



- 2 Type**
- A Without key
  - B With key

**Inch table**

Dimensions in: inches - *millimeters*

d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub>	d <sub>4</sub>	d <sub>5</sub>	h	k <sub>1</sub>	k <sub>2</sub>	Length l	Nominal load (WLL) in metric tons
3/8 x 16	0.64 16.3	0.98 25	1.18 30	0.98 25	1.81 46	0.35 9	1.85 47	0.59 15	0.40 t [4.0 kN]
1/2 x 13	0.78 19.8	1.18 30	1.34 34	1.18 30	2.17 55	0.39 10	2.20 56	0.71 18	0.75 t [7.5 kN]
5/8 x 11	0.93 23.5	1.42 36	1.57 40	1.38 35	2.52 64	0.51 13	2.56 65	0.94 24	1.50 t [15.0 kN]
3/4 x 10	1.15 29.3	1.61 41	1.97 50	1.57 40	2.95 75	0.63 16	2.99 76	1.18 30	2.30 t [23.0 kN]
7/8 x 9	1.15 29.3	1.61 41	1.97 50	1.57 40	2.95 75	0.63 16	2.99 76	1.18 30	2.30 t [23.0 kN]
1 x 8	1.38 35	2.01 51	2.36 60	1.93 49	3.54 90	0.75 19	3.62 92	1.42 36	3.20 t [32.0 kN]
1 1/4 x 7	1.73 44	2.60 66	2.95 75	2.36 60	4.45 113	0.94 24	4.49 114	1.77 45	4.50 t [45.0 kN]

**Metric table**

Dimensions in: millimeters - *inches*

d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub>	d <sub>4</sub>	d <sub>5</sub>	h	k <sub>1</sub>	k <sub>2</sub>	Length l	Nominal load (WLL) in metric tons
M 6	13 0.51	23 0.91	28 1.10	20 0.79	37 1.46	7 0.28	37 1.46	9 0.35	0.10 t [1.0 kN]
M 8	16.3 0.64	25 0.98	30 1.18	25 0.98	46 1.81	9 0.35	47 1.85	12 0.47	0.30 t [3.0 kN]
M 10	16.3 0.64	25 0.98	30 1.18	25 0.98	46 1.81	9 0.35	47 1.85	15 0.59	0.40 t [4.0 kN]
M 12	19.8 0.78	30 1.18	34 1.34	30 1.18	55 2.17	10 0.39	56 2.20	18 0.71	0.75 t [7.5 kN]
M 16	23.5 0.93	36 1.42	40 1.57	35 1.38	64 2.52	13 0.51	65 2.56	24 0.94	1.50 t [15.0 kN]
M 20	29.3 1.15	41 1.61	50 1.97	40 1.57	75 2.95	16 0.63	76 2.99	30 1.18	2.30 t [23.0 kN]
M 24	35 1.38	51 2.01	60 2.36	49 1.93	90 3.54	19 0.75	92 3.62	36 1.42	3.20 t [32.0 kN]
M 30	44 1.73	66 2.60	75 2.95	60 2.36	113 4.45	24 0.94	114 4.49	45 1.77	4.50 t [45.0 kN]
M 36	53 2.09	76 2.99	98 3.86	73 2.87	135 5.31	29 1.14	135 5.31	54 2.13	7.00 t [70.0 kN]

**Safety notes**

The loads in brackets refer to the load capacity of the corresponding DIN 580 lifting eye bolt. If this value is not indicated, the use of DIN 580 lifting eye bolts is not permitted!

The screw-on surface of the GN 581 lifting eye bolts must be plane and at a right angle to the threaded hole; the countersunk must be ≤ the nominal diameter of the thread.

When screwed in, the collar of the bolt must fit firmly (do not use washers) and the ring housing must rotate freely by 360°.

Before applying the load, turn the lifting eye bolt in the direction of the load. The lifting eye bolt is not suitable for rotary movements under load.

The specified load values apply to a minimum screw-in length of 1.5 × nominal thread diameter in steel with a minimum tensile strength of 37 kp/mm<sup>2</sup>, at an operating temperature of -40 °F to +212 °F (-40 °C to +100 °C). Load bearing capacity under different conditions on request.

