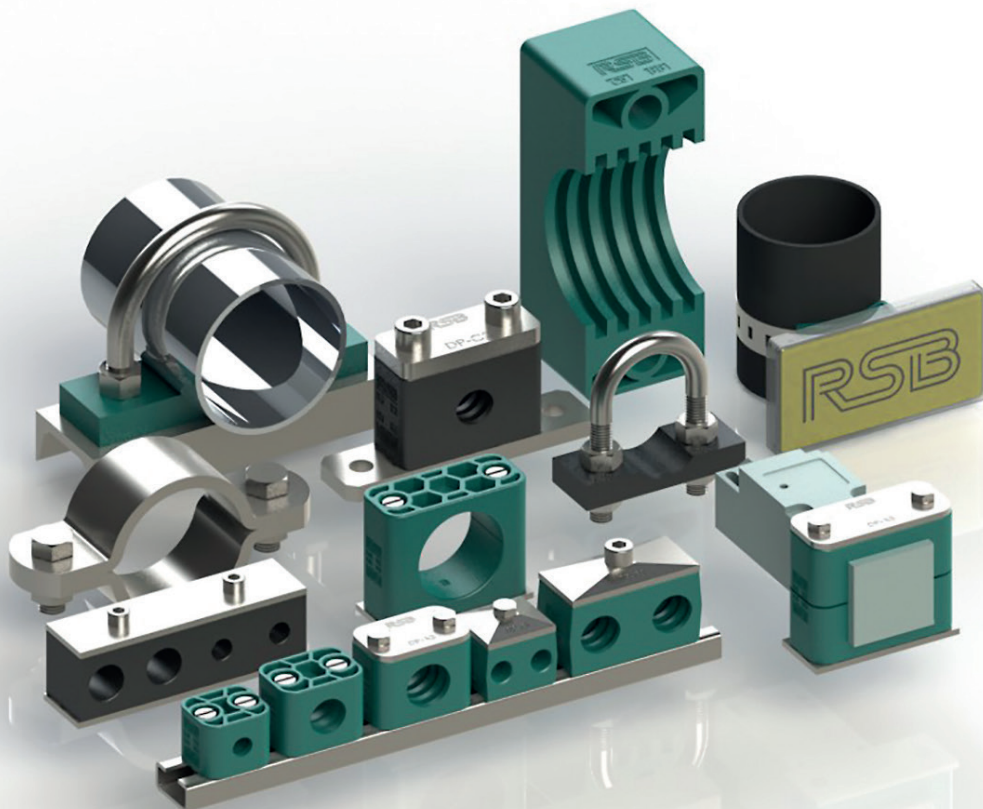




THE NEW DIMENSION OF FASTENING SYSTEMS

// TUBE CLAMPS FASTENING SYSTEMS



// 01

- 01 - 02 Tube clamps acc. to DIN 3015
- 03 Material properties
- 04 - 05 Special-materials for tube- and hose clamps
- 08 Assembly instructions
- 09 - 10 Technical data

// 03

- 29 - 35 Tube clamps Series B



// 05

- 60 - 65 Tube clamps with noise protection insert



// 07

- 79 - 82 Hydraulic steel clamp
- 83 - 87 U-bolts and tube saddles



// 02

- 11 - 25 Tube clamps Series A
- 12 - 13 The corrosion inhibitor - clamps made of PP-CR
- 20 Sensor clamps Series A
- 26 - 27 2+5 ... the system
- 67 - 71 Multiclamps



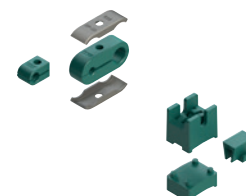
// 04

- 37 - 48 Tube clamps Series C
- 49 - 52 Twin clamp heavy series
- 53 - 56 Fixed adaptor
- 57 - 58 One rail for all



// 06

- 72 - 74 Tube clamps Series O
- 75 - 78 Tube fastening on a cylinder



// TYPES

Types of clamp bodies

The clamp bodies are available in these materials ex store:

- Polypropylene (dark green colour)
- Polyamide 6 (black colour)
- TPE (black colour)
- Aluminium

Upper and lower clamp halves are identical.
The inside of the clamp is available with or without grooves.

Grooves on the inside of the clamps have a vibration and impact reducing effect and absorb force towards the direction of the tube axis.

A spacing between both halves produces the prestress of the tube.

For the support of hoses and cables, we recommend to use clamps with an even inside without prestress. The spacing measure s_1 is not required. Thus, the block height h_1 is reduced.



Types of metal parts

As a regular feature of series A and B clamps, screws, rail nuts and cover plates are chromium VI free zinc coated, welding plates phosphatized and mounting rails uncoated.

As a regular feature of series C clamps, all metal parts are uncoated and phosphatized.

All metal parts of the different construction series are available ex stock in stainless steel type W5 (AISI 316).

Other surface treatments are available upon request.
UNC-threads are available upon request.

Metric thread	corresponding UNC-thread
M 6	$1/4 - 20$ UNC
M 8	$5/16 - 18$ UNC
M 10	$3/8 - 16$ UNC
M 12	$7/16 - 14$ UNC
M 16	$5/8 - 11$ UNC
M 20	$3/4 - 10$ UNC
M 24	$7/8 - 9$ UNC
M 30	$1 1/8 - 7$ UNC

// STRENGTH CLASSES

Type of screw	Material	Strength class
Slotted head screw SL	Steel	4.8 (nach DIN EN ISO 898-1)
	A2	A2-70 (nach DIN EN ISO 3506-1)
	A4	A4-70 (nach DIN EN ISO 3506-1)
Hexagon head screw SSL/SS	Steel	8.8 (nach DIN EN ISO 898-1)
	A2	A2-70 (nach DIN EN ISO 3506-1)
	A4	A4-70 (nach DIN EN ISO 3506-1)
Hexagon socket head screw IS	Steel	8.8 (nach DIN EN ISO 898-1)
	A2	A2-70 (nach DIN EN ISO 3506-1)
	A4	A4-70 (nach DIN EN ISO 3506-1)

// MATERIAL PROPERTIES

MECHANICAL PROPERTIES	<i>Polypropylene (PP)</i>	<i>Polyamide (PA 6)</i>	<i>Aluminium (Al)</i>	<i>Thermoplastic elastomer</i>
Density	0.90 g/cm ³	1.10 g/cm ³	2.65 g/cm ³	0.97 g/cm ³
Impact value at 23 °C / +73.4 °F	7 kJ/m ² (ISO 179/1eA)	8 kJ/mm ² (ISO 179/1eA)		
Impact value at -20 °C / -4 °F	3 kJ/m ² (ISO 179/1eA)			
Modulus of elasticity	1,400 N/mm ² (ISO 527)	2,000 N/mm ² (ISO 527)	72,000 N/mm ²	
Yield stress resp. tensile strength (Rm)	28 N/mm ² (ISO 527)	50 N/mm ² (ISO 527)	>240 N/mm ²	5.2 ... 8.8 N/mm ² (ASTM D412)

THERMAL PROPERTIES	<i>Polypropylene (PP)</i>	<i>Polyamide (PA 6)</i>	<i>Aluminium (Al)</i>	<i>Thermoplastic elastomer</i>
Temperature resistance	-30 ... +90 °C -22 ... +194 °F	-40 ... +120 °C -40 ... +248 °F	-40 ... +300 °C -40 ... +572 °F	-50 ... +120 °C -58 ... +248 °F

CHEMICAL PROPERTIES	<i>Polypropylene (PP)</i>	<i>Polyamide (PA 6)</i>	<i>Aluminium (Al)</i>	<i>Thermoplastic elastomer</i>
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

The outlined particulars are approximate values and are only valid as references, which are not binding, also with regard to possible protection of third parties, and 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 sense for construction purposes.

The application of the products is carried out outside our control, and therefore, is exclusively subject to your own area of responsibility. If, however, liability should be possible, it 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.

// PREVENTIVE FIRE PROTECTION

Material:	PA66-F	
EN 45545-2		
T01 EN ISO 4589-2:	Oxygen Index	OI = 35.5 %
T10.03 EN ISO 5659-2:	25 kW/m ²	D ₅ max. = 124
T12 NF X 70 100-1 & -2:	600 °C / 1112 °F	CIT _{NLP} = 0.51
Compliance of the requirement set R22 for the hazard level:		HL1 - HL2 - HL3
Compliance of the requirement set R23 for the hazard level:		HL1 - HL2 - HL3
Compliance of the requirement set R24 for the hazard level:		HL1 - HL2 - HL3
Compliance of the requirement set R26 for the hazard level:		HL1 - HL2 - HL3

Material:	PP-F	
EN 45545-2		
T01 EN ISO 4589-2:	Oxygen Index	OI = 38.7 %
T10.03 EN ISO 5659-2:	25 kW/m ²	D ₅ max. = 48
T12.NF X 70 100-1 & -2:	600 °C / 1112 °F	CIT _{NLP} = 0.15
Compliance of the requirement set R22 for the hazard level:		HL1 - HL2 - HL3
Compliance of the requirement set R23 for the hazard level:		HL1 - HL2 - HL3
Compliance of the requirement set R24 for the hazard level:		HL1 - HL2 - HL3
Compliance of the requirement set R26 for the hazard level:		HL1 - HL2 - HL3

Further fire safety tests on request.

SPECIAL MATERIALS FOR TUBE AND HOSE CLAMPS

Material:	TPE-F	
EN 45545-2		
T01 EN ISO 4589-2	Oxygen Index	OI = 33.4 %
T10.03 EN ISO 5659-2:	25 kW/m ²	D _s max. = 79
T12 NF X 70 100-1 & -2:	600 °C / 1112 °F	CIT _{NLP} = 0.15
Compliance of the requirement set R22 for the hazard level:		HL1 - HL2 - HL3
Compliance of the requirement set R23 for the hazard level:		HL1 - HL2 - HL3
Compliance of the requirement set R24 for the hazard level:		HL1 - HL2 - HL3
Compliance of the requirement set R26 for the hazard level:		HL1 - HL2 - HL3

SHIPBUILDING AND OFFSHORE SOLUTIONS

CORROSION-INHIBITING AND SOUND-ABSORBING | IN ACCORDANCE WITH DIN 3015

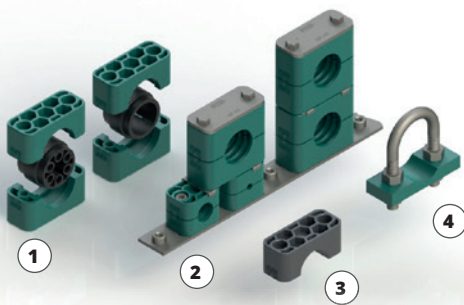
THE SHIPBUILDING AND OFFSHORE SOLUTION

- Systematic vibration insulation and structure-borne sound insulation
- Certified corrosion inhibitor in line with DIN EN ISO 9227
- Longer service life
- Increased maintenance intervals
- Greater durability of tubes and hydraulic lines

STANDARDS COMPLIANCE APPROVALS

- DNV-GL
- ABS (American Bureau of shipping)
- Bureau Veritas
- Lloyd's Register of Shipping

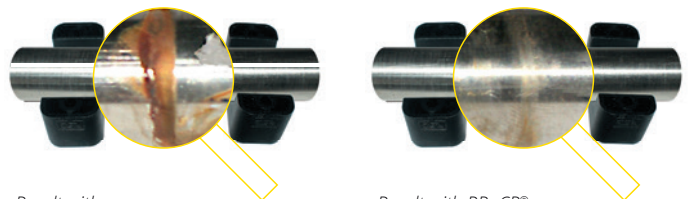
PRODUCTS



1. Tube clamps with noise protection insert
2. Tube clamps series 2+5
3. PP-CR® tube clamp
4. U-bolt

THE CORROSION INHIBITOR TUBE CLAMPS MADE FROM PP-CR®

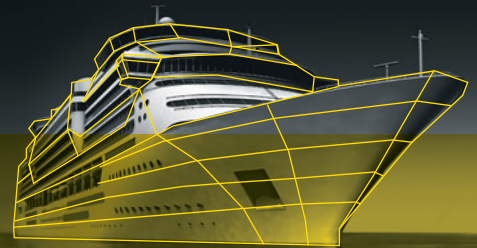
STAINLESS STEEL TUBE (1.4571) AFTER 4,500 HOURS SALT SPRAY TEST



Result with standard polypropylene

Result with PP -CR®

SAFETY WITH SYSTEM!



FLAME PROTECTED TUBE TUBE CLAMPS

OR IMPROVED RAILWAY VEHICLE SAFETY | IN ACCORDANCE WITH DIN 3015

THE ADVANTAGES

- Improved railway vehicle safety
- Flame protected in accordance with EN 45545-2, UL 94
- 2+5 system. Only 2 sizes for tube diameters 6 – 42 mm
- Plates and rails in steel and stainless steel

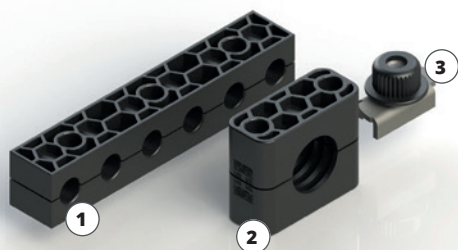
STANDARDS COMPLIANCE

FLAME PROTECTED TUBE CLAMPS ACC. TO
DIN 3015 CERTIFICATION IN LINE WITH

- EN 45545-2
- UL 94

SYSTEMATIC FOR IMPROVED SAFETY!

The well-known tube clamp range from RSB® has just got bigger. Now available as a flame protected version, it is the ideal solution for the transport and railway market. This means improved safety and efficiency for rail vehicles.



PRODUCTS

1. Multiclamp series A
2. Tube clamp series A
3. Visitec

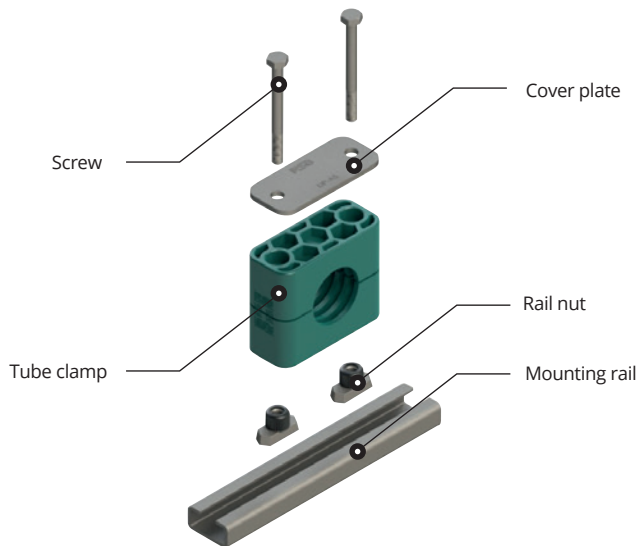
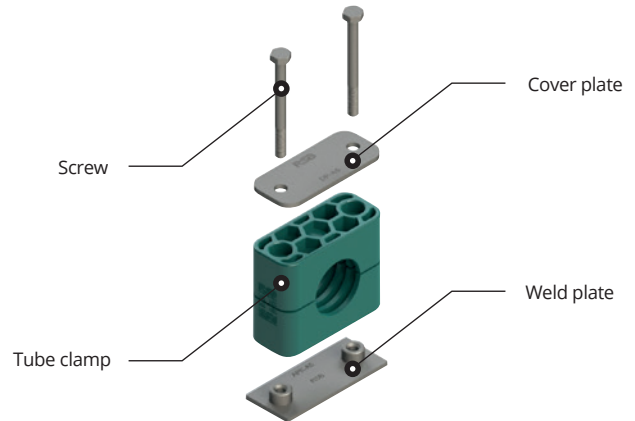
SAFETY WITH SYSTEM!



// ASSEMBLY INSTRUCTION

Assembly on metal welding plates

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

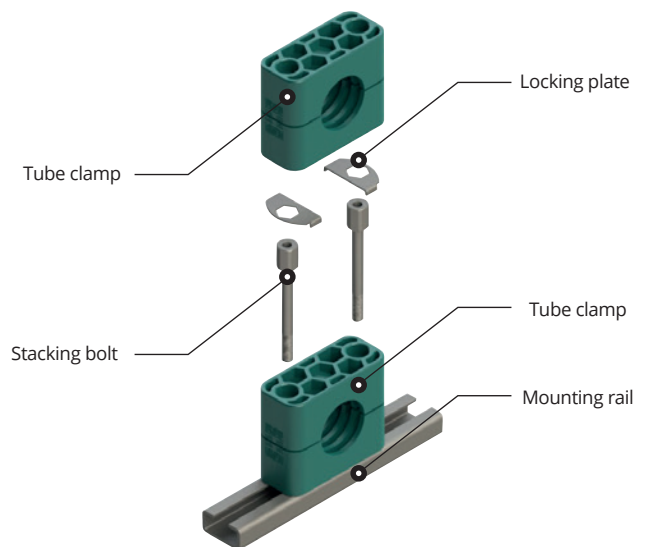


Assembly on mounting rails

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

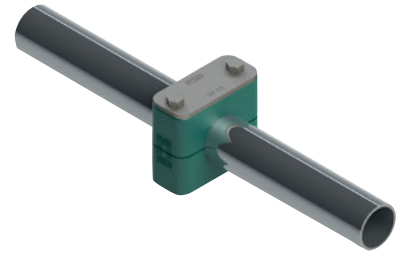
Stacking assembly

RSB-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 half on welding plate or mounting rail respectively, insert tube, place upper clamp half on lower half and fasten with fixing screws. The fixing screw juts out from the upper clamp half. The application of a locking plate securely fastens the fixing screw and prevents twisting. Clamp on second clamp half on to the fixing screws etc.



// SCREW TIGHTENING TORQUE AND AXIAL PIPE SHEARING FORCES

The indicated screw tightening torque and axial pipe shearing forces refer to the assembly with weld plates, cover plates and hexagon head bolts according to ISO 4014/4017 (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 presupposed (temperature during tests: 23 °C / 73.4 °F). When loading the RSB clamp with the indicated test force (F) in axial pipe direction, the pipe does not slide in the clamp.

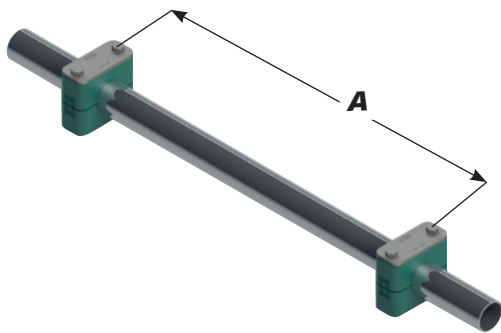


Light series (DIN 3015, part 1)														
SIZE	Fixing screw ISO 4014/4017 (DIN 931/933)		Polypropylene				Polyamide				Aluminium			
	Metric Thread	UNC Thread	Screw tightening torque		Pipe shearing force F		Screw tightening torque		Pipe shearing force F		Screw tightening torque		Pipe shearing force F	
			(Nm)	(ft-lb)	(kN)	(lbf)	(Nm)	(ft-lb)	(kN)	(lbf)	(Nm)	(ft-lb)	(kN)	(lbf)
0	M 6	¼-20 UNC	8	6	0.6	135	10	7	0.6	135				
1			8	6	1.1	247	10	7	0.7	157	12	9	4.2	944
2			8	6	1.2	270	10	7	0.8	180	12	9	4.3	967
3			8	6	1.4	315	10	7	1.6	360	12	9	4.8	1079
4			8	6	1.5	337	10	7	1.7	382	12	9	5.0	1124
5			8	6	1.9	427	10	7	2.0	450	12	9	7.3	1641
6			8	6	2.0	450	10	7	2.5	562	12	9	8.9	2000
7			8	6	2.3	517	10	7	3.2	719				
8			8	6	2.6	585	10	7	3.5	787				

Heavy series (DIN 3015, part 2)														
SIZE	Fixing screw ISO 4014/4017 (DIN 931/933)		Polypropylene				Polyamide				Aluminium			
	Metric Thread	UNC Thread	Screw tightening torque		Pipe shearing force F		Screw tightening torque		Pipe shearing force F		Screw tightening torque		Pipe shearing force F	
			(Nm)	(ft-lb)	(kN)	(lbf)	(Nm)	(ft-lb)	(kN)	(lbf)	(Nm)	(ft-lb)	(kN)	(lbf)
1	M 10	¾-16 UNC	12	9	1.6	360	20	15	4.2	944	30	22	12.1	2,720
2			12	9	2.9	652	20	15	4.5	1,044	30	22	15.1	3,395
3			15	11	3.3	742	25	18	5.1	1,146	35	26	15.5	3,485
4	M 12	7/16-14 UNC	30	22	8.2	1,843	40	30	9.3	2,090	55	41	29.4	6,609
5	M 16	5/8-11 UNC	45	33	11.0	2,472	55	41	15.8	3,551	120	89	34.8	7,823
6	M 20	¾-10 UNC	80	59	14.0	3,147	150	111	21.0	4,720	220	162	50.0	11,240
7	M 24	7/8-9 UNC	110	81	28.0	6,300	200	148	32.0	7,293	250	184	70.6	15,871
8	M 30	1 1/8-7 UNC	180	133	40.0	8,992	350	258	48.0	10,790	500	369	84.5	18,996
9			200	148	119.0	26,752	370	273	125.0	27,650	500	369	181.5	40,802
10			270	199	168.0	37,767	450	332	180.0	40,465	600	443	244.5	54,965

Double series (DIN 3015, part 3)														
SIZE	Fixing screw ISO 4014/4017 (DIN 931/933)		Polypropylene				Polyamide							
	Metric Thread	UNC Thread	Screw tightening torque		Pipe shearing force F		Screw tightening torque		Pipe shearing force F					
			(Nm)	(ft-lb)	(kN)	(lbf)	(Nm)	(ft-lb)	(kN)	(lbf)				
1	M 6	¼-20 UNC	5	4	0.9	202	6	4	0.9	202				
2	M 8	5/16-18 UNC	12	8	2.1	472	12	9	2.2	495				
3			12	8	1.9	427	12	9	2.0	450				
4			12	9	2.7	607	12	9	2.9	652				
5			8	6	1.7	382	8	6	2.5	562				

// RECOMMENDED CLAMP PITCH



The clamp pitches assigned to the respective outside pipe diameters are standard values for static load.

Outside pipe diameter (mm inch)		Clamp pitch A (m ft)	
6,0 - 12,7	0.24 - 0.50	1,0	3.28
12,7 - 22,0	0.50 - 0.87	1,2	3.94
22,0 - 32,0	0.87 - 1.26	1,5	4.92
32,0 - 38,0	1.26 - 1.50	2,0	6.56
38,0 - 57,0	1.50 - 2.24	2,7	8.86
57,0 - 75,0	2.24 - 2.95	3,0	9.84
75,0 - 76,1	2.95 - 3.00	3,5	11.48
76,1 - 88,9	3.00 - 3.50	3,7	12.14
88,9 - 102,0	3.50 - 4.02	4,0	13.12
102,0 - 114,0	4.02 - 4.49	4,5	14.76
114,0 - 168,0	4.49 - 6.61	5,0	16.40
168,0 - 219,0	6.61 - 8.62	6,0	19.69
219,0 - 324,0	8.62 - 12.76	6,7	21.98
324,0 - 356,0	12.76 - 14.02	7,0	22.97
356,0 - 406,0	14.02 - 15.98	7,5	24.61

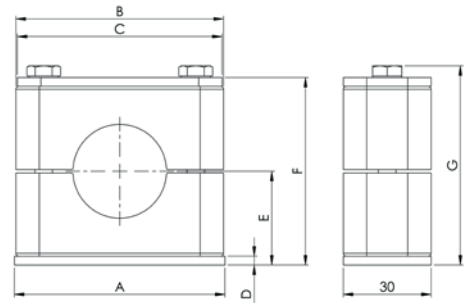
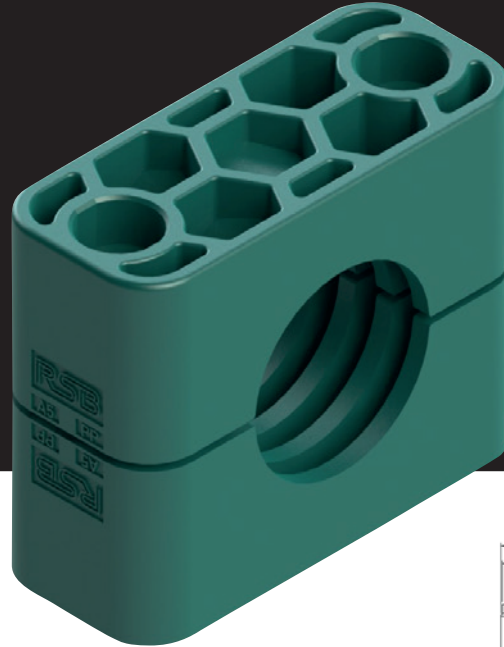
// PIPE BEND ASSEMBLY



Pipe bends must be fixed with RSB-pipe clamps immediately in front of and behind the bend.

// 02

TUBE CLAMPS SERIES



// DIMENSIONS AND WEIGHTS OF TUBE CLAMPS, COMPLETE (MM)

SIZE	A	B	C	D	E		F		G		WEIGHT / 10 PCS. RAPR3-xxx (kg)
					Grooved	Smooth	Grooved	Smooth	Grooved	Smooth	
0	30	28	28	3	16,5	16,2	33	32,4	37	36,4	0,66
	1.18	1.10	1.10	0.12	0.65	0.64	1.30	1.28	1.46	1.43	
1	36	34	34	3	16,5	16,2	33	32,4	37	36,4	0,82
	1.42	1.34	1.34	0.12	0.65	0.64	1.30	1.28	1.46	1.43	
2	42	42	40	3	19,5	19,1	39	38,2	43	42,2	0,98
	1.65	1.65	1.57	0.12	0.77	0.75	1.54	1.50	1.69	1.66	
3	50	49	48	3	20,5	20	41	40	45	44	1,14
	1.97	1.93	1.89	0.12	0.81	0.79	1.61	1.57	1.77	1.73	
4	59	59	57	3	24	23,4	48	46,8	52	50,8	1,36
	2.32	2.32	2.24	0.12	0.94	0.92	1.89	1.84	2.05	2.00	
5	72	71	70	3	32	31,4	64	62,8	68	66,8	1,83
	2.83	2.80	2.76	0.12	1.26	1.24	2.52	2.47	2.68	2.63	
6	88	86	86	3	36	35,4	72	70,8	76	74,8	2,22
	3.46	3.39	3.39	0.12	1.42	1.39	2.83	2.79	2.99	2.94	
7	122	121	120	5	51,8	51	103,6	102	107,6	106	4,55
	4.80	4.76	4.72	0.20	2.04	2.01	4.08	4.02	4.24	4.17	
8	148	147	146	5	63,8	63	127,6	126	131,6	130	6,18
	5.83	5.79	5.75	0.20	2.51	2.48	5.02	4.96	5.18	5.12	

The weight was determined with the smallest diameter (see catalogue) and the standard model of the steel parts of the respective quantity in bulk.

dimensions $\frac{\text{mm}}{\text{Inch}}$



THE SOLUTION FOR SUSCEPTIBLE TO CORROSION APPLICATIONS

PP-CR®



PP-CR has been developed based on our approved Polypropylene.

Crevice corrosion between the clamphalves and the tube is effectively retarded by a special corrosion inhibitor.

These properties have been tested and successfully approved in a salt spray test according to DIN EN ISO 9227.

Tube Clamps made of PP-CR are available in all standard dimensions of our approved RSB-TUBE CLAMP range.

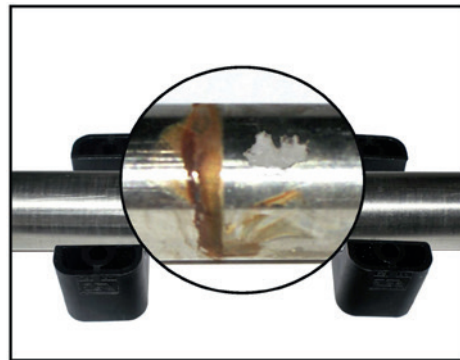
Tube Clamps made of PP-CR are available in slate gray colour.



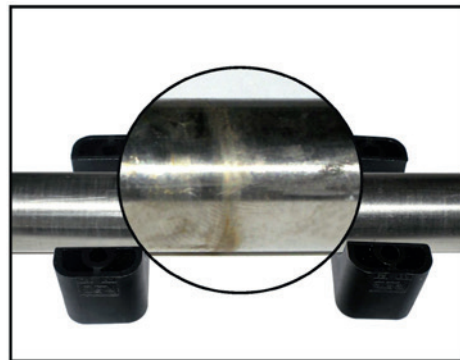
THE CORROSION INHIBITOR – TUBE CLAMPS MADE OF PP-CR®

clamp size	O.D. mm	Inch O.D.	1 part / 2 clamp-halves RAPG
1	4	$\frac{1}{4}$	RAPG-104/CR RAPG-106/CR RAPG-106,4/CR RAPG-108/CR RAPG-109,5/CR RAPG-110/CR RAPG-112/CR RAPG-112,7/CR
	6		
	6,4		
	8		
	9,5		
	10		
	12		
	12,7		
2	12,7	$\frac{1}{2}$	RAPG-212,7/CR RAPG-213,5/CR RAPG-214/CR RAPG-215/CR RAPG-216/CR RAPG-217,2/CR RAPG-218/CR
	13,5		
	14		
	15		
	16		
	17,2		
3	19	$\frac{3}{4}$	RAPG-319/CR RAPG-320/CR RAPG-321,3/CR RAPG-322/CR RAPG-323/CR RAPG-325/CR RAPG-325,4/CR
	20		
	21,3		
	22		
	23		
	25		
4	25,4	1	RAPG-426,9/CR RAPG-428/CR RAPG-430/CR
	26,9		
	28		
5	30	$1\frac{1}{4}$	RAPG-532/CR RAPG-533,7/CR RAPG-535/CR RAPG-538/CR RAPG-540/CR RAPG-542/CR
	32		
	33,7		
	35		
	38		
6	40	$1\frac{1}{2}$	RAPG-644,5/CR RAPG-645/CR RAPG-648/CR RAPG-650/CR RAPG-650,8/CR RAPG-652/CR RAPG-654/CR RAPG-655/CR RAPG-657/CR
	42		
	44,5		
	45		
	48		
	50		
	50,8		
52			
54			
55			
7	57	$2\frac{1}{4}$	RAPG-757,2/CR RAPG-760,3/CR RAPG-763,5/CR RAPG-770/CR RAPG-773/CR RAPG-776,1/CR
	57,2		
	60,3		
	63,5		
	70		
	73		
76,1			
8	88,9	$3\frac{1}{2}$	RAPG-888,9/CR RAPG-8101,8/CR
	101,8		
		4	

STAINLESS STEEL TUBE (316TI)
AFTER 4500 H SALT SPRAY TEST



Result with standard Polypropylene



Result with PP-CR

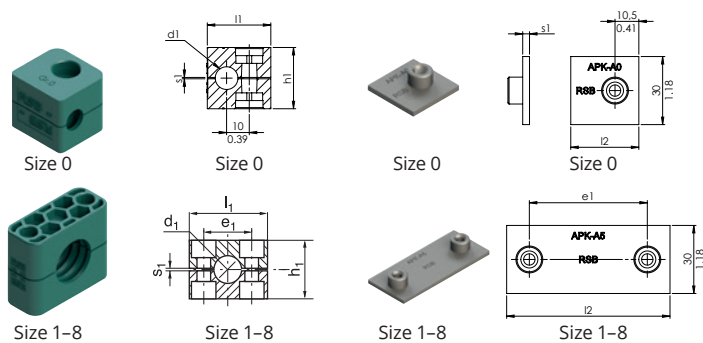
Advantages

- Enormous reduction of crevice corrosion
- Extension of maintenance intervals
- cost reduction due to extended durability of the tubing

Order codes for clamp-halves:

- Polypropylene **RAPR**
- inside smooth **RAPG²⁾**
- Polyamide 6 **RANR**
- inside smooth **RANG²⁾**
- Rubber **RAVR^{3) 4)}**
- RAVG^{2) 3)}**
- Aluminium **RAAR¹⁾**

Replace standard abbreviation RAPR in column "clamp-halves" as required.



