

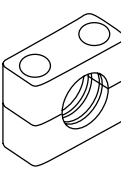
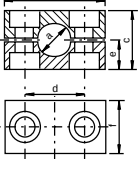
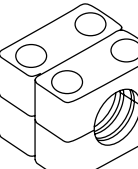
Tube Clamps Series C (Heavy Series)

DIN 3015 Part 2

Order code
for clamp-halves:

Polypropylene - RCPR
Inside smooth - RCPG¹⁾
Polyamide 6 - RCNR
Inside smooth - RCNG¹⁾
Rubber - RCVR
Aluminium - RCAR

(As required please exchange standard
abbreviation RCPR in column for "clamp halves")

									
Clamp size	mm O.D.	Tube NB	inch O.D.	1 piece 2 clamp halves RCPR	2 clamp halves RCPR-...	1 piece 4 clamp halves RCPDR	4 clamp halves RCPDR-...		
					b c d e f			b c d e f	
1	6	G 1/8	5/16	RCPR- 106	55 32 33 16 30	RCPDR- 106	55 32 33 16 60		
	8			RCPR- 108		RCPDR- 108			
	10			RCPR- 110		RCPDR- 110			
	12	G 1/4	1/2	RCPR- 112		RCPDR- 112			
	12,7			RCPR- 112,7		RCPDR- 112,7			
	13,5			RCPR- 113,5		RCPDR- 113,5			
	14	G 3/8	5/8	RCPR- 114		RCPDR- 114			
	15			RCPR- 115		RCPDR- 115			
	16			RCPR- 116		RCPDR- 116			
	17,2			RCPR- 117,2		RCPDR- 117,2			
	18			RCPR- 118		RCPDR- 118			
2	19	G 1/2	3/4	RCPR- 219	70 48 45 24 30	RCPDR- 219	70 48 45 24 60		
	20			RCPR- 220		RCPDR- 220			
	21,3			RCPR- 221,3		RCPDR- 221,3			
	22	G 3/4	1	RCPR- 222		RCPDR- 222			
	23			RCPR- 223		RCPDR- 223			
	25			RCPR- 225		RCPDR- 225			
	26,9			RCPR- 226,9		RCPDR- 226,9			
3	28	G 1	1 1/4	RCPR- 228	85 60 60 30 30	RCPDR- 228	85 60 60 30 60		
	30			RCPR- 230		RCPDR- 230			
	32			RCPR- 330		RCPDR- 330			
	33,7	G 1 1/4	1 1/2	RCPR- 332		RCPDR- 332			
	35			RCPR- 333,7		RCPDR- 333,7			
	38			RCPR- 335		RCPDR- 335			
	40			RCPR- 338		RCPDR- 338			
4	42	G 1 1/4	1 1/2	RCPR- 340	115 90 90 45 45	RCPDR- 340	115 90 90 45 90		
	42			RCPR- 342		RCPDR- 342			
	38			RCPR- 438		RCPDR- 438			
	40	G 1 1/2	2	RCPR- 440		RCPDR- 440			
	42			RCPR- 442		RCPDR- 442			
	45			RCPR- 445		RCPDR- 445			
	48,3			RCPR- 448,3		RCPDR- 448,2			
5	50	G 2	2 1/4	RCPR- 450	152 120 122 60 60	RCPDR- 450	152 120 122 60 120		
	51			RCPR- 451		RCPDR- 451			
	52			RCPR- 452		RCPDR- 452			
	55	G 3	3 1/4	RCPR- 455		RCPDR- 455			
	57			RCPR- 457		RCPDR- 457			
	60,3			RCPR- 460,3		RCPDR- 460,3			
	63			RCPR- 463		RCPDR- 463			
6	65	G 3 1/2	4	RCPR- 465	205 170 168 85 80	RCPDR- 465	205 170 168 85 160		
	70			RCPR- 470		RCPDR- 470			
	73			RCPR- 570		RCPDR- 570			
	75	G 4	4 1/4	RCPR- 573		RCPDR- 573			
	76,1			RCPR- 575		RCPDR- 575			
	80			RCPR- 576,1		RCPDR- 576,1			
	82,5			RCPR- 580		RCPDR- 580			
7	88,9	G 5	5 1/4	RCPR- 582,5	250 200 205 100 90	RCPDR- 582,5	250 200 205 100 180		
	90			RCPR- 588,9		RCPDR- 588,9			
	90			RCPR- 590		RCPDR- 590			
	97	G 5 1/2	5 1/2	RCPR- 690		RCPDR- 690			
	100			RCPR- 697		RCPDR- 697			
	101,6			RCPR- 6100		RCPDR- 6100			
	108			RCPR- 6101,6		RCPDR- 6101,6			
8	114,3	G 6	6 1/4	RCPR- 6108	320 270 265 135 120	RCPDR- 6108	320 270 265 135 240		
	127			RCPR- 6114,3		RCPDR- 6114,3			
	127			RCPR- 6127		RCPDR- 6127			
	133	G 8	8 5/8	RCPR- 7127		RCPDR- 7127			
	140			RCPR- 7133		RCPDR- 7133			
	150			RCPR- 7140		RCPDR- 7140			
	152,4			RCPR- 7150		RCPDR- 7150			
	159	G 6	6 1/2	RCPR- 7152,4		RCPDR- 7152,4			
	165,1			RCPR- 7159		RCPDR- 7159			
	168,3			RCPR- 7165,1		RCPDR- 7165,1			
	168,3	G 8	8 5/8	RCPR- 7168,3		RCPDR- 7168,3			
	168,3			RCPR- 8168,3		RCPDR- 8168,3			
	177,8			RCPR- 8177,8		RCPDR- 8177,8			
	193,7			RCPR- 8193,7		RCPDR- 8193,7			
	203	G 8	8 5/8	RCPR- 8203		RCPDR- 8203			
	219,1			RCPR- 8219,1		RCPDR- 8219,1			
	220			RCPR- 8220		RCPDR- 8220			
	220	G 8	8 5/8	RCPR- 8168,3		RCPDR- 8168,3			
	177,8			RCPR- 8177,8		RCPDR- 8177,8			
	193,7			RCPR- 8193,7		RCPDR- 8193,7			
	203			RCPR- 8203		RCPDR- 8203			

