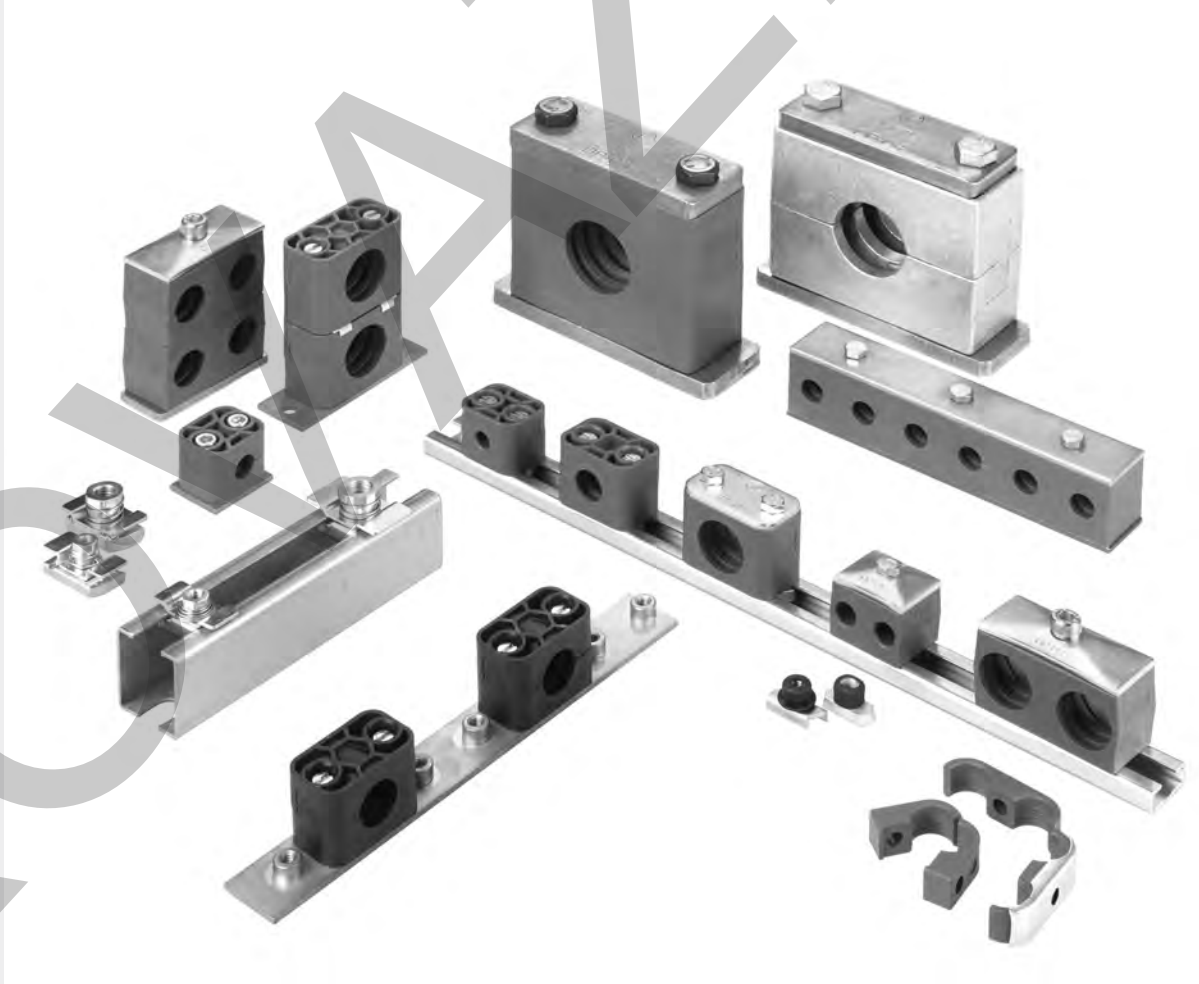
Parker

Ermeto Original
Tube clamps



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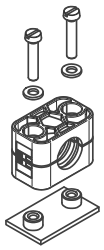
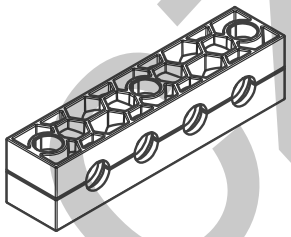
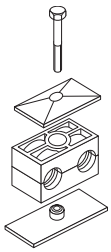
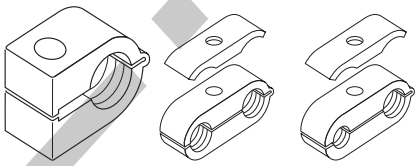
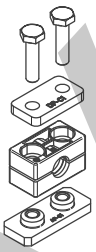
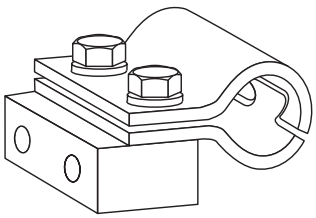
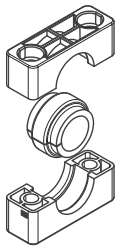
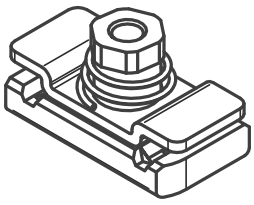
Series A Light series (DIN 3015-1)	 S8-S23	Multiclamps	 S38-S43
Series B Double series (DIN 3015-3)	 S24-S28	Series O	single double  S44-S45
Series C Heavy series (DIN 3015-2)	 S29-S37	Hydraulic steel clamps	 S46-S47
		Tube clamps with Elastomer inlay	 S48-S50
		Fixed adaptor	 S51-S54

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Tube clamps

DIN 3015

Programme:

Tube clamps series A (according to DIN 3015 Part 1)
Available in nine standard sizes for normal mechanical requirements.
– Outer tube diameter for the metric series 4 to 101.8 mm
– Outer tube diameter for the inch-size series R 1/8″ to R 3½″
– Outer tube diameter for the imperial size series ¼″ to 4″
Accessories and construction types

Tube clamps series B (according to DIN 3015 Part 3)
Available as a twin tube clamp in five standard sizes for normal mechanical requirements.
– Outer tube diameter for the metric series 6 to 42 mm
– Outer tube diameter for the inch-size series R 1/8″ to R1 1/4″
– Outer tube diameter for the imperial size series 1/4″ to 1 1/2″
Double tube clamps with different tube o.d. are available on request.
Accessories and construction types

Tube clamps series C (according to DIN 3015 Part 2)
Specially designed for high mechanical requirements, and available in ten standard sizes.
– Outer tube diameter for the metric series 6 to 406.4 mm
– Outer tube diameter for the inch-size series R 1/8″ to R 16″
– Outer tube diameter for the imperial size series 5/16″ to 12 3/4″
Accessories and construction types

Design:
According to DIN 3015:
Both upper and lower clamp-halves are identical.
Webs inside the bore of the clamps provide an impact and vibration deadening effect, and absorb the forces towards the direction of the tube axis.
For mounting hoses and cables it is recommended that clamps with a smooth interior surface and without prestress (block height C is reduced by gap height S) are used.

Clamp material:

Polypropylene	–30°C up to + 90° C	colour dark green
Polyamide	–40°C up to + 120° C	colour black
Rubber	–50°C up to + 120° C	colour black
Aluminium	–40°C up to + 300° C	

Stainless steel upon request.

Non standard colours upon request.

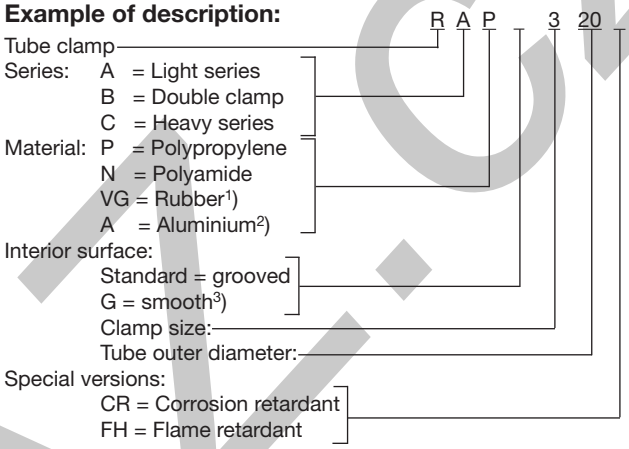
Special materials
Flame retardant.....p. S5
Corrosion retardant..... p. S5

Resistance to stress:
The remarkable features of **Tube Clamps** are their considerable re-set capability, high tensile strength, as well as their very high output strength and excellent resistance to cold. The choice of design and clamp material depends on the specific demands of the mechanical and thermal requirements.

Order code:
The order code for clamp halves as well as the reference No. for complete tube clamps incorporates the serial indication, material description and interior surface.

In accordance with DIN 3015, clamps always consist of two clamp halves. (1 clamp = 2 clamp halves)

Example of description:



1) Rubber only available for series A and B, inside smooth and series C grooved design (G).
2) Aluminium only available for series A size 0 to 6 and series C size 1 to 8. Aluminium clamps only available in a grooved design.
3) Inside smooth series A not for size 0.
Inside smooth series C only up to size 8.
Clamps with smooth interior surface and without prestress

Finish of the metal components:
All metal components are available in steel and stainless steel.

Stainless steel quality:
Stainless steel W5 (1.4401 or 1.4571) from stock, W4 (1.4301 or 1.4305) available on request.

Surfaces steel:
As is standard, the steel components have the following surfaces:

Metal part	Series A+B		Series C	
Bolt	Cr(VI)-free zinc plated		phosphated	Cr(VI)-free zinc plated
Cover plate	Cr(VI)-free zinc plated		phosphated	Cr(VI)-free zinc plated
Welding plate	phosphated		phosphated	
Mounting rail nut	Cr(VI)-free zinc plated		Cr(VI)-free zinc plated	
Mounting rail	plain & oiled	Cr(VI)-free zinc plated	plain & oiled	Cr(VI)-free zinc plated

Surfaces differing from this are available on request.

Registration:
On request.

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Tube clamps material properties

DIN 3015

Mechanical properties	Polypropylene (PP)	Polyamide (PA)	Aluminium (Al)	Rubber (TPE)
Density	0.90 g/cm³	1.10 g/cm³	2.65 g/cm³	0.97 g/cm³
Impact value at 23 °C	7 kJ/m² (ISO 179/1eA)	8 kJ/mm² (ISO 179/1eA)	–	–
Impact value at -20 °C	3 kJ/m² (ISO 179/1eA)	–	–	–
Modulus of elasticity	1.400 N/mm² (ISO 527)	2.000 N/mm² (ISO 527)	72.000 N/mm²	–
Yield stress. resp. tensile strength (Rm)	28 N/mm² (ISO 527)	50 N/mm² (ISO 527)	>240 N/mm²	5.2 ... 8.8 N/mm² (ASTM D412)
Thermal properties				
Temp. resistance	–30 … +90°C	–40 … +120°C	-40 ... +300°C	–50 … +120°C
Chemical properties				
Weak acids	limited resistant	limited resistant	limited resistant	resistant
Weak alkalis	limited resistant	limited resistant	limited resistant	resistant
Alcohol	resistant	resistant	resistant	resistant
Petrol	limited resistant	resistant	resistant	limited resistant
Mineral oils	limited resistant	resistant	resistant	resistant
Other oils	resistant	resistant	resistant	resistant
Sea Water	resistant	resistant	limited resistant	resistant

The outlined particulars are approximate values and are only shown for reference, which are not binding, and with regard to possible protection of third parties. They do not exempt you from your own examination of suitability of the products delivered by us. Therefore, these values can only be used in a limited way for guidance only.

The application of the products is carried out outside of our control and, therefore, is exclusively subject to your own area of responsibility. Any claim however would be limited for all damages to the value of the goods supplied by us and in use by you.

It goes without saying, that we guarantee the perfect quality of our products according to our general sales and delivery conditions.

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Special materials

Flame retardant clamps for railway vehicles EN 45545-2

Our flame retardant finish is the ideal solution for the transport and railway market.
This provides increased safety and efficiency for railway vehicles.

Material:	Polypropylene (PP-F)	Polyamide (PA-F)	Rubber (TPE-F)
T01 EN ISO 4589-2: Oxygen Index	OI = 38.7 %	OI = 35.5 %	OI = 33.4 %
T10.03 EN ISO 5659-2: 25 kW/m²	D_S max. = 48	D_S max. = 124	D_S max. = 79
T12 NF X 70 100-1 & -2: 600°C	CIT_{NLP} = 0.15	CIT_{NLP} = 0.51	CIT_{NLP} = 0.15
Compliance of the requirement set R22, 23, 24, 26 for the hazard level:	HL1 - HL2 - HL3	HL1 - HL2 - HL3	HL1 - HL2 - HL3

The advantages:
- Improved railway vehicle safety
- Flame retardant in accordance with DIN 45545-2, UL 94, DIN 3015, BS 6853, DIN 5510-2, NF F 16-101 NF F 16-101, BS 6853, UL 94
- 2+5 system. Only 2 sizes for tube diameters 6-42 mm
- Plates and rails in steel and stainless steel

Standard compliance:
Flame protected tube clamps DIN 3015 certification in line with:
- BS 6853
- DIN 5510-2
- DIN EN 45545
- UL 94
- NF F 16-101

For the original material polypropylene, the color of the clamp is white, black for polymid and solid rubber.

Example of description:

R A P 3 20 FH X

- Tube clamp:
- Series: A = Light series; B = Twin tube clamp; C = Heavy series
- Material: P = Polypropylene; N = Polyamide; VG = Rubber[1])
- Interiour surface: Standard = grooved; G = smooth[2])
- Clamp size:
- Tube outer diameter:
- Special versions: FH = Flame retardant
- Clamp body only

Corrosion retardant clamps

Our anti-corrosion finish is the ideal solution for areas at risk of corrosion.

Anticorrosion was developed on the basis of the approved polypropylene.

A specialised corrosion inhibitor effectively slows down the development of crevice corrosion between the clamp bodies and the tubework.

These corrosion-preventing properties were tested and recorded by salt spray tests in accordance with DIN EN ISO 9227.

Tube clamps made of PP-CR are available in the A+C series of our approved tube clamp range.

The source material is polypropylene, and the colour of the clamps is always slate grey.

Advantages:
- Enormous reduction of crevice corrosion
- Extension of maintenance intervals
- Cost reduction due to extended durability of the tubing

Example of description:

R A P G 3 20 CR X

- Tube clamp:
- Series: A = Light series; C = Heavy series
- Material: P = Polypropylene
- Interiour surface: G = smooth[2])
- Clamp size:
- Tube outer diameter:
- Special versions: CR = Corrosion retardant
- Clamp body only

[1]) Rubber for series A and B only with smooth interiour surface (G).
[2]) Inside smooth series A not for size 0.
Inside smooth series C only up to size 8.
Clamps with smooth interior surface and without prestress.

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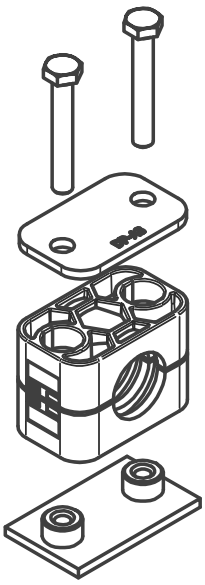
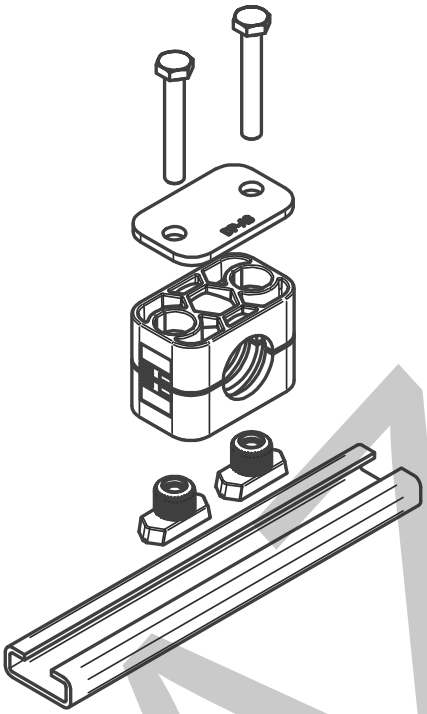
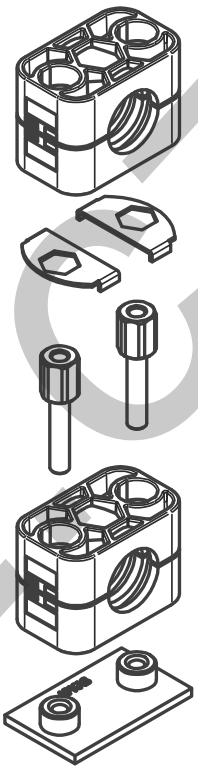
Tube clamps assembly instruction







Assembly:

Assembly on to metal welding plates

Place welding plates on a base appropriate for the load. Make sure that the clamps are properly aligned. Clamp lower clamp halve onto welding plate, insert tube, place upper clamp halve onto lower halve and fasten with the screws. Attention must be paid to the bias (after completed assembly, clamp halves may not be in contact)! Do not weld with fitted plastic clamp! Extended welding plates may be screw-fastened to the base.

Assembly on support rails

Support rails are available in four different heights and come in pieces of 1 m or 2 m length, as required.
Weld on support rail or screw-fasten with fastening angle bracket. Insert support rail nuts in rail and turn until stoppage. For heavy duty construction series, nuts are simply pushed in. Clamp lower clamp half on support rail nuts, insert tube, place upper clamp halve onto lower halve and fasten with the screws. Before fastening the screws the clamp may still be positioned. Attention must be paid to the bias (after completed assembly, the clamp halves may not be in contact)!

Construction assembly

Clamps allow the assembly of multiple clamps of the same construction size and of different tube diameters one above the other. The construction assembly is carried out with special fixing screws that are secured against twisting by applying a locking plate. Clamp lower clamp halve on welding plate or support rail respectively, insert tube, place upper clamp halve on lower halve and fasten with fixing screws. The fixing screw juts out from the upper clamp halve. The application of a locking late scurely fastens the fixing screw and prevents twisting. Clamp on second clamp halve on to the fixing screws etc.

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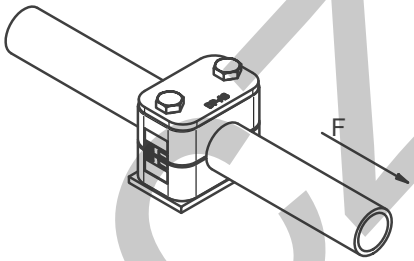
Tube clamps

DIN 3015

Screw tightening torque and axial pipe shearing forces

The indicated screw tightening torque and axial pipe shearing forces refer to the assembly with cover plates and outside hexagon bolts according to DIN 931/933.
The axial pipe shearing force (according to DIN 3015, part 10) is an average value, determined by three tests made with a steel pipe according to DIN 2448 of St. 37, for which static friction is assumed (temperature during tests: 23°C). When loading the clamp with the indicated test force (F) in axial pipe direction, the pipe must not slide in the clamp.



Series A - Light series (DIN 3015, part 1)

Size	Fixing screw DIN 931/933	Polypropylene		Polyamide		Aluminium	
		Screw tightening torque (Nm)	Pipe shearing force F (kN)	Screw tightening torque (Nm)	Pipe shearing force F (kN)	Screw tightening torque (Nm)	Pipe shearing force F (kN)
0	M6	8	0.6	10	0.6	–	–
1	M6	8	1.1	10	0.7	12	4.2
2	M6	8	1.2	10	0.8	12	4.3
3	M6	8	1.4	10	1.6	12	4.8
4	M6	8	1.5	10	1.7	12	5.0
5	M6	8	1.9	10	2.0	12	7.3
6	M6	8	2.0	10	2.5	12	8.9
7	M6	8	2.3	10	3.2	–	–
8	M6	8	2.6	10	3.5	–	–

Series B - Double series (DIN 3015, part 3)

Size	Fixing screw DIN 931/933	Polypropylene		Polyamide	
		Screw tightening torque (Nm,)	Pipe shearing force F (kN)	Screw tightening torque (Nm)	Pipe shearing force F (kN)
1	M6	5	0.9	6	0.9
2	M8	12	2.1	12	2.2
3	M8	12	1.9	12	2.0
4	M8	12	2.7	12	2.9
5	M8	8	1.7	8	2.5

Series C - Heavy series (DIN 3015, part 2)

Size	Fixing screw DIN 931/933	Polypropylene		Polyamide		Aluminium	
		Screw tightening torque (Nm)	Pipe shearing force F (kN)	Screw tightening torque (Nm)	Pipe shearing force F (kN)	Screw tightening torque (Nm)	Pipe shearing force F (kN)
1	M10	12	1.6	20	4.2	30	12.1
2	M10	12	2.9	20	4.5	30	15.1
3	M10	15	3.3	25	5.1	35	15.5
4	M12	30	8.2	40	9.3	55	29.4
5	M16	45	11.0	55	15.8	120	34.8
6	M20	80	14.0	150	21.0	220	50.0
7	M24	110	28.0	200	32.0	250	70.6
8	M30	180	40.0	350	48.0	500	84.5
9	M30	200	119.0	370	125.0	500	181.5
10	M30	270	168.0	450	180.0	600	244.5

For further information on clamp mouting, see page F14 following.

