INOCON

Plastic tube clamps

Innovative assembly components inocon.de

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KS.P Cross clamps, plastic

PRODUCT INFO

Cross clamps KS.P of glass fiber reinforced polyamide have slitted clamping points.

The bores of the clamping points are offset in the plane and arranged at an angle of 90°. They receive typically available construction tubes with full surface contact over the entire cross-section of the bore.

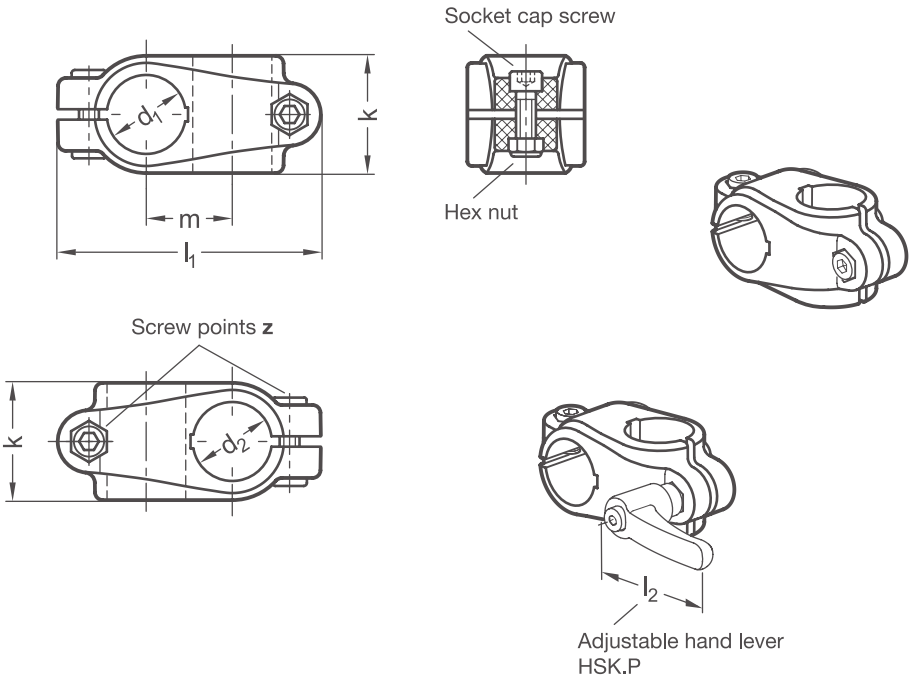
Adapter bushings RBS.P can be used to reduce the bore cross-sections to a smaller diameter.

At the screw points, hex socket cap screws or adjustable hand levers reduce the bore cross-section for clamping.

Adjustable hand levers are intended for repeated, tool-free clamping. Under the designation HSK.P, these are available separately for individual use and in other designs. Compared with the tool-operated hex socket cap screw, the clamping force achievable with an adjustable hand lever is lower due to the shorter lever length.

RoHS-compliant product

elesa
Original design TCC-CR



1B

Clamping point 1	Clamping point 2					Accessories recom. hand lever	
Bore d_1	Bore d_2	Clamping length k	l_1	m	Hex socket cap screws	HSK.P for z lever length l_2	
B 18	B 18	29	65	19,8	M 6-18	44	63
B 30	B 30	45	100,5	34,6	M 8-25	63	78

Screw points z	
2	Hex socket cap screw stainless steel DIN 912-A2-70 and lock nut stainless steel DIN 985-A2, glide coating

Surface o	
2	Polyamide (PA), glass fiber reinforced, Black RAL 9005 matt, temperature resistant up to 100 °C
4	Polyamide (PA), glass fiber reinforced, Gray RAL 7040 matt, temperature resistant up to 100 °C

ORDER KEY **KS.P - d_1 - d_2 - k - z - o**

- Cross clamp
- Clamping point 1
- Clamping point 2
- Clamping length
- Screw points
- Surface

ACCESSORIES

– Adapter bushings **RBS.P** *see page 26*

– Adjustable hand levers **HSK.P** *see page 28*

FSZ.P Flanged clamps, plastic

PRODUCT INFO

Flanged clamps FSZ.P of glass fiber reinforced polyamide have a slitted clamping point.

The flange with two bores serves as an interface or for fastening the clamp to the place of use. The bore at the clamping point is arranged in the plane parallel to the face of the flange. It receives typically available construction tubes with full surface contact over the entire cross-section of the bore.

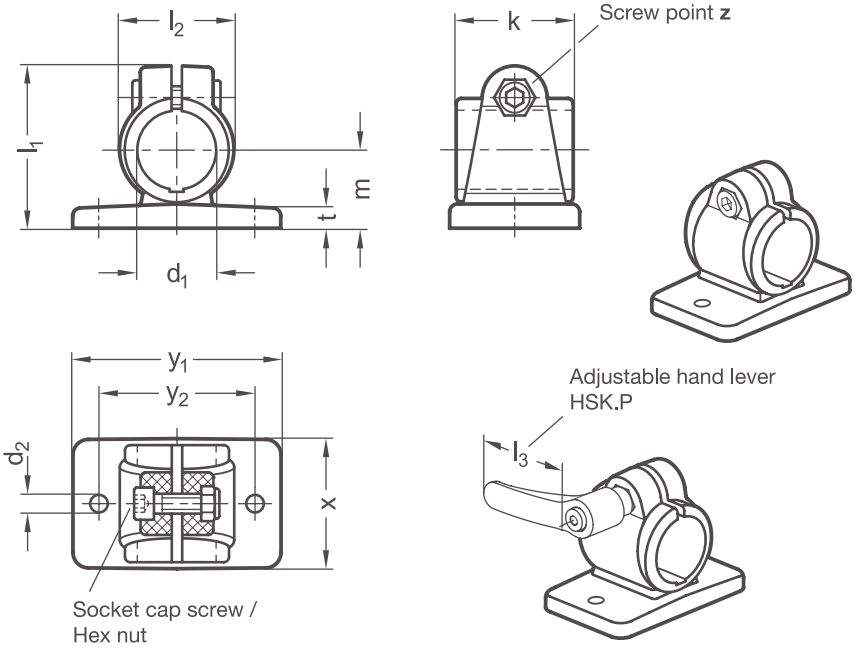
Adapter bushings RBS.P can be used to reduce the bore cross-sections to a smaller diameter.

At the screw point, a hex socket cap screw or an adjustable hand lever reduces the bore cross-section for clamping.

Adjustable hand levers are intended for repeated, tool-free clamping. Under the designation HSK.P, these are available separately for individual use and in other designs. Compared with the tool-operated hex socket cap screw, the clamping force achievable with an adjustable hand lever is lower due to the shorter lever length.

RoHS-compliant product

elesa
Original design TCC-TB



1B

Clamping point Bore d_1	Clamping length k	d_2	l_1	l_2	m	t	x	y_1	y_2	Hex socket cap screws	**Accessories** recom. hand lever HSK.P for z lever length l_3	
B 18	29	5,3	41	29	18	5	34,5	52	40	M 6-18	44	63
B 30	45	6,5	61,5	44	30	8	49,5	80	60	M 8-25	63	78

Screw point z	
2	Hex socket cap screw stainless steel DIN 912-A2-70 and lock nut stainless steel DIN 985-A2, glide coating

Surface o	
2	Polyamide (PA), glass fiber reinforced, Black RAL 9005 matt, temperature resistant up to 100 °C
4	Polyamide (PA), glass fiber reinforced, Gray RAL 7040 matt, temperature resistant up to 100 °C

ORDER KEY **FSZ.P - d_1 - k - z - o**

- Flanged clamp
- Clamping point
- Clamping length
- Screw point
- Surface

ACCESSORIES

– Adapter bushings **RBS.P** *see page 26*

– Adjustable hand levers **HSK.P** *see page 28*

BS.P Base clamps, plastic

PRODUCT INFO

Base clamps BS.P of glass fiber reinforced polyamide have a slitted clamping point.