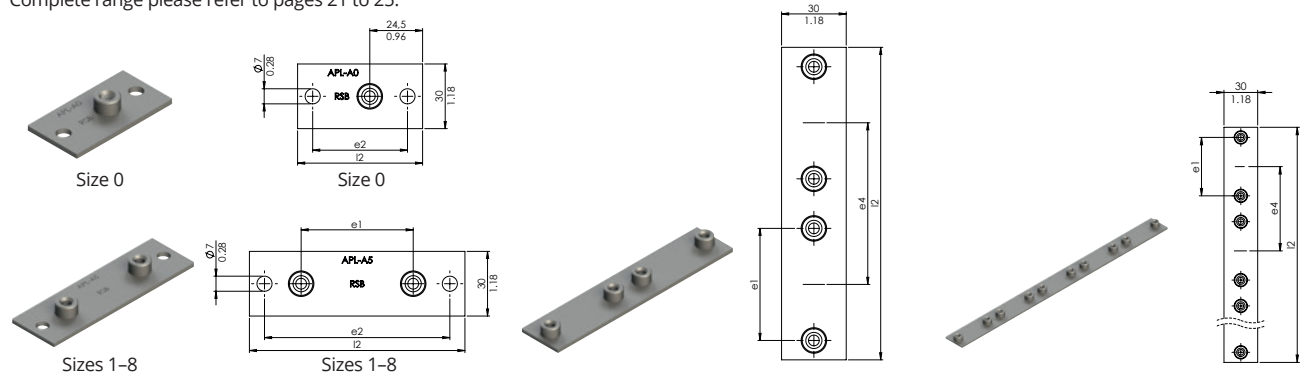
SIZE	O.D. mm d ₁	Tube NB	Inch O.D.	RAPR 1 part / 2 clamp-halves	RAPR-... 2 clamp-halves				APK-A Weld plate			
					l ₁	h ₁	e ₁	s ₁	e ₁	l ₂	s ₁	
0	4	G 1/8	1/4 5/16 3/8	RAPR-004 RAPR-006 RAPR-006,4 RAPR-008 RAPR-009,5 RAPR-010 RAPR-012	28	27	-	0,6	APK-A 0	-	30	3
	1.10				1.06	0.02		1.18				
1	4	G 1/8	1/4 5/16 3/8	RAPR-104 RAPR-106 RAPR-106,4 RAPR-108 RAPR-109,5 RAPR-110 RAPR-112	34	27	20	0,6	APK-A 1	20	36	3
	1.34				1.06	0.79	0.02	0.79		1.42	0.12	
2	12,7	G 1/4 G 3/8	1/2 5/8	RAPR-212,7 RAPR-213,5 RAPR-214 RAPR-215 RAPR-216 RAPR-217,2 RAPR-218	42	33	26	0,8	APK-A 2	26	42	3
	1.65				1.30	1.02	0.03	1.02		1.65	0.12	
3	19	G 1/2	3/4 1	RAPR-319 RAPR-320 RAPR-321,3 RAPR-322 RAPR-323 RAPR-325 RAPR-325,4	49	35	33	1	APK-A 3	33	50	3
	1.93				1.38	1.30	0.04	1.30		1.65	0.12	
4	26,9	G 3/4	1	RAPR-426,9 RAPR-428 RAPR-428,6 RAPR-430	59	42	40	1,2	APK-A 4	40	59	3
	2.32				1.65	1.57	0.05	1.57		2.32	0.12	
5	32	G 1 G 1 1/4	1 1/4 1 1/2	RAPR-532 RAPR-533,7 RAPR-535 RAPR-538 RAPR-540 RAPR-542	71	58	52	1,2	APK-A 5	52	72	3
	2.80				2.28	2.05	0.05	2.05		2.83	0.12	
6	44,5	G 1 1/2	1 3/4 2	RAPR-644,5 RAPR-645 RAPR-648 RAPR-650 RAPR-650,8 RAPR-652 RAPR-654 RAPR-655 RAPR-657	86	66	66	1,2	APK-A 6	66	88	3
	3.39				2.60	2.60	0.05	2.60		3.46	0.12	
7	57,2	G 2 G 2 1/2	2 1/4 2 1/2 2 3/4 3	RAPR-757,2 RAPR-760,3 RAPR-763,5 RAPR-770 RAPR-773 RAPR-776,1	121	93,6	94	1,6	APK-A 7	94	122	5
	4.76				3.69	3.70	0.06	3.70		4.80	0.20	
8	88,9	G 3 G 3 1/2	3 1/2 4	RAPR 888,9 RAPR 8101,8	147	117,6	120	1,6	APK-A 8	120	148	5
	5.79				4.63	4.72	0.06	4.72		5.83	0.20	

dimensions mm
Inch

All metal parts available in stainless steel. ¹⁾Aluminium in sizes 0 to 6
²⁾without prestress ³⁾When assembling solid rubber tube clamps, cover plates, hexagon screws and locking washers must be used ⁴⁾Rubber in sizes 1 to 5w



Complete range please refer to pages 21 to 25.



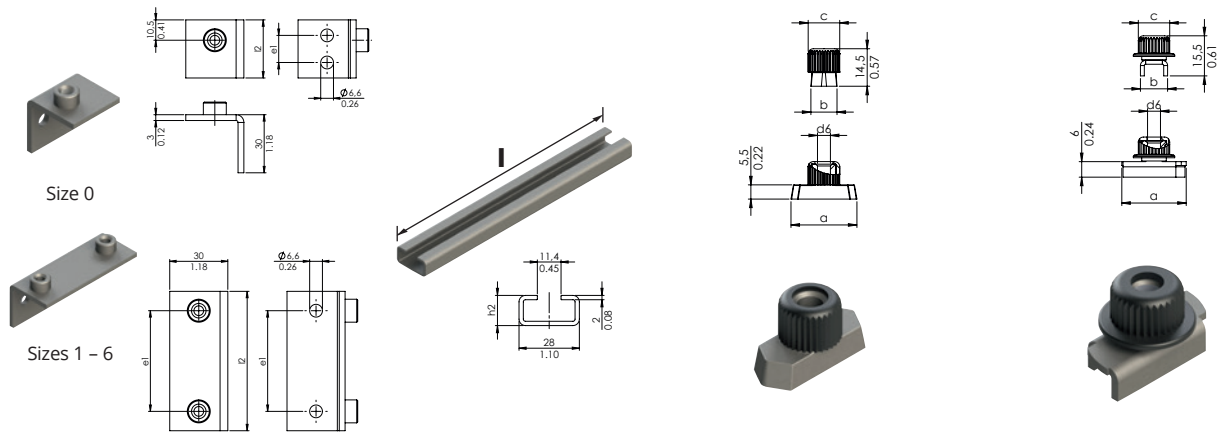
SIZE	APL-A <i>Weld- and screwplate, elongated</i>			APD-A <i>Weldplate, double</i>			APR-A <i>Multiple weld plate</i>					
		e ₁	l ₂	e ₂		e ₁	e ₄	l ₂		e ₁	e ₄	l ₂
0	APL-A 0	-	58	44	APD-A 0	-	30	61	APR-A 0 10 Clamps	-	30	298
			2.28	1.73			1.18	2.40			1.18	11.70
1	APL-A 1	20	64	50	APD-A 1 APDL-A 1	20	35	69	APR-A 1 APRL-A 1 10 Clamps	20	35	349
		0.79	2.52	1.97		0.79	40	76		0.79	40	394
						1.57	2.99			1.57	15.50	
2	APL-A 2	26	70	56	APD-A 2 APDL-A 2	26	43	86	APR-A 2 APRL-A 2 10 Clamps	20	53	349
		1.02	2.76	2.20		1.02	52	94		0.79	40	394
						2.05	3.70			1.57	15.50	
3	APL-A 3	33	78	64	APD-A 3 APDL-A 3	33	52	104	APR-A 3 APRL-A 3 10 Clamps	20	35	349
		1.30	3.07	2.52		1.30	2.05	4.09		0.79	40	394
						2.95	4.92			1.57	15.50	
4	APL-A 4	40	87	73	APD-A 4	40	60	117	APR-A 4 5 Clamps	40	60	297
		1.57	3.43	2.87		1.57	2.36	4.61		1.57	2.36	11.70
5	APL-A 5	52	100	86	APD-A 5	52	75	145	APR-A 5 5 Clamps	52	75	370
		2.05	3.94	3.39		2.05	2.95	5.71		2.05	2.95	14.60
6	APL-A 6	66	116	100	APD-A 6	66	90	176	APR-A 6 5 Clamps	66	90	446
		2.60	4.57	3.94		2.60	3.54	6.93		2.60	3.54	17.60
7	APL-A 7	94	150	136								
		3.70	5.91	5.35								
8	APL-A 8	120	178	162								
		4.72	7.01	6.38								

dimensions $\frac{\text{mm}}{\text{Inch}}$

All metal parts available in stainless steel.



Complete range please refer to pages 21 to 25.



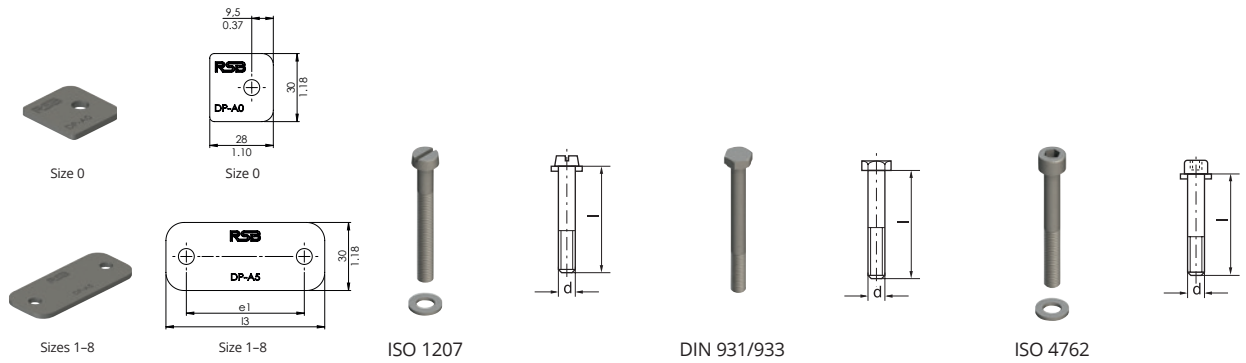
SIZE	APW-A Weld plate, angled		TS-A/B Mounting rail		TM-A/B 1 Rail nut				TM-A/B 1 Visitec																																																																						
	e ₁	l ₂	l	h ₂	a	b	c	d ₆	a	b	c	d ₆																																																																			
0	APW-A 0	14	30	TS 11-A/B 1 TS 11-A/B 2 TS 14-A/B 1 TS 14-A/B 2 TS 30-A/B 1 TS 30-A/B 2	1 m 3.28 ft 2 m 6.56 ft 1 m 3.28 ft 2 m 6.56 ft 1 m 3.28 ft 2 m 6.56 ft	TM-A (TM-B1)	25,4	10,4	12	M 6	24,9	10,5	12	M 6																																																																	
		0.55	1.18												1.00	0.41	0.47	¼-20 UNC	0.98	0.41	0.47	¼-20 UNC																																																									
1	APW-A 1	20	36												1 m	11	TM-A (TM-B1)	25,4	10,4	12	M 6	24,9	10,5	12	M 6																																																						
		0.79	1.42												3.28 ft	0.43										1.00	0.41	0.47	¼-20 UNC	0.98	0.41	0.47	¼-20 UNC																																														
2	APW-A 2	26	42												2 m	11										TM-A (TM-B1)	25,4	10,4	12	M 6	24,9	10,5	12	M 6																																													
		1.02	1.65												6.56 ft	0.43																			1.00	0.41	0.47	¼-20 UNC	0.98	0.41	0.47	¼-20 UNC																																					
3	APW-A 3	33	50												1 m	14																			TM-A (TM-B1)	25,4	10,4	12	M 6	24,9	10,5	12	M 6																																				
		1.30	1.97												3.28 ft	0.55																												1.00	0.41	0.47	¼-20 UNC	0.98	0.41	0.47	¼-20 UNC																												
4	APW-A 4	40	59												2 m	14																												TM-A (TM-B1)	25,4	10,4	12	M 6	24,9	10,5	12	M 6																											
		1.57	2.32												6.56 ft	0.55																																					1.00	0.41	0.47	¼-20 UNC	0.98	0.41	0.47	¼-20 UNC																			
5	APW-A 5	52	72												1 m	30																																					TM-A (TM-B1)	25,4	10,4	12	M 6	24,9	10,5	12	M 6																		
		2.05	2.83												3.28 ft	1.18																																														1.00	0.41	0.47	¼-20 UNC	0.98	0.41	0.47	¼-20 UNC										
6	APW-A 6	66	88												2 m	30																																														TM-A (TM-B1)	25,4	10,4	12	M 6	24,9	10,5	12	M 6									
		2.60	3.46												6.56 ft	1.18																																																							1.00	0.41	0.47	¼-20 UNC	0.98	0.41	0.47	¼-20 UNC	
7																																																																							TM-A (TM-B1)	25,4	10,4	12	M 6	24,9	10,5	12	M 6
8																																																																															

dimensions $\frac{\text{mm}}{\text{Inch}}$

All metal parts available in stainless steel.



Complete range please refer to pages 21 to 25.



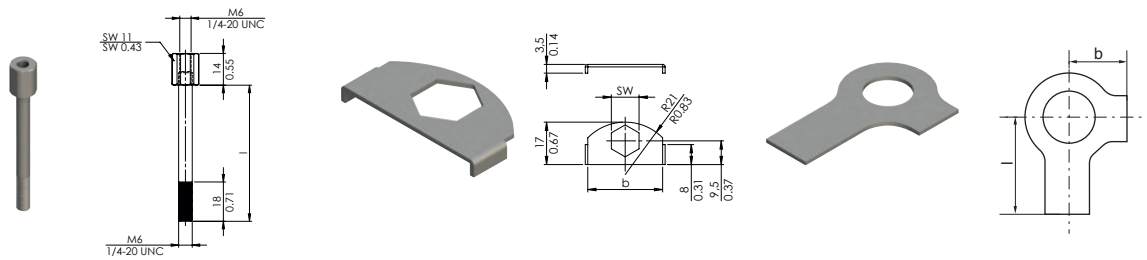
SIZE	DP-A Cover plate		SL-A Slotted head screw		SSL-A Hexagon head screw		IS-A Hexagon socket head screw	
	l ₃	e ₁	d	x	l	d	x	l
0	28 1.10	7 0.28	SL-A 0 / A 1	M 6 x 20 ¼-20 UNC x ¾	SSL-A 0 / A 1	M 6 x 30 ¼-20 UNC x 1¼	IS-A 0 / A 1	M 6 x 20 ¼-20 UNC x ¾
1	34 1.34	20 0.79	SL-A 0 / A 1	M 6 x 20 ¼-20 UNC x ¾	SSL-A 0 / A 1	M 6 x 30 ¼-20 UNC x 1¼	IS-A 0 / A 1	M 6 x 20 ¼-20 UNC x ¾
2	40 1.57	26 1.02	SL-A 2	M 6 x 25 ¼-20 UNC x 1	SSL-A 2 (SS-B 1)	M 6 x 35 ¼-20 UNC x 1¾	IS-A 2	M 6 x 25 ¼-20 UNC x 1
3	48 1.89	33 1.30	SL-A 3	M 6 x 30 ¼-20 UNC x 1½	SSL-A 3	M 6 x 40 ¼-20 UNC x 1½	IS-A 3	M 6 x 30 ¼-20 UNC x 1½
4	57 2.24	40 1.57	SL-A 4	M 6 x 35 ¼-20 UNC x 1¾	SSL-A 4	M 6 x 45 ¼-20 UNC x 1¾	IS-A 4 (IS-B 1)	M 6 x 35 ¼-20 UNC x 1¾
5	70 2.76	52 2.05	SL-A 5	M 6 x 50 ¼-20 UNC x 2	SSL-A 5	M 6 x 60 ¼-20 UNC x 2¾	IS-A 5	M 6 x 50 ¼-20 UNC x 2
6	86 3.39	66 2.60	SL-A 6	M 6 x 60 ¼-20 UNC x 2¼	SSL-A 6	M 6 x 70 ¼-20 UNC x 2¾	IS-A 6	M 6 x 60 ¼-20 UNC x 2¼
7	120 4.72	94 3.70	SL-A 7	M 6 x 90 ¼-20 UNC x 3½	SSL-A 7	M 6 x 100 ¼-20 UNC x 4	IS-A 7	M 6 x 90 ¼-20 UNC x 3½
8	146 5.75	120 4.72	SL-A 8	M 6 x 110 ¼-20 UNC x 4¾	SSL-A 8	M 6 x 125 ¼-20 UNC x 4¾	IS-A 8	M 6 x 110 ¼-20 UNC x 4¾

dimensions $\frac{\text{mm}}{\text{Inch}}$

All metal parts available in stainless steel.



Complete range please refer to pages 21 to 25.



SIZE	AS-A Stacking bolt ¹⁾		SBR-A Locking plate ¹⁾			US-A Locking washer ²⁾						
		l		b	SW		b	l				
0	AS-A 0 / A 1 (AS-B1)	20	SBR-A	30	11	US-A	9	18				
		0.79										
1	AS-A 0 / A 1 (AS-B1)	20										
		0.79										
2	AS-A 2	25										
		0.98										
3	AS-A 3	28										
		1.10										
4	AS-A 4	34							1.18	0.43	0.35	0.71
		1.34										
5	AS-A 5	50										
		1.97										
6	AS-A 6	60										
		2.36										
7	AS-A 7	85										
		3.35										
8	AS-A 8	110										
		4.33										

dimensions $\frac{\text{mm}}{\text{Inch}}$

All metal parts available in stainless steel.

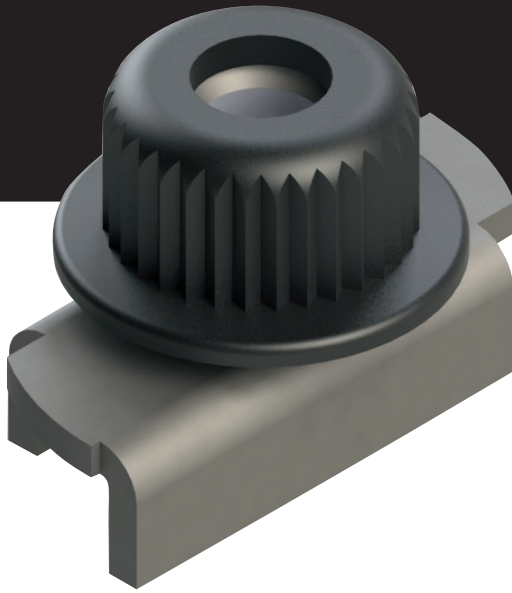
¹⁾The usage of stacking bolts necessitates the use of locking plates during the construction assembly

²⁾When assembling solid rubber clamps, cover plates, hexagon screws and locking washers must be used



VISITEC

THE RAILNUT WITH LOSS PROTECTION



LIGHT SERIES

Order Code:

TM-A/B1 VISITEC 1.4571

TM-A/B1 VISITEC ZN

Available in zinc plated version and in stainless steel 1.4571

ADVANTAGES

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

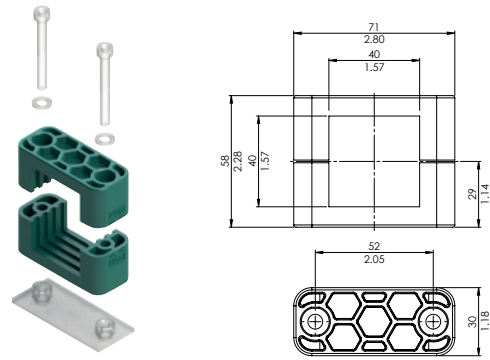
The big flange prevents that the railnut falls into the rail during installation and has a vibration and sound insulating function.

The rubbercap has an integrated screw locking device. Fast and easy to install, easy to adjust, especially for vertical installations.

Order codes

for clamp-halves:

Polypropylene **RAPS-540**
 Polyamide 6 **RANS-540**
 Rubber **RAVS-540**

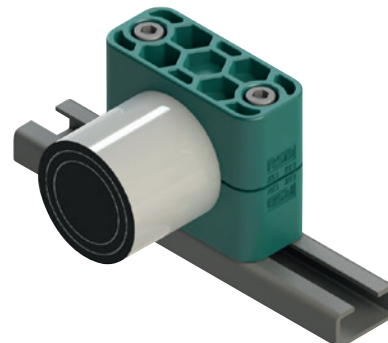


1 piece = 2 clamp halves

Fixing clamp for proximity switch built to EN 50 025 and 50 037 with square casing 40 x 40 mm (1.57 x 1.57 in). The sensors can be adjusted axially and laterally when mounted on mounting rails. Accessory materials same as in Series A, size 5.



Series A tube clamps of suitable diameter can be used for fixing proximity switches with a cylindrical casing built according to EN 50 008, 50 036 and 50 040 or similar.



TUBE CLAMPS SERIES A | COMPLETE RANGE

Order codes for clamp-halves:

Polypropylene **RAPR**
 inside smooth **RAPG**
 Polyamide 6 **RANR**
 inside smooth **RANG**
 Rubber **RAVR^{3) 4)}**
RAVG³⁾
 Aluminium **RAAR²⁾**

Replace standard abbreviation RAPR in column "Order codes" as required.

2 clamp halves with weld plate, slotted head screws and washer

2 clamp halves with weld plate, hexagon socket head screws and washer

2 clamp halves with weld plate, cover plate and hexagon head screws



SIZE	O.D. mm	Tube NB	Inch O.D.	Order Codes	Order Codes	Order Codes
0 ¹⁾	4	G 1/8	1/4	RAPR 1-004 RAPR 1-006 RAPR 1-006,4 RAPR 1-008 RAPR 1-009,5 RAPR 1-010 RAPR 1-012	RAPR 2-004 RAPR 2-006 RAPR 2-006,4 RAPR 2-008 RAPR 2-009,5 RAPR 2-010 RAPR 2-012	RAPR 3-004 RAPR 3-006 RAPR 3-006,4 RAPR 3-008 RAPR 3-009,5 RAPR 3-010 RAPR 3-012
	6					
	6,4					
	8					
	9,5					
	10					
1	4	G 1/8	1/4	RAPR 1-104 RAPR 1-106 RAPR 1-106,4 RAPR 1-108 RAPR 1-109,5 RAPR 1-110 RAPR 1-112	RAPR 2-104 RAPR 2-106 RAPR 2-106,4 RAPR 2-108 RAPR 2-109,5 RAPR 2-110 RAPR 2-112	RAPR 3-104 RAPR 3-106 RAPR 3-106,4 RAPR 3-108 RAPR 3-109,5 RAPR 3-110 RAPR 3-112
	6					
	6,4					
	8					
	9,5					
	10					
2	12,7	G 1/4	1/2	RAPR 1-212,7 RAPR 1-213,5 RAPR 1-214 RAPR 1-215 RAPR 1-216 RAPR 1-217,2 RAPR 1-218	RAPR 2-212,7 RAPR 2-213,5 RAPR 2-214 RAPR 2-215 RAPR 2-216 RAPR 2-217,2 RAPR 2-218	RAPR 3-212,7 RAPR 3-213,5 RAPR 3-214 RAPR 3-215 RAPR 3-216 RAPR 3-217,2 RAPR 3-218
	13,5					
	14					
	15	G 3/8	5/8	RAPR 1-219,5 RAPR 1-220,5 RAPR 1-221,5 RAPR 1-222,5 RAPR 1-223,5 RAPR 1-224,5 RAPR 1-225,5	RAPR 2-219,5 RAPR 2-220,5 RAPR 2-221,5 RAPR 2-222,5 RAPR 2-223,5 RAPR 2-224,5 RAPR 2-225,5	RAPR 3-219,5 RAPR 3-220,5 RAPR 3-221,5 RAPR 3-222,5 RAPR 3-223,5 RAPR 3-224,5 RAPR 3-225,5
	16					
	17,2					
18						
3	19	G 1/2	3/4	RAPR 1-319 RAPR 1-320 RAPR 1-321,3 RAPR 1-322 RAPR 1-323 RAPR 1-325 RAPR 1-325,4	RAPR 2-319 RAPR 2-320 RAPR 2-321,3 RAPR 2-322 RAPR 2-323 RAPR 2-325 RAPR 2-325,4	RAPR 3-319 RAPR 3-320 RAPR 3-321,3 RAPR 3-322 RAPR 3-323 RAPR 3-325 RAPR 3-325,4
	20					
	21,3					
	22					
	23					
	25					
25,4						
4	26,9	G 3/4	1	RAPR 1-426,9 RAPR 1-428 RAPR 1-428,6 RAPR 1-430	RAPR 2-426,9 RAPR 2-428 RAPR 2-428,6 RAPR 2-430	RAPR 3-426,9 RAPR 3-428 RAPR 3-428,6 RAPR 3-430
	28					
	28,6					
	30					
5	32	G 1	1 1/4	RAPR 1-532 RAPR 1-533,7 RAPR 1-535 RAPR 1-538 RAPR 1-540 RAPR 1-542	RAPR 2-532 RAPR 2-533,7 RAPR 2-535 RAPR 2-538 RAPR 2-540 RAPR 2-542	RAPR 3-532 RAPR 3-533,7 RAPR 3-535 RAPR 3-538 RAPR 3-540 RAPR 3-542
	33,7					
	35					
	38	G 1 1/4	1 1/2	RAPR 1-544 RAPR 1-545 RAPR 1-546 RAPR 1-547 RAPR 1-548 RAPR 1-549	RAPR 2-544 RAPR 2-545 RAPR 2-546 RAPR 2-547 RAPR 2-548 RAPR 2-549	RAPR 3-544 RAPR 3-545 RAPR 3-546 RAPR 3-547 RAPR 3-548 RAPR 3-549
	40					
	42					
6	44,5	G 1 1/2	1 3/4	RAPR 1-644,5 RAPR 1-645 RAPR 1-648 RAPR 1-650 RAPR 1-650,8 RAPR 1-652 RAPR 1-654 RAPR 1-655 RAPR 1-657	RAPR 2-644,5 RAPR 2-645 RAPR 2-648 RAPR 2-650 RAPR 2-650,8 RAPR 2-652 RAPR 2-654 RAPR 2-655 RAPR 2-657	RAPR 3-644,5 RAPR 3-645 RAPR 3-648 RAPR 3-650 RAPR 3-650,8 RAPR 3-652 RAPR 3-654 RAPR 3-655 RAPR 3-657
	45					
	48					
	50					
	50,8		2	RAPR 1-658 RAPR 1-659 RAPR 1-660 RAPR 1-661 RAPR 1-662 RAPR 1-663 RAPR 1-664 RAPR 1-665 RAPR 1-666	RAPR 2-658 RAPR 2-659 RAPR 2-660 RAPR 2-661 RAPR 2-662 RAPR 2-663 RAPR 2-664 RAPR 2-665 RAPR 2-666	RAPR 3-658 RAPR 3-659 RAPR 3-660 RAPR 3-661 RAPR 3-662 RAPR 3-663 RAPR 3-664 RAPR 3-665 RAPR 3-666
	52					
	54					
	55					
57						
7	57,2	G 2	2 1/4	RAPR 1-757,2 RAPR 1-760,3 RAPR 1-763,5 RAPR 1-770 RAPR 1-773 RAPR 1-776,1	RAPR 2-757,2 RAPR 2-760,3 RAPR 2-763,5 RAPR 2-770 RAPR 2-773 RAPR 2-776,1	RAPR 3-757,2 RAPR 3-760,3 RAPR 3-763,5 RAPR 3-770 RAPR 3-773 RAPR 3-776,1
	60,3					
	63,5					
	70	G 2 1/2	3	RAPR 1-777 RAPR 1-778 RAPR 1-779 RAPR 1-780 RAPR 1-781 RAPR 1-782	RAPR 2-777 RAPR 2-778 RAPR 2-779 RAPR 2-780 RAPR 2-781 RAPR 2-782	RAPR 3-777 RAPR 3-778 RAPR 3-779 RAPR 3-780 RAPR 3-781 RAPR 3-782
	73					
	76,1					
8	88,9	G 3	3 1/2	RAPR 1-888,9 RAPR 1-8101,8	RAPR 2-888,9 RAPR 2-8101,8	RAPR 3-888,9 RAPR 3-8101,8
	101,8					

If different combinations are required, we would be obliged if they could be ordered as separate components (Please refer to individual components, pages 14 – 18). Delivery in unassembled individual components. ¹⁾Contrary to illustration size 0 clamps are secured by only one screw ²⁾Aluminium in sizes 0 to 6 ³⁾When assembling solid rubber tube clamps, cover plates, hexagon screws and locking washers must be used ⁴⁾Rubber in sizes 1 to 5

TUBE CLAMPS SERIES A | COMPLETE RANGE

Order codes for clamp-halves:

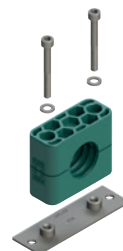
Polypropylene	RAPR
inside smooth	RAPG
Polyamide 6	RANR
inside smooth	RANG
Rubber	RAVR^{3) 4)}
	RAVG³⁾
Aluminium	RAAR²⁾

Replace standard abbreviation RAPR in column "clamp-halves" as required.

