CESEHSA
soluciones

BALL LOCK PINS

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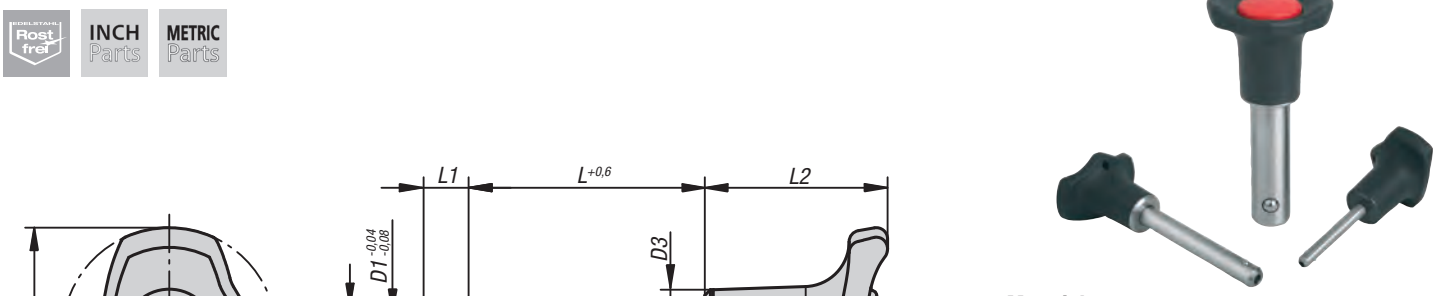
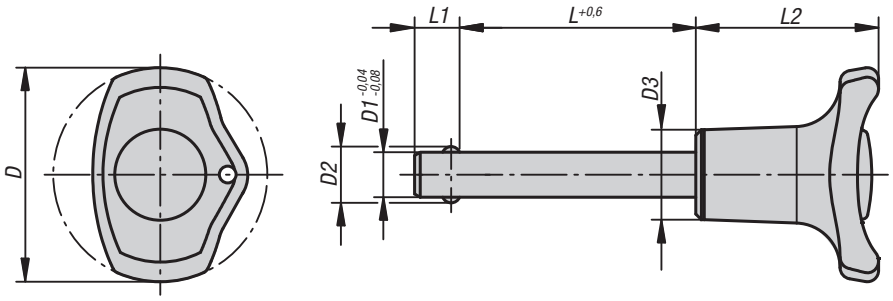
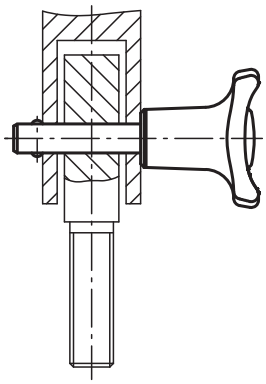
Ball Lock Pins

self locking







Part Number Example (inch):
Ball Lock Pin K0363.38CLL08
(include length L,
e.g. L08 for L = 0,5)
0,5 = L08
0,75 = L12
1,0 = L16
1,25 = L20
1,5 = L24
1,75 = L28
2,0 = L32
2,5 = L36
3,0 = L40

Material:
Grip and push button thermoplastic.
Steel parts stainless steel.

Type:
Grip, black.
Push button, red
Steel parts, natural finish.

Part Number Example:
K0363.3806050
(include length L e.g. 050 for L = 50 mm)

Note:
Ball Lock Pins allow instant bolting of two workpieces. Two spring pressure balls automatically lock the pin in place.
Pressing the push button will release the ball and efficently unlock the pin.

Shearing force double-edged (F) = S · τ aB max.

Accessories:
Safety Spiral Cable K0367.10200 Retaining Cable with eye K0367. .... Pin Retaining Ring K0367.15/19/23 Bushing for ball lock pins K0724....