The base flange with four bores serves as an interface or for fastening the clamp to the place of use.

The bore at the clamping point is arranged perpendicular to the face of the flange. It receives typically available construction tubes with full surface contact over the entire cross-section of the bore.

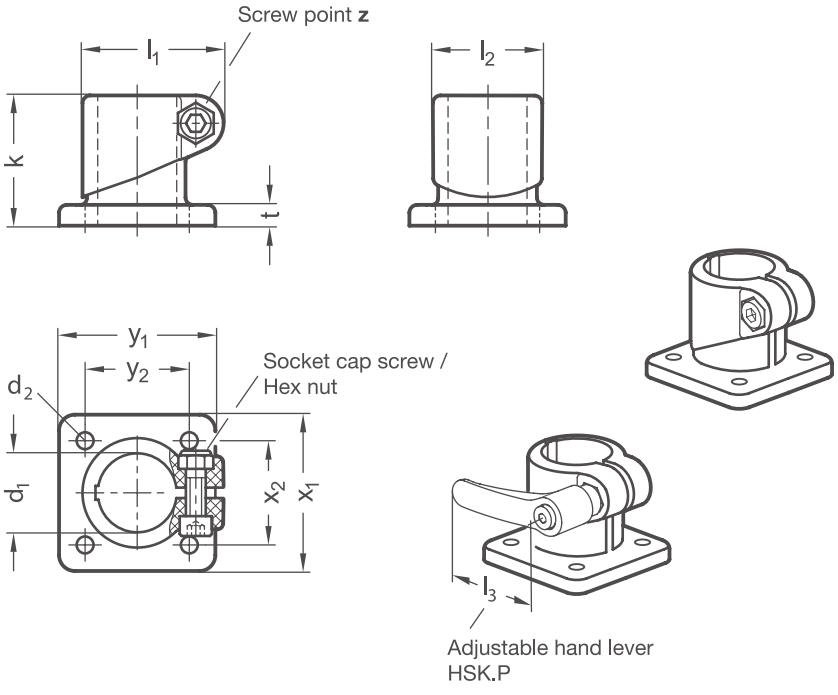
Adapter bushings RBS.P can be used to reduce the bore cross-sections to a smaller diameter.

At the screw point, a hex socket cap screw reduces the bore cross-section for clamping.

Adjustable hand levers are intended for repeated, tool-free clamping. Under the designation HSK.P, these are available separately for individual use and in other designs. Compared with the tool-operated hex socket cap screw, the clamping force achievable with an adjustable hand lever is lower due to the shorter lever length.

RoHS-compliant product

elesa
Original design TCC-AB



1B

Clamping point Bore d_1	Clamping length k	d_2	l_1	l_2	t	x_1	x_2	y_1	y_2	Hex socket cap screws	**Accessories** recom. hand lever HSK.P for z lever length l_3	
B 18	34	5,3	36,5	26	5	45	30	45	30	M 6-18	44	63
B 30	50	6,5	53,5	42	8	60	40	60	40	M 8-25	63	78

Screw point z	
2	Hex socket cap screw stainless steel DIN 912-A2-70 and lock nut stainless steel DIN 985-A2, glide coating

Surface o	
2	Polyamide (PA), glass fiber reinforced, Black RAL 9005 matt, temperature resistant up to 100 °C
4	Polyamide (PA), glass fiber reinforced, Gray RAL 7040 matt, temperature resistant up to 100 °C

ORDER KEY **BS.P - d_1 - k - z - o**

Base clamp
Clamping point
Clamping length
Screw point
Surface

ACCESSORIES

– Adapter bushings **RBS.P** *see page 26*

– Adjustable hand levers **HSK.P** *see page 28*

TS.P T-clamps, plastic

PRODUCT INFO

T-clamps TS.P of glass fiber reinforced polyamide have slitted clamping points.

The bores at the clamping points are situated in a plane and arranged in a T-shape. They receive typically available construction tubes with full surface contact over the entire cross-section of the bore.

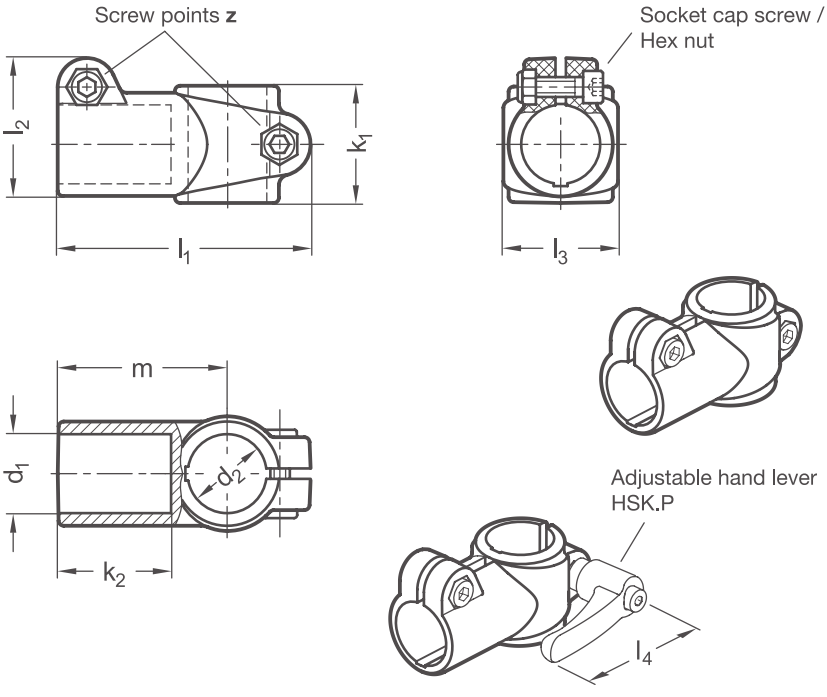
Adapter bushings RBS.P can be used to reduce the bore cross-sections to a smaller diameter.

At the screw points, hex socket cap screws or adjustable hand levers reduce the bore cross-section for clamping.

Adjustable hand levers are intended for repeated, tool-free clamping. Under the designation HSK.P, these are available separately for individual use and in other designs. Compared with the tool-operated hex socket cap screw, the clamping force achievable with an adjustable hand lever is lower due to the shorter lever length.

RoHS-compliant product

elesa
Original design TCC-TS



1B

Clamping point 1 Bore d_1	Clamping point 2 Bore d_2	Clamping length k_1	Clamping length k_2	l_1	l_2	l_3	m	Hex socket cap screws	**Accessories** recom. hand lever HSK.P for z lever length l_4	
B 18	B 18	29	30,5	65	34	29	43,5	M 6-18	44	63
B 30	B 30	45	45,5	96	53	44	64,5	M 8-25	63	78

Screw points z	
2	Hex socket cap screw stainless steel DIN 912-A2-70 and lock nut stainless steel DIN 985-A2, glide coating

Surface o	
2	Polyamide (PA), glass fiber reinforced, Black RAL 9005 matt, temperature resistant up to
4	Polyamide (PA), glass fiber reinforced, Gray RAL 7040 matt, temperature resistant up to

ORDER KEY **TS.P - d_1 - d_2 - k - z - o**

- T-clamp
- Clamping point 1
- Clamping point 2
- Clamping length
- Screw points
- Surface

ACCESSORIES

– Adapter bushings **RBS.P** *see page 26*

– Adjustable hand levers **HSK.P** *see page 28*

MS.P Sleeve clamps, plastic

PRODUCT INFO

Sleeve clamps MS.P of glass fiber reinforced polyamide have slitted clamping points.