2 clamp halves with weld/screw plate, slotted head screws and washer



2 clamp halves with weld/screw plate, hexagon socket head screws and washer



2 clamp halves with weld/screw plate, cover plate and hexagon head screws



SIZE	O.D. mm	Tube NB	Inch O.D.	Order Codes	Order Codes	Order Codes
0 ¹⁾	4	G 1/8	1/4	RAPR 4-004	RAPR 5-004	RAPR 6-004
	6			RAPR 4-006	RAPR 5-006	RAPR 6-006
	6,4			RAPR 4-006,4	RAPR 5-006,4	RAPR 6-006,4
	8			RAPR 4-008	RAPR 5-008	RAPR 6-008
	9,5			RAPR 4-009,5	RAPR 5-009,5	RAPR 6-009,5
	10			RAPR 4-010	RAPR 5-010	RAPR 6-010
12	RAPR 4-012	RAPR 5-012	RAPR 6-012			
1	4	G 1/8	1/4	RAPR 4-104	RAPR 5-104	RAPR 6-104
	6			RAPR 4-106	RAPR 5-106	RAPR 6-106
	6,4			RAPR 4-106,4	RAPR 5-106,4	RAPR 6-106,4
	8			RAPR 4-108	RAPR 5-108	RAPR 6-108
	9,5			RAPR 4-109,5	RAPR 5-109,5	RAPR 6-109,5
	10			RAPR 4-110	RAPR 5-110	RAPR 6-110
12	RAPR 4-112	RAPR 5-112	RAPR 6-112			
2	12,7	G 1/4	1/2	RAPR 4-212,7	RAPR 5-212,7	RAPR 6-212,7
	13,5			RAPR 4-213,5	RAPR 5-213,5	RAPR 6-213,5
	14			RAPR 4-214	RAPR 5-214	RAPR 6-214
	15	G 3/8	5/8	RAPR 4-215	RAPR 5-215	RAPR 6-215
	16			RAPR 4-216	RAPR 5-216	RAPR 6-216
	17,2			RAPR 4-217,2	RAPR 5-217,2	RAPR 6-217,2
18	RAPR 4-218	RAPR 5-218	RAPR 6-218			
3	19	G 1/2	3/4	RAPR 4-319	RAPR 5-319	RAPR 6-319
	20			RAPR 4-320	RAPR 5-320	RAPR 6-320
	21,3			RAPR 4-321,3	RAPR 5-321,3	RAPR 6-321,3
	22			RAPR 4-322	RAPR 5-322	RAPR 6-322
	23			RAPR 4-323	RAPR 5-323	RAPR 6-323
	25			RAPR 4-325	RAPR 5-325	RAPR 6-325
25,4	RAPR 4-325,4	RAPR 5-325,4	RAPR 6-325,4			
4	26,9	G 3/4	1	RAPR 4-426,9	RAPR 5-426,9	RAPR 6-426,9
	28			RAPR 4-428	RAPR 5-428	RAPR 6-428
	28,6			RAPR 4-428,6	RAPR 5-428,6	RAPR 6-428,6
	30			RAPR 4-430	RAPR 5-430	RAPR 6-430
5	32	G 1	1 1/4	RAPR 4-532	RAPR 5-532	RAPR 6-532
	33,7			RAPR 4-533,7	RAPR 5-533,7	RAPR 6-533,7
	35			RAPR 4-535	RAPR 5-535	RAPR 6-535
	38	G 1 1/4	1 1/2	RAPR 4-538	RAPR 5-538	RAPR 6-538
	40			RAPR 4-540	RAPR 5-540	RAPR 6-540
	42			RAPR 4-542	RAPR 5-542	RAPR 6-542
6	44,5	G 1 1/2	1 3/4	RAPR 4-644,5	RAPR 5-644,5	RAPR 6-644,5
	45			RAPR 4-645	RAPR 5-645	RAPR 6-645
	48			RAPR 4-648	RAPR 5-648	RAPR 6-648
	50		2	RAPR 4-650	RAPR 5-650	RAPR 6-650
	50,8			RAPR 4-650,8	RAPR 5-650,8	RAPR 6-650,8
	52			RAPR 4-652	RAPR 5-652	RAPR 6-652
	54			RAPR 4-654	RAPR 5-654	RAPR 6-654
	55			RAPR 4-655	RAPR 5-655	RAPR 6-655
	57			RAPR 4-657	RAPR 5-657	RAPR 6-657
7	57,2	G 2	2 1/4	RAPR 4-757,2	RAPR 5-757,2	RAPR 6-757,2
	60,3			RAPR 4-760,3	RAPR 5-760,3	RAPR 6-760,3
	63,5			RAPR 4-763,5	RAPR 5-763,5	RAPR 6-763,5
	70	G 2 1/2	2 3/4	RAPR 4-770	RAPR 5-770	RAPR 6-770
	73			RAPR 4-773	RAPR 5-773	RAPR 6-773
	76,1			RAPR 4-776,1	RAPR 5-776,1	RAPR 6-776,1
8	88,9	G 3	3 1/2	RAPR 4-888,9	RAPR 5-888,9	RAPR 6-888,9
	101,8			G 3 1/2	4	RAPR 4-8101,8

If different combinations are required, we would be obliged if they could be ordered as separate components (Please refer to individual components, pages 14 – 18). Delivery in unassembled individual components. ¹⁾Contrary to illustration size 0 clamps are secured by only one screw ²⁾Aluminium in sizes 0 to 6 ³⁾When assembling solid rubber tube clamps, cover plates, hexagon screws and locking washers must be used ⁴⁾Rubber in sizes 1 to 5

TUBE CLAMPS SERIES A | COMPLETE RANGE

Order codes for clamp-halves:

Polypropylene **RAPR**
 inside smooth **RAPG**
 Polyamide 6 **RANR**
 inside smooth **RANG**
 Rubber **RAVR^{3) 4)}**
RAVG³⁾
 Aluminium **RAAR²⁾**

Replace standard abbreviation RAPR in column "Order codes" as required.

2 clamp halves with rail nuts, slotted head screws and washer

2 clamp halves with rail nuts, socket head bolts and washer

2 clamp halves with rail nuts, cover plate and hexagon head screws



SIZE	O.D. mm	Tube NB	Inch O.D.	Order Codes	Order Codes	Order Codes
0 ¹⁾	4	G 1/8	1/4	RAPR 9-004	RAPR 10-004	RAPR 12-004
	6			RAPR 9-006	RAPR 10-006	RAPR 12-006
	6,4			RAPR 9-006,4	RAPR 10-006,4	RAPR 12-006,4
	8			RAPR 9-008	RAPR 10-008	RAPR 12-008
	9,5			RAPR 9-009,5	RAPR 10-009,5	RAPR 12-009,5
	10			RAPR 9-010	RAPR 10-010	RAPR 12-010
12	RAPR 9-012	RAPR 10-012	RAPR 12-012			
1	4	G 1/8	1/4	RAPR 9-104	RAPR 10-104	RAPR 12-104
	6			RAPR 9-106	RAPR 10-106	RAPR 12-106
	6,4			RAPR 9-106,4	RAPR 10-106,4	RAPR 12-106,4
	8			RAPR 9-108	RAPR 10-108	RAPR 12-108
	9,5			RAPR 9-109,5	RAPR 10-109,5	RAPR 12-109,5
	10			RAPR 9-110	RAPR 10-110	RAPR 12-110
12	RAPR 9-112	RAPR 10-112	RAPR 12-112			
2	12,7	G 1/4	1/2	RAPR 9-212,7	RAPR 10-212,7	RAPR 12-212,7
	13,5			RAPR 9-213,5	RAPR 10-213,5	RAPR 12-213,5
	14			RAPR 9-214	RAPR 10-214	RAPR 12-214
	15	G 3/8	5/8	RAPR 9-215	RAPR 10-215	RAPR 12-215
	16			RAPR 9-216	RAPR 10-216	RAPR 12-216
	17,2			RAPR 9-217,2	RAPR 10-217,2	RAPR 12-217,2
18	RAPR 9-218	RAPR 10-218	RAPR 12-218			
3	19	G 1/2	3/4	RAPR 9-319	RAPR 10-319	RAPR 12-319
	20			RAPR 9-320	RAPR 10-320	RAPR 12-320
	21,3			RAPR 9-321,3	RAPR 10-321,3	RAPR 12-321,3
	22			RAPR 9-322	RAPR 10-322	RAPR 12-322
	23			RAPR 9-323	RAPR 10-323	RAPR 12-323
	25			RAPR 9-325	RAPR 10-325	RAPR 12-325
25,4	RAPR 9-325,4	RAPR 10-325,4	RAPR 12-325,4			
4	26,9	G 3/4	1	RAPR 9-426,9	RAPR 10-426,9	RAPR 12-426,9
	28			RAPR 9-428	RAPR 10-428	RAPR 12-428
	28,6			RAPR 9-428,6	RAPR 10-428,6	RAPR 12-428,6
	30			RAPR 9-430	RAPR 10-430	RAPR 12-430
5	32	G 1	1 1/4	RAPR 9-532	RAPR 10-532	RAPR 12-532
	33,7			RAPR 9-533,7	RAPR 10-533,7	RAPR 12-533,7
	35			RAPR 9-535	RAPR 10-535	RAPR 12-535
	38	G 1 1/4	1 1/2	RAPR 9-538	RAPR 10-538	RAPR 12-538
	40			RAPR 9-540	RAPR 10-540	RAPR 12-540
	42			RAPR 9-542	RAPR 10-542	RAPR 12-542
6	44,5	G 1 1/2	1 3/4	RAPR 9-644,5	RAPR 10-644,5	RAPR 12-644,5
	45			RAPR 9-645	RAPR 10-645	RAPR 12-645
	48			RAPR 9-648	RAPR 10-648	RAPR 12-648
	50			RAPR 9-650	RAPR 10-650	RAPR 12-650
	50,8		2	RAPR 9-650,8	RAPR 10-650,8	RAPR 12-650,8
	52			RAPR 9-652	RAPR 10-652	RAPR 12-652
	54			RAPR 9-654	RAPR 10-654	RAPR 12-654
	55			RAPR 9-655	RAPR 10-655	RAPR 12-655
57	RAPR 9-657	RAPR 10-657	RAPR 12-657			
7	57,2	G 2	2 1/4	RAPR 9-757,2	RAPR 10-757,2	RAPR 12-757,2
	60,3			RAPR 9-760,3	RAPR 10-760,3	RAPR 12-760,3
	63,5			RAPR 9-763,5	RAPR 10-763,5	RAPR 12-763,5
	70	G 2 1/2	3	RAPR 9-770	RAPR 10-770	RAPR 12-770
	73			RAPR 9-773	RAPR 10-773	RAPR 12-773
	76,1			RAPR 9-776,1	RAPR 10-776,1	RAPR 12-776,1
8	88,9	G 3	3 1/2	RAPR 9-888,9	RAPR 10-888,9	RAPR 12-888,9
	101,8			RAPR 9-8101,8	RAPR 10-8101,8	RAPR 12-8101,8

If different combinations are required, we would be obliged if they could be ordered as separate components (Please refer to individual components, pages 14 – 18). Delivery in unassembled individual components. ¹⁾Contrary to illustration size 0 clamps are secured by only one screw ²⁾Aluminium in sizes 0 to 6 ³⁾When assembling solid rubber tube clamps, cover plates, hexagon screws and locking washers must be used ⁴⁾Rubber in sizes 1 to 5

Order codes for clamp-halves:

Polypropylene **RAPR**
 inside smooth **RAPG**
 Polyamide 6 **RANR**
 inside smooth **RANG**
 Rubber **RAVR^{3) 4)}**
RAVG³⁾
 Aluminium **RAAR²⁾**

Replace standard abbreviation RAPR in column "clamp-halves" as required.

2 clamp halves, slotted head screws and washer



2 clamp halves, hexagon socket head screws and washer



SIZE	O.D. mm	Tube NB	Inch O.D.	Order Codes	Order Codes
0 ¹⁾	4 6 6,4 8 9,5 10 12	G 1/8	1/4 5/16 3/8	RAPR 13-004 RAPR 13-006 RAPR 13-006,4 RAPR 13-008 RAPR 13-009,5 RAPR 13-010 RAPR 13-012	RAPR 14-004 RAPR 14-006 RAPR 14-006,4 RAPR 14-008 RAPR 14-009,5 RAPR 14-010 RAPR 14-012
1	4 6 6,4 8 9,5 10 12	G 1/8	1/4 5/16 3/8	RAPR 13-104 RAPR 13-106 RAPR 13-106,4 RAPR 13-108 RAPR 13-109,5 RAPR 13-110 RAPR 13-112	RAPR 14-104 RAPR 14-106 RAPR 14-106,4 RAPR 14-108 RAPR 14-109,5 RAPR 14-110 RAPR 14-112
2	12,7 13,5 14 15 16 17,2 18	G 1/4 G 3/8	1/2 5/8	RAPR 13-212,7 RAPR 13-213,5 RAPR 13-214 RAPR 13-215 RAPR 13-216 RAPR 13-217,2 RAPR 13-218	RAPR 14-212,7 RAPR 14-213,5 RAPR 14-214 RAPR 14-215 RAPR 14-216 RAPR 14-217,2 RAPR 14-218
3	19 20 21,3 22 23 25 25,4	G 1/2	3/4 1	RAPR 13-319 RAPR 13-320 RAPR 13-321,3 RAPR 13-322 RAPR 13-323 RAPR 13-325 RAPR 13-325,4	RAPR 14-319 RAPR 14-320 RAPR 14-321,3 RAPR 14-322 RAPR 14-323 RAPR 14-325 RAPR 14-325,4
4	26,9 28 28,6 30	G 3/4		RAPR 13-426,9 RAPR 13-428 RAPR 13-428,6 RAPR 13-430	RAPR 14-426,9 RAPR 14-428 RAPR 14-428,6 RAPR 14-430
5	32 33,7 35 38 40 42	G 1 G 1 1/4	1 1/4 1 1/2	RAPR 13-532 RAPR 13-533,7 RAPR 13-535 RAPR 13-538 RAPR 13-540 RAPR 13-542	RAPR 14-532 RAPR 14-533,7 RAPR 14-535 RAPR 14-538 RAPR 14-540 RAPR 14-542
6	44,5 45 48 50 50,8 52 54 55 57	G 1 1/2	1 3/4 2	RAPR 13-644,5 RAPR 13-645 RAPR 13-648 RAPR 13-650 RAPR 13-650,8 RAPR 13-652 RAPR 13-654 RAPR 13-655 RAPR 13-657	RAPR 14-644,5 RAPR 14-645 RAPR 14-648 RAPR 14-650 RAPR 14-650,8 RAPR 14-652 RAPR 14-654 RAPR 14-655 RAPR 14-657
7	57,2 60,3 63,5 70 73 76,1	G 2 G 2 1/2	2 1/4 2 1/2 2 3/4 3	RAPR 13-757,2 RAPR 13-760,3 RAPR 13-763,5 RAPR 13-770 RAPR 13-773 RAPR 13-776,1	RAPR 14-757,2 RAPR 14-760,3 RAPR 14-763,5 RAPR 14-770 RAPR 14-773 RAPR 14-776,1
8	88,9 101,8	G 3 G 3 1/2	3 1/2 4	RAPR 13-888,9 RAPR 13-8101,8	RAPR 14-888,9 RAPR 14-8101,8

If different combinations are required, we would be obliged if they could be ordered as separate components (Please refer to individual components, pages 14 – 18). Delivery in unassembled individual components. ¹⁾Contrary to illustration size 0 clamps are secured by only one screw ²⁾Aluminium in sizes 0 to 6 ³⁾When assembling solid rubber tube clamps, cover plates, hexagon screws and locking washers must be used ⁴⁾Rubber in sizes 1 to 5

TUBE CLAMPS SERIES A | COMPLETE RANGE

Order codes for clamp-halves:

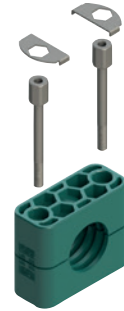
Polypropylene inside smooth	RAPR
Polyamide 6 inside smooth	RANR
Rubber	RANG
	RAVR^{3) 4)}
	RAVG³⁾
Aluminium	RAAR²⁾

Replace standard abbreviation RAPR in column "Order codes" as required.

2 clamp halves, cover plate and hexagon head screws



2 clamp halves, stacking bolts and locking plates



SIZE	O.D. mm	Tube NB	Inch O.D.	Order Codes	Order Codes
0 ¹⁾	4 6 6,4 8 9,5 10 12	G 1/8	5/16	RAPR 16-004 RAPR 16-006 RAPR 16-006,4 RAPR 16-008 RAPR 16-009,5 RAPR 16-010 RAPR 16-012	RAPR 18-004 RAPR 18-006 RAPR 18-006,4 RAPR 18-008 RAPR 18-009,5 RAPR 18-010 RAPR 18-012
1	4 6 6,4 8 9,5 10 12	G 1/8	5/16	RAPR 16-104 RAPR 16-106 RAPR 16-106,4 RAPR 16-108 RAPR 16-109,5 RAPR 16-110 RAPR 16-112	RAPR 18-104 RAPR 18-106 RAPR 18-106,4 RAPR 18-108 RAPR 18-109,5 RAPR 18-110 RAPR 18-112
2	12,7 13,5 14 15 16 17,2 18	G 1/4 G 3/8	1/2 5/8	RAPR 16-212,7 RAPR 16-213,5 RAPR 16-214 RAPR 16-215 RAPR 16-216 RAPR 16-217,2 RAPR 16-218	RAPR 18-212,7 RAPR 18-213,5 RAPR 18-214 RAPR 18-215 RAPR 18-216 RAPR 18-217,2 RAPR 18-218
3	19 20 21,3 22 23 25 25,4	G 1/2	3/4 1	RAPR 16-319 RAPR 16-320 RAPR 16-321,3 RAPR 16-322 RAPR 16-323 RAPR 16-325 RAPR 16-325,4	RAPR 18-319 RAPR 18-320 RAPR 18-321,3 RAPR 18-322 RAPR 18-323 RAPR 18-325 RAPR 18-325,4
4	26,9 28 28,6 30	G 3/4		RAPR 16-426,9 RAPR 16-428 RAPR 16-428,6 RAPR 16-430	RAPR 18-426,9 RAPR 18-428 RAPR 18-428,6 RAPR 18-430
5	32 33,7 35 38 40 42	G 1 G 1 1/4	1 1/4 1 1/2	RAPR 16-532 RAPR 16-533,7 RAPR 16-535 RAPR 16-538 RAPR 16-540 RAPR 16-542	RAPR 18-532 RAPR 18-533,7 RAPR 18-535 RAPR 18-538 RAPR 18-540 RAPR 18-542
6	44,5 45 48 50 50,8 52 54 55 57	G 1 1/2	1 3/4 2	RAPR 16-644,5 RAPR 16-645 RAPR 16-648 RAPR 16-650 RAPR 16-650,8 RAPR 16-652 RAPR 16-654 RAPR 16-655 RAPR 16-657	RAPR 18-644,5 RAPR 18-645 RAPR 18-648 RAPR 18-650 RAPR 18-650,8 RAPR 18-652 RAPR 18-654 RAPR 18-655 RAPR 18-657
7	57,2 60,3 63,5 70 73 76,1	G 2 G 2 1/2	2 1/4 2 1/2 2 3/4 3	RAPR 16-757,2 RAPR 16-760,3 RAPR 16-763,5 RAPR 16-770 RAPR 16-773 RAPR 16-776,1	RAPR 18-757,2 RAPR 18-760,3 RAPR 18-763,5 RAPR 18-770 RAPR 18-773 RAPR 18-776,1
8	88,9 101,8	G 3 G 3 1/2	3 1/2 4	RAPR 16-888,9 RAPR 16-8101,8	RAPR 18-888,9 RAPR 18-8101,8

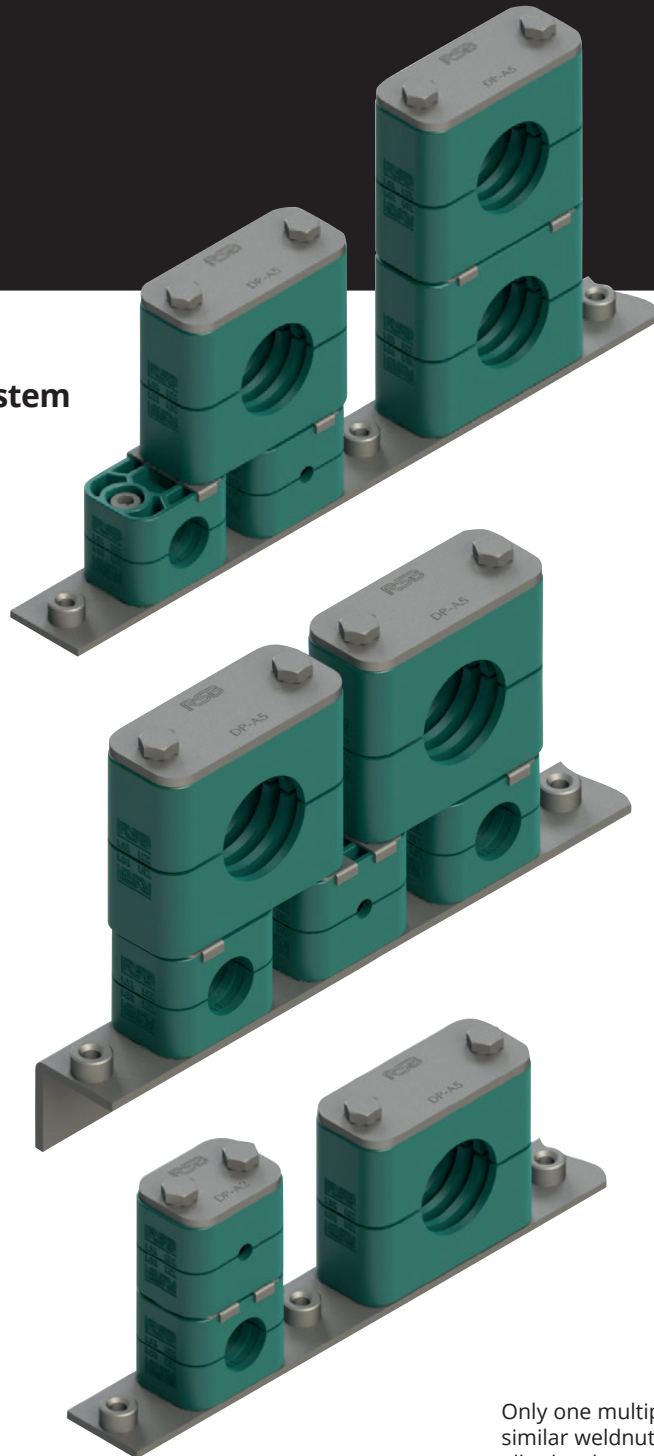
If different combinations are required, we would be obliged if they could be ordered as separate components (Please refer to individual components, pages 14 – 18). Delivery in unassembled individual components. ¹⁾Contrary to illustration size 0 clamps are secured by only one screw ²⁾Aluminium in sizes 0 to 6 ³⁾When assembling solid rubber tube clamps, cover plates, hexagon screws and locking washers must be used ⁴⁾Rubber in sizes 1 to 5

2+5 ... THE SYSTEM!

ONLY 2 TUBE CLAMP SIZES

With our 2+5 RSB-Tube clamps system you can fix all tube diameters between 6 and 42 mm with only 2 tube clamp sizes.

- easy assembly, can be combined with all versions
- all metal parts of our standard program according to DIN 3015 can be used



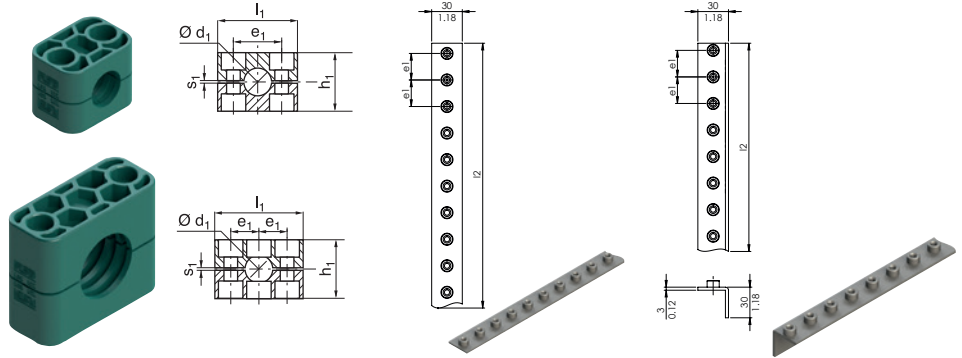
Only one multiple weldplate with similar weldnut distances suits all tube clamps of size 2+5

Order codes

for clamp-halves:

- Polypropylene **RAPR**
- inside smooth **RAPG²⁾**
- Polyamide 6 **RANR**
- inside smooth **RANG²⁾**
- Rubber **RAVR³⁾**
- RAVG^{2) 3)}**
- Aluminium **RAAR**

Replace standard abbreviation RAPR in column "Order codes" as required.



SIZE	O.D. mm d ₁	Tube NB	Inch O.D.	RAPR	RAPR-...				APRL-A 2		APRWL-A 2			
				1 part / 2 clamp-halves	2 clamp-halves				Multiple welding plate		Multiple welding plate, angled			
					l ₁	h ₁	e ₁	s ₁	e ₁	l ₂	e ₁	l ₂		
2	6	G 1/8	1/4	RAPR-206										
	6,4			RAPR-206,4										
	8			RAPR-208										
	9,5			RAPR-209,5										
	10			RAPR-210										
	12			RAPR-212										
	12,7			RAPR-212,7			42	33	26	0,8				
	13,5			RAPR-213,5	G 1/4		1,65	1,30	1,02	0,03				
	14			RAPR-214										
	15			RAPR-215										
	16			RAPR-216		5/8								
	17,2			RAPR-217,2	G 3/8									
	18			RAPR-218										
5	19	G 1/2	3/4	RAPR-519					26	508	26	508		
	20			RAPR-520					1.02	20.00	1.02	20.00		
	21,3			RAPR-521,3					20 Nuts		20 Nuts			
	22			RAPR-522										
	23			RAPR-523										
	25			RAPR-525										
	25,4			RAPR-525,4	1									
	26,9			RAPR-526,9	G 3/4		71	58	52	1,2				
	28			RAPR-528			2,80	2,28	2,05	0,05				
	30			RAPR-530										
	32			RAPR-532	1 1/4									
	33,7			RAPR-533,7	G 1									
	35			RAPR-535										
	38			RAPR-538		1 1/2								
	40			RAPR-540										
42	RAPR-542	G 1 1/4												

dimensions $\frac{\text{mm}}{\text{Inch}}$

All metal parts available in stainless steel. Please refer to individual components pages 14-18.

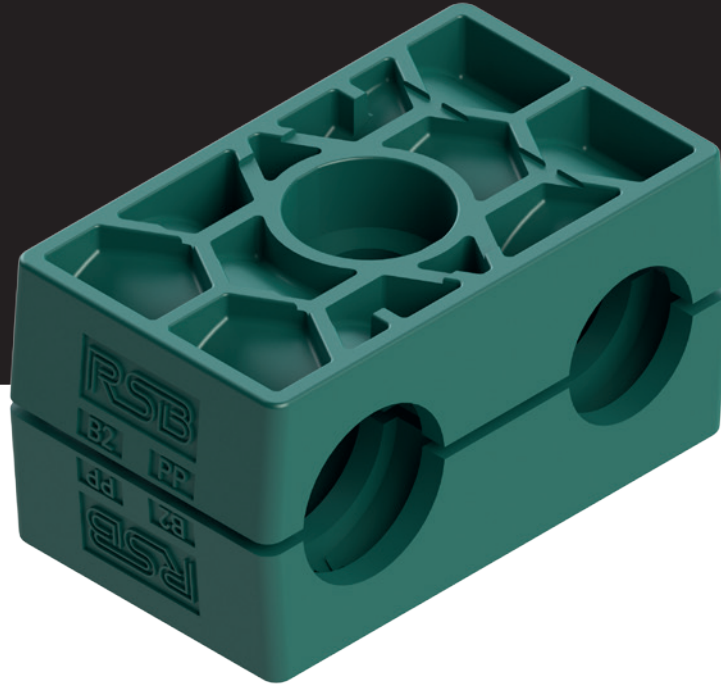
²⁾without prestress

³⁾When assembling solid rubber tube clamps, cover plates, hexagon screws and locking washers must be used

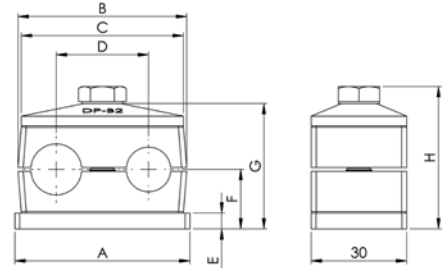


// 03

TUBE CLAMPS SERIES B



// DIMENSIONS AND WEIGHTS OF TUBE CLAMPS, COMPLETE (MM)



SIZE	A	B	C	D	E	F		G		H		WEIGHT / 10 PCS. RBPR3-xxx (kg)
						Grooved	Smooth	Grooved	Smooth	Grooved	Smooth	
1	37	36	34	20	3	16,5	16	37	36	41	40	0,74
	1.46	1.42	1.34	0.79	0.12	0.65	0.63	1.46	1.42	1.61	1.57	
2	55	53	51	29	5	18,7	18,1	39,4	38,2	44,7	43,5	1,32
	2.17	2.09	2.01	1.14	0.20	0.74	0.71	1.55	1.50	1.76	1.71	
3	70	67	64	36	5	23,5	22,7	49	47,4	54,3	52,7	1,73
	2.76	2.64	2.52	1.42	0.20	0.93	0.89	1.93	1.87	2.14	2.07	
4	85	82	78	45	5	26	25	54	52	59,3	57,3	2,13
	3.35	3.23	3.07	1.77	0.20	1.02	0.98	2.13	2.05	2.33	2.26	
5	110	106	102	56	5	32	31	66	64	71,3	69,3	3,01
	4.33	4.17	4.02	2.20	0.20	1.26	1.22	2.60	2.52	2.81	2.73	

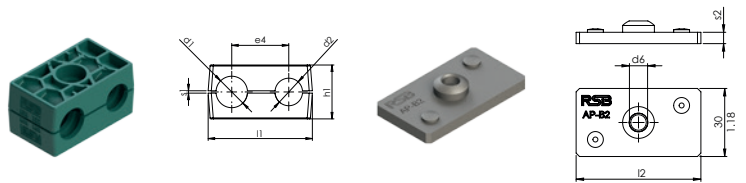
dimensions $\frac{\text{mm}}{\text{Inch}}$

The weight was determined with the smallest diameter (see catalogue) and the standard model of the steel parts of the respective quantity in bulk.

Order codes for clamp-halves:

Polypropylene **RBPR**
 inside smooth **RBPG²⁾**
 Polyamide 6 **RBNR**
 inside smooth **RBNG²⁾**
 Rubber **RBVG^{2) 3)}**

Replace standard abbreviation RBPR in column "clamp-halves" as required.