P
A
G
E

BACK TO

All metal parts available in stainless steel.

¹⁾ Only sizes 1-4.

CATALOGUE



Tube Clamps

Mechanical Properties		Polypropylene (PP)	Polyamide 6 (PA 6)	Aluminium	Rubber
Density		0,906 g/cm ³	1,12-1,15 g/cm ³	2,65 g/cm ³	0,98 g/cm ³
Flexural Deflection	DIN 53452	36 N/mm ²	130...200 N/mm ²	70 N/mm ²	-
Impact Resistance	DIN 53453	No break	No break	-	-
Compressive Strength	DIN 53454	90 N/mm ²	120 N/mm ²	HB 500...600 N/mm ²	Shore 73°
Modulus of Elasticity	DIN 53452	1500 N/mm ²	3000 N/mm ²	70.0000 N/mm ²	-
Tensile Strength without breakage	DIN 53454	25-35 N/mm ²	80-90 N/mm ²	180 N/mm ²	8,5 N/mm ²
Thermal Properties					
Temp. Resistance		-30...+90°C	-40...+120°C	300°C	-50...+120°C
Chemical Properties					
Weak Acids		limited resistant	limited resistant		resistant
Weak Alkalies		limited resistant	limited resistant		resistant
Alcohol		resistant	resistant		resistant
Petrol		limited resistant	resistant		limited resistant
Mineral Oils		limited resistant	resistant		resistant
Other Oils		resistant	resistant		resistant

P

Other materials on request.

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 possibilities 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.

BACK TO

CATALOGUE



Tube Clamps

Assembly Instruction:

Assembly on to metal welding plates

Weld metal welding plates on to a weight adjusted base.

Clip lower half of clamp on to welding plate and insert tube: then add second clamp-half and tighten with screws provided.

DO NOT weld with plastic clamp in position!

Extended welding plates can be screwed together with the foundation. Attention has to be paid to the bias. (After assembly the two clamp-halves MUST NOT come into contact with each other)!

Assembly on rail-supports

Rail-supports are available in pieces of 1m or alternatively 2m, and can be welded or screwed on with a fastening bracket. Insert rail nuts into rail and turn as far as it will go. (Ensure that spacing is right). Wedge on lower clamp-half, insert tube, add second clamp-half and tighten with screws provided.

Attention has to be paid to the bias. (After assembly the two clamp parts MUST NOT come into contact with each other)!

Construction assembly

Weld on welding plate or rail support, or screw on with a fixing bracket. Wedge on lower clamp-half, insert tube, add upper clamp-half and tighten with fixing screws. (Fixing screw to jut out.)

By applying a locking plate to the upper half of the clamp, the fixing screw is prevented from twisting. Then mount the second tube clamp in exactly the same way.

