

Shock-proof load range

Loads..... page 197

Right angle tube connector..... page 200

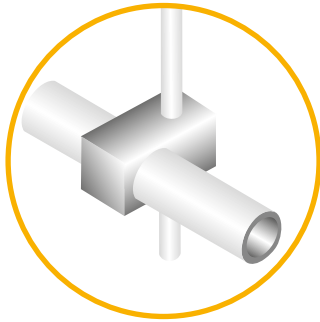
Axially parallel tube connector..... page 203

Robust Clamps

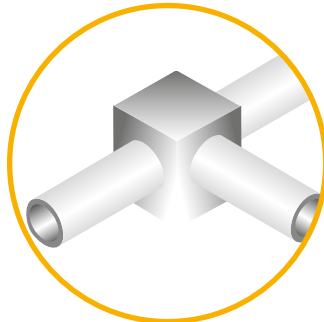


... specific demands require specific solutionp.

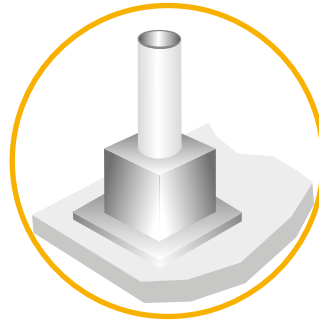
■ Right angle tube connector



Cross clamps

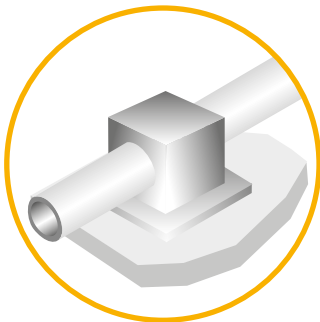


Angle clamps



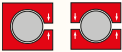
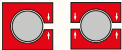
Base clamps

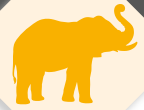
■ Axially parallel tube connector



Flange clamps

Robust Clamps - table of contents

Right angle tube connector (Single-piece and multi-piece elements) 	■ Cross clamps p. 200 ■ Angle clamps p. 201 ■ Base clamps p. 202
Axially parallel tube connector (Single-piece and multi-piece elements) 	■ Flange clamps p. 203
Accessories	■ Accessories from p. 204



Verion:

■ Robust Clamps



Single-piece elements

✓ For the quick and inexpensive installation



Cross clamps



Angle clamps



Base clamps



Flange clamps

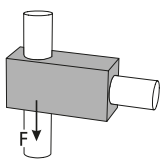
Stainless steel:

- Impact and shock load
- High temperature resistance
- Corrosion resistance
- Stainless steel precision casting

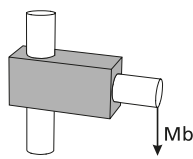
Loads robust clamps

Attention!

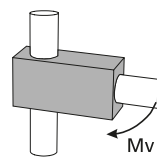
The data in the chart do not ensure a guarantee of quality or a warrant characteristic of our products. These are nonbinding standard values which might be not reached in individual cases due to the temperature or surface finish of the clamping profile.



Adhesion force F [KN]



Bending moment M_b [Nm]



Twisting moment M_v [Nm]

Tightening torque of clamping screws:

M6: 10 Nm

M8: 25 Nm

M10: 50 Nm

Material data sheet available upon request.

Size Type	Ø12 - 18			Ø 30			Ø 40		
	F	M_b	M_v	F	M_b	M_v	F	M_b	M_v
Cross clamps									
K-VA	7,3	328	37	8,6	975	104	15,5	1780	355
Angle clamps									
W-VA	4,4	449	31	5,8	1570	30	10,1	3360	183
Base clamps									
FS-VA	5,5	175	30	7,2	1420	82	7,9	2790	150
Flange clamps									
FK-VA	6,3	236	44	8,4	740	115	15,2	2580	236

Robust Clamps – Comprehensive view

Right angle
tube connector



Axially parallel tube
connector





Simple probe fixation in an aggressive environment.

Robust Clamps – Cross-/Angle clamps

Order instruction:

- Standard equipment premounted stainless steel screws
- Clamping levers have to be ordered separately
Delivery unassembled
See table last column and page 218



