

Pipe retaining clips in accordance with DIN 3016

NORMAFIX® RS/RSGU pipe retaining clips are suitable for all kinds of fastening and retaining applications: pipes, cables, cable harnesses, cable protection pipes, hoses and other lines.

- Form-fit, adjustable band
 - makes installation easier and ensures secure fastening
- Reinforced band ends
 - strengthen the band; prevent retaining sections from tearing or becoming loose during exposure to extremely high mechanical loads
- 3 Can be supplied with rubber profile as an option
 - protection against vibrations and creeping water
 - sound-absorbing
 - improved form closure between clip and clamping fixture
 - dumping
 - protection against contact corrosion



Advantages at a glance

- Easy installation and secure fastening
- Reinforced band ends for extremely high mechanical loads
- Rubber profile protects against vibrations and creeping water, is sound-absorbent and protects against contact corrosion
- Prepositioning on the tube (RSGUV) makes assembly significantly easier
- No single parts for the customer

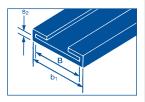
Applications

- Machine building
- White goods
- Chemical industry
- Irrigation systems
- Ship manufacturing
- Food and beveridge industry
- Railway industry
- Agricultural machines
- Building machines
- Engine manufacturing
- Pump and filter
- Mining industry

Rubber profile

Material properties of EPDM rubber profile

Material properties		EPDM rubber profile
Tensile strength [N/mm²]		Min. 8
Elongation at break [%]		350
Shore hardness A		70 ± 5
Temperature [°C]		-40 to +120
Resistance to:	Weather/Ozone	Very good
	Ageing/UV	Very good
	Fuel storage	Not suitable
	Storage in oils and greases	Not suitable
	Alcohols	Good
	Acids	Good
	Alkalis	Good



B = band width of clip

b₄ = width in mm

 s_2 = material thickness in mm

Silicone rubber profile also available on request.

Versions

The standard version is NORMAFIX® RS/RSGU (type1). A round version (NORMAFIX® RS/RSGU type 0) and an open version (NORMAFIX® RS/RSGU type 2) are also available.







In addition to the types mentioned above, a special NORMAFIX® RV range is also available. This range of pipe retaining clips is a variation on the standard RS/RSGU model (type 1) and features a mounting fastener. When the two clip ends are pressed together, the mounting fastener locks into place automatically and holds the clip closed (pre-installation on pipe systems). See RSGUV 1 picture on the right.



We will be happy to provide information about available diameters and band widths on request.

The NORMAFIX® RLGU is directly based on the standard type 1 model, but does not have reinforced band ends and is suitable for use wherever pipe retaining clips are exposed to only slight mechanical loads (e.g. in the case of cable fastening). The NORMAFIX® RLGU range can only be supplied with a band width of 12 mm.



Please refer to the table of sizes in this document for information on the full range. If required, all NORMAFIX® pipe retaining clips can also be fitted with a special sound damping rubber profile.

Other sizes available on request.

Bolt

The scope of delivery does not include bolts or nuts.

We recommend:

For NORMAFIX® RSGU with 12mm band width: M5 bolt For NORMAFIX® RSGU with 15mm band width: M6 bolt For NORMAFIX® RSGU with 20mm band width: M8 bolt For NORMAFIX® RLGU with 12mm band width: M6 bolt



Ordering information

When submitting requests and orders, please specify the data in the following way

	1. Type	2. Clamping diameter (outer pipe diameter)	3. Band width	4. Material
Example	RSGU 1.	6/	12	W1

Materials

W1	W2	W3	W4	W5
х		х	х	х

Special surfaces 2B Zinc Nickel on request.