The clamping point bores are situated concentrically on an axis. They receive typically available construction tubes with full surface contact over the entire cross-section of the bore.

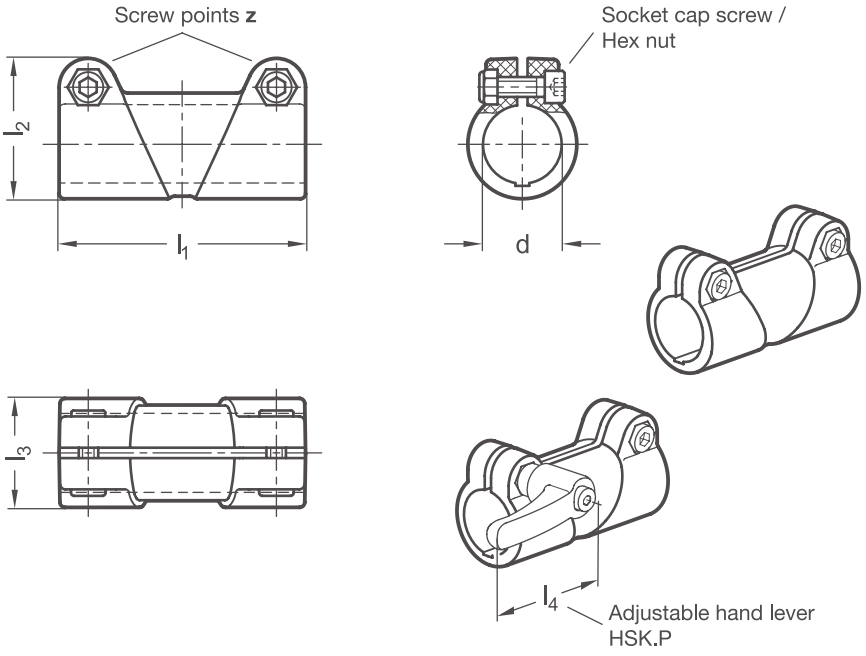
Adapter bushings RBS.P can be used to reduce the bore cross-sections to a smaller diameter.

At the screw points, hex socket cap screws or adjustable hand levers reduce the bore cross-section for clamping.

Adjustable hand levers are intended for repeated, tool-free clamping. Under the designation HSK.P, these are available separately for individual use and in other designs. Compared with the tool-operated hex socket cap screw, the clamping force achievable with an adjustable hand lever is lower due to the shorter lever length.

RoHS-compliant product

elesa
Original design TCC-SL



Clamping point Bore d_1	l_1	l_2	l_3	Hex socket cap screws	**Accessories** recom. hand lever HSK.P for z lever length l_4	
B 18	64,5	35,5	29	M 6-18	44	63
B 30	94,5	53,5	42	M 8-25	63	78

Screw points z	
2	Hex socket cap screw stainless steel DIN 912-A2-70 and lock nut stainless steel DIN 985-A2, glide coating

Surface o	
2	Polyamide (PA), glass fiber reinforced, Black RAL 9005 matt, temperature resistant up to 100 °C
4	Polyamide (PA), glass fiber reinforced, Gray RAL 7040 matt, temperature resistant up to 100 °C

ORDER KEY **MS.P - d_1 - z - o**

Sleeve clamp
Clamping point
Screw points
Surface

ACCESSORIES

– Adapter bushings **RBS.P** *see page 26*

– Adjustable hand levers **HSK.P** *see page 28*

LSF.P Swivel clamps, plastic

PRODUCT INFO

Swivel clamps LSF.P of glass fiber reinforced polyamide have a fastening lug that is either smooth or with outer crown toothing.

The fastening lug is centered and situated at an angle of 90° to the flange face.

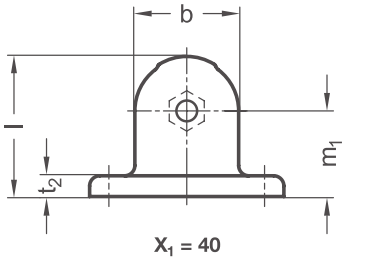
The flange with bores serves as an interface or for fastening the clamp to the place of use.

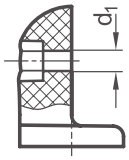
The screw point of the fastening lug receives a hex head or hex socket cap screw or a lock nut for fastening any additional parts.

By combining swivel clamps that have identical fastening lugs and corresponding centering ring toothing, it is possible to assemble any type of joint clamp.

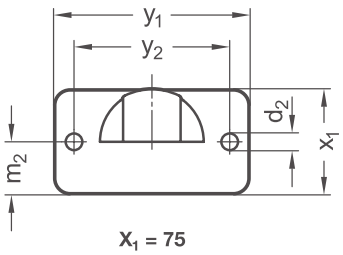
RoHS-compliant product

elesa
Original design TCC-PB / TCC-PBF

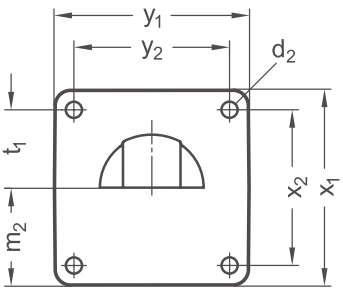




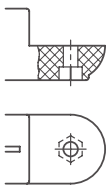
$X_1 = 40$



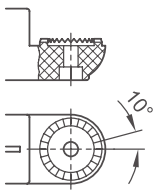
$X_1 = 75$

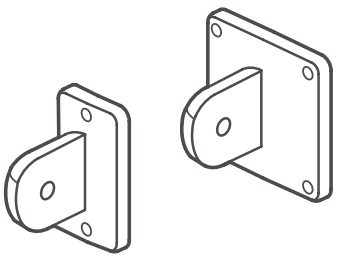


Type **OZ**



Type **AV**





1B

Lug width **b**	x_1	d_1	d_2	Length **l**	m_1	m_2	t_1	t_2	s	x_2	y_1	y_2
40	40	8,5	6,5	54	33	20	-	8	13,5	-	75	60
40	75	8,5	6,5	54	33	37,5	30	8	13,5	60	75	60

Type **t**	
OZ	Without centering step (smooth)
AV	With external serration

Surface **o**	
2	Polyamide (PA), glass fiber reinforced, Black RAL 9005 matt, temperature resistant up to 100 °C
4	Polyamide (PA), glass fiber reinforced, Gray RAL 7040 matt, temperature resistant up to 100 °C

ORDER KEY **LSF.P - b - x_1 - t - o**

Swivel clamp
Lug width
Height
Type
Surface

LST.P Swivel clamps, plastic

elesa
Original design TCC-AP

PRODUCT INFO

Swivel clamps LST.P of glass fiber reinforced polyamide have a slitted clamping point. The fastening lug is smooth, has a centering ring or has crown serration that may be countersunk or raised.

The fastening lug is centered and forms a T-shape relative to the axis of the bore, which receives typically available construction tubes with full contact over the entire cross-section.