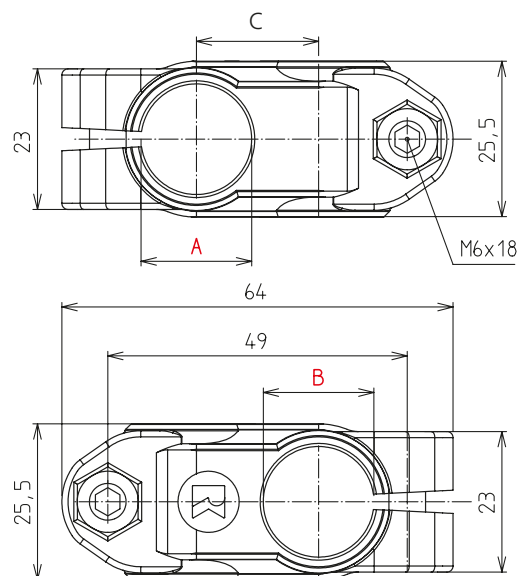
K-VA 12–14



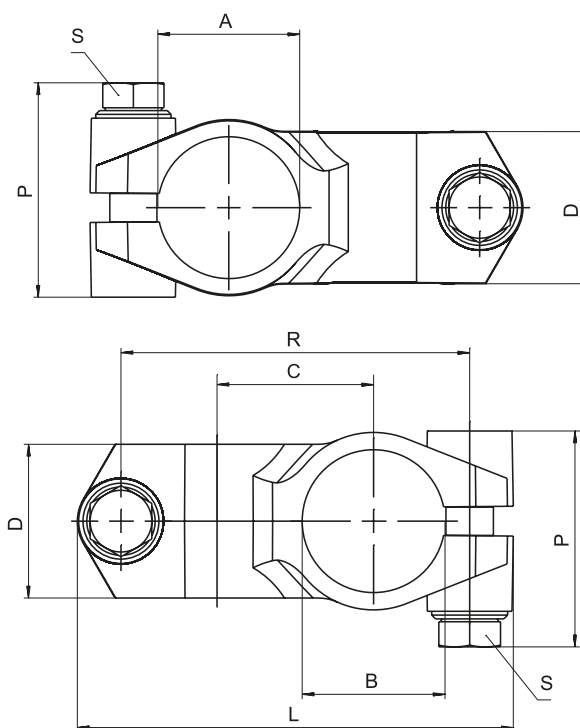
K-VA 16–20

Cross clamps K-VA

[mm]						
Code No.	Type	A	B	C	m [g]	Clamping lever S Code No.
101200003800	K-VA 12	12,1	12,1	20	198	93031
101400003800	K-VA 14	14,1	14,1	20	183	
101600003800	K-VA 16	16,1	16,1	20	165	
101800003800	K-VA 18	18,1	18,1	20	144	
102000003800	K-VA 20	20,1	20,1	21	106	



K-VA 30, 40



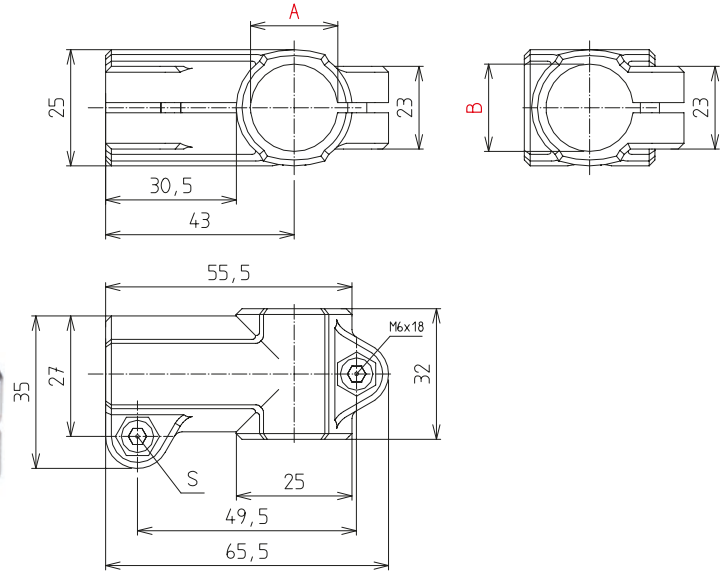
[mm]										
Code No.	Type	A	B	C	D	L	P	R	m[g]	Clamping lever S Code No.
103000003900	K-VA 30	30,1	30,1	33	32,4	92	45,5	73,5	348	9300201
104000003900	K-VA 40	40,17	40,17	42	40,4	118	52	95,5	647	93023



W-VA 12–14



W-VA 16–20

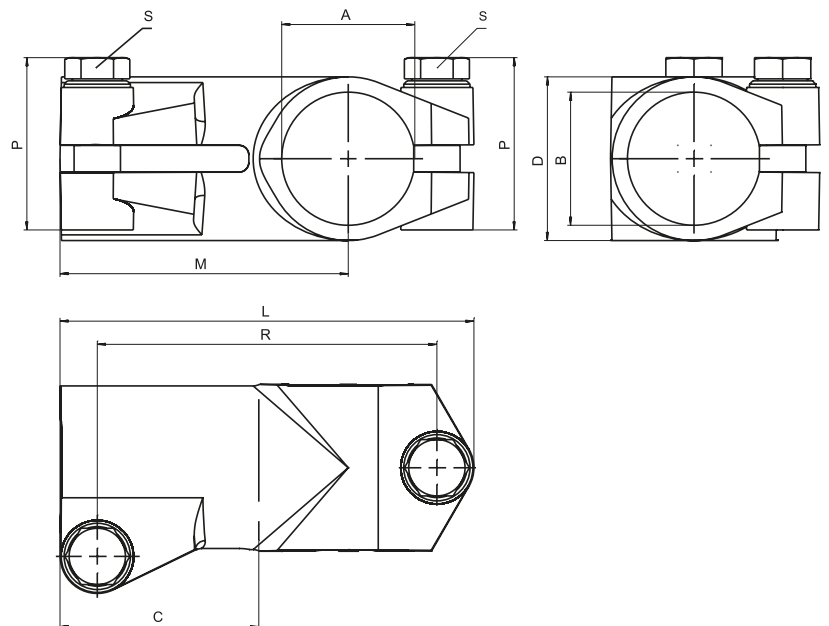


Angle clamps W-VA

Code No.	Type	A	B	[mm]	
				m [g]	Clamping lever S Code No.
111200003800	W-VA 12	12,1	12,1	235	93031
111400003800	W-VA 14	14,1	14,1	216	
111600003800	W-VA 16	16,1	16,1	194	
111800003800	W-VA 18	18,1	18,1	169	
112000003800	W-VA 20	20,1	20,1	123	