KIPP Ball Lock Pins, self-locking, inch

Item No.	D	D1	D2	D3	L	L1	L2	Receiving hole H11	Shear force kN
K0363.38CL* **	38	3/16	5,25	16	0,5/0,75/1,0/1,25	6	32,5	3/16	13
K0363.38CM* **	38	1/4	7,2	16	0,5/0,75/1,0/1,25/1,5/1,75/2,0	6,9	32,5	1/4	24
K0363.38CN* **	38	5/16	9,5	16	1,0/1,25/1,5/1,75/2,0	7,9	32,5	5/16	38
K0363.47CO* **	47	3/8	11,5	23	1,0/1,25/1,5/1,75/2,0	8,8	40	3/8	54
K0363.47CU* **	47	7/16	13	23	1,0/1,25/1,5/1,75/2,0/2,5/3,0	9,7	40	7/16	74
K0363.47CP* **	47	1/2	15	23	1,0/1,25/1,5/1,75/2,0/2,5/3,0	10	40	1/2	96
K0363.47CQ* **	47	5/8	19	23	1,0/1,25/1,5/1,75/2,0/2,5/3,0	13,3	40	5/8	150

KIPP Ball Lock Pins, self-locking, metric

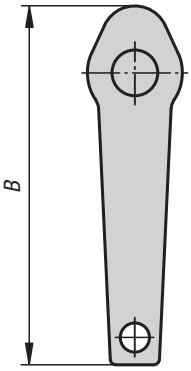
Item No.	D	D1	D2	D3	L	L1	L2	Receiving hole H11	Shearing force double shear max. kN
K0363.3805* **	38	5	5,5	16	10/15/20/25/30	6	32,5	5	15
K0363.3806* **	38	6	6,85	16	10/15/20/25/30/35/40/45/50	7	32,5	6	22
K0363.3808* **	38	8	9,5	16	20/25/30/35/40/45/50	8	32,5	8	38
K0363.4710* **	47	10	12	23	20/25/30/35/40/45/50/60	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

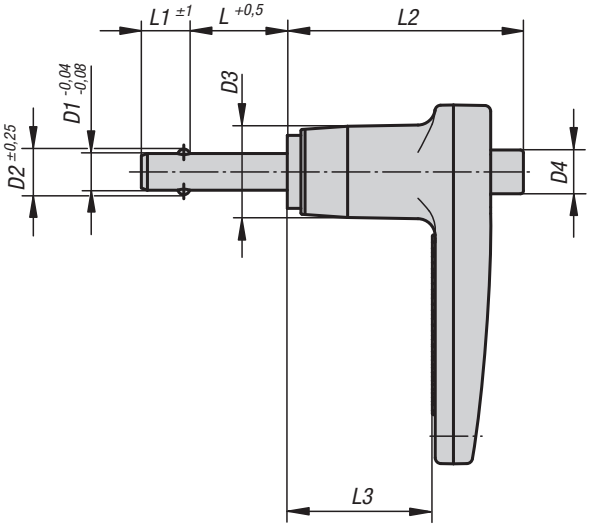
Ball Lock Pins

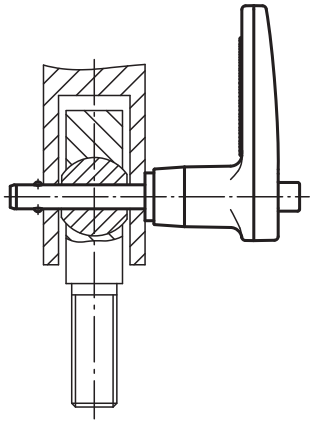
with L-grip, self-locking

New Item

METRIC Parts







Material:
Pin stainless steel 1.4542.
Grip die-cast aluminum EN-AC 46000.
Push button aluminum EN-AW 2024 T4.
Balls stainless steel 1.4125.
Compression spring stainless steel.

Type:
All stainless steel parts passivated.
Pin hardened to min. 40 HRC.
Grip black anodized.
Push button blue anodized.
Balls hardened to 58 +4 HRC.

Part Number Example:
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 eye K0367. ....
Pin Retaining Ring K0367.15/19/23
Bushing for ball lock pins K0724....

