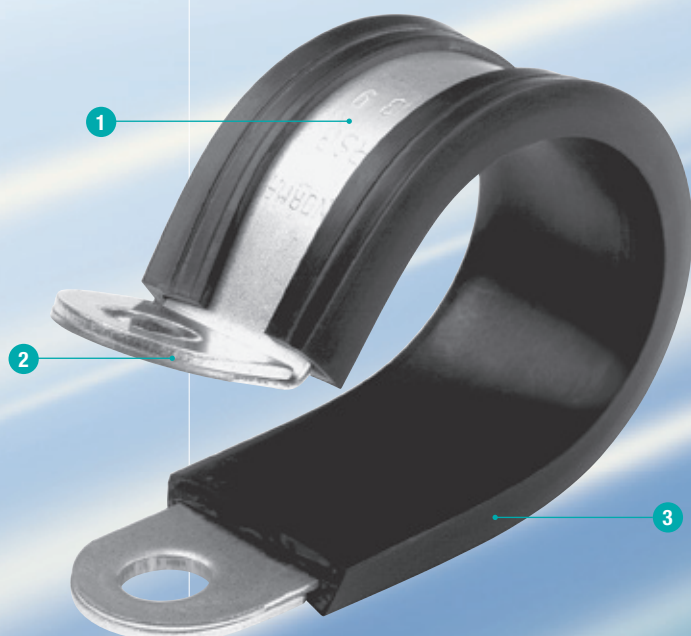


NORMAFIX® RS/RSGU/RLGU

Pipe retaining clips

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. The Pipe retaining clips are in accordance with DIN 3016.

Features and short description



- 1 Form-fit, adjustable band**
 - makes installation easier and ensures secure fastening
- 2 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, RSGUV

- Prefixing on the tube
- No single parts for the customer

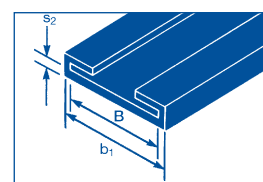
Applications

- Machine building
- White goods
- Chemical industry
- Irrigation systems
- Ship manufacturing
- Food and beverage 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/mm ²]		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

b₁ = width in mm

s₂ = material thickness in mm

Silicone rubber profile also available on request.

Versions

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

Type 0



Type 1



Type 2



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.

RSGUV 1



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

The latest NORMAFIX® range of products is NORMAFIX® RLGU. This too 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.

RLGU



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.

NORMAFIX® RS/RSGU/RLGU

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
x		x	x	x

Special surfaces 2B Zinc Nickel on request.

Sizes, band widths & materials

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

Sizes, band widths & materials

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

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

NORMAFIX® RS/RSGU/RLGU

NORMAFIX® RSO

Pipe clip type 0

Without rubber profile



NORMAFIX® RSO								
Band width	Minimum $\varnothing^{1)}$	d	$h^{12)}$ ≈	l	s			
					W1	W3	W4	W5
9	5	4.3 (M4)	$4.7 + \frac{\varnothing}{2}$	3.8	0.4	0.4	0.4	0.4
12	5	5.3 (M5)	$6.8 + \frac{\varnothing}{2}$	5.0	0.5	0.5	0.5	0.5
15	8	6.4 (M6)	$9.7 + \frac{\varnothing}{2}$	6.0	... $\varnothing 14 = 0.6$ from $\varnothing 15 = 0.8$	0.6	0.6	0.6
20	15	8.4 (M8)	$12.5 + \frac{\varnothing}{2}$	8.5	... $\varnothing 25 = 0.8$ from $\varnothing 26 = 1.0$	0.8	0.8	0.8
25	20	10.5 (M10)	$14.5 + \frac{\varnothing}{2}$	10.0	... $\varnothing 49 = 1.0$ from $\varnothing 50 = 1.25$	1.0	1.0	1.0

NORMAFIX® RSGU0

Pipe clip type 0

With rubber profile



NORMAFIX® RSGU0						
Band width	Minimum $\varnothing^{1)}$	Rubber profile				
		$h^{12)}$ ≈	b1	s2	EPDM	Silicone
9	4	$5.7 + \frac{\varnothing}{2}$	12.5	1.0	•	–
12	4	$8.0 + \frac{\varnothing}{2}$	15.0	1.2	•	•
15	5	$11.2 + \frac{\varnothing}{2}$	18.5	1.5	•	•
20	10	$14.5 + \frac{\varnothing}{2}$	25.0	2.0	•	•
25	15	$17.5 + \frac{\varnothing}{2}$	31.0	3.0	•	•