W-VA 30, 40



Code No.	Type	A	B	C	D	L	M	P	R	[mm]	
										m[g]	Clamping lever S Code No.
113000003900	W-VA 30	30,1	30,1	40	38,4	87	58	45,5	69	403	9300201
114000003900	W-VA 40	40,17	40,17	60	50,4	124,9	87	52	102,5	875	93023

Robust Clamps – Base-/Flange clamps

Order instruction:

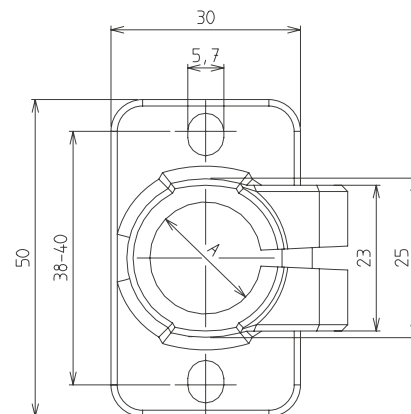
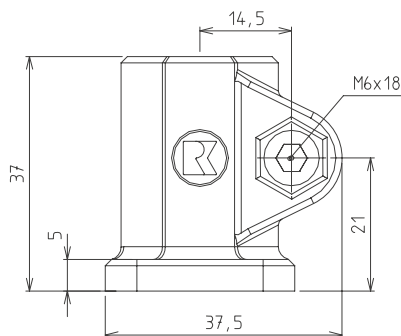
- Standard equipment premounted stainless steel screws
- Clamping levers have to be ordered separately
Delivery unassembled
See table last column and page 218



FS-VA 12–14



FS-VA 16–20

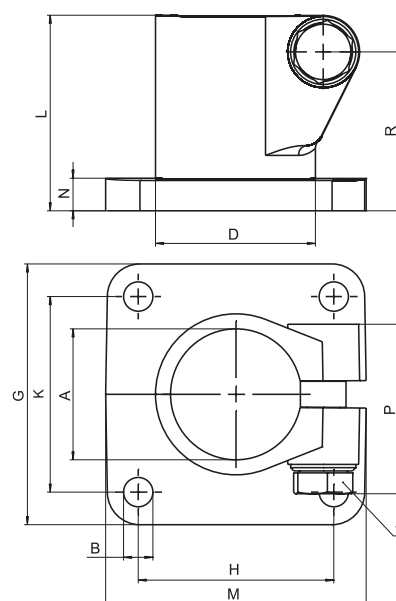


Base clamps FS-VA

Code No.	Type	A	[mm]		Clamping lever S Code No.
			m	g	
13120000380	FS-VA 12	12,1	163		93031
13140000380	FS-VA 14	14,1	151		
13160000380	FS-VA 16	16,1	138		
13180000380	FS-VA 18	18,1	124		
13200000380	FS-VA 20	20,1	99		



FS-VA 30, 40



Code No.	Type	[mm]												Clamping lever S Code No.
		A	B	D	G	H	K	L	M	N	P	R	m[g]	
13300000390	FS-VA 30	30,1	7	37,4	60	40	40	50	60	7	45,5	41	316	9300201
13400000390	FS-VA 40	40,17	9	49,4	80	60	60	60	80	10	52	90	629	93023