KIPP Ball lock pins with L-grip, self-locking, metric

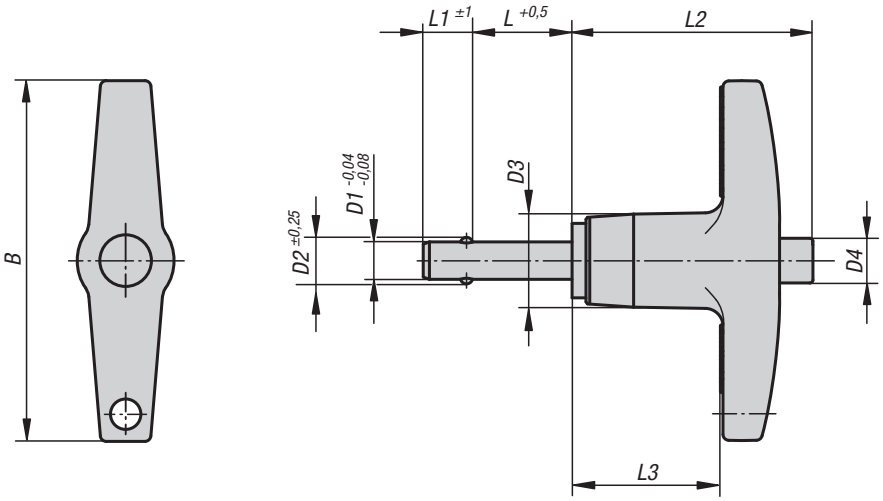
Item No.	B	D1	D2	D3	D4	L	L1	L2	L3	Receiving hole H11	Shearing force double shear max. kN
K0642.14405* **	46,7	5	5,54	11,9	5,8	10/15/20/25/30/35/40/50/60/70	6	30,7	19,3	5	24,4
K0642.14406* **	46,7	6	6,99	11,9	5,8	10/15/20/25/30/35/40/50/60/70/80	7	30,7	19,3	6	35,64
K0642.14408* **	46,7	8	9,42	11,9	5,8	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

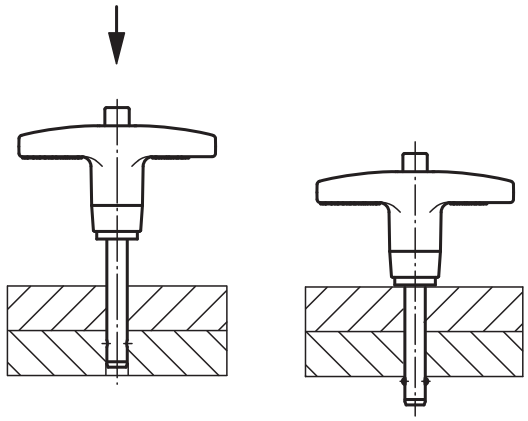
Ball Lock Pins

with T-grip, self-locking

METRIC Parts

New Item





Material:
Pin stainless steel 1.4542.
Grip die-cast aluminum EN-AC 46000.
Push button aluminum EN-AW 2024 T4.
Balls stainless steel 1.4125.
Compression spring stainless steel.

Type:
All stainless steel parts passivated.
Pin hardened to min. 40 HRC.
Grip black anodized.
Push button blue anodized.
Balls hardened to 58 +4 HRC.

Part Number Example:
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.

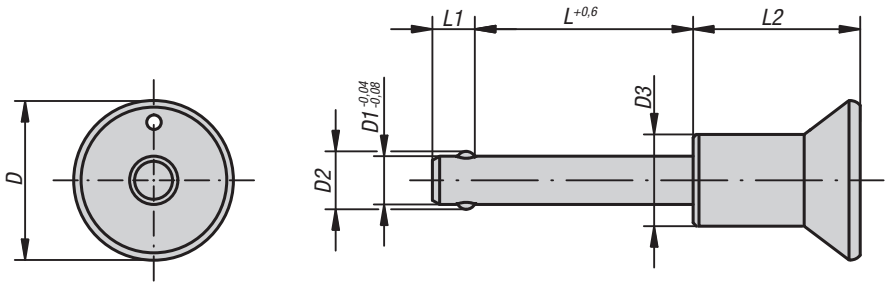
Accessories:
Safety Spiral Cable K0367.10200
Retaining Cable with eye K0367. ....
Pin Retaining Ring K0367.15/19/23
Bushing for ball lock pins K0724....

