



Light load range

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Axially parallel tube connector..... Page 38

Hinge tube connector Page 41

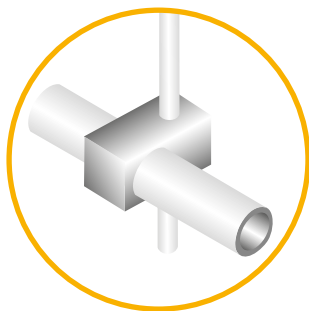
Accessories Page 48

Light Clamps

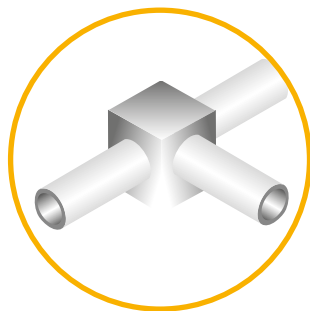


...the constructive plastic element connecting technology

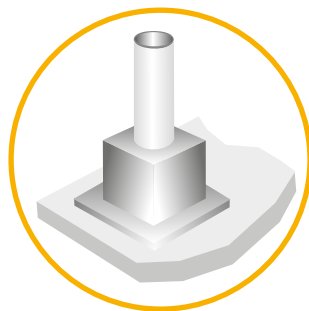
■ Right angle tube connector



Cross clamps

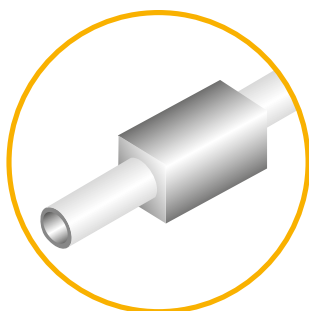


Angle clamps

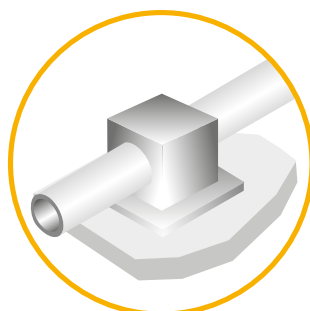


Base clamps

■ Axially parallel tube connector

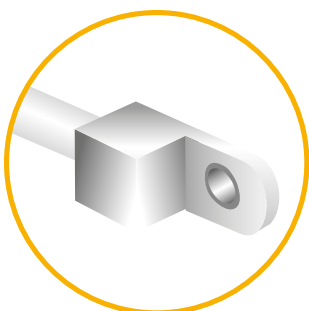


Sleeve clamps

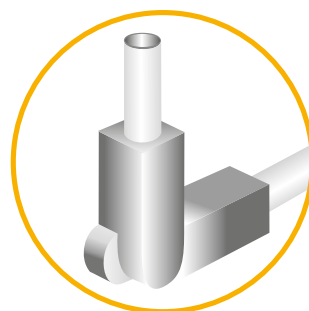


Flange clamps

■ Hinge tube connector



Strap clamps



Hinge clamps

Features:

- Only one element per type (Ø18 / Ø30 / □ 30)
- Elements made of reinforced polyamide
- Closed elements or half cups
- Tube clamping of different diameters or sections due to a special bush system
- Every bush form is worked with the needed tube diameter

- Anti turning device for the bush former due to a lokation pin in the bush
- Attractive design
- Zinc plated screws
- Compatibility to the BLOCAN® profile system

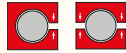
Options:

- Equipped with stainless steel screws for usage in the food industry and the wet areas in the beverage industry

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Right angle tube connector

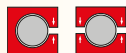
(Single-pcs and multi-pcs elements)



- Cross clamps p. 34
- Angle clamps p. 36
- Base clamps p. 37

Axially parallel tube connector

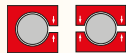
(Single-pcs and multi-pcs elements)



- Sleeve clamps p. 38
- Flange clamps p. 39

Hinge tube connector

(Single-pcs and multi-pcs elements)



- Strap clamps p. 41
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Properties

- Resistance to chemicals p. 46

Accessories

- Reducing bushes Ø p. 48
- Reducing insert □ p. 48
- Clamping lever p. 49
- Screws – Zinc-plated steel p. 49
- Screws – Stainless steel p. 49



Version:

■ Light Clamps



Single-piece elements

✓ For faster and more economic assembly



Multi-piece elements

✓ For add-on assembly and upgrading



Features:

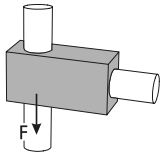
- Resistance against corrosion and aggressive substances
- Low dead load
- Applicable e.g. in the food packaging industry
- Two basic diameters can be flexibly adapted with reducing bushes

delivery
from stock

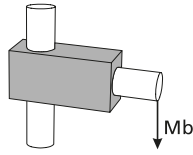
Loads *RK LightClamps*

Attention!

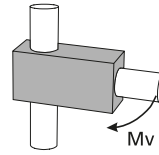
The data in the chart do not ensure a guarantee of quality or a warrant characteristic of our products. These are nonbinding standard values which might be not reached in individual cases due to the temperature or surface finish of the clamping profile.



Adhesion force F [kN]



Bending moment Mb [Nm]



Twisting moment Mv [Nm]

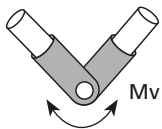
Tightening torque max:

Sizes: 10 – 18: 2,5 Nm

Sizes: 20 – 30: 8,0 Nm

Material data sheet
available upon request.

Sizes Type	□10			Ø12 - 18			□20			Ø20 - 30			□30			Ø30		
	F	Mb	Mv	F	Mb	Mv	F	Mb	Mv	F	Mb	Mv	F	Mb	Mv	F	Mb	Mv
Cross clamps																		
K-KU	0,30	130	15	0,50	111	5	0,50	164	31	1,00	184	11,50						
KV-KU													1,30	122	23	1,60	120,50	19
KVR-KU Insert													1,40	136	23	1,60	142,50	19
KVR-KU Bushes													0,60	134,50	30,50	1,80	107,50	19
Angle clamps																		
W-KU	0,20	91	8	0,60	83	4,50	0,60	153,50	30	1,00	177	10,50						
WV-KU													1,00	136,50	23	1,40	109,50	15,50
Base clamps																		
FS-KU	0,20	36	11	0,40	40	2,50	0,60	158	31	1,10	181,50	13						
FV-KU													1,00	77	23	1,60	72	19,50
Sleeve clamps																		
M-KU	0,10	91	8	0,50	75,50	4	0,70	225,50	31	1,00	242,50	11,50						
Flange clamps																		
FK-KU	0,20	35	7,50	0,40	38,50	4	0,60	134,50	31	1,20	137,50	12,50						
FKV-KU													1,30	144,50	23	1,60	142,50	20,50
V-KU													0,90	-	23	1,20	-	15,50
Strap clamps																		
LP-KU	0,30	16	7,50	0,40	18,50	4,50	0,70	38,50	27	0,90	41,50	11,50						
LPZ-KU	0,40	16	7,50	0,50	18,50	2,50	0,70	43	28	0,90	45,50	12						
LW-KU	0,20	27,50	7,50	0,70	27,50	4	0,80	40,50	31	1,10	41	14						
LF-KU																		



Twisting moment Mv [Nm]

Sizes Type	□10		Ø12 - 18		□20		Ø20 - 30		□30		Ø30	
		Mv		Mv		Mv		Mv		Mv		Mv
Hinge clamps												
GW-KU ohne Verzahnung		1,50		1,70		4,00		4,20				
GWZ-KU mit Verzahnung												
GP-KU ohne Verzahnung		1,10		1,50		2,50		2,10				
GPZ-KU mit Verzahnung												
GF-KU ohne Verzahnung												
GFZ-KU mit Verzahnung		27		23		68		68				

Reducing bushes / -insert size

You can choose the size of the insert you want to introduce into the clamping element between 10 and 25 mm.