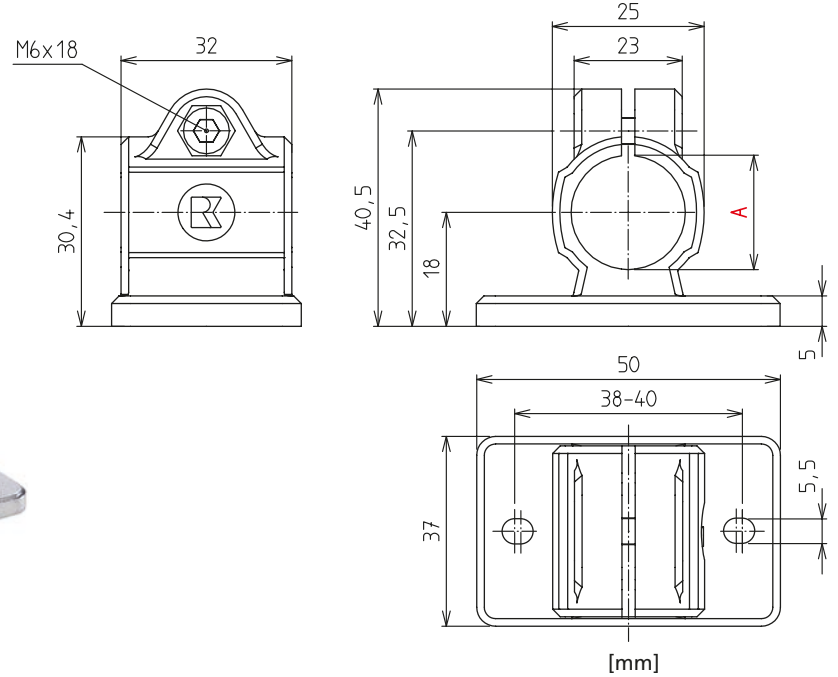


FK-VA 12–14



FK-VA 16–20

Flange clamps FK-VA

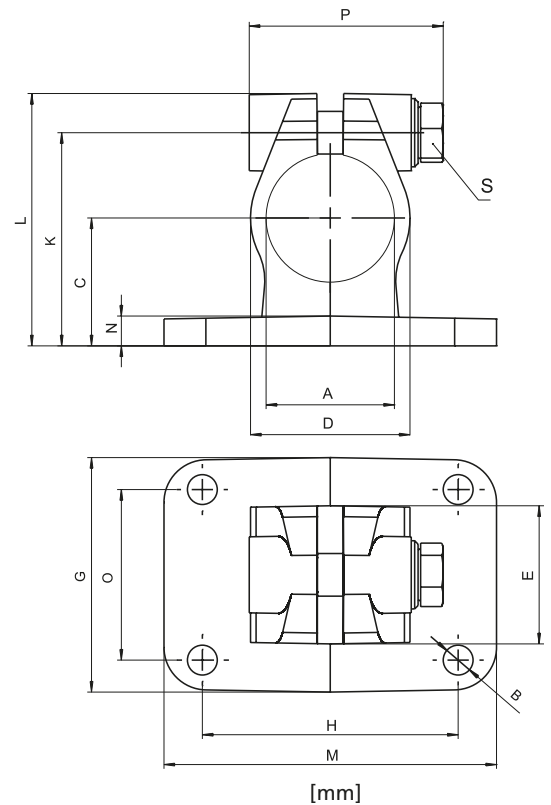


[mm]

Code No.	Type	A	m [g]	Clamping lever S Code No.
12120000380	FK-VA 12	12,1	178	93031
12140000380	FK-VA 14	14,1	167	
12160000380	FK-VA 16	16,1	156	
12180000380	FK-VA 18	18,1	143	
12200000380	FK-VA 20	20,1	120	



FK-VA 30, 40



[mm]

Code No.	Type	A	B	C	D	E	G	H	K	L	M	N	O	P	m[g]	Clamping lever S Code No.
12300000390	FK-VA 30	30,1	7	30	37,4	32,4	55	60	50	59,2	78	7	40	45,5	370	9300201
12400000390	FK-VA 40	40,17	9	42	49,4	46,4	80	60	69	80	80	10	60	52	849	93023



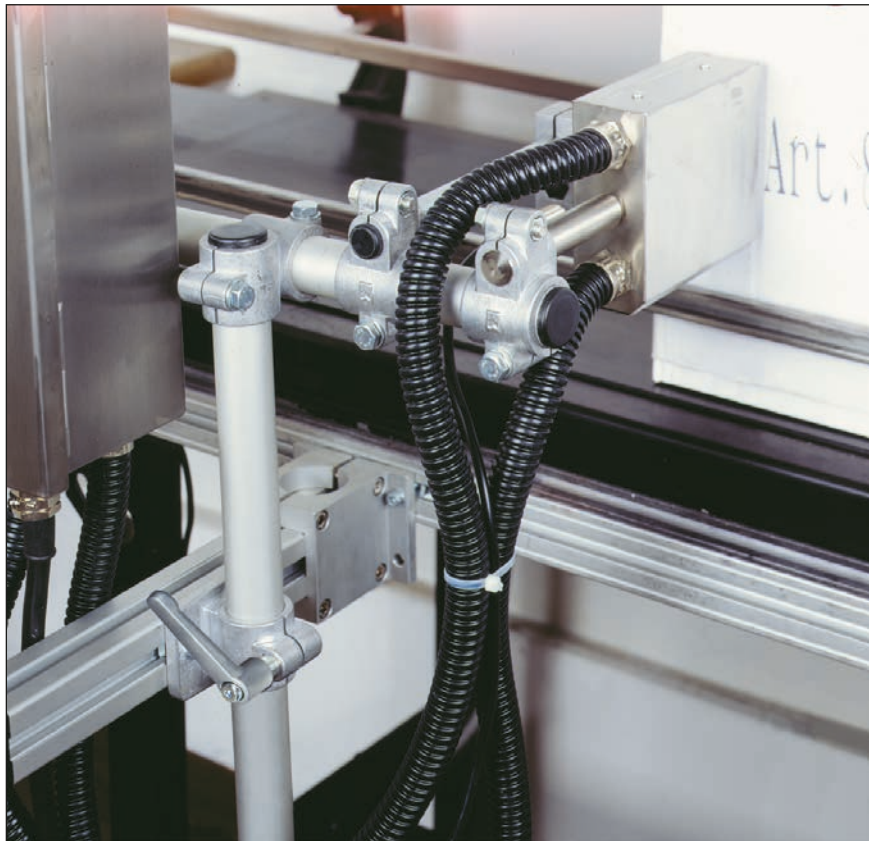
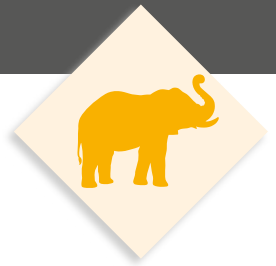
RK ROSE+KRIEGER



Light-, Solid- & Robust Clamps

Accessories from p. 206

Accessories



Print head holder on a packaging machine – can be moved as required.