Sizes, band widths & materials

Band		Clampin	g ranges				
width	Designation	in mm	in inches	W1	W3	W4	W5
12	RSGU 1.6/12	6	1/4	Х	Х	Х	Х
	RSGU 1.8/12	8	5/16	X	X	Х	Х
	RSGU 1.10/12	10	3/8	X	X	Х	Х
	RSGU 1.12/12	12	1/2	X	X	Х	Х
	RSGU 1.13/12	13	1/2	X	X	Х	Х
	RSGU 1.14/12	14	9/16	X	X	Х	Х
	RSGU 1.15/12	15	5/8	X	X	Х	Х
	RSGU 1.16/12	16	5/8	X	X	Х	Х
	RSGU 1.18/12	18	3/4	X	X	Х	Х
	RSGU 1.19/12	19	3/4	X	X	Х	Х
	RSGU 1.20/12	20	1 3/16	X	X	Х	Х
	RSGU 1.21/12	21	1 3/16	X	X	Х	Х
	RSGU 1.22/12 22		7/8	X	X	Х	Х
15	RSGU 1.6/15	6	1/4	X	X	Х	Х
	RSGU 1.8/15	8	5/16	X	X	Х	Х
	RSGU 1.10/15	10	3/8	X	X	Х	Х
	RSGU 1.12/15	12	1/2	X	X	Х	Х
	RSGU 1.13/15	13	1/2	X	X	Х	Х
	RSGU 1.14/15	14	9/16	X	X	Х	Х
	RSGU 1.15/15	15	5/8	X	X	Х	Х
	RSGU 1.16/15	16	5/8	X	X	Х	Х
	RSGU 1.18/15	18	3/4	X	X	Х	Х
	RSGU 1.19/15	19	3/4	X	X	Х	Х
	RSGU 1.20/15	20	1 3/16	X	X	Х	Х
	RSGU 1.21/15	21	1 3/16	X	X	Х	Х
	RSGU 1.22/15	22	7/8	X	X	Х	Х
	RSGU 1.23/15	23	7/8	X	X	Х	Х
	RSGU 1.25/15	25	1	X	X	Х	Х
	RSGU 1.26/15	26	1 1/16	X	X	Χ	Х
	RSGU 1.28/15	28	1 1/8	X	X	Х	Х
	RSGU 1.30/15	30	1 3/16	X	X	Х	Х
	RSGU 1.32/15	32	1 1/4	X	X	X	Х
	RSGU 1.34/15	34	1 5/16	Х	Х	Х	Х
	RSGU 1.35/15	35	1 3/8	Х	Х	Х	Х

Sizes, band widths & materials

Band		Clamnii	ng ranges				
width	Designation	in mm	in inches	W1	W3	W4	W5
20	RSGU 1.10/20	10	3/8	Х	Х	Х	Х
	RSGU 1.12/20	12	1/2	Х	Х	Х	Х
	RSGU 1.13/20	13	1/2	Х	Х	Х	Х
	RSGU 1.14/20	14	9/16	Х	Х	Х	Х
	RSGU 1.15/20	15	5/8	Х	Х	Х	Х
	RSGU 1.16/20	16	5/8	Х	X	Х	Х
	RSGU 1.18/20	18	3/4	Х	Х	Х	Х
	RSGU 1.19/20	19	3/4	Х	Х	Х	Х
	RSGU 1.20/20	20	13/16	Х	Х	Х	Х
	RSGU 1.22/20	22	7/8	Х	Х	Х	Х
	RSGU 1.23/20	23	7/8	Х	Х	Х	Х
	RSGU 1.24/20	24	15/16	Х	X	Х	Х
	RSGU 1.25/20	25	1	Х	Х	Х	Х
	RSGU 1.28/20	28	11/8	Х	X	Х	Х
	RSGU 1.30/20	30	13/16	Х	Х	Х	Х
	RSGU 1.32/20	32	11/4	Х	X	Х	Х
	RSGU 1.34/20	34	15/16	Х	Х	Х	Х
	RSGU 1.35/20	35	13/8	Х	X	Х	Х
	RSGU 1.36/20	36	17/16	Х	X	Х	Х
	RSGU 1.38/20	38	11/2	Х	X	Х	Х
	RSGU 1.40/20	40	19/16	Х	Х	Х	Х