NOVA-07

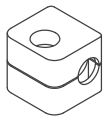
Tube clamps series A (Light construction series) – Components

DIN 3015, part 1

Order codes for clamp halves:

Material	Interior surface	Order code
Polypropylene	grooved	**RAP**
	smooth	**RAPG**
Polyamide	grooved	**RAN**
	smooth	**RANG**
Rubber	smooth	**RAVG**[1)]
Aluminium	grooved	**RAA**[2)]

(Please exchange as required standard abbreviation RAP in column for "clamp halves")
For flame- or corrosion retardant materials, please refer to page S5.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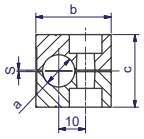

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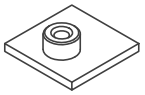
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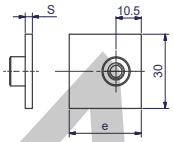

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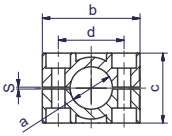
size 1–8



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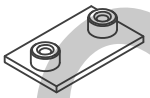
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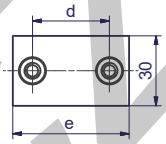

size 1–8

clamp size	Tube O.D. mm a	Tube NB	Tube O.D.	1 part 2 clamp halves RAP… Order code	dimensions: b	c	d	s	welding plate, short APK A… Order code	dimensions: d	e	s
0	4.0 6.0 6.4 8.0 9.5 10.0 12.0	G 1/8	1/4 5/16 3/8	**RAP004X** **RAP006X** **RAP006.4X** **RAP008X** **RAP009.5X** **RAP010X** **RAP012X**	28	27	-	0.6	**APKA0...***	-	30	3
1	4.0 6.0 6.4 8.0 9.5 10.0 12.0	G 1/8	1/4 5/16 3/8	**RAP104X** **RAP106X** **RAP106.4X** **RAP108X** **RAP109.5X** **RAP110X** **RAP112X**	34	27	20	0.6	**APKA1...***	20	36	3
2	12.7 13.5 14.0 15.0 16.0 17.2 18.0	G 1/4 G 3/8	1/2 5/8	**RAP212.7X** **RAP213.5X** **RAP214X** **RAP215X** **RAP216X** **RAP217.2X** **RAP218X**	42	33	26	0.8	**APKA2...***	26	42	3
3	19.0 20.0 21.3 22.0 23.0 25.0 25.4	G 1/2	3/4 1	**RAP319X** **RAP320X** **RAP321.3X** **RAP322X** **RAP323X** **RAP325X** **RAP325.4X**	49	35	33	1.0	**APKA3...***	33	50	3
4	26.9 28.0 30.0	G 3/4		**RAP426.9X** **RAP428X** **RAP430X**	59	42	40	1.2	**APKA4...***	40	59	3
5	32.0 33.7 35.0 38.0 40.0 42.0	G 1 G 1 1/4	1 1/4 1 1/2	**RAP532X** **RAP533.7X** **RAP535X** **RAP538X** **RAP540X** **RAP542X**	71	58	52	1.2	**APKA5...***	52	72	3

Continuation see next page …

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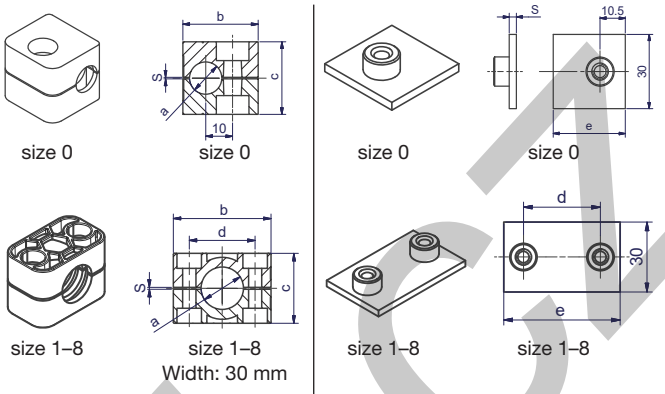
Tube clamps series A (Light construction series) – Components (Continued)

DIN 3015, part 1

Order codes for clamp halves:

Material	Interior surface	Order code
Polypropylene	grooved	**RAP**
	smooth	**RAPG**
Polyamide	grooved	**RAN**
	smooth	**RANG**
Rubber	smooth	**RAVG**[1]
Aluminium	grooved	**RAA**[2]

(Please exchange as required standard abbreviation RAP in column for "clamp halves")
For flame- or corrosion retardant materials, please refer to page S5.



clamp size	Tube O.D. mm a	Tube NB	Tube O.D.	1 part 2 clamp halves RAP… Order code	dimensions: b	c	d	s	welding plate, short APK A… Order code	dimensions: d	e	s
6	44.5		1 3/4	**RAP644.5X**	86	66	66	1.2	**APKA6...***	66	88	3
	45.0			**RAP645X**								
	48.0	G 1 1/2		**RAP648X**								
	50.0			**RAP650X**								
	50.8		2	**RAP650.8X**								
	52.0			**RAP652X**								
	54.0			**RAP654X**								
	55.0			**RAP655X**								
	57.0		2 1/4	**RAP657X**								
7	57.2		2 1/4	**RAP757.2X**	121	93.6	94	1.6	**APKA7...***	94	122	5
	60.3	G 2		**RAP760.3X**								
	63.5		2 1/2	**RAP763.5X**								
	70.0		2 3/4	**RAP770X**								
	73.0			**RAP773X**								
	76.1	G 2 1/2	3	**RAP776.1X**								
8	88.9	G 3		**RAP888.9X**	147	117.6	120	1.6	**APKA8...***	120	148	5
	101.8	G 3 1/2	4	**RAP8101.8X**								

[1] When assemblying solid rubber clamps, covering plates, hexagon screws and locking washers must be used.
[2] Aluminium sizes 0-6

*Please add the suffix below according to the surface/material required.

Order code suffixes		
Surface/material	**Suffix**	Example
Steel, phosphated	**X**	APKA0X
Steel, zinc plated, Cr(VI)-free	**VZX**	APKA0VZX
Stainless Steel 1.4571	**4571X**	APKA04571X

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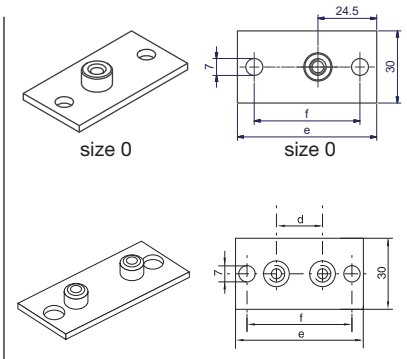
Tube clamps series A (Light construction series) – Components

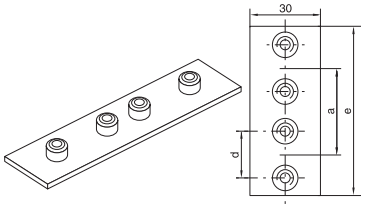
DIN 3015, part 1



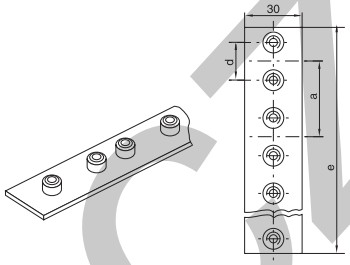
size 0 size 0

size 1–8 size 1–8

Thickness: 3 mm



Thickness: 3 mm



Thickness: 3 mm

clamp size	weld/screw plate, long				twin welding plate				multiple weld plate			
	APL A… Order code	dimensions: d	e	f	**APD A…** Order code	dimensions: d	a	e	**APR A…** Order code	dimensions: d	a	e
0	**APLA0...***	–	58	44	**APDA0...***	–	30	61	**APRA0...* (10 clamps)**	–	30	298
1	**APLA1...***	20	64	50	**APDA1...***	20	35	69	**APRA1...* (10 clamps)**	20	35	349
2	**APLA2...***	26	70	56	**APDA2...***	26	43	86	**APRA2...* (10 clamps)**	26	43	427
3	**APLA3...***	33	78	64	**APDA3...***	33	52	104	**APRA3...* (10 clamps)**	33	52	516
4	**APLA4...***	40	87	73	**APDA4...***	40	60	117	**APRA4...* (5 clamps)**	40	60	297
5	**APLA5...***	52	100	86	**APDA5...***	52	75	145	**APRA5...* (5 clamps)**	52	75	370
6	**APLA6...***	66	116	100	**APDA6...***	66	90	176	**APRA6...* (5 clamps)**	66	90	446
7	**APLA7...***	94	150	136								
8	**APLA8...***	120	178	162								

*Please add the suffix below according to the surface/material required.

Order code suffixes		
Surface/material	**Suffix**	Example
Steel, phosphated	**X**	APLA0X
Steel, zinc plated, Cr(VI)-free	**VZX**	APLA0VZX
Stainless Steel 1.4571	**4571X**	APLA04571X

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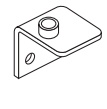
Tube clamps series A (Light construction series) – Components

DIN 3015, part 1



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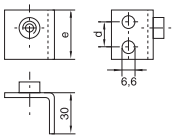

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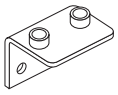
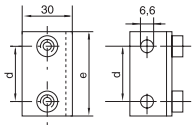
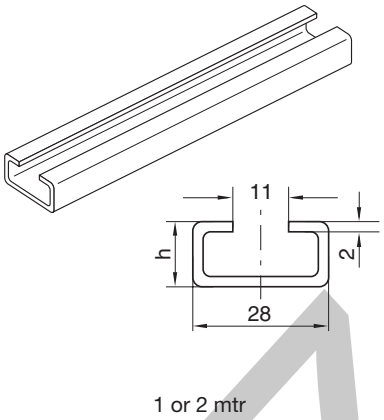


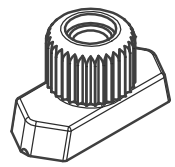
size 1–6

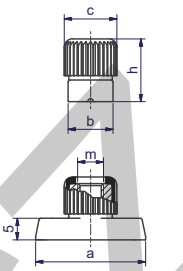


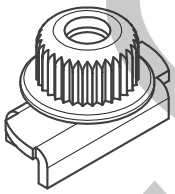
size 1–6
Thickness: 3 mm

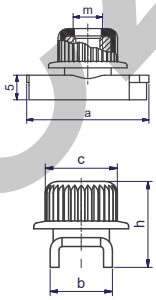


1 or 2 mtr









With loss protection
(See page T54).

clamp size	weld plate, angled			mounting rail		rail nut					
	APW A... Order code	dimensions: d	e	**TS...A/B** Order code	dimensions: h	**TM...A/B1** Order code	dimensions: a	b	c	m	h
0	**APWA0X APWA04571X**	14	30	**TS11A/B1...* TS11A/B2...* TS14A/B1...* TS14A/B2...* TS30A/B1...* TS30A/B2...***	TS11: 11 TS14: 14 TS30: 30	**TMA/TMB1VERZX TMA/TMB1/4571X**	25.4	10.4	12	M6	14.5
1	**APWA1X APWA14571X**	20	36								
2	**APWA2X APWA24571X**	26	42								
3	**APWA3X APWA34571X**	33	50								
4	**APWA4X APWA44571X**	40	59			**TMA/TMB1WLPVZX TMA/TMB1WLP71X**	24.9	10.5	12	M6	14.5
5	**APWA5X APWA54571X**	52	72								
6	**APWA6X APWA64571X**	66	88								

*Please add the suffix below according to the surface/material required.

Order code suffixes		
Surface/material	**Suffix**	Example
Steel, phosphated	**X**	TS11A/B1X
Steel, zinc plated, Cr(VI)-free	**VZX**	TS11A/B1VZX
Stainless Steel 1.4571	**71X**	TS11A/B171X

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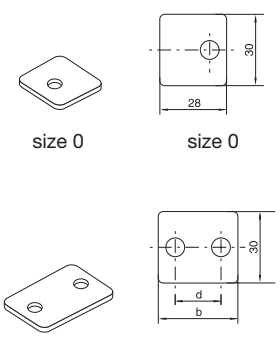
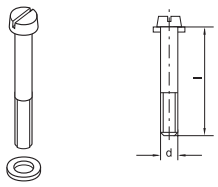
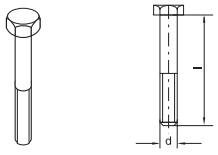
Tube clamps series A (Light construction series) – Components

DIN 3015, part 1

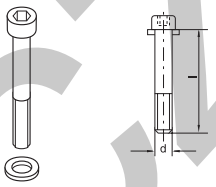




ISO 1207



DIN 931/933



ISO 4762

clamp size	cover plate			slot head		hexagon head		socket head	
	DP A… Order code	dimensions: b	d	**SL A…** Order code	dimensions: d × L	**SSL A…** Order code	dimensions: d × L	**IS A…** Order code	dimensions: d × L
0	**DPA0...***	–	–	**SLA0...***	M 06×20	**SSLA0...***	M 06×30	**ISA0...***	M 06×20
1	**DPA1...***	34	20	**SLA0...***	M 06×20	**SSLA0...***	M 06×30	**ISA0...***	M 06×20
2	**DPA2...***	40	26	**SLA2...***	M 06×25	**SSLA2/SSB1...***	M 06×35	**ISA2...***	M 06×25
3	**DPA3...***	48	33	**SLA3...***	M 06×30	**SSLA3...***	M 06×40	**ISA3...***	M 06×30
4	**DPA4...***	57	40	**SLA4...***	M 06×35	**SSLA4...***	M 06×45	**ISA4...***	M 06×35
5	**DPA5...***	70	52	**SLA5...***	M 06×50	**SSLA5...***	M 06×60	**ISA5...***	M 06×50
6	**DPA6...***	86	66	**SLA6...***	M 06×60	**SSLA6...***	M 06×70	**ISA6...***	M 06×60
7	**DPA7...***	120	94	**SLA7...***	M 06×90	**SSLA7...***	M 06×100	**ISA7...***	M 06×90
8	**DPA8...***	146	120	**SLA8...***	M 06×110	**SSLA8...***	M 06×125	**ISA8...***	M 06×110

*Please add the suffix below according to the surface/material required.

Order code suffixes		
Surface/material	**Suffix**	Example
Steel, zinc plated, Cr(VI)-free	**X**	DPA0X
Stainless Steel 1.4571	**4571X**	DPA04571X

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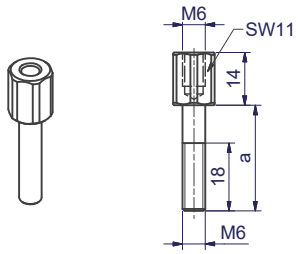
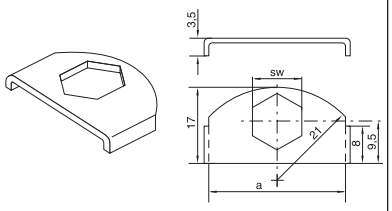
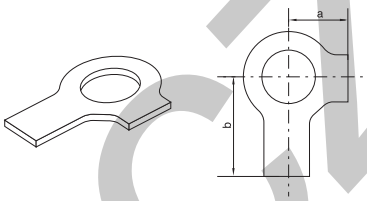
Tube clamps series A (Light construction series) – Components

DIN 3015, part 1



DIN 938





clamp size	stacking[1])		locking plate[1])			locking washer[2])		
	AS A… Order code	dimensions: a	**SB A** Order code	dimensions: a	SW	**US A** Order code	dimensions: a	b
0	**ASA0...* (ASB1...*)**	20						
1	**ASA0...* (ASB1...*)**	20						
2	**ASA2...***	25						
3	**ASA3...***	28						
4	**ASA4...***	34	**SBA...***	30	11	**USA/USB1X[3])**	9	18
5	**ASA5...***	50						
6	**ASA6...***	60						
7	**ASA7...***	85						
8	**ASA8...***	110						

[1]) The use of stacking bolts necessitates the use of locking plates in the construction assembly.
[2]) When assembling solid rubber clamps, cover plates, hexagon screws and locking washers must be used.
[3]) Material = stainless steel 1.4571

*Please add the suffix below according to the surface/material required.

Order code suffixes		
Surface/material	**Suffix**	Example
Steel, zinc plated, Cr(VI)-free	**X**	DPA0X
Stainless Steel 1.4571	**4571X**	DPA04571X

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Tube clamps series A (Light construction series) – Complete range

Order codes for clamp halves:

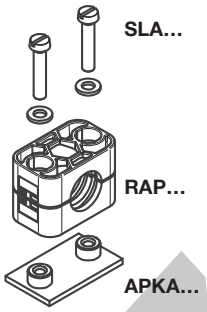
Material	Interior surface	Order code
Polypropylene	grooved	**RAP**
	smooth	**RAPG**
Polyamide	grooved	**RAN**
	smooth	**RANG**
Rubber	smooth	**RAVG**[1)]
Aluminium	grooved	**RAA**[2)]

(Please exchange as required standard abbreviation RAP in column for "Order code")

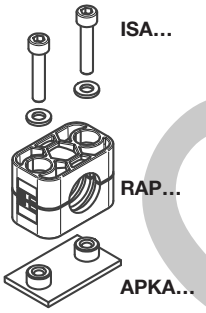
For flame- or corrosion retardant materials, please refer to page S5.

The steel parts of kits 1, 2 and 3 have the following surfaces:
Screws, bushes, cover plates = Cr(VI)-free galvanized
Welding plate = phosphated
Other compositions available on request.

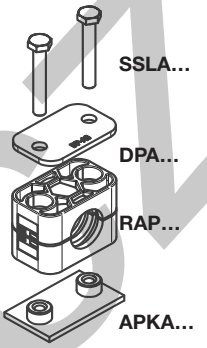
2 clamp halves, weld plate **short,** slot head bolts and bushes



2 clamp halves, weld plate **short,** socket head bolts and bushes



2 clamp halves, weld plate **short,** cover plate hex. head bolts



clamp size	Tube O.D. mm	Tube NB	Tube O.D.	Order code	Order code	Order code
0[3)]	4.0			**RAP1-004**	**RAP2–004**	**RAP3–004**
	6.0			**RAP1–006**	**RAP2–006**	**RAP3–006**
	6.4		1/4	**RAP1–006.4**	**RAP2–006.4**	**RAP3–006.4**
	8.0		5/16	**RAP1–008**	**RAP2–008**	**RAP3–008**
	9.5		3/8	**RAP1–009.5**	**RAP2–009.5**	**RAP3–009.5**
	10.0	G 1/8		**RAP1–010**	**RAP2–010**	**RAP3–010**
	12.0			**RAP1–012**	**RAP2–012**	**RAP3–012**
1	4.0			**RAP1-104**	**RAP2–104**	**RAP3–104**
	6.0			**RAP1–106**	**RAP2–106**	**RAP3–106**
	6.4		1/4	**RAP1–106.4**	**RAP2–106.4**	**RAP3–106.4**
	8.0		5/16	**RAP1–108**	**RAP2–108**	**RAP3–108**
	9.5		3/8	**RAP1–109.5**	**RAP2–109.5**	**RAP3–109.5**
	10.0	G 1/8		**RAP1–110**	**RAP2–110**	**RAP3–110**
	12.0			**RAP1–112**	**RAP2–112**	**RAP3–112**
2	12.7		1/2	**RAP1–212.7**	**RAP2–212.7**	**RAP3–212.7**
	13.5	G 1/4		**RAP1–213.5**	**RAP2–213.5**	**RAP3–213.5**
	14.0			**RAP1–214**	**RAP2–214**	**RAP3–214**
	15.0			**RAP1–215**	**RAP2–215**	**RAP3–215**
	16.0		5/8	**RAP1–216**	**RAP2–216**	**RAP3–216**
	17.2	G 3/8		**RAP1–217.2**	**RAP2–217.2**	**RAP3–217.2**
	18.0			**RAP1–218**	**RAP2–218**	**RAP3–218**
3	19.0		3/4	**RAP1–319**	**RAP2–319**	**RAP3–319**
	20.0			**RAP1–320**	**RAP2–320**	**RAP3–320**
	21.3	G 1/2		**RAP1–321.3**	**RAP2–321.3**	**RAP3–321.3**
	22.0			**RAP1–322**	**RAP2–322**	**RAP3–322**
	23.0			**RAP1–323**	**RAP2–323**	**RAP3–323**
	25.0		1	**RAP1–325**	**RAP2–325**	**RAP3–325**
	25.4			**RAP1-325.4**	**RAP2–325.4**	**RAP3–325.4**
4	26.9	G 3/4		**RAP1–426.9**	**RAP2–426.9**	**RAP3–426.9**
	28.0			**RAP1–428**	**RAP2–428**	**RAP3–428**
	30.0			**RAP1–430**	**RAP2–430**	**RAP3–430**
5	32.0		1 1/4	**RAP1–532**	**RAP2–532**	**RAP3–532**
	33.7	G 1		**RAP1–533.7**	**RAP2–533.7**	**RAP3–533.7**
	35.0			**RAP1–535**	**RAP2–535**	**RAP3–535**
	38.0		1 1/2	**RAP1–538**	**RAP2–538**	**RAP3–538**
	40.0			**RAP1–540**	**RAP2–540**	**RAP3–540**
	42.0	G 1 1/4		**RAP1–542**	**RAP2–542**	**RAP3–542**
6	44.5		1 3/4	**RAP1–644.5**	**RAP2–644.5**	**RAP3–644.5**
	45.0			**RAP1–645**	**RAP2–645**	**RAP3–645**
	48.0	G 1 1/2		**RAP1–648**	**RAP2–648**	**RAP3–648**
	50.0			**RAP1–650**	**RAP2–650**	**RAP3–650**
	50.8		2	**RAP1–650.8**	**RAP2–650.8**	**RAP3–650.8**
	52.0			**RAP1–652**	**RAP2–652**	**RAP3–652**
	54.0			**RAP1-654**	**RAP2–654**	**RAP3-–654**
	55.0			**RAP1–655**	**RAP2–655**	**RAP3–655**
	57.0			**RAP1–657**	**RAP2–657**	**RAP3–657**

Continuation see next page …

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Tube clamps series A (Light construction series) – Complete range

Order codes for clamp halves:

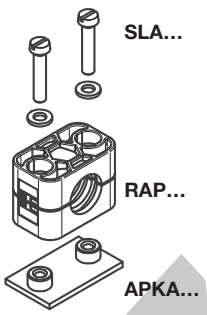
Material	Interior surface	Order code
Polypropylene	grooved	**RAP**
	smooth	**RAPG**
Polyamide	grooved	**RAN**
	smooth	**RANG**
Rubber	smooth	**RAVG**[1)]
Aluminium	grooved	**RAA**[2)]

(Please exchange as required standard abbreviation RAP in column for "Order code")

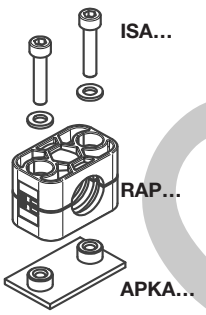
For flame- or corrosion retardant materials, please refer to page S5.