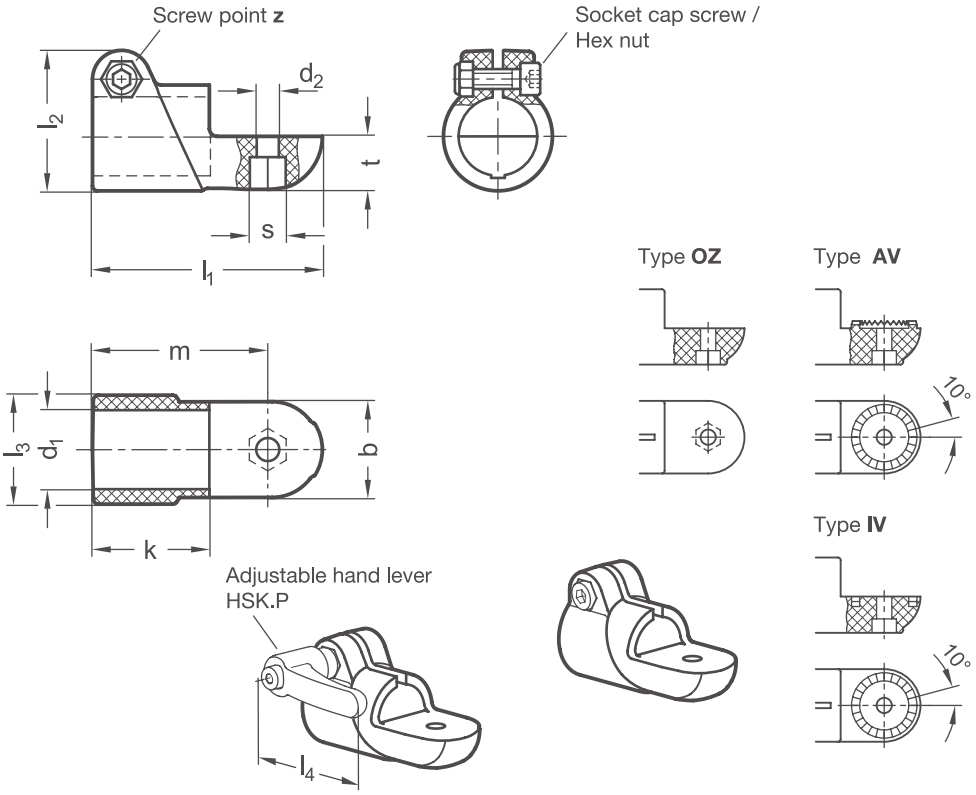
Adapter bushings RBS.P can be used to reduce the bore cross-sections to a smaller diameter.

The screw point of the fastening lug receives a hex head or hex socket cap screw or a lock nut for fastening any additional parts. At the clamping point, a hex socket cap screw or an adjustable hand lever reduces the bore cross-section for clamping.

By combining swivel clamps that have identical fastening lugs and corresponding centering ring serration, it is possible to assemble any type of joint clamp.

Adjustable hand levers are intended for repeated, tool-free clamping. Under the designation HSK.P, these are available separately for individual use and in other designs. Compared with the tool-operated hex socket cap screw, the clamping force achievable with an adjustable hand lever is lower due to the shorter lever length.

RoHS-compliant product



Clamping point Bore d_1	Lug width b	d_2	k	l_1	l_2	l_3	m	s	t	Hex socket cap screws	Accessories recom. hand lever HSK.P for z lever length l_4	
B 30	40	8,5	45	88,5	54	42	67,5	13,5	20	M 8-25	63	78

Type
t

OZ	Without centering step (smooth)
AV	With external serration
IV	With internal serration

Screw point
z

2	Hex socket cap screw stainless steel DIN 912-A2-70 and lock nut stainless steel DIN 985-A2, glide coating

Surface
o

2	Polyamide (PA), glass fiber reinforced, Black RAL 9005 matt, temperature resistant up to 100 °C
4	Polyamide (PA), glass fiber reinforced, Gray RAL 7040 matt, temperature resistant up to 100 °C

ORDER KEY **LST.P - d_1 - t - z - o**

Swivel clamp
Clamping point
Type
Screw point
Surface

ACCESSORIES

– Adapter bushings **RBS.P** *see page 26*

– Adjustable hand levers **HSK.P** *see page 28*

LSQ.P Swivel clamps, plastic

PRODUCT INFO

Swivel clamps LSQ.P of glass fiber reinforced polyamide have a slitted clamping point. The fastening lug is smooth or has a crown serration that may be countersunk or raised.

The fastening lug is centered and perpendicular to the axis of the bore, which receives typically available construction tubes with full contact over the entire cross-section.

Adapter bushings RBS.P can be used to reduce the bore cross-sections to a smaller diameter.

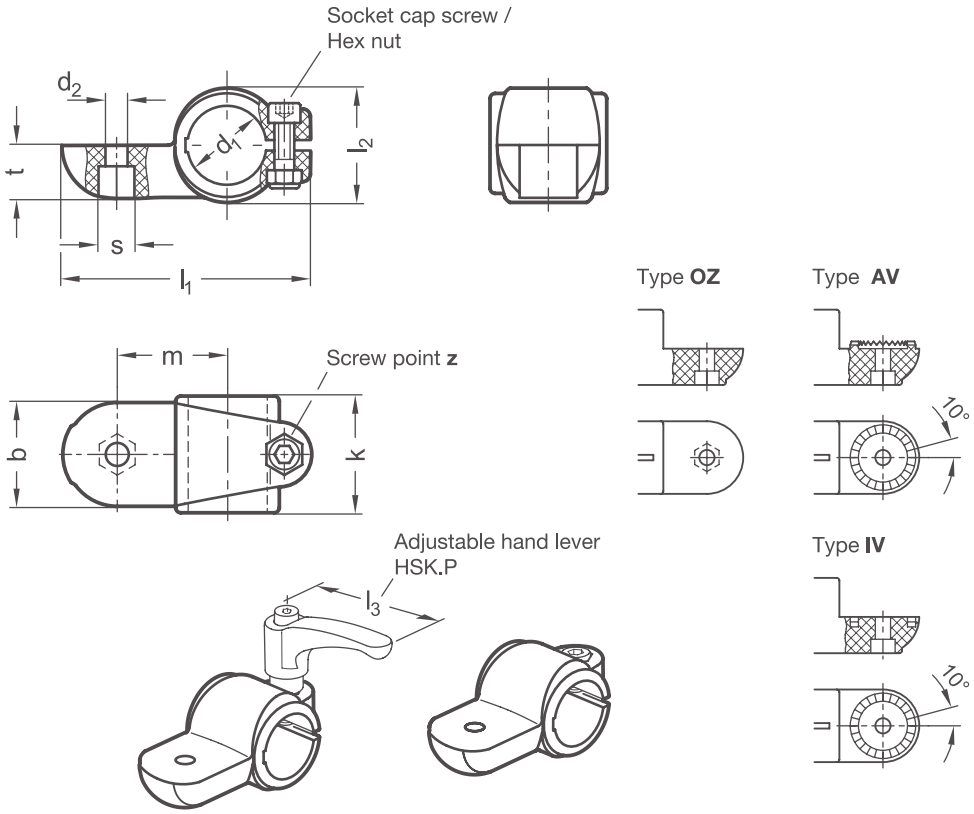
The screw point of the fastening lug receives a hex head or hex socket cap screw or a lock nut for fastening any additional parts. At the clamping point, a hex socket cap screw or an adjustable hand lever reduces the bore cross-section for clamping.

By combining swivel clamps that have identical fastening lugs and corresponding centering ring serration, it is possible to assemble any type of joint clamp.

Adjustable hand levers are intended for repeated, tool-free clamping. Under the designation HSK.P, these are available separately for individual use and in other designs. Compared with the tool-operated hex socket cap screw, the clamping force achievable with an adjustable hand lever is lower due to the shorter lever length.

