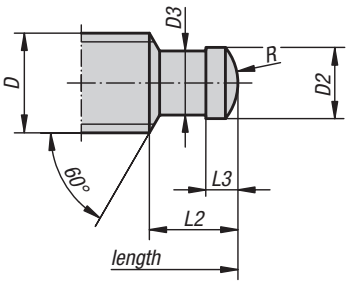
Standard form:
DIN EN ISO 4753 flat point.
Any other thread end available at extra cost, depending on the quantity ordered.

u^b = max. 2P incomplete thread

Ak rounded dog



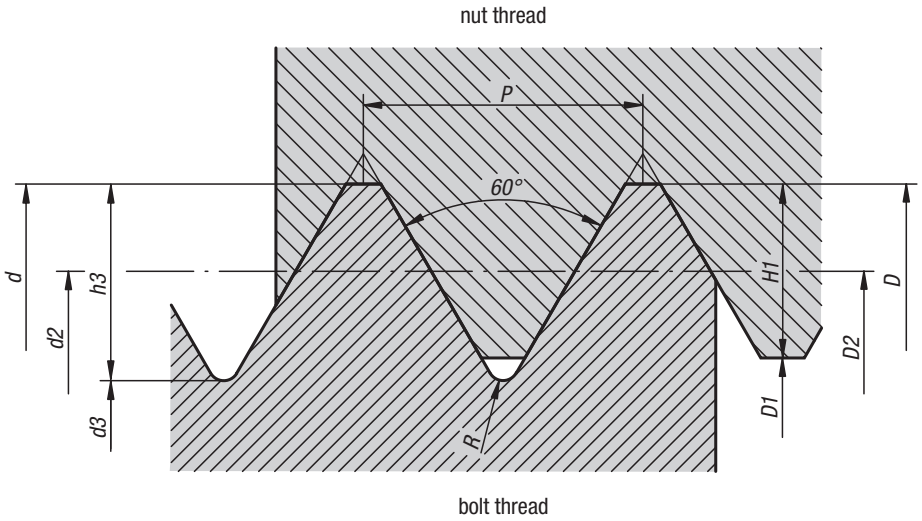
thrust point DIN 6332



Thread diameter D	Thread ends to DIN EN ISO 4753						Thread ends with thrust points to DIN 6332				
	dp h13	dt h16*	z1 +IT14	z2 +IT14	z3 +IT14	z4 ≈	D2 h11	D3 -0,1	L2	L3	R
M4	2.5	–	1	2	1	0.5	–	–	–	–	–
M5	3.5	–	1.25	2.5	1.25	0.6	–	–	–	–	–
M6	4	1.5	1.5	3	1.5	0.7	4.5	4	6	2.5	3
M8	5.5	2	2	4	2	1	6	5.4	7.5	3	5
M10	7	2.5	2.5	5	2.5	1	8	7.2	9	4.5	6
M12	8.5	3	3	6	3	1.25	8	7.2	10	4.5	6
M14	10	4	3.5	7	3.5	1.5	–	–	–	–	–
M16	12	4	4	8	4	1.75	12	11	12	5	9
M18	13	5	4.5	9	4.5	2	–	–	–	–	–
M20	15	5	5	10	5	2	15.5	14.4	14	5.5	13
M22	17	6	5.5	11	5.5	2.5	–	–	–	–	–
M24	18	6	6	12	6	2.5	–	–	–	–	–
M27	21	8	6.7	13.5	6.7	3	–	–	–	–	–

* Up to 5 mm diameter: thread end lightly flattened or lightly rounded.

