

## NORMACLAMP® – Hose Clamps

### NORMACLAMP® GBS – Heavy duty clamps to DIN 3017

NORMACLAMP® GBS are particularly suited for sealing suction and pressure lines with plastic or steel reinforcements and high

shore hardnesses. Their distinguishing feature is the extremely high band tensile force.

The assembly of NORMACLAMP® GBS is easily completed by means of either manual, pneumatic or electric standard tools.

### Short description of technical features



- 1** W1/W2/W4  
New specially designed bolt with integrated spacer  
= improved efficiency, cannot get lost  
W5  
Hexagonal socket screw

- 2** Reinforced loops  
= allow to withstand significantly higher torques

- 3** Mechanically locked closure  
= no welding points, no contact corrosion

- 4** Bridge = optimal hose protection

- 5** Robust band with rounded edges  
= protection against injuries and damage to the hose surface

### Materials

W1*	W2*	W4	W5
X	X	X	X

\* No Chromium VI used for surface treatment of closure unit

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## Clamp Types



### NORMACLAMP® GBS with QR closure

On request the NORMACLAMP® GBS is available with QRC (Quick Release Closure). The hinged bolt can be quickly released and enables the fast and easy assembly or disassembly of the clamp.

Only available in W1 and W2!



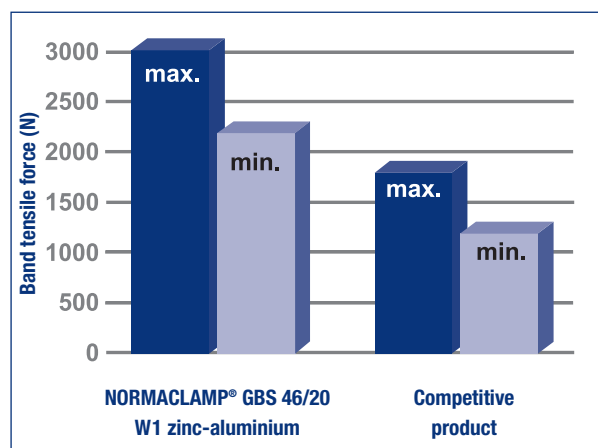
### NORMACLAMP® GBS Multi-Part version

The 2-part version of the NORMACLAMP® GBS is an additional clamp type in this range.

## Technical features

### Band tensile forces

The results of numerous test sequences proved that NORMACLAMP® GBS are superior to comparable competitive products:



Band width (mm)	Material thickness (mm)					
	W1	W2	W4	W5	M	SW
18	0.8	0.6	0.6	0.6	6	8
20	1.0	0.8	0.8	0.8	7	10
25	1.0	1.0	1.0	1.0	8	13
30	1.3	1.0	1.0	1.0	10	17

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## Torques

NORMACLAMP®GBS					
Band width (mm)	Fracture torques (min.)				Recommended tightening torque
	W1	W2	W4	W5	
18	15 Nm	15 Nm	15 Nm	15 Nm	8 Nm
20	25 Nm	20 Nm	20 Nm	20 Nm	10 Nm
25	35 Nm	30 Nm	30 Nm	30 Nm	20 Nm
30	50 Nm	45 Nm	45 Nm	45 Nm	25 Nm

NORMACLAMP®GBS QRC			
Band width (mm)	Fracture torques (min.)		Recommended tightening torque
	W1	W2	
18	10 Nm	10 Nm	6 Nm
20	15 Nm	15 Nm	8 Nm
25	25 Nm	25 Nm	18 Nm
30	40 Nm	40 Nm	22 Nm

## Corrosion resistance

Material	Corrosion resistance in salt spray testing
W1	Min. 72 h
W2	Min. 72 h
W4	Min. 240 h
W5	Min. 400 h

## Applications

The NORMACLAMP® GBS are specially suitable for use on commercial and special vehicles:

- Sealing and retaining suction and pressure hoses with steel or plastic reinforcements and high shore hardness.