RoHS-compliant product

elesa
Original design TCC-TP



Clamping point Bore d_1	Lug width b	d_2	k	l_1	l_2	m	s	t	Hex socket cap screws	**Accessories** recom. hand lever HSK.P for z lever length l_3	
B 30	40	8,5	44,5	95	44	42	13,5	20	M 8-25	63	78

Type
t

OZ	Without centering step (smooth)
AV	With external serration
IV	With internal serration

Screw point
z

2	Hex socket cap screw stainless steel DIN 912-A2-70 and lock nut stainless steel DIN 985-A2, glide coating

Surface
o

2	Polyamide (PA), glass fiber reinforced, Black RAL 9005 matt, temperature resistant up to 100 °C
4	Polyamide (PA), glass fiber reinforced, Gray RAL 7040 matt, temperature resistant up to 100 °C

ORDER KEY **LSQ.P - d_1 - t - z - o**

Swivel clamp
Clamping point
Type
Screw point
Surface

ACCESSORIES

– Adapter bushings **RBS.P** *see page 26*

– Adjustable hand levers **HSK.P** *see page 28*

GSF.P Joint clamps, plastic

PRODUCT INFO

Joint clamps GSF.P of glass fiber reinforced polyamide have a slitted clamping point. They are comprised of swivel clamps LSF.P and LST.P.

The clamping point bore is centered in the plane and can be rotated by ± 90° perpendicular to the flange face. It receives typically available construction tubes with full surface contact over the entire cross-section of the bore.

Adapter bushings RBS.P can be used to reduce the bore cross-sections to a smaller diameter.

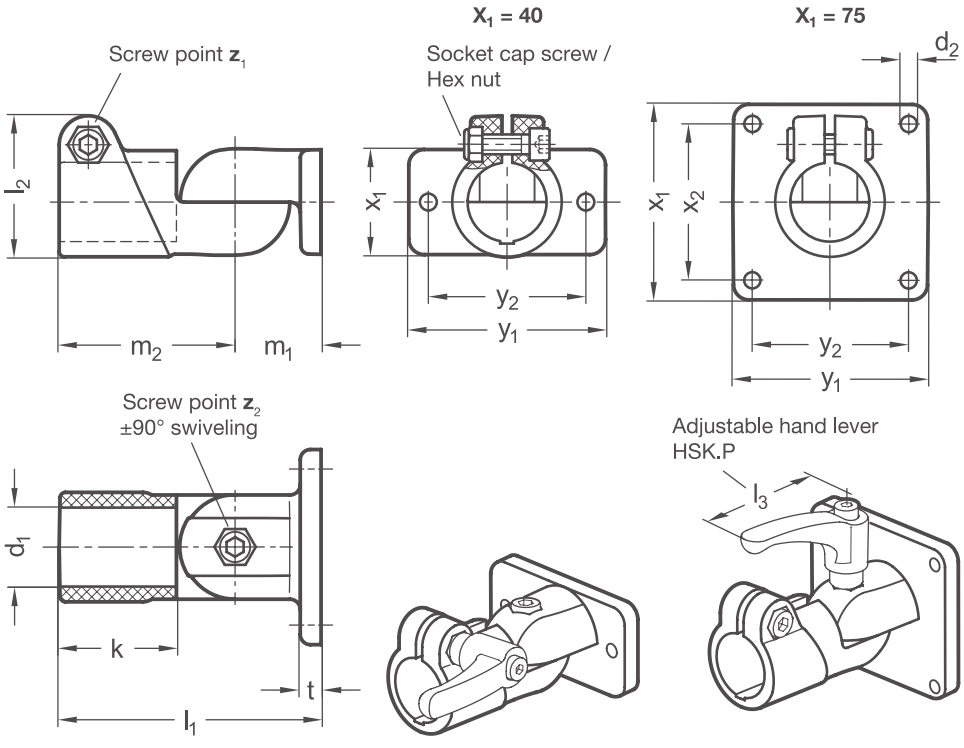
At the screw point, a hex socket cap screw reduces the bore cross-section for clamping. A hex socket cap screw or an adjustable hand lever at the clamping joint serves for locking the joint axis. The clamping joint can be adjusted either steplessly or based on the serration pattern.

The flange with four or two bores serves as an interface or for fastening the clamp to the place of use.

Adjustable hand levers are intended for repeated, tool-free clamping. Under the designation HSK.P, these are available separately for individual use and in other designs. Compared with the tool-operated hex socket cap screw, the clamping force achievable with an adjustable hand lever is lower due to the shorter lever length.

RoHS-compliant product

elesa
Original design TCC-AP-PBF / -PB



Clamping point / Bore d_1	x_1	d_2	k	l_1	l_2	m_1	m_2	t	x_2	y_1	y_2	Hex socket cap screws z_1	Hex socket cap screws z_2	**Accessories** recom. hand lever HSK.P for z_1 / z_2 lever length l_3	
B 30	40	6,5	45	100	54	33	67	8	-	75	60	M 8-25	M 8-25	63	78
B 30	75	6,5	45	100	54	33	67	8	60	75	60	M 8-25	M 8-25	63	78

Type
t

S	Stepless adjustment
T	Adjustment with 10° division (serration)

Screw points
z

2	Hex socket cap screw stainless steel DIN 912-A2-70 and lock nut stainless steel DIN 985-A2, glide coating

Surface
o

2	Polyamide (PA), glass fiber reinforced, Black RAL 9005 matt, temperature resistant up to 100 °C
4	Polyamide (PA), glass fiber reinforced, Gray RAL 7040 matt, temperature resistant up to 100 °C

ORDER KEY

GSF.P - d_1 - x_1 - t - z - o

- Joint clamp
- Clamping point
- Height
- Type
- Screw points
- Surface

ACCESSORIES

– Adapter bushings **RBS.P** *see page 26*

– Adjustable hand levers **HSK.P** *see page 28*

GSFQ.P Joint clamps, plastic

PRODUCT INFO

Joint clamps GSFQ.P of glass fiber reinforced polyamide have a slitted clamping point. They are comprised of swivel clamps LSF.P and LSQ.P.

The clamping point bore is centered in the plane and and parallel to the flange surface so that it can be swiveled by ± 90°. It receives typically available construction tubes with full surface contact over the entire cross-section of the bore.

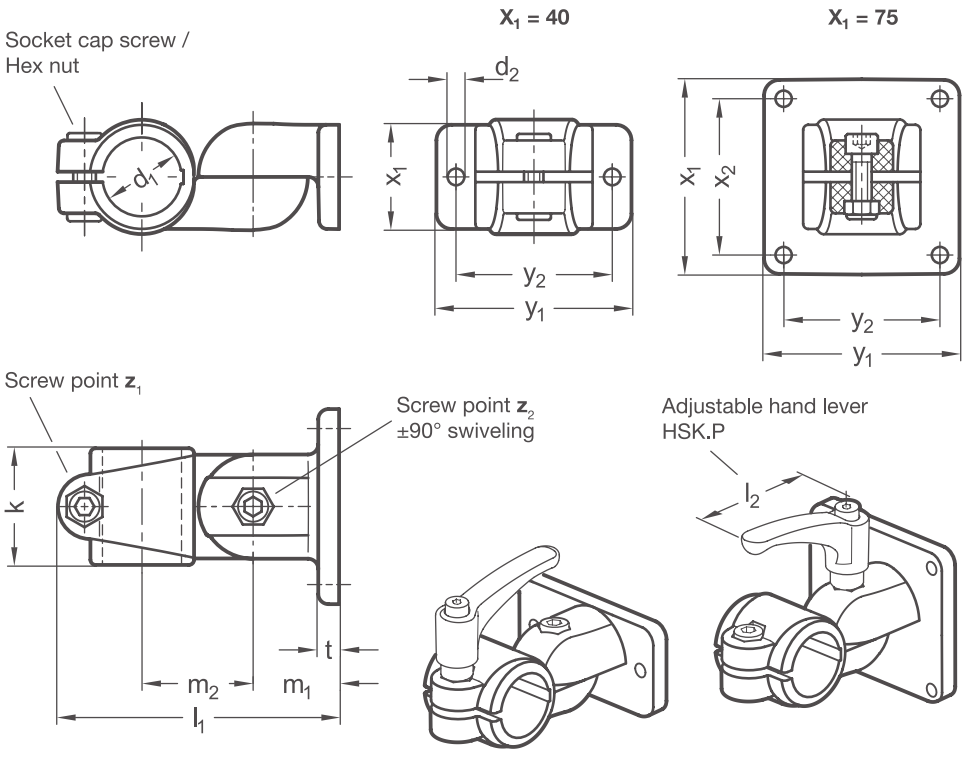
Adapter bushings RBS.P can be used to reduce the bore cross-sections to a smaller diameter.