KIPP Ball Lock Pins with T-grip, self-locking

Item 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

Button Head Style, self-locking, stainless steel



Material:
Steel parts stainless steel.

Type:
Natural finish.

Part Number Example:
K0364.3110030
(include length L e.g. 030 for L = 30 mm.)

Note:
Ball Lock Pins allow instant bolting of two workpieces. Two spring pressure balls automatically lock the pin in place. Pressing the push button will release the ball and efficently unlock the pin. Corrosion resistant.
Heat resistance up to: +250 °C/+483 °F.

Shearing force double shear (F) = S · τ aB max.

Accessories:
Safety Spiral Cable K0367.10200 Retaining Cable with eye K0367. .... Pin Retaining Ring K0367.15/19/23 Bushing for ball lock pins K0724....

Part Number Example (inch):
Ball Lock Pin K0364.23CLL08
(include length L,
e.g. L08 for L = 0,5)
0,5 = L08
0,75 = L12
1,0 = L16
1,25 = L20
1,5 = L24
1,75 = L28
2,0 = L32
2,5 = L36
3,0 = L40

KIPP Ball Lock Pins, button head style, self-locking, stainless steel, inch

Item No.	D	D1	D2	D3	L	L1	L2	Receiving hole H11	Shearing force double shear max. kN
K0364.23CL* **	25	3/16	5,25	14	0,5/0,75/1,0/1,25	6	26,5	3/16	13
K0364.23CM* **	25	1/4	7,2	14	0,5/0,75/1,0/1,25/1,5/1,75/2,0	6,9	26,5	1/4	24
K0364.23CN* **	25	5/16	9,5	14	1,0/1,25/1,5/1,75/2,0	7,9	26,5	5/16	38
K0364.31CO* **	33	3/8	11,5	19	1,0/1,25/1,5/1,75/2,0	8,8	34,6	3/8	54
K0364.31CU* **	33	7/16	13	19	1,0/1,25/1,5/1,75/2,0/2,5/3,0	9,7	34,6	7/16	74
K0364.31CP* **	33	1/2	15	19	1,0/1,25/1,5/1,75/2,0/2,5/3,0	10	34,6	1/2	96
K0364.31CQ* **	33	5/8	19	20	1,0/1,25/1,5/1,75/2,0/2,5/3,0	13,3	34,6	5/8	150

KIPP Ball Lock Pins, button head style, self-locking, stainless steel, metric

Item 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

New Item

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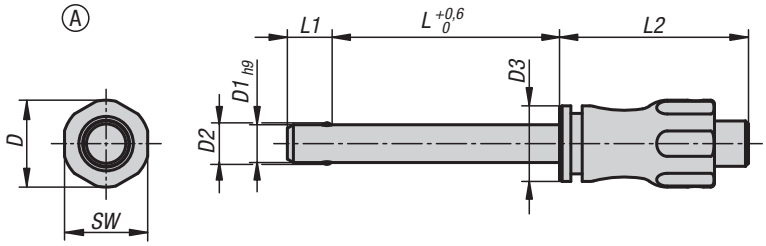

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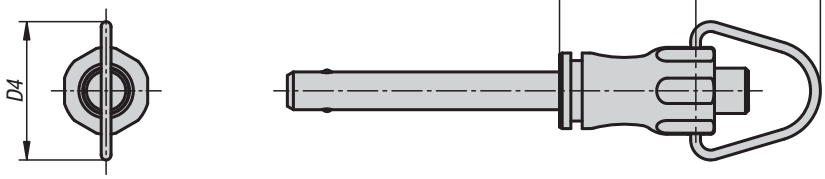
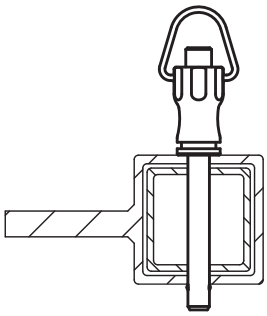




Material:
Grip and push button stainless steel 1.4305.
Pin stainless steel 1.4305.
Balls stainless steel 1.4125.
Compression spring and handle stainless steel 1.4310.