The basic size of the round tubular connections is either 18 or 30mm. For any other required diameter the corresponding reducing bush can be delivered.

Should you work with square tubes, which offer a choice between 10 and 20 mm, reducing bushes are a necessity.

Reducing bushes / -insert form

Not only can you choose the diameter of the reducing bush you require, you also have the possibility to choose its form. All you need to do is to choose the tube section you would like to work with.

The following forms are at your disposal:

For round tubes Ø
For square tubes □

Detailed information for the reducing bushes and inserts can be found in the chapter accessories page 48

Order instruction and accessories

The clamping elements are automatically provided with a zinc-plated fixation screw. Also, stainless steel screws and plastic levers can be optionally ordered for the fixation.

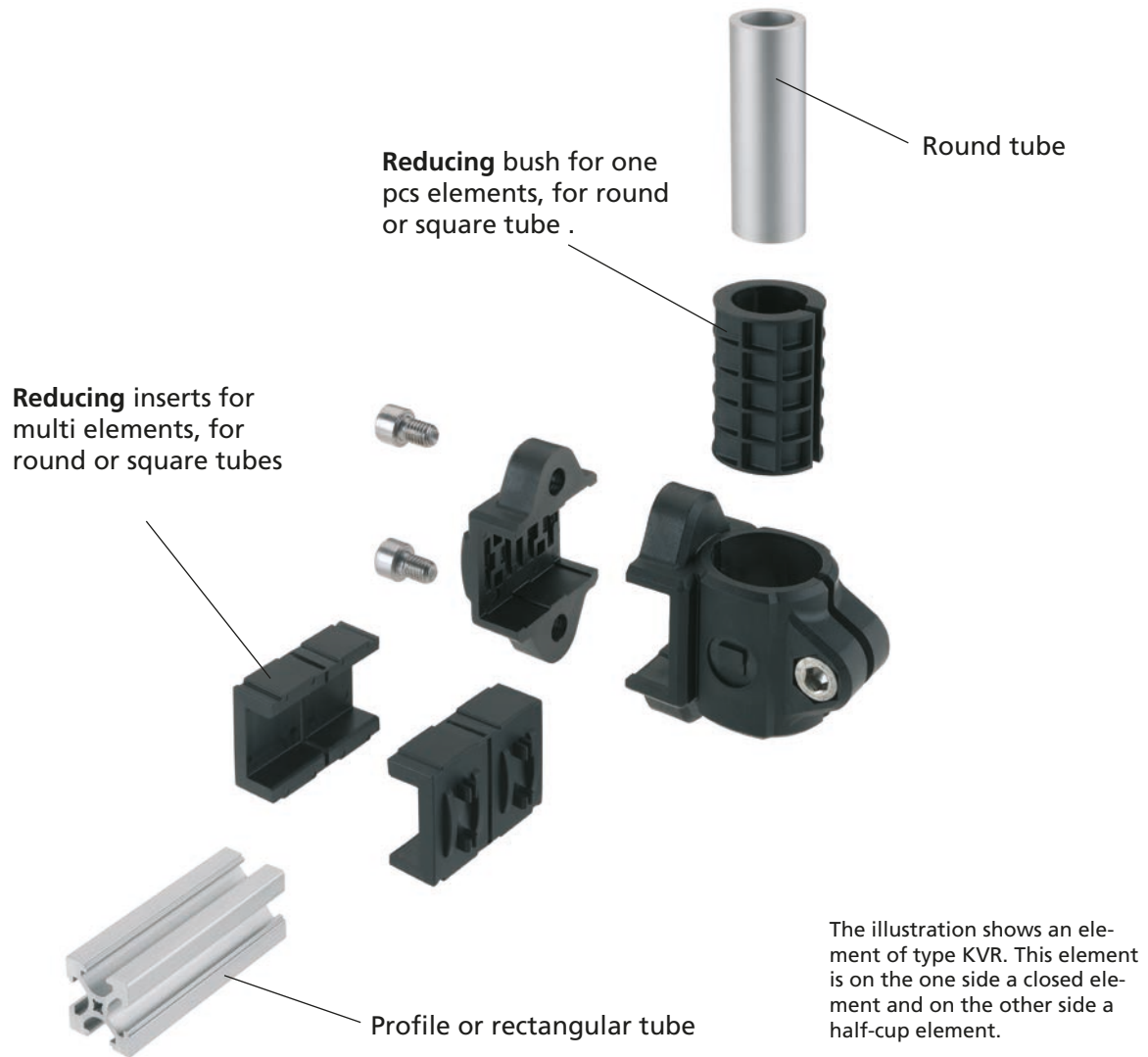
The reducing bushes and -inserts are not included in the standard delivery. They are separately listed in the accessory chapter.

Applications:

- ✓ Areas of the laboratory technology
- ✓ Food industry
- ✓ Wet area in the beverage industry
- ✓ Photo technical applications



The variable reduction sleeve concept :



RK LightClamps – Comprehensive view

Right angle tube connector



Axially parallel tube connector



Hinge tube connector





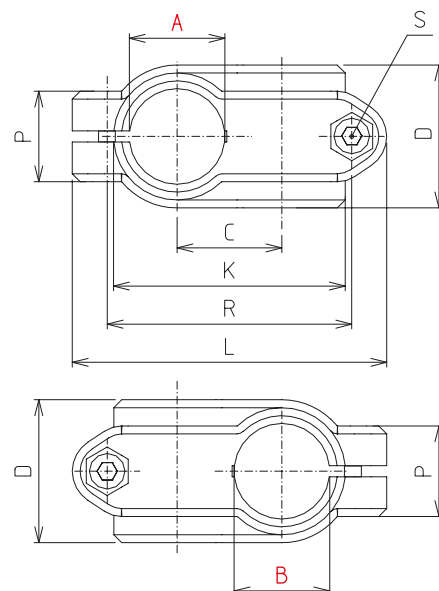
RK LightClamps – Cross clamps

Order instruction:

- Purchase only in lot sizes and a multiple of that, see product table below
- Inserts and bushes for diameter/cross-section changes see accessories page 48
- Standard: equipped and preassembled with galvanised screws
- Clamping levers have to be ordered separately
Delivery unassembled
See table last column and page 49

On request:

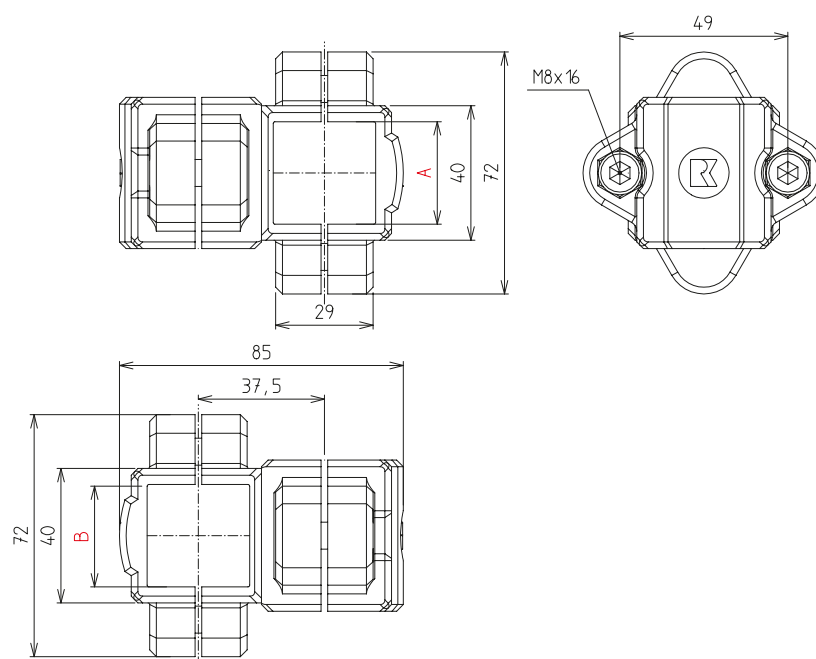
- Stainless screws



Cross clamp K-KU

[mm]

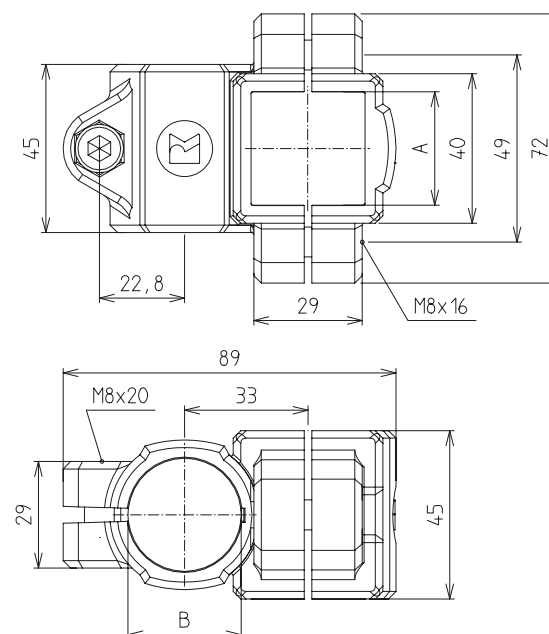
Code No.	Type	lot sizes	Clamping *		C	D	K	L	P	R	Weight m [g]	Clamping lever S Code No.
			A	B								
K00018ACSR18R18	12-18	10, 20, 30... pcs	18		20	30	48	63	21	48	50	93024
K00030ACSR30R30	20-30	5, 10, 15... pcs	30		33	45	72	99	28,5	77	132	902381



Cross clamp KV-KU

Code No.	Type	lot sizes	Clamping *		Weight m [g]	Clamping lever S Code No.
			A	B		
K00530ACSV30V30	20-30	5, 10, 15... pcs	30		171	902381

[mm]



Cross clamp KVR-KU

Code No.	Type	lot sizes	Clamping *		Weight m [g]	Clamping lever S Code No.
			A	B		
K00430ACSR30V30	20-30	5, 10, 15... pcs	30		117	902381

[mm]

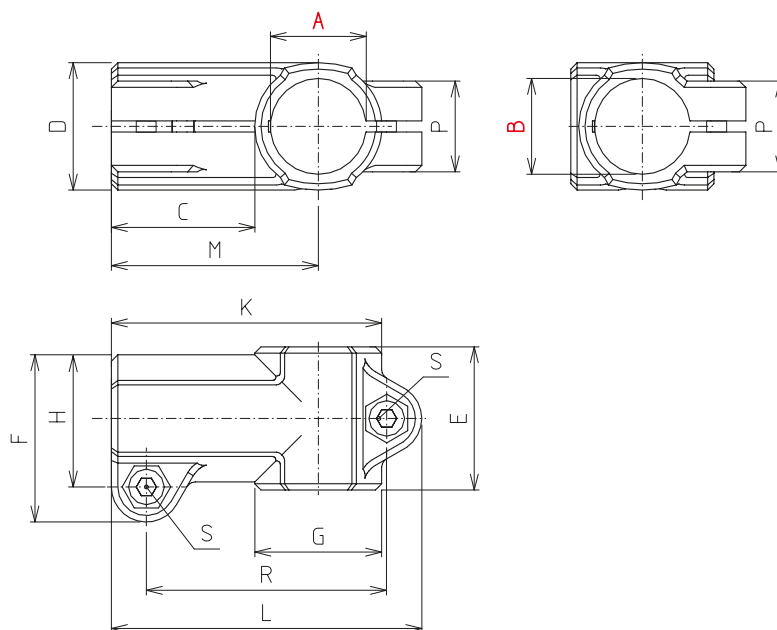
RK LightClamps – Angle-/Base clamps

Order instruction:

- Purchase only in lot sizes and a multiple of that, see product table below
- Inserts and bushes for diameter/cross-section changes see accessories page 48
- Standard: equipped and preassembled with galvanised screws
- Clamping levers have to be ordered separately
Delivery unassembled
See table last column and page 49

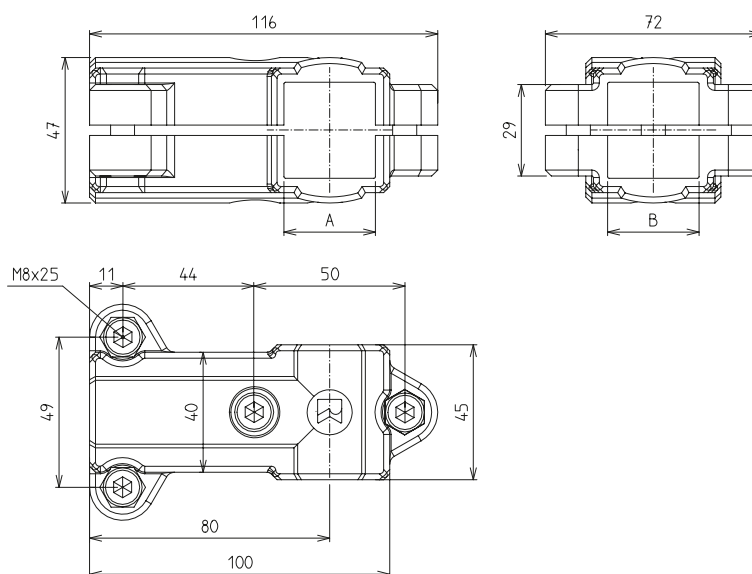
On request:

- Stainless screws



Angle clamps W-KU

Code No.	Type	lot sizes	Clamping*		C	D	E	F	G	H	K	L	M	P	R	Weight m [g]	Clamping lever S Code No.
			A	B													
K10018ACSR18R18	12-18	10, 20, 30... pcs	18		30,5	25	30	34	25	26,5	55,5	64,5	43	21	49,5	44	93024
K10030ACSR30R30	20-30	5, 10, 15... pcs	30		45	40	45	52,5	40	41,5	85	97,5	65	28,5	75,5	115	902381

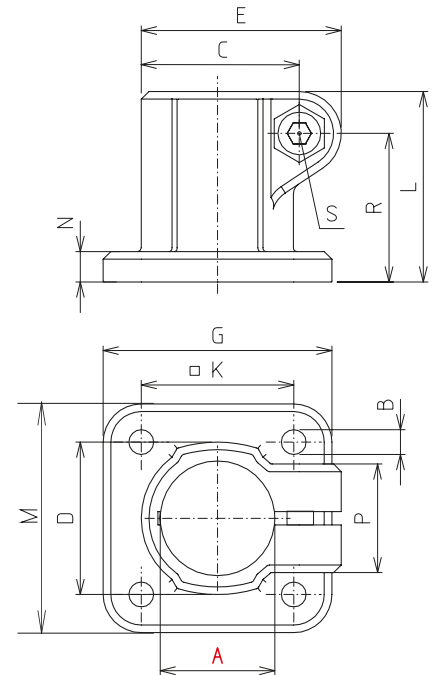


Angle clamps WV-KU

Code No.	Type	lot sizes	Clamping*		Weight m [g]	Clamping lever S Code No.
			A	B		
K10018ACSR18R18	20-30	5, 10, 15... pcs	30		194	902381



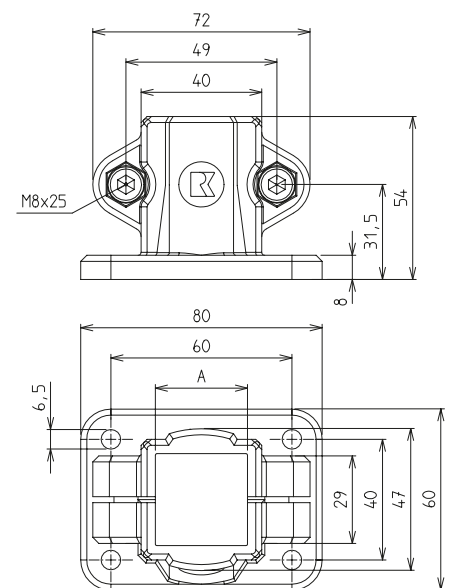
FS-KU 18/2
 * Dimension of K are turned by 90° with a distance of 38-40 mm (slotted hole)



Base clamps FS-KU

Code No.	Type	lot sizes	Clamping* A	B	C	D	E	G	K	L	M	N	P	R	Weight m [g]	Clamping lever S Code No.
K30018ACSR18	12-18	10, 20, 30... pcs	18	5,3	26,5	26	34	45	30	32	45	5	21	24,5	30	93024
K30118ACSR18	18/2	10, 20, 30... pcs	18	5,5	26,5	26	34	30	38	32	50	5	21	18,5	30	93024
K30030ACSR30	20-30	5, 10, 15... pcs	30	6,5	41,5	40	52,5	60	40	50	60	8	28,5	39	75	902381

[mm]



Base clamps FV-KU

Code No.	Type	lot sizes	Clamping * A	Weight m [g]	Clamping lever S Code No.
K30530ACSV30	20-30	5, 10, 15... pcs	30	121	902381

[mm]

* Reduction of the diameter or cross section of the clamping with inserts and bushes possible

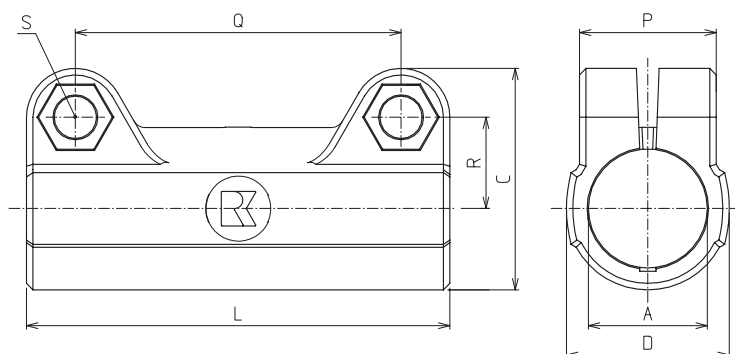
RK LightClamps – Sleeve-/Flange clamps

Order instruction:

- Purchase only in lot sizes and a multiple of that, see product table below
- Inserts and bushes for diameter/cross-section changes see accessories page 48
- Standard: equipped and preassembled with galvanised screws
- Clamping levers have to be ordered separately
Delivery unassembled
See table last column and page 49

On request:

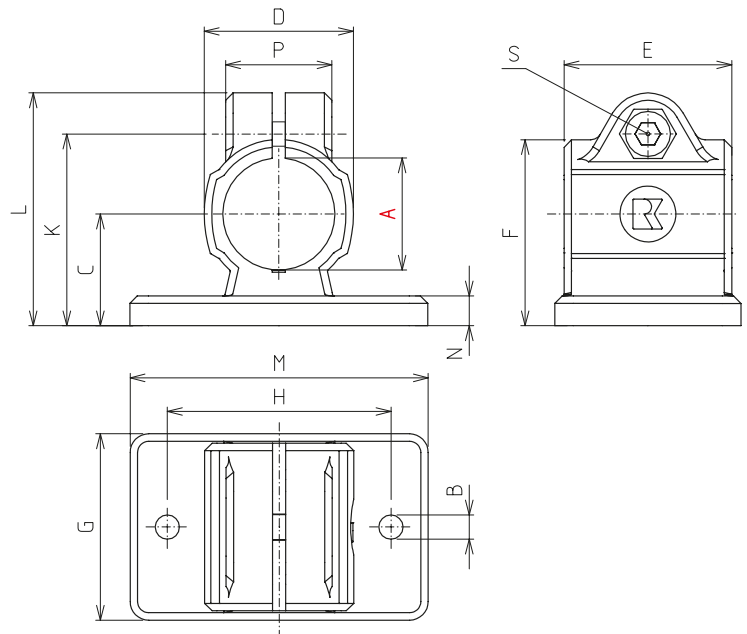
- Stainless screws



Sleeve clamp M-KU

[mm]