The steel parts of kits 1, 2 and 3 have the following surfaces:
Screws, bushes, cover plates = Cr(VI)-free galvanized
Welding plate = phosphated
Other compositions available on request.

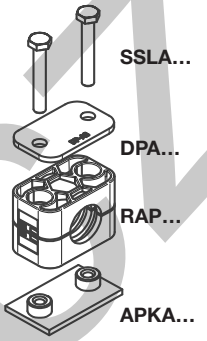
2 clamp halves, weld plate **short,** slot head bolts and bushes



2 clamp halves, weld plate **short,** socket head bolts and bushes



2 clamp halves, weld plate **short,** cover plate hex. head bolts



clamp size	Tube O.D. mm	Tube NB	Tube O.D.	Order code	Order code	Order code
7	57.2	G 2	2 1/4	**RAP1–757.2**	**RAP2–757.2**	**RAP3–757.2**
	60.3			**RAP1–760.3**	**RAP2–760.3**	**RAP3–760.3**
	63.5		2 1/2	**RAP1–763.5**	**RAP2–763.5**	**RAP3–763.5**
	70.0		2 3/4	**RAP1–770**	**RAP2–770**	**RAP3–770**
	73.0			**RAP1–773**	**RAP2–773**	**RAP3–773**
	76.1	G 2 1/2	3	**RAP1–776.1**	**RAP2–776.1**	**RAP3–776.1**
8	88.9	G 3		**RAP1–888.9**	**RAP2–888.9**	**RAP3–888.9**
	101.8		4	**RAP1–8101.8**	**RAP2–8101.8**	**RAP3–8101.8**

Delivery in unassembled individual components.

[1)] When assembling solid rubber clamps, cover plates, hexagon screws and locking washers must be used.

[2)] Aluminium size 0-6.

[3)] Contrary to the illustration size 0 clamps are secured by only one screw.

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Tube clamps series A (Light construction series) – Complete range

Order codes for clamp halves:

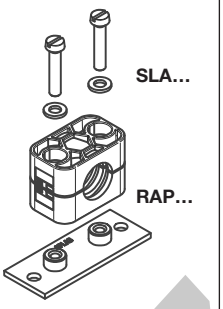
Material	Interior surface	Order code
Polypropylene	grooved	**RAP**
	smooth	**RAPG**
Polyamide	grooved	**RAN**
	smooth	**RANG**
Rubber	smooth	**RAVG**[1)]
Aluminium	grooved	**RAA**[2)]

(Please exchange as required standard abbreviation RAP in column for "Order code")

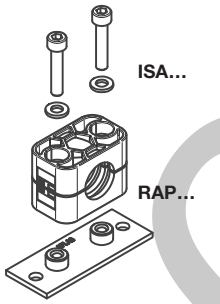
For flame- or corrosion retardant materials, please refer to page S5.

The steel parts of kits 4, 5 and 6 have the following surfaces:
Screws, bushes, cover plates = Cr(VI)-free galvanized
Welding plate = phosphated
Other compositions available on request.

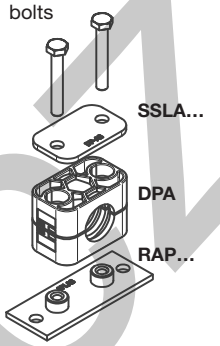
2 clamp halves, weld/ screw plate, slot head bolts and bushes



2 clamp halves, weld/ screw plate, socket head bolts and bushes



2 clamp halves, weld/ screw plate, cover plate and hex. head bolts



clamp size	Tube O.D. mm	Tube NB	Tube O.D.	Order code	Order code	Order code
0[3)]	4.0			**RAP4–004**	**RAP5–004**	**RAP6–004**
	6.0			**RAP4–006**	**RAP5–006**	**RAP6–006**
	6.4		1/4	**RAP4–006.4**	**RAP5–006.4**	**RAP6–006.4**
	8.0		5/16	**RAP4–008**	**RAP5–008**	**RAP6–008**
	9.5		3/8	**RAP4–009.5**	**RAP5–009.5**	**RAP6–009.5**
	10.0	G 1/8		**RAP4–010**	**RAP5–010**	**RAP6–010**
	12.0			**RAP4–012**	**RAP5–012**	**RAP6–012**
1	4.0			**RAP4–104**	**RAP5–104**	**RAP6–104**
	6.0			**RAP4–106**	**RAP5–106**	**RAP6–106**
	6.4		1/4	**RAP4–106.4**	**RAP5–106.4**	**RAP6–106.4**
	8.0		5/16	**RAP4–108**	**RAP5–108**	**RAP6–108**
	9.5		3/8	**RAP4–109.5**	**RAP5–109.5**	**RAP6–109.5**
	10.0	G 1/8		**RAP4–110**	**RAP5–110**	**RAP6–110**
	12.0			**RAP4–112**	**RAP5–112**	**RAP6–112**
2	12.7		1/2	**RAP4–212.7**	**RAP5–212.7**	**RAP6–212.7**
	13.5	G 1/4		**RAP4–213.5**	**RAP5–213.5**	**RAP6–213.5**
	14.0			**RAP4–214**	**RAP5–214**	**RAP6–214**
	15.0			**RAP4–215**	**RAP5–215**	**RAP6–215**
	16.0		5/8	**RAP4–216**	**RAP5–216**	**RAP6–216**
	17.2	G 3/8		**RAP4–217.2**	**RAP5–217.2**	**RAP6–217.2**
	18.0			**RAP4–218**	**RAP5–218**	**RAP6–218**
3	19.0		3/4	**RAP4–319**	**RAP5–319**	**RAP6–319**
	20.0			**RAP4–320**	**RAP5–320**	**RAP6–320**
	21.3	G 1/2		**RAP4–321.3**	**RAP5–321.3**	**RAP6–321.3**
	22.0			**RAP4–322**	**RAP5–322**	**RAP6–322**
	23.0			**RAP4–323**	**RAP5–323**	**RAP6–323**
	25.0			**RAP4–325**	**RAP5–325**	**RAP6–325**
	25.4		1	**RAP4–325.4**	**RAP5–325.4**	**RAP6–325.4**
4	26.9	G 3/4		**RAP4–426.9**	**RAP5–426.9**	**RAP6–426.9**
	28.0			**RAP4–428**	**RAP5–428**	**RAP6–428**
	30.0			**RAP4–430**	**RAP5–430**	**RAP6–430**
5	32.0		1 1/4	**RAP4–532**	**RAP5–532**	**RAP6–532**
	33.7	G 1		**RAP4–533.7**	**RAP5–533.7**	**RAP6–533.7**
	35.0			**RAP4–535**	**RAP5–535**	**RAP6–535**
	38.0		1 1/2	**RAP4–538**	**RAP5–538**	**RAP6–538**
	40.0			**RAP4–540**	**RAP5–540**	**RAP6–540**
	42.0	G 1 1/4		**RAP4–542**	**RAP5–542**	**RAP6–542**
6	44.5		1 3/4	**RAP4–644.5**	**RAP5–644.5**	**RAP6–644.5**
	45.0			**RAP4–645**	**RAP5–645**	**RAP6–645**
	48.0	G 1 1/2		**RAP4–648**	**RAP5–648**	**RAP6–648**
	50.0			**RAP4–650**	**RAP5–650**	**RAP6–650**
	50.8			**RAP4–650.8**	**RAP5–650.8**	**RAP6–650.8**
	52.0		2	**RAP4–652**	**RAP5–652**	**RAP6–652**
	54.0			**RAP4–654**	**RAP5–654**	**RAP6–654**
	55.0			**RAP4–655**	**RAP5–655**	**RAP6–655**
	57.0			**RAP4–657**	**RAP5–657**	**RAP6–657**

Continuation see next page …

Tube clamps series A (Light construction series) – Complete range

Order codes for clamp halves:

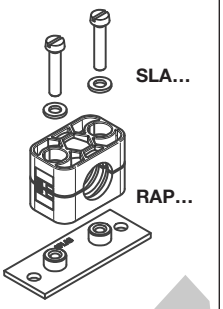
Material	Interior surface	Order code
Polypropylene	grooved	**RAP**
	smooth	**RAPG**
Polyamide	grooved	**RAN**
	smooth	**RANG**
Rubber	smooth	**RAVG**[1)]
Aluminium	grooved	**RAA**[2)]

(Please exchange as required standard abbreviation RAP in column for "Order code")

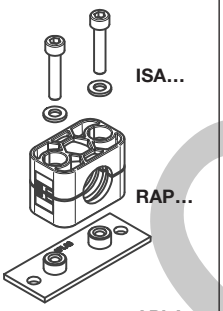
For flame- or corrosion retardant materials, please refer to page S5.

The steel parts of kits 4, 5 and 6 have the following surfaces:
Screws, bushes, cover plates = Cr(VI)-free galvanized
Welding plate = phosphated
Other compositions available on request.

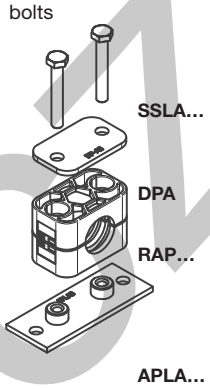
2 clamp halves, weld/ screw plate, slot head bolts and bushes



2 clamp halves, weld/ screw plate, socket head bolts and bushes



2 clamp halves, weld/ screw plate, cover plate and hex. head bolts



clamp size	Tube O.D. mm	Tube NB	Tube O.D.	Order code	Order code	Order code
7	57.2	G 2	2 1/4	**RAP4–757.2**	**RAP5–757.2**	**RAP6–757.2**
	60.3			**RAP4–760.3**	**RAP5–760.3**	**RAP6–760.3**
	63.5		2 1/2	**RAP4–763.5**	**RAP5–763.5**	**RAP6–763.5**
	70.0		2 3/4	**RAP4–770**	**RAP5–770**	**RAP6–770**
	73.0			**RAP4–773**	**RAP5–773**	**RAP6–773**
	76.1	G 2 1/2	3	**RAP4–776.1**	**RAP5–776.1**	**RAP6–776.1**
8	88.9	G 3	3 1/2	**RAP4–888.9**	**RAP5–888.9**	**RAP6–888.9**
	101.8		4	**RAP4–8101.8**	**RAP5–8101.8**	**RAP6–8101.8**

Delivery in unassembled individual components.

[1)] When assembling solid rubber clamps, cover plates, hexagon screws and locking washers must be used.

[2)] Aluminium size 0-6.

[3)] Contrary to the illustration size 0 clamps are secured by only one screw.

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Tube clamps series A (Light construction series) – Complete range

Order codes for clamp halves:

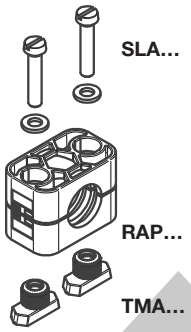
Material	Interior surface	Order code
Polypropylene	grooved	**RAP**
	smooth	**RAPG**
Polyamide	grooved	**RAN**
	smooth	**RANG**
Rubber	smooth	**RAVG**[1)]
Aluminium	grooved	**RAA**[2)]

(Please exchange as required standard abbreviation RAP in column for "Order code")

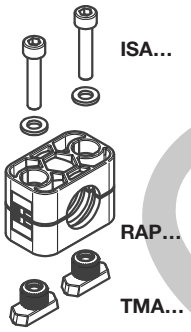
For flame- or corrosion retardant materials, please refer to page S5.

The steel parts of kits 9, 10 and 12 have the following surfaces:
Screws, bushes, cover plates = Cr(VI)-free galvanized
Welding plate = phosphated
Other compositions available on request.

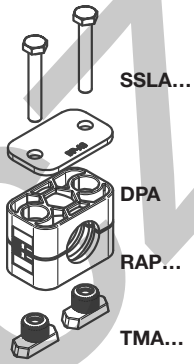
2 clamp halves, rail nuts, slot head bolts and bushes



2 clamp halves, rail nuts, socket head bolts and bushes



2 clamp halves, rail nuts, cover plate and hex. head bolts



clamp size	Tube O.D. mm	Tube NB	Tube O.D.	Order code	Order code	Order code
0[3)]	4.0	G 1/8	1/4	**RAP9–004**	**RAP10–004**	**RAP12–004**
	6.0			**RAP9–006**	**RAP10–006**	**RAP12–006**
	6.4			**RAP9–006.4**	**RAP10–006.4**	**RAP12–006.4**
	8.0		5/16	**RAP9–008**	**RAP10–008**	**RAP12–008**
	9.5		3/8	**RAP9–009.5**	**RAP10–009.5**	**RAP12–009.5**
	10.0			**RAP9–010**	**RAP10–010**	**RAP12–010**
	12.0			**RAP9–012**	**RAP10–012**	**RAP12–012**
1	4.0	G 1/8	1/4	**RAP9–104**	**RAP10–104**	**RAP12–104**
	6.0			**RAP9–106**	**RAP10–106**	**RAP12–106**
	6.4			**RAP9–106.4**	**RAP10–106.4**	**RAP12–106.4**
	8.0		5/16	**RAP9–108**	**RAP10–108**	**RAP12–108**
	9.5		3/8	**RAP9–109.5**	**RAP10–109.5**	**RAP12–109.5**
	10.0			**RAP9–110**	**RAP10–110**	**RAP12–110**
	12.0			**RAP9–112**	**RAP10–112**	**RAP12–112**
2	12.7	G 1/4	1/2	**RAP9–212.7**	**RAP10–212.7**	**RAP12–212.7**
	13.5			**RAP9–213.5**	**RAP10–213.5**	**RAP12–213.5**
	14.0			**RAP9–214**	**RAP10–214**	**RAP12–214**
	15.0			**RAP9–215**	**RAP10–215**	**RAP12–215**
	16.0		5/8	**RAP9–216**	**RAP10–216**	**RAP12–216**
	17.2	G 3/8		**RAP9–217.2**	**RAP10–217.2**	**RAP12–217.2**
	18.0			**RAP9–218**	**RAP10–218**	**RAP12–218**
3	19.0	G 1/2	3/4	**RAP9–319**	**RAP10–319**	**RAP12–319**
	20.0			**RAP9–320**	**RAP10–320**	**RAP12–320**
	21.3			**RAP9–321.3**	**RAP10–321.3**	**RAP12–321.3**
	22.0			**RAP9–322**	**RAP10–322**	**RAP12–322**
	23.0			**RAP9–323**	**RAP10–323**	**RAP12–323**
	25.0			**RAP9–325**	**RAP10–325**	**RAP12–325**
	25.4		1	**RAP9–325.4**	**RAP10–325.4**	**RAP12–325.4**
4	26.9	G 3/4		**RAP9–426.9**	**RAP10–426.9**	**RAP12–426.9**
	28.0			**RAP9–428**	**RAP10–428**	**RAP12–428**
	30.0			**RAP9–430**	**RAP10–430**	**RAP12–430**
5	32.0	G 1	1 1/4	**RAP9–532**	**RAP10–532**	**RAP12–532**
	33.7			**RAP9–533.7**	**RAP10–533.7**	**RAP12–533.7**
	35.0			**RAP9–535**	**RAP10–535**	**RAP12–535**
	38.0		1 1/2	**RAP9–538**	**RAP10–538**	**RAP12–538**
	40.0			**RAP9–540**	**RAP10–540**	**RAP12–540**
	42.0	G 1 1/4		**RAP9–542**	**RAP10–542**	**RAP12–542**
6	44.5	G 1 1/2	1 3/4	**RAP9–644.5**	**RAP10–644.5**	**RAP12–644.5**
	45.0			**RAP9–645**	**RAP10–645**	**RAP12–645**
	48.0			**RAP9–648**	**RAP10–648**	**RAP12–648**
	50.0			**RAP9–650**	**RAP10–650**	**RAP12–650**
	50.8		2	**RAP9–650.8**	**RAP10–650.8**	**RAP12–650.8**
	52.0			**RAP9–652**	**RAP10–652**	**RAP12–652**
	54.0			**RAP9–654**	**RAP10–654**	**RAP12–654**
	55.0			**RAP9–655**	**RAP10–655**	**RAP12–655**
	57.0			**RAP9–657**	**RAP10–657**	**RAP12–657**

Continuation see next page …

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Tube clamps series A (Light construction series) – Complete range

Order codes for clamp halves:

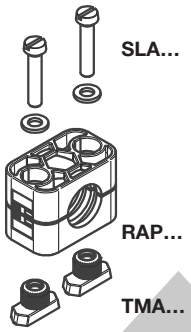
Material	Interior surface	Order code
Polypropylene	grooved	**RAP**
	smooth	**RAPG**
Polyamide	grooved	**RAN**
	smooth	**RANG**
Rubber	smooth	**RAVG**[1)]
Aluminium	grooved	**RAA**[2)]

(Please exchange as required standard abbreviation RAP in column for "Order code")

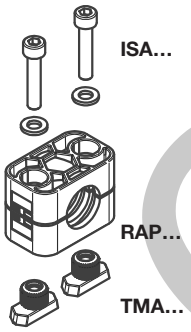
For flame- or corrosion retardant materials, please refer to page S5.

The steel parts of kits 9, 10 and 12 have the following surfaces:
Screws, bushes, cover plates = Cr(VI)-free galvanized
Welding plate = phosphated
Other compositions available on request.

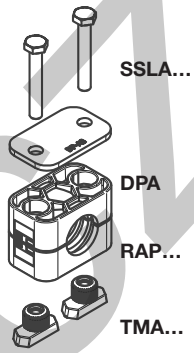
2 clamp halves, rail nuts, slot head bolts and bushes



2 clamp halves, rail nuts, socket head bolts and bushes



2 clamp halves, rail nuts, cover plate and hex. head bolts



clamp size	Tube O.D. mm	Tube NB	Tube O.D.	Order code	Order code	Order code
7	57.2	G 2	2 1/4	**RAP9–757.2**	**RAP10–757.2**	**RAP12–757.2**
	60.3			**RAP9–760.3**	**RAP10–760.3**	**RAP12–760.3**
	63.5		2 1/2	**RAP9–763.5**	**RAP10–763.5**	**RAP12–763.5**
	70.0		2 3/4	**RAP9–770**	**RAP10–770**	**RAP12–770**
	73.0			**RAP9–773**	**RAP10–773**	**RAP12–773**
	76.1	G 2 1/2	3	**RAP9–776.1**	**RAP10–776.1**	**RAP12–776.1**
8	88.9	G 3	3 1/2	**RAP9–888.9**	**RAP10–888.9**	**RAP12–888.9**
	101.8		4	**RAP9–8101.8**	**RAP10–8101.8**	**RAP12–8101.8**

Delivery in unassembled individual components.

[1)] When assembling solid rubber clamps, cover plates, hexagon screws and locking washers must be used.

[2)] Aluminium size 0-6.

[3)] Contrary to the illustration size 0 clamps are secured by only one screw.

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S

Tube clamps series A – Complete range

Order codes for clamp halves:

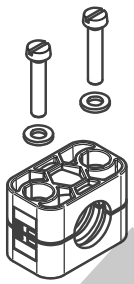
Material	Interior surface	Order code
Polypropylene	grooved	**RAP**
	smooth	**RAPG**
Polyamide	grooved	**RAN**
	smooth	**RANG**
Rubber	smooth	**RAVG**[1)]
Aluminium	grooved	**RAA**[2)]

(Please exchange as required standard abbreviation RAP in column for "Order code")

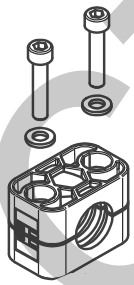
For flame- or corrosion retardant materials, please refer to page S5.

The steel parts of kits 13 and 14 have the following surfaces:
Screws, bushes, cover plates = Cr(VI)-free galvanized
Welding plate = phosphated
Other compositions available on request.