At the screw point, a hex socket cap screw or an adjustable hand lever reduces the bore cross-section for clamping. A hex socket cap screw or an adjustable hand lever at the clamping joint serves for locking the joint axis. The clamping joint can be adjusted either steplessly or based on the serration pattern. The flange with four or two bores serves as an interface or for fastening the clamp to the place of use.

Adjustable hand levers are intended for repeated, tool-free clamping. Under the designation HSK.P, these are available separately for individual use and in other designs. Compared with the tool-operated hex socket cap screw, the clamping force achievable with an adjustable hand lever is lower due to the shorter lever length.

RoHS-compliant product

elesa
Original design TCC-TP-PBF / -PB



1B

Clamping point Bore d_1	x_1	d_2	k	l_1	m_1	m_2	t	x_2	y_1	y_2	Hex socket cap screws z_1	Hex socket cap screws z_2	**Accessories** recom. hand lever HSK.P for z_1 / z_2 lever length l_2	
B 30	40	6,5	44,5	106	33	42	8	-	75	60	M 8-25	M 8-25	63	78
B 30	75	6,5	44,5	106	33	42	8	60	75	60	M 8-25	M 8-25	63	78

Type
t

S	Stepless adjustment
T	Adjustment with 10° division (serration)

Screw points
z

2	Hex socket cap screw stainless steel DIN 912-A2-70 and lock nut stainless steel DIN 985-A2, glide coating

Surface
o

2	Polyamide (PA), glass fiber reinforced, Black RAL 9005 matt, temperature resistant up to 100 °C
4	Polyamide (PA), glass fiber reinforced, Gray RAL 7040 matt, temperature resistant up to 100 °C

ORDER KEY

GSFQ.P - d_1 - x_1 - t - z - o

- Joint clamp
- Clamping point
- Height
- Type
- Screw points
- Surface

ACCESSORIES

– Adapter bushings **RBS.P** *see page 26*

– Adjustable hand levers **HSK.P** *see page 28*

GST.P Joint clamps, plastic

elesa
Original design TCC-AP-AP

PRODUCT INFO

Joint clamps GST.P of glass fiber reinforced polyamide have slitted clamping points machined by cutting methods. They are comprised of two swivel clamps LST.P.

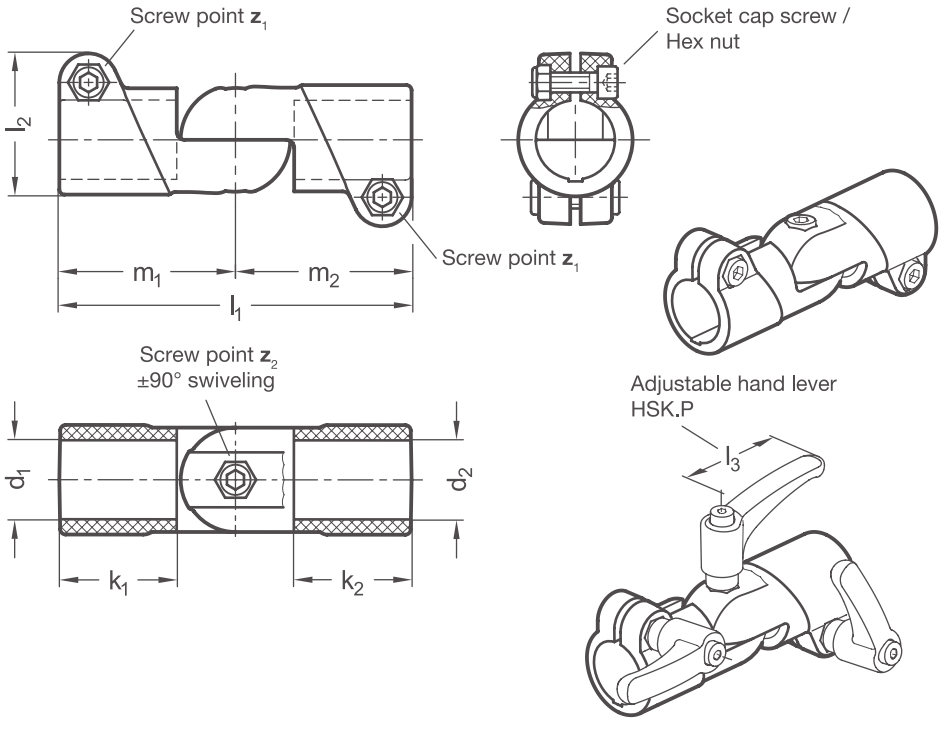
The clamping point bores are situated in a plane and are connected by the clamping joint to swivel by ± 90°, from aligned orientation to perpendicular. They receive typically available construction tubes with full surface contact over the entire cross-section of the bore.

Adapter bushings RBS.P can be used to reduce the bore cross-sections to a smaller diameter.

At the screw points, hex socket cap screws or adjustable hand levers reduce the bore cross-section for clamping. A hex socket cap screw or an adjustable hand lever at the clamping joint serves for locking the joint axis. The clamping joint can be adjusted either steplessly or based on the serration pattern.

Adjustable hand levers are intended for repeated, tool-free clamping. Under the designation HSK.P, these are available separately for individual use and in other designs. Compared with the tool-operated hex socket cap screw, the clamping force achievable with an adjustable hand lever is lower due to the shorter lever length.

RoHS-compliant product



1B

Clamping point 1	Clamping point 2									Accessories recom. hand lever	
Bore d_1	Bore d_2	k_1	k_2	l_1	l_2	m_1	m_2	Hex socket cap screws z_1	Hex socket cap screws z_2	HSK.P for z_1 / z_2 lever length l_3	
B 30	B 30	45	45	134	54	67	67	M 8-25	M 8-25	63	78

Type
t

S	Stepless adjustment
T	Adjustment with 10° division (serration)

Screw points
z

2	Hex socket cap screw stainless steel DIN 912-A2-70 and lock nut stainless steel DIN 985-A2, glide coating

Surface
o

2	Polyamide (PA), glass fiber reinforced, Black RAL 9005 matt, temperature resistant up to 100 °C
4	Polyamide (PA), glass fiber reinforced, Gray RAL 7040 matt, temperature resistant up to 100 °C

ORDER KEY

GST.P - d_1 - d_2 - t - z - o

- Joint clamp
- Clamping point 1
- Clamping point 2
- Type
- Screw points
- Surface

ACCESSORIES

– Adapter bushings **RBS.P** *see page 26*

– Adjustable hand levers **HSK.P** *see page 28*

GSQ.P Joint clamps, plastic

PRODUCT INFO

Joint clamps GSQ.P of glass fiber reinforced polyamide have a slitted clamping point. They are comprised of swivel clamps LST.P and LSQ.P.

The clamping point bores are situated in a plane and are connected by the clamping joint to swivel by ± 90°, from perpendicular to parallel. They receive typically available construction tubes with full surface contact over the entire cross-section of the bore.

