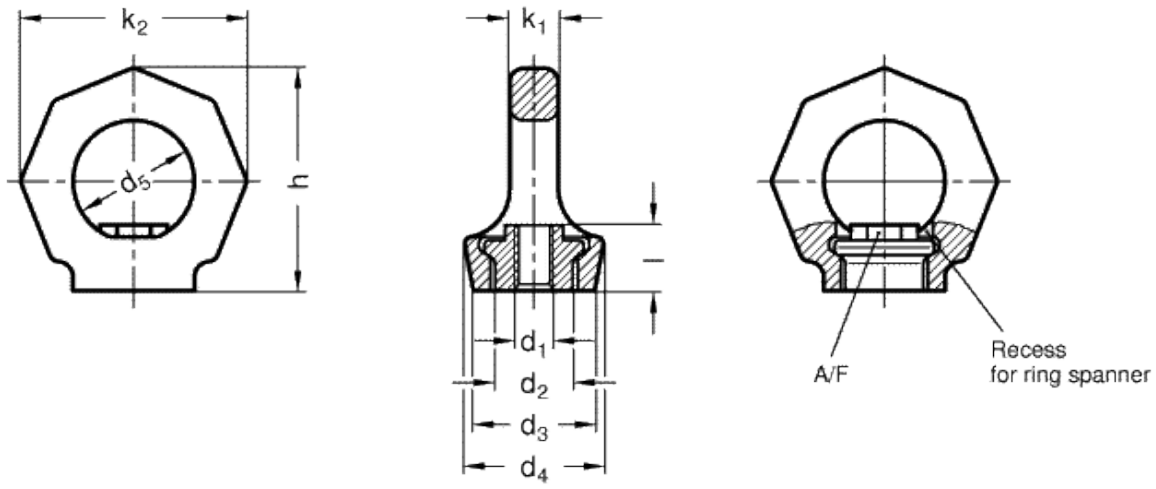
GN 583

Lifting eye nuts (rotating)



technical informations

Body

High-tensile forged tempered steel with pink plastic surface coating, 100% electro-magnetic tensile tested to EN 1677.

Nut

Steel, class 10.9 (tensile strength 1000 N/mm²).

Features

Lifting eye nuts GN 583 are mounted in rotating bearings, allowing the direction of the force action to be adjusted and preventing inadvertent loosening or overturning (as potentially possible in lifting eye nuts DIN 582).

Lifting eye nuts GN 583 offer a high load carrying capacity and they are tested to meet safety standards (safety factor 4).

The rated load carrying capacity listed in the above table is clearly marked on the ring. It applies to the most unfavourable load application of the load types listed opposite.

Lifting eye nuts GN 583 comply with Mechanical Engineering Directive 98 / 37 / CE and are BG tested.

The hexagon socket nut cannot be removed from the ring.

Application and assembly information

The loads given in brackets refer to the load capacity of the corresponding lifting eye nut DIN 582. If such a value is not indicated the use of the lifting eye nuts DIN 582 is not permitted!

The bolt-on surface for the lifting eye nuts GN 583 must be plane and at a right angle to the threaded borehole.

Before applying the load, turn the lifting eye nut in the direction of the force. The lifting eye nut is not suitable for frequent rotation cycles under load.

The specified load values apply only in connection with threaded bolts of steel grade > 10.9 if the bolt is turned in over its entire length l. These load values also apply only for a minimum screw-in length of 1.5 × nominal thread diameter in steel with a minimum tensile strength of 37 kp/mm2, at an ambient temperature of – 40 °C to + 100 °C.

Load-bearing capacity under different conditions upon request.
Operating instructions with more details and specifications are included with every delivery.

Method of mounting	G_1	G_2	$2xG_1$	$2xG_2$	G_2		G_2	G_2		G_2
Number	1	1	2	2	2	2	2	3 and 4	3 and 4	3 and 4
Angles of inclination	0°	90°	0°	90°	0 ÷ 45°	45 ÷ 60°	asymm.	0 ÷ 45°	45 ÷ 60°	asymm.
Factor	1	1	2	2	1,4	1	1	2,1	1,5	1
M 8	1,00 [0,14]	0,40 t	2,00 [0,28]	0,80 t	0,56 [0,10]	0,40 t	0,40 t	0,84 t	0,60 t	0,40 t
M 10	1,00 [0,23]	0,40 t	2,00 [0,46]	0,80 t	0,56 [0,17]	0,40 t	0,40 t	0,84 t	0,60 t	0,40 t
M 12	2,00 [0,34]	0,75 t	4,00 [0,68]	1,50 t	1,00 [0,24]	0,75 t	0,75 t	1,60 t	1,12 t	0,75 t
M 16	4,00 [0,70]	1,50 t	8,00 [1,60]	3,00 t	2,10 [0,50]	1,50 t	1,50 t	3,15 t	2,25 t	1,50 t
M 20	6,00 [1,20]	2,30 t	12,00 [2,40]	4,60 t	3,22 [0,86]	2,30 t	2,30 t	4,83 t	3,45 t	2,30 t
M 24	8,00 [1,80]	3,20 t	16,00 [3,60]	6,40 t	4,48 [1,29]	3,20 t	3,20 t	6,70 t	4,80 t	3,20 t
M 30	12,00 [3,20]	4,50 t	24,00 [6,40]	9,00 t	6,30 [2,30]	4,50 t	4,50 t	9,40 t	6,70 t	4,50 t

Standard Elements	Main dimensions										Nominal load	Weight
Description	d_1	d_2	d_3	d_4	d_5	h	k_1	k_2	Length l	A/F		g
GN 583-M8	M8	16	25	28	25	45	8.5	47	14	12	0.4 t [4 kN]	101
GN 583-M10	M10	16	25	28	25	45	8.5	47	14	12	0.4 t [4 kN]	110
GN 583-M12	M12	20	30	34	30	55	10	56	17	14	0.75 t [7.5 kN]	160
GN 583-M16	M16	22	35	40	35	64	14	65	19	19	1.5 t [15 kN]	150
GN 583-M20	M20	29	40	50	40	74	16	75	23	24	2.3 t [23 kN]	420
GN 583-M24	M24	35	50	60	48	90	19	90	28	30	3.2 t [32 kN]	770
GN 583-M30	M30	44	60	75	60	112	24	112	35	36	4.5 t [45 kN]	1480