Type:
Natural finish.

Part Number Example:
K0790.001508050
(include length L e.g. 050 for L = 50 mm)

Note:
Ball Lock Pins allow instant bolting of two workpieces. Two spring pressure balls automatically lock the pin in place.
Pressing the push button will release the ball and efficently unlock the pin.

Shearing force double-edged (F) = S · τ aB max.

Accessories:
Safety Spiral Cable K0367.10200
Retaining Cable with eye K0367. ....
Pin Retaining Ring K0367.15/19/23
Bushing for ball lock pins K0724....

KIPP Ball Lock Pins stainless steel self-locking, Style A, metric

Item No.	Style	D	D1	D2	D3	L	L1	L2	SW	Receiving hole H11	Shearing force double shear max. kN
K0790.001205* **	A	11,5	5	5,5	10	10/15/20/25/30	5,9	25	11	5	15
K0790.001206* **	A	11,5	6	6,85	10	10/15/20/25/30/35/40/45/50	6,8	25	11	6	22
K0790.001508* **	A	15,5	8	9,5	13,5	20/25/30/35/40/45/50	7,8	33	15	8	38
K0790.001510* **	A	15,5	10	12	13,5	20/25/30/35/40/45/50/60	8,9	33	15	10	60
K0790.002112* **	A	22	12	14,5	20	25/30/35/40/45/50/60/70/80	9,9	39,5	21	12	86
K0790.002116* **	A	22	16	19	20	30/35/40/45/50/60/70/80	13,1	39,5	21	16	153

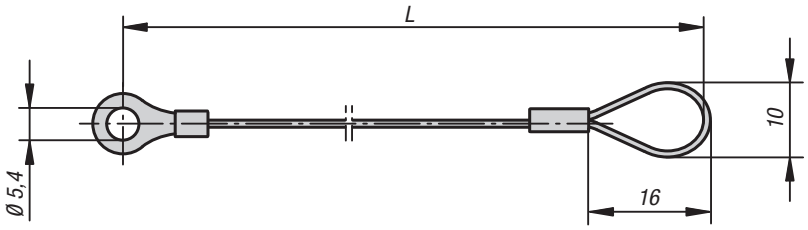
KIPP Ball Lock Pins stainless steel self-locking, Style B, metric

Item No.	Style	D	D1	D2	D3	D4	L	L1	L2	L3	L4	SW	Receiving hole H11	Shearing force double shear max. kN
K0790.101205* **	B	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* **	B	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* **	B	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* **	B	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* **	B	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* **	B	22	16	19	20	33	30/35/40/45/50/60/70/80	13,1	39,5	59,3	30,3	21	16	153

Pin Retaining Cables

with eye

METRIC Parts

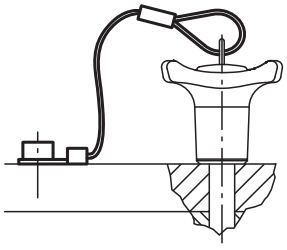


Material:
Retaining cable in stainless steel.
Clip and eye in aluminum.

Type:
Cable plastic coated.

Part Number Example:
K0367.0150

Note:
With the Retaining Cable and Pin Ring (K0367) the Ball Lock Pins (K0363, K0364, K0366, K0642 and K0790) can be secured so that they cannot be lost.
A screw M5 is used to secure the retaining cable.
Application temperature: +80 °C.

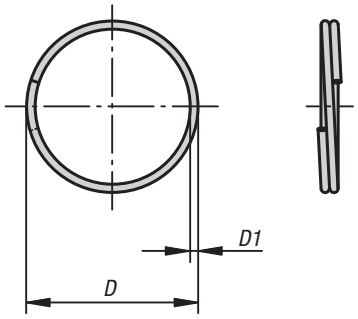


KIPP Pin Retaining Cables with eye, metric

Item No.	L
K0367.0150	150
K0367.0200	200
K0367.0300	300

Pin Retaining Rings

stainless steel



Material:
Stainless steel 1.4310.