The operating instruction contains further guidelines and is included with every eye bolt (see also at [www.jwwinco.com/service](http://www.jwwinco.com/service)).



Dimensions in: metric tons

Mounting method													
	Quantity	Angle of inclination	Factor	1 0°	1 90° 1	2 0°	2 90° 2	2 0 to 45° 1.4	2 45 to 60° 1	2 asymmetric 1	3 and 4 0 to 45° 2.1	3 and 4 45 to 60° 1.5	3 and 4 asymmetric 1
M 6	-	-	-	0.50 t	0.10 t	1.00 t	0.20 t	0.14 t	0.10 t	0.10 t	0.21 t	0.15 t	0.10 t
M 8	-	-	-	1.00 t [0.14]	0.30 t	2.00 t [0.28]	0.60 t	0.42 t [0.10]	0.30 t	0.30 t	0.63 t	0.45 t	0.30 t
M 10	3/8	x 16	-	1.00 t [0.23]	0.40 t	2.00 t [0.46]	0.80 t	0.56 t [0.17]	0.40 t	0.40 t	0.84 t	0.60 t	0.40 t
M 12	1/2	x 13	-	2.00 t [0.34]	0.75 t	4.00 t [0.68]	1.50 t	1.00 t [0.24]	0.75 t	0.75 t	1.57 t	1.12 t	0.75 t
M 16	5/8	x 11	-	4.00 t [0.70]	1.50 t	8.00 t [1.40]	3.00 t	2.12 t [0.50]	1.50 t	1.50 t	3.15 t	2.24 t	1.50 t
M 20	3/4	x 10	7/8 x 9	6.00 t [1.20]	2.30 t	12.00 t [2.40]	4.60 t	3.22 t [0.86]	2.30 t	2.30 t	4.83 t	3.45 t	2.30 t
M 24	1	x 8	-	8.00 t [1.80]	3.20 t	16.00 t [3.60]	6.40 t	4.50 t [1.29]	3.20 t	3.20 t	6.70 t	4.80 t	3.20 t
M 30	1 1/4	x 7	-	12.00 t [3.20]	4.50 t	24.00 t [6.40]	9.00 t	6.30 t [2.30]	4.50 t	4.50 t	9.50 t	6.75 t	4.50 t
M 36	-	-	-	16.00 t [4.60]	7.00 t	32.00 t [9.20]	14.00 t	9.80 t [3.30]	7.00 t	7.00 t	14.70 t	10.50 t	7.00 t

**Specification**

- Ring  
Steel  
German Material No. 1.6541  
- Forged  
- High-strength tempered  
- 100% electromagnetic tensile tested according to EN 1677  
- Bright pink powder coated
- Threaded socket head bolt  
Steel  
- Property class 10.9  
- 100% electromagnetic tensile tested
- Hex key cover plate  
Steel, zinc plated
- *Strength Values of Screws* → page 2127
- RoHS compliant

**On request**

- Additional sizes

**Information**

The bolt of GN 581 safety swivel lifting eye bolts is captively mounted in the ring housing, yet rotates freely, allowing the direction of the load to be adjusted and preventing unintentional loosening or overtightening (as it is possible with DIN 580 lifting eye bolts).

These lifting eye bolts offer a high load carrying capacity and are tested to meet high safety standards in all load directions (safety factor 4).

The nominal values for load capacity in the table are for the most extreme loading conditions listed, and are also clearly marked on the ring.

GN 581 lifting eye bolts comply with Machinery Directive 2006/42/EG and are BG tested.

The integrated RFID transponder is used to clearly identify the lifting gear, e.g. during the prescribed regular inspection.

Type B with hex key allows assembly without the need to use tools: inserting the hex key in the hex socket of the bolt allows the bolt to be turned by hand.

see also...  
• *Safety Swivel Lifting Eye Bolts GN 581.5 (Stainless Steel)* → page 1588

<b>How to order</b>  <b>GN 581-3/4X10-B</b>	1	Thread d <sub>1</sub>
	2	Type

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3.2  
3.3  
3.4  
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