Band		Clampii	ng ranges	
width	Designation	in mm	in inches	W1
12	RLGU 1.5/12	5	3/16	Х
	RLGU 1.6/12	6	1/4	Х
	RLGU 1.7/12	7	5/16	Х
	RLGU 1.8/12	8	5/16	Х
	RLGU 1.9/12	9	3/8	Х
	RLGU 1.10/12	10	3/8	Х
	RLGU 1.11/12	11	7/16	Х
	RLGU 1.12/12	12	1/2	Х
	RLGU 1.13/12	13	1/2	Х
	RLGU 1.14/12	14	9/16	Х
	RLGU 1.15/12	15	5/8	Х
	RLGU 1.16/12	16	5/8	Х
	RLGU 1.17/12	17	1 1/16	Х
	RLGU 1.18/12	18	3/4	Х
	RLGU 1.19/12	19	3/4	Х
	RLGU 1.20/12	20	1 3/16	Х
	RLGU 1.21/12	21	1 3/16	Х
	RLGU 1.22/12	22	7/8	Х
	RLGU 1.23/12	23	7/8	Х
	RLGU 1.24/12	24	1 5/16	Х
	RLGU 1.25/12	25	1	Х
	RLGU 1.26/12	26	1 1/16	Х
	RLGU 1.27/12	27	1 1/16	Х
	RLGU 1.28/12	28	1 1/8	Х
	RLGU 1.29/12	29	1 1/8	Х
	RLGU 1.30/12	30	1 3/16	X
	RLGU 1.31/12	31	1 1/4	X
	RLGU 1.32/12	32	1 1/4	Х
	RLGU 1.33/12	33	1 5/16	Х
	RLGU 1.34/12	34	1 5/16	X
	RLGU 1.35/12	35	1 3/8	X
	RLGU 1.36/12	36	1 7/16	X
	RLGU 1.37/12	37	1 7/16	Х
	RLGU 1.38/12	38	1 1/2	X
	RLGU 1.39/12	39	1 9/16	Х
	RLGU 1.40/12	40	1 9/16	Х
	RLGU 1.41/12	41	1 5/8	Х
	RLGU 1.42/12	42	1 5/8	Х
	RLGU 1.43/12	43	1 11/16	Х
	RLGU 1.44/12	44	1 3/4	Х
	RLGU 1.45/12	45	1 3/4	Х

NORMAFIX® RSO Pipe clip type 0 Without rubber profile



NORMA	FIX® RSO							
Band	Minimum	d	h1 ²⁾	- 1	s			
width	Ø ¹⁾		*		W1	W3	W4	W5
9	5	4.3 (M4)	4.7+ 9/2	3.8	0.4	0.4	0.4	0.4
12	5	5.3 (M5)	6.8 + 9/2	5.0	0.5	0.5	0.5	0.5
15	8	6.4 (M6)	9.7 + 9/2	6.0	ø14 = 0.6 from ø15 = 0.8	0.6	0.6	0.6
20	15	8.4 (M8)	12.5 + 2	8.5	ø25 = 0.8 from ø26 = 1.0	0.8	0.8	0.8
25	20	10.5 (M10)	14.5 + 2	10.0	ø49 = 1.0 from ø50 = 1.25	1.0	1.0	1.0

NORMAFIX® RSGU0

Pipe clip type 0 With rubber profile



Dand	Minimum	Rubber profile							
Band width	ø ¹⁾	h1²) ≈	b1	s2	EPDM	Silicone			
9	4	5.7+ 9/2	12.5	1.0	•	-			
12	4	$8.0 + \frac{\emptyset}{2}$	15.0	1.2	•	•			
15	5	11.2 + 9/2	18.5	1.5	•	•			
20	10	14.5 + 9/2	25.0	2.0	•	•			
25	15	17.5 + ^Ø / ₂	31.0	3.0	•	•			