Accessories - table of contents

Accessories



- Steel-, Stainless steel-, Aluminium tubes ... p. 208



- Aluminium bars /-profiles p. 211



- Threaded stopper p. 213



- Tube stopper p. 214



- Special tube fittings p. 215



- Adjustable feet p. 216



- Castors p. 217



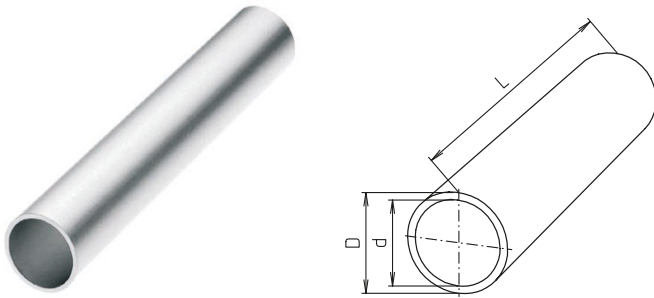
- Clamping levers / Insert nuts from p. 218



- Adapter sleeve R28 p.

Order instruction:

- Cut-to-length or standard lengths



Steel-, Stainless steel tubes / round

[mm]

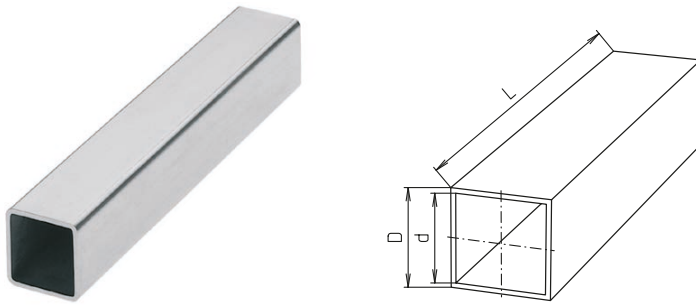
Code No.	Type	D tol. zinc-plated	L max. zinc-plated	D tol. stainless steel	L max. stainless steel	d
801215_ _ _ _ _	12x1,5	12 ± 0,1	6000	12 ± 0,12	3000	9
801415_ _ _ _ _	14x1,5	14 ± 0,1		14 ± 0,14		11
801515_ _ _ _ _	15x1,5	15 ± 0,1		15 ± 0,15		12
801615_ _ _ _ _	16 x1,5	16 ± 0,1		16 ± 0,16		13
801815_ _ _ _ _	18x1,5	18 ± 0,1		18 ± 0,12		15
802020_ _ _ _ _	20x2	20 ± 0,1		20 ± 0,12	3000	16
802520_ _ _ _ _	25x2	25 ± 0,1		25 ± 0,25		21
803020_ _ _ _ _	30x2	30 ± 0,1		30 ± 0,10		26
803230_ _ _ _ _	32x3	32 ± 0,15		32 ± 0,15		26
803530* _ _ _ _ _	35x3	35 ± 0,15		–	–	29
804040_ _ _ _ _	40x4	40 + 0,15		40 + 0,12	3000	32
804240* _ _ _ _ _	42x4	42 ± 0,2		–	–	34
804540* _ _ _ _ _	45x4	45 ± 0,2				37
804835* _ _ _ _ _	48x3,5	48 ± 0,2				41
804840* _ _ _ _ _	48x4	48 ± 0,2				40
805040_ _ _ _ _	50x4	50 + 0,2		50 + 0,15	3000	42
805540* _ _ _ _ _	55x4	55 ± 0,25		–	–	47
806050_ _ _ _ _	60x5	60 + 0,25		60 + 0,20	3000	50
806250* _ _ _ _ _	62x5	62 ± 0,3		–	–	52
808050* _ _ _ _ _	80x5	80 ± 0,35	5800	–	–	70

Length:
every length is possible
standard lengths:**
0500, 1000, 2000,
3000 und 4000 mm

Version:
0 = polished St 37-2
1 = galvanized zinc-plated St 37-2
2 = stainless steel VA 1.4301

* Not available in stainless steel

** standard lengths only for galvanized zinc-plated



Steel / square

[mm]

Code No.	Type	D tol.	L max. zinc-plated
812010_ _ _ _ _	20x1,5	20 ± 0,2	4000
812515_ _ _ _ _	25x1,5	25 ± 0,25	6000
813020_ _ _ _ _	30x2	30 ± 0,25	4000
814030_ _ _ _ _	40x3	40 ± 0,3	6000
815030_ _ _ _ _	50x3	50 ± 0,3	
816040_ _ _ _ _	60x4	60 ± 0,35	
818050_ _ _ _ _	80x5	80 ± 0,5	


Length:
every length is possible
standard lengths
0500, 1000, 2000, 3000 und 4000 mm

Version:
0 = polished St 37-2
1 = galvanized zinc-plated St 37-2

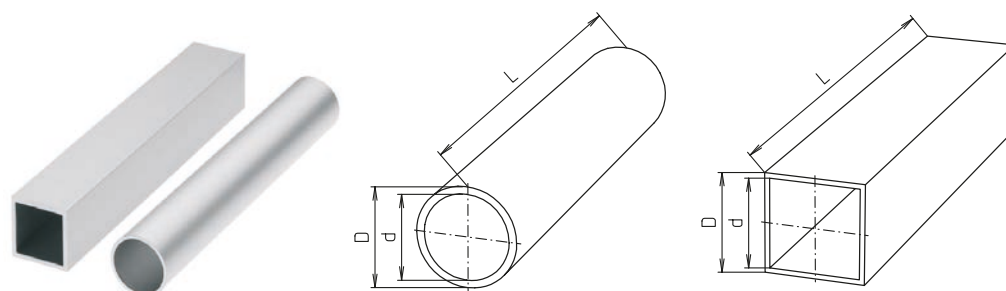
Stainless steel tubes / square

Standard tube has no tolerance limit

[mm]