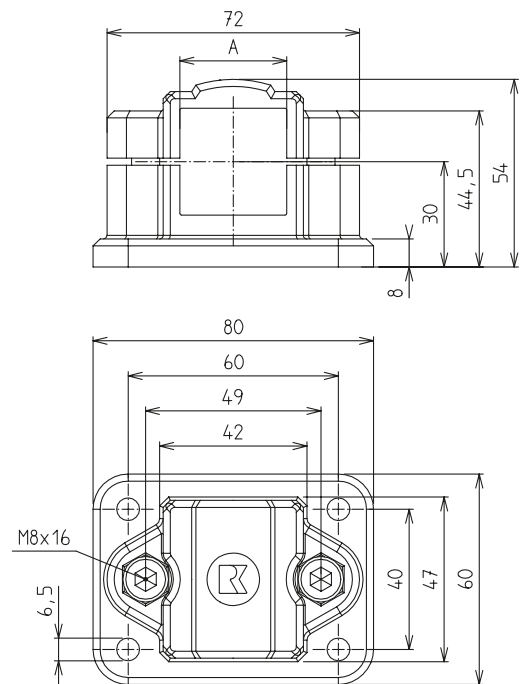
Code No.	Type	lot sizes	Clamping *		C	D	L	P	Q	R	Weight m [g]	Clamping lever S Code No.
			A	B								
K40018ACSR18R18	12-18	10, 20, 30... pcs	18		34	25	65	21	50	14	28	93024
K40030ACSR30R30	20-30	5, 10, 15... pcs	30		52,5	40	95	28,5	73	22,8	87	902381



Flange clamp FK-KU

[mm]

Code No.	Type	lot sizes	Clamping * A	B	C	D	E	F	G	H	K	L	M	N	Weight m [g]	Clamping lever S Code No.
K20018ACSR18	12-18	10, 20, 30... pcs	18	5,3	18	25	30	30,5	35	40	32	39,5	50	5	30	93024
K20030ACSR30	20-30	5, 10, 15... pcs	30	6,5	30	40	45	50	50	60	52,8	62,5	80	8	84	902381



Flange clamp FKV-KU

[mm]

Code No.	Type	lot sizes	Clamping * A	Weight m [g]	Clamping lever S Code No.
K20530ACSV30	20-30	5, 10, 15... pcs	30	125	93024

* Reduction of the diameter or cross section of the clamping with inserts and bushes possible

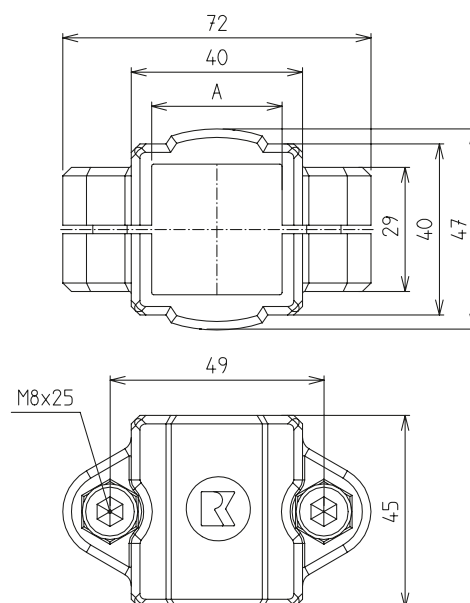
RK LightClamps – Flange-/Strap clamps

Order instruction:

- Purchase only in lot sizes and a multiple of that, see product table below
- Inserts and bushes for diameter/cross-section changes see accessories page 48
- Standard: equipped and preassembled with galvanised screws
- Clamping levers have to be ordered separately
Delivery unassembled
See table last column and page 49

On request:

- Stainless screws

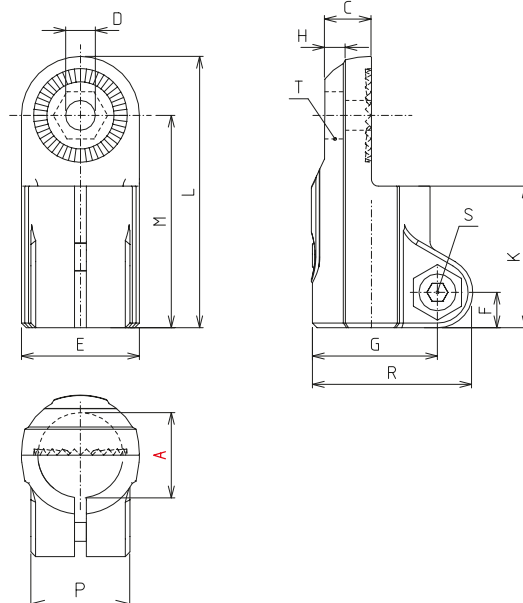


Flange clamp V-KU

Code No.	Type	lot sizes	Clamping * A	[mm]	
				Weight m [g]	Clamping lever S Code No.
K20830ACSV30	20-30	5, 10, 15... pcs	30	90	902381



15° toothing, internal

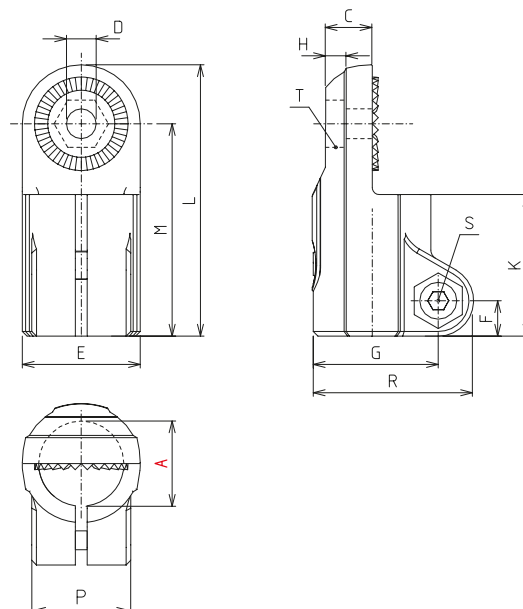


Strap clamp LP-KU

[mm]																	
Code No.	Type	lot sizes	Clamping* A	C	D	E	F	G	H	K	L	M	P	R	T	Weight m [g]	Clamping lever S Code No.
K70118ACSR18	12-18	10, 20, 30... pcs	18	9,9	6,1	25	7,5	26,5	5,9	30	57,5	45	21	34	M6- DIN985	28	93024
K70130ACSR30	20-30	5, 10, 15... pcs	30	16,5	8,1	40	11	41,5	9,9	45	88	68	28,5	52,5	M8- DIN985	86	902381