2 clamp halves, slot heads and bushes



2 clamp halves, socket head bolts and bushes



clamp size	Tube O.D. mm	Tube NB	Tube O.D.	Order code	Order code
0[3)]	4.0			**RAP13–004**	**RAP14–004**
	6.0			**RAP13–006**	**RAP14–006**
	6.4		1/4	**RAP13–006.4**	**RAP14–006.4**
	8.0		5/16	**RAP13–008**	**RAP14–008**
	9.5		3/8	**RAP13–009.5**	**RAP14–009.5**
	10.0	G 1/8		**RAP13–010**	**RAP14–010**
	12.0			**RAP13–012**	**RAP14–012**
1	4.0			**RAP13–104**	**RAP14–104**
	6.0			**RAP13–106**	**RAP14–106**
	6.4		1/4	**RAP13–106.4**	**RAP14–106.4**
	8.0		5/16	**RAP13–108**	**RAP14–108**
	9.5		3/8	**RAP13–109.5**	**RAP14–109.5**
	10.0	G 1/8		**RAP13–110**	**RAP14–110**
	12.0			**RAP13–112**	**RAP14–112**
2	12.7		1/2	**RAP13–212.7**	**RAP14–212.7**
	13.5	G 1/4		**RAP13–213.5**	**RAP14–213.5**
	14.0			**RAP13–214**	**RAP14–214**
	15.0			**RAP13–215**	**RAP14–215**
	16.0		5/8	**RAP13–216**	**RAP14–216**
	17.2	G 3/8		**RAP13–217.2**	**RAP14–217.2**
	18.0			**RAP13–218**	**RAP14–218**
3	19.0		3/4	**RAP13–319**	**RAP14–319**
	20.0			**RAP13–320**	**RAP14–320**
	21.3	G 1/2		**RAP13–321.3**	**RAP14–321.3**
	22.0			**RAP13–322**	**RAP14–322**
	23.0			**RAP13–323**	**RAP14–323**
	25.0			**RAP13–325**	**RAP14–325**
	25.4		1	**RAP13–325.4**	**RAP14–325.4**
4	26.9	G 3/4		**RAP13–426.9**	**RAP14–426.9**
	28.0			**RAP13–428**	**RAP14–428**
	30.0			**RAP13–430**	**RAP14–430**
5	32.0		1 1/4	**RAP13–532**	**RAP14–532**
	33.7	G 1		**RAP13–533.7**	**RAP14–533.7**
	35.0			**RAP13–535**	**RAP14–535**
	38.0		1 1/2	**RAP13–538**	**RAP14–538**
	40.0			**RAP13–540**	**RAP14–540**
	42.0	G 1 1/4		**RAP13–542**	**RAP14–542**
6	44.5		1 3/4	**RAP13–644.5**	**RAP14–644.5**
	45.0			**RAP13–645**	**RAP14–645**
	48.0	G 1 1/2		**RAP13–648**	**RAP14–648**
	50.0			**RAP13–650**	**RAP14–650**
	50.8		2	**RAP13–650.8**	**RAP14–650.8**
	52.0			**RAP13–652**	**RAP14–652**
	54.0			**RAP13–654**	**RAP14–654**
	55.0			**RAP13–655**	**RAP14–655**
	57.0			**RAP13–657**	**RAP14–657**

Continuation see next page …

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Tube clamps series A – Complete range

Order codes for clamp halves:

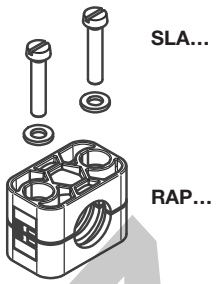
Material	Interior surface	Order code
Polypropylene	grooved	**RAP**
	smooth	**RAPG**
Polyamide	grooved	**RAN**
	smooth	**RANG**
Rubber	smooth	**RAVG**[1)]
Aluminium	grooved	**RAA**[2)]

(Please exchange as required standard abbreviation RAP in column for "Order code")

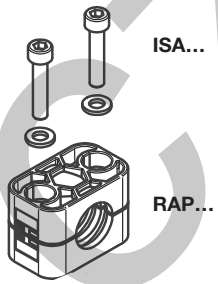
For flame- or corrosion retardant materials, please refer to page S5.

The steel parts of kits 13 and 14 have the following surfaces:
Screws, bushes, cover plates = Cr(VI)-free galvanized
Welding plate = phosphated
Other compositions available on request.

2 clamp halves, slot heads and bushes



2 clamp halves, socket head bolts and bushes



clamp size	Tube O.D. mm	Tube NB	Tube O.D.	Order code	Order code
7	57.2	G 2	2 1/4	**RAP13-757.2**	**RAP14-757.2**
	60.3			**RAP13-760.3**	**RAP14-760.3**
	63.5		2 1/2	**RAP13-763.5**	**RAP14-763.5**
	70.0		2 3/4	**RAP13-770**	**RAP14-770**
	73.0			**RAP13-773**	**RAP14-773**
	76.1	G 2 1/2	3	**RAP13-776.1**	**RAP14-776.1**
8	88.9	G3	3 1/2	**RAP13-888.9**	**RAP14-888.9**
	101.8		4	**RAP13-8101.8**	**RAP14-8101.8**

Delivery in unassembled individual components.

[1)] When assembling solid rubber clamps, cover plates, hexagon screws and locking washers must be used.

[2)] Aluminium size 0-6.

[3)] Contrary to the illustration size 0 clamps are secured by only one screw.

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Tube clamps series A – Complete range

Order codes for clamp halves:

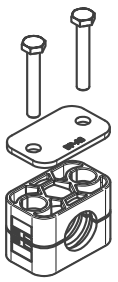
Material	Interior surface	Order code
Polypropylene	grooved	**RAP**
	smooth	**RAPG**
Polyamide	grooved	**RAN**
	smooth	**RANG**
Rubber	smooth	**RAVG**[1)]
Aluminium	grooved	**RAA**[2)]

(Please exchange as required standard abbreviation RAP in column for "Order code")

For flame- or corrosion retardant materials, please refer to page S5.

The steel parts of kits 16 and 18 have the following surfaces:
Screws, bushes, cover plates = Cr(VI)-free galvanized
Welding plate = phosphated
Other compositions available on request.

2 clamp halves, cover plate and hex. head bolts

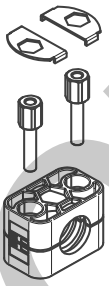


SSLA…

DPA…

RAP…

2 clamp halves, stacking bolts and locking plate



SBA…

ASA…

RAP…

clamp size	Tube O.D. mm	Tube NB	Tube O.D.	Order code	Order code
0[3)]	4.0			**RAP16–004**	**RAP18–004**
	6.0			**RAP16–006**	**RAP18–006**
	6.4		1/4	**RAP16–006.4**	**RAP18–006.4**
	8.0		5/16	**RAP16–008**	**RAP18–008**
	9.5		3/8	**RAP16–009.5**	**RAP18–009.5**
	10.0	G 1/8		**RAP16–010**	**RAP18–010**
	12.0			**RAP16–012**	**RAP18–012**
1	4.0			**RAP16–104**	**RAP18–104**
	6.0			**RAP16–106**	**RAP18–106**
	6.4		1/4	**RAP16–106.4**	**RAP18–106.4**
	8.0		5/16	**RAP16–108**	**RAP18–108**
	9.5		3/8	**RAP16–109.5**	**RAP18–109.5**
	10.0	G 1/8		**RAP16–110**	**RAP18–110**
	12.0			**RAP16–112**	**RAP18–112**
2	12.7		1/2	**RAP16–212.7**	**RAP18–212.7**
	13.5	G 1/4		**RAP16–213.5**	**RAP18–213.5**
	14.0			**RAP16–214**	**RAP18–214**
	15.0			**RAP16–215**	**RAP18–215**
	16.0		5/8	**RAP16–216**	**RAP18–216**
	17.2	G 3/8		**RAP16–217.2**	**RAP18–217.2**
	18.0			**RAP16–218**	**RAP18–218**
3	19.0		3/4	**RAP16–319**	**RAP18–319**
	20.0			**RAP16–320**	**RAP18–320**
	21.3	G 1/2		**RAP16–321.3**	**RAP18–321.3**
	22.0			**RAP16–322**	**RAP18–322**
	23.0			**RAP16–323**	**RAP18–323**
	25.0			**RAP16–325**	**RAP18–325**
	25.4		1	**RAP16–325.4**	**RAP18–325.4**
4	26.9	G 3/4		**RAP16–426.9**	**RAP18–426.9**
	28.0			**RAP16–428**	**RAP18–428**
	30.0			**RAP16–430**	**RAP18–430**
5	32.0		1 1/4	**RAP16–532**	**RAP18–532**
	33.7	G 1		**RAP16–533.7**	**RAP18–533.7**
	35.0			**RAP16–535**	**RAP18–535**
	38.0		1 1/2	**RAP16–538**	**RAP18–538**
	40.0			**RAP16–540**	**RAP18–540**
	42.0	G 1 1/4		**RAP16–542**	**RAP18–542**
6	44.5		1 3/4	**RAP16–644.5**	**RAP18–644.5**
	45.0			**RAP16–645**	**RAP18–645**
	48.0	G 1 1/2		**RAP16–648**	**RAP18–648**
	50.0			**RAP16–650**	**RAP18–650**
	50.8		2	**RAP16–650.8**	**RAP18–650.8**
	52.0			**RAP16–652**	**RAP18–652**
	54.0			**RAP16–654**	**RAP18–654**
	55.0			**RAP16–655**	**RAP18–655**
	57.0			**RAP16–657**	**RAP18–657**

Continuation see next page …

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Tube clamps series A – Complete range

Order codes for clamp halves:

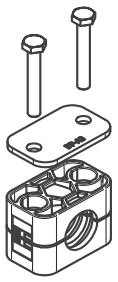
Material	Interior surface	Order code
Polypropylene	grooved	**RAP**
	smooth	**RAPG**
Polyamide	grooved	**RAN**
	smooth	**RANG**
Rubber	smooth	**RAVG**[1)]
Aluminium	grooved	**RAA**[2)]

(Please exchange as required standard abbreviation RAP in column for "Order code")

For flame- or corrosion retardant materials, please refer to page S5.

The steel parts of kits 16 and 18 have the following surfaces:
Screws, bushes, cover plates = Cr(VI)-free galvanized
Welding plate = phosphated
Other compositions available on request.

2 clamp halves, cover plate and hex. head bolts

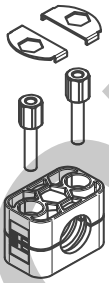


SSLA

DPA…

RAP…

2 clamp halves, stacking bolts and locking plate



SBA…

ASA…

RAP…

clamp size	Tube O.D. mm	Tube NB	Tube O.D.	Order code	Order code
7	57.2	G 2	2 1/4	**RAP16–757.2**	**RAP18–757.2**
	60.3			**RAP16–760.3**	**RAP18–760.3**
	63.5		2 1/2	**RAP16–763.5**	**RAP18–763.5**
	70.0		2 3/4	**RAP16–770**	**RAP18–770**
	73.0			**RAP16–773**	**RAP18–773**
	76.1	G 2 1/2	3	**RAP16–776.1**	**RAP18–776.1**
8	88.9	G 3	3 1/2	**RAP16–888.9**	**RAP18–888.9**
	101.8		4	**RAP16–8101.8**	**RAP18–8101.8**

Delivery in unassembled individual components.

[1)] When assembling solid rubber clamps, cover plates, hexagon screws and locking washers must be used.

[2)] Aluminium sizes 0-6.

[3)] Contrary to the illustration size 0 clamps are secured by only one screw.

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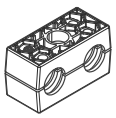
Tube clamps series B (Twin-tube clamps) – Components

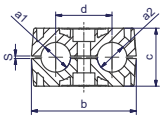
DIN 3015, part 3

Order codes for clamp halves:

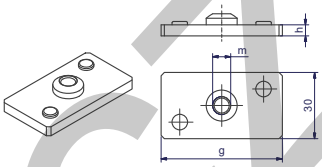
Material	Interior surface	Order code
Polypropylene	grooved	**RBP**
	smooth	**RBPG**
Polyamide	grooved	**RBN**
	smooth	**RBNG**
Rubber	smooth	**RBVG**[1]

(Please exchange as required standard abbreviation RBP in column for "clamp halves")
For flame- or corrosion retardant materials, please refer to page S5.





Width: 30 mm



clamp size	Tube O.D. mm	Tube NB	Tube O.D.	1 part 2 clamp halves[2]) RBP… Order code	dimensions: b	c	d	s	weld plate with locking device APB… Order code	dimensions: g	m	h
1	6.0 6.4 8.0 9.5 10.0 12.0	G 1/8	1/4 5/16 3/8	**RBP106X** **RBP106.4X** **RBP108X** **RBP109.5X** **RBP110X** **RBP112X**	36	27.0	20	1.0	**APB1...***	37	M6	3
2	12.7 13.5 14.0 15.0 16.0 17.2 18.0	G 1/4 G 3/8	1/2 5/8	**RBP212.7X** **RBP213.5X** **RBP214X** **RBP215X** **RBP216X** **RBP217.2X** **RBP218X**	53	27.4	29	1.2	**APB2...***	55	M8	5
3	19.0 20.0 21.3 22.0 25.0 25.4	G 1/2	3/4 1	**RBP319X** **RBP320X** **RBP321.3X** **RBP322X** **RBP325X** **RBP325.4X**	67	37.0	36	1.6	**APB3...***	70	M8	5
4	26.9 28.0 30.0	G 3/4		**RBP426.9X** **RBP428X** **RBP430X**	82	42.0	45	2.0	**APB4...***	85	M8	5
5	32.0 33.7 35.0 38.0 40.0 42.0	G 1 G 1 1/4	1 1/4 1 1/2	**RBP532X** **RBP533.7X** **RBP535X** **RBP538X** **RBP540X** **RBP542X**	106	54.0	56	2.0	**APB5...***	110	M8	5

[1]) When assembling solid rubber clamps, cover plates, hexagon screws and locking washers must be used.
[2]) Twin-tube clamps with different outer tube diameters upon request.

*Please add the suffix below according to the surface/material required.

Order code suffixes		
Surface/material	**Suffix**	Example
Steel, phosphated	**X**	APB1X
Steel, zinc plated, Cr(VI)-free	**VZX**	APB1VZX
Stainless Steel 1.4571	**4571X**	APB14571X

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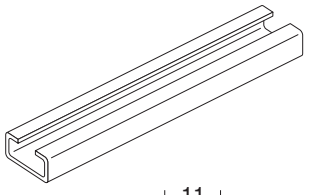
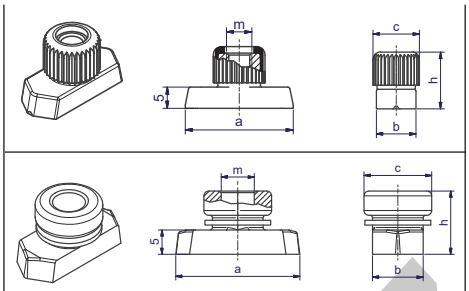
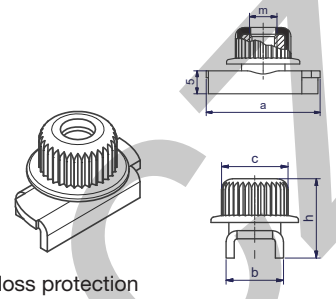
Tube clamps series B (Twin-tube clamps) – Components

DIN 3015, part 3



1 or 2 mtr





With loss protection
(See page S54).

clamp size	weld plate, angled		mounting rail nut						mounting rail nut					
	TS...A/B Order code	dimensions: h	**TM** Order code	dimensions: a	b	c	m	h	**TMA/TMB1...** Order code	dimensions: a	b	c	m	h
1	**TS11A/B1...*** **TS11A/B2...*** **TS14A/B1...*** **TS14B/B2...*** **TS30A/B1...*** **TS30B/B2...***	TS11: TS14: TS30:	**TMA/TMB1VERZX** **TMA/TMB1/4571X**	25.4	10.4	12	M6	14.5	**TMA/TMB1WLPVZX** **TMA/TMB1WLP71X**	25.4	10.4	12	M6	14.5
2			**TMB2VZX** **TMB24571X**	25.4	10.4	14	M8	13.0						
3														
4														
5														

*Please add the suffix below according to the surface/material required.

Order code suffixes		
Surface/material	**Suffix**	Example
Steel, phosphated	**X**	TS11A/B1X
Steel, zinc plated, Cr(VI)-free	**VZX**	TS11A/B1VZX
Stainless Steel 1.4571	**71X**	TS11A/B171X

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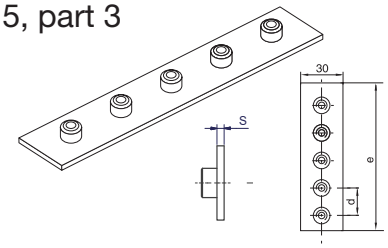
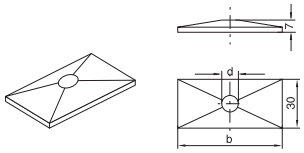
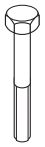
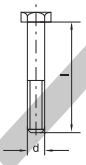
Tube clamps series B (Twin-tube clamps) – Components

DIN 3015, part 3



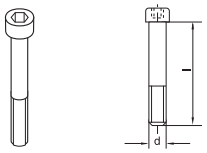






DIN 931/933

clamp size	weld plate angled (5 clamps)				cover plate			hexagonal screws	
	APR B... Order code	dimensions: d	e	s	**DP B...** Order code	dimensions: b	d	**SS B...** Order code	dimensions: d × L
1	**APRB1X APRB1VZX APRB4571X**	40	196	3	**DPB1...***	34	6.6	**SSLA2/SSB1...***	M 06×35
2	**APRB2X APRB2VZX APRB24571X**	58	288	5	**DPB2...***	51	8.6	**SSB2...***	M 08×35
3	**APRB3X APRB3VZX APRB34571X**	72	358	5	**DPB3...***	64	8.6	**SSB3...***	M 08×45
4	**APRB4X APRB4VZX APRB44571X**	90	446	5	**DPB4...***	78	8.6	**SSB4...***	M 08×50
5	**APRB5X APRBVZX APRB4571X**	112	558	5	**DPB5...***	102	8.6	**SSB5...***	M 08×60



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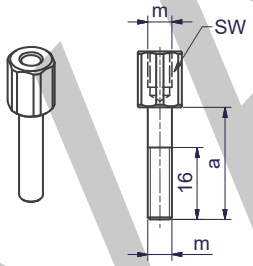
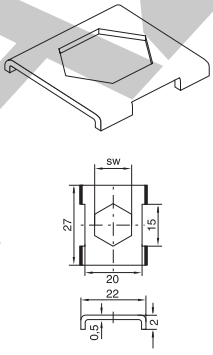
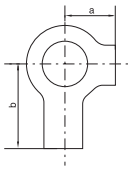


DIN 938





clamp size	socket head		stacking				locking plate[1]		locking washer[2]		
	IS B... Order code	dimensions: d × L	**AS B...** Order code	dimensions: a	m	SW	**SB B...** Order code	dim.: SW	**US...** Order code	dimensions: a	b
1	**ISA4...* (ISB1...*)**	M 06×35	**ASA0...* (ASB1...*)**	20	M6	11	**SBB1...***	11	**USA/USB1X[3]**	9	18
2	**ISB2...***	M 08×35	**ASB2...***	22	M8	12	**SBB2...***	12	**USB2X USB271X**	11	20
3	**ISB3...***	M 08×45	**ASB3...***	30	M8	12					
4	**ISB4...***	M 08×50	**ASB4...***	35	M8	12					
5	**ISB5...***	M 08×60	**ASB5...***	47	M8	12					

[1]) The use of stacking screws necessitates the use of locking plates in the construction assembly!
[2]) When assemblying solid rubber clamps, covering plates, he×agon screws and locking washers must be used.
[3]) Material = Stainless steel 1.4571

*Please add the suffix below according to the surface/material required.

Order code suffixes		
Surface/material	**Suffix**	Example
Steel, zinc plated, Cr(VI)-free	**X**	DPB1X
Stainless Steel 1.4571	**71X**	DPB14571X

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Tube clamps series B – Complete range

Order codes for clamp halves:

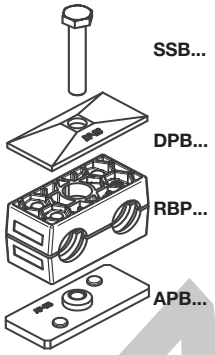
Material	Interior surface	Order code
Polypropylene	grooved	**RBP**
	smooth	**RBPG**
Polyamide	grooved	**RBN**
	smooth	**RBNG**
Rubber	smooth	**RBVG**[1)]

(Please exchange as required standard abbreviation RBP in column for "Order code")

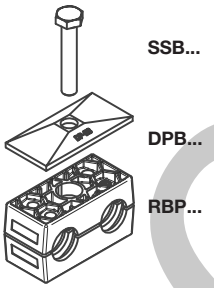
For flame- or corrosion retardant materials, please refer to page S5.

The steel parts of kits 1, 16 and 3 have the following surfaces:
Screws, bushes, cover plates = Cr(VI)-free galvanized
Welding plate = phosphated
Other compositions available on request.

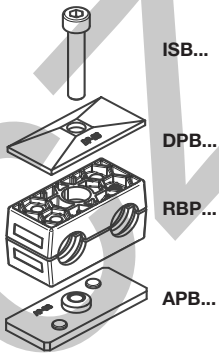
2 clamp halves, weld plate, cover plate, hex. head bolt



2 clamp halves, cover plate, hex. head bolt



2 clamp halves, weld plate, cover plate, socket head bolt



clamp size	Tube O.D. mm	Tube NB	Tube O.D.	Order code	Order code	Order code
1	6.0			**RBP1–106**	**RBP16-106**	**RBP3–106**
	6.4		1/4	**RBP1–106.4**	**RBP16-106.4**	**RBP3–106.4**
	8.0		5/16	**RBP1–108**	**RBP16-108**	**RBP3–108**
	9.5		3/8	**RBP1–109.5**	**RBP16-109.5**	**RBP3–109.5**
	10.0	G 1/8		**RBP1–110**	**RBP16-110**	**RBP3–110**
	12.0			**RBP1–112**	**RBP16-112**	**RBP3–112**
2	12.7		1/2	**RBP1–212.7**	**RBP16-212.7**	**RBP3–212.7**
	13.5	G 1/4		**RBP1–213.5**	**RBP16-213.5**	**RBP3–213.5**
	14.0			**RBP1–214**	**RBP16-214**	**RBP3–214**
	15.0			**RBP1–215**	**RBP16-215**	**RBP3–215**
	16.0		5/8	**RBP1–216**	**RBP16-216**	**RBP3–216**
	17.2	G 3/8		**RBP1–217.2**	**RBP16-217.2**	**RBP3–217.2**
	18.0			**RBP1–218**	**RBP16-218**	**RBP3–218**
3	19.0		3/4	**RBP1–319**	**RBP16-319**	**RBP3–319**
	20.0			**RBP1–320**	**RBP16-320**	**RBP3–320**
	21.3	G 1/2		**RBP1–321.3**	**RBP16-321.3**	**RBP3–321.3**
	22.0			**RBP1–322**	**RBP16-322**	**RBP3–322**
	25.0			**RBP1–325**	**RBP16-325**	**RBP3–325**
	25.4		1	**RBP1–325.4**	**RBP16-325.4**	**RBP3–325.4**
4	26.9	G 3/4		**RBP1–426.9**	**RBP16-426.9**	**RBP3–426.9**
	28.0			**RBP1–428**	**RBP16-428**	**RBP3–428**
	30.0			**RBP1–430**	**RBP16-430**	**RBP3–430**
5	32.0		1 1/4	**RBP1–532**	**RBP16-532**	**RBP3–532**
	33.7	G 1		**RBP1–533.7**	**RBP16-533.7**	**RBP3–533.7**
	35.0			**RBP1–535**	**RBP16-535**	**RBP3–535**
	38.0		1 1/2	**RBP1–538**	**RBP16-538**	**RBP3–538**
	40.0			**RBP1–540**	**RBP16-540**	**RBP3–540**
	42.0	G 1 1/4		**RBP1–542**	**RBP16-542**	**RBP3–542**

Delivery in unassembled individual components.