SIZE	O.D. mm d ₁ /d ₂	Tube NB	Inch O.D.	RBPR	RBPR...				APZ3-B			
				1 part / 2 clamp-halves ¹⁾	2 clamp-halves				Weld plate with locking device			
					l ₁	h ₁	e ₄	s ₁		l ₂	s ₂	d ₆
1	6	G 1/8	1/4	RBPR-106	36	27	20	1,0	APZ3-B 1	37	3	M 6
	6,4			RBPR-106,4								
	8			RBPR-108								
	9,5			RBPR-109,5								
	10			RBPR-110								
	12			RBPR-112								
2	12,7	G 1/4	1/2	RBPR-212,7	53	27,4	29	1,2	APZ3-B 2	55	5	M 8
	13,5			RBPR-213,5								
	14			RBPR-214								
	15			RBPR-215								
	16			RBPR-216								
	17,2			RBPR-217,2								
	18			RBPR-218								
	3			19								
20		RBPR-320										
21,3		RBPR-321,3										
22		RBPR-322										
25		RBPR-325										
25,4		RBPR-325,4										
4	26,9	G 3/4	1	RBPR-426,9	82	42	45	2	APZ3-B 4	85	5	M 8
	28			RBPR-428								
	30			RBPR-430								
5	32	G 1	1 1/4	RBPR-532	106	54	56	2	APZ3-B 5	110	5	M 8
	33,7			RBPR-533,7								
	35			RBPR-535								
	38			RBPR-538								
	40			RBPR-540								
	42			RBPR-542								

dimensions $\frac{\text{mm}}{\text{Inch}}$

All metal parts available in stainless steel.

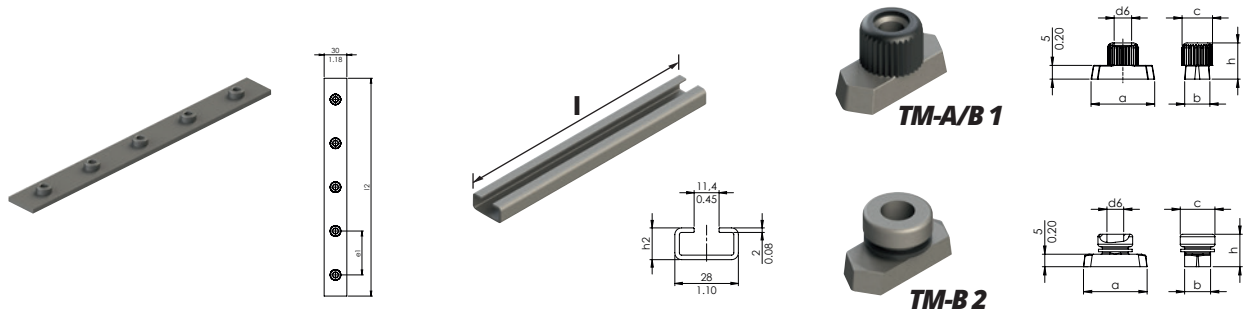
¹⁾Twin-tube clamps with different outer tube diameter upon request ²⁾without prestress

³⁾When assembling solid rubber tube clamps, cover plates, hexagon screws and locking washers must be used



TUBE CLAMPS SERIES B (TWIN-TUBE CLAMP) | DIN 3015, PART 3 | COMPONENTS

Complete range please refer to pages 34 to 35.



SIZE	APR-B Multiple weld plate		TS-A/B Mounting rail		TM Rail nut																									
	e ₁	l ₂	l	h ₂	a	b	c	d ₆	h																					
1	APR-B 1	40	196	TS 11-A/B 1 TS 11-A/B 2 TS 14-A/B 1 TS 14-A/B 2 TS 30-A/B 1 TS 30-A/B 2	1 m	11	TM-A/B 1	25,4	10,4	12	M 6	14,5																		
	5 Clamps	1.57	7.72					1.00	0.41	0.47	1/4-20 UNC	0.57																		
2	APR-B 2	58	288		3.28 ft	0.43		2 m	11	TM-B 2	25,4	10,4	14	M 8	13															
	5 Clamps	2.28	11.30		6.56 ft	0.43																								
3	APR-B 3	72	358		1 m	14		6.56 ft	0.55							1.00	0.41	0.55	5/16-18 UNC	0.51										
	5 Clamps	2.83	14.10		2 m	14																								
4	APR-B 4	90	446		1 m	30		3.28 ft	1.18												1.00	0.41	0.55	5/16-18 UNC	0.51					
	5 Clamps	3.54	17.60		2 m	30																								
5	APR-B 5	112	558		6.56 ft	1.18		6.56 ft	1.18																	1.00	0.41	0.55	5/16-18 UNC	0.51
	5 Clamps	4.41	22.00																											

dimensions $\frac{\text{mm}}{\text{Inch}}$

All metal parts available in stainless steel.



Complete range please refer to pages 34 to 35.



SIZE	DP-B Cover plate		SS-B Hexagon head screw			IS-B Hexagon socket head screw					
	l_3	d_7	d	x	l	d	x	l			
1	DP-B 1	34	7	SS-B 1 (SSL-A 2)	M 6	x	35	IS-B 1 (IS-A 4)	M 6	x	35
		1.34	0.28		$\frac{1}{4}$ -20 UNC x $1\frac{3}{8}$	$\frac{1}{4}$ -20 UNC x $1\frac{3}{8}$					
2	DP-B 2	51	9	SS-B 2	M 8	x	35	IS-B 2	M 8	x	35
		2.01	0.35		$\frac{5}{16}$ -18 UNC x $1\frac{3}{8}$	$\frac{5}{16}$ -18 UNC x $1\frac{3}{8}$					
3	DP-B 3	64	9	SS-B 3	M 8	x	45	IS-B 3	M 8	x	45
		2.52	0.35		$\frac{5}{16}$ -18 UNC x $1\frac{3}{4}$	$\frac{5}{16}$ -18 UNC x $1\frac{3}{4}$					
4	DP-B 4	78	9	SS-B 4	M 8	x	50	IS-B 4	M 8	x	50
		3.07	0.35		$\frac{5}{16}$ -18 UNC x 2	$\frac{5}{16}$ -18 UNC x 2					
5	DP-B 5	102	9	SS-B 5	M 8	x	60	IS-B 5	M 8	x	60
		4.02	0.35		$\frac{5}{16}$ -18 UNC x $2\frac{3}{4}$	$\frac{5}{16}$ -18 UNC x $2\frac{3}{4}$					

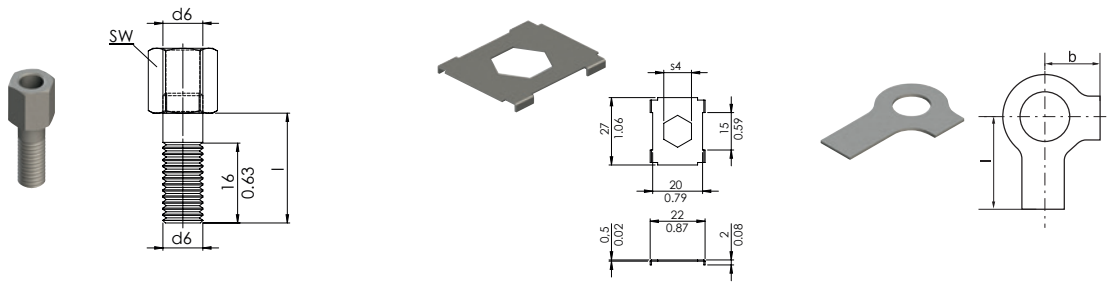
dimensions $\frac{\text{mm}}{\text{Inch}}$

All metal parts available in stainless steel.



TUBE CLAMPS SERIES B (TWIN-TUBE CLAMP) | DIN 3015, PART 3 | COMPONENTS

Complete range please refer to pages 34 to 35.



SIZE	AS-B Stacking bolt ¹⁾			SB-B Locking plate ¹⁾		US Locking washer ²⁾			
		l	d ₆	sw		S ₄	b	l	
1	AS-B 1 (AS-A 0/A 1)	20	M6	11	SB-B 1	11	US-A	9	18
		0.79	¼-20 UNC	0.43		1.18		0.35	0.71
2	AS-B 2	20	M 8	12	SB-B 2	12	US-B 2	11	20
		0.79	⅝-16-18 UNC	0.47					
3	AS-B 3	25	M 8	12	SB-B 2	12	US-B 2	11	20
		0.98	⅝-16-18 UNC	0.47					
4	AS-B 4	28	M 8	12	SB-B 2	12	US-B 2	11	20
		1.10	⅝-16-18 UNC	0.47					
5	AS-B 5	34	M 8	12	SB-B 2	12	US-B 2	11	20
		1.34	⅝-16-18 UNC	0.47					

dimensions $\frac{\text{mm}}{\text{Inch}}$

All metal parts available in stainless steel.

¹⁾The usage of stacking bolts necessitates the deployment of locking plates during the construction assembly

²⁾When assembling solid rubber clamps, cover plates, hexagon screws and locking washers must be used



Order codes for clamp-halves:

Polypropylene **RBPR**
 inside smooth **RBPG**
 Polyamide 6 **RBNR**
 inside smooth **RBNG**
 Rubber **RBVG³⁾**

Replace standard abbreviation RBPR in column "Order codes" as required.

2 clamp halves with weld plate, cover plate and hexagon head screw



2 clamp halves with weld plate, cover plate and hexagon socket head screw



2 clamp halves with rail nut, cover plate and hexagon head screw



SIZE	O.D. mm	Tube NB	Inch O.D.	Order Codes	Order Codes	Order Codes
1	6	G 1/8	1/4	RBPR 1-106	RBPR 3-106	RBPR 4-106
	6,4			RBPR 1-106,4	RBPR 3-106,4	RBPR 4-106,4
	8			RBPR 1-108	RBPR 3-108	RBPR 4-108
	9,5			RBPR 1-109,5	RBPR 3-109,5	RBPR 4-109,5
	10			RBPR 1-110	RBPR 3-110	RBPR 4-110
	12			RBPR 1-112	RBPR 3-112	RBPR 4-112
2	12,7	G 1/4	1/2	RBPR 1-212,7	RBPR 3-212,7	RBPR 4-212,7
	13,5			RBPR 1-213,5	RBPR 3-213,5	RBPR 4-213,5
	14			RBPR 1-214	RBPR 3-214	RBPR 4-214
	15			RBPR 1-215	RBPR 3-215	RBPR 4-215
	16			RBPR 1-216	RBPR 3-216	RBPR 4-216
	17,2			RBPR 1-217,2	RBPR 3-217,2	RBPR 4-217,2
18	RBPR 1-218	RBPR 3-218	RBPR 4-218			
3	19	G 1/2	3/4	RBPR 1-319	RBPR 3-319	RBPR 4-319
	20			RBPR 1-320	RBPR 3-320	RBPR 4-320
	21,3			RBPR 1-321,3	RBPR 3-321,3	RBPR 4-321,3
	22			RBPR 1-322	RBPR 3-322	RBPR 4-322
	25			RBPR 1-325	RBPR 3-325	RBPR 4-325
	25,4			RBPR 1-325,4	RBPR 3-325,4	RBPR 4-325,4
4	26,9	G 3/4	1	RBPR 1-426,9	RBPR 3-426,9	RBPR 4-426,9
	28			RBPR 1-428	RBPR 3-428	RBPR 4-428
	30			RBPR 1-430	RBPR 3-430	RBPR 4-430
5	32	G 1	1 1/4	RBPR 1-532	RBPR 3-532	RBPR 4-532
	33,7			RBPR 1-533,7	RBPR 3-533,7	RBPR 4-533,7
	35			RBPR 1-535	RBPR 3-535	RBPR 4-535
	38			RBPR 1-538	RBPR 3-538	RBPR 4-538
	40			RBPR 1-540	RBPR 3-540	RBPR 4-540
	42			RBPR 1-542	RBPR 3-542	RBPR 4-542

If different combinations are required, we would be obliged if they could be ordered as separate components (Please refer to individual components, pages 30 – 33). Delivery in unassembled individual components.

³⁾When assembling solid rubber tube clamps, cover plates, hexagon screws and locking washers must be used

TUBE CLAMPS SERIES B | COMPLETE RANGE

Order codes for clamp-halves:

Polypropylene **RBPR**
 inside smooth **RBPG**
 Polyamide 6 **RBNR**
 inside smooth **RBNG**
 Rubber **RBVG³⁾**

Replace standard abbreviation RBPR in column "Order codes" as required.

2 clamp halves with rail nut, cover plate and hexagon socket head screw

2 clamp halves with stacking bolt and locking plate

2 clamp halves with cover plate and hexagon head screw



SIZE	O.D. mm d ₁	Tube NB	Inch O.D.	Order Codes	Order Codes	Order Codes
1	6	G 1/8	1/4	RBPR 5-106	RBPR 8-106	RBPR 16-106
	6,4			RBPR 5-106,4	RBPR 8-106,4	RBPR 16-106,4
	8			RBPR 5-108	RBPR 8-108	RBPR 16-108
	9,5			RBPR 5-109,5	RBPR 8-109,5	RBPR 16-109,5
	10			RBPR 5-110	RBPR 8-110	RBPR 16-110
	12			RBPR 5-112	RBPR 8-112	RBPR 16-112
2	12,7	G 3/8	1/2	RBPR 5-212,7	RBPR 8-212,7	RBPR 16-212,7
	13,5			RBPR 5-213,5	RBPR 8-213,5	RBPR 16-213,5
	14			RBPR 5-214	RBPR 8-214	RBPR 16-214
	15			RBPR 5-215	RBPR 8-215	RBPR 16-215
	16			RBPR 5-216	RBPR 8-216	RBPR 16-216
	17,2			RBPR 5-217,2	RBPR 8-217,2	RBPR 16-217,2
18	RBPR 5-218	RBPR 8-218	RBPR 16-218			
3	19	G 1/2	3/4	RBPR 5-319	RBPR 8-319	RBPR 16-319
	20			RBPR 5-320	RBPR 8-320	RBPR 16-320
	21,3			RBPR 5-321,3	RBPR 8-321,3	RBPR 16-321,3
	22			RBPR 5-322	RBPR 8-322	RBPR 16-322
	25			RBPR 5-325	RBPR 8-325	RBPR 16-325
	25,4			RBPR 5-325,4	RBPR 8-325,4	RBPR 16-325,4
4	26,9	G 3/4	1	RBPR 5-426,9	RBPR 8-426,9	RBPR 16-426,9
	28			RBPR 5-428	RBPR 8-428	RBPR 16-428
	30			RBPR 5-430	RBPR 8-430	RBPR 16-430
5	32	G 1	1 1/4	RBPR 5-532	RBPR 8-532	RBPR 16-532
	33,7			RBPR 5-533,7	RBPR 8-533,7	RBPR 16-533,7
	35			RBPR 5-535	RBPR 8-535	RBPR 16-535
	38			RBPR 5-538	RBPR 8-538	RBPR 16-538
	40			RBPR 5-540	RBPR 8-540	RBPR 16-540
	42			RBPR 5-542	RBPR 8-542	RBPR 16-542

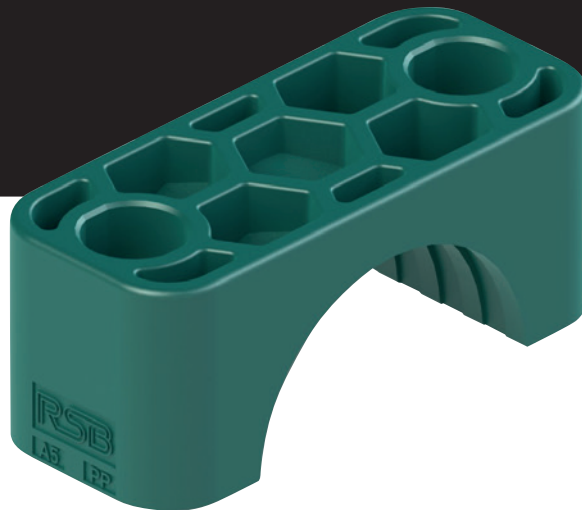
If different combinations are required, we would be obliged if they could be ordered as separate components (Please refer to individual components, pages 30 – 33). Delivery in unassembled individual components.

³⁾When assembling solid rubber tube clamps, cover plates, hexagon screws and locking washers must be used



INNOVATIVE DESIGN

- INSPIRED BY NATURE - HONEYCOMB-STRUCTURE



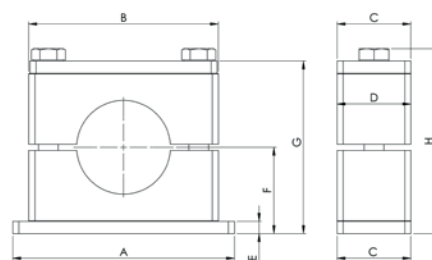
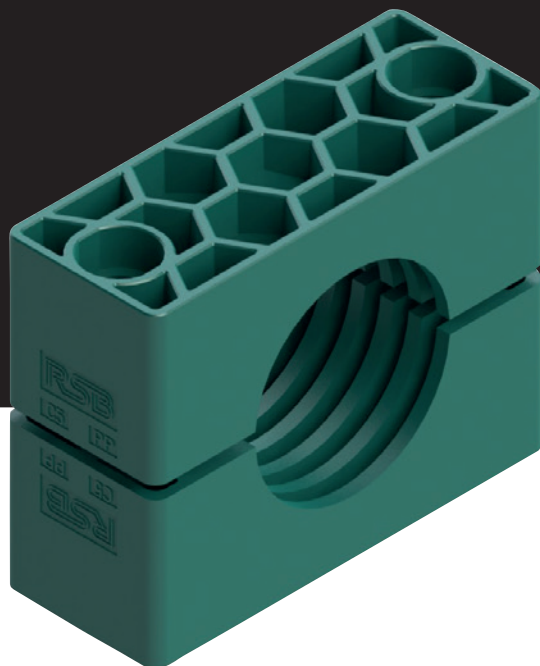
ADVANTAGES

- Optimized product-geometry
- Best possible distribution of pressure
- Highest possible tube holding force

All standard materials available.

// 04

TUBE CLAMPS SERIES C



// DIMENSIONS AND WEIGHTS OF TUBE CLAMPS, COMPLETE (MM)

SIZE	A	B	C	D	E	F		G		H		WEIGHT / 10 PCS. RCPR3-xxx (kg)
						Grooved	Smooth	Grooved	Smooth	Grooved	Smooth	
1	73	56	30	30	8	24	23	48	46	54,4	52,4	0,31
	2.87	2.20	1.18	1.18	0.31	0.94	0.91	1.89	1.81	2.14	2.06	
2	84	71	30	30	8	32	31	64	62	70,4	68,4	0,41
	3.31	2.80	1.18	1.18	0.31	1.26	1.22	2.52	2.44	2.77	4.00	
3	100	86	30	30	8	38	37	76	74	82,4	80,4	0,48
	3.94	3.39	1.18	1.18	0.31	1.50	1.46	2.99	2.91	3.24	3.17	
4	140	117	45	45	10	55	53,5	110	107	117,5	114,5	1,24
	5.51	4.61	1.77	1.77	0.39	2.17	2.11	4.33	4.21	4.63	4.51	
5	180	154	60	60	10	70	67,5	140	135	150	145	2,43
	7.09	6.06	2.36	2.36	0.39	2.76	2.66	5.51	5.31	5.91	5.71	
6	225	206	80	80	15	99	96	198	192	210,5	204,5	6,12
	8.86	8.11	3.15	3.15	0.59	3.90	3.78	7.80	7.56	8.29	8.05	
7	270	251	90	90	15	115	112	230	224	245	239	8,69
	10.63	9.88	3.54	3.54	0.59	4.53	4.41	9.06	8.82	9.65	9.41	
8	340	320	120	120	25	160	157	320	314	333,7	327,7	22,49
	13.39	12.60	4.72	4.72	0.98	6.30	6.18	12.60	12.36	13.14	12.90	
9	520	470	160	162	30	235	-	470	-	488,7	-	51,23
	20.47	18.50	6.30	6.38	1.18	9.25	-	18.50	-	19.24	-	
10	680	630	180	182	30	295	-	590	-	608,7	-	74,38
	26.77	24.80	7.09	7.17	1.18	11.61	-	23.23	-	23.96	-	

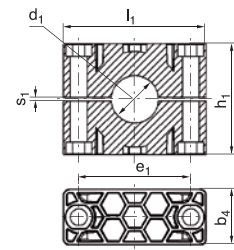
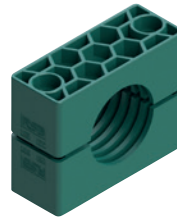
The weight was determined with the smallest diameter (see catalogue) and the standard model of the steel parts of the respective quantity in bulk.

dimensions $\frac{\text{mm}}{\text{Inch}}$

Order codes for clamp-halves:

- Polypropylene **RCPR**
- inside smooth **RCPG^{1) 2)}**
- Polyamide 6 **RCNR**
- inside smooth **RCNG^{1) 2)}**
- Rubber **RCVR^{1) 3)}**
- RCVG^{1) 2) 3)}**
- Aluminium **RCAR**

Replace standard abbreviation RCPR in column "clamp-halves" as required.



SIZE	O.D. mm	Tube NB	Inch O.D.	RCPR 1 part / 2 clamp-halves	RCPR-... 2 clamp-halves				
	d ₁				l ₁	h ₁	e ₁	s ₁	b ₄
1	6	G 1/8	5/16	RCPR-106 RCPR-108 RCPR-109,5 RCPR-110 RCPR-112 RCPR-112,7 RCPR-113,5 RCPR-114 RCPR-115 RCPR-116 RCPR-117,2 RCPR-118	56	32	33	2	30
	8								
	9,5								
	10								
	12								
	12,7	G 1/4	1/2		2.20	1.26	1.30	0.08	1.18
	13,5								
	14								
	15								
	16								
17,2	G 3/8	5/8							
18									
2	19	G 1/2	3/4	RCPR-219 RCPR-220 RCPR-221,3 RCPR-222 RCPR-223 RCPR-225 RCPR-225,4 RCPR-226,9 RCPR-228 RCPR-230	71	48	45	2	30
	20								
	21,3								
	22								
	23								
	25	G 3/4	1		2.80	1.89	1.77	0.08	1.18
	25,4								
	26,9								
	28								
	30								
3	30	G 1	1 1/4	RCPR-330 RCPR-332 RCPR-333,7 RCPR-335 RCPR-338 RCPR-340 RCPR-342	86	60	60	2	30
	32								
	33,7								
	35	G 1 1/4	1 1/2		3.39	2.36	2.36	0.08	1.18
	38								
	40								
42									
4	38	G 1 1/4	1 1/2	RCPR-438 RCPR-440 RCPR-442 RCPR-445 RCPR-448,3 RCPR-450 RCPR-451 RCPR-452 RCPR-455 RCPR-457 RCPR-460,3 RCPR-463 RCPR-465 RCPR-470	117	90	90	3	45
	40								
	42								
	45	G 1 1/2	2		4.61	3.54	3.54	0.12	1.77
	48,3								
	50								
	51	G 2	2 1/4						
	52								
	55								
	57								
	60,3								
	63								
	65								
70	2 3/4								

dimensions $\frac{\text{mm}}{\text{Inch}}$

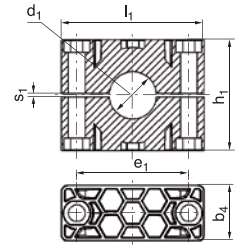
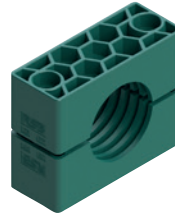
¹⁾Only Size 1-8 ²⁾without prestress

³⁾When assembling solid rubber tube clamps, cover plates, hexagon screws and locking washers must be used

Order codes for clamp-halves:

- Polypropylene **RCPR**
- inside smooth **RCPG^{1) 2)}**
- Polyamide 6 **RCNR**
- inside smooth **RCNG^{1) 2)}**
- Rubber **RCVR^{1) 3)}**
- RCVG^{1) 2) 3)}**
- Aluminium **RCAR**

Replace standard abbreviation RCPR in column "clamp-halves" as required.



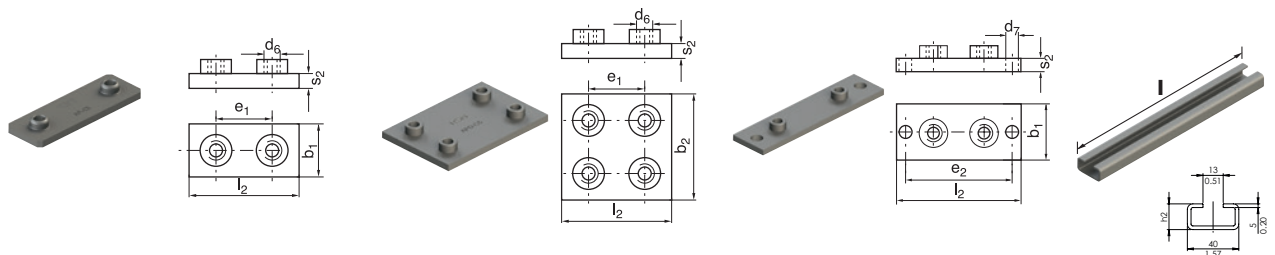
SIZE	O.D. mm	Tube NB	Inch O.D.	RCPR	RCPR...				
	d ₁			1 part / 2 clamp-halves	l ₁	h ₁	e ₁	s ₁	b ₄
5	65	G 2 1/2	3	RCPR-565	154	120	122	5	60
	70			RCPR-570					
	73			RCPR-573					
	75			RCPR-575					
	76,1			RCPR-576,1					
	80	RCPR-580	6.06	1.26	1.30	0.08	1.18		
	82,5	RCPR-582,5							
	85	RCPR-585							
	88,9	RCPR-588,9							
	90	RCPR-590							
6	90	G 3 1/2	4	RCPR-690	206	168	168	6	80
	97			RCPR-697					
	100			RCPR-6100					
	101,6	RCPR-6101,6	8.11	6.61	6.61	0.24	3.15		
	108	RCPR-6108							
	114,3	RCPR-6114,3							
	127	RCPR-6127							
7	127	G 5	5	RCPR-7127	251	200	205	6	90
	130			RCPR-7130					
	133			RCPR-7133					
	140			RCPR-7140					
	150			RCPR-7150					
	152,4	RCPR-7152,4	9.88	7.87	8.07	0.24	3.54		
	159	RCPR-7159							
	165,1	RCPR-7165,1							
	168,3	RCPR-7168,3							
	8	168,3						G 6	8
177,8		RCPR-8177,8							
193,7		RCPR-8193,7	12.60	10.63	10.43	0.24	4.72		
203		RCPR-8203							
219,1		RCPR-8219,1							
220		RCPR-8220							
9	219,1	G 8		RCPR-9219,1	470	410	395	20	162
	244,5	RCPR-9244,5							
	273	G 10		18.50	16.14	15.55	0.79	6.38	
	323,9	G 12							RCPR-9273
10	355,6	G 14		RCPR-10355,6	630	530	534	20	182
	406,4	G 16		RCPR-10406,4					
					24.80	20.87	21.02	0.79	7.17

dimensions $\frac{\text{mm}}{\text{Inch}}$

¹⁾Only Size 1-8 ²⁾without prestress

³⁾When assembling solid rubber tube clamps, cover plates, hexagon screws and locking washers must be used

Complete range please refer to pages 43 to 48.



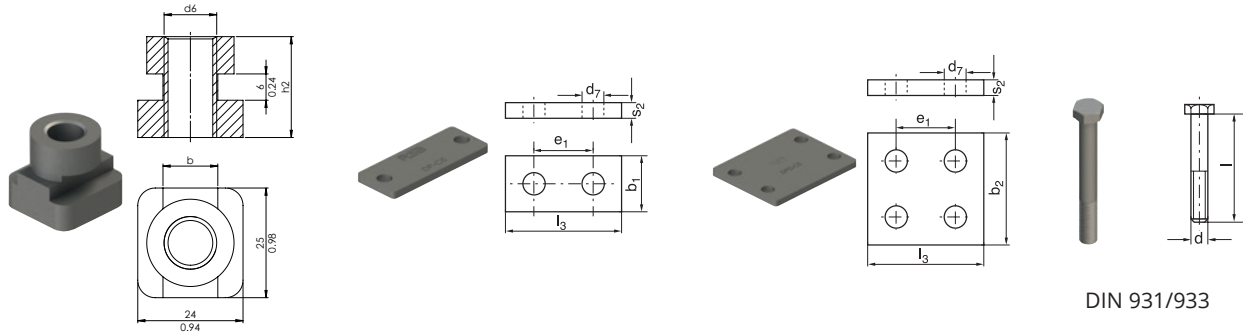
SIZE	AP-C Weld plate						APD-C Weld plate, double						APL-C Weld- and screw plate, elongated						TS-C Mounting rail				
	e ₁	b ₁	l ₂	s ₂	d ₆		e ₁	b ₂	l ₂	s ₂	d ₆		l ₂	b ₁	s ₂	e ₂	d ₇		l	h ₂			
1	AP-C 1	33	30	73	8	M 10	APD-C 1	33	60	73	8	M 10	APL-C 1	113	60	73	8	M 10	TS-C 1	1m	22		
		1.30	1.18	2.87	0.31	3/8-16 UNC		1.30	2.36	2.87	0.31	3/8-16 UNC		4.45	2.36	2.87	0.31	3/8-16 UNC					
2	AP-C 2	45	30	84	8	M 10	APD-C 2	45	60	84	8	M 10	APL-C 2	125	60	84	8	M 10		3.28 ft			
		1.77	1.18	3.31	0.31	3/8-16 UNC		1.77	2.36	3.31	0.31	3/8-16 UNC		4.92	2.36	3.31	0.31	3/8-16 UNC					
3	AP-C 3	60	30	100	8	M 10	APD-C 3	60	60	100	8	M 10	APL-C 3	140	60	100	8	M 10		TS-C 2		2m	0.87
		2.36	1.18	3.94	0.31	3/8-16 UNC		2.36	2.36	3.94	0.31	3/8-16 UNC		5.51	2.36	3.94	0.31	3/8-16 UNC					
4	AP-C 4	90	45	140	10	M 12	APD-C 4	90	90	140	10	M 12	APL-C 4	190	90	140	10	M 12					
		3.54	1.77	5.51	0.39	7/16-14 UNC		3.54	3.54	5.51	0.39	7/16-14 UNC		7.48	3.54	5.51	0.39	7/16-14 UNC					
5	AP-C 5	122	60	180	10	M 16	APD-C 5	122	120	180	10	M 16	APL-C 5	240	120	180	10	M 16					
		4.80	2.36	7.09	0.39	5/8-11 UNC		4.80	4.72	7.09	0.39	5/8-11 UNC		9.45	4.72	7.09	0.39	5/8-11 UNC					
6	AP-C 6	168	80	225	15	M 20	APD-C 6	168	160	225	15	M 20	APL-C 6	310	160	225	15	M 20					
		6.61	3.15	8.86	0.59	3/4-10 UNC		6.61	6.30	8.86	0.59	3/4-10 UNC		12.20	6.30	8.86	0.59	3/4-10 UNC					
7	AP-C 7	205	90	270	15	M 24	APD-C 7	205	180	270	15	M 24	APL-C 7	370	180	270	15	M 24					
		8.07	3.54	10.63	0.59	7/8-9 UNC		8.07	7.09	10.63	0.59	7/8-9 UNC		14.57	7.09	10.63	0.59	7/8-9 UNC					
8	AP-C 8	265	120	340	25	M 30	APD-C 8	265	240	340	25	M 30	APL-C 8	450	240	340	25	M 30					
		10.43	4.72	13.39	0.98	1 1/8-7 UNC		10.43	9.45	13.39	0.98	1 1/8-7 UNC		17.72	9.45	13.39	0.98	1 1/8-7 UNC					
9	AP-C 9	395	160	520	30	M 30	APD-C 9	395	330	520	30	M 30											
		15.55	6.30	20.47	1.18	1 1/8-7 UNC		15.55	12.99	20.47	1.18	1 1/8-7 UNC											
10	AP-C 10	534	180	680	30	M 30	APD-C 10	534	370	680	30	M 30											
		21.03	7.09	26.77	1.18	1 1/8-7 UNC		21.02	14.57	26.77	1.18	1 1/8-7 UNC											

dimensions mm
Inch



All metal parts available in stainless steel.