NORMAFIX® RS1

Pipe clip type 1

Without rubber profile



NORMAFIX® RS1								
Band width	Minimum $\varnothing^{1)}$	d	$h^{12)}$ ≈	l	s			
					W1	W3	W4	W5
9	5	4.3 (M4)	$4.7 + \frac{\varnothing}{2}$	3.8	0.4	0.4	0.4	0.4
12	5	5.3 (M5)	$6.8 + \frac{\varnothing}{2}$	5.0	0.5	0.5	0.5	0.5
15	8	6.4 (M6)	$9.7 + \frac{\varnothing}{2}$	6.0	... $\varnothing 14 = 0.6$ from $\varnothing 15 = 0.8$	0.6	0.6	0.6
20	15	8.4 (M8)	$12.5 + \frac{\varnothing}{2}$	8.5	... $\varnothing 25 = 0.8$ from $\varnothing 26 = 1.0$	0.8	0.8	0.8
25	20	10.5 (M10)	$14.5 + \frac{\varnothing}{2}$	10.0	... $\varnothing 49 = 1.0$ from $\varnothing 50 = 1.25$	1.0	1.0	1.0

NORMAFIX® RSGU1

Pipe clip type 1

With rubber profile



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

NORMAFIX® RS2

Pipe clip type 2
Without rubber profile



NORMAFIX® RS2

Band width	Minimum $\phi^{1)}$	d	$h1^{2)}$ ≈	l	s			
					W1	W3	W4	W5
9	5	4.3 (M4)	$4.7 + \frac{0}{2}$	3.8	0.4	0.4	0.4	0.4
12	5	5.3 (M5)	$6.8 + \frac{0}{2}$	5.0	0.5	0.5	0.5	0.5
15	8	6.4 (M6)	$9.7 + \frac{0}{2}$	6.0	... $\phi 14 = 0.6$ from $\phi 15 = 0.8$	0.6	0.6	0.6
20	15	8.4 (M8)	$12.5 + \frac{0}{2}$	8.5	... $\phi 25 = 0.8$ from $\phi 26 = 1.0$	0.8	0.8	0.8
25	20	10.5 (M10)	$14.5 + \frac{0}{2}$	10.0	... $\phi 49 = 1.0$ from $\phi 50 = 1.25$	1.0	1.0	1.0

NORMAFIX® RSGU2

Pipe clip type 2
With rubber profile



NORMAFIX® RSGU2

Band width	Minimum $\phi^{1)}$	Rubber profile				
		$h1^{2)}$ ≈	b1	s2	EPDM	Silicone
9	4	$5.7 + \frac{0}{2}$	12.5	1.0	•	–
12	4	$8.0 + \frac{0}{2}$	15.0	1.2	•	•
15	5	$11.2 + \frac{0}{2}$	18.5	1.5	•	•
20	10	$14.5 + \frac{0}{2}$	25.0	2.0	•	•
25	15	$17.5 + \frac{0}{2}$	31.0	3.0	•	•

NORMAFIX® RLGU

Pipe clip type 1
With rubber profile

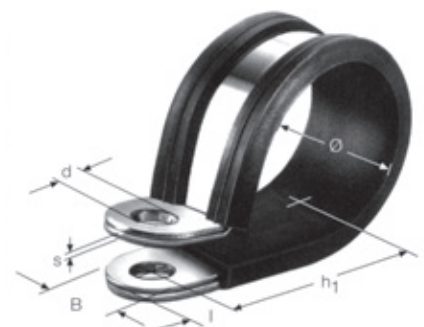


NORMAFIX® RLGU

Band width	Minimum $\phi^{1)}$	d	$h1^{2)}$ ≈	l	Rubber profile			s
					b1	s2	EPDM	W1
12	4	6.4 (M6)	$11.2 + \frac{0}{2}$	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

This catalogue supersedes all previous issues. No part of this publication may be reproduced without our prior written consent. In NORMA Group's policy of continual product improvements to meet user needs and technological developments, all models and sets listed in this folder (photographs, specifications, sizes and weights) may be upgraded or discontinued without notice and without any obligation on our part to modify tools or equipment sold previously. The recommendations for use and safety given in this folder do not replace accepted good practice or the safety related legal and regulatory provisions. References to standards implemented at 01/02/2012 are not contractually binding.