[1)] When assemblying solid rubber clamps, covering plates, he×agon screws and locking washers must be used.

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Tube clamps series B – Complete range

Order codes for clamp halves:

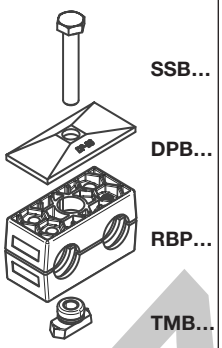
Material	Interior surface	Order code
Polypropylene	grooved	**RBP**
	smooth	**RBPG**
Polyamide	grooved	**RBN**
	smooth	**RBNG**
Rubber	smooth	**RBVG**[1)]

(Please exchange as required standard abbreviation RBP in column for "Order code")

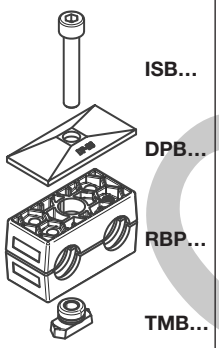
For flame- or corrosion retardant materials, please refer to page S5.

The steel parts of kits 4, 5 and 8 have the following surfaces:
Screws, bushes, cover plates = Cr(VI)-free galvanized
Welding plate = phosphated
Other compositions available on request.

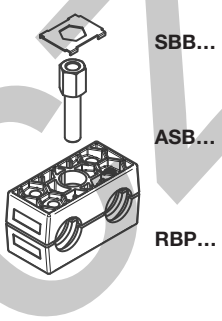
2 clamp halves, rail nut, cover plate, hex. head bolt



2 clamp halves, rail nut, cover plate, socket head bolt



2 clamp halves, locking plate, stacking bolt



clamp size	Tube O.D. mm	Tube NB	Tube O.D.	Order code	Order code	Order code
1	6.0	G 1/8	1/4	**RBP4–106**	**RBP5–106**	**RBP8–106**
	6.4			**RBP4–106.4**	**RBP5–106.4**	**RBP8–106.4**
	8.0		5/16	**RBP4–108**	**RBP5–108**	**RBP8–108**
	9.5		3/8	**RBP4–109.5**	**RBP5–109.5**	**RBP8–109.5**
	10.0			**RBP4–110**	**RBP5–110**	**RBP8–110**
	12.0			**RBP4–112**	**RBP5–112**	**RBP8–112**
2	12.7	G 1/4	1/2	**RBP4–212.7**	**RBP5–212.7**	**RBP8–212.7**
	13.5			**RBP4–213.5**	**RBP5–213.5**	**RBP8–213.5**
	14.0			**RBP4–214**	**RBP5–214**	**RBP8–214**
	15.0			**RBP4–215**	**RBP5–215**	**RBP8–215**
	16.0		5/8	**RBP4–216**	**RBP5–216**	**RBP8–216**
	17.2	G 3/8		**RBP4–217.2**	**RBP5–217.2**	**RBP8–217.2**
	18.0			**RBP4–218**	**RBP5–218**	**RBP8–218**
3	19.0	G 1/2	3/4	**RBP4–319**	**RBP5–319**	**RBP8–319**
	20.0			**RBP4–320**	**RBP5–320**	**RBP8–320**
	21.3			**RBP4–321.3**	**RBP5–321.3**	**RBP8–321.3**
	22.0			**RBP4–322**	**RBP5–322**	**RBP8–322**
	25.0			**RBP4–325**	**RBP5–325**	**RBP8–325**
	25.4		1	**RBP4–325.4**	**RBP5–325.4**	**RBP8–325.4**
4	26.9	G 3/4		**RBP4–426.9**	**RBP5–426.9**	**RBP8–426.9**
	28.0			**RBP4–428**	**RBP5–428**	**RBP8–428**
	30.0			**RBP4–430**	**RBP5–430**	**RBP8–430**
5	32.0	G 1	1 1/4	**RBP4–532**	**RBP5–532**	**RBP8–532**
	33.7			**RBP4–533.7**	**RBP5–533.7**	**RBP8–533.7**
	35.0			**RBP4–535**	**RBP5–535**	**RBP8–535**
	38.0		1 1/2	**RBP4–538**	**RBP5–538**	**RBP8–538**
	40.0			**RBP4–540**	**RBP5–540**	**RBP8–540**
	42.0	G 1 1/4		**RBP4–542**	**RBP5–542**	**RBP8–542**

Delivery in unassembled individual components.

[1)] When assemblying solid rubber clamps, covering plates, he×agon screws and locking washers must be used.

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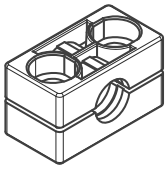
Tube clamps series C (Heavy series) – Components

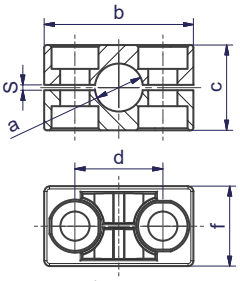
DIN 3015, part 2

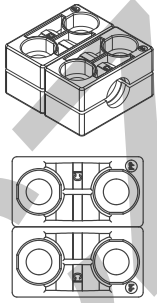
Order codes for clamp halves:

Material	Interior surface	Order code
Polypropylene	grooved	**RCP**
	smooth	**RCPG[1)]**
Polyamide	grooved	**RCN**
	smooth	**RCNG[1)]**
Rubber	grooved	**RCVR[1)2)]**
	smooth	**RCVG[1)2)]**
Aluminium	grooved	**RCA**

(Please exchange as required standard abbreviation RCP in column for "clamp halves")
For flame- or corrosion retardant materials, please refer to page S5.







Please order 2x the single clamp (e.g. 2x RCP...)

clamp size	Tube O.D. mm a	Tube NB	Tube O.D.	1 part 2 clamp halves **RCP...** Order code	dimensions: b	c	d	s	f	dimensions: f
1	6.0			**RCP106X**	56	32	33	2	30	60
	8.0		5/16	**RCP108X**						
	9.5		3/8	**RCP109.5X**						
	10.0	G 1/8		**RCP110X**						
	12.0			**RCP112X**						
	12.7		1/2	**RCP112.7X**						
	13.5	G 1/4		**RCP113.5X**						
	14.0			**RCP114X**						
	15.0			**RCP115X**						
	16.0		5/8	**RCP116X**						
	17.2	G 3/8		**RCP117.2X**						
	18.0			**RCP118X**						
2	19.0		3/4	**RCP219X**	71	48	45	2	30	60
	20.0			**RCP220X**						
	21.3	G 1/2		**RCP221.3X**						
	22.0			**RCP222X**						
	23.0			**RCP223X**						
	25.0			**RCP225X**						
	25.4		1	**RCP225.4X**						
	26.9	G 3/4		**RCP226.9X**						
	28.0			**RCP228X**						
	30.0			**RCP230X**						
3	30.0			**RCP330X**	86	60	60	2	30	60
	32.0		1 1/4	**RCP332X**						
	33.7	G 1		**RCP333.7X**						
	35.0			**RCP335X**						
	38.0		1 1/2	**RCP338X**						
	40.0			**RCP340X**						
	42.0	G 1 1/4		**RCP342X**						
4	38.0		1 1/2	**RCP438X**	117	90	90	3	45	90
	40.0			**RCP440X**						
	42.0	G 1 1/4		**RCP442X**						
	45.0			**RCP445X**						
	48.3	G 1 1/2		**RCP448.3X**						
	50.0			**RCP450X**						
	51.0		2	**RCP451X**						
	52.0			**RCP452X**						
	55.0			**RCP455X**						
	57.0		2 1/4	**RCP457X**						
	60.3	G 2		**RCP460.3X**						
	63.0		2 1/2	**RCP463X**						
	65.0			**RCP465X**						
	70.0		2 3/4	**RCP470X**						

Continuation see next page …

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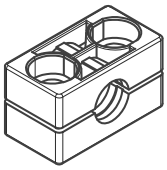
Tube clamps series C (Heavy series) – Components (Continued)

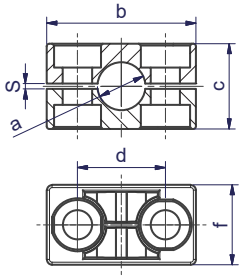
DIN 3015, part 2

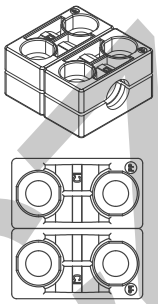
Order codes for clamp halves:

Material	Interior surface	Order code
Polypropylene	grooved	**RCP**
	smooth	**RCPG[1])**
Polyamide	grooved	**RCN**
	smooth	**RCNG[1])**
Rubber	grooved	**RCVR[1)2)]**
	smooth	**RCVG[1)2)]**
Aluminium	grooved	**RCA**

(Please exchange as required standard abbreviation RCP in column for "clamp halves")
For flame- or corrosion retardant materials, please refer to page S5.







Please order 2x the single clamp (e.g. 2x RCP...)

clamp size	Tube O.D. mm a	Tube NB	Tube O.D.	1 part 2 clamp halves RCP... Order code	dimensions: b	c	d	s	f	dimensions: f
5	65.0			**RCP565X**	154	120	122	5	60	120
	70.0		2 3/4	**RCP570X**						
	73.0			**RCP573X**						
	75.0			**RCP575X**						
	76.1	G 2 1/2	3	**RCP576.1X**						
	80.0			**RCP580X**						
	82.5		3 1/4	**RCP582.5X**						
	85.0			**RCP585X**						
	88.0			**RCP588X**						
	88.9	G 3	3 1/2	**RCP588.9X**						
	90.0			**RCP590X**						
6	90.0			**RCP690X**	206	168	168	6	80	160
	97.0			**RCP697X**						
	100.0			**RCP6100X**						
	101.6	G 3 1/2	4	**RCP6101.6X**						
	108.0		4 1/4	**RCP6108X**						
	114.3	G 4	4 1/2	**RCP6114.3X**						
	115.0			**RCP6115X**						
	120.0			**RCP6120X**						
	127.0		5	**RCP6127X**						
7	127.0		5	**RCP7127X**	251	200	205	6	90	180
	130.0			**RCP7130X**						
	133.0		5 1/4	**RCP7133X**						
	140.0	G 5	5 1/2	**RCP7140X**						
	150.0			**RCP7150X**						
	152.4	G 5 1/2	6	**RCP7152.4X**						
	159.0		6 1/4	**RCP7159X**						
	165.1		6 1/2	**RCP7165.1X**						
	168.3	G 6	6 5/8	**RCP7168.3X**						
8	168.3	G 6	6 5/8	**RCP8168.3X**	320	270	265	6	120	240
	177.8		7	**RCP8177.8X**						
	190.0			**RCP8190X**						
	193.7		7 5/8	**RCP8193.7X**						
	203.0		8	**RCP8203X**						
	219.1	G 8	8 5/8	**RCP8219.1X**						
	220.0			**RCP8220X**						
9	219.1	G 8	8 5/8	**RCP9219.1X**	470	410	395	20	162	324
	244.5			**RCP9244.5X**						
	273.0	G 10	10 3/4	**RCP9273X**						
	323.9	G 12	12 3/4	**RCP9323.9X**						
10	355.6	G 14		**RCP10355.6X**	630	530	534	20	182	364
	406.4	G 16		**RCP10406.4X**						

[1]) Only sizes 1–8
[2]) When assemblying solid rubber clamps, covering plates, he×agon screws and locking washers must be used.

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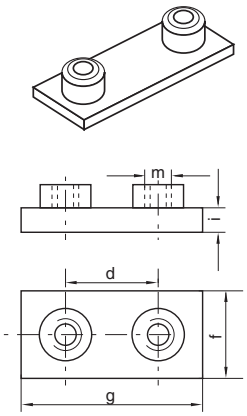
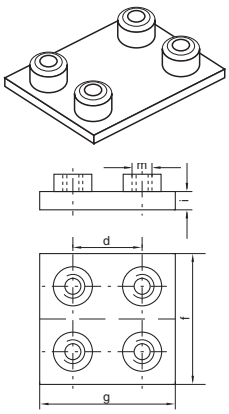
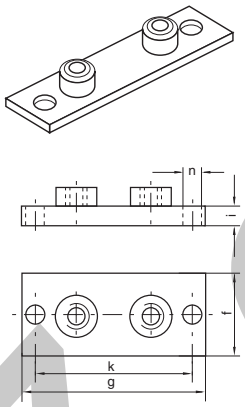
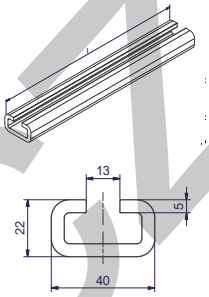
Tube clamps series C (Heavy series) – Components

DIN 3015, part 2









clamp size	weld plate						double weld plate						weld/screw plate					mounting rail	
	AP C… Order code	dimensions: d	f	g	i	m	**APD C…** Order code	dimensions: d	f	g	i	m	**APL C…** Order code	dimensions: g	f	i	k	n	**TS C…** Order code	length: l
1	**APC1...***	33	30	73	8	M10	**APDC1...***	33	60	73	8	M10	**APLC1...***	113	30	8	85	11	**TSC1X** **TSC1VERZX** **TSC14571X**	1 m
2	**APC2...***	45	30	84	8	M10	**APDC2...***	45	60	84	8	M10	**APLC2...***	125	30	8	97	11		
3	**APC3...***	60	30	100	8	M10	**APDC3...***	60	60	100	8	M10	**APLC3...***	140	30	8	112	11	**TSC2X** **TSC2VERZX** **TSC24571X**	2m
4	**APC4...***	90	45	140	10	M12	**APDC4...***	90	90	140	10	M12	**APLC4...***	190	45	10	160	14		
5	**APC5...***	122	60	180	10	M16	**APDC5...***	122	120	180	10	M16	**APLC5...***	240	60	10	205	18		
6	**APC6...***	168	80	225	15	M20	**APDC6...***	168	160	225	15	M20	**APLC6...***	310	80	15	270	22		
7	**APC7...***	205	90	270	15	M24	**APDC7...***	205	180	270	15	M24	**APLC7...***	370	90	15	320	26		
8	**APC8...***	265	120	340	25	M30	**APDC8...***	265	240	340	25	M30	**APLC8...***	450	120	25	390	33		
9	**APC9...***	395	160	520	30	M30	**APDC9...***	395	330	520	30	M30								
10	**APC10...***	534	180	680	30	M30	**APDC10...***	534	364	680	30	M30								

Complete programme range please refer to page S34.

*Please add the suffix below according to the surface/material required.

Order code suffixes		
Surface/material	**Suffix**	Example
Steel, phosphated	**X**	APC1X
Steel, zinc plated, Cr(VI)-free	**VZX**	APC1VZX
Stainless Steel 1.4571	**4571X**	APC14571X

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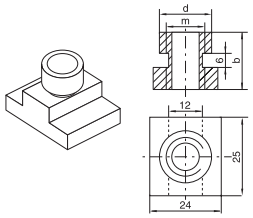
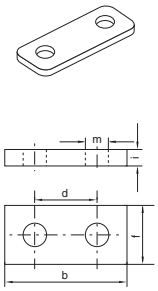
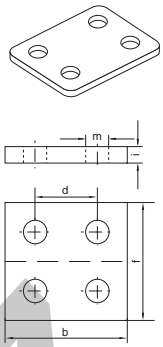
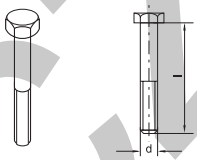
Tube clamps series C (Heavy series) – Components

DIN 3015, part 2









DIN 931/933

clamp size	rail nut				cover plate						double cover plate						hexagon head	
	TM C... Order code	dimensions: b	d	m	**DP C...** Order code	dimensions: b	d	f	i	m	**DPD C...** Order code	dimensions: b	d	f	i	m	**SS C...** Order code	dimensions: d x L
1	**TMC1VZX TMC14571X**	20	12.0	M10	**DPC1...***	55	33	30	8	11	**DPDC1...***	55	33	60	8	11	**SSC1...***	M 10×40
2					**DPC2...***	70	45	30	8	11	**DPDC2...***	70	45	60	8	11	**SSC2...***	M 10×60
3					**DPC3...***	85	60	30	8	11	**DPDC3...***	85	60	60	8	11	**SSC3...***	M 10×70
4	**TMC4VZX TMC44571X**	23	12.5	M12	**DPC4...***	115	90	45	10	14	**DPDC4...***	115	90	90	10	14	**SSC4...***	M 12×100
5	-	-			**DPC5...***	152	122	60	10	18	**DPDC5...***	152	122	120	10	18	**SSC5...***	M 16×130
6					**DPC6...***	205	168	80	15	22	**DPDC6...***	205	168	160	15	24	**SSC6...***	M 20×190
7					**DPC7...***	251	205	90	15	28	**DPDC7...***	250	205	180	15	28	**SSC7...***	M 24×220
8					**DPC8...***	320	265	120	25	35	**DPDC8...***	322	265	240	25	35	**SSC8...***	M 30×300
9					**DPC9...***	470	395	160	30	35	**DPDC9...***	466	395	330	30	35	**SSC9...***	M 30×450
10					**DPC10...***	630	534	180	30	35	**DPDC10...***	630	534	360	30	35	**SSC10...***	M 30×560

*Please add the suffix below according to the surface/material required.

Order code suffixes		
Surface/material	**Suffix**	Example
Steel, phosphated	**X**	DPC1X
Steel, zinc plated, Cr(VI)-free	**VZX**	DPC1VZX
Stainless Steel 1.4571	**4571X**	DPC14571X

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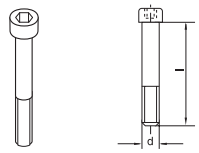
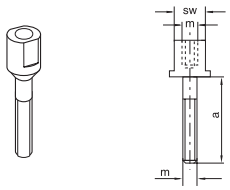
Tube clamps series C (Heavy series) – Components

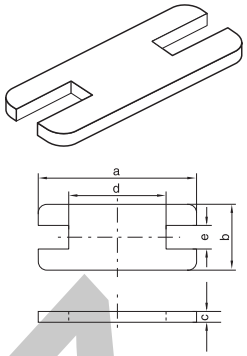
DIN 3015, part 2

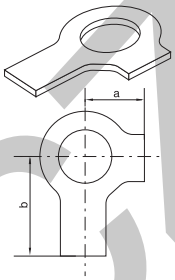


ISO 4762



DIN 938





clamp size	socket head		stacking			locking plate[1])					locking washer[2])		
	IS C… Order code	dimensions: d × L	**AS C…** Order code	dimensions: a	m	SW	**SP C…** Order code	dimensions: a	b	c	d	e	**US C…** Order code	dimensions: a	b
1	**ISC1...***	M 10×45	**ASC1...***	25	M10	15	**SPC1...***	55	30	8	14	15.5			
2	**ISC2...***	M 10×60	**ASC2...***	40	M10	15	**SPC2...***	70	30	8	26	15.5	**USC1X[3]) USC14571X**	13	22
3	**ISC3...***	M 10×70	**ASC3...***	50	M10	15	**SPC3...***	85	30	8	41	15.5			
4	**ISC4...***	M 12×100	**ASC4...***	80	M12	17	**SPC4...***	115	45	10	69	17.5	**USC4X[3]) USC44571X**	15	28
5	**ISC5...***	M 16×130	**ASC5...***	110	M16	21	**SPC5...***	152	60	10	97	21.5	**USC5X[3]) USC54571X**	18	32
6	**ISC6...***	M 20×190	**ASC6...***	155	M20	27	**SPC6...***	205	80	15	137	27.5	**USC6X[3]) USC64571X**	21	36
7	**ISC7...***	M 24×220	**ASC7...***	180	M24	30	**SPC7...***	250	90	15	169	30.5	**USC7X[3]) USC74571X**	25	42
8	**ISC8...***	M 30×300	**ASC8...***	250	M30	36	**SPC8...***	320	120	25	219	36.5	**USC8X[3]) USC84571X**	32	52
9	**ISC9...***	M 30×450													
10	**ISC10...***	M 30×560													

[1]) The use of stacking screws necessitates the use of locking plates in the construction assembly!
[2]) When assemblying solid rubber clamps, covering plates, he×agon screws and locking washers must be used.
[3]) Material = Steel, zinc plated, Cr(VI)-free

*Please add the suffix below according to the surface/material required.

Order code suffixes		
Surface/material	**Suffix**	Example
Steel, phosphated	**X**	ISC1X
Steel, zinc plated, Cr(VI)-free	**VZX**	ISC1VZX
Stainless Steel 1.4571	**4571X**	ISC14571X

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S

Tube clamps series C – Complete range

Order codes for clamp halves:

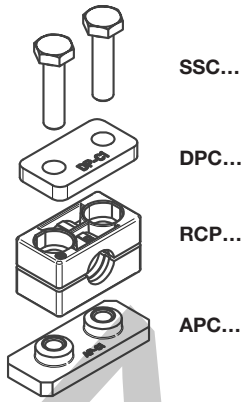
Material	Interior surface	Order code
Polypropylene	grooved	**RCP**
	smooth	**RCPG**[1)]
Polyamide	grooved	**RCN**
	smooth	**RCNG**[1)]
Rubber	grooved	**RCVR**[1)2)]
	smooth	**RCVG**[1)2)]
Aluminium	grooved	**RCA**

(Please exchange as required standard abbreviation RCP in column for "Order code")

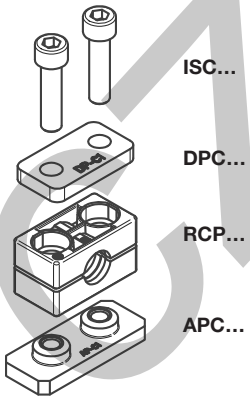
For flame- or corrosion retardant materials, please refer to page S5.