Type:
Natural finish.

Part Number Example:
K0367.15

Note:
Suitable for Pin Retaining Cables (K0367),
Ball Lock Pins (K0363, K0364, K0366, K0642, K0790)
Indexing Plungers (K0342).

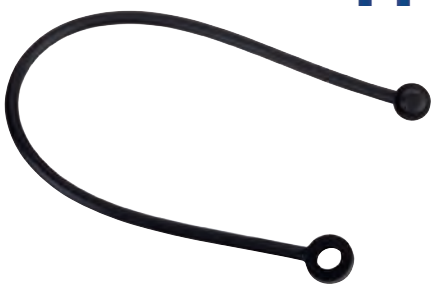
KIPP Pin Retaining Rings, metric

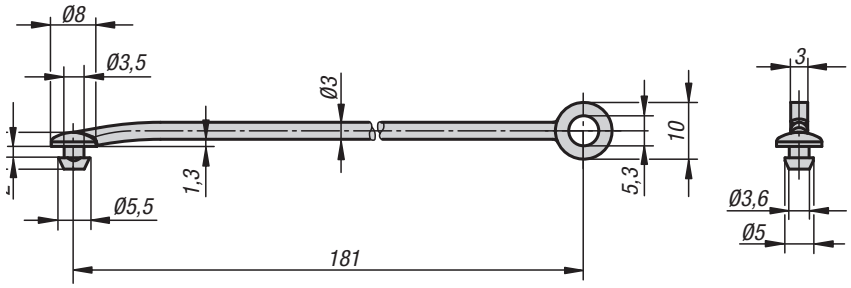
Item No.	D	D1
K0367.15	15	1
K0367.19	19	1
K0367.23	23	1,2
K0367.28	28	1,7

Safety Lanyard

New Item

METRIC Parts





Material:
Thermoplastic urethane TPU.

Part Number Example:
K0743.04190

Note:
The safety lanyard is distinguished by its high elasticity and good rebound resilience. Depending on the wall thickness, it can be used to secure almost every operating part, fastening element or other objects.

It was especially conceived for the star grips K0154 and K0155.

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

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

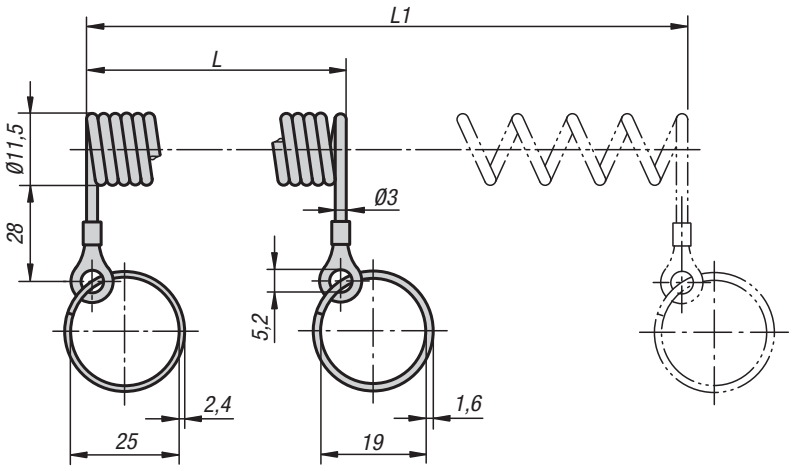
KIPP Safety lanyard

Item No.	Dimensions
K0743.04190	see drawing

Safety spiral cables

New Item

METRIC Parts



Material:
Spiral cable PUR.
Eye copper or stainless steel.
Key ring steel or stainless steel.

Type:
Spiral cable black.
Eye, brass galvanized - stainless steel bright.
Key ring, steel chromate - stainless steel bright.

Part Number Example:
K0367.10200

Note:
Elastic spiral cable to secure equipment parts. Very good reset force, robust and wear-resistant.