We reserve the right to effect modifications regarding form and measurement, which enhance the technical development.

P
A
G

Max. Nm screw starting torque

Series			Polypropylen	Material Polyamide	Aluminium
Standard		M6	8	10	12
Twin	Gr.1	M6	5	6	-
	Gr.2-4	M8	12	12	-
	Gr.5		8	8	-
Heavy	Gr.1	M10	12	20	30
	Gr.2		12	20	30
	Gr.3		15	25	35
	Gr.4	M 12	30	40	55
	Gr.5	M16	45	55	120
	Gr.6	M20	80	150	220
	Gr.7	M24	110	200	250
	Gr.8	M30	180	350	500

Recommended distances between clamps
of clamps of same group code*

Tube-OD - mm			Distance between clamps
6	bis	14	0,9
15	bis	22	1,2
23	bis	28	1,5
30	bis	38,1	2
40	bis	48,3	2,5
50	bis	57	3
60	bis	70	3,4
76,1	bis	88,9	3,7
101,6	bis	108	4
114,3	bis	133	4,3
139,7	bis	165,1	5
168,3	bis	219,1	5,5

* An elbow must be supported immediately with RSB-clamps in front and behind the elbow.

BACK TO

CATALOGUE

Tube Clamps



Programme:

Tube Clamps Series A (according to DIN 3015 Part 1)

Available in seven standard sizes for normal mechanical requirement.

- Outer tube diameter for the metric series 6 to 57 mm
- Outer tube diameter for the inch-size series R 1/8" to R 1/2"
- Outer tube diameter for the imperial size series 1/4" to 2 1/2"

The clamp body is available in a round/closed version.

Welding plates, rail-supports, cover plates, construction form.

Tube Clamps Series B (according to DIN 3015 Part 3)

Available as twin tube clamp in five standard sizes for normal mechanical requirement.

Outer tube diameter 6 to 42 mm.

The clamp body is available in a square/open design. Welding plates, rail-supports, cover plates, construction form.

Tube Clamps Series C (according to DIN 3015 Part 2)

Especially designed for high mechanical requirements, and available in eight standard sizes.

- Outer tube diameter 6 to 220 mm.

The clamp body is available in a square/closed design. Welding plates, rail-supports, cover plates, construction form.

Design:

According to DIN 3015:

Both upper and lower clamp-half are identical.

Webs inside the bore of the clamps provide an impact and vibration deadening effect, and absorb force toward the direction of the tube axis.

Clamp material:

Polypropylene	- 30°C up to +90°C	colour dark green
Polyamide 6	- 40°C up to +120°C	colour black
Rubber	- 50°C up to +120°C	colour black
Aluminium	up to +300°C	
All metal parts available in stainless steel		
Other materials upon request.		



Accessories material:

Series A and B - Steel. Screws as well as cover plates are galvanized.

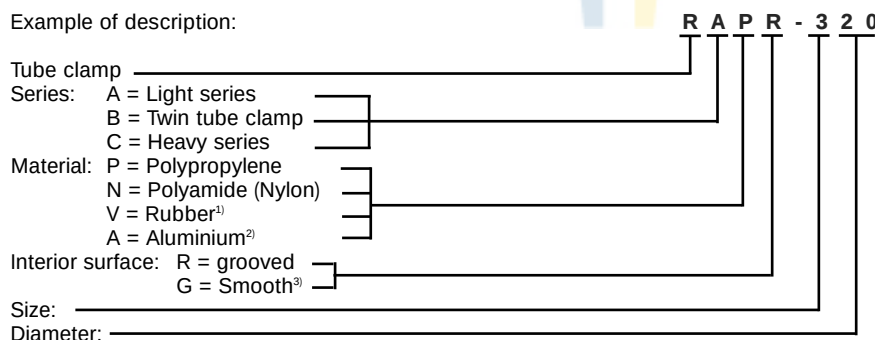
Resistance to stress:

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

Order code:

The order code for RSB clamp-halves as well as for complete tube clamps incorporates the serial indication, material description and interior surface.

Example of description:



1) Rubber only available for series A and B, inside smooth and series C grooved design (R)

2) Aluminium only available for series A size 1 to 6 and series C size 1 to 8

3) Smooth interior surface in series C only to size 4

Aluminium clamps only available in a grooved design (R)

Inside smooth series A only size 1 to 6

Registration:

German Lloyd, Lloyd's Register of Shipping and others.

P
A
G
E

BACK