The steel parts of kits 1 and 2 are phosphated.
Other compositions available on request.

2 clamp halves, weld plate, cover plate, hex. head bolt



2 clamp halves, weld plate, cover plate, socket head bolt



clamp size	Tube O.D. mm	Tube NB	Tube O.D.	Order code	Order code
1	6.0			**RCP1–106**	**RCP2–106**
	8.0		5/16	**RCP1–108**	**RCP2–108**
	9.5	G 1/8	3/8	**RCP1–109.5**	**RCP2–109.5**
	10.0			**RCP1–110**	**RCP2–110**
	12.0		1/2	**RCP1–112**	**RCP2–112**
	12.7	G 1/4		**RCP1–112.7**	**RCP2–112.7**
	13.5			**RCP1–113.5**	**RCP2–113.5**
	14.0			**RCP1–114**	**RCP2–114**
	15.0		5/8	**RCP1–115**	**RCP2–115**
	16.0	G 3/8		**RCP1–116**	**RCP2–116**
	17.2			**RCP1–117.2**	**RCP2–117.2**
	18.0			**RCP1–118**	**RCP2–118**
2	19.0		3/4	**RCP1–219**	**RCP2–219**
	20.0			**RCP1–220**	**RCP2–220**
	21.3	G 1/2		**RCP1–221.3**	**RCP2–221.3**
	22.0			**RCP1–222**	**RCP2–222**
	23.0			**RCP1–223**	**RCP2–223**
	25.0			**RCP1–225**	**RCP2–225**
	25.4		1	**RCP1–225.4**	**RCP2–225.4**
	26.9	G 3/4		**RCP1–226.9**	**RCP2–226.9**
	28.0			**RCP1–228**	**RCP2–228**
	30.0			**RCP1–230**	**RCP2–230**
3	30.0			**RCP1–330**	**RCP2–330**
	32.0		1 1/4	**RCP1–332**	**RCP2–332**
	33.7	G 1		**RCP1–333.7**	**RCP2–333.7**
	35.0			**RCP1–335**	**RCP2–335**
	38.0		1 1/2	**RCP1–338**	**RCP2–338**
	40.0			**RCP1–340**	**RCP2–340**
	42.0	G 1 1/4		**RCP1–342**	**RCP2–342**
4	38.0		1 1/2	**RCP1–438**	**RCP2–438**
	40.0			**RCP1–440**	**RCP2–440**
	42.0	G 1 1/4		**RCP1–442**	**RCP2–442**
	45.0			**RCP1–445**	**RCP2–445**
	48.3	G 1 1/2		**RCP1–448.3**	**RCP2–448.3**
	50.0			**RCP1–450**	**RCP2–450**
	51.0		2	**RCP1–451**	**RCP2–451**
	52.0			**RCP1–452**	**RCP2–452**
	55.0			**RCP1–455**	**RCP2–455**
	57.0		2 1/4	**RCP1–457**	**RCP2–457**
	60.3	G 2		**RCP1–460.3**	**RCP2–460.3**
	63.0		2 1/2	**RCP1–463**	**RCP2–463**
	65.0			**RCP1–465**	**RCP2–465**
	70.0			**RCP1–470**	**RCP2–470**

Continuation see next page …

Tube clamps series C – Complete range (Continued)

Order codes for clamp halves:

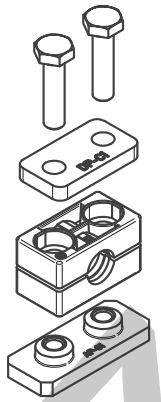
Material	Interior surface	Order code
Polypropylene	grooved	**RCP**
	smooth	**RCPG**[1)]
Polyamide	grooved	**RCN**
	smooth	**RCNG**[1)]
Rubber	grooved	**RCVR**[1)2)]
	smooth	**RCVG**[1)2)]
Aluminium	grooved	**RCA**

(Please exchange as required standard abbreviation RCP in column for "Order code")

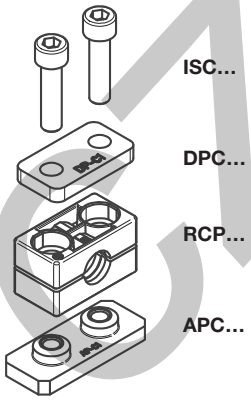
For flame- or corrosion retardant materials, please refer to page S5.

The steel parts of kits 1 and 2 are phosphated.
Other compositions available on request.

2 clamp halves, weld plate, cover plate, hex. head bolt



2 clamp halves, weld plate, cover plate, socket head bolt



clamp size	Tube O.D. mm	Tube NB	Tube O.D.	Order code	Order code
5	65.0			**RCP1–565**	**RCP2–565**
	70.0			**RCP1–570**	**RCP2–570**
	73.0			**RCP1–573**	**RCP2–573**
	75.0			**RCP1–575**	**RCP2–575**
	76.1	G 2 1/2	3	**RCP1–576.1**	**RCP2–576.1**
	80.0			**RCP1–580**	**RCP2–580**
	82.5		3 1/4	**RCP1–582.5**	**RCP2–582.5**
	85.0			**RCP1–585**	**RCP2–585**
	88.0			**RCP1–588**	**RCP2–588**
	88.9	G 3	3 1/2	**RCP1–588.9**	**RCP2–588.9**
	90.0			**RCP1–590**	**RCP2–590**
6	90.0			**RCP1–690**	**RCP2–690**
	97.0			**RCP1–697**	**RCP2–697**
	100.0			**RCP1–6100**	**RCP2–6100**
	101.6	G 3 1/2	4	**RCP1–6101.6**	**RCP2–6101.6**
	108.0		4 1/4	**RCP1–6108**	**RCP2–6108**
	114.3	G 4	4 1/2	**RCP1–6114.3**	**RCP2–6114.3**
	115.0			**RCP1–6115**	**RCP2–6115**
	120.0			**RCP1-6120**	**RCP2–6120**
	127.0		5	**RCP1–6127**	**RCP2–6127**
7	127.0		5	**RCP1–7127**	**RCP2–7127**
	130.0			**RCP1–7130**	**RCP2–7130**
	133.0		5 1/4	**RCP1–7133**	**RCP2–7133**
	140.0	G 5	5 1/2	**RCP1–7140**	**RCP2–7140**
	150.0			**RCP1–7150**	**RCP2–7150**
	152.4	G 5 1/2	6	**RCP1–7152.4**	**RCP2–7152.4**
	159.0		6 1/4	**RCP1–7159**	**RCP2–7159**
	165.1	G 6	6 1/2	**RCP1–7165.1**	**RCP2–7165.1**
	168.3		6 5/8	**RCP1–7168.3**	**RCP2–7168.3**
8	168.3		6 5/8	**RCP1–8168.3**	**RCP2–8168.3**
	177.8		7	**RCP1–8177.8**	**RCP2–8177.8**
	190.0			**RCP1–8190**	**RCP2–8190**
	193.7		7 5/8	**RCP1–8193.7**	**RCP2–8193.7**
	203.0			**RCP1–8203**	**RCP2–8203**
	219.1	G 8	8 5/8	**RCP1–8219.1**	**RCP2–8219.1**
	220.0			**RCP1–8220**	**RCP2–8220**
9	219.1	G 8		**RCP1–9219.1**	**RCP2–9219.1**
	244.5			**RCP1–9244.5**	**RCP2–9244.5**
	273.0	G 10	10 3/4	**RCP1–9273**	**RCP2–9273**
	323.9	G 12	12 3/4	**RCP1–9323.9**	**RCP2–9323.9**
10	355.6	G 14		**RCP1–10355.6**	**RCP2–10355.6**
	406.4	G 16		**RCP1–10406.4**	**RCP2–10406.4**

Delivery in unassembled individual components.

[1]) Only sizes 1–8

[2]) When assemblying solid rubber clamps, covering plates, hexagon screws and locking washers must be used.

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Tube clamps series C – Complete range

Order codes for clamp halves:

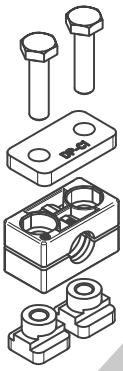
Material	Interior surface	Order code
Polypropylene	grooved	**RCP**
	smooth	**RCPG**[1)]
Polyamide	grooved	**RCN**
	smooth	**RCNG**[1)]
Rubber	grooved	**RCVR**[1)2)]
	smooth	**RCVG**[1)2)]
Aluminium	grooved	**RCA**

(Please exchange as required standard abbreviation RCP in column for "Order code")

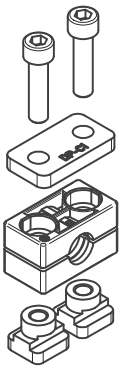
For flame- or corrosion retardant materials, please refer to page S5.

The steel parts of kits 3, 4 and 5 have the following surfaces:
Bolts, cover plate, locking plate = phosphated
Rail nuts = Cr(VI)-free galvanized
Other compositions available on request.

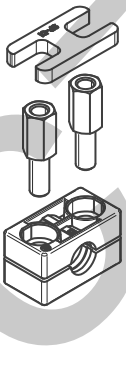
2 clamp halves, rail nuts, cover plate, hex. head bolts



2 clamp halves, rail nuts, cover plate, socket head bolts



2 clamp halves, locking plate, stacking bolts



clamp size	Tube O.D. mm	Tube NB	Tube O.D.	Order code	Order code	Order code
1	6.0			**RCP3–106**	**RCP4–106**	**RCP5–106**
	8.0		5/16	**RCP3–108**	**RCP4–108**	**RCP5–108**
	9.5	G 1/8	3/8	**RCP3-109.5**	**RCP4-109.5**	**RCP5-109.5**
	10.0			**RCP3–110**	**RCP4–110**	**RCP5–110**
	12.0		1/2	**RCP3–112**	**RCP4–112**	**RCP5–112**
	12.7	G 1/4		**RCP3–112.7**	**RCP4–112.7**	**RCP5–112.7**
	13.5			**RCP3–113.5**	**RCP4–113.5**	**RCP5–113.5**
	14.0			**RCP3–114**	**RCP4–114**	**RCP5–114**
	15.0		5/8	**RCP3–115**	**RCP4–115**	**RCP5–115**
	16.0	G 3/8		**RCP3–116**	**RCP4–116**	**RCP5–116**
	17.2			**RCP3–117.2**	**RCP4–117.2**	**RCP5–117.2**
	18.0			**RCP3–118**	**RCP4–118**	**RCP5–118**
2	19.0		3/4	**RCP3–219**	**RCP4–219**	**RCP5–219**
	20.0			**RCP3–220**	**RCP4–220**	**RCP5–220**
	21.3	G 1/2		**RCP3–221.3**	**RCP4–221.3**	**RCP5–221.3**
	22.0			**RCP3–222**	**RCP4–222**	**RCP5–222**
	23.0			**RCP3–223**	**RCP4–223**	**RCP5–223**
	25.0			**RCP3–225**	**RCP4–225**	**RCP5–225**
	25.4		1	**RCP3-225.4**	**RCP4-225.4**	**RCP5-225.4**
	26.9	G 3/4		**RCP3–226.9**	**RCP4–226.9**	**RCP5–226.9**
	28.0			**RCP3–228**	**RCP4–228**	**RCP5–228**
	30.0			**RCP3–230**	**RCP4–230**	**RCP5–230**
3	30.0			**RCP3–330**	**RCP4–330**	**RCP5–330**
	32.0		1 1/4	**RCP3–332**	**RCP4–332**	**RCP5–332**
	33.7	G 1		**RCP3–333.7**	**RCP4–333.7**	**RCP5–333.7**
	35.0			**RCP3–335**	**RCP4–335**	**RCP5–335**
	38.0		1 1/2	**RCP3–338**	**RCP4–338**	**RCP5–338**
	40.0			**RCP3–340**	**RCP4–340**	**RCP5–340**
	42.0	G 1 1/4		**RCP3–342**	**RCP4–342**	**RCP5–342**
4	38.0		1 1/2	**RCP3–438**	**RCP4–438**	**RCP5–438**
	40.0			**RCP3–440**	**RCP4–440**	**RCP5–440**
	42.0	G 1 1/4		**RCP3–442**	**RCP4–442**	**RCP5–442**
	45.0			**RCP3–445**	**RCP4–445**	**RCP5–445**
	48.3	G 1 1/2		**RCP3–448.3**	**RCP4–448.3**	**RCP5–448.3**
	50.0			**RCP3–450**	**RCP4–450**	**RCP5–450**
	51.0		2	**RCP3–451**	**RCP4–451**	**RCP5–451**
	52.0			**RCP3–452**	**RCP4–452**	**RCP5–452**
	55.0			**RCP3–455**	**RCP4–455**	**RCP5–455**
	57.0		2 1/4	**RCP3–457**	**RCP4–457**	**RCP5–457**
	60.3	G 2		**RCP3–460.3**	**RCP4–460.3**	**RCP5–460.3**
	63.0		2 1/2	**RCP3–463**	**RCP4–463**	**RCP5–463**
	65.0			**RCP3–465**	**RCP4–465**	**RCP5–465**
	70.0			**RCP3–470**	**RCP4–470**	**RCP5–470**

Continuation see next page …

Tube clamps series C – Complete range (Continued)

Order codes for clamp halves:

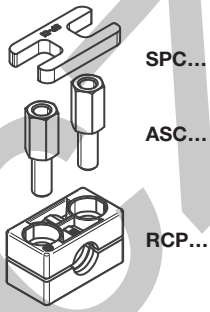
Material	Interior surface	Order code
Polypropylene	grooved	**RCP**
	smooth	**RCPG**[1)]
Polyamide	grooved	**RCN**
	smooth	**RCNG**[1)]
Rubber	grooved	**RCVR**[1)2)]
	smooth	**RCVG**[1)2)]
Aluminium	grooved	**RCA**

(Please exchange as required standard abbreviation RCP in column for "Order code")

For flame- or corrosion retardant materials, please refer to page S5.

The steel parts of kits 5 are phosphated.
Other compositions available on request.

2 clamp halves, locking plate, stacking bolts



clamp size	Tube O.D. mm	Tube NB	Tube O.D.	Order code
5	65.0			**RCP5–565**
	70.0			**RCP5–570**
	73.0			**RCP5–573**
	75.0			**RCP5–575**
	76.1	G 2 1/2	3	**RCP5–576.1**
	80.0			**RCP5–580**
	82.5		3 1/4	**RCP5–582.5**
	85.0			**RCP5-585**
	88.0			**RCP5-588**
	88.9	G 3	3 1/2	**RCP5–588.9**
	90.0			**RCP5–590**
6	90.0			**RCP5–690**
	97.0			**RCP5–697**
	100.0			**RCP5–6100**
	101.6	G 3 1/2	4	**RCP5–6101.6**
	108.0		4 1/4	**RCP5–6108**
	114.3	G 4	4 1/2	**RCP5–6114.3**
	115.0			**RCP5-6115**
	120.0			**RCP5-6120**
	127.0		5	**RCP5–6127**
7	127.0		5	**RCP5–7127**
	130.0			**RCP5–7130**
	133.0		5 1/4	**RCP5–7133**
	140.0	G 5	5 1/2	**RCP5–7140**
	150.0			**RCP5–7150**
	152.4	G 5 1/2	6	**RCP5–7152.4**
	159.0		6 1/4	**RCP5–7159**
	165.1	G 6	6 1/2	**RCP5–7165.1**
	168.3		6 5/8	**RCP5–7168.3**
8	168.3		6 5/8	**RCP5–8168.3**
	177.8		7	**RCP5–8177.8**
	190.0			**RCP5-8190**
	193.7		7 5/8	**RCP5–8193.7**
	203.0			**RCP5–8203**
	219.1	G 8	8 5/8	**RCP5–8219.1**
	220.0			**RCP5–8220**

Delivery in unassembled individual components.

[1]) Only sizes 1–8

[2]) When assemblying solid rubber clamps, covering plates, he×agon screws and locking washers must be used.

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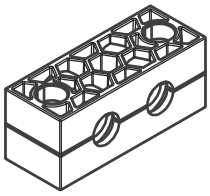
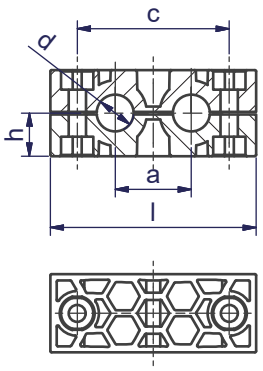
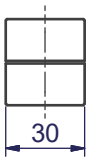
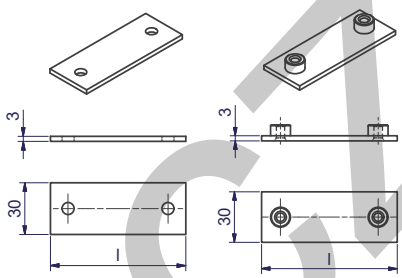
S

Multiclamp series A









clamp size	Tube O.D. mm d	Number of tubes	Number of Fastening screws B	1 part 2 clamp halves RAPM Order code	2 clamp-halves RAPM-... a	c	h	l	cover plate Order code	length:	weld plate Order code	length:
1	6.0 6.4 8.0 9.5 10.0 12.0	2	2	**RAPM106B2X** **RAPM106.4B2X** **RAPM108B2X** **RAPM109.5B2X** **RAPM110B2X** **RAPM112B2X**	20	40	13.5	60.5	**DPM1B2...***	60.5	**APM1B2...***	62.5
2	10.0 12.0 12.7 13.5 14.0 15.0 16.0 17.2 18.0	2	2	**RAPM210B2X** **RAPM212B2X** **RAPM212.7B2X** **RAPM213.5B2X** **RAPM214B2X** **RAPM215B2X** **RAPM216B2X** **RAPM217.2B2X** **RAPM218B2X**	29	58	16.5	78.5	**DPM2B2...***	78.5	**APM2B2...***	80.5
3	15.0 16.0 17.2 18.0 19.0 20.0 21.3 22.0 23.0 25.0 25.4	2	2	**RAPM315B2X** **RAPM316B2X** **RAPM317.2B2X** **RAPM318B2X** **RAPM319B2X** **RAPM320B2X** **RAPM321.3B2X** **RAPM322B2X** **RAPM323B2X** **RAPM325B2X** **RAPM325.4B2X**	36	72	18.5	92.5	**DPM3B2...***	92.5	**APM3B2...***	94.5

Order codes for clamp halves:

Material	Interiour surface	Order code
Polypropylene	grooved	**RAPM**
	smooth	**RAPGM**
Polyamide	grooved	**RANM**
	smooth	**RANGM**
Rubber	smooth	**RAVGM**[1)]

(Please exchange as required standard abbreviation RAPM in column for “Order code”)

For flame- or corrosion retardant materials, please refer to page S5.

*Please add the suffix below according to the surface/material required.

Order code suffixes		
Surface/material	**Suffix**	Example
Steel, phosphated	**X**	DPM1B2X
Steel, zinc plated, Cr(VI)-free	**VZX**	DPM1B2VZX
Stainless Steel 1.4571	**4571X**	DPM1B24571X

Different diameter on request.

[1)] When assemblying solid rubber clamps, covering plates, he×agon screws and locking washers must be used.

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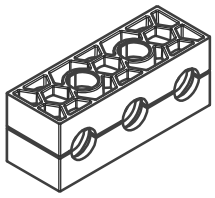
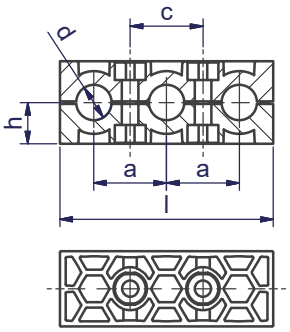
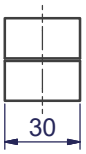
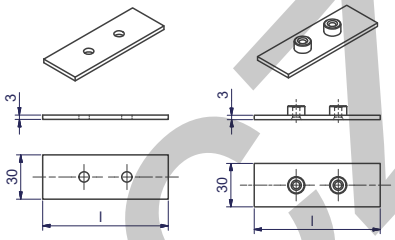
Multiclamp series A









clamp size	Tube O.D. mm d	Number of tubes	Number of Fastening screws B	1 part 2 clamp halves RAPM Order code	2 clamp-halves RAPM-... a	c	h	l	cover plate Order code	length:	weld plate Order code	length:
1	6.0 6.4 8.0 9.5 10.0 12.0	3	2	**RAPM106B3X** **RAPM106.4B3X** **RAPM108B3X** **RAPM109.5B3X** **RAPM110B3X** **RAPM112B3X**	20	20	13.5	56	**DPM1B3...***	56	**APM1B3...***	58
2	10.0 12.0 12.7 13.5 14.0 15.0 16.0 17.2 18.0	3	2	**RAPM210B3X** **RAPM212B3X** **RAPM212.7B3X** **RAPM213.5B3X** **RAPM214B3X** **RAPM215B3X** **RAPM216B3X** **RAPM217.2B3X** **RAPM218B3X**	29	29	16.5	85	**DPM2B3...***	85	**APM2B3...***	87
3	15.0 16.0 17.2 18.0 19.0 20.0 21.3 22.0 23.0 25.0 25.4	3	2	**RAPM315B3X** **RAPM316B3X** **RAPM317.2B3X** **RAPM318B3X** **RAPM319B3X** **RAPM320B3X** **RAPM321.3B3X** **RAPM322B3X** **RAPM323B3X** **RAPM325B3X** **RAPM325.4B3X**	36	36	18.5	106	**DPM3B3...***	106	**APM3B3...***	108

Order codes for clamp halves:

Material	Interiour surface	Order code
Polypropylene	grooved	**RAPM**
	smooth	**RAPGM**
Polyamide	grooved	**RANM**
	smooth	**RANGM**
Rubber	smooth	**RAVGM**[1)]

(Please exchange as required standard abbreviation RAPM in column for "Order code")

For flame- or corrosion retardant materials, please refer to page S5.