ISO Metric Screw Threads to DIN 13

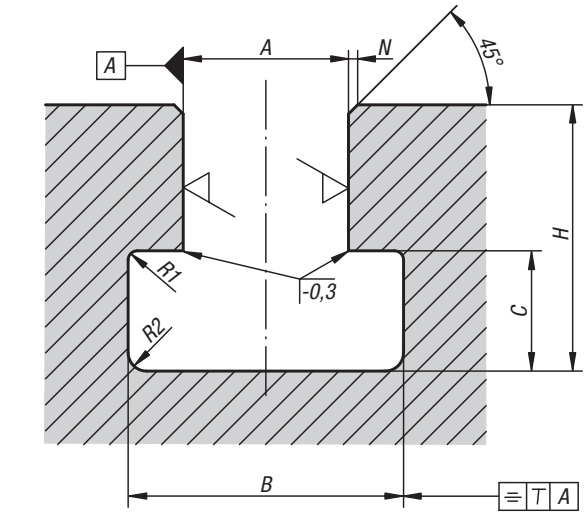


The medium tolerance class applies to the threads listed, i.e. 6H for nut threads and 6g for bolt threads. The (metal) threads in this catalogue are manufactured according to these tolerance classes.

Coarse screw thread series 1

Thread description d = D	Pitch P	Thread-pitch Ø d2 = D2	Minor Ø bolt d3	Minor Ø nut D1	Thread depth bolt h3	Thread depth nut H1	Radius R	Core hole drill Ø
M3	0.5	2.68	2.39	2.46	0.31	0.27	0.07	2.5
M4	0.7	3.55	3.14	3.24	0.43	0.38	0.10	3.3
M5	0.8	4.48	4.02	4.13	0.49	0.43	0.12	4.2
M6	1	5.35	4.77	4.92	0.61	0.54	0.14	5
M8	1.25	7.19	6.47	6.65	0.77	0.68	0.18	6.8
M10	1.5	9.03	8.16	8.38	0.92	0.81	0.22	8.5
M12	1.75	10.86	9.85	10.11	1.07	0.95	0.25	10.2
M16	2	14.70	13.55	13.84	1.23	1.08	0.29	14
M20	2.5	18.38	16.93	17.29	1.53	1.35	0.36	17.5
M24	3	22.05	20.32	20.75	1.84	1.62	0.43	21
M30	3.5	27.73	25.71	26.21	2.15	1.89	0.51	26.5
M36	4	33.40	31.09	31.67	2.45	2.17	0.58	32

DIN 650 T-Slots

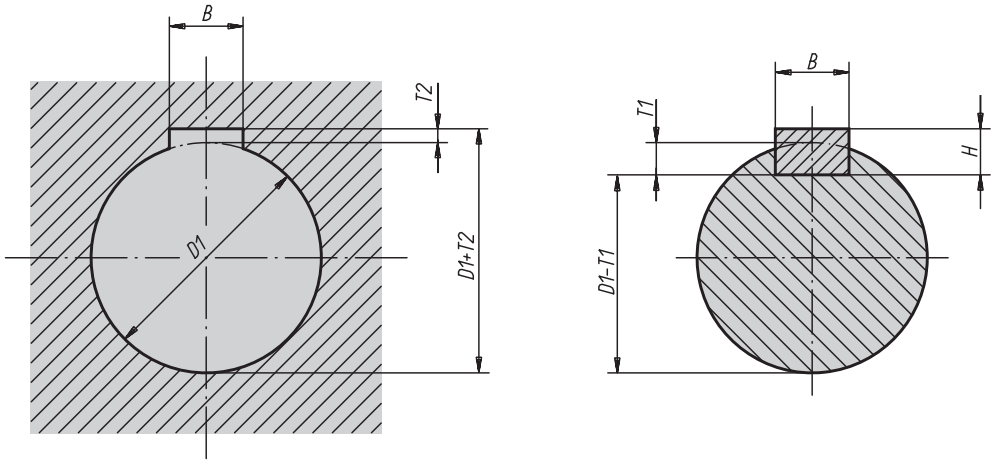


6.3 (= 1.6 for tolerance H8 or = 3.2 for tolerance H12)

A*	B	B permissible deviation	C	C permissible deviation	H max.	H min.	N max.	R1 max.	R2 max.	T
6	11	+1.5 0	5	+1 0	13	11	1	0.6	1	0.5
8	14.5		7		18	15	1	0.6	1	0.5
10	16	+2 0	7		21	17	1	0.6	1	0.5
12	19		8		25	20	1	0.6	1	0.5
14	23		9	+2 0	28	23	1.6	0.6	1.6	0.5
18	30		12		36	30	1.6	1	1.6	0.5
22	37	+3 0	16		45	38	1.6	1	2.5	0.5
28	46	+4 0	20		56	48	1.6	1	2.5	0.5
36	56		25	+3 0	71	61	2.5	1	2.5	1
42	68		32		85	74	2.5	1.6	4	1