Code No.	Type	D tol.	L max.
8120102_ _ _ _ _	20x1,5	–	6000
8125152_ _ _ _ _	25x1,5	–	
8130202_ _ _ _ _	30x2	–	
8140302_ _ _ _ _	40x3	–	
8150302_ _ _ _ _	50x3	–	
8160402_ _ _ _ _	60x4	–	
8180502_ _ _ _ _	80x5	–	

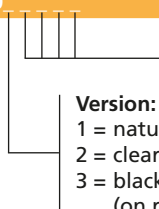

Length:
every length is possible



Aluminium tubes

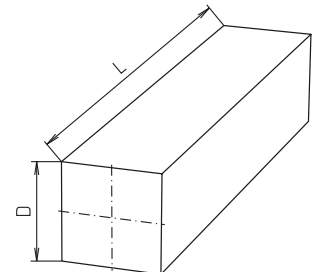
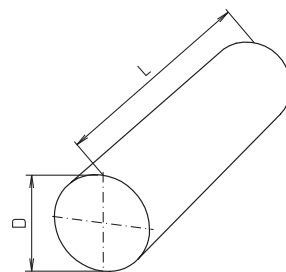
[mm]

Code No.	Type	D tol.	d	L max.
round				
822030_ _ _ _ _	20x3	20 ± 0,1	14	6000
823020_ _ _ _ _	30x2	30 ± 0,1	26	
824030_ _ _ _ _	40x3	40 ± 0,15	34	
825030_ _ _ _ _	50x3	50 ± 0,2	44	
826030_ _ _ _ _	60x3	60 + 0,2	54	
square				
832015_ _ _ _ _	20x1,5	20 ± 0,2	17	6000
833020_ _ _ _ _	30x2	30 ± 0,2	26	
834040_ _ _ _ _	40x4	40 ± 0,3	32	
835040_ _ _ _ _	50x4	50 ± 0,4	42	
836040_ _ _ _ _	60x4	60 ± 0,4	52	



Length:
every length is possible

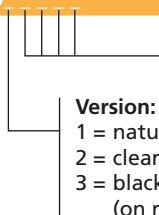
Version:
1 = natural AlMgSi0,5
2 = clear anodized AlMgSi0,5
3 = black anodized AlMgSi0,5
(on request)



Aluminium bars

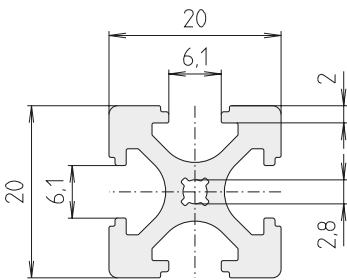
[mm]

Code No.	Type	D tol.	L max.
round			
820800_ _ _ _ _	8	8	3000
821000_ _ _ _ _	10	10	3000
square			
831000	10	10	3000



Length:
every length is possible

Version:
1 = natural AlMgSi0,5
2 = clear anodized AlMgSi0,5
3 = black anodized AlMgSi0,5
(on request)



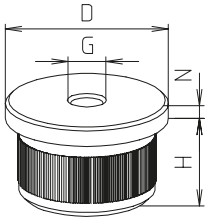
Aluminium profile F-20x20

[mm]

Code No.	Version		Anodized
E01000BBC	bar	max. 3000 mm	natural
E01000BBA_ _ _ _	cut		natural
E01000BCC	bar		black
E01000BCA_ _ _ _	cut		black



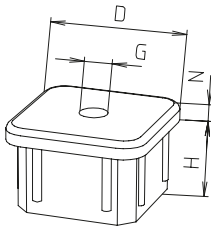
Length:
Standard lengths (clear and black anodized)
500, 1000 und 2000 mm
On request every cut is possible



Round tube threaded stopper

[mm]

Code No.	Type	D	G	H	N
Aluminium					
90321	50x4	50	M10	25	6
90322			M16		
90323	60x5	60	M10	30	6
90324			M16		



Square tube threaded stopper

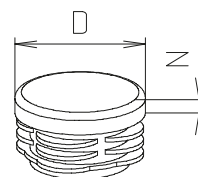
[mm]

Code No.	Type	D	G	H	N
Aluminium					
90421	50x3	50x50	M10	25	6
90422			M16		
90427	60x4	60x60	M10	25	8
90425			M16		
90426			M20		

Accessories

Order instruction:

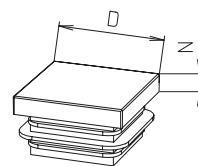
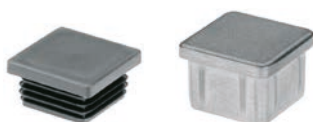
- Purchase only in lot sizes and a multiple of that, see product table below



Round tube stopper

[mm]

Code No.	Type	lot sizes	Ø D	N
Black polyethylene				
903011	18x1,5	10, 20, 30... pcs	18	5
903021	20x2	10, 20, 30... pcs	20	5
903031	25x2	10, 20, 30... pcs	25	5
903041	30x2	10, 20, 30... pcs	30	5
90305	32x3	10, 20, 30... pcs	32	5
90312	35x3	10, 20, 30... pcs	35	5
90306	40x3	10, 20, 30... pcs	40	5
90307	40x4	10, 20, 30... pcs		
90308	45x4	10, 20, 30... pcs	45	5
90309	48x4	10, 20, 30... pcs	48	
90310	50x3 / 50x4	10, 20, 30... pcs	50	5
90311	60x5	10, 20, 30... pcs	60	
Aluminium				
90331	50x4	—	50	6
90332	60x5		60	