*Please add the suffix below according to the surface/material required.

Order code suffixes		
Surface/material	**Suffix**	Example
Steel, phosphated	**X**	DPM1B3X
Steel, zinc plated, Cr(VI)-free	**VZX**	DPM1B3VZX
Stainless Steel 1.4571	**4571X**	DPM1B34571X

Different diameter on request.

[1)] When assemblying solid rubber clamps, covering plates, he×agon screws and locking washers must be used.

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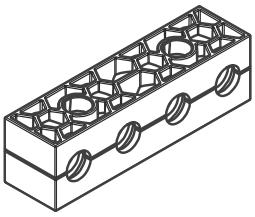
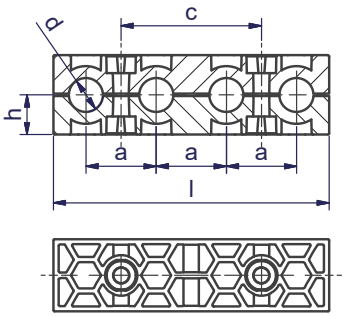
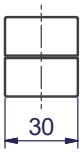
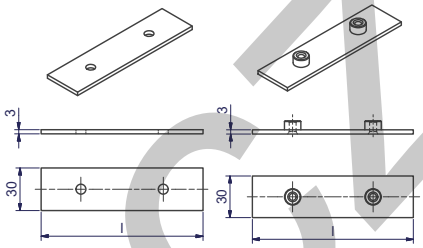
Multiclamp series A









clamp size	Tube O.D. mm d	Number of tubes	Number of Fastening screws B	1 part 2 clamp halves RAPM Order code	2 clamp-halves RAPM-... a	c	h	l	cover plate Order code	length:	weld plate Order code	length:
1	6.0 6.4 8.0 9.5 10.0 12.0	4	2	**RAPM106B4X** **RAPM106.4B4X** **RAPM108B4X** **RAPM109.5B4X** **RAPM110B4X** **RAPM112B4X**	20	40	13.5	76	**DPM1B4...***	76	**APM1B4...***	78
2	10.0 12.0 12.7 13.5 14.0 15.0 16.0 17.2 18.0	4	2	**RAPM210B4X** **RAPM212B4X** **RAPM212.7B4X** **RAPM213.5B4X** **RAPM214B4X** **RAPM215B4X** **RAPM216B4X** **RAPM217.2B4X** **RAPM218B4X**	29	58	16.5	114	**DPM2B4...***	114	**APM2B4...***	116
3	15.0 16.0 17.2 18.0 19.0 20.0 21.3 22.0 23.0 25.0 25.4	4	2	**RAPM315B4X** **RAPM316B4X** **RAPM317.2B4X** **RAPM318B4X** **RAPM319B4X** **RAPM320B4X** **RAPM321.3B4X** **RAPM322B4X** **RAPM323B4X** **RAPM325B4X** **RAPM325.4B4X**	36	72	18.5	142	**DPM3B4...***	142	**APM3B4...***	144

Order codes for clamp halves:

Material	Interiour surface	Order code
Polypropylene	grooved	**RAPM**
	smooth	**RAPGM**
Polyamide	grooved	**RANM**
	smooth	**RANGM**
Rubber	smooth	**RAVGM[1)]**

(Please exchange as required standard abbreviation RAPM in column for “Order code”)

For flame- or corrosion retardant materials, please refer to page S5.

*Please add the suffix below according to the surface/material required.

Order code suffixes		
Surface/material	**Suffix**	Example
Steel, phosphated	**X**	DPM1B4X
Steel, zinc plated, Cr(VI)-free	**VZX**	DPM1B4VZX
Stainless Steel 1.4571	**4571X**	DPM1B44571X

Different diameter on request.

[1)] When assemblying solid rubber clamps, covering plates, he×agon screws and locking washers must be used.

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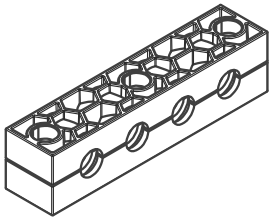
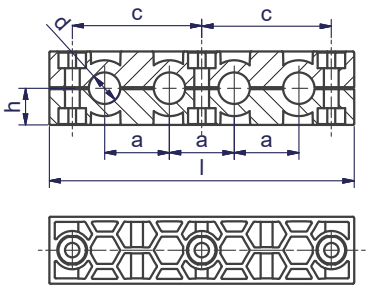
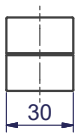
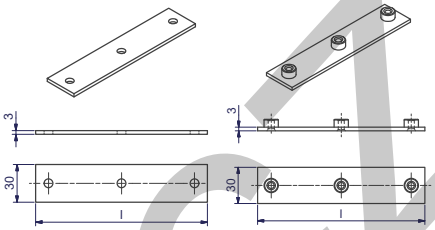
Multiclamp series A









clamp size	Tube O.D. mm d	Number of tubes	Number of Fastening screws C	1 part 2 clamp halves RAPM Order code	2 clamp-halves RAPM-... a	c	h	l	cover plate Order code	length:	weld plate Order code	length:
1	6.0 6.4 8.0 9.5 10.0 12.0	4	3	**RAPM106C4X** **RAPM106.4C4X** **RAPM108C4X** **RAPM109.5C4X** **RAPM110C4X** **RAPM112C4X**	20	40	13.5	100.5	**DPM1C4...***	100.5	**APM1C4...***	102.5
2	10.0 12.0 12.7 13.5 14.0 15.0 16.0 17.2 18.0	4	3	**RAPM210C4X** **RAPM212C4X** **RAPM212.7C4X** **RAPM213.5C4X** **RAPM214C4X** **RAPM215C4X** **RAPM216C4X** **RAPM217.2C4X** **RAPM218C4X**	29	58	16.5	136.5	**DPM2C4...***	136.5	**APM2C4...***	138.5
3	15.0 16.0 17.2 18.0 19.0 20.0 21.3 22.0 23.0 25.0 25.4	4	3	**RAPM315C4X** **RAPM316C4X** **RAPM317.2C4X** **RAPM318C4X** **RAPM319C4X** **RAPM320C4X** **RAPM321.3C4X** **RAPM322C4X** **RAPM323C4X** **RAPM325C4X** **RAPM325.4C4X**	36	72	18.5	164.5	**DPM3C4...***	164.5	**APM3C4...***	166.5

Order codes for clamp halves:

Material	Interiour surface	Order code
Polypropylene	grooved	**RAPM**
	smooth	**RAPGM**
Polyamide	grooved	**RANM**
	smooth	**RANGM**
Rubber	smooth	**RAVGM**[1)]

(Please exchange as required standard abbreviation RAPM in column for "Order code")

For flame- or corrosion retardant materials, please refer to page S5.

*Please add the suffix below according to the surface/material required.

Order code suffixes		
Surface/material	**Suffix**	Example
Steel, phosphated	**X**	DPM1C4X
Steel, zinc plated, Cr(VI)-free	**VZX**	DPM1C4VZX
Stainless Steel 1.4571	**4571X**	DPM1C44571X

Different diameter on request.

[1)] When assemblying solid rubber clamps, covering plates, he×agon screws and locking washers must be used.

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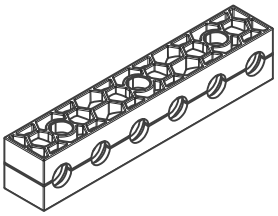
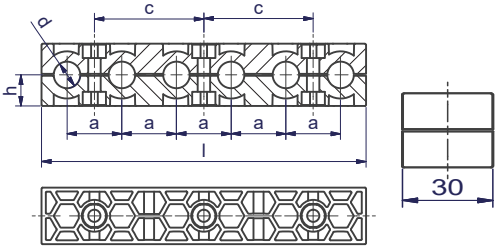
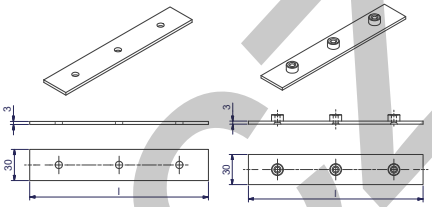
S

Multiclamp series A







clamp size	Tube O.D. mm d	Number of tubes	Number of Fastening screws C	1 part 2 clamp halves RAPM Order code	2 clamp-halves RAPM-... a	c	h	l	cover plate Order code	length:	weld plate Order code	length:
1	6.0 6.4 8.0 9.5 10.0 12.0	6	3	**RAPM106C6X** **RAPM106.4C6X** **RAPM108C6X** **RAPM109.5C6X** **RAPM110C6X** **RAPM112C6X**	20	40	13.5	116	**DPM1C6...***	116	**APM1C6...***	118
2	10.0 12.0 12.7 13.5 14.0 15.0 16.0 17.2 18.0	6	3	**RAPM210C6X** **RAPM212C6X** **RAPM212.7C6X** **RAPM213.5C6X** **RAPM214C6X** **RAPM215C6X** **RAPM216C6X** **RAPM217.2C6X** **RAPM218C6X**	29	58	16.5	172	**DPM2C6...***	172	**APM2C6...***	174
3	15.0 16.0 17.2 18.0 19.0 20.0 21.3 22.0 23.0 25.0 25.4	6	3	**RAPM315C6X** **RAPM316C6X** **RAPM317.2C6X** **RAPM318C6X** **RAPM319C6X** **RAPM320C6X** **RAPM321.3C6X** **RAPM322C6X** **RAPM323C6X** **RAPM325C6X** **RAPM325.4C6X**	36	72	18.5	214	**DPM3C6...***	214	**APM3C6...***	216

Order codes for clamp halves:

Material	Interiour surface	Order code
Polypropylene	grooved	**RAPM**
	smooth	**RAPGM**
Polyamide	grooved	**RANM**
	smooth	**RANGM**
Rubber	smooth	**RAVGM**[1)]

(Please exchange as required standard abbreviation RAPM in column for “Order code”)

For flame- or corrosion retardant materials, please refer to page S5.

*Please add the suffix below according to the surface/material required.

Order code suffixes		
Surface/material	**Suffix**	Example
Steel, phosphated	**X**	DPM1C6X
Steel, zinc plated, Cr(VI)-free	**VZX**	DPM1C6VZX
Stainless Steel 1.4571	**4571X**	DPM1C64571X

Different diameter on request.

[1]) When assemblying solid rubber clamps, covering plates, he×agon screws and locking washers must be used.

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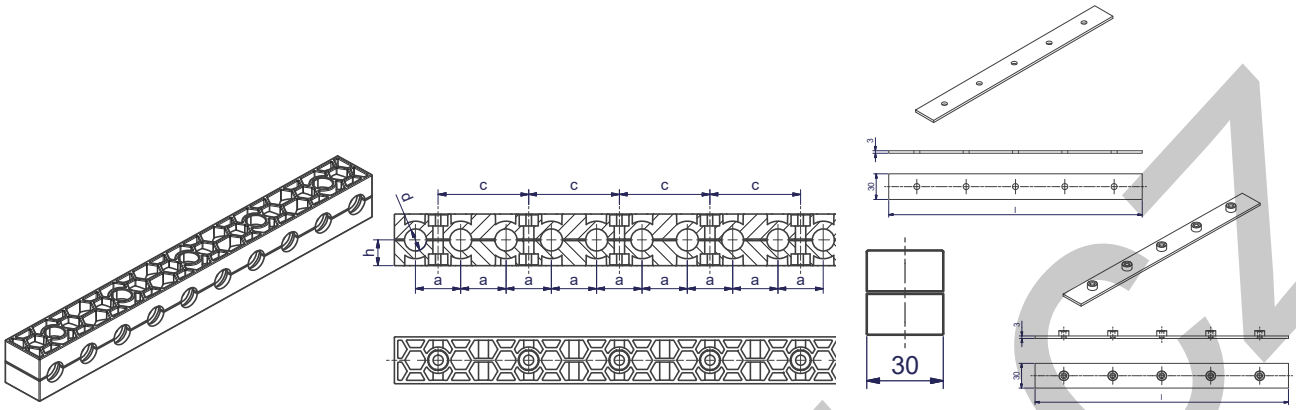
Multiclamp series A



clamp size	Tube O.D. mm d	Number of tubes	Number of Fastening screws C	1 part 2 clamp halves RAPM Order code	2 clamp-halves RAPM-... a	c	h	l	cover plate Order code	length:	weld plate Order code	length:
1	6.0 6.4 8.0 9.5 10.0 12.0	10	5	**RAPM106E10X** **RAPM106.4E10X** **RAPM108E10X** **RAPM109.5E10X** **RAPM110E10X** **RAPM112E10X**	20	40	13.5	196	**DPM1E10...***	196	**APM1E10...***	198
2	10.0 12.0 12.7 13.5 14.0 15.0 16.0 17.2 18.0	10	5	**RAPM210E10X** **RAPM212E10X** **RAPM212.7E10X** **RAPM213.5E10X** **RAPM214E10X** **RAPM215E10X** **RAPM216E10X** **RAPM217.2E10X** **RAPM218E10X**	29	58	16.5	288	**DPM2E10...***	288	**APM2E10...***	300
3	15.0 16.0 17.2 18.0 19.0 20.0 21.3 22.0 23.0 25.0 25.4	10	5	**RAPM315E10X** **RAPM316E10X** **RAPM317.2E10X** **RAPM318E10X** **RAPM319E10X** **RAPM320E10X** **RAPM321.3E10X** **RAPM322E10X** **RAPM323E10X** **RAPM325E10X** **RAPM325.4E10X**	36	72	18.5	358	**DPM3E10...***	358	**APM3E10...***	360

Order codes for clamp halves:

Material	Interiour surface	Order code
Polypropylene	grooved	**RAPM**
	smooth	**RAPGM**
Polyamide	grooved	**RANM**
	smooth	**RANGM**
Rubber	smooth	**RAVGM**[1)]

(Please exchange as required standard abbreviation RAPM in column for “Order code”)

For flame- or corrosion retardant materials, please refer to page S5.

*Please add the suffix below according to the surface/material required.

Order code suffixes		
Surface/material	**Suffix**	Example
Steel, phosphated	**X**	DPM1E10X
Steel, zinc plated, Cr(VI)-free	**VZX**	DPM1E10VZX
Stainless Steel 1.4571	**4571X**	DPM1E104571X

Different diameter on request.

[1)] When assemblying solid rubber clamps, covering plates, he×agon screws and locking washers must be used.

Tube clamps series O

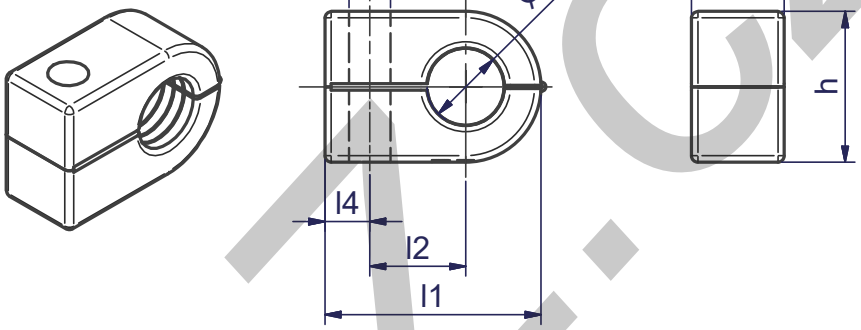
Order codes for clamps:

Material	Interiour surface	Order code
Polypropylene	smooth	**ROP**
Polyamide	smooth	**RON**

Packing standard 100 pieces.

Areas of Application:
- pneumatics
- automotive technology
- mechanical engineering
- measurement and control
- naval technologie

also suitable for cables and hoses.



Clamp-size	Tube Ø d1 O.D. mm	Tube NB	Inch	Order code Polypropylene ROP	Order code Polyamide RON	l1	l2	l4	b	H	Ø d2
1	6.0 6.4 8.0		1/4	**ROP106X** **ROP106.4X** **ROP108X**	**RON106X** **RON106.4X** **RON108X**	23	9	7	14.5	13.5	6.5
2	8.0 9.5 10.0 12.0 12.7	G 1/8	3/8 1/2	**ROP208X** **ROP209.5X** **ROP210X** **ROP212X** **ROP212.7X**	**RON208X** **RON209.5X** **RON210X** **RON212X** **RON212.7X**	27	11	7	14.5	18.5	6.5
3	10.0 12.0 12.7 13.5 14.0 15.0 16.0	G 1/8 G 1/4 	 1/2 5/8	**ROP310X** **ROP312X** **ROP312.7X** **ROP313.5X** **ROP314X** **ROP315X** **ROP316X**	**RON310X** **RON312X** **RON312.7X** **RON313.5X** **RON314X** **RON315X** **RON316X**	34	15	7	14.5	23.5	6.5
4	14.0 15.0 16.0 17.2 18.0 19.0 20.0 21.3 22.0	 G 3/8 G 1/2 	 5/8 3/4 	**ROP414X** **ROP415X** **ROP416X** **ROP417.2X** **ROP418X** **ROP419X** **ROP420X** **ROP421.3X** **ROP422X**	**RON414X** **RON415X** **RON416X** **RON417.2X** **RON418X** **RON419X** **RON420X** **RON421.3X** **RON422X**	40	19	6	14.5	30.5	6.5

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Double-Tube clamps series O

Order codes for clamps:

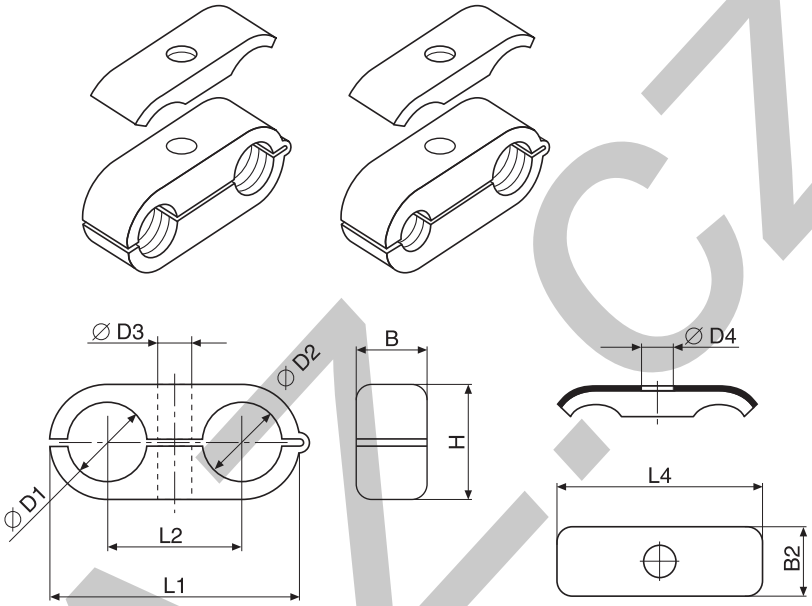
Material	Interiour surface	Order code
Polypropylene	smooth	**ROPD**
Polyamide	smooth	**ROND**

Different diameter on request.

Packing standard 100 pieces.

Areas of Application:
- pneumatics
- automotive technology
- mechanical engineering
- measurement and control
- machine tool industry

also suitable for cables and hoses.



Clamp-size	Tube O.D. D1/D2 mm	Tube NB	Inch	Order code Polypropylene ROPD	Order code Polyamide ROND	Order code Cover plate DPO	L1	L2	B	H	Ø D3	L4	B2	Ø D4
1	6.0 6.4 8.0		1/4	**ROPD106X** **ROPD106.4X** **ROPD108X**	**ROND106X** **ROND106.4X** **ROND108X**	**DPO1X**[1] **DPO14571X**	32	18	14.5	13.5	6.5	29.0	16.3	6.5
2	8.0 9.5 10.0 12.0 12.7	1/8	3/8 1/2	**ROPD208X** **ROPD209.5X** **ROPD210X** **ROPD212X** **ROPD212.7X**	**ROND208X** **ROND209.5X** **ROND210X** **ROND212X** **ROND212.7X**	**DPO2X**[1] **DPO24571X**	41	22	14.5	18.5	6.5	40.0	16.3	6.5
3	10.0 12.0 12.7 13.5 14.0 15.0 16.0	1/8 1/4	1/2 5/8	**ROPD310X** **ROPD312X** **ROPD312.7X** **ROPD313.5X** **ROPD314X** **ROPD315X** **ROPD316X**	**ROND310X** **ROND312X** **ROND312.7X** **ROND313.5X** **ROND314X** **ROND315X** **ROND316X**	**DPO3X**[1] **DPO34571X**	54	30	14.5	23.5	6.5	50.5	16.5	6.5
4	14.0 15.0 16.0 17.2 18.0 19.0 20.0 21.3 22.0	3/8 1/2	5/8 3/4	**ROPD414X** **ROPD415X** **ROPD416X** **ROPD417.2X** **ROPD418X** **ROPD419X** **ROPD420X** **ROPD421.3X** **ROPD422X**	**ROND414X** **ROND415X** **ROND416X** **ROND417.2X** **ROND418X** **ROND419X** **ROND420X** **ROND421.3X** **ROND422X**	**DPO4X**[1] **DPO44571X**	69	38	14.5	30.5	6.5	63.0	16.5	6.5

[1]) Material = Steel, zinc plated, Cr(VI)-free

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Hydraulic steel-clamps

Hydraulic steel-clamps

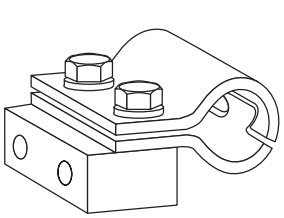
Order code **HSRS-∗**
W1: steel coating, Cr(VI)-free

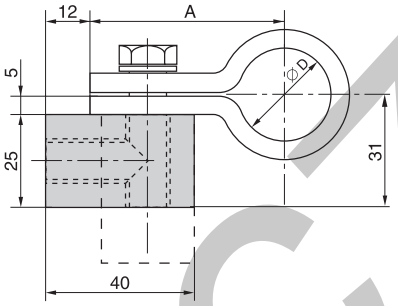
∗ please add. Ø D

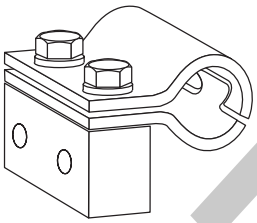
HSRS hydraulic steel-clamps are mainly used in the field of building machinery.