Complete range please refer to pages 43 to 48.



DIN 931/933

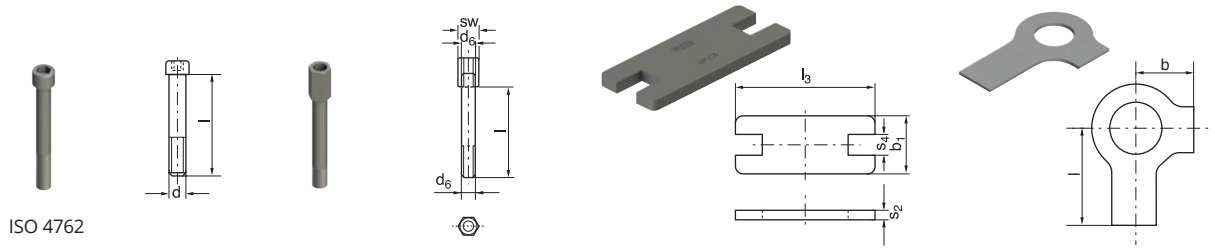
SIZE	TM-C Rail nut			DP-C Cover plate					DPD-C Cover plate, double					SS-C Hexagon head screw					
	h ₂	b	d ₆	l ₃	e ₁	b ₁	s ₂	d ₇	l ₃	e ₁	b ₂	s ₂	d ₇	d	x	l			
1	20 0.79	12 0.47	M 10 3/8-16 UNC	DP-C 1	55 2.17	33 1.30	30 1.18	8 0.31	11 0.43	DPD-C 1	55 2.17	33 1.30	60 2.36	8 0.31	11 0.43	SS-C 1	M 10 x 40 3/8-16 UNC x 1 1/2		
2				DP-C 2	70 2.76	45 1.77	30 1.18	8 0.31	11 0.43	DPD-C 2	70 2.76	45 1.77	60 2.36	8 0.31	11 0.43	SS-C 2	M 10 x 60 3/8-16 UNC x 1 3/8		
3				DP-C 3	85 3.35	60 2.36	30 1.18	8 0.31	11 0.43	DPD-C 3	85 3.35	60 2.36	60 2.36	8 0.31	11 0.43	SS-C 3	M 10 x 70 3/8-16 UNC x 2 3/4		
4	23 0.91	12,5 0.49	M 12 7/16-14 UNC	DP-C 4	115 4.53	90 3.54	45 1.77	10 0.39	14 0.55	DPD-C 4	115 4.53	90 3.54	90 3.54	10 0.39	14 0.55	SS-C 4	M 12 x 100 7/16-14 UNC x 4		
5				DP-C 5	152 5.98	122 4.80	60 2.36	10 0.39	18 0.71	DPD-C 5	152 5.98	122 4.80	120 4.72	10 0.39	18 0.71	SS-C 5	M 16 x 130 5/8-11 UNC x 5 1/4		
6	205 8.07	168 6.61	80 3.15	15 0.59	22 0.87	DP-C 6	205 8.07	168 6.61	80 3.15	15 0.59	22 0.87	DPD-C 6	205 8.07	168 6.61	160 6.30	15 0.59	24 0.87	SS-C 6	M 20 x 190 3/4-10 UNC x 7 1/2
7						DP-C 7	251 9.88	205 8.07	90 3.54	15 0.59	28 1.10	DPD-C 7	250 9.88	205 8.07	180 7.09	15 0.59	28 1.10	SS-C 7	M 24 x 220 7/8-9 UNC x 8 3/4
8						DP-C 8	320 12.60	265 10.43	120 4.72	25 0.98	35 1.38	DPD-C 8	322 12.60	265 10.43	240 9.45	25 0.98	35 1.38	SS-C 8	M 30 x 300 1 1/8-7 UNC x 12
9	470 18.50	395 15.55	160 6.30	30 1.18	35 1.38	DP-C 9	470 18.50	395 15.55	160 6.30	30 1.18	35 1.38	DPD-C 9	470 18.50	395 15.55	330 12.99	30 1.18	35 1.38	SS-C 9	M 30 x 450 1 1/8-7 UNC x 17 1/2
10						DP-C 10	630 24.80	534 21.02	180 7.09	30 1.18	35 1.38	DPD-C 10	630 24.80	534 21.02	360 14.17	30 1.18	35 1.38	SS-C 10	M 30 x 560 1 1/8-7 UNC x 22

dimensions mm
Inch

All metal parts available in stainless steel.



Complete range please refer to pages 43 to 48.



SIZE	IS-C Hexagon socket head screw			AS-C Stacking bolt ¹⁾			SP-C Locking plate ¹⁾				US-C Locking washer ²⁾		
	d	x	l	l	d ₆	sw	l ₃	b ₁	s ₂	s ₄	b	l	
1	IS-C 1	M 10 x 40	AS-C 1	25	M 10	15	SP-C 1	55	30	8	15,5	13	22
		3/8-16 UNC x 1 1/2		0.98									
2	IS-C 2	M 10 x 60	AS-C 2	40	M 10	15	SP-C 2	70	30	8	15,5	15	28
		3/8-16 UNC x 1 3/8		1.57									
3	IS-C 3	M 10 x 70	AS-C 3	50	M 10	15	SP-C 3	85	30	8	15,5	18	32
		3/8-16 UNC x 2 3/4		1.97									
4	IS-C 4	M 12 x 100	AS-C 4	80	M 12	17	SP-C 4	115	45	10	17,5	21	36
		7/16-14 UNC x 4		3.15									
5	IS-C 5	M 16 x 130	AS-C 5	110	M 16	21	SP-C 5	152	60	10	21,5	25	42
		5/8-11 UNC x 5 1/4		4.33									
6	IS-C 6	M 20 x 190	AS-C 6	155	M 20	27	SP-C 6	205	80	15	27,5	32	52
		3/4-10 UNC x 7 1/2		6.10									
7	IS-C 7	M 24 x 220	AS-C 7	180	M 24	30	SP-C 7	250	90	15	30,5	36	52
		7/8-9 UNC x 8 3/4		7.09									
8	IS-C 8	M 30 x 300	AS-C 8	250	M 30	36	SP-C 8	320	120	25	36,5	32	52
		1 1/8-7 UNC x 12		9.84									
9	IS-C 9	M 30 x 450											
10	IS-C 10	M 30 x 560											
		1 1/8-7 UNC x 22											

dimensions $\frac{\text{mm}}{\text{Inch}}$

All metal parts available in stainless steel.

¹⁾The usage of stacking bolts necessitates the deployment of locking plates during the construction assembly

²⁾When assembling solid rubber clamps, cover plates, hexagon screws and locking washers must be used



TUBE CLAMPS SERIES C | COMPLETE RANGE

Order codes for clamp-halves:

Polypropylene inside smooth	RCPR
Polyamide 6 inside smooth	RCPG¹⁾
Rubber	RCNR
	RCNG¹⁾
	RCVR^{1) 3)}
	RCVG^{1) 3)}
Aluminium	RCAR

Replace standard abbreviation RCPR in column "Order codes" as required.

2 clamp halves with weld plate, cover plate and hexagon head screws



2 clamp halves with weld plate, cover plate and hexagon socket head screws



SIZE	O.D. mm	Tube NB	Inch O.D.	Order Codes	Order Codes
1	6	G 1/8	5/16	RCPR 1-106	RCPR 2-106
	8			RCPR 1-108	RCPR 2-108
	9,5			RCPR 1-109,5	RCPR 2-109,5
	10			RCPR 1-110	RCPR 2-110
	12	G 1/4	1/2	RCPR 1-112	RCPR 2-112
	12,7			RCPR 1-112,7	RCPR 2-112,7
	13,5			RCPR 1-113,5	RCPR 2-113,5
	14	G 3/8	5/8	RCPR 1-114	RCPR 2-114
	15			RCPR 1-115	RCPR 2-115
	16			RCPR 1-116	RCPR 2-116
	17,2			RCPR 1-117,2	RCPR 2-117,2
18	RCPR 1-118			RCPR 2-118	
2	19	G 1/2	3/4	RCPR 1-219	RCPR 2-219
	20			RCPR 1-220	RCPR 2-220
	21,3			RCPR 1-221,3	RCPR 2-221,3
	22			RCPR 1-222	RCPR 2-222
	23			RCPR 1-223	RCPR 2-223
	25	G 3/4	1	RCPR 1-225	RCPR 2-225
	25,4			RCPR 1-225,4	RCPR 2-225,4
	26,9			RCPR 1-226,9	RCPR 2-226,9
	28			RCPR 1-228	RCPR 2-228
	30			RCPR 1-230	RCPR 2-230
3	30	G 1	1 1/4	RCPR 1-330	RCPR 2-330
	32			RCPR 1-332	RCPR 2-332
	33,7			RCPR 1-333,7	RCPR 2-333,7
	35	G 1 1/4	1 1/2	RCPR 1-335	RCPR 2-335
	38			RCPR 1-338	RCPR 2-338
	40			RCPR 1-340	RCPR 2-340
42			RCPR 1-342	RCPR 2-342	
4	38	G 1 1/4	1 1/2	RCPR 1-438	RCPR 2-438
	40			RCPR 1-440	RCPR 2-440
	42			RCPR 1-442	RCPR 2-442
	45			RCPR 1-445	RCPR 2-445
	48,3	G 1 1/2	2	RCPR 1-448,3	RCPR 2-448,3
	50			RCPR 1-450	RCPR 2-450
	51	G 2	2 1/4	RCPR 1-451	RCPR 2-451
	52			RCPR 1-452	RCPR 2-452
	55			RCPR 1-455	RCPR 2-455
	57			RCPR 1-457	RCPR 2-457
	60,3			RCPR 1-460,3	RCPR 2-460,3
	63			RCPR 1-463	RCPR 2-463
	65	2 1/2	2 1/2	RCPR 1-465	RCPR 2-465
	70			RCPR 1-470	RCPR 2-470

If different combinations are required, we would be obliged if they could be ordered as separate components (Please refer to individual components, pages 38 – 42). Delivery in unassembled individual components. ¹⁾Only Size 1-8 ³⁾When assembling solid rubber tube clamps, cover plates, hexagon screws and locking washers must be used

Order codes for clamp-halves:

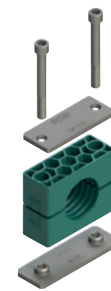
Polypropylene **RCPR**
 inside smooth **RCPG¹⁾**
 Polyamide 6 **RCNR**
 inside smooth **RCNG¹⁾**
 Rubber **RCVR^{1) 3)}**
RCVG^{1) 3)}
 Aluminium **RCAR**

Replace standard abbreviation RCPR in column "Order codes" as required.

2 clamp halves with weld plate, cover plate and hexagon head screws



2 clamp halves with weld plate, cover plate and hexagon socket head screws



SIZE	O.D. mm	Tube NB	Inch O.D.	Order Codes	Order Codes
5	65	G 2 ¹ / ₂	3	RCPR 1-565	RCPR 2-565
	70			RCPR 1-570	RCPR 2-570
	73			RCPR 1-573	RCPR 2-573
	75			RCPR 1-575	RCPR 2-575
	76,1			RCPR 1-576,1	RCPR 2-576,1
	80	G 3	3 ¹ / ₂	RCPR 1-580	RCPR 2-580
	82,5			RCPR 1-582,5	RCPR 2-582,5
	85			RCPR 1-585	RCPR 2-585
	88,9			RCPR 1-588,9	RCPR 2-588,9
	90			RCPR 1-590	RCPR 2-590
6	90	G 3 ¹ / ₂	4	RCPR 1-690	RCPR 2-690
	97			RCPR 1-697	RCPR 2-697
	100			RCPR 1-6100	RCPR 2-6100
	101,6	G 4	4 ¹ / ₂	RCPR 1-6101,6	RCPR 2-6101,6
	108			RCPR 1-6108	RCPR 2-6108
	114,3			RCPR 1-6114,3	RCPR 2-6114,3
127		5	RCPR 1-6127	RCPR 2-6127	
7	127	G 5	5	RCPR 1-7127	RCPR 2-7127
	130			RCPR 1-7130	RCPR 2-7130
	133			RCPR 1-7133	RCPR 2-7133
	140			RCPR 1-7140	RCPR 2-7140
	150	G 6	6	RCPR 1-7150	RCPR 2-7150
	152,4			RCPR 1-7152,4	RCPR 2-7152,4
	159			RCPR 1-7159	RCPR 2-7159
	165,1			RCPR 1-7165,1	RCPR 2-7165,1
168,3			RCPR 1-7168,3	RCPR 2-7168,3	
8	168,3	G 6	8	RCPR 1-8168,3	RCPR 2-8168,3
	177,8			RCPR 1-8177,8	RCPR 2-8177,8
	193,7			RCPR 1-8193,7	RCPR 2-8193,7
	203	G 8		RCPR 1-8203	RCPR 2-8203
	219,1			RCPR 1-8219,1	RCPR 2-8219,1
	220			RCPR 1-8220	RCPR 2-8220
9	219,1	G 8		RCPR 1-9219,1	RCPR 2-9219,1
	244,5	G 10		RCPR 1-9244,5	RCPR 2-9244,5
	273	G 12		RCPR 1-9273	RCPR 2-9273
	323,9			RCPR 1-9323,9	RCPR 2-9323,9
10	355,6	G 14		RCPR 1-10355,6	RCPR 2-10355,6
	406,4	G 16		RCPR 1-10406,4	RCPR 2-10406,4

If different combinations are required, we would be obliged if they could be ordered as separate components (Please refer to individual components, pages 38 – 42). Delivery in unassembled individual components. ¹⁾Only Size 1–8 ³⁾When assembling solid rubber tube clamps, cover plates, hexagon screws and locking washers must be used

TUBE CLAMPS SERIES C | COMPLETE RANGE

Order codes for clamp-halves:

Polypropylene **RCPR**
 inside smooth **RCPG¹⁾**
 Polyamide 6 **RCNR**
 inside smooth **RCNG¹⁾**
 Rubber **RCVR^{1) 3)}**
RCVG^{1) 3)}
 Aluminium **RCAR**

Replace standard abbreviation RCPR in column "Order codes" as required.

2 clamp halves with rail nut, cover plate and hexagon head screws

2 clamp halves with rail nut, cover plate and hexagon socket head screws

2 clamp halves with stacking bolts and locking plate



SIZE	O.D. mm	Tube NB	Inch O.D.	Order Codes	Order Codes	Order Codes
1	6	G 1/8	5/16	RCPR 3-106	RCPR 4-106	RCPR 5-106
	8			RCPR 3-108	RCPR 4-108	RCPR 5-108
	9,5			RCPR 3-109,5	RCPR 4-109,5	RCPR 5-109,5
	10			RCPR 3-110	RCPR 4-110	RCPR 5-110
	12	G 1/4	1/2	RCPR 3-112	RCPR 4-112	RCPR 5-112
	12,7			RCPR 3-112,7	RCPR 4-112,7	RCPR 5-112,7
	13,5			RCPR 3-113,5	RCPR 4-113,5	RCPR 5-113,5
	14	G 3/8	5/8	RCPR 3-114	RCPR 4-114	RCPR 5-114
	15			RCPR 3-115	RCPR 4-115	RCPR 5-115
	16			RCPR 3-116	RCPR 4-116	RCPR 5-116
	17,2			RCPR 3-117,2	RCPR 4-117,2	RCPR 5-117,2
18	RCPR 3-118			RCPR 4-118	RCPR 5-118	
2	19	G 1/2	3/4	RCPR 3-219	RCPR 4-219	RCPR 5-219
	20			RCPR 3-220	RCPR 4-220	RCPR 5-220
	21,3			RCPR 3-221,3	RCPR 4-221,3	RCPR 5-221,3
	22			RCPR 3-222	RCPR 4-222	RCPR 5-222
	23			RCPR 3-223	RCPR 4-223	RCPR 5-223
	25	G 3/4	1	RCPR 3-225	RCPR 4-225	RCPR 5-225
	25,4			RCPR 3-225,4	RCPR 4-225,4	RCPR 5-225,4
	26,9			RCPR 3-226,9	RCPR 4-226,9	RCPR 5-226,9
	28			RCPR 3-228	RCPR 4-228	RCPR 5-228
	30			RCPR 3-230	RCPR 4-230	RCPR 5-230
3	30	G 1	1 1/4	RCPR 3-330	RCPR 4-330	RCPR 5-330
	32			RCPR 3-332	RCPR 4-332	RCPR 5-332
	33,7			RCPR 3-333,7	RCPR 4-333,7	RCPR 5-333,7
	35	G 1 1/4	1 1/2	RCPR 3-335	RCPR 4-335	RCPR 5-335
	38			RCPR 3-338	RCPR 4-338	RCPR 5-338
	40			RCPR 3-340	RCPR 4-340	RCPR 5-340
42			RCPR 3-342	RCPR 4-342	RCPR 5-342	
4	38	G 1 1/4	1 1/2	RCPR 3-438	RCPR 4-438	RCPR 5-438
	40			RCPR 3-440	RCPR 4-440	RCPR 5-440
	42			RCPR 3-442	RCPR 4-442	RCPR 5-442
	45			RCPR 3-445	RCPR 4-445	RCPR 5-445
	48,3	G 1 1/2	2	RCPR 3-448,3	RCPR 4-448,3	RCPR 5-448,3
	50			RCPR 3-450	RCPR 4-450	RCPR 5-450
	51			RCPR 3-451	RCPR 4-451	RCPR 5-451
	52	G 2	2 1/4	RCPR 3-452	RCPR 4-452	RCPR 5-452
	55			RCPR 3-455	RCPR 4-455	RCPR 5-455
	57			RCPR 3-457	RCPR 4-457	RCPR 5-457
	60,3			RCPR 3-460,3	RCPR 4-460,3	RCPR 5-460,3
	63			RCPR 3-463	RCPR 4-463	RCPR 5-463
	65	2 1/2	2 1/2	RCPR 3-465	RCPR 4-465	RCPR 5-465
	70			RCPR 3-470	RCPR 4-470	RCPR 5-470

If different combinations are required, we would be obliged if they could be ordered as separate components (Please refer to individual components, pages 38 – 42). Delivery in unassembled individual components. ¹⁾Only Size 1-8 ³⁾When assembling solid rubber tube clamps, cover plates, hexagon screws and locking washers must be used

Order codes for clamp-halves:

- Polypropylene **RCPR**
- inside smooth **RCPG¹⁾**
- Polyamide 6 **RCNR**
- inside smooth **RCNG¹⁾**
- Rubber **RCVR^{1) 3)}**
- RCVG^{1) 3)}**
- Aluminium **RCAR**

Replace standard abbreviation RCPR in column "Order codes" as required.

2 clamp halves with rail nut, cover plate and hexagon head screws

2 clamp halves with rail nut, cover plate and hexagon socket head screws

2 clamp halves with stacking bolts and locking plate



SIZE	O.D. mm	Tube NB	Inch O.D.	Order Codes	Order Codes	Order Codes
5	65	G 2 1/2	3			RCPR 5-565
	70					RCPR 5-570
	73					RCPR 5-573
	75					RCPR 5-575
	76,1					RCPR 5-576,1
	80	RCPR 5-580				
	82,5	RCPR 5-582,5				
	85	RCPR 5-585				
	88,9	RCPR 5-588,9				
90	G 3	3 1/2	RCPR 5-590			
6	90	G 3 1/2	4			RCPR 5-690
	97					RCPR 5-697
	100					RCPR 5-6100
	101,6	RCPR 5-6101,6				
	108	RCPR 5-6108				
	114,3	G 4	4 1/2			RCPR 5-6114,3
127	5	RCPR 5-6127				
7	127	G 5	5			RCPR 5-7127
	130					RCPR 5-7130
	133					RCPR 5-7133
	140					RCPR 5-7140
	150	G 6	6			RCPR 5-7150
	152,4					RCPR 5-7152,4
	159					RCPR 5-7159
	165,1					RCPR 5-7165,1
168,3	RCPR 5-7168,3					
8	168,3	G 6	8			RCPR 5-8168,3
	177,8	RCPR 5-8177,8				
	193,7	RCPR 5-8193,7				
	203	RCPR 5-8203				
	219,1	G 8				RCPR 5-8219,1
	220	RCPR 5-8220				

If different combinations are required, we would be obliged if they could be ordered as separate components (Please refer to individual components, pages 38 – 42). Delivery in unassembled individual components. ¹⁾Only Size 1-8 ³⁾When assembling solid rubber tube clamps, cover plates, hexagon screws and locking washers must be used

TUBE CLAMPS SERIES C | COMPLETE RANGE

Order codes for clamp-halves:

Polypropylene **RCPR**
 inside smooth **RCPG¹⁾**
 Polyamide 6 **RCNR**
 inside smooth **RCNG¹⁾**
 Rubber **RCVR^{1) 3)}**
RCVG^{1) 3)}
 Aluminium **RCAR**

Replace standard abbreviation RCPR in column "Order codes" as required.

4 clamp halves with double weld plate, double cover plate and hexagon head screws



4 clamp halves with double weld plate, double cover plate and hexagon socket head screws



SIZE	O.D. mm	Tube NB	Inch O.D.	Order Codes	Order Codes
1	6	G 1/8	5/16 3/8	RCPDR 1-106	RCPDR 2-106
	8			RCPDR 1-108	RCPDR 2-108
	9,5			RCPDR 1-109,5	RCPDR 2-109,5
	10			RCPDR 1-110	RCPDR 2-110
	12			RCPDR 1-112	RCPDR 2-112
	12,7	G 1/4	1/2	RCPDR 1-112,7	RCPDR 2-112,7
	13,5			RCPDR 1-113,5	RCPDR 2-113,5
	14			RCPDR 1-114	RCPDR 2-114
	15	G 3/8	5/8	RCPDR 1-115	RCPDR 2-115
	16			RCPDR 1-116	RCPDR 2-116
	17,2			RCPDR 1-117,2	RCPDR 2-117,2
18	RCPDR 1-118			RCPDR 2-118	
2	19	G 1/2	3/4	RCPDR 1-219	RCPDR 2-219
	20			RCPDR 1-220	RCPDR 2-220
	21,3			RCPDR 1-221,3	RCPDR 2-221,3
	22			RCPDR 1-222	RCPDR 2-222
	23			RCPDR 1-223	RCPDR 2-223
	25	G 3/4	1	RCPDR 1-225	RCPDR 2-225
	25,4			RCPDR 1-225,4	RCPDR 2-225,4
	26,9			RCPDR 1-226,9	RCPDR 2-226,9
	28			RCPDR 1-228	RCPDR 2-228
	30			RCPDR 1-230	RCPDR 2-230
3	30	G 1	1 1/4	RCPDR 1-330	RCPDR 2-330
	32			RCPDR 1-332	RCPDR 2-332
	33,7			RCPDR 1-333,7	RCPDR 2-333,7
	35			RCPDR 1-335	RCPDR 2-335
	38	G 1 1/4	1 1/2	RCPDR 1-338	RCPDR 2-338
	40			RCPDR 1-340	RCPDR 2-340
42			RCPDR 1-342	RCPDR 2-342	
4	38	G 1 1/4	1 1/2	RCPDR 1-438	RCPDR 2-438
	40			RCPDR 1-440	RCPDR 2-440
	42			RCPDR 1-442	RCPDR 2-442
	45	G 1 1/2	2	RCPDR 1-445	RCPDR 2-445
	48,3			RCPDR 1-448,3	RCPDR 2-448,3
	50			RCPDR 1-450	RCPDR 2-450
	51			RCPDR 1-451	RCPDR 2-451
	52	G 2	2 1/4	RCPDR 1-452	RCPDR 2-452
	55			RCPDR 1-455	RCPDR 2-455
	57			RCPDR 1-457	RCPDR 2-457
	60,3			RCPDR 1-460,3	RCPDR 2-460,3
	63			RCPDR 1-463	RCPDR 2-463
	65	2 1/2	2 1/2	RCPDR 1-465	RCPDR 2-465
70	RCPDR 1-470			RCPDR 2-470	

If different combinations are required, we would be obliged if they could be ordered as separate components (Please refer to individual components, pages 38 – 42). Delivery in unassembled individual components. ¹⁾Only Size 1-8 ³⁾When assembling solid rubber tube clamps, cover plates, hexagon screws and locking washers must be used

Order codes for clamp-halves:

Polypropylene **RCPR**
 inside smooth **RCPG¹⁾**
 Polyamide 6 **RCNR**
 inside smooth **RCNG¹⁾**
 Rubber **RCVR^{1) 3)}**
RCVG^{1) 3)}
 Aluminium **RCAR**

Replace standard abbreviation RCPR in column "Order codes" as required.

4 clamp halves with double weld plate, double cover plate and hexagon head screws



4 clamp halves with double weld plate, double cover plate and hexagon socket head screws



SIZE	O.D. mm	Tube NB	Inch O.D.	Order Codes	Order Codes
5	65	G 2 1/2	2 3/4	RCPDR 1-565	RCPDR 2-565
	70			RCPDR 1-570	RCPDR 2-570
	73			RCPDR 1-573	RCPDR 2-573
	75		RCPDR 1-575	RCPDR 2-575	
	76,1		RCPDR 1-576,1	RCPDR 2-576,1	
	80	G 3	3	RCPDR 1-580	RCPDR 2-580
	82,5			RCPDR 1-582,5	RCPDR 2-582,5
	85		RCPDR 1-585	RCPDR 2-585	
	88,9		RCPDR 1-588,9	RCPDR 2-588,9	
90	RCPDR 1-590	RCPDR 2-590			
6	90	G 3 1/2	4	RCPDR 1-690	RCPDR 2-690
	97			RCPDR 1-697	RCPDR 2-697
	100			RCPDR 1-6100	RCPDR 2-6100
	101,6	G 4	4 1/2	RCPDR 1-6101,6	RCPDR 2-6101,6
	108			RCPDR 1-6108	RCPDR 2-6108
	114,3			RCPDR 1-6114,3	RCPDR 2-6114,3
127	RCPDR 1-6127	RCPDR 2-6127			
7	127	G 5	5	RCPDR 1-7127	RCPDR 2-7127
	130			RCPDR 1-7130	RCPDR 2-7130
	133			RCPDR 1-7133	RCPDR 2-7133
	140			RCPDR 1-7140	RCPDR 2-7140
	150	G 6	6	RCPDR 1-7150	RCPDR 2-7150
	152,4			RCPDR 1-7152,4	RCPDR 2-7152,4
	159			RCPDR 1-7159	RCPDR 2-7159
	165,1			RCPDR 1-7165,1	RCPDR 2-7165,1
168,3	RCPDR 1-7168,3	RCPDR 2-7168,3			
8	168,3	G 6	8	RCPDR 1-8168,3	RCPDR 2-8168,3
	177,8			RCPDR 1-8177,8	RCPDR 2-8177,8
	193,7			RCPDR 1-8193,7	RCPDR 2-8193,7
	203	G 8		RCPDR 1-8203	RCPDR 2-8203
	219,1			RCPDR 1-8219,1	RCPDR 2-8219,1
	220			RCPDR 1-8220	RCPDR 2-8220
9	219,1	G 8		RCPDR 1-9219,1	RCPDR 2-9219,1
	244,5			RCPDR 1-9244,5	RCPDR 2-9244,5
	273	G 10		RCPDR 1-9273	RCPDR 2-9273
	323,9			G 12	RCPDR 1-9323,9
10	355,6	G 14			RCPDR 1-10355,6
	406,4			G 16	RCPDR 1-10406,4

If different combinations are required, we would be obliged if they could be ordered as separate components (Please refer to individual components, pages 38 – 42). Delivery in unassembled individual components. ¹⁾Only Size 1-8 ³⁾When assembling solid rubber tube clamps, cover plates, hexagon screws and locking washers must be used

// 04

TWIN CLAMP HEAVY SERIES

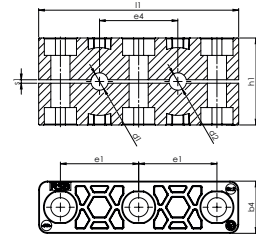


TWIN CLAMP HEAVY SERIES

Order codes for clamp-halves:

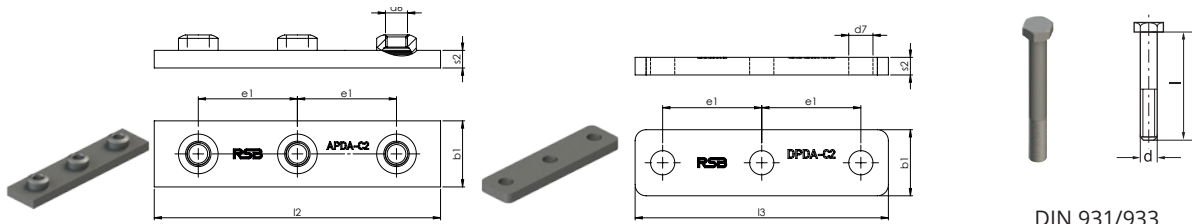
Polypropylene **RCPRD**
Polyamide 6 **RCNRD**

Replace standard abbreviation RCPRD in column "clamp-halves" as required.



SIZE	O.D. mm	Tube NB	Inch O.D.	RCPRD 1 part / 2 clamp-halves	RCPRD-... 2 clamp-halves						
	d ₁ /d ₂				l ₁	h ₁	e ₁	e ₄	s ₁	b ₄	
2	10	G 1/8		RCPRD-210							
	12,7		1/2	RCPRD-212,7							
	19		3/4	RCPRD-219							
	20			RCPRD-220							
	21,3	G 1/2		RCPRD-221,3	115	50	45	45	2	30	
	22			RCPRD-222	4.53	1.97	1.77	1.77	0.08	1.18	
	25,4		1	RCPRD-225,4							
	26,9	G 3/4		RCPRD-226,9							
	28			RCPRD-228							
30			RCPRD-230								
3	30			RCPRD-330							
	32		1 1/4	RCPRD-332							
	33,7	G 1		RCPRD-333,7	145	60	60	60	2	30	
	35			RCPRD-335	5.71	2.36	2.36	2.36	0.08	1.18	
	38		1 1/2	RCPRD-338							
	40			RCPRD-340							
	42	G 1 1/4		RCPRD-342							

Tube clamps with different outer tube diameter upon request.