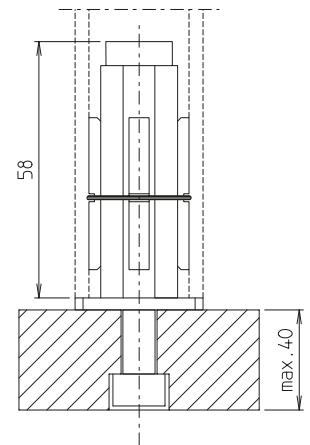
Square tube stopper

[mm]

Code No.	Type	lot sizes	□ D	N
Black polyethylene				
90400C	20x1	10, 20, 30... pcs	20x20	5
90401	25x1,5	10, 20, 30... pcs	25x25	5
90402	30x2	10, 20, 30... pcs	30x30	
90403	35x2,5	10, 20, 30... pcs	35x35	
90404	40x3	10, 20, 30... pcs	40x40	5
90408	40x4	10, 20, 30... pcs		
90405	50x3	10, 20, 30... pcs	50x50	5
90406	60x4	10, 20, 30... pcs	60x60	
90407	80x5	10, 20, 30... pcs	80x80	
Aluminium				
90411	50x3	—	50x50	6

- Order instruction
Steel parts galvanized zinc-plated

- Clamping
element for Ø and □ tubes
- Clamping
capacity for Ø 21–40,5 mm
- Clamping
capacity for □ 16,5–32 mm



Special tube fittings

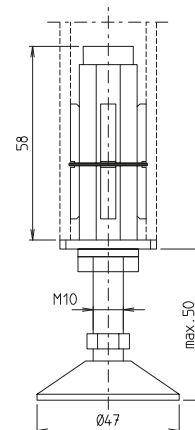
[mm]

Code No. DIN 912	Code No. DIN 7991	Ø Type	□ Type
90701	90711	25x2	–
90702	90712	30x2	25x1,5
90702	90712	32x3	–
90702	90712	35x3	–
90705	90715	40x4	30x2
90705	90715	42x4	–
90707	90717	48x4	35x2,5
90708	90718	–	40x3

Accessories

Order instruction:

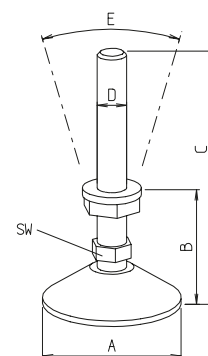
- Hinge parts PA, black
- Steel parts galvanized zinc-plated



Adjustable feet with special tube fittings

[mm]

Code No.	Ø Type	□ Type
90601	25x2	–
90602	30x2	25x1,5
90602	32x3	–
90602	35x3	–
90605	40x4	30x2
90605	42x4	–
90607	48x4	35x2,5
90608	–	40x3



Adjustable feet

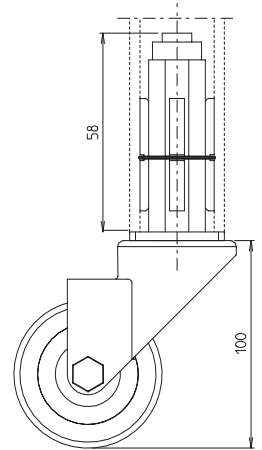
[mm]

Code No.	A	B	C	D	E	L	SW
90611	47	22	117	M10	30°	117	12
4606301	70	30	130	M16		130	22
4046301	60	39	185	M20	30°	185	16
4046311*	60	42	188			188	16
4046312*	123	70	216			216	16

* with anti-vibration pat



- Rubber wheel, width 25 mm
- Ball bearing
- polyamide rim
- blue-grey rubber tyre
- thread guard
- load capacity 600 N



Castors with special tube fittings and wheel brake

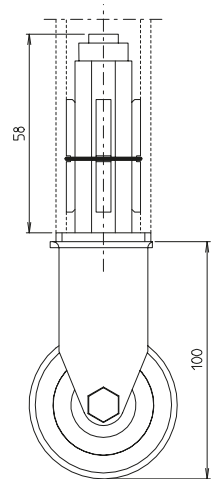
[mm]

Code No.	Ø Type	□ Type
90501	25x2	–
90502	30x2	25x1,5
90502	32x3	–
90502	35x3	–
90505	40x4	30x2
90505	42x4	–
90507	48x4	35x2,5
90508	–	40x3

Other versions up on request



- Rubber wheel, width 25 mm
- Ball bearing
- polyamide rim
- blue-grey rubber tyre
- thread guard
- load capacity 600 N



[mm]

Fixed wheels with special tube fittings

Code No.	Ø Type	□ Type
90801	25x2	–
90802	30x2	25x1,5
90802	32x3	–
90802	35x3	–
90805	40x4	30x2
90805	42x4	–
90807	48x4	35x2,5
90808	–	40x



■ Instructions:

Regarding its dimensions and adjustability the lever is perfectly adapted to the RK clamp system.