15° toothing, external



Strap clamp LPZ-KU

[mm]																	
Code No.	Type	lot sizes	Clamping * A	C	D	E	F	G	H	K	L	M	P	R	T	Weight m [g]	Clamping lever S Code No.
K71018ACSR18	12-18	10, 20, 30... pcs	18	9,9	6,1	25	7,5	26,5	5,9	30	57,5	45	21	34	M6- DIN985	28	93024
K71030ACSR30	20-30	5, 10, 15... pcs	30	16,5	8,1	40	11	43	9,9	45	88	68	28,5	52,5	M8- DIN985	87	902381

* Reduction of the diameter or cross section of the clamping with inserts and bushes possible

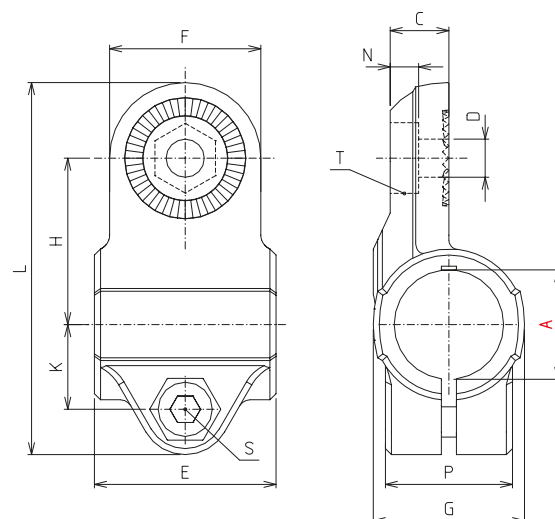
RK LightClamps – Strap-/Hinge clamps

Order instruction:

- Purchase only in lot sizes and a multiple of that, see product table below
- Inserts and bushes for diameter/cross-section changes see accessories page 48
- Standard: equipped and preassembled with galvanised screws
- Clamping levers have to be ordered separately
Delivery unassembled
See table last column and page 49

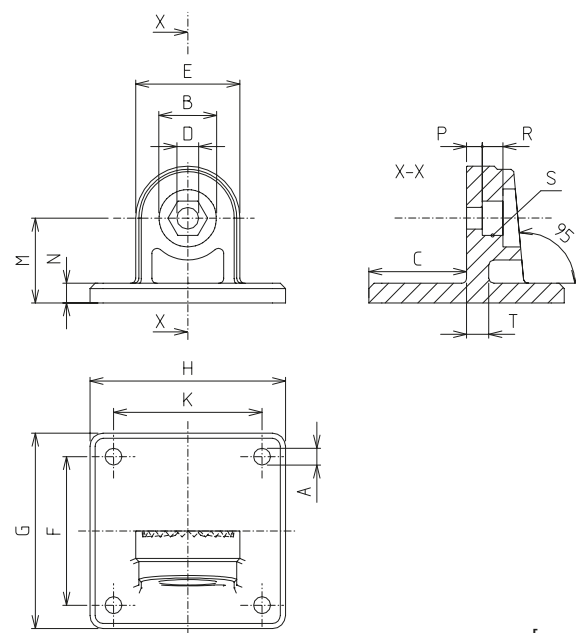
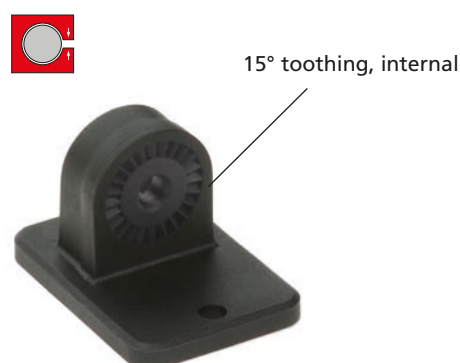
On request:

- Stainless screws



Strap clamp LW-KU

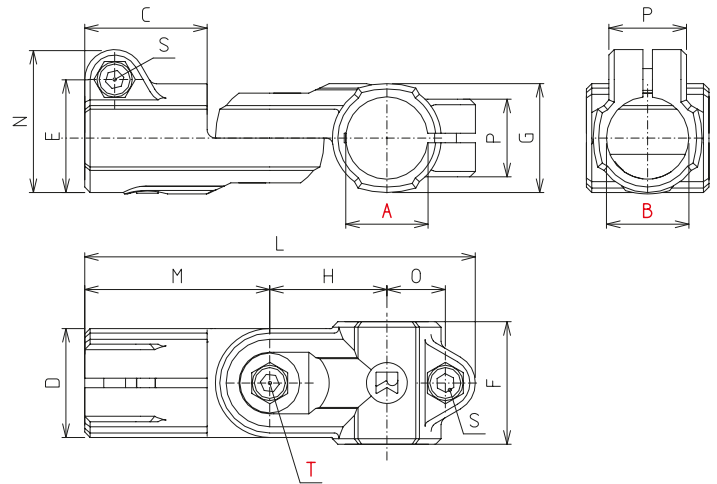
Code No.	Type	lot sizes	Clamping * A	C	D	E	F	G	H	K	L	M	P	T	Weight m [g]	Clamping lever S Code No.
K70018ACSR18	12-18	10, 20, 30... pcs	18	9,7	6,1	30	25	25	27,5	14	61,5	5,7	21	M6- DIN985	29	93024
K70030ACSR30	20-30	5, 10, 15... pcs	30	16,5	8,1	45	40	40	43	21,5	95,5	9,9	28,5	M8- DIN985	91	902381



Strap clamp LF-KU

Code No.	Type	lot sizes	A	B	C	D	E	F	G	H	K**	M	N	P	R	S	T	Weight m [g]
K70218ACS	12-18	10, 20, 30... pcs	5,3	15	25	6,1	25	40	50	35	0	20	5	4,5	5,5	M6- DIN985	5	17
K70230ACS	20-30	5, 10, 15... pcs	6,5	22	37,5	8,1	40	60	75	75	60	32,5	7,5	6,6	8,2	M8- DIN985	7	77

** For Type 12–18, only 2 bores (centered) available.



Hinge clamp GW-KU (without tothing) GWZ-KU (with tothing)

[mm]

Code No.	Type	lot sizes	Clamping *		C	D	E	F	G	H	L	M	N	O	P	Weight m [g]	Clamping lever S Code No.
			A	B													
K80118ACSR18R18	GW 12-18	10, 20, 30... pcs	18		30	25	26,5	30	25	27,5	94	45	34	14	21	67	93024
K80418ACSR18R18	GWZ 12-18	10, 20, 30... pcs	18		30	25	26,5	30	25	27,5	94	45	34	14	21	67	93024
K80130ACSR30R30	GW 20-30	5, 10, 15... pcs	30		45	40	41,5	45	40	43	143,5	68	52,5	32,5	28,5	177	90222
K80430ACSR30R30	GWZ 20-30	5, 10, 15... pcs	30		45	40	41,5	45	40	43	143,5	68	52,5	32,5	28,5	178	902381

