

Metric table



Dimensions in: millimeters - inches

d ₁ Thread	d ₂	h ₁	h ₂	h ₃	h ₄	k ₁	k ₂	k ₃	k ₄	k ₅	l ₁	l ₂	r	A/F ₁	A/F ₂	Tightening torque in Nm	Nominal load (WLL) in metric tons
M 8	24 0.94	87 3.43	75 2.95	40 1.57	35 1.38	12 0.47	52 2.05	34 1.34	75 2.95	45 1.77	11 0.43	30 1.18	32 1.26	13	5	30	0.63
M 10	24 0.94	87 3.43	75 2.95	39 1.54	36 1.42	12 0.47	52 2.05	34 1.34	75 2.95	45 1.77	15 0.59	30 1.18	32 1.26	17	6	60	0.9
M 12	26 1.02	87 3.43	75 2.95	38 1.50	37 1.46	12 0.47	52 2.05	34 1.34	75 2.95	45 1.77	18 0.71	32 1.26	32 1.26	19	8	150	1.35
M 16	30 1.18	99 3.90	85 3.35	39 1.54	46 1.81	13.5 0.53	56 2.20	38 1.50	86 3.39	47 1.85	22 0.87	34.5 1.36	38 1.50	24	10	150	2
M 20	45 1.77	127 5.00	110 4.33	55 2.17	55 2.17	16.5 0.65	82 3.23	54 2.13	113 4.45	64 2.52	32 1.26	50 1.97	48 1.89	30	12	400	3.5
M 24	45 1.77	143 5.63	125 4.92	67 2.64	58 2.28	18 0.71	82 3.23	54 2.13	130 5.12	78 3.07	37 1.46	50 1.97	48 1.89	36	14	760	4.5
M 30	60 2.36	170 6.69	147 5.79	67 2.64	80 3.15	22.5 0.89	103 4.06	65 2.56	151 5.94	80 3.15	49 1.93	60 2.36	67 2.64	46	17	1000	6.7

Specification

- Load ring
Steel
German Material No. 1.6541
- Forged
- High-strength tempered
- 100 % electromagnetic tensile tested according to EN 1677
- Bright pink powder coated finish
- Bracket
Steel
- Forged
- High-strength tempered
- 100 % electromagnetic tensile tested
- Bright pink powder coated finish
- Threaded bolt
Steel
- High-strength tempered
- Delta-Tone® finish
(inorganic zinc flake coating)
- Bushing
Steel, galvanically zinc plated
- RoHS compliant

Information

GN 586.1 safety swivel load rings can be folded and rotated in all directions, carrying the full load in any approved tension direction.

These load rings 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 586.1 safety swivel load rings 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.

This series replaces the previous GN 586 safety swivel load rings for metric sizes.

see also...

- D-Shackles GN 584 → page 1600
- Bow Shackles GN 585 → page 1601

How to order	1 Thread d ₁
GN 586.1-M12	



Dimensions in: metric tons

Mounting method										
	Quantity	1	1	2	2	2	2	2	3 and 4	3 and 4
Angle of inclination	0 to 7°	90°	0 to 7°	90°	0 to 45°	45 to 60°	asymmetric	0 to 45°	45 to 60°	asymmetric
Factor	1	1	2	2	1.4	1	1	2.1	1.5	1
M 8	0.63 t	0.63 t	1.26 t	1.26 t	0.88 t	0.63 t	0.63 t	1.32 t	0.95 t	0.63 t
M 10	0.90 t	0.90 t	1.80 t	1.80 t	1.30 t	0.90 t	0.90 t	1.90 t	1.35 t	0.90 t
M 12	1.35 t	1.35 t	2.70 t	2.70 t	1.90 t	1.35 t	1.35 t	2.84 t	2.00 t	1.35 t
M 16	2.00 t	2.00 t	4.00 t	4.00 t	2.80 t	2.00 t	2.00 t	4.25 t	3.00 t	2.00 t
M 20	3.50 t	3.50 t	7.00 t	7.00 t	4.90 t	3.50 t	3.50 t	7.35 t	5.25 t	3.50 t
M 24	4.50 t	4.50 t	9.00 t	9.00 t	6.30 t	4.50 t	4.50 t	9.50 t	6.75 t	4.50 t
M 30	6.70 t	6.70 t	13.40 t	13.40 t	9.50 t	6.70 t	6.70 t	14.10 t	10.00 t	6.70 t

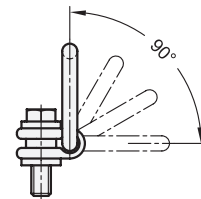
Safety notes

The load capacity table shows the maximum loads in metric tons in relation to the mounting method at an operating temperature of -40 °F to +212 °F (-40 °C to +100 °C). The nominal load capacity refers to the most disadvantageous loading conditions, whereby a safety factor of 4 is taken into account for all values.

The GN 586.1 safety swivel load ring may only be used if it is screwed on in accordance with the minimum screw-in length and set in the tension direction. The screw-on surface has to be plane and at a right angle to the threaded hole.

When firmly mounted, the load ring must rotate freely by 360° and must not rest on edges or other lifting gear, e.g. on crane hooks. Swivel load rings are not suitable for permanent rotary movements under load.

The operating instruction contains further guidelines and is included with every swivel load ring (see also at www.jwwinco.com/service).



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