## The advantages at a glance

- Twofold improved failure torque
- Threefold improved band tensile forces

# NORMACLAMP® – Hose Clamps

## Survey of sizes, band widths & materials NORMACLAMP® GBS

Band width (mm)	Description	Clamping Range		Packaging PU	W1	W2	W4	W5
		in mm	in Inches					
18	GBS M 17-19/18 SK*	17-19	1 1/16-3/4	50	X	X	X	X
18	GBS M 19-21/18 SK*	19-21	3/4-13/16	50	X	X	X	X
18	GBS M 21-23/18 SK*	21-23	13/16-7/8	50	X	X	X	X
18	GBS M 23-25/18 SK*	23-25	7/8-1	50	X	X	X	X
18	GBS M 25-27/18 SK	25-27	1-11/16	50	X	X	X	X
18	GBS M 27-29/18 SK	27-29	1 1/16-1 1/8	50	X	X	X	X
18	GBS M 29-31/18 SK	29-31	1 1/8-1 1/4	50	X	X	X	X
18	GBS M 31-34/18 SK	31-34	1 1/4-15/16	50	X	X	X	X
18	GBS M 34-37/18 SK	34-37	1 5/16-1 7/16	50	X	X	X	X
18	GBS M 37-40/18 SK	37-40	1 7/16-1 9/16	50	X	X	X	X
18	GBS M 40-43/18 SK	40-43	1 9/16-1 11/16	50	X	X	X	X
20	GBS M 43-47/20 SK	43-47	1 11/16-1 7/8	50	X	X	X	X
20	GBS M 47-51/20 SK	47-51	1 7/8-2	50	X	X	X	X
20	GBS M 51-55/20 SK	51-55	2-23/16	50	X	X	X	X
20	GBS M 55-59/20 SK	55-59	23/16-25/16	50	X	X	X	X
20	GBS M 59-63/20 SK	59-63	25/16-2 1/2	50	X	X	X	X
20	GBS M 63-68/20 SK	63-68	2 1/2-2 11/16	50	X	X	X	X
25	GBS M 68-73/25 SK	68-73	2 11/16-2 7/8	25	X	X	X	X
25	GBS M 73-79/25 SK	73-79	2 7/8-3 1/8	25	X	X	X	X
25	GBS M 79-85/25 SK	79-85	3 1/8-3 3/8	25	X	X	X	X
25	GBS M 85-91/25 SK	85-91	3 3/8-3 9/16	25	X	X	X	X
25	GBS M 91-97/25 SK	91-97	3 9/16-3 13/16	25	X	X	X	X
25	GBS M 97-104/25 SK	97-104	3 13/16-4 1/8	25	X	X	X	X
25	GBS M 104-112/25 SK	104-112	4 1/8-4 7/16	25	X	X	X	X
25	GBS M 112-121/25 SK	112-121	4 7/16-4 3/4	25	X	X	X	X
25	GBS M 121-130/25 SK	121-130	4 3/4-5 1/8	25	X	X	X	X
30	GBS M 130-140/30 SK	130-140	5 1/8-5 1/2	10	X	X	X	X
30	GBS M 140-150/30 SK	140-150	5 1/2-5 7/8	10	X	X	X	X
30	GBS M 150-162/30 SK	150-162	5 7/8-6 3/8	10	X	X	X	X
30	GBS M 162-174/30 SK	162-174	6 3/8-6 7/8	10	X	X	X	X
30	GBS M 174-187/30 SK	174-187	6 7/8-7 3/8	10	X	X	X	X
30	GBS M 187-200/30 SK	187-200	7 3/8-7 7/8	10	X	X	X	X
30	GBS M 200-213/30 SK	200-213	7 7/8-8 3/8	10	X	X	X	X
30	GBS M 213-226/30 SK	213-226	8 3/8-8 7/8	10	X	X	X	X
30	GBS M 226-239/30 SK	226-239	8 7/8-9 3/8	10	X	X	X	X
30	GBS M 239-252/30 SK	239-252	9 3/8-9 15/16	10	X	X	X	X