* Tolerance H8 for tenon and clamping slots, H12 for clamping slots

DIN 6885 keyways and parallel keys



High form (sheet 1)

For shaft Ø D1	Keyway B* tight fit P9	Keyway B* sliding fit N9	Keyway B* tight fit P9	Keyway B* sliding fit IS9	H	T1 with back clearance	T2 back clearance	T2 oversize
over 8 up to 10	3	3	3	3	3	$1.8^{+0.1}$	$1.4^{+0.1}$	$0.9^{+0.1}$
over 10 up to 12	4	4	4	4	4	$2.5^{+0.1}$	$1.8^{+0.1}$	$1.2^{+0.1}$
over 12 up to 17	5	5	5	5	5	$3^{+0.1}$	$2.3^{+0.1}$	$1.7^{+0.1}$
over 17 up to 22	6	6	6	6	6	$3.5^{+0.1}$	$2.8^{+0.1}$	$2.2^{+0.1}$
over 22 up to 30	8	8	8	8	7	$4^{+0.2}$	$3.3^{+0.2}$	$2.4^{+0.2}$
over 30 up to 38	10	10	10	10	8	$5^{+0.2}$	$3.3^{+0.2}$	$2.4^{+0.2}$
over 38 up to 44	12	12	12	12	8	$5^{+0.2}$	$3.3^{+0.2}$	$2.4^{+0.2}$
over 44 up to 50	14	14	14	14	9	$5.5^{+0.2}$	$3.8^{+0.2}$	$2.9^{+0.2}$
over 50 up to 58	16	16	16	16	10	$6^{+0.2}$	$4.3^{+0.2}$	$3.4^{+0.2}$

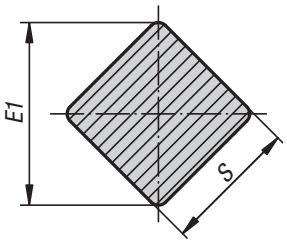
High form for machine tools (sheet 2)

For shaft Ø D1	Shaft slot B* tight fit P9	Shaft slot B* sliding fit N9	Keyway B* tight fit P9	Keyway B* sliding fit IS9	H	T1	T2
over 10 up to 12	4	4	4	4	4	$3^{+0.1}$	$1.1^{+0.1}$
over 12 up to 17	5	5	5	5	5	$3.8^{+0.1}$	$1.3^{+0.1}$
over 17 up to 22	6	6	6	6	6	$4.4^{+0.1}$	$1.7^{+0.1}$
over 22 up to 30	8	8	8	8	7	$5.4^{+0.2}$	$1.7^{+0.2}$
over 30 up to 38	10	10	10	10	8	$6^{+0.2}$	$2.1^{+0.2}$
over 38 up to 44	12	12	12	12	8	$6^{+0.2}$	$2.1^{+0.2}$
over 44 up to 50	14	14	14	14	9	$6^{+0.2}$	$2.6^{+0.2}$
over 50 up to 58	16	16	16	16	10	$7.5^{+0.2}$	$2.6^{+0.2}$

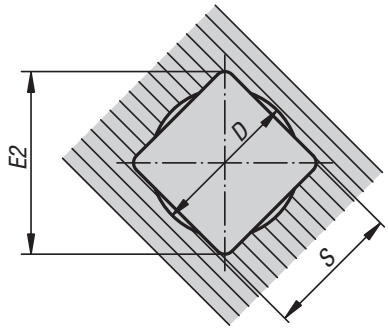
* The indicated tolerances for keyway widths apply, as a rule, for milled keyways.
ISO quality IT8 (i.e. P8 instead of P9, N8 instead of N9 and IS8 instead of IS9) are recommended for the width of broached keyways.
Tolerance H9 for the shaft keyway and D10 for the hub keyway are recommended for sliding fits.