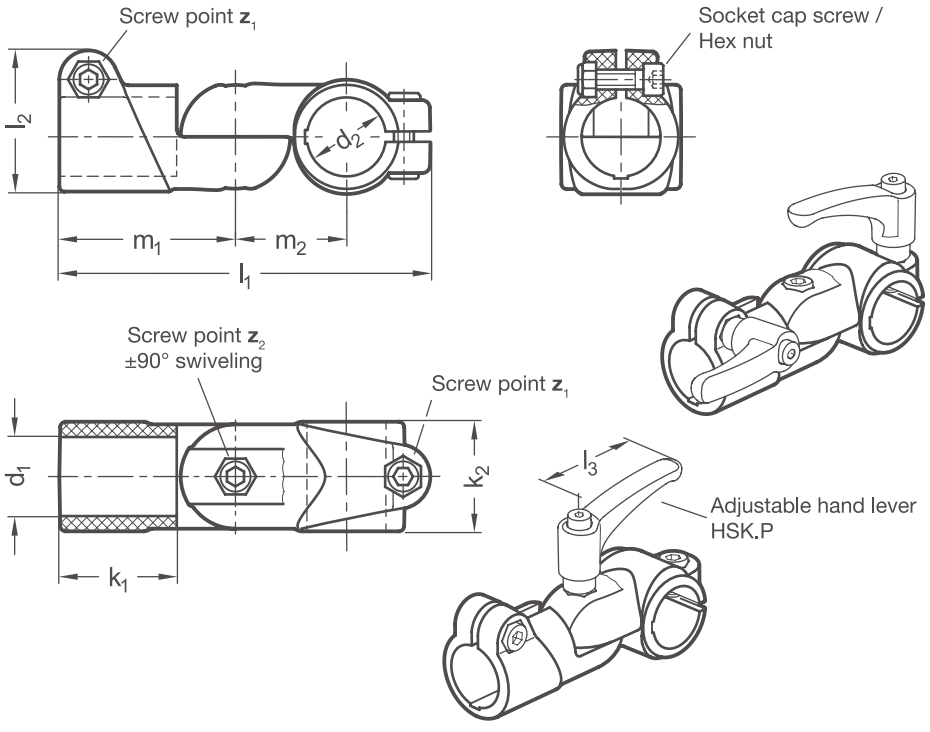
Adapter bushings RBS.P can be used to reduce the bore cross-sections to a smaller diameter.

At the screw points, hex socket cap screws or adjustable hand levers reduce the bore cross-section for clamping. A hex socket cap screw or an adjustable hand lever at the clamping joint serves for locking the joint axis. The clamping joint can be adjusted either steplessly or based on the serration pattern.

Adjustable hand levers are intended for repeated, tool-free clamping. Under the designation HSK.P, these are available separately for individual use and in other designs. Compared with the tool-operated hex socket cap screw, the clamping force achievable with an adjustable hand lever is lower due to the shorter lever length.

RoHS-compliant product

elesa
Original design TCC-AP-TP



1B

Clamping point 1	Clamping point 2									Accessories recom. hand lever	
Bore d_1	Bore d_2	k_1	k_2	l_1	l_2	m_1	m_2	Hex socket cap screws z_1	Hex socket cap screws z_2	HSK.P for z_1 / z_2 lever length l_3	
B 30	B 30	45	44,5	142	54	67	42	M 8-25	M 8-25	63	78

Type
t

S	Stepless adjustment
T	Adjustment with 10° division (serration)

Screw points
z

2	Hex socket cap screw stainless steel DIN 912-A2-70 and lock nut stainless steel DIN 985-A2, glide coating

Surface
o

2	Polyamide (PA), glass fiber reinforced, Black RAL 9005 matt, temperature resistant up to 100 °C
4	Polyamide (PA), glass fiber reinforced, Gray RAL 7040 matt, temperature resistant up to 100 °C

ORDER KEY

GSQ.P - d_1 - d_2 - t - z - o

- Joint clamp
- Clamping point 1
- Clamping point 2
- Type
- Screw points
- Surface

ACCESSORIES

– Adapter bushings **RBS.P** *see page 26*

– Adjustable hand levers **HSK.P** *see page 28*

RBS.P Adapter bushings for plastic tube clamps

PRODUCT INFO

Adapter bushings RBS.P are made of glass fiber reinforced polyamide.

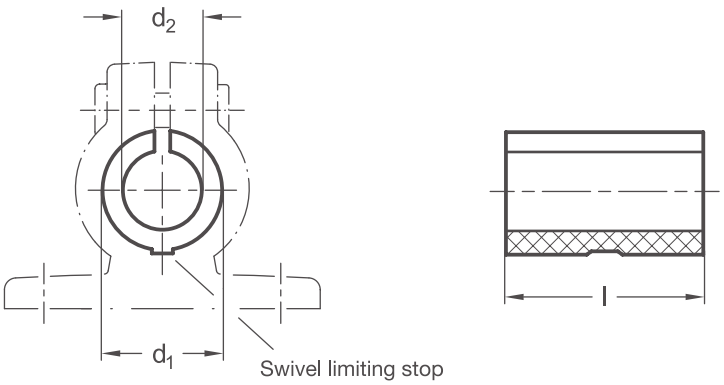
The adapter bushings can be used to reduce the bore diameters of plastic tube clamps for clamping smaller diameters.

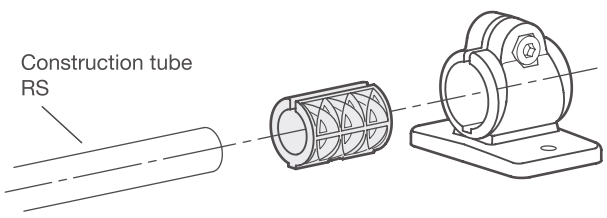
Due to the affixed swivel limiting stop, the adapter bushing cannot rotate or slide inside the tube clamp.

RoHS-compliant product

1D

elesa
Original design TCC-A





Bore of the clamp d_1	Bore d_2				Length l
18	B 12	B 14	B 15	B 16	29
30	B 20	B 25	-	-	45

Surface o	
2	Polyamide (PA), glass fiber reinforced, Black RAL 9005 matt, temperature resistant up to 100 °C
4	Polyamide (PA), glass fiber reinforced, Gray RAL 7040 matt, temperature resistant up to 100 °C

ORDER KEY **RBS.P - d_1 - d_2 - l - o**

Adapter bushing
Bore of the clamp
Bore
Length
Surface

HSK.P Adjustable hand levers for plastic tube clamps

PRODUCT INFO

Adjustable hand levers HSK.P are made of glass fiber reinforced polyamide. The screw inserts installed here are made of turned stainless steel and have a rolled thread.

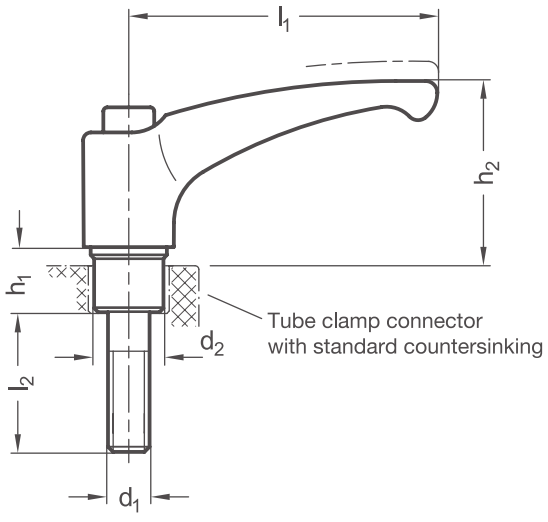
Adjustable hand levers HSK.P are specially designed as accessories for use at the screw points of plastic tube clamps. They replace the hex socket cap screws DIN 912 and are used where repeated tool-free clamping is required.