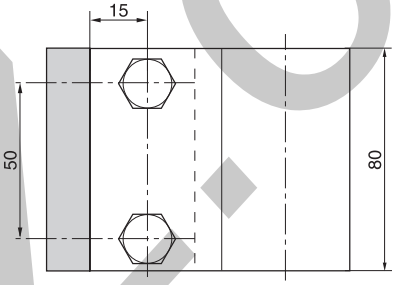
The support-block is welded to the machine body or another component either in upend or flat position. The tube-clamp is screwed on.

The robust construction of the clamp has an impact- and vibration-absorbing effect. The small dimension/height of the clamp allows hydraulic cables to be fitted later on – e. g. for installing additional equipment to building machinery.

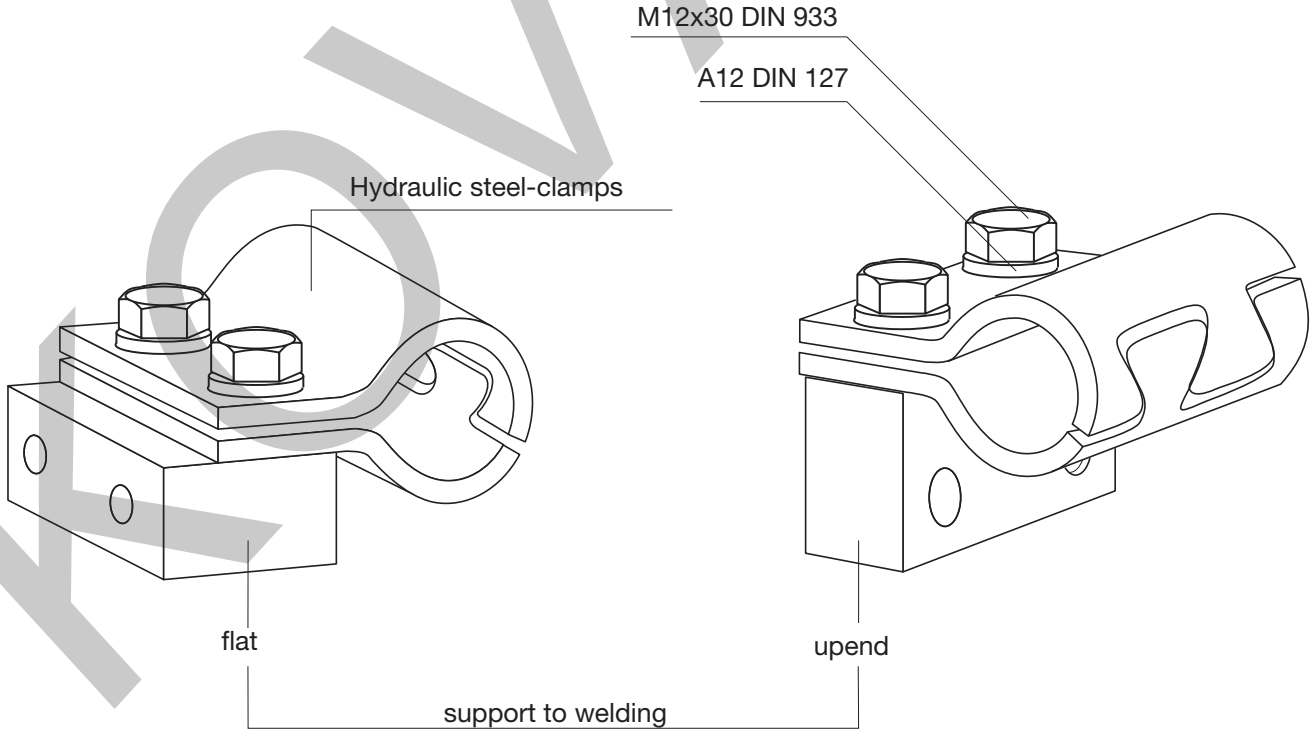








Order code		Dimensions	
Clamp incl. block	Clamp without block	Ø D	A
HSRS25	HSRS3-25CFX	25	52.5
HSRS30	HSRS3-30CFX	30	55.0
HSRS35	HSRS3-35CFX	35	57.5
HSRS38	HSRS3-38CFX	38	59.0
HSRS42	HSRS3-42CFX	42	61.0
HSRS48	HSRS3-48CFX	48	64.0
HSRS50	HSRS3-50CFX	50	65.0
HSRS60	HSRS3-60CFX	60	70.0



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Hydraulic steel-clamps

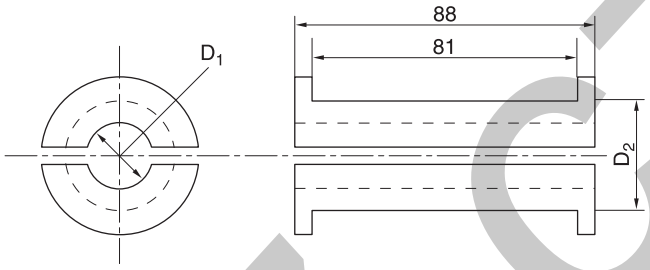
Elastomere Inlay for HSRS

Order code **EE-✱**
✱ complete outside tube diameter

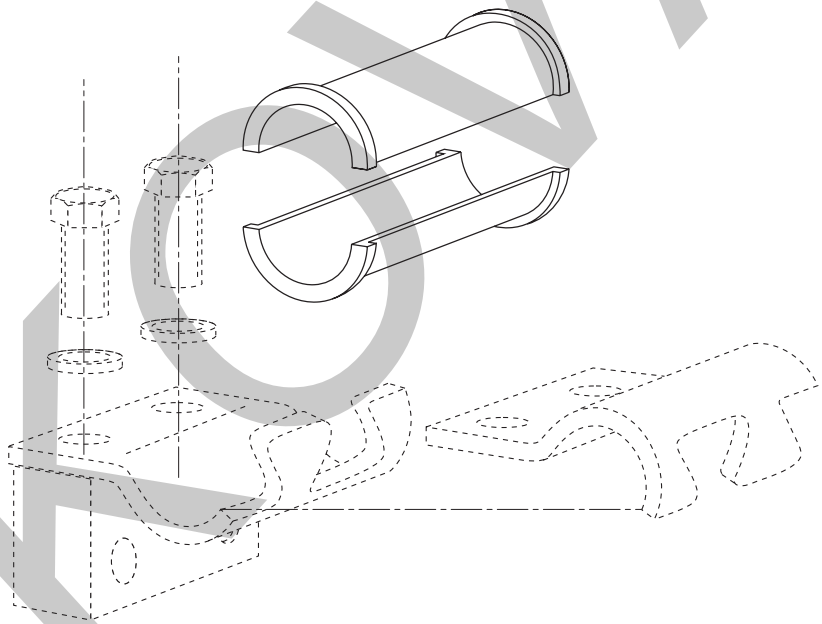
Hydraulic steel tube clamp HSRS also available with Elastomere inlay

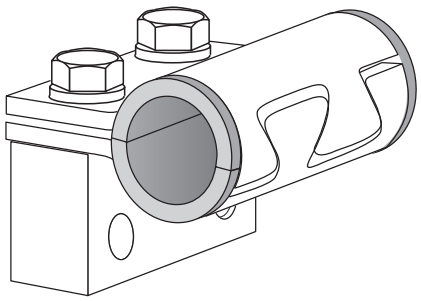
The advantages:
- complete outside tube diameter
- Safe fastening method even for very sensitive tube and hoses lines
- Only one clamp for different tube diameters

Material:
Santoprene 64 Shore
- high oil and weathering resistance
- temperature stability between –40 °C and +120°C



Order code Elastomere inlay	Nominal size D2	mm O.D. D1
EE12X	HSRS25	12
EE15X		15
EE20X	HSRS30	20
EE25X	HSRS35	25
EE30X	HSRS42	30
EE35X	HSRS50	35
EE38X		38
EE42X		42
EE47X	HSRS60	47
EE50X		50





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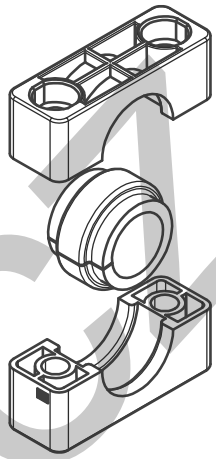
Tube Clamps with Elastomer Inlay Serie A



Clamp-halves

Order codes:

Polypropylene **– RAPE**
Polyamide 6 **– RANE**

If required, replace the standard indicator RAPE in the order code columns.

Elastomer Inlay

Order code:

TPE 73° Shore **– EE***

*complete with clamp size and outside tube diameter

Clamp size Serie A	Tube O.D. mm	Clamp body	Order code Clamp body with elastomer inlay	Elastomer inlay
4	6.0	RAPE4X	RAPE406X	EE206/406X
	8.0		RAPE408X	EE208/408X
	10.0		RAPE410X	EE210/410X
	12.0		RAPE412X	EE212/412X
	12.7		RAPE412.7X	EE212.7/412.7X
	14.0		RAPE414X	EE214/414X
	15.0		RAPE415X	EE215/415X
	16.0		RAPE416X	EE216/416X
	17.2		RAPE417.2X	EE217.2/417.2X
	18.0		RAPE418X	EE218/418X
	19.0		RAPE419X	EE219/419X
5	20.0	RAPE5X	RAPE520X	EE520X
	22.0		RAPE522X	EE522X
	25.0		RAPE525X	EE525X
	28.0		RAPE528X	EE528X
	30.0		RAPE530X	EE530X
6	20.0	RAPE6X	RAPE620X	EE320/620X
	21.3		RAPE621.3X	EE321.3/621.3X
	22.0		RAPE622X	EE322/622X
	23.0		RAPE623X	EE323/623X
	25.0		RAPE625X	EE325/625X
	26.9		RAPE626.9X	EE326.9/626.9X
	28.0		RAPE628X	EE328/628X
	30.0		RAPE630X	EE330/630X
	32.0		RAPE632X	EE332/632X
	35.0	RAPAE6X	RAPE635X	EE635X
	38.0		RAPE638X	EE638X
	42.0		RAPE642X	EE642X
	45.0		RAPE645X	EE645X

Attention! For clamps with elastomer inlay, the relation of diameter and size is not identical with the profile design or smooth design.

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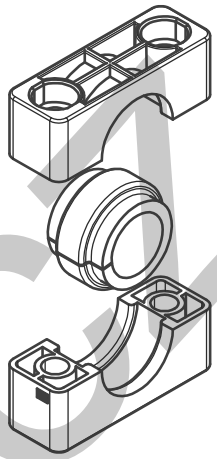
Tube Clamps with Elastomer Inlay Serie C



Clamp-halves

Order codes:

Polypropylene **– RCPE**
Polyamide 6 **– RCNE**

If required, replace the standard indicator RCPE in the order code columns.

Elastomer Inlay

Order code:

TPE 73° Shore **– EE***

*complete with clamp size and outside tube diameter

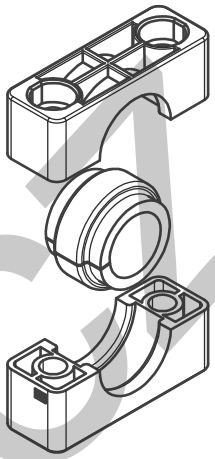
Clamp size Serie C	Tube O.D. mm	Clamp body	Order code Clamp body with elastomer inlay	Elastomer inlay
2	6.0	RCPE2X	**RCPE206X**	**EE206/406X**
	8.0		**RCPE208X**	**EE208/408X**
	10.0		**RCPE210X**	**EE210/410X**
	12.0		**RCPE212X**	**EE212/412X**
	12.7		**RCPE212.7X**	**EE212.7/412.7X**
	14.0		**RCPE214X**	**EE214/414X**
	15.0		**RCPE215X**	**EE215/415X**
	16.0		**RCPE216X**	**EE216/416X**
	17.2		**RCPE217.2X**	**EE217.2/417.2X**
	18.0		**RCPE218X**	**EE218/418X**
	19.0		**RCPE219X**	**EE219/419X**
3	20.0	RCPE3X	**RCPE320X**	**EE320/620X**
	21.3		**RCPE321.3X**	**EE321.3/621.3X**
	22.0		**RCPE322X**	**EE322/622X**
	23.0		**RCPE323X**	**EE323/623X**
	25.0		**RCPE325X**	**EE325/625X**
	26.9		**RCPE326.9X**	**EE326.9/626.9X**
	28.0		**RCPE328X**	**EE328/628X**
	30.0		**RCPE330X**	**EE330/630X**
	32.0		**RCPE332X**	**EE332/632X**
4	32.0	RCPE4X	**RCPE432X**	**EE432X**
	33.7		**RCPE433.7X**	**EE433.7X**
	35.0		**RCPE435X**	**EE435X**
	38.0		**RCPE438X**	**EE438X**
	40.0		**RCPE440X**	**EE440X**
	42.0		**RCPE442X**	**EE442X**
	45.5		**RCPE445.5X**	**EE445.5X**
	48.0		**RCPE448X**	**EE448X**
	51.0		**RCPE451X**	**EE451X**
	53.4		**RCPE453.4**	**EE453.4X**
	56.4		**RCPE456.4X**	**EE456.4X**
	60.3		**RCPE460.3X**	**EE460.3X**
5	57.0	RCPE5X	**RCPE557X**	**EE557X**
	60.3		**RCPE560.3X**	**EE560.3X**
	63.5		**RCPE563.5X**	**EE563.5X**
	65.0		**RCPE565X**	**EE565X**
	70.0		**RCPE570X**	**EE570X**
	73.0		**RCPE573X**	**EE573X**
	76.1		**RCPE576.1X**	**EE576.1X**

Attention! For clamps with elastomer inlay, the relation of diameter and size is not identical with the profile design or smooth design.

KOVAL

S

Tube Clamps with Elastomer Inlay Serie C



Clamp-halves

Order codes:

Polypropylene **– RCPE**
Polyamide 6 **– RCNE**

If required, replace the standard indicator RCPE in the order code columns.

Elastomer Inlay

Order code:

TPE 73° Shore **– EE***

*complete with clamp size and outside tube diameter

Clamp size	Tube O.D.	Order code		
		Clamp body	Clamp body with elastomer inlay	Elastomer inlay
Serie C	mm			
6	80.0	**RCPE6X**	**RCPE680X**	**EE680X**
	82.5		**RCPE682.5X**	**EE682.5X**
	88.9		**RCPE688.9X**	**EE688.9X**
	100.0		**RCPE6100X**	**EE6100X**
	101.6		**RCPE6101.6X**	**EE6101.6X**
7	101.6	**RCPE7X**	**RCPE7101.6X**	**EE7101.6X**
	108.0		**RCPE7108X**	**EE7108X**
	114.3		**RCPE7114.3X**	**EE7114.3X**
	127.0		**RCPE7127X**	**EE7127X**
	133.0		**RCPE7133X**	**EE7133X**

Attention! For clamps with elastomer inlay, the relation of diameter and size is not identical with the profile design or smooth design.

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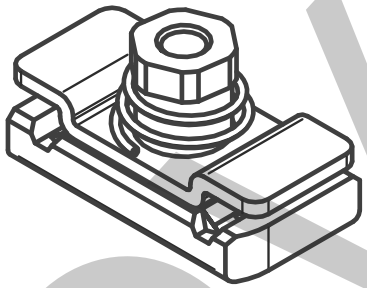
Fixed Adaptor

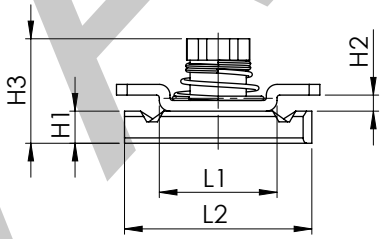
Compatibility with channel rails

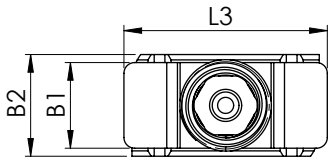
Hilti (Channel system MQ for medium load)	Halfen (Medium duty channel system)	Unistrut®
MQ-21, MQ-21U, MQ-21D	HM 41/22, HL 41/22, HM 41/22 D	P1000, P1000T, P1001, P1001T
MQ-31	HZM 41/22, HZL 41/22, HZM 41/22 D	P2000, P2000T
MQ-41, MQ-41U, MQ-41D	HM 41/41, HL 41/41, HM 41/41 D	P3300, P3300T10, P3301, P3301T10
MQ-52, MQ-52-72D	HZM 41/41, HZL 41/41, HZM 41/41 D	P4000, P4000T10
MQ-72, MQ-72U	HM 41/62, HL 41/62, HM 41/62 D	P5000T, P5001T, P5500T, P5501T
	HM 41/83, HL 41/83	

Please contact us to check compatibility with additional types of channel rails.

Fixed Adaptor for Series A







clamp size	Fixed adaptor **BAA/BAB** Order code	dimensions: L1	L2	L3	B1	B2	H1	H2	H3	d6
1										
2										
3										
4	**BAA/BAB1VZX** **BAA/BAB14571X**	22	35	38	16	19	6	3	19.5	M6
5										
6										
7										
8										

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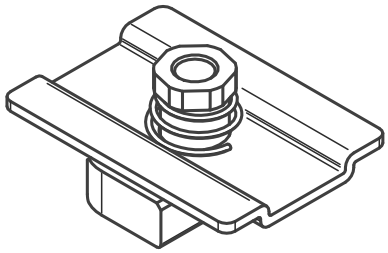
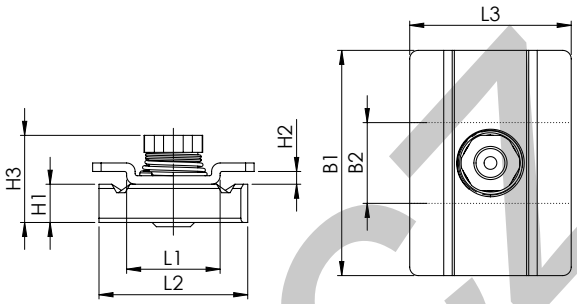
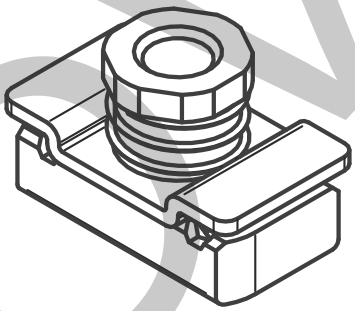
Fixed Adaptor for Series B

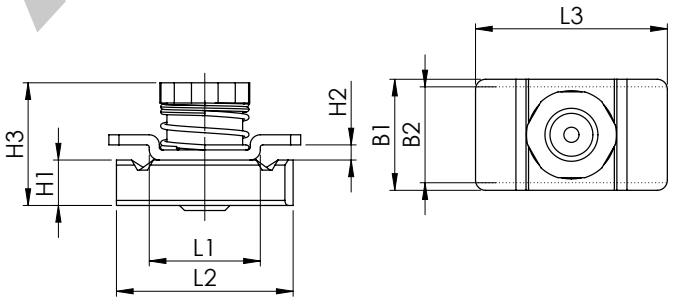




clamp size	Fixed adaptor **BAB** Order code	dimensions: L1	L2	L3	B1	B2	H1	H2	H3	d6
1	**BAA/BAB1VZX** **BAA/BAB14571X**	22	35	38	16	19	6	3	19.5	M6
2	**BAB2VZX** **BAB24571X**				53		9		23.5	M8
3										
4	**BAB4VZX** **BAB44571X**				80					
5										

Fixed Adaptor for Series C





clamp size	Fixed adaptor **BAC** Order code	dimensions: L1	L2	L3	B1	B2	H1	H2	H3	d6
1	**BAC1VZX** **BAC14571X**	22	35	38	22	19	9	3	24.3	M10
2										
3										
4	**BAC4VZX** **BAC44571X**			45	25				25.8	M12

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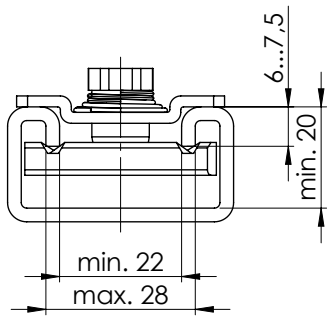
Recommended screw lengths when using fixed adaptor for series C

clamp size	Heaxgon head screw (with cover plate)	Hexagon socket head screw (without cover plate)	Stacking bolt
1	M10 x 40	M10 x 20*	M10 x 20*
2	M10 x 55*	M10 x 35*	M10 x 35*
3	M10 x 65*	M10 x 50*	M10 x 50*
4	M12 x 100	M12 x 75*	M12 x 75*

*For screws with special length (different from catalogue) price on request.



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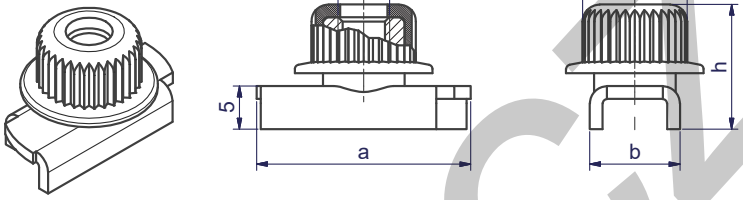
S

Railnut with loss protection



Rail nut light series **TMA/B1** Order code	Dimensions: a	b	c	m	h
TMA/TMB1WLPVZX	24.9	10.5	12	M6	14.5
TMA/TMB1WLP71X	24.9	10.5	12	M6	14.5

The big flange prevents that the railnut falls into the rail during installation and has a vibration and sound insulating function.
The rubbercap has an integrated screw locking device. Fast and easy to install, easy to adjust, especially for vertical installations.

Advantages:
- 40% time savings during installation
- Fast and easy to install
- Vibration and sound insulating function
- Especially for vertical installations

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