Squares for DIN 79
operating spindles and operating parts

A External square



B Internal square



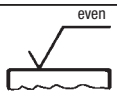
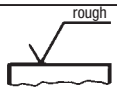
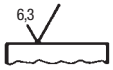
S H11 / h11	D max.*	E1 max.	E1 min.**	E2 min.
4	4.2	5	4.8	5.3
5	5.3	6.5	6	6.6
5.5	5.8	7	6.6	7.2
6	6.3	8	7.2	8.1
7	7.3	9	8.4	9.1
8	8.4	10	9.6	10.1
9	9.5	12	10.8	12.1
10	10.5	13	12	13.1
11	11.6	14	13.2	14.1
12	12.6	16	14.4	16.1
13	13.7	17	15.6	17.1
14	14.7	18	16.8	18.1
16	16.8	21	19.2	21.2
17	17.9	22	20.4	22.2
19	20	25	22.8	25.2
22	23.1	28	26.4	28.2

* Internal squares can be recessed in the middle third of each side.
D max. defines the hole diameter which leaves appropriate clearance when bored concentric to the internal square.

** External squares made from round steel bar may fall below the minimum size by the amount of tolerance on the steel bar, i.e. by h11.

DIN ISO 1302 surface finish indication
DIN ISO 2768 T1 and T2 general tolerances

DIN ISO 1302 surface finish indication

Graphical symbol of surface finish to DIN 3141	Surface finish values, R_a for permissible roughness height R_t assignation according to DIN 3141 line 1 / line 2	meaning according to ISO 1302
(Surface without graphical symbol)		Surfaces which do not need to meet specific requirements
		Surfaces which only have to meet requirements of general evenness and better appearance
		Individual raw surfaces which may be remachined
		Clean raw surface with higher requirements
		Surface with a roughness value which must not exceed the highest permissible medium roughness value
		
		

- KIPP products are adapted and manufactured in such a way that they are suitable for their general purpose with reference to material and surface finish. As such, they meet all normal tolerance requirements.
- All dimensions are indicated in mm.
- The latest DIN standard sheet version applies to all parts made to DIN standards.
- Variations on dimensions without tolerance values are according to "DIN ISO 2768-mk".

General tolerances for linear and angular dimensions (DIN ISO 2768 T1)

		Linear Dimensions							
Tolerance class		Deviations limits mm for nominal dimension ranges							
abbreviation	description	0.5 up to 3	over 3 up to 6	over 6 up to 30	over 30 up to 120	over 120 up to 400	over 400 up to 1000	over 1000 up to 2000	over 2000 up to 4000
f	fine	± 0.05	± 0.05	± 0.1	± 0.15	± 0.2	± 0.3	± 0.5	–
m	medium	± 0.1	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2
c	coarse	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3	± 4
v	very coarse	–	± 0.5	± 1	± 1.5	± 2.5	± 4	± 6	± 8

		External Radii and Chamfer Heights			Angular Dimensions				
Tolerance class		Deviations limits mm for nominal dimension ranges			Deviation limits degrees and minutes for nominal dimension ranges (short leg)				
abbreviation	description	0.5 up to 3	over 3 up to 6	over 6	over 10	over 10 up to 50	over 50 up to 120	over 120 up to 400	over 400
f	fine	± 0.2	± 0.5	± 1	± 1°	± 0°30’	± 0°20’	± 0°10’	± 0°5’
m	medium	± 0.2	± 0.5	± 1	± 1°	± 0°30’	± 0°20’	± 0°10’	± 0°5’
c	coarse	± 0.4	± 1	± 2	± 1°30’	± 1°	± 0°30’	± 0°15’	± 0°10’
v	very coarse	± 0.4	± 1	± 2	± 3°	± 2°	± 1°	± 0°30’	± 0°20’

General Tolerances for Form and Position (DIN ISO 2768 T2)