DIN 931/933

SIZE		APDA-C Weld plate					DPDA-C Cover plate					SS-C Hexagon head screw				
		e ₁	b ₁	l ₂	s ₂	d ₆	l ₃	e ₁	b ₁	s ₂	d ₇	d	x	l		
2	APDA-C2	45	30	130	8	M10	DPDA-C2	115	45	30	8	11	SS-C2	M10	x	60
		1.77	1.18	5.12	0.31	3/8-16 UNC		4.53	1.77	1.18	0.31	0.43				
3	APDA-C3	60	30	160	8	M10	DPDA-C3	145	60	30	8	11	SS-C3	M10	x	70
		2.36	1.18	6.30	0.31	3/8-16 UNC		5.71	2.36	1.18	0.31	0.43				

dimensions $\frac{\text{mm}}{\text{Inch}}$

Also suitable for twin clamp heavy series:
- Hexagon socket head screw IS-C (heavy series, size 2 and 3)
- Fixed adaptor BA (heavy series, size 2 and 3)

- Rail nut TM-C (heavy series, size 2 and 3)
- Mounting rail TS-C (heavy series)
- Stacking bolt AS-C (heavy series, size 2 and 3)
- Locking plate SPD-C (heavy series, twin version)

All metal parts available in stainless steel.



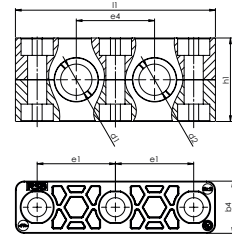
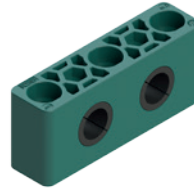
TWIN CLAMP HEAVY SERIES

Order codes

for clamp-halves:

Polypropylene **RCPEED**
Polyamide 6 **RCNEED**

Replace standard abbreviation
RCPEED in column "clamp-halves"
as required.



SIZE	O.D. mm	Tube NB	Inch O.D.	RCPEED 1 part / 2 clamp-halves	RCPEED-... 2 clamp-halves					
	d ₁ /d ₂				l ₁	h ₁	e ₁	e ₄	s ₁	b ₄
2	6			RCPEED-206	115	48	45	45	2	30
	8		5/16	RCPEED-208						
	10	G 1/8		RCPEED-210						
	12			RCPEED-212						
	12,7		1/2	RCPEED-212,7						
	14			RCPEED-214						
	15			RCPEED-215						
	16		5/8	RCPEED-216						
	17,2	G 3/8		RCPEED-217,2						
	18			RCPEED-218						
3	19		3/4	RCPEED-219	4.53	1.97	1.77	1.77	0.08	1.18
	20			RCPEED-320						
	21,3	G 1/2		RCPEED-321,3						
	22			RCPEED-322						
	23			RCPEED-323						
	25			RCPEED-325						
	26,9	G 3/4		RCPEED-326,9						
	28			RCPEED-328						
	30			RCPEED-330						
	32		1 1/4	RCPEED-332						

dimensions $\frac{\text{mm}}{\text{Inch}}$

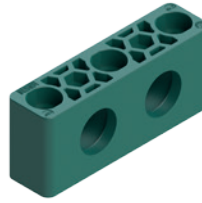
Tube clamps with inserts for different outer tube diameter upon request.

TWIN CLAMP HEAVY SERIES

Order codes for clamp-halves:

Polypropylene **RCPED**
Polyamide 6 **RCNED**

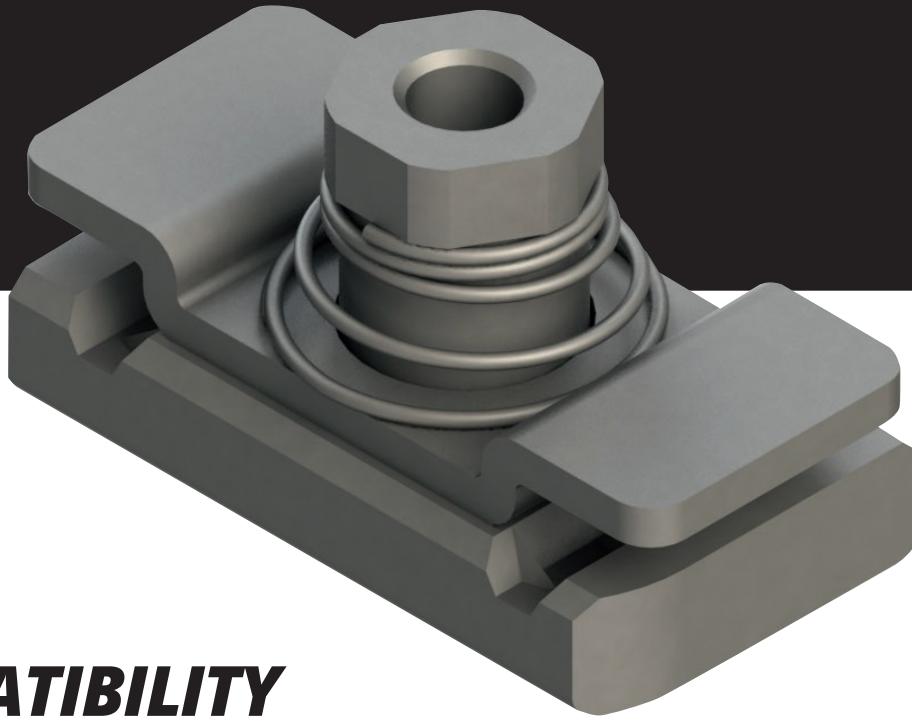
Replace standard abbreviation RCPED in column "clamp-halves" as required.



SIZE	O.D. mm d₁/d₂	Tube NB	Inch O.D.	RCPED Tube clamp suitable for insert	EE-... Noise protection insert
2	6			RCPED-2	EE-206/406
	8		$\frac{5}{16}$		EE-208/408
	10	G $\frac{1}{8}$			EE-210/410
	12				EE-212/412
	12,7		$\frac{1}{2}$		EE-212,7/412,7
	14				EE-214/414
	15				EE-215/415
	16		$\frac{5}{8}$		EE-216/416
	17,2	G $\frac{3}{8}$			EE-217,2/417,2
	18				EE-218/418
	19		$\frac{3}{4}$		EE-219/419
3	20			RCPED-3	EE-320/620
	21,3	G $\frac{1}{2}$			EE-321,3/621,3
	22				EE-322/622
	23				EE-323/623
	25				EE-325/625
	26,9	G $\frac{3}{4}$			EE-326,9/626,9
	28				EE-328/628
	30				EE-330/630
	32		$1\frac{1}{4}$		EE-332/632

// 04

FIXED ADAPTOR



// COMPATIBILITY

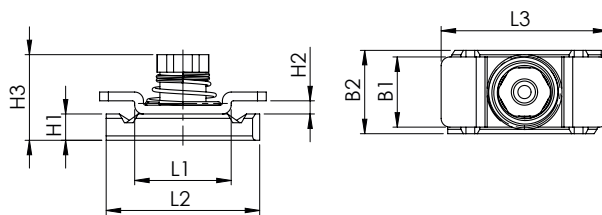
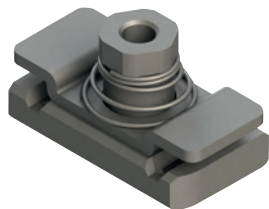
WITH CHANNEL RAILS

HILTI <i>Channel system MQ for medium load)</i>	HALFEN <i>Medium duty channel system)</i>	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.

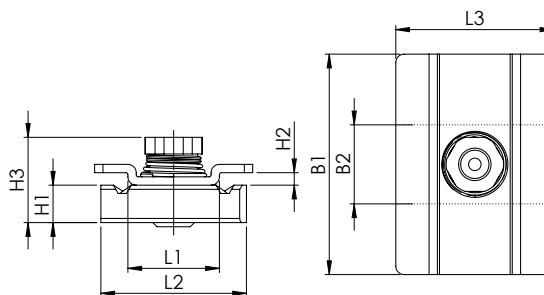
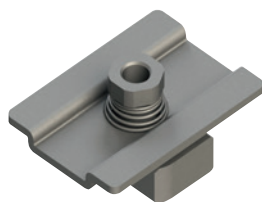


// FIXED ADAPTOR FOR SERIES A



SIZE	BA Fixed adaptor																		
	L1	L2	L3	B1	B2	H1	H2	H3	d6										
1	BA-A/B1	22	35	38	16	19	6	3	19,5	M6									
2																			
3																			
4																			
5											0.87	1.38	1.50	0.63	0.75	0.24	0.12	0.77	1/4-20 UNC
6																			
7																			
8																			

// FIXED ADAPTOR FOR SERIES B



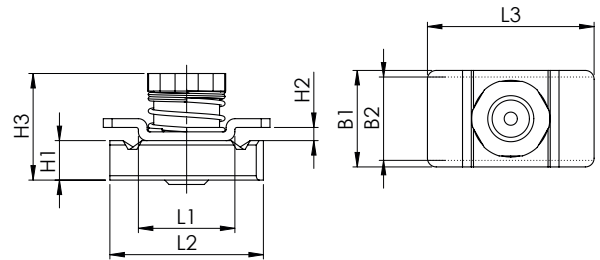
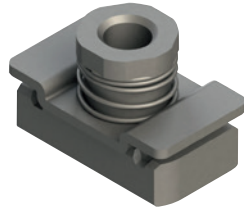
SIZE	BA Fixed adaptor									
	L1	L2	L3	B1	B2	H1	H2	H3	d6	
1	BA-A/B1	22	35	38	16	19	6	3	19,5	M6
2					0.63		0.24		0.77	1/4-20 UNC
3	BA-B2-3	0.87	1.38	1.50	53	0.75	9	0.12	23,5	M8
4					2.09					
5	BA-B4-5				80					
					3.15					

dimensions $\frac{\text{mm}}{\text{Inch}}$



Available: galvanized and stainless steel
Also available in UNC

// FIXED ADAPTOR FOR SERIES C



SIZE	BA Fixed adaptor								
	L1	L2	L3	B1	H1	H2	H3	d6	
1	22	35	38	22	9	3	24,3	M10	
2			1.50	0.87				¾-16 UNC	
3			0.87	1.38				45	25
4	0.87	1.38	1.77	0.98	0.35	0.12	25,8	7/16-14 UNC	

dimensions $\frac{\text{mm}}{\text{Inch}}$

// RECOMMENDED SCREW LENGTHS

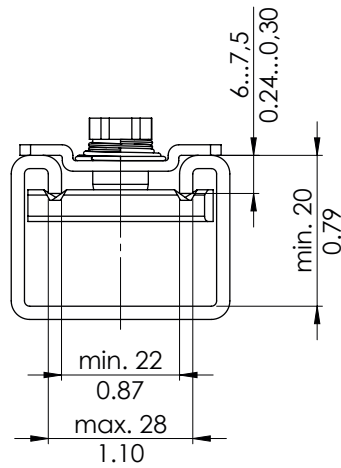
WHEN USING FIXED ADAPTOR BA FOR SERIES C

SIZE	Hexagon head screw (with cover plate) x 4	Hexagon socket head screw (without cover plate)	Stacking bolt
1	M10 x 40	M10 x 20 *	M10 x 20 *
	¾-16 UNC x 1½	¾-16 UNC x ¾ *	¾-16 UNC x ¾ *
2	M10 x 55 *	M10 x 35 *	M10 x 35 *
	¾-16 UNC x 1⅓ *	¾-16 UNC x 1⅜ v*	¾-16 UNC x 1⅜ *
3	M10 x 65 *	M10 x 50 *	M10 x 50 *
	¾-16 UNC x 1¼ *	¾-16 UNC x 2 *	¾-16 UNC x 2 *
4	M12 x 100	M12 x 75 *	M12 x 75 *
	7/16-14 UNC x 4	7/16-14 UNC x 3 *	7/16-14 UNC x 3 *

* for screws with special length (different from the catalogue) price on request

// BASIC DIMENSIONAL REQUIREMENTS

FOR CHANNEL RAILS TO BE USED WITH FIXED ADAPTOR BA



// EXAMPLE OF ORDER

BA-A/B1/Zn
 BA-B2-3/Mat.A4
 BA-C1-3/Zn/UNC

BA	-	A/B1	/	Zn
----	---	------	---	----

Serie
 A/B1
 B2-3
 B4-5
 C1-3
 C4

Features
 Zn= zinc plated
 Mat.A4= stainless steel A4
 UNC= UNC thread

BA=Fixed adaptor

UNLIMITED POSSIBILITIES:

ONE MOUNTING RAIL FOR ALL

**ASSEMBLY OF SERIES A, B AND C COMPONENTS
ON TS-C MOUNTING RAIL**

Design

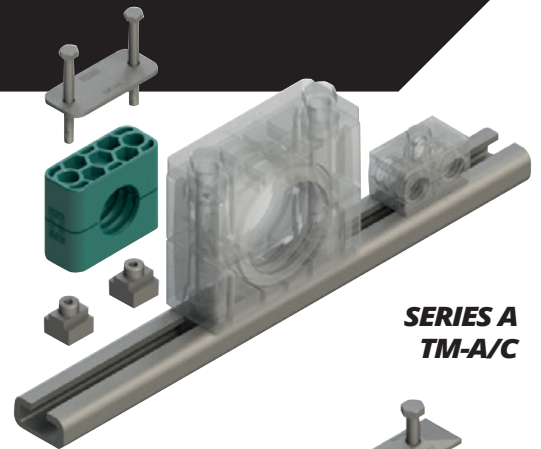
New mounting rail-nuts make it possible to mount standard tube clamps of our series A, B and C, on the heavy duty mounting rail, series C.

YOUR ADVANTAGE

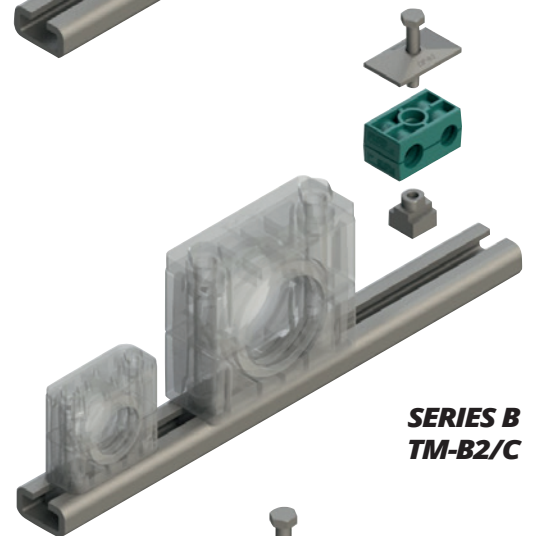
Combine reliable and field-tested components of our various series for a multitude of new applicability:

ONE MOUNTING RAIL – MORE FUNCTIONS!

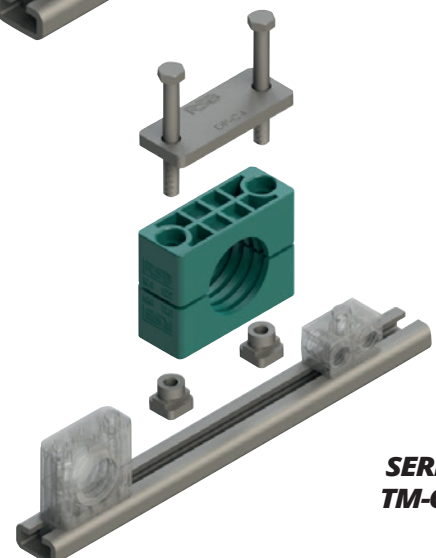
Also available in stainless steel.



**SERIES A
TM-A/C**



**SERIES B
TM-B2/C**



**SERIES C
TM-C1(4)**

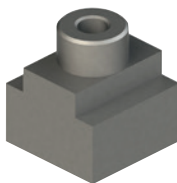


// RAIL NUTS

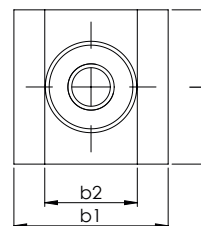
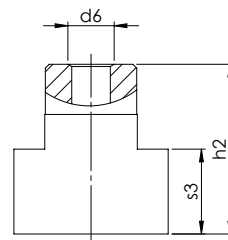
The easiest way to mount DIN 3015 tube clamps on a rail of our heavy duty series.

- Light construction - Series A
- Twin-tube clamps - Series B
- Heavy duty construction - Series C

Order codes: **TM-A/C**
TM-B2/C
TM-C1
TM-C4

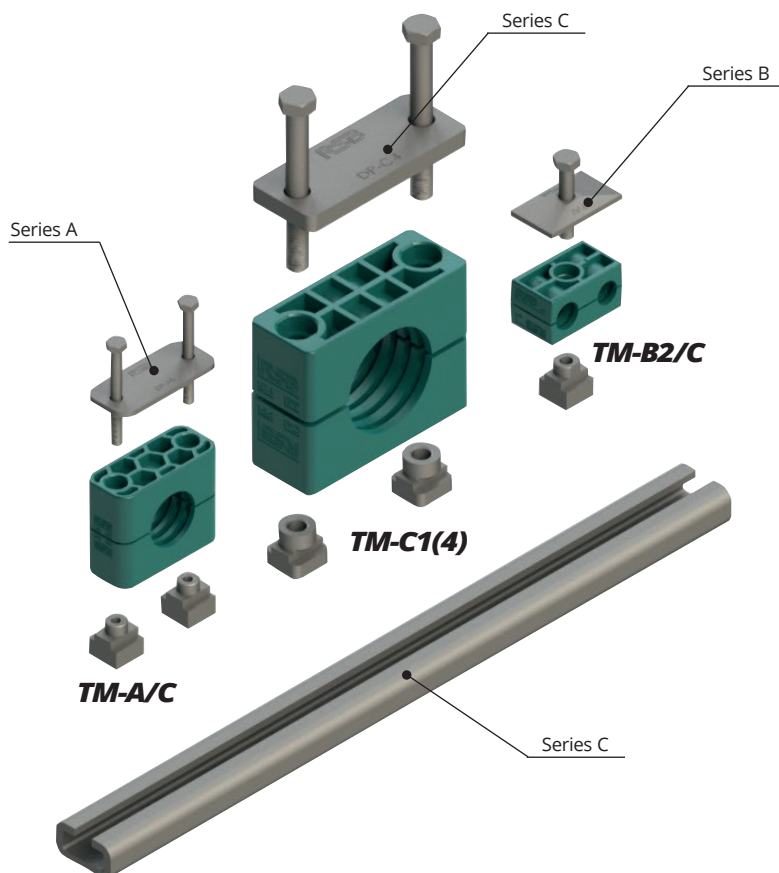


TM-A/C

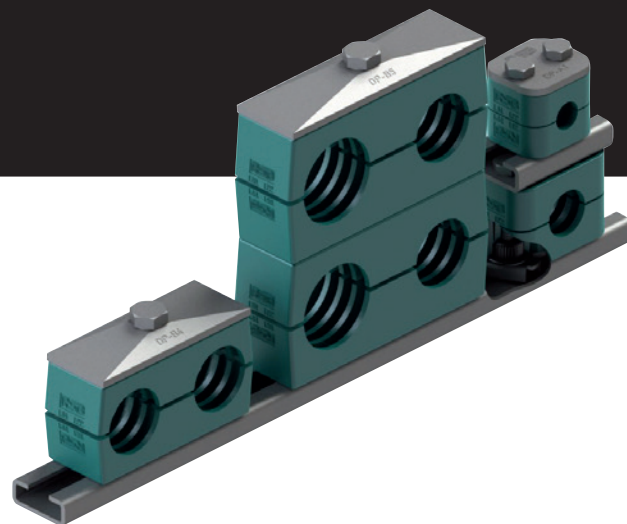


For clamps series	Order codes	d ₆	l	b ₁	b ₂	h ₂	s ₃
A / B1	TM-A/C	M 6	20	20	12	22	11
		¼-20 UNC	0.79	0.79	0.47	0.87	0.43
B2 - B5	TM-B2/C	M 8	20	20	12	22	11
		5/16-18 UNC	0.79	0.79	0.47	0.87	0.43
C1 - C3	TM-C1	M 10	25	24	12	20	7
		¾-16 UNC	0.98	0.94	0.47	0.79	0.28
C4	TM-C4	M 12	25	24	12,5	23	8,5
		7/16-14 UNC	0.98	0.94	0.49	0.91	0.33

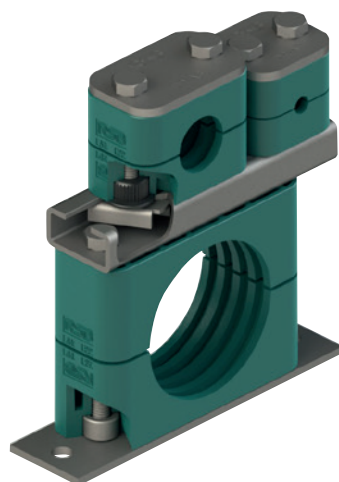
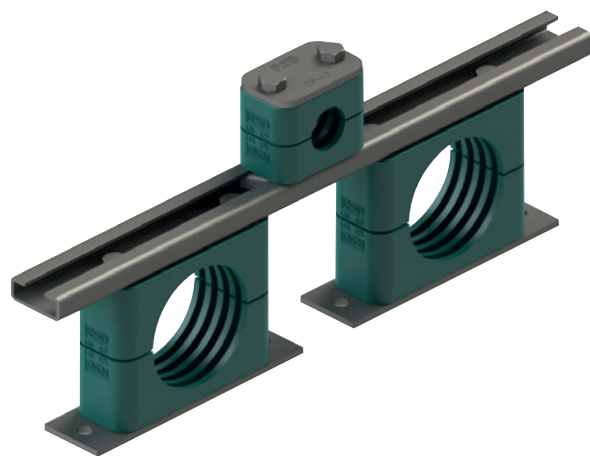
dimensions $\frac{\text{mm}}{\text{Inch}}$



EXAMPLES FOR THE ASSEMBLY WITH MOUNTING RAILS

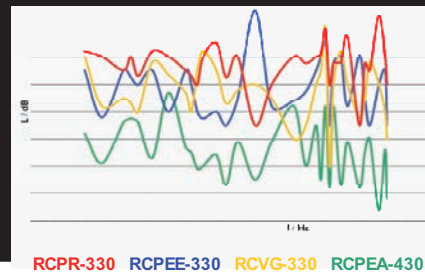


*EASILY ASSEMBLED
INDIVIDUAL COMBINATION
VERSATILE APPLICATION*



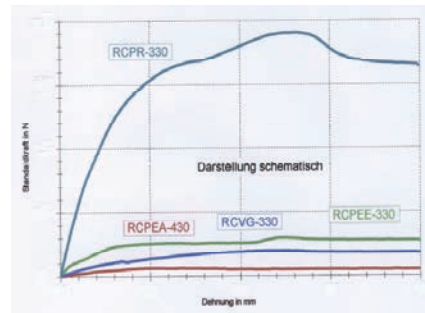
// 05

TUBE CLAMPS WITH NOISE PROTECTION INSERT



RCPR-330 RCPEE-330 RCVG-330 RCPEA-430

Comparison of the noise insulation properties of different tube clamps (schematic)



Comparison of the pipe shearing force of different tube clamps

THE SYSTEM FOR VIBRATION INSULATION AND STRUCTURE-BORNE NOISE INSULATION
THE SUITABLE SOLUTION FOR EACH APPLICATION!

The production of quiet machines, devices and equipment becomes more and more important due to the growing environmental awareness.

With our noise protection system

- Fully flexible tube clamps TPE
- Tube clamps with noise protection insert EE/TPE
- Tube clamps with noise protection insert EFA/TPE

you cover all fields of applications.

// LIGHT CONSTRUCTIONS SERIES



NOISE PROTECTION INSERT

Order codes for clamp-halves:
 Polypropylene **RAPE**
 Polyamide 6 **RANE**

Replace standard abbreviation RAPE or RAPEE in column "Series A" as required.

Order codes for noise protection insert: **EE-***

complete with clamp size and outside tube diameter, TPE 73° Shore

SIZE SERIES A	O.D. mm	Tube NB	Inch O.D.	SERIES A		Noise protection insert
				Tube clamp suitable for insert	Tube clamp with noise protection insert	
4	6	G 1/8	5/16	RAPE-4	RAPEE-406	EE-206/406
	8				RAPEE-408	EE-208/408
	10				RAPEE-410	EE-210/410
	12				RAPEE-412	EE-212/412
	12,7				RAPEE-412,7	EE-212,7/412,7
	14	RAPEE-414	EE-214/414			
	15	RAPEE-415	EE-215/415			
	16	RAPEE-416	EE-216/416			
	17,2	G 3/8	3/4		RAPEE-417,2	EE-217,2/417,2
	18				RAPEE-418	EE-218/418
	19				RAPEE-419	EE-219/419
5	20			RAPEE-520	EE-520	
	22			RAPEE-522	EE-522	
	25			RAPEE-525	EE-525	
	28			RAPEE-528	EE-528	
	30			RAPEE-530	EE-530	
6	20	G 1/2	5/8	RAPEE-620	EE-320/620	
	21,3			RAPEE-621,3	EE-321,3/621,3	
	22			RAPEE-622	EE-322/622	
	23			RAPEE-623	EE-323/623	
	25	G 3/4	1 1/4	RAPEE-625	EE-325/625	
	26,9			RAPEE-626,9	EE-326,9/626,9	
	28			RAPEE-628	EE-328/628	
	30			RAPEE-630	EE-330/630	
32	RAPEE-632	EE-332/632				
6	35	G 1 1/4	1 1/2	RAPEE-635	EE-635	
	38			RAPEE-638	EE-638	
	42			RAPEE-642	EE-642	
	45			RAPEE-645	EE-645	

Attention! For tube clamps with noise protection insert, the relation of diameter and size is not identical with the profile design or smooth design.

// HEAVY SERIES



NOISE PROTECTION INSERT

Order codes for clamp-halves:
 Polypropylene **RCPE**
 Polyamide 6 **RCNE**

Replace standard abbreviation RCPE or RCNE in column "Series C" as required.

Order codes for noise protection insert: **EE-***

complete with clamp size and outside tube diameter, TPE 73° Shore

SIZE SERIES C	O.D. mm	Tube NB	Inch O.D.	SERIES C		Noise protection insert
				Tube clamp suitable for insert	Tube clamp with noise protection insert	
2	6	G 1/8	5/16	RCPE-2	RCPEE-206	EE-206/406
	8				RCPEE-208	EE-208/408
	10				RCPEE-210	EE-210/410
	12				RCPEE-212	EE-212/412
	12,7				RCPEE-212,7	EE-212,7/412,7
	14	RCPEE-214	EE-214/414			
	15	RCPEE-215	EE-215/415			
	16	RCPEE-216	EE-216/416			
	17,2	RCPEE-217,2	EE-217,2/417,2			
	18	RCPEE-218	EE-218/418			
19	RCPEE-219	EE-219/419				
3	20	G 1/2	5/8	RCPE-3	RCPEE-320	EE-320/620
	21,3				RCPEE-321,3	EE-321,3/621,3
	22				RCPEE-322	EE-322/622
	23				RCPEE-323	EE-323/623
	25				RCPEE-325	EE-325/625
	26,9	RCPEE-326,9	EE-326,9/626,9			
	28	RCPEE-328	EE-328/628			
	30	RCPEE-330	EE-330/630			
	32	RCPEE-332	EE-332/632			
	4	32	G 1 1/4		1 1/2	RCPE-4
33,7		RCPEE-433,7		EE-433,7		
35		RCPEE-435		EE-435		
38		RCPEE-438		EE-438		
40		RCPEE-440		EE-440		
42		RCPEE-442		EE-442		
45,5		RCPEE-445,5		EE-445,5		
48		RCPEE-448		EE-448		
51		RCPEE-451		EE-451		
53,4		RCPEE-453,4		EE-453,4		
56,4	RCPEE-456,4	EE-456,4				
60,3	RCPEE-460,3	EE-460,3				

Attention! For tube clamps with noise protection insert, the relation of diameter and size is not identical with the profile design or smooth design.

// HEAVY SERIES



NOISE PROTECTION INSERT

Order codes for clamp-halves:
 Polypropylene **RCPE**
 Polyamide 6 **RCNE**

Replace standard abbreviation RCPE or RCNE in column "Series C" as required.

Order codes for noise protection insert: **EE-***

complete with clamp size and outside tube diameter, TPE 73° Shore

SIZE SERIES C	O.D. mm	Tube NB	Inch O.D.	SERIES C		Noise protection insert
				Tube clamp suitable for insert	Tube clamp with noise protection insert	
5	57	G 2	2 1/4	RCPE-5	RCPEE-557	EE-557
	60,3		2 1/2		RCPEE-560,3	EE-560,3
	63,5		2 3/4		RCPEE-563,5	EE-563,5
	65		3		RCPEE-565	EE-565
	70	G 2 1/2			RCPEE-570	EE-570
	73				RCPEE-573	EE-573
	76,1			RCPEE-576,1	EE-576,1	
6	80	G 3	3 1/2	RCPE-6	RCPEE-680	EE-680
	82,5				RCPEE-682,5	EE-682,5
	88,9	G 3 1/2			RCPEE-688,9	EE-688,9
	100				RCPEE-6100	EE-6100
	101,6			RCPEE-6101,6	EE-6101,6	
7	101,6	G 3 1/2	4	RCPE-7	RCPEE-7101,6	EE-7101,6
	108	G 4	4 1/2		RCPEE-7108	EE-7108
	114,3				RCPEE-7114,3	EE-7114,3
	127				RCPEE-7127	EE-7127
	133				RCPEE-7133	EE-7133

Attention! For tube clamps with noise protection insert, the relation of diameter and size is not identical with the profile design or smooth design.

// LIGHT CONSTRUCTIONS SERIES



NOISE PROTECTION INSERT

Order codes for clamp-halves:

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

Clamp size A6 from Ø 18:
Polypropylene **RAPAE**
Polyamide 6 **RANAE**

Replace standard abbreviation RAPE or RAPEA in column "Series A" as required.

Order codes for noise protection insert: EFA-*

complete with clamp size and outside tube diameter, TPE 55° Shore

SIZE SERIES A	O.D. mm	Tube NB	Inch O.D.	SERIES A		Noise protection insert
				Tube clamp suitable for insert	Tube clamp with noise protection insert	
4	10	G 1/8		RAPE-4	RAPEA-410	EFA-410/210
5	10 12 15	G 3	3 1/2	RAPE-5	RAPEA-510 RAPEA-512 RAPEA-515	EFA-510 EFA-512 EFA-515
6	10 12 15 18 20	G 3 1/2	4	RAPE-6	RAPEA-610 RAPEA-612 RAPEA-615 RAPEA-618 RAPEA-620	EFA-610/310 EFA-612/312 EFA-615/315 EFA-618/318 EFA-620/320
6	18 20 22 25 28 30	G 3 1/2 G4	4 4 1/2 5	RAPAE-6	RAPEA-618 RAPEA-620 RAPEA-622 RAPEA-625 RAPEA-628 RAPEA-630	EFA-618 EFA-620 EFA-622 EFA-625 EFA-628 EFA-630

Attention! For tube clamps with noise protection insert, the relation of diameter and size is not identical with the profile design or smooth design.