NORMAFIX® RS1

Pipe clip type 1 Without rubber profile



Band	Minimum	d	h1 ²⁾	1		s		
width	Ø ¹⁾		≈		W1	W3	W4	W5
9	5	4.3 (M4)	4.7+ ø/2	3.8	0.4	0.4	0.4	0.4
12	5	5.3 (M5)	$6.8 + \frac{\emptyset}{2}$	5.0	0.5	0.5	0.5	0.5
15	8	6.4 (M6)	9.7 + 9.7 + 9.7	6.0	ø14 = 0.6 from ø15 = 0.8	0.6	0.6	0.6
20	15	8.4 (M8)	12.5 + 2	8.5	ø25 = 0.8 from ø26 = 1.0	0.8	0.8	0.8
25	20	10.5 (M10)	14.5 + 2	10.0	ø49 = 1.0 from ø50 = 1.25	1.0	1.0	1.0

NORMAFIX® RSGU1

Pipe clip type 1 With rubber profile



	FIX® RSGU1			Rubber profile						
Band width	Minimum ø ¹⁾	h1²) ≈	b1	s2	EPDM	Silicone				
9	4	5.7+ 9/2	12.5	1.0	•	-				
12	4	8.0 + $\frac{\emptyset}{2}$	15.0	1.2	•	•				
15	5	11.2 + 9/2	18.5	1.5	•	•				
20	10	14.5 + 9/2	25.0	2.0	•	•				
25	15	17.5 + ^Ø 2	31.0	3.0	•	•				

NORMAFIX® RS2 Pipe clip type 2 Without rubber profile



NORMA	FIX® RS2							
Band	Minimum	d	h1 ²⁾	T.		s		
width	Ø ¹⁾		≈		W1	W3	W4	W5
9	5	4.3 (M4)	4.7+ <u>Ø</u>	3.8	0.4	0.4	0.4	0.4
12	5	5.3 (M5)	$6.8 + \frac{\emptyset}{2}$	5.0	0.5	0.5	0.5	0.5
15	8	6.4 (M6)	9.7 + 9/2	6.0	ø14 = 0.6 from ø15 = 0.8	0.6	0.6	0.6
20	15	8.4 (M8)	12.5 + ½	8.5	ø25 = 0.8 from ø26 = 1.0	0.8	0.8	0.8
25	20	10.5 (M10)	14.5 + 9/2	10.0	ø49 = 1.0 from ø50 = 1.25	1.0	1.0	1.0

NORMAFIX® RSGU2

Pipe clip type 2 With rubber profile



NORMA	FIX® RSGU2	2								
Band	Minimum		Rubber profile							
width	ø¹)	h1²) ≈	b1	s2	EPDM	Silicone				
9	4	5.7+ Ø	12.5	1.0	•	-				
12	4	$8.0 + \frac{\emptyset}{2}$	15.0	1.2	•	•				
15	5	11.2 + 9/2	18.5	1.5	•	•				
20	10	14.5 + 9/2	25.0	2.0	•	•				
25	15	17.5 + 9/2	31.0	3.0	•	•				

NORMAFIX® RLGU Pipe clip type 1

With rubber profile



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NORMAFIX® RLGU								
Band width	Minimum ø ¹⁾	d	h1²) ≈	I	Rubber profile			s
					b1	s2	EPDM	W1
12	4	6.4 (M6)	11.2+ 💆	6	15	1.2	•	0.4

- 1) The progressive ratio is 1mm.
- 2) Tool dimension

The scope of delivery does not include bolts or nuts.





NORMA Group

Postfach 11 49 · D-63461 Maintal Edisonstraße 4 · D-63477 Maintal

> Tel: +49 (61 81) 4 03-0 Fax: +49 (61 81) 4 03-210

> > www.normagroup.com info@normagroup.com

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