GW – without tothing, 180° infinitely
GWZ – with tothing, rotation of 180°, 15° intervals

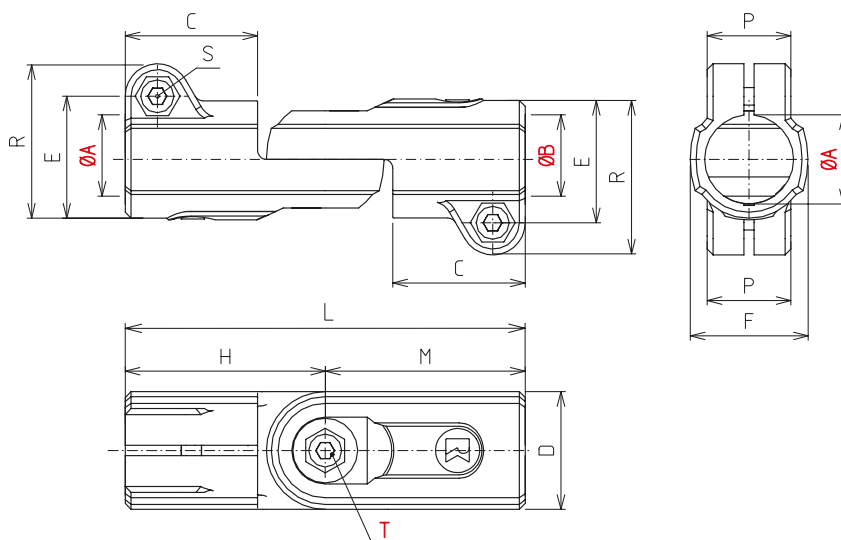
RK LightClamps – Hinge clamp

Order instruction:

- Purchase only in lot sizes and a multiple of that, see product table below
- Inserts and bushes for diameter/cross-section changes see accessories page 48
- Standard: equipped and preassembled with galvanised screws
- Clamping levers have to be ordered separately
Delivery unassembled
See table last column and page 49

On request:

- Stainless screws

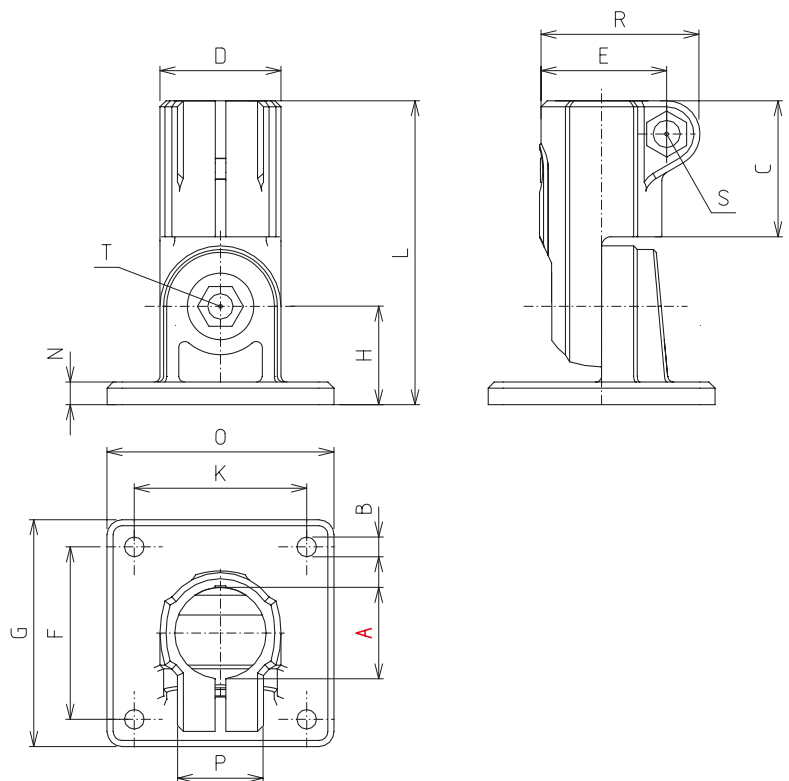


Hinge clamp GP-KU (without tothing) GPZ-KU (with tothing)

[mm]

Code No.	Type	lot sizes	Clamping *		C	D	E	F	H	L	M	P	R	Weight m [g]	Clamping lever S Code No.
			A	B											
K80018ACSR18R18	GP 12-18	10, 20, 30... pcs	18		30	25	26,5	30	45	90	45	21	34	66	93024
K80518ACSR18R18	GPZ 12-18	10, 20, 30... pcs	18		30	25	26,5	30	45	90	45	21	34	66	93024
K80030ACSR30R30	GP 20-30	5, 10, 15... pcs	30		45	40	41,5	40	68	136	68	28,5	52,5	194	902381
K80530ACSR30R30	GPZ 20-30	5, 10, 15... pcs	30		45	40	41,5	40	68	136	68	28,5	52,5	194	902381

GP – without tothing, 180° infinitely
GPZ – with tothing, rotation of 180°, 15° intervals



Hinge clamp GF-KU (without tothing) GFZ-KU (with tothing)

[mm]

Code No.	Type	lot sizes	Clamping * A	B	C	D	E	F	G	H	K*	L	N	O	P	R	Weight m [g]	Clamping lever S Code No.
K80218ACSR18	GF 12-18	10, 20, 30... pcs	18	5,3	30	25	26,5	40	50	20	0	65	5	35	21	34	55	93024
K80718ACSR18	GFZ 12-18	10, 20, 30... pcs	18	5,3	30	25	26,5	40	50	20	0	65	5	35	21	34	55	93024
K80230ACSR30	GF 20-30	5, 10, 15... pcs	30	6,5	45	40	41,5	60	75	32,5	60	100,5	7,5	75	28,5	52,5	184	902381
K80730ACSR30	GFZ 20-30	5, 10, 15... pcs	30	6,5	45	40	41,5	60	75	32,5	60	100,5	7,5	75	28,5	52,5	185	902381

GF – without tothing, 180° infinitely
GFZ – with tothing, rotation of 180°, 15° intervals

* Reduction of the diameter or cross section of the clamping with inserts and bushes possible

Medium	resistant	conditionally resistant	not resistant
Acetic acid		●	
Aqua regia			○
Benzene + Fuel	●		
Benzole	●		
Brake fluid	●		
Butane	●		
Butanol	●		
Butyl acetate	●		
Carbon Tetrachloride	●		
Caustic soda	●		
Chloroflourocarbon	●		
Chloroform		●	
Cresol		●	
Dekalin	●		
Dibutyl phthalate	●		
Diesel	●		
Dimethylformamide		●	
Diocetyl phthalate	●		
Dioxan	●		
Engine oils	●		
Ethanol		●	
Fats + Waxes	●		
Fatty acids	●		
Gear oil	●		
Glycol		●	
Glysantin	●		
Glycerine	●		
Heating oil	●		
Heptane, Hexane	●		
Hydraulic oil	●		
Hydrochloric acid			○
Isopropanol	●		
Isooctane	●		
Methanol		●	
Methylene chloride			○
Mineral oils		●	
Naphthalene	●	●	
Ozone			○
Phenol		●	
Phosphoric acid		●	

Medium	resistant	conditionally resistant	not resistant
Potassium hypochloride			○
Sulphuric acid			○
Silicone oil	●		
Styrolene	●		
Tetrahydrofurane	●		
Toluol	●		
Trichlorethylene		◐	
Water	●		
Xylene		◐	

This table is valid for all the clamping elements of the RK Light-Clamps programme.
The indications in the table are provided without guarantee, being the materials behaviour under real application conditions affected by different factors i.e. temperature, substance concentration, short-term or permanent presence of chemicalp.