// HEAVY SERIES



NOISE PROTECTION INSERT

Order codes for clamp-halves:
 Polypropylene **RCPE**
 Polyamide 6 **RCNE**

Replace standard abbreviation RCPE or RCPEA in column "Series C" as required.

Order codes for noise protection insert: **EFA-***

complete with clamp size and outside tube diameter, TPE 55° Shore

SIZE SERIES C	O.D. mm	Tube NB	Inch O.D.	SERIES C		Noise protection insert
				Tube clamp suitable for insert	Tube clamp with noise protection insert	
2	10	G 1/8		RCPE-2	RCPEA-210	EFA-410/210
3	10 12 15 18 20			RCPE-3	RCPEA-310 RCPEA-312 RCPEA-315 RCPEA-318 RCPEA-320	EFA-610/310 EFA-612/312 EFA-615/315 EFA-618/318 EFA-620/320
4	22 25 28 30 35			RCPE-4	RCPEA-422 RCPEA-425 RCPEA-428 RCPEA-430 RCPEA-435	EFA-422 EFA-425 EFA-428 EFA-430 EFA-435
5	35 38 42 48,3 60,3	G 1 1/4	1 1/2 2 1/2	RCPE-5	RCPEA-535 RCPEA-538 RCPEA-542 RCPEA-548,3 RCPEA-560,3	EFA-535 EFA-538 EFA-542 EFA-548,3 EFA-560,3
6	76,1 88,9	G 2 1/2 G3		RCPE-6	RCPEA-676,1 RCPEA-688,9	EFA-676,1 EFA-688,9
7	114,3	G4		RCPE-7	RCPEA-7114,3	EFA-7114,3

Attention! For tube clamps with noise protection insert, the relation of diameter and size is not identical with the profile design or smooth design.

THE FULLY FLEXIBLE TUBE CLAMP

OPTIMUM SOUND INSULATION AND VIBRATION DAMPENING

THE PRIMARY MATERIAL

The fully flexible tube clamps are made out of thermoplastic caoutchouc.

THE ADVANTAGES

Decisive improvements regarding noise insulation and vibration behaviour. Easy securing also of sensitive tube and pipe installations. The essential qualities of this material are appreciably higher than those of comparable vulcanized rubber products.

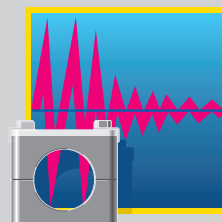
THE CONSTRUCTIONS DETAILS

The internal surface are smooth or grooved. A useful screw safety-device guarantees perfect connections also for the solid rubber construction - therefore making a self-acting loosening impossible! The welding plates, covers and screws are also available in stainless steel.

**Please order available measurements
at the standard range DIN 3015.**



Low noise and
vibration level



Weather-proof and
brittle-resistant



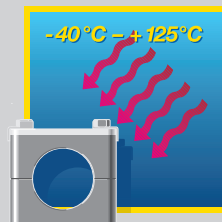
Shape stability
with high elasticity



Resistant against
many chemicals

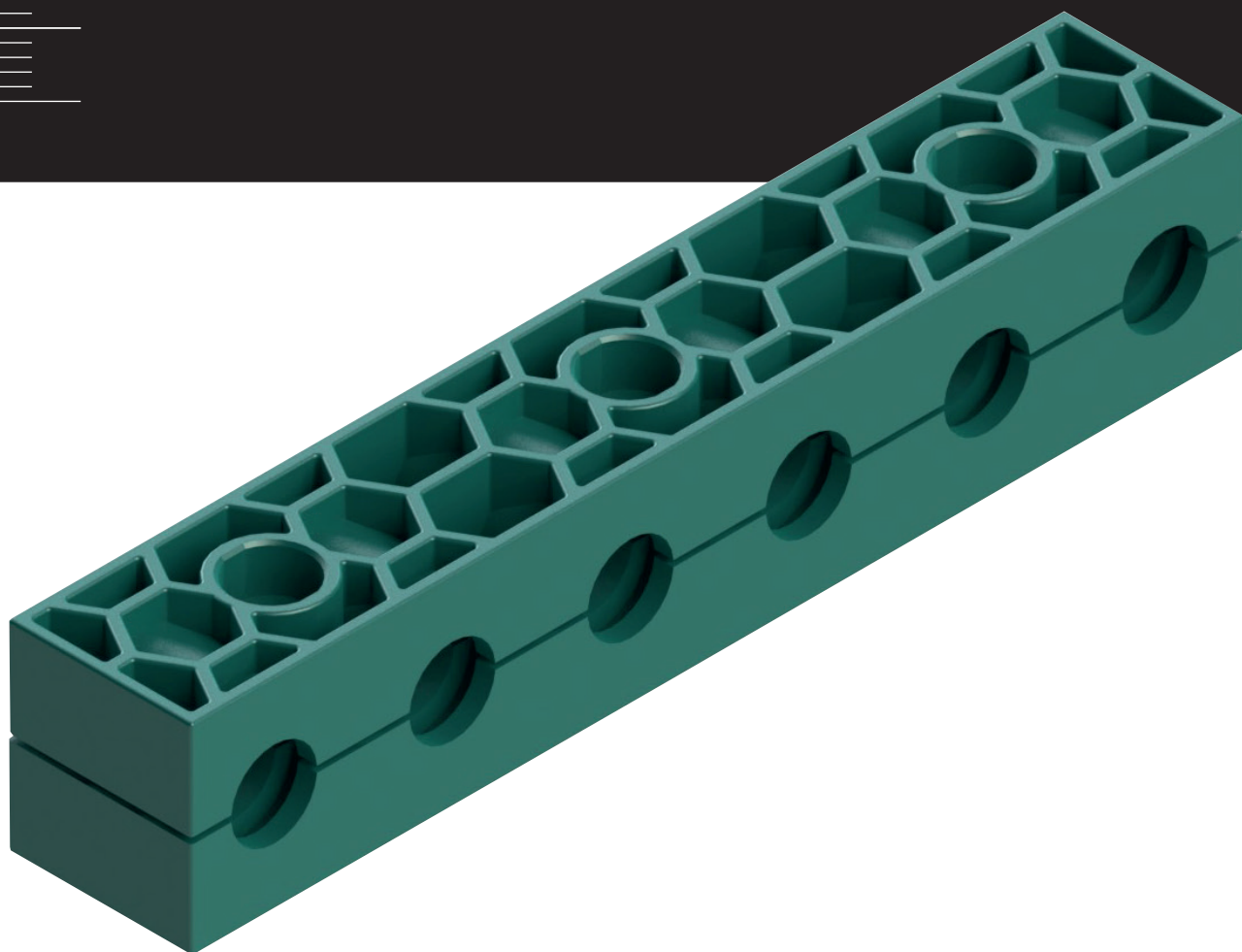


Wide temperature
deployment area



// 02

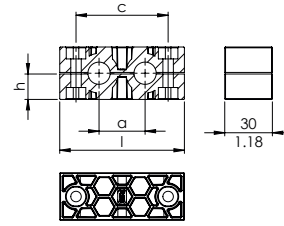
MULTICLAMPS



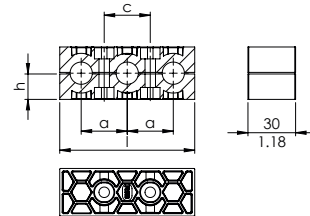
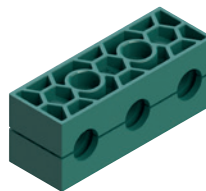
Order codes for clamp-halves:

Polypropylene **RAPRM**
 inside smooth **RAPGM²⁾**
 Polyamide 6 **RANRM**
 inside smooth **RANGM²⁾**
 Rubber **RAVGM^{2) 3)}**

Replace standard abbreviation RAPRM in column "clamp-halves" as required.



SIZE	O.D. mm d ₁	Tube NB	Inch O.D.	Number of tubes	RAPRM 1 part / 2 clamp-halves	RAPRM-... 2 clamp-halves				Fastening screws B
						a	c	h	l	
1	6	G 1/8	1/4	2	RAPRM-1xxxB2	20	40	13,5	60,5	2
	0,79					1,57	0,53	2,38		
2	10	G 3/8	1/2	2	RAPRM-2xxxB2	29	58	16,5	78,5	2
	12,7		1,14			2,28	0,65	3,09		
3	14	G 1/2	5/8	2	RAPRM-3xxxB2	36	72	18,5	92,5	2
	15		1,42			2,83	0,73	3,64		
	16		3/8							
	17,2		3/4							
	18		1							
	19									
	20									
	21,3									
	22									
	23									
	25									
	25,4									



SIZE	O.D. mm d ₁	Tube NB	Inch O.D.	Number of tubes	RAPRM 1 part / 2 clamp-halves	RAPRM-... 2 clamp-halves				Fastening screws B
						a	c	h	l	
1	6	G 1/8	1/4	3	RAPRM-1xxxB3	20	20	13,5	56	2
	0,79					0,79	0,53	2,20		
2	10	G 3/8	1/2	3	RAPRM-2xxxB3	29	29	16,5	85	2
	12,7		1,14			1,14	0,65	3,35		
3	14	G 1/2	5/8	3	RAPRM-3xxxB3	36	36	18,5	106	2
	15		1,42			1,42	0,73	4,17		
	16		3/8							
	17,2		3/4							
	18		1							
	19									
	20									
	21,3									
	22									
	23									
	25									
	25,4									

²⁾without prestress

³⁾When assembling solid rubber tube clamps, cover plates, hexagon head screws and locking washers must be used

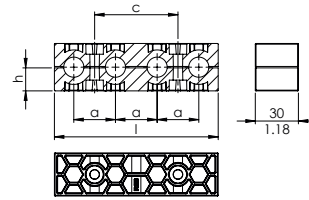
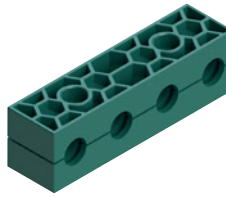
dimensions mm
Inch

MULTICLAMP SERIES A | COMPONENTS

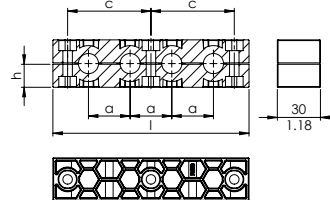
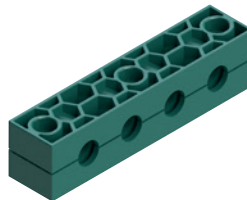
Order codes for clamp-halves:

Polypropylene **RAPRM**
 inside smooth **RAPGM**²⁾
 Polyamide 6 **RANRM**
 inside smooth **RANGM**²⁾
 Rubber **RAVGM**^{2) 3)}

Replace standard abbreviation RAPRM in column "clamp-halves" as required.



SIZE	O.D. mm d ₁	Tube NB	Inch O.D.	Number of tubes	RAPRM 1 part / 2 clamp-halves	RAPRM-... 2 clamp-halves				Fastening screws B
						a	c	h	l	
1	6 6,4 8 9,5 10 12	G 1/8	1/4 5/16 3/8	4	RAPRM-1xxxB4	20	40	13,5	76	2
						0.79	1.57	0.53	2.99	
2	10 12 12,7 13,5 14 15 16 17,2 18	G 3/8	1/2 5/8	4	RAPRM-2xxxB4	29	58	16,5	114	2
						1.14	2.28	0.65	4.49	
3	15 16 17,2 18 19 20 21,3 22 23 25 25,4	G 1/2	3/8 3/4 1	4	RAPRM-3xxxB4	36	72	18,5	142	2
						1.42	2.83	0.73	5.59	



SIZE	O.D. mm d ₁	Tube NB	Inch O.D.	Number of tubes	RAPRM 1 part / 2 clamp-halves	RAPRM-... 2 clamp-halves				Fastening screws C
						a	c	h	l	
1	6 6,4 8 9,5 10 12	G 1/8	1/4 5/16 3/8	4	RAPRM-1xxxC4	20	40	13,5	100,5	3
						0.79	1.57	0.53	3.96	
2	10 12 12,7 13,5 14 15 16 17,2 18	G 3/8	1/2 5/8	4	RAPRM-2xxxC4	29	58	16,5	136,5	3
						1.14	2.28	0.65	5.37	
3	15 16 17,2 18 19 20 21,3 22 23 25 25,4	G 1/2	3/8 3/4 1	4	RAPRM-3xxxC4	36	72	18,5	164,5	3
						1.42	2.83	0.73	6.48	

²⁾without prestress

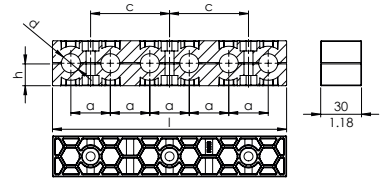
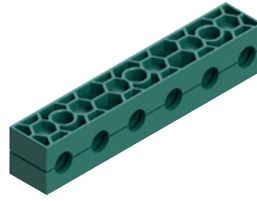
³⁾When assembling solid rubber tube clamps, cover plates, hexagon head screws and locking washers must be used

dimensions mm
Inch

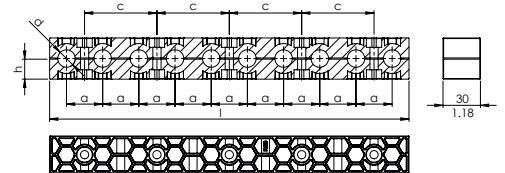
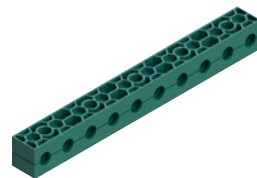
Order codes for clamp-halves:

- Polypropylene **RAPRM**
- inside smooth **RAPGM²⁾**
- Polyamide 6 **RANRM**
- inside smooth **RANGM²⁾**
- Rubber **RAVGM^{2) 3)}**

Replace standard abbreviation RAPRM in column "clamp-halves" as required.



SIZE	O.D. mm d ₁	Tube NB	Inch O.D.	Number of tubes	RAPRM 1 part / 2 clamp-halves	RAPRM-... 2 clamp-halves				Fastening screws C
						a	c	h	l	
1	6	G 1/8	1/4	6	RAPRM-1xxxC6	20	40	13,5	116	3
	0.79					1.57	0.53	4.57		
2	10	G 3/8	1/2	6	RAPRM-2xxxC6	29	58	16,5	172	3
	1.14					2.28	0.65	6.77		
3	15	G 1/2	3/8	6	RAPRM-3xxxC6	36	72	18,5	214	3
	1.42					2.83	0.73	8.43		
	16		3/4							
	17,2		3/4							
	18		1							
	19									
	20									
	21,3									
	22									
	23									
	25									
	25,4									

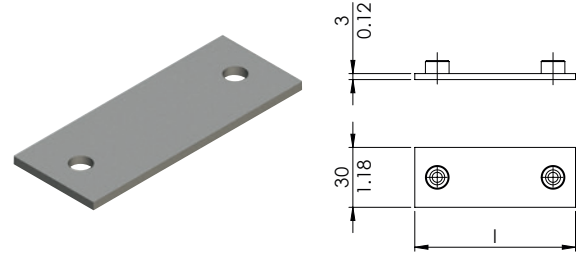
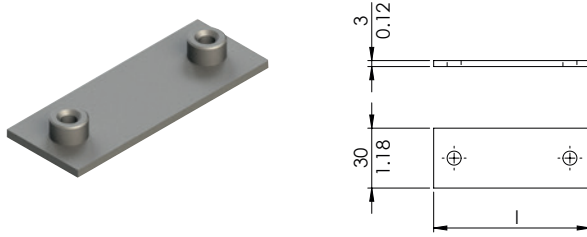


SIZE	O.D. mm d ₁	Tube NB	Inch O.D.	Number of tubes	RAPRM 1 part / 2 clamp-halves	RAPRM-... 2 clamp-halves				Fastening screws E
						a	c	h	l	
1	6	G 1/8	1/4	10	RAPRM-1xxxE10	20	40	13,5	196	5
	0.79					1.57	0.53	7.72		
2	10	G 3/8	1/2	10	RAPRM-2xxxE10	29	58	16,5	288	5
	1.14					2.28	0.65	11.34		
3	15	G 1/2	3/8	10	RAPRM-3xxxE10	36	72	18,5	358	5
	1.42					2.83	0.73	14.09		
	16		3/4							
	17,2		3/4							
	18		1							
	19									
	20									
	21,3									
	22									
	23									
	25									
	25,4									

²⁾without prestress

³⁾When assembling solid rubber tube clamps, cover plates, hexagon head screws and locking washers must be used

dimensions $\frac{\text{mm}}{\text{Inch}}$



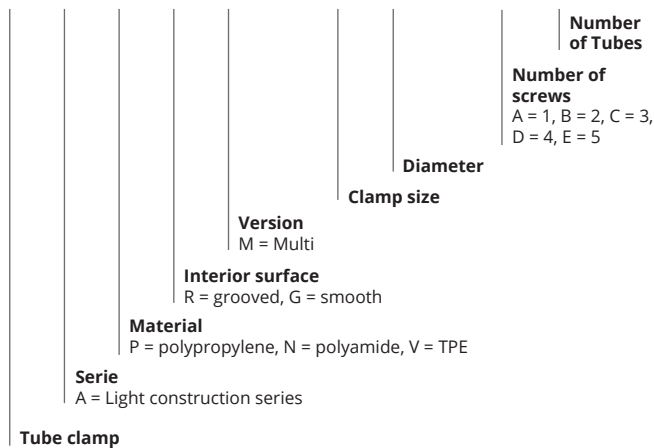
SIZE	APM-A Weld plate						DPM-A Cover plate					
	B2	B3	B4	C4	C6	E10	B2	B3	B4	C4	C6	E10
1	62,5	58	78	102,5	118	198	60,5	56	76	100,5	116	196
	2.46	2.28	3.07	4.04	4.65	7.80	2.38	2.20	2.99	3.96	4.57	7.72
2	80,5	87	116	138,5	174	290	78,5	85	114	136,5	172	288
	3.17	3.43	4.57	5.45	6.85	11.42	3.09	3.35	4.49	5.37	6.77	11.34
3	94,5	108	144	166,5	216	360	92,5	106	142	164,5	214	358
	3.72	4.25	5.67	6.56	8.50	11.17	3.64	4.17	5.59	6.48	8.43	14.09

dimensions $\frac{\text{mm}}{\text{Inch}}$

// EXAMPLE OF ORDER

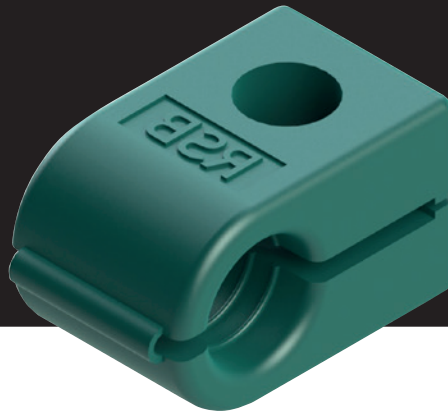
RAPRM-1xx/B2
 RAPRM-106/8/B2
 RAPRM-315/21,3/25,4/B3

R A P R M - 1 06 / B 4



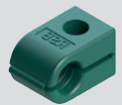
// 06

TUBE CLAMPS SERIES O

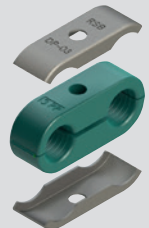


- quick assembly
- space-saving
- Cover plate provides for stable fixing
- secure clamping of tubes due to pre-clamping
- different tube diameters combinable
- Fixing with screws
- particularly suitable for cables, hoses, gas and oil pipes, lubricating lines
- Metal parts also available in stainless steel

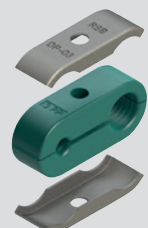
Tube clamp series O
space-saving and flexible
from Ø 6 mm to 22 mm



Double-tube clamp series O
with same diameters
from Ø 6 mm to 22 mm



Double-tube clamp series O
with different diameters from
Ø 6 mm to 22 mm



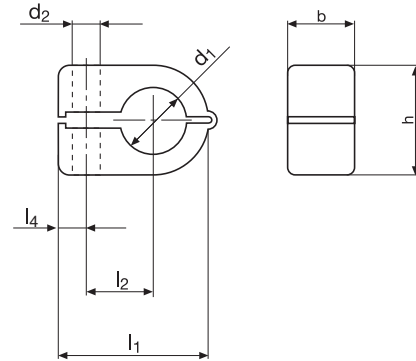
// TUBE CLAMP SERIES O

Order codes for clamp-halves:

Polypropylene **ROP-***
 Polyamide **RON-***

* supplement with size and tube Ø mm (e.g. ROP-106)

Packing standard:
 100 pieces



NOISE PROTECTION INSERT

Areas of application:

- Pneumatics
- Automotive Technology
- Machine tool industry
- Lubrication
- Naval Technology
- suitable for cables and hoses

SIZE	Tube Ø d ₁			l ₁	l ₂	l ₄	b	h	d ₂
	mm O.D. mm	Tube NB	Inch O.D.						
1	6		1/4	23	9			13,5	
	6,4			0,91	0,35			0,53	
2	8	G 1/8	3/8	27	11	7		18,5	
	9,5		1/2	1,06	0,43			0,73	
3	10	G 1/8	1/2	34	15	0,28	14,5	23,5	6,5
	12							G 1/4	
4	14	G 3/8	5/8	40	19	6		30,5	
	15							G 1/2	
	16								
	17,2								
	18								
	19								
	20								
	21,3								
	22								

dimensions $\frac{\text{mm}}{\text{Inch}}$

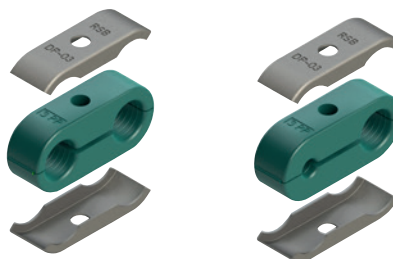
// DOUBLE-TUBE CLAMP SERIES O

Order codes for clamp-halves:

Polypropylene **ROPD-***
 Polyamide **ROND-***

* supplement with size and tube Ø mm (e.g. ROPD-106), different diameters on request

Packing standard: 100 pieces



COVER PLATE

Order codes: DP-O*

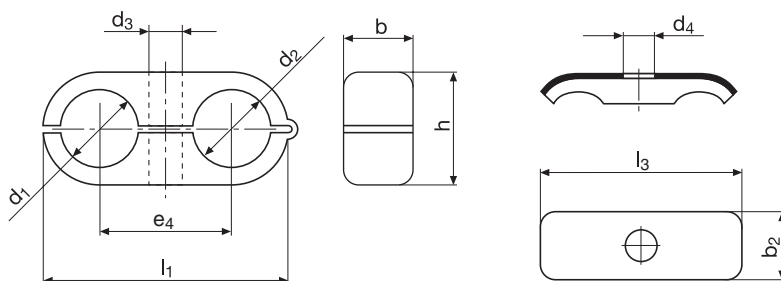
* supplement with size

Material: Galvanized steel
 (Stainless steel upon request)

NOISE PROTECTION INSERT

Areas of application:

- Pneumatics
- Automotive Technology
- Machine tool industry
- Lubrication
- Naval Technology
- suitable for cables and hoses



SIZE	Tube Ø d ₁ + d ₂			l ₁	e ₄	b	h	d ₃	l ₃	b ₂	d ₄					
	O.D. mm	Tube NB	Inch													
1	6		1/4	23	9		13,5		29							
	6,4			0.91	0.35		0.53		0.53							
2	8	G 1/8	3/8	27	11		18,5		40	29	1.14					
	9,5				1.06		0.43		0.73			0.73				
	10	G 1/8	1/2	34	15	14,5	23,5	6,5	50,5		6,5					
	12												1.34	0.59	0.57	0.93
12,7	G 1/4	5/8														
13,5																
4	14	G 3/8	5/8	40	19		30,5		63	16,5	0.65					
	15															
	16															
	17,2	G 1/2	3/4	1.57	0.75		1.20		1.20							
	18															
	19															
20																
21,3																
22																

dimensions mm
Inch

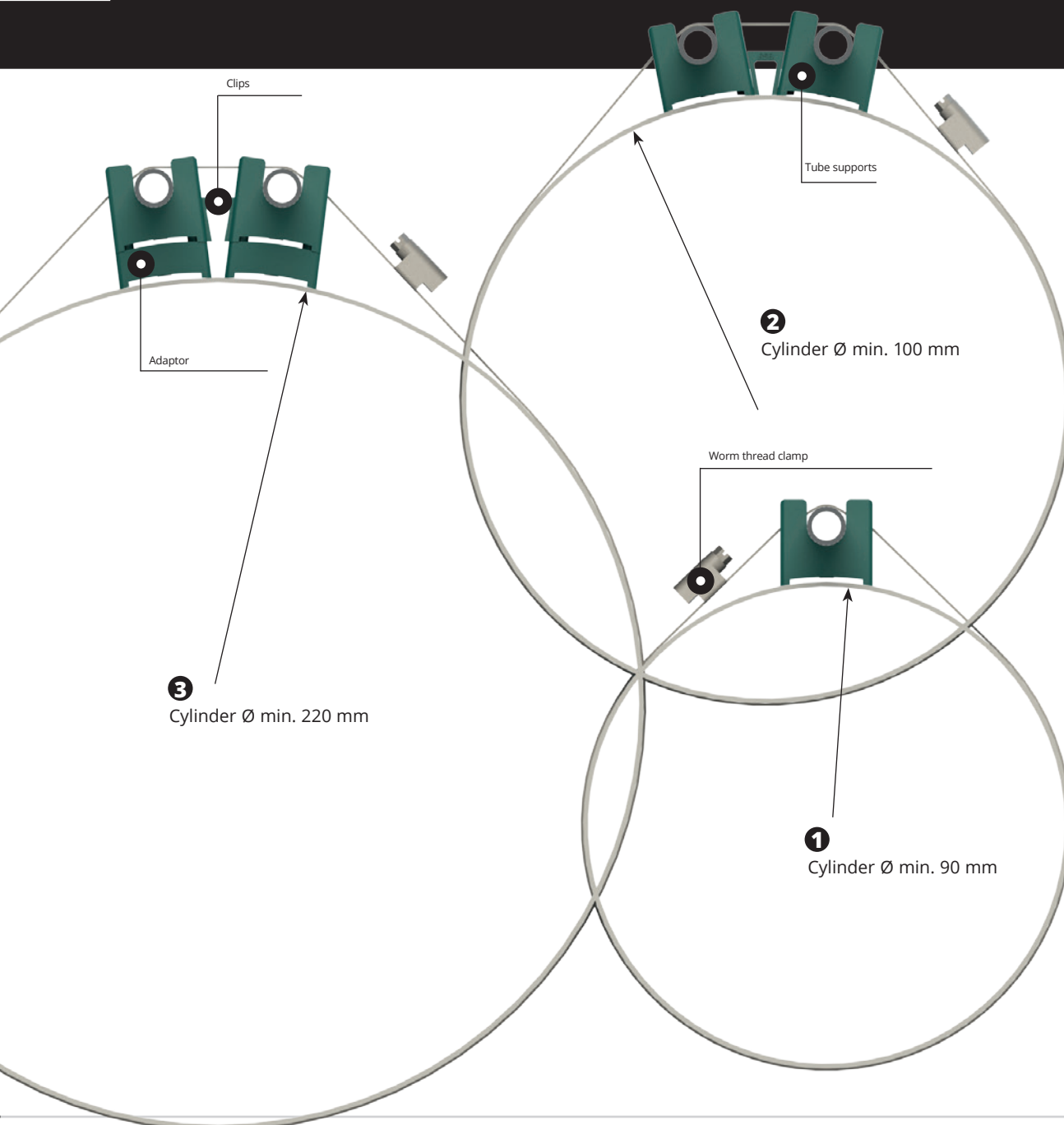
All metal parts available in stainless steel.



// 06

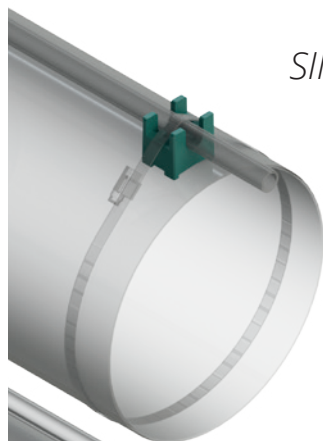
TUBE FASTENING ON A CYLINDER

Tube support - Adaptor - Clip - Worm thread clamps



ASSEMBLY: THE "CLIP + READY"-SYSTEM!

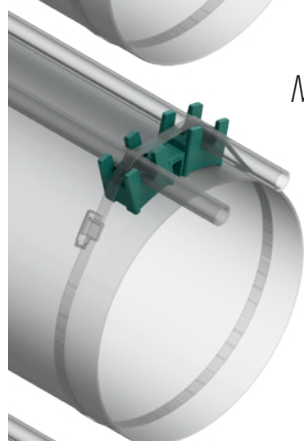
1.



SINGLE ASSEMBLY

Tube support without adaptor

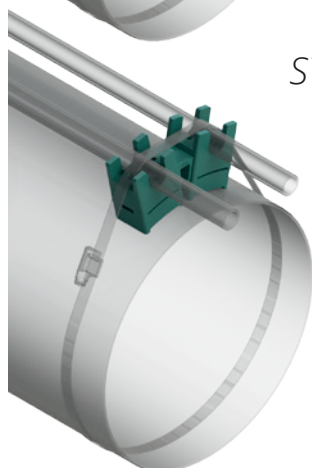
2.



MULTIPLE ASSEMBLY

Tube support with clip

3.



STACKING ASSEMBLY

Tube support with adaptor

THE COMPLETE SYSTEM CONSISTS OF THE FOLLOWING INDIVIDUAL COMPONENTS:

Tube support, adaptor, clip and worm thread clamps. Practical solutions for many different assembly situations can be found by either using an individual component or by combining all the components.

For example:

- Assembly of tubes or hoses on hydraulic cylinder
- different tube or hose diameters
- different distances between tubes and cylinder
- the assembly of several tube supports for different tube diameters

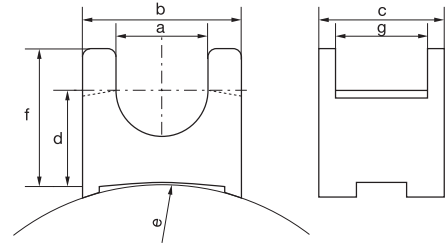
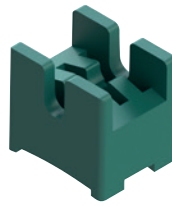
	FIGURE 1.	FIGURE 2.	FIGURE 3.
Assembly hydr. cylinder	Single-part assembly Tube support without adaptor	Assembly several tube supports with clip without adaptor	Assembly several tube supports with clip adaptors
Cylinder Ø	min. Ø 90 mm	min. Ø 100 mm	min. Ø 220 mm
	min. Ø 3.54 in	min. Ø 3.94 in	min. Ø 8.66 in

// TUBE SUPPORT

Order codes:
Polypropylene **RLP**

With the RLP tube support, tubes or hoses can be fitted on hydraulic cylinders by using a worm thread clamp.