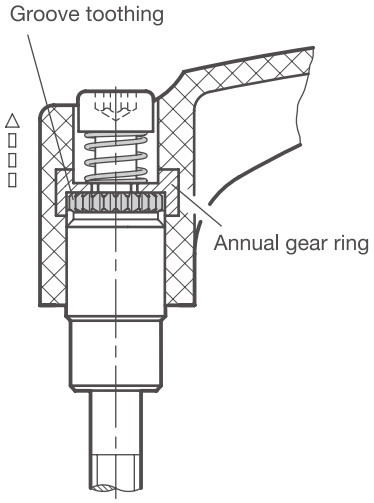
The threaded insert is connected to the handle by groove toothing such that it can be disengaged. Lifting the lever releases the engagement, and the hand lever can be swiveled to a favorable position.

The clamping force achievable with an adjustable hand lever is lower than with tool-operated hex socket cap screws due to the shorter lever length.

The tables for the respective clamps contain the appropriate hand lever sizes for each thread dimension.

RoHS-compliant product



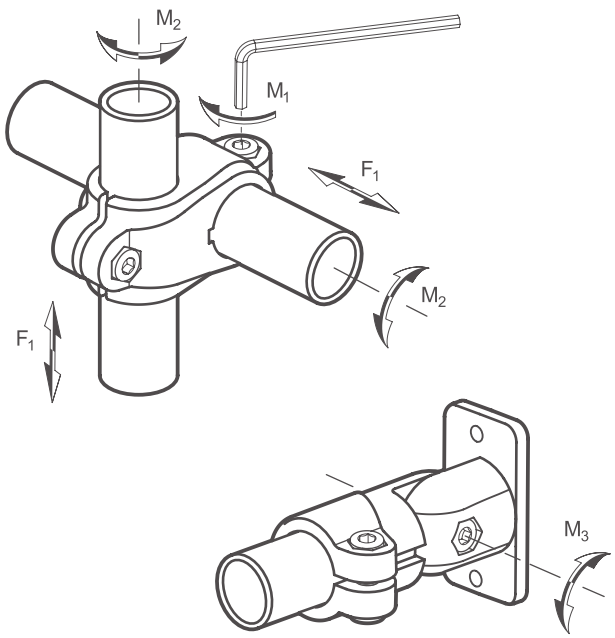


l_1	d_1	l_2	d_2	h_1	$h_2 \approx$
44	M 6	20	10	8,5	32
63	M 6	20	10	9	40
63	M 8	25	13	13,5	44
78	M 8	25	13	14,5	52

Surface **o**	
2	Polyamide (PA), glass fiber reinforced, Black-gray RAL 7021 matt, temperature resistant up to 130 °C / threaded insert stainless steel AISI 303 (A1)

ORDER KEY **HSK.P - l_1 - d_1 - l_2 - o**

Adjustable hand lever
Handle
Thread diameter
Thread length
Surface



The load values of the plastic tube clamps are listed in the tables below.

If the bore diameters of the tube clamp are reduced with adapter bushings RBS.P, this has an influence on the displacement force and the twisting moment.

For joint clamps, the maximum torque of the joint axis is also indicated.

The values were determined using tubes with a tolerance of ± 0.2 mm.

NOTE

The load values given are non-binding guide values to the exclusion of any liability. In general, they do not constitute a commitment to quality.

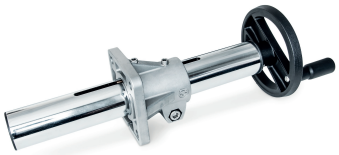
The user must determine whether a product is suitable for the intended use in each individual case. Environmental influences and aging may affect the specified values.

Standard	Bore of the tube clamp	Order key Adapter bushing used	Screw point tightening torque M_1 in Nm	Displacement force F_1 in N	Twisting moment M_2 in Nm
KS.P *p. 2*	B12	RBS.P-18-B12-29-*	5	1250	5
	B14	RBS.P-18-B14-29-*	5	1650	10
	B15	RBS.P-18-B15-29-*	5	1650	14
	B16	RBS.P-18-B16-29-*	5	2000	14
	B18	-	5	2150	17
	B20	RBS.P-30-B20-45-*	12	1000	5
	B25	RBS.P-30-B25-45-*	12	1300	7
	B30	-	12	1350	21
FSZ.P *p. 4*	B12	RBS.P-18-B12-29-*	5	900	5
	B14	RBS.P-18-B14-29-*	5	1050	8
	B15	RBS.P-18-B15-29-*	5	1100	13
	B16	RBS.P-18-B16-29-*	5	1200	14
	B18	-	5	1450	16
	B20	RBS.P-30-B20-45-*	12	1150	7
	B25	RBS.P-30-B25-45-*	12	1600	7
	B30	-	12	1800	27
BS.P *p. 6*	B12	RBS.P-18-B12-29-*	5	900	5
	B14	RBS.P-18-B14-29-*	5	1000	7
	B15	RBS.P-18-B15-29-*	5	1000	7
	B16	RBS.P-18-B16-29-*	5	1050	7
	B18	-	5	1050	8
	B20	RBS.P-30-B20-45-*	12	1000	8
	B25	RBS.P-30-B25-45-*	12	1350	11
	B30	-	12	1650	33

Standard	Bore of the tube clamp	Order key Adapter bushing used	Screw point tightening torque M_1 in Nm	Displacement force F_1 in N	Twisting moment M_2 in Nm
TS.P *p. 8*	B12	RBS.P-18-B12-29-*	5	900	5
	B14	RBS.P-18-B14-29-*	5	1200	7
	B15	RBS.P-18-B15-29-*	5	1200	11
	B16	RBS.P-18-B16-29-*	5	1250	12
	B18	-	5	1450	14
	B20	RBS.P-30-B20-45-*	12	1000	6
	B25	RBS.P-30-B25-45-*	12	1400	7
	B30	-	12	1650	17
MS.P *p. 10*	B12	RBS.P-18-B12-29-*	5	900	5
	B14	RBS.P-18-B14-29-*	5	1400	7
	B15	RBS.P-18-B15-29-*	5	1400	10
	B16	RBS.P-18-B16-29-*	5	1300	11
	B18	-	5	1100	13
	B20	RBS.P-30-B20-45-*	12	1000	6
	B25	RBS.P-30-B25-45-*	12	1300	7
	B30	-	12	1400	25

Standard	Bore of the tube clamp	Order key Adapter bushing used	Screw point tightening torque M_1 in Nm	Displacement force F_1 in N	Twisting moment M_2 in Nm	Joint axis twisting moment M_3 in Nm	
						Type **S**	Type **T**
LST.P *p. 14*	B20	RBS.P-30-B20-45-*	12	1600	12	-	-
	B25	RBS.P-30-B25-45-*	12	2700	15	-	-
	B30	-	12	3300	33	-	-
LSQ.P *p. 16*	B20	RBS.P-30-B20-45-*	12	1600	12	-	-
	B25	RBS.P-30-B25-45-*	12	2700	15	-	-
	B30	-	12	3000	33	-	-
GSF.P *p. 18*	B20	RBS.P-30-B20-45-*	12	1600	12	6	100
	B25	RBS.P-30-B25-45-*	12	2700	15	6	100
	B30	-	12	3300	33	6	100
GSFQ.P *p. 20*	B20	RBS.P-30-B20-45-*	12	1600	12	4	100
	B25	RBS.P-30-B25-45-*	12	2700	15	4	100
	B30	-	12	3000	33	4	100
GST.P *p. 22*	B20	RBS.P-30-B20-45-*	12	1600	12	6	140
	B25	RBS.P-30-B25-45-*	12	2700	15	6	140
	B30	-	12	3300	33	6	140
GSQ.P *p. 24*	B20	RBS.P-30-B20-45-*	12	1600	12	4	120
	B25	RBS.P-30-B25-45-*	12	2700	15	4	120
	B30	-	12	3000	33	4	120

Innovative assembly components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