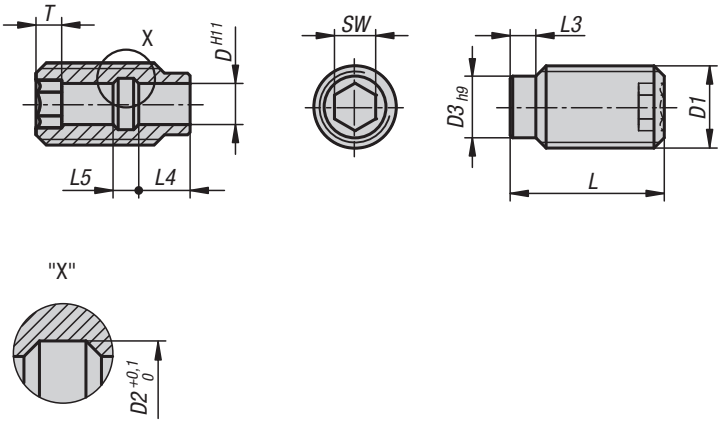
KIPP Safety spiral cables

Item 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

Notes:

Bushing for ball lock pins

New Item



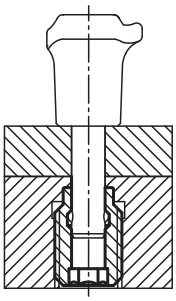
Material:
Stainless steel 1.4305.

Type:
Steel parts natural finish.

Part Number Example:
K0724.11224

Note:
Ball lock pin bushings are ideal for the easy and quick positioning of ball lock pins.

Benefits:
- The bushing is centered by the centering collar.
- easy and reliable positioning.
- can be screwed into various materials.
- usable from both ends.



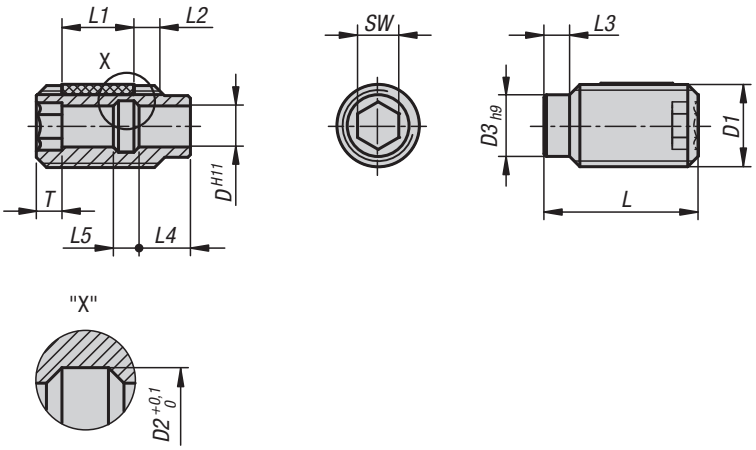
KIPP Bushings for ball lock pins, metric

Item 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

New Item



Material:
Stainless steel 1.4305

LONG-LOK thread system in nylon

Type:
Steel parts natural finish.

Part Number Example:
K0724.112241

Note:
Ball lock pin bushings are ideal for the easy and quick positioning of ball lock pins.

Benefits:
- the bushing is centered by the centering collar.
- easy and reliable positioning.
- can be screwed into various materials.
- usable from both ends
- the LONG-LOK thread lock allows the depth to be matched exactly to existing components, no locknut is required.

Drawing reference:
L2 = approx. 2x thread pitch

KIPP Bushings for ball locking pins, with LONG-LOK thread lock, metric

Item 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

Notes:

Reference Table - Conversion of Measurements

Pressure		
From	**To**	**Conversion**
psi	Kilopond/cm² (kp/cm²)	psi x 0.07031 = kp/cm²
Kilopond/cm² (kp/cm²)	psi	kp/cm² x 14.22 = psi
psi	Bar	psi x 0.07 = Bar
Bar	psi	Bar x 14.29 = psi