See figure 1



SIZE Tube Ø mm	Tube NB	Inch O.D.	Order Codes	a	b	c	d	e	f	g
8		5/16	RLP-8	8						
				0.31						
10	G 1/8		RLP-10	10						
				0.39						
12			RLP-12	12						
				0.47						
15			RLP-15	15						
				0.59						
16		5/8	RLP-16	16	38	30	21	R 110	32	22
				0.63	1.50	1.18	0.83	R 4.33	1.26	0.87
18			RLP-18	18						
				0.71						
20			RLP-20	20						
				0.79						
22			RLP-22	22						
				0.87						
25			RLP-25	25						
				0.98						

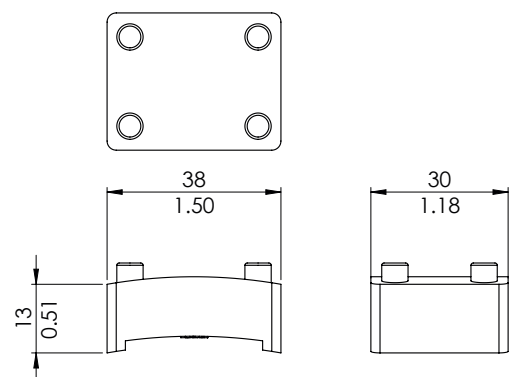
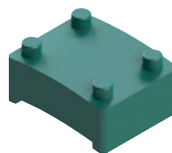
dimensions $\frac{\text{mm}}{\text{Inch}}$

// ADAPTOR

Order codes:
Polypropylene **ADP**

The ADP adaptor is clipped beneath the tube support in order to get a bigger distance between the tube and the cylinder.

See figure 3

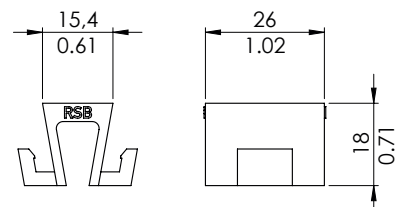
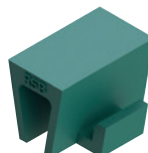


// CLIPS

Order codes:
Polypropylene **KLP**

KLP clips allow the assembly of tube supports. The tube supports are clipped together with the clip.

See figures 2 and 3



// WORM THREAD CLAMPS

Order codes: **SGS**

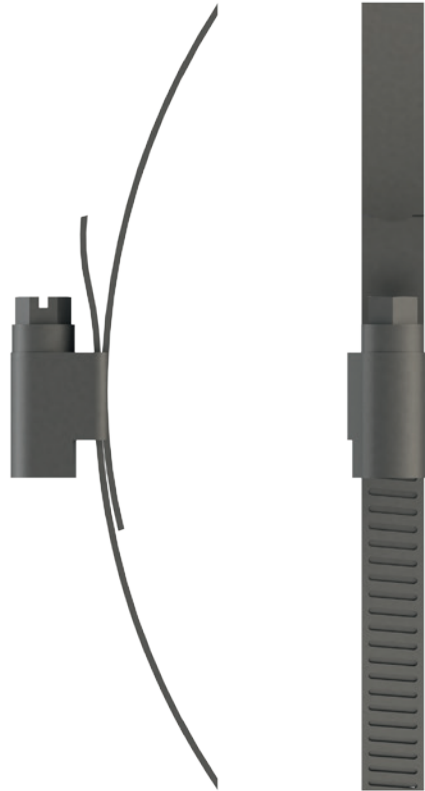
* please add. to order code:

W1: Steel zinc plated

W5: Stainless steel

**Dimensions to use 1 pipe on 1 support!

Use clamps of the correct size when assembling more than one tube on the cylinder or/and when using the adaptor!



WORM THREAD CLAMPS DIN 3017			
Strip width	Order Codes	Fits cylinders**	
12	SGS-100-120/W*	90 - 110	3.54 - 4.33
	SGS-110-130/W*	100 - 120	3.94 - 4.72
	SGS-120-140/W*	110 - 130	4.33 - 5.12
	SGS-130-150/W*	120 - 140	4.72 - 5.51
	SGS-140-160/W*	130 - 150	5.12 - 5.91
	SGS-150-170/W*	140 - 160	5.51 - 6.30
	SGS-160-180/W*	150 - 170	5.91 - 6.69
	SGS-170-190/W*	160 - 180	6.30 - 7.09
0.47	SGS-180-200/W*	170 - 190	6.69 - 7.48
	SGS-190-210/W*	180 - 200	7.09 - 7.87
	SGS-200-220/W*	190 - 210	7.48 - 8.27
	SGS-210-230/W*	200 - 220	7.87 - 8.66
	SGS-220-240/W*	210 - 230	8.27 - 9.06
	SGS-230-250/W*	220 - 240	8.66 - 9.45
	SGS-240-260/W*	230 - 250	9.06 - 9.84
	SGS-250-270/W*	240 - 260	9.45 - 10.24
	SGS-260-280/W*	250 - 270	9.84 - 10.63

dimensions $\frac{\text{mm}}{\text{Inch}}$



// 07

HYDRAULIC STEEL CLAMP



*SPACE-SAVING SYSTEM
CAN BE WELDED AFTERWARDS
ALLOWS VIBRATION-FREE LAYING AND MOUNTING OF TUBES*

DESIGN

Top and bottom clamp halves are identical. The support-block is welded in upend or flat position.

FIELD OF APPLICATION

The clamp is used for the whole mobile hydraulic. The small dimension of the clamp allows hydraulic tubes and hoses to be mounted afterwards.



**DO UP YOUR CONSTRUCTION MACHINES WITH HSRS
HYDRAULIC STEEL CLAMP HSRS**

**WELD-ON POSSIBILITY LATER ON VIBRATION-FREE
INSTALLATION OF TUBES AND HOSES**



The robust construction of the clamp provides for impact and vibration reduction. The low height of this clamp type allows hydraulic lines to be installed at any time later on – e.g. for the installation of additional units on construction machines.

The noise protection inlay provides for an improved noise reduction and guarantees the safe fastening of sensitive tubes and host lines.



// HYDRAULIC STEEL CLAMP

Order codes:

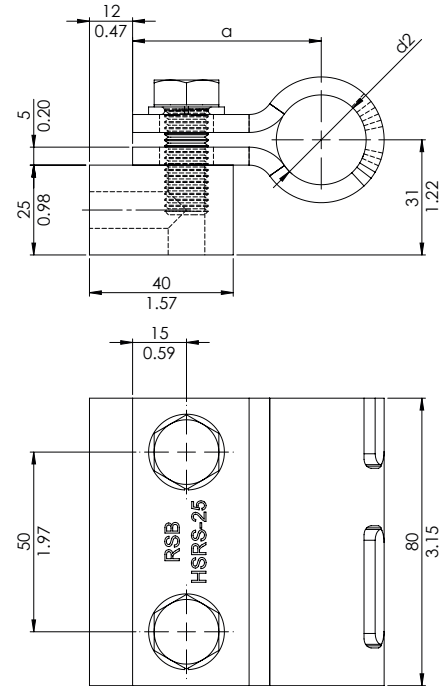
W1: Steel zinc plated **HSRS-***

* please add. $\varnothing d_2$

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

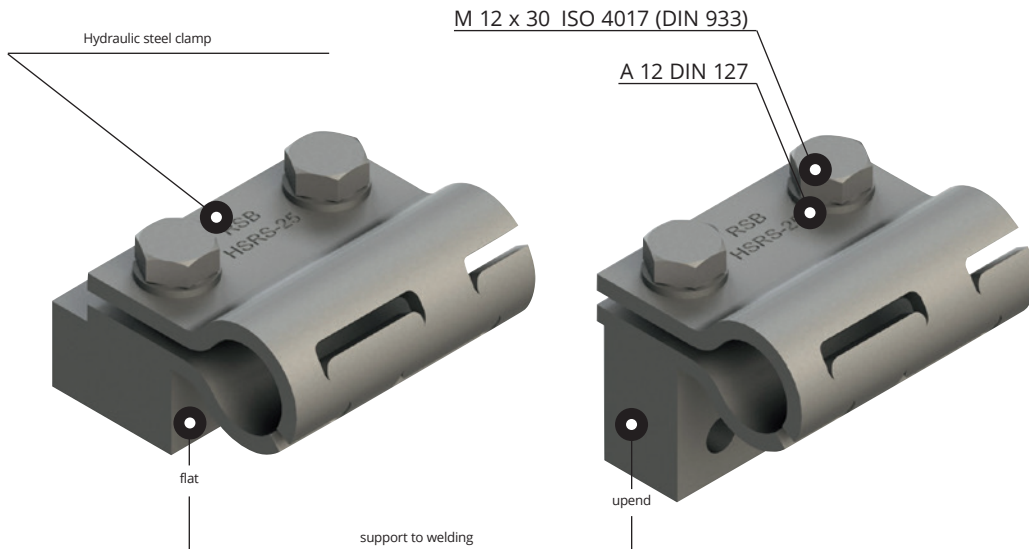
The support-block is welded to the machine body or another component either in upend or flat position. The tube-clamp is screwed on.

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



Order codes	Tube NB	Inch O.D.	Measurement	
			$\varnothing d_2$	a
HSRS-25		1	25	52,5
				2.07
HSRS-30			30	55
				2.17
HSRS-35			35	57,5
				2.26
HSRS-38		1 1/2	38	59
				2.32
HSRS-42	1 1/4		42	61
				2.40
HSRS-48	1 1/2		48	64
				2.52
HSRS-50			50	65
				2.56
HSRS-60 ¹⁾	G2		60	70
				2.76

dimensions $\frac{\text{mm}}{\text{Inch}}$



¹⁾ The support can only be used in upright position

NOISE PROTECTION INSERT

Order codes: EE-*

* complete with nominal clamp size and outside tube diameter

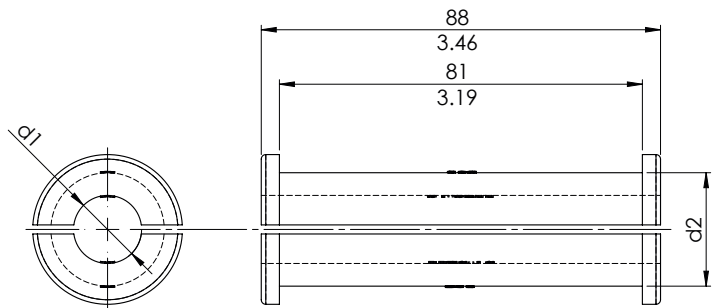
Hydraulik steel clamp HSRS also available with noise protection insert.

The advantages:

- improved quality as regards noise and vibration reduction
- safe fastening method even for very sensitive tube and hose lines
- only one clamp for different tube diameters

Material:

- TPE 64° Shore
- high oil and weathering resistance
- Temperature stability between -40°C and +120°C



Order codes	Nominal size Ø d ₂	Tube Ø mm d ₁	Tube NB	Inch O.D.
EE 25-12	HSRS-25	12		
EE 25-15		15		
EE 30-20	HSRS-30	20		
EE 35-25	HSRS-35	25		1
EE 42-30	HSRS-42	30		
EE 50-35	HSRS-50	35		
EE 50-38		38		1½
EE 50-42		42	G 1¼	
EE 60-47	HSRS-60	47		
EE 60-50		50		



// 07

U-BOLT WITH TUBE SADDLE

AREA OF APPLICATION

Especially suitable for securing tubes with heat expansion. The tubes can be braced firmly to the bow or, alternatively, slide along grooves.

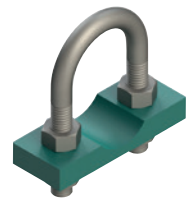
CONSTRUCTION

U-bolts are available in two designs:

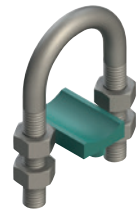
RUBD DIN 3570 with 2 nuts and **RUBL** U-bolts with 4 nuts to be used with tube saddle **KUPK** or **KUPL**. U-bolts are available for tube diameters from 17 to 762 mm.

The tube saddles are made of polypropylene and poly-amide and are produced in a short or long version.

U-bolt with
tube saddle long



U-bolt with
tube saddle short



U-bolt



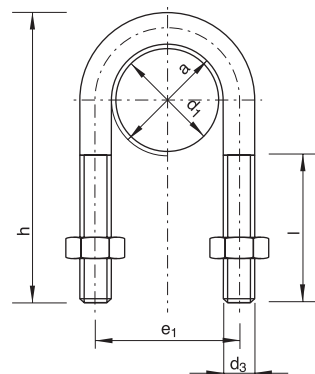
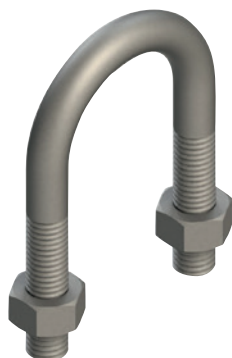
U-BOLT WITH 2 NUTS DIN 3570 | COMPONENTS

Order codes:

Steel
Steel zinc plated
Stainless steel 1.4571

RUBD-*
RUBD-*/Zn
RUBD-*/1.4571

* complete with size and measure a



SIZE	for tube		RUBD Order Codes	a	l	d ₃	e ₁	h				
	NW	d ₁ (mm inch)										
15	3/8"	17,2 0.68	RUBD-15/24	24	40	M 10	34	65				
	1/2"	21,3 0.84		0.94	1.57		1.34	2.56				
20	3/4"	25 0.98	RUBD-20/30	30	40		40	70				
		26,9 1.06		1.18			1.57	2.76				
25	1"	30 1.18	RUBD-25/38	38	1.57		48	76				
		33,7 1.33		1.50			1.89	2.99				
32	1 1/4"	38 1.50	RUBD-32/46	46	50		56	86				
		42,4 1.67		1.81			2.20	3.39				
40	1 1/2"	44,5 1.75	RUBD-40/52	52			1.97	62	92			
		48,3 1.90		2.05				2.44	3.62			
50	2"	57 2.24	RUBD-50/64	64			1.97	76	109			
		60,3 2.37		2.52				2.99	4.29			
65	2 1/2"	76,1 3.00	RUBD-65/82	82		60	94	125				
				3.23			3.70	4.92				
80	3"	88,9 3.50	RUBD-80/94	94			2.36	106	138			
				3.70				4.17	5.43			
100	4"	108 4.25	RUBD-100/120	120			70	136	171			
		114,3 4.50		4.72				5.35	6.73			
125	5"	133 5.24	RUBD-125/148	148	2.36			164	191			
		139,7 5.50		5.83				6.46	7.52			
150	6"	159 6.26	RUBD-150/176	176	2.76			192	217			
		168,3 6.63		6.93				7.56	8.54			
175	7"	193,7 7.63	RUBD-175/202	202				M 16	218	249		
				7.95					8.58	9.80		
200	8"	216 8.50	RUBD-200/228	228		M 20			248	283		
		219,1 8.63		8.98					9.76	11.14		
250	10"	267 10.51	RUBD-250/282	282					M 24	302	334	
		273 10.75		11.10						11.89	13.15	
300	12"	318 12.52	RUBD-300/332	332			2.76			352	385	
		323,9 12.75		13.07						13.86	15.16	
350	14"	355,6 14.00	RUBD-350/378	378						M 24	402	435
		368 14.49		14.88							15.83	17.13
400	16"	406,4 16.00	RUBD-400/428	428	M 24						452	487
		419 16.50		16.85							17.80	19.17
500	20"	508 20.00	RUBD-500/530	530				M 24			554	589
		521 20.51		20.87							21.81	23.19

dimensions $\frac{\text{mm}}{\text{Inch}}$

U-bolts be combined with tube saddles. U-bolts and tube saddles are also available in single pieces. RUBD with KUPK or KUPL may be used as glide- or fixed point-fastening. Available: without surface treatment, galvanized and stainless steel.



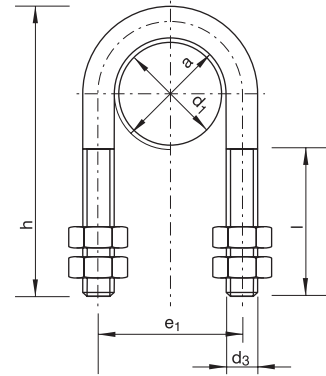
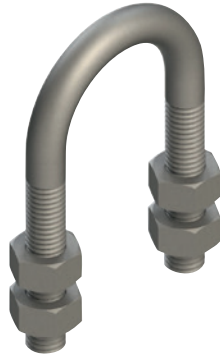
U-BOLT WITH 4 NUTS | COMPONENTS

Order codes:

Steel
Steel zinc plated
Stainless steel 1.4571

RUBL-*
RUBL-*/Zn
RUBL-*/1.4571

* complete with size and measure a



SIZE	for tube		RUBL Order Codes	a	l	d ₃	e ₁	h
	NW	d ₁ (mm inch)						
15	3/8"	17,2 0.68	RUBL-15/24	24	40	M 10	34	70
	1/2"	21,3 0.84		0.94	1.57		1.34	2.76
20	3/4"	25 0.98	RUBL-20/30	30	46		40	73,5
		26,9 1.06		1.18	1.81		1.57	2.89
25	1"	30 1.18	RUBL-25/38	38	50		48	81
		33,7 1.33		1.50			1.89	3.19
32	1 1/4"	38 1.50	RUBL-32/46	46	1.97		56	89
		42,4 1.67		1.81			2.20	3.50
40	1 1/2"	44,5 1.75	RUBL-40/52	52	55		62	100
		48,3 1.90		2.05			2.17	2.44
50	2"	57 2.24	RUBL-50/64	64	63	76	118	
		60,3 2.37		2.52		2.48	2.99	4.65
65	2 1/2"	76,1 3.00	RUBL-65/82	82	77	94	135	
				3.23		3.03	3.70	5.31
80	3"	88,9 3.50	RUBL-80/94	94	82	106	152	
				3.70		3.23	4.17	5.98
100	4"	108 4.25	RUBL-100/120	120	105	136	190	
		114,3 4.50		4.72		5.35	7.48	
125	5"	133 5.24	RUBL-125/148	148		4.13	164	217
		139,7 5.50		5.83			6.46	8.54
150	6"	159 6.26	RUBL-150/176	176		125	192	247
		168,3 6.63		6.93			7.56	9.72
175	8"	193,7 7.63	RUBL-175/202	202		4.92	218	273
		8.50		7.95			8.58	10.75
200	10"	216 8.50	RUBL-200/228	228		5.71	248	311
		219,1 8.63		8.98			9.76	12.24
250	12"	267 10.51	RUBL-250/282	282	145	302	364	
		273 10.75		11.10		11.89	14.33	
300	14"	318 12.52	RUBL-300/332	332	6.89	352	418	
		323,9 12.75		13.07		13.86	16.46	
350	16"	355,6 14.00	RUBL-350/378	378	M 20	402	475	
		368 14.49		14.88		15.83	18.70	
400	18"	406,4 16.00	RUBL-400/428	428	M 24	452	526	
		419 16.50		16.85		17.80	20.71	
500	20"	508 20.00	RUBL-500/530	530	M 30	554	627	
		521 20.51		20.87		21.81	24.69	
550	22"	558,8 22.00	RUBL-550/570	570	175	600	689	
				7.95		23.62	27.13	
600	24"	609,6 24.00	RUBL-600/622	622	6.89	652	741	
				7.95		25.67	29.17	
650	26"	660,4 26.00	RUBL-650/680	680	M 30	710	795	
				7.95		27.95	31.30	
700	28"	711,2 28.00	RUBL-700/730	730	M 30	760	845	
				7.95		29.92	33.27	
750	30"	762 30.00	RUBL-750/785	785	M 30	815	898	
				7.95		32.09	35.35	

dimensions $\frac{\text{mm}}{\text{inch}}$

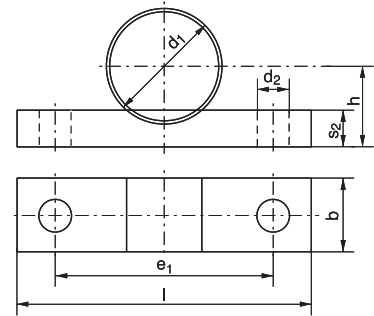
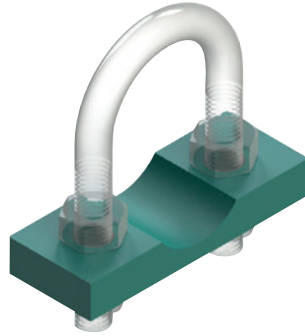
U-bolts be combined with tube saddles. U-bolts and tube saddles are also available in single pieces. RUBL with KUPK or KUPL may be used as glide- or fixed point-fastening. Available: without surface treatment, galvanized and stainless steel.



Order codes:
 Polypropylene
 Polyamide 6

KUPL-*
KUNL-*

* complete with size and diameter d_1
 Replace standard abbreviation KUPL
 in column "Order codes" as required.



SIZE	for tube		KUPL Order Codes	l	b	s ₂	h (mm inch)		e ₁	d ₂
	NW	d ₁ (mm inch)								
15	3/8"	17,2 0.68	KUPL-15/17,2	60	25	10	13,5 0.53	34	11	
	1/2"	21,3 0.84	KUPL-15/21,3	2.36	0.98	0.39	15,5 0.61	1.34		
20	3/4"	25 0.98	KUPL-20/25	75	30	12	17,5 0.69	40	0.43	
		26,9 1.06	KUPL-20/26,9	2.95			18,5 0.73	1.57		
25	1"	30 1.18	KUPL-25/30	80	1.18	0.47	20 0.79	48	11	
		33,7 1.33	KUPL-25/33,7	3.15			22 0.87	1.89		
32	1 1/4"	38 1.50	KUPL-32/38	90	35	15	24 0.94	56	0.43	
		42,4 1.67	KUPL-32/42,4	3.54			26,2 1.03	2.20		
40	1 1/2"	44,5 1.75	KUPL-40/44,5	95	1.38	0.59	27,2 1.07	62	14	
		48,3 1.90	KUPL-40/48,3	3.74			29 1.14	2.44		
50	2"	57 2.24	KUPL-50/57	110	40	20	33,5 1.32	76	0.55	
		60,3 2.37	KUPL-50/60,3	4.33			35,2 1.39	2.99		
65	2 1/2"	76,1 3.00	KUPL-65/76,1	135	1.57	0.79	43 1.69	94	18	
				5.31			54,5 4.17	4.17		
80	3"	88,9 3.50	KUPL-80/88,9	145	50	25	64 2.52	136	0.71	
				5.71			67 2.64	5.35		
100	4"	108 4.25	KUPL-100/108	190	60	30	76,5 3.01	164	0.87	
		114,3 4.50	KUPL-100/114,3	7.48			80 3.15	6.46		
125	5"	133 5.24	KUPL-125/133	220	2.36	1.18	91,5 3.60	192	22	
		139,7 5.50	KUPL-125/139,7	8.66			96 3.78	7.56		
150	6"	159 6.26	KUPL-150/159	250	70	40	109 4.29	218	1.02	
		168,3 6.63	KUPL-150/168,3	9.84			121,5 4.78	9.76		
175	8"	193,7 7.63	KUPL-175/193,7	270	1.97	0.98	145,5 5.73	302	0.87	
				10.63			148,5 5.85	11.89		
200	10"	216 8.50	KUPL-200/216	315	60	30	174 6.85	352	26	
		219,1 8.63	KUPL-200/219,1	12.40			177 6.97	13.86		
250	12"	267 10.51	KUPL-250/267	370	2.36	1.18	193 7.60	402	33	
		273 10.75	KUPL-250/273	14.57			199 7.83	15.83		
300	14"	318 12.52	KUPL-300/318	420	70	40	218 8.58	452	1.30	
		323,9 12.75	KUPL-300/323,9	16.54			224,5 8.84	17.80		
350	16"	355,6 14.00	KUPL-350/355,6	378	2.76	1.57	269 10.59	554	33	
		368 14.49	KUPL-350/368	14.88			276 10.87	21.81		
400	20"	406,4 16.00	KUPL-400/406,4	540	70	40	300 11.81	600	1.30	
		419 16.50	KUPL-400/419	21.26			325 12.80	25.67		
500	24"	508 20.00	KUPL-500/508	640	70	40	350 13.78	710	1.30	
		521 20.51	KUPL-500/521	25.20			376 14.80	29.92		
550	28"	558,8 22.00	KUPL-550/558,8	700	70	40	401 15.79	815	1.30	
				27.56				32.09		
600	30"	609,6 24.00	KUPL-600/609,6	750	70	40			1.30	
				29.53						
650	32"	660,4 26.00	KUPL-650/660,4	810	70	40			1.30	
				31.89						
700	36"	711,2 28.00	KUPL-700/711,2	870	70	40			1.30	
				34.25						
750	40"	762 30.00	KUPL-750/762	910	70	40			1.30	
				35.83						

TUBE SADDLE, SHORT | COMPONENTS

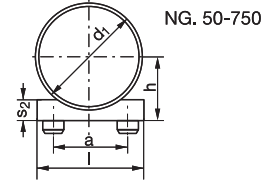
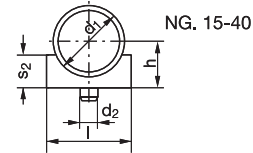
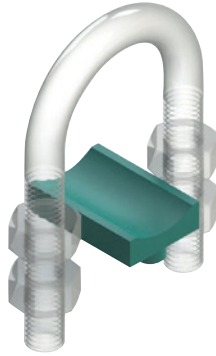
Order codes:

Polypropylene
Polyamide 6

KUPK-*
KUNK-*

* complete with size and diameter d_1

Replace standard abbreviation KUPK
in column "Order codes" as required.



SIZE	für Rohr for tube		KUPK Bestellzeichen Order Codes	l	b	s ₂	h		a	d ₂	s ₃																																										
	NW	d ₁ (mm inch)																																																			
15	3/8"	17,2 0.68	KUPK-15/17,2	24	35	8	13,6	0.54	25	8	5																																										
	1/2"	21,3 0.84	KUPK-15/21,3				15,65	0.62																																													
20	3/4"	25 0.98	KUPK-20/25				0.94	1.38				0.31	17,5	0.69	0.98	0.31	0.20																																				
		26,9 1.06	KUPK-20/26,9										18,45	0.73																																							
25	1"	30 1.18	KUPK-25/30										38	50				10	20	0.79	10	10	6																														
		33,7 1.33	KUPK-25/33,7																21,85	0.86																																	
32	1 1/4"	38 1.50	KUPK-32/38																1.50	1.97				0.39	24	0.94	0.39	0.39	0.24																								
		42,4 1.67	KUPK-32/42,4																						26,2	1.03																											
40	1 1/2"	44,5 1.75	KUPK-40/44,5																						75	70				14	27,25	1.07	40	15																			
		48,3 1.90	KUPK-40/48,3																												29,15	1.15																					
50	2"	57 2.24	KUPK-50/57																												2.95	2.76				0.55	33,5	1.32	1.57	0.59													
		60,3 2.37	KUPK-50/60,3																																		35,15	1.38															
65	2 1/2"	76,1 3.00	KUPK-65/76,1	5.51					43,05	1.69	3.54																										0.98																
		80	3"						88,9 3.50	KUPK-80/88,9																																8.66	2.95	30	52,45	2.06	5.91	30	1.18				
100	4"						108 4.25	KUPK-100/108	11.81	1.50		38			62	2.44	8.66																												220								
		114,3 4.50	KUPK-100/114,3				65,15	2.56																																													
125	5"	133 5.24	KUPK-125/133				300	11.81					1.50	74,5	2.93	220		8.66																																			
		139,7 5.50	KUPK-125/139,7											77,85	3.06																																						
150	6"	159 6.26	KUPK-150/159											300	11.81				1.50	87,5		3.44	220	8.66																													
		168,3 6.63	KUPK-150/168,3																	92,15		3.63																															
175	7"	193,7 7.63	KUPK-175/193,7																	300		11.81			1.50	104,85		4.13	220	8.66																							
		200	8"																							216 8.50		KUPK-200/216						300	11.81															1.50	116	4.57	220
219,1 8.63	KUPK-200/219,1																									117,55		4.63																									
250	10"	267 10.51	KUPK-250/267																							300		11.81			1.50	141,5				5.57			220	8.66													
		273 10.75	KUPK-250/273	144,5	5.69																																																
300	12"	318 12.52	KUPK-300/318	300	11.81	1.50					167																					6.57				220	8.66																
		323,9 12.75	KUPK-300/323,9						169,95	6.69																																											
350	14"	355,6 14.00	KUPK-350/355,6						300	11.81	1.50	185,8					7.31															220										8.66											
		368 14.49	KUPK-350/368				192	7.56																																													
400	16"	406,4 16.00	KUPK-400/406,4				300	11.81				1.50	211,2			8.31	220	8.66																																			
		419 16.50	KUPK-400/419										217,5	8.56																																							
500	20"	508 20.00	KUPK-500/508										300	11.81	1.50	262			10.31				220	8.66																													
		521 20.51	KUPK-500/521													268,5			10.57																																		
550	22"	558,8 22.00	KUPK-550/558,8													300			11.81	1.50		287,4			11.31				220	8.66																							
		600	24"																			609,6 24.00			KUPK-600/609,6									300	11.81									1.50	312,8	12.31	220	8.66					
650	26"																					660,4 26.00			KUPK-650/660,4	300		11.81			1.50								338,2	13.31	220				8.66								
		700	28"																			711,2 28.00			KUPK-700/711,2														300	11.81										1.50	363,6	14.31	220
750	30"			762 30.00	KUPK-750/762	300																11.81			1.50											389	15.31	220													8.66		



***// WE OPERATE A MEDIUM-SIZED
BUSINESS IN THE FIELD
OF PRECISION ENGINEERING,
PLASTICS PROCESSING AND LIGHTING
ENGINEERING.***

// WE ABOUT US

We operate a medium-sized business in the field of precision engineering, plastics processing and lighting engineering.

We stamp, bend, weld on state-of-the-art-machines. Our know-how in the field of chipless production makes us an efficient manufacturer in sheet metal processing. Our cutting shaping equipment allows us to realise our customers' wishes without delay. Our plastics processing's strenght lies in its flexibility.

We combine two product ranges under one roof:

- **RSB** - Tube Clamps
- **TECHMALUX®** - Lighting Technology

// THAT'S HOW TO GET TO US

Oberndorf is situated in the Neckartal, a valley conveniently situated between the Black Forest and the Swabian mountains and has an own junction to the A 81, the federal motorway between Stuttgart and the Western part of the Lake Constance region. Oberndorf is situated between cities of Rottweil and Horb.

The railway system is connected to all major cities in the surrounding region well as to Switzerland and Italy.





**FEINWERKTECHNIK
KUNSTSTOFFVERARBEITUNG
BELEUCHUNGSTECHNIK**

Wehrstrasse 15/27
D-78727 Oberndorf

Phone: +49 (0) 7423/9298-0
Fax: +49 (0) 7423/9298-55

FKB@FKB-GMBH.COM
WWW.FKB-GMBH.COM