	Straightness and Flatness						Perpendicularity				Symmetry				Run-out
	nominal dimension ranges mm						nominal dimension ranges mm				nominal dimension ranges mm				
Tolerance class	up to 10	over 10 up to 30	over 30 up to 100	over 100 up to 300	over 300 up to 1000	over 1000 up to 3000	up to 100	over 100 up to 300	over 300 up to 1000	over 1000 up to 3000	up to 100	over 100 up to 300	over 300 up to 1000	over 1000 up to 3000	
H	0.02	0.05	0.1	0.2	0.3	0.4	0.2	0.3	0.4	0.5	0.5	0.5	0.5	0.5	0.1
K	0.05	0.1	0.2	0.4	0.6	0.8	0.4	0.6	0.8	1	0.6	0.6	0.8	1	0.2
L	0.1	0.2	0.4	0.8	1.2	1.6	0.6	1	1.5	2	0.6	1	1.5	2	0.5

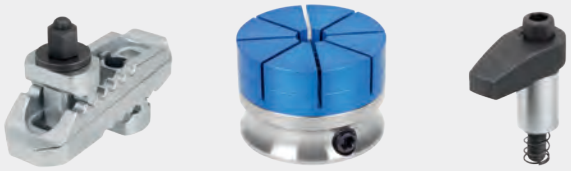
KIPP CLAMPING TECHNOLOGY

With more than 2800 components, KIPP offers a wide workholding range. The systems are of modular design and compatible with each other, guaranteeing minimum setup times for your machine tools.



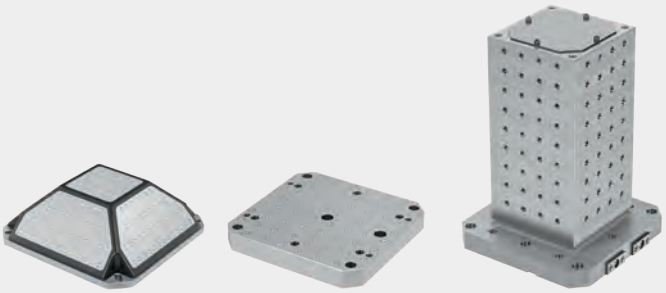
WORKHOLDING TECHNOLOGY

Diverse component program for the universal clamping of workpieces. Logically structured product groups such as clamping elements, positioning elements and clamping accessories for machine tools. Freely combinable and very flexible.



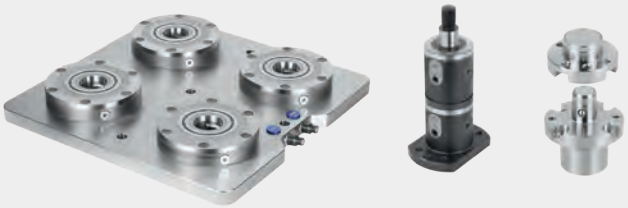
MODULAR CLAMPING TECHNOLOGY

Basic elements for modular workholding over grid holes Standardised plates, towers and angles improve the flexibility and reduce the number of fixture elements in machining to a minimum.



ZERO POINT CLAMPING TECHNOLOGY

Systems for quick, precise clamping and referencing with the zero-point clamping technology. The 5-axis module clamping system is available for multi-side machining. Other quick-change systems are the mechanical and pneumatic positioning and clamping systems.



VICE CLAMPING TECHNOLOGY

Various vice types. 5-axis clamping systems for 5-sided machining. NC vices for 3-axis milling machines. Multi-clamping systems for large quantities. Centric vices with zero-point and automaton interface.



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☐ 1 up to 10 ☐ 100 up to 500
☐ 10 up to 25 ☐ 500 up to1000
☐ 25 up to100 ☐ over 1000

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Title ☐ Mrs. ☐ Mr.

Surname

First name

Department

Business telephone number in case of queries

Business mobile telephone Fax

E-Mail address

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Your way to KIPP



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By car.
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Left onto L 409
Right onto K 5505 and K 5508 to Holzhausen

From Switzerland
Zurich A 1/A 4 direction Schaffhausen-Süd
Exit A 4/15 direction border crossing
A 81 direction Stuttgart exit Sulz a.N.

From France
Strasbourg border crossing Kehl
B 28 to Freudenstadt
B 294 to Lossburg
L 412 to Leinstetten
L 409 to Sulz

By air.
Stuttgart Airport, Kloten Zurich, Euro-Airport Basel, Baden Airport Rheinmünster-Söllingen



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