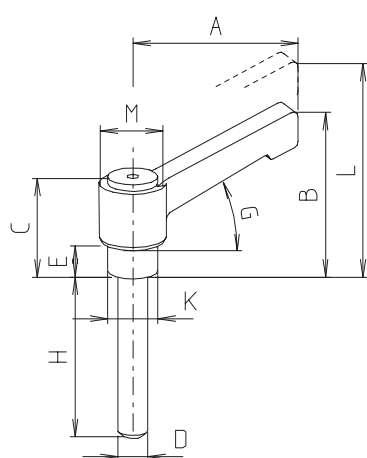
The handle must be lifted high enough to disengage allowing "confined space" tightening or loosening as desired. It relocks by means of spring pressure.

■ Materials:

Handle made of zinc pressure casting according to DIN 1743, steel parts quality class 5.8, galvanized.

Clamping lever

[mm]



Code No.	Type	A	B	C	D	E	G	H	K	L	M	m [g]		
9020101	HV 5x20	40	33,5	26	M5	5,5	20°	20	7,5	37,5	13,5	32		
90211	HV 6x10	45	35,5	26	M6	6,5	20°	10	10	37,5	13,5	30		
90249	HV 6x20	45						20				–		
90210	HV 6x16	40	35,5	26	M6	6,5	20°	16	10	37,5	13,5	–		
90209	HV 6x18							18						
9021201	HV 6x25	40	35,5	27	M6	6,5	20°	25	10	37,5	13,5	34		
90247	HV 6x30							30				–		
9021301	HV 6x35	45	35,5	27	M6	6,5	20°	35	10	37,5	13,5	38		
9021401	HV 6x40							40				40		
9021501	HV 6x45	63	43	31	M6	6,5	20°	45	10	47	18	65		
9021601	HV 6x55							55				75		
9021701	HV 6x60							60				80		
90221	HV 8x15	63	45	33	M8	8,5	20°	15	13	49	18	68		
9022201	HV 8x25							25				72		
9300201	HV 8x30	65	45	33	M8	8,5	20°	30	13	49	18	75		
9022401	HV 8x35							35				80		
9022501	HV 8x45	63	45	33	M8	8,5	20°	45	13	49	18	86		
9022601	HV 8x50							50				91		
9022701	HV 8x55	63	45	33	M8	8,5	20°	55	13	57,5	22	100		
9022801	HV 8x60							60					49	18
9022901	HV 8x70	78	53,5	36	M8	8,5	20°	70	13	57,5	22	120		
9023001	HV 8x80							80				13	57,5	22
9023101	HV 8x90	92		40,5	M10	10	20°	90	16	59	26	140		
9024101	HV 10x20	78	55	38				11				20°	20	125
90250	HV 10x30												30	–
90251	HV 10x35	78	55	38	M10	10	20°	35	16	59	26	–		
90242	HV 10x45							45				140		
9024301	HV 10x50	78	55	38	M10	10	20°	50	16	59	26	145		
9024401	HV 10x60	92	62	42	M10	10	20°	60	16	68	26	200		
9024501	HV 10x70	112	70	42	M10	10	20°	70	16	68	26	–		
9024601	HV 10x110	152	110	42	M10	10	20°	110	16	68	26	250		
9025501	HV 12x40	95	64	42,5	M12	13,5	20°	40	18	68	26	–		
9025301	HV 12x45							45						
9025601	HV 12x80							80						
9027001	HV 16x72	100	72	65	M16	19	20°	65	23	72	33	–		

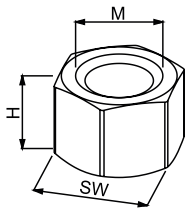
Upon request:

- Hand levers with plastic handles
- Hand levers with stainless steel threaded fitting

Order instruction:

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

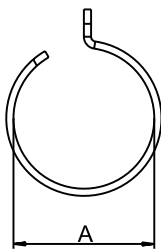
- Steel thread insert (exchange pcs)



Insert nut

Code No.	Materials	Type	lot sizes	H	M	SW
90762	steel	M6SW8	10, 20, 30... pcs	5	6	8
90763	stainless steel	M6SW8	10, 20, 30... pcs			
90764	steel	M6SW10	10, 20, 30... pcs	9	6	10
90765	steel	M8SW11H12	10, 20, 30... pcs	12	8	11
90766	steel	M8SW11H7	10, 20, 30... pcs	7	8	11
90767	stainless steel	M8SW11H7	10, 20, 30... pcs			
90768	steel	M10SW14	10, 20, 30... pcs	10	10	14
90769	stainless steel	M10SW14	10, 20, 30... pcs			

[mm]



- simple assembly
- axial and rotation locking
- retrofit at existing systems and structures possible

Adapter sleeve R28

Code No.	Type	lot sizes	Ø A
913131	Typ 1	5, 10, 15... pcs	28,4 - 28,8
913141	Typ 2	5, 10, 15... pcs	28,0 - 28,3
913151	Typ 3	5, 10, 15... pcs	27,5 - 27,9

[mm]

Following Solid Clamps / Industrial-Design can be combined with adapter sleeves.

Solid Clamps	Type
Cross clamps	K 30, 30x25, 30x20, KD 30x18, 30x16, 30x15, 30x14, 30x12, KR 30, KVR 30
Angle clamps	W30, WE 30
Base clamps	FS 30
Flange clamps	FK 30, 30-4
Sleeve clamps	M 30, MD 30x25
Insert clamps	S 30