\* These sizes are not mechanically locked but spot welded

PU = packaging unit

# NORMACLAMP® – Hose Clamps

## Survey of sizes, band widths & materials NORMACLAMP® GBS 2-parts

Band width (mm)	Description	Clamping Range		Packaging PU	W1	W2	W4	W5
		in mm	in Inches					
18	GBS M 59-67/18 SK 2T	59-67	2 <sup>3</sup> / <sub>16</sub> -2 <sup>5</sup> / <sub>8</sub>	50	X	X	X	X
18	GBS M 67-75/18 SK 2T	67-75	2 <sup>5</sup> / <sub>8</sub> -2 <sup>15</sup> / <sub>16</sub>	50	X	X	X	X
20	GBS M 67-75/20 SK 2T	67-75	2 <sup>5</sup> / <sub>8</sub> -2 <sup>15</sup> / <sub>16</sub>	50	X	X	X	X
20	GBS M 75-83/20 SK 2T	75-83	2 <sup>15</sup> / <sub>16</sub> -3 <sup>1</sup> / <sub>4</sub>	50	X	X	X	X
20	GBS M 83-91/20 SK 2T	83-91	3 <sup>1</sup> / <sub>4</sub> -3 <sup>9</sup> / <sub>16</sub>	50	X	X	X	X
25	GBS M 88-100/25 SK 2T	88-100	3 <sup>3</sup> / <sub>8</sub> -4	25	X	X	X	X
25	GBS M 100-116/25 SK 2T	100-116	4-4 <sup>9</sup> / <sub>16</sub>	25	X	X	X	X
25	GBS M 116-136/25 SK 2T	116-136	4 <sup>9</sup> / <sub>16</sub> -5 <sup>3</sup> / <sub>8</sub>	25	X	X	X	X
25	GBS M 136-156/25 SK 2T	136-156	5 <sup>3</sup> / <sub>8</sub> -6 <sup>5</sup> / <sub>32</sub>	25	X	X	X	X
25	GBS M 156-180/25 SK 2T	156-180	6 <sup>5</sup> / <sub>32</sub> -7 <sup>3</sup> / <sub>32</sub>	25	X	X	X	X
30	GBS M 125-145/30 SK 2T	125-145	4 <sup>15</sup> / <sub>16</sub> -5 <sup>11</sup> / <sub>16</sub>	10	X	X	X	X
30	GBS M 145-168/30 SK 2T	145-168	5 <sup>11</sup> / <sub>16</sub> -6 <sup>5</sup> / <sub>8</sub>	10	X	X	X	X
30	GBS M 168-193/30 SK 2T	168-193	6 <sup>5</sup> / <sub>8</sub> -7 <sup>19</sup> / <sub>32</sub>	10	X	X	X	X
30	GBS M 193-220/30 SK 2T	193-220	7 <sup>19</sup> / <sub>32</sub> -8 <sup>21</sup> / <sub>32</sub>	10	X	X	X	X
30	GBS M 220-245/30 SK 2T	220-245	8 <sup>21</sup> / <sub>32</sub> -9 <sup>21</sup> / <sub>32</sub>	10	X	X	X	X
30	GBS M 245-270/30 SK 2T	245-270	9 <sup>21</sup> / <sub>32</sub> -10 <sup>3</sup> / <sub>5</sub>	10	X	X	X	X
30	GBS M 270-295/30 SK 2T	270-295	10 <sup>3</sup> / <sub>5</sub> -11 <sup>10</sup> / <sub>16</sub>	10	X	X	X	X
30	GBS M 295-320/30 SK 2T	295-320	11 <sup>10</sup> / <sub>16</sub> -12 <sup>3</sup> / <sub>5</sub>	10	X	X	X	X
30	GBS M 320-345/30 SK 2T	320-345	12 <sup>3</sup> / <sub>5</sub> -13 <sup>7</sup> / <sub>12</sub>	10	X	X	X	X

PU = packaging unit

### Enquiries/ordering:

When making enquiries or placing an order please indicate as follows:

	1. Type	2. Clamping Range	3. Band width	4. Material	5. Parts
Example	GBS QR	43-47	20	W1	1-piece