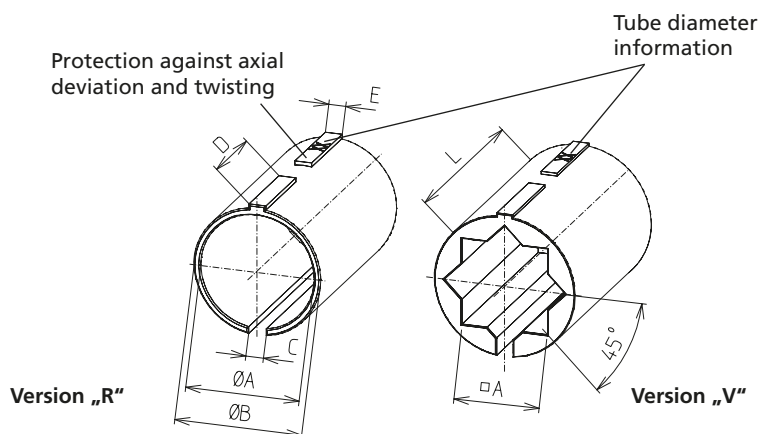
Material	Reinforced polyamide
Working temperature	
0°C bis 80°C	always
-30°C bis 120°C	temporary



RK LightClamps – Accessories

Order instruction:

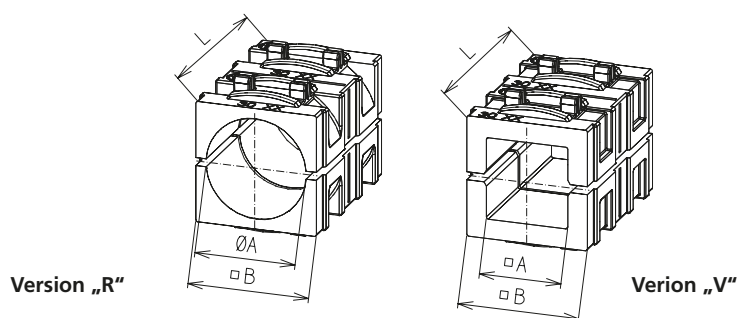
- Purchase only in lot sizes and a multiple of that, see product table below



Reducing bushes for single-pcs elements

[mm]

Code No.	Type	Version	lot sizes	A + 0,1	B	C	D	E	L
96200AC	12-18	R12	10, 20, 30... pcs	12,25	18	2,5	11,9	2,4	30
96209AC	12-18	R13	10, 20, 30... pcs	13,25	18	2,5	11,9	2,4	30
96201AC	12-18	R14	10, 20, 30... pcs	14,25	18	2,5	11,9	2,4	30
96202AC	12-18	R15	10, 20, 30... pcs	15,25	18	2,5	11,9	2,4	30
96203AC	12-18	R16	10, 20, 30... pcs	16,25	18	2,5	11,9	2,4	30
96205AC	12-18	V10	10, 20, 30... pcs	10,25	18	2,5	11,9	2,4	30
96204AC	20-30	R20	5, 10, 15... pcs	20,25	30	3,5	18,9	3,4	45
96206AC	20-30	R25	5, 10, 15... pcs	25,25	30	3,5	18,9	3,4	45
96208AC	20-30	V20	5, 10, 15... pcs	20,25	30	3,5	18,9	3,4	45



Reducing inserts for multi-pcs elements

[mm]

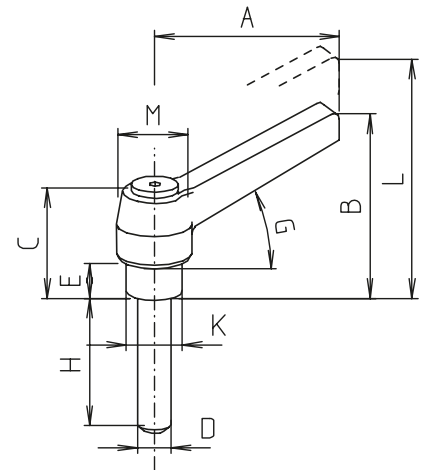
Code No.	Type	Version	lot sizes	A	B	L
963000AC	20-30	R20	5, 10, 15... pcs	20,25	30,3	45
963002AC	20-30	R25	5, 10, 15... pcs	25,25	30,3	45
963004AC	20-30	R30	5, 10, 15... pcs	30,25	30,3	45
963001AC	20-30	V20	5, 10, 15... pcs	20,50	30,3	45
963003AC	20-30	V25	5, 10, 15... pcs	25,50	30,3	45

Clamping lever



- The clamping lever enables the re-adjustment of the clamping element. This can be done by easy exchange of the cylinder screw.
- By lifting the grip, the free movement of the serration toothing enables the clamping lever to swing into the desired position. The grip moves into its original position when released.

Material: Grip made of polyamide, black, screws made of stainless steel



Stainless steel (single-pcs elements)

[mm]

Code No.	Type	A	B	C	D	E	G	H	K	L	M
93024	12-18	40	35,5	30	M6	10	20°	18	10	39,5	13
902381	20-30	65	48,5	36,5	M8	14		25	13	52,5	18



Screws – Steel, zinc-plated

[mm]

Code No.	Type	lot sizes	Size	Description
40061601	12-18	100, 200, 300... pcs	M6x18 / DIN 7984	Socket head cap screw
40061161			M6 / DIN 985	Hexagonal nut
40061801	20-30	100, 200, 300... pcs	M8x16 / DIN 7984	Socket head cap screw
40061851			M8x25 / DIN 7984	Socket head cap screw
40061181			M8 / DIN 985	Hexagonal nut



Screws – Stainless steel

[mm]

Code No.	Type	lot sizes	Size	Description
40091601	12-18	100, 200, 300... pcs	M6x18 / DIN 7984	Socket head cap screw
40091161			M6 / DIN 985	Hexagonal nut
40091801	20-30	100, 200, 300... pcs	M8x16 / DIN 7984	Socket head cap screw
40091851			M8x25 / DIN 7984	Socket head cap screw
40091181			M8 / DIN 985	Hexagonal nut