Linear Measure		
From	**To**	**Conversion**
Inch (in)	Millimeter (mm)	in x 25.4 = mm
Millimeter (mm)	Inch (in)	mm x 0.03937 = in
Inch	Millimeter (mm)	Inch x 25.4 = mm
Millimeter (mm)	Inch	mm x 0.03937 = Inch
Foot	Meter (m)	Foot x 0.3048 = m
Meter (m)	Foot	m x 3.281 = Foot
Yard	Meter (m)	Yard x 0.9144 = m
Meter (m)	Yard	m x 1.0936 = Yard
Miles (mls)	Kilometer (km)	mls x 1.609 = km
Kilometer (km)	Miles (mls)	km x 0.622 = mls

Forces		
From	**To**	**Conversion**
Pounds (lbs)	Newton (N)	lbs x 4.45 = N
Newton (N)	Pounds (lbs)	N x 0.225 = lbs
PS (horsepower)	Kilowatt (kW)	PS x 0.735 = kW
Kilowatt (kW)	PS (horsepower)	kW x 1.36 = PS

Weights		
From	**To**	**Conversion**
Pounds (lbs)	Kilopond/cm² (kp/cm²)	lbs x 0.45 = kp/cm²
Kilopond/cm² (kp/cm²)	Pounds (lbs)	kp/cm² x 2.2 = lbs
Ounces (oz)	Gramm (g)	oz x 28 = g
Gramm (g)	Ounces (oz)	g x 0.035 = oz
Pounds (lbs)	Kilogramm (kg)	lbs x 0.4536 = kg
Kilogramm (kg)	Pounds (lbs)	kg x 2.205 = lbs

Torque		
From	**To**	**Conversion**
Foot-pounds (ft-lbs)	Newton-Meter (Nm)	ft/lbs x 1.35 = Nm
Newton-Meter (Nm)	Foot-pounds (ft-lbs)	Nm x 0.74 = ft/lbs
Newton-Meter (Nm)	Kilopond/cm (kp/cm)	Nm x 0.102 = kp/cm

General Information about:

KIPP Clamping Tools

KIPP Operating Parts

Novo·Grip

Sympa Touch

KIPP Machine and Jig Devices

Materials:
POM = Polyoxymethylene - Delrin®
Deviating from the standard design, other materials and quality classes are available on request.

Surface finishes:
Other surface finishes are available at additional cost, e.g. matte-finished or high-polish chromium-plated steel parts.
Other colors are also available on request for plastic coatings or molded plastic parts.

Threads:
Threads are manufactured to ISO DIN 13 medium tolerance class, i.e. 6H for nut threads and 6g for bolt threads. External threads up to 60 mm are generally supplied fully threaded. Screw lengths of 70 mm and more are supplied with 60 mm long threads.

Threads of aluminum grips:
Especially threads of aluminum grips cannot be true to gauge size due to final surface finish refinement and the removal of material during related pretreatment.
The majority of these threads are moulded in order to strengthen the material. As a result, the tearing resistance of aluminum for a thread with M5x10 is higher than 2000 N.

Special versions:
KIPP Clamp and Tension Levers can also be supplied on request with predrilled inserts, locating holes, locating bolts for pinning and other thread ends to DIN 78 (except for flat point) and to DIN 6332.

As a basic rule, you can rely on us as a competent partner for your daily clamping needs. We are always happy to advise you.

Thread Pitch Chart:

Metric Coarse Thread:	Metric Fine Thread:
M3 X 0.5	M3 X 0.35
M4 X 0.7	M4 X 0.50
M5 X 0.8	M5 X 0.50
M6 X 1.0	M6 X 0.75
M8 X 1.25	M8 X 1.00
M10 X 1.5	M10 X 1.25
M12 X 1.75	M12 X 1.50
M14 X 2.00	M14 X 1.50
M16 X 2.00	M16 X 1.50
M18 X 2.50	M18 X 1.5
M20 X 2.50	M20 X 1.5
M22 X 2.50	M24 X 1.5
M24 X 3.00	M24 X 2.0

Conversion Chart:

10mm = .39"
12mm = .47"
15mm = .59"
20mm = .79"
25mm = .98"
30mm = 1.18"
25mm = 1.38"
40mm = 1.57"
45mm = 1.77"
50mm = 1.97"
55mm = 2.17"
60mm = 2.36"
70mm = 2.76"
80mm = 3.15"
90mm = 3.54"

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