



Specification

- Magnet materials
 - Hard ferrite **HF**
Temperature resistant up to 392 °F (200 °C)
 - NdFeB **ND**
Neodymium, iron, boron
Temperature resistant up to 176 °F (80 °C)
- Housing
Steel, zinc plated
- **RoHS compliant**



Information

GN 50.3 retaining magnets, in combination with the steel housing and the plastic ring, form a system that shields and strengthens the magnet for optimal transmission of the magnetic flux onto the magnetic surface.

see also...

- *More Information on Retaining Magnets* → page 1990
- *Retaining Magnets GN 50.2 (with Tapped Blind Hole)* → page 1996
- *Retaining Magnets GN 51.3 (with Threaded Stud)* → page 2010
- *Retaining Magnets GN 52.5 (with Threaded Stud)* → page 2023

Accessory

- Magnet holding disks GN 70 → page 2029
- Self-adhesive disks GN 70.1 → page 2030
- Rubber caps GN 70.2 → page 2031

How to order	1 Magnet material
GN 50.3-ND-16-M6	2 Diameter d_1
	3 Thread d_2

Metric table

Dimensions in: millimeters - inches

d ₁	Material HF			Material ND	Nominal magnetic forces			
	d ₂ Thread	h	Length l		d ₂ Thread	h	Length l	HF
6 ±0.1 0.236 ±0.004	-	-	-	M 3	4.5 ±0.1 0.177 ±0.004	7 0.28	-	5 N 1.12 lbf
8 ±0.1 0.315 ±0.004	-	-	-	M 4	4.5 ±0.1 0.177 ±0.004	8 0.31	-	13 N 2.92 lbf
10 ±0.1 0.394 ±0.004	M 3	4.5 ^{+0.2} / _{-0.1} 0.177 ^{+0.008} / _{-0.004}	7 0.28	M 3	4.5 ±0.1 0.177 ±0.004	7 0.28	4 N 0.90 lbf	25 N 5.62 lbf
10 ±0.1 0.394 ±0.004	-	-	-	M 4	4.5 ±0.1 0.177 ±0.004	8 0.31	-	25 N 5.62 lbf
13 ±0.1 0.512 ±0.004	M 3	4.5 ^{+0.2} / _{-0.1} 0.177 ^{+0.008} / _{-0.004}	7 0.28	M 5	4.5 ±0.1 0.177 ±0.004	8 0.31	10 N 2.25 lbf	60 N 13.49 lbf
16 ±0.1 0.630 ±0.004	M 3	4.5 ^{+0.2} / _{-0.1} 0.177 ^{+0.008} / _{-0.004}	7 0.28	M 4	4.5 ±0.1 0.177 ±0.004	8 0.31	18 N 4.05 lbf	85 N 19.11 lbf
16 ±0.1 0.630 ±0.004	M 4	4.5 ^{+0.2} / _{-0.1} 0.177 ^{+0.008} / _{-0.004}	6 0.24	M 6	4.5 ±0.1 0.177 ±0.004	8 0.31	18 N 4.05 lbf	95 N 21.36 lbf
20 ±0.1 0.787 ±0.004	M 3	6 ^{+0.2} / _{-0.1} 0.236 ^{+0.008} / _{-0.004}	7 0.28	M 6	6 ±0.1 0.236 ±0.004	10 0.39	30 N 6.74 lbf	140 N 31.47 lbf
25 ±0.1 0.984 ±0.004	M 4	7 ^{+0.3} / _{-0.2} 0.276 ^{+0.012} / _{-0.008}	8 0.31	M 6	7 ±0.2 0.276 ±0.008	10 0.39	40 N 8.99 lbf	200 N 44.96 lbf
25 ±0.1 0.984 ±0.004	M 6	7 ^{+0.3} / _{-0.2} 0.276 ^{+0.012} / _{-0.008}	20 0.79	-	-	-	40 N 8.99 lbf	-
32 ±0.1 1.260 ±0.004	M 4	7 ^{+0.3} / _{-0.2} 0.276 ^{+0.012} / _{-0.008}	8 0.31	M 6	7 ±0.2 0.276 ±0.008	10 0.39	80 N 17.98 lbf	350 N 78.68 lbf
32 ±0.1 1.260 ±0.004	M 6	7 ^{+0.3} / _{-0.2} 0.276 ^{+0.012} / _{-0.008}	12 0.47	-	-	-	80 N 17.98 lbf	-
32 ±0.1 1.260 ±0.004	M 8	7 ^{+0.3} / _{-0.2} 0.276 ^{+0.012} / _{-0.008}	10 0.39	-	-	-	80 N 17.98 lbf	-
40 ±0.1 1.575 ±0.004	-	-	-	M 8	8 ±0.2 0.315 ±0.008	12 0.47	-	670 N 151 lbf
47 ^{+0.2} / _{-0.1} 1.850 ^{+0.008} / _{-0.004}	M 6	9 ^{+0.5} / _{-0.2} 0.354 ^{+0.02} / _{-0.008}	8 0.31	M 8	9.2 ±0.2 0.362 ±0.008	13 0.51	180 N 40.47 lbf	790 N 178 lbf
57 ^{+0.2} / _{-0.1} 2.244 ^{+0.008} / _{-0.004}	M 6	10.5 ^{+0.5} / _{-0.2} 0.413 ^{+0.02} / _{-0.008}	8 0.31	-	-	-	280 N 62.95 lbf	-
63 ^{+0.3} / _{-0.1} 2.480 ^{+0.012} / _{-0.004}	M 6	14 ^{+0.5} / _{-0.2} 0.551 ^{+0.02} / _{-0.008}	15 0.59	-	-	-	350 N 78.68 lbf	-
80 ^{+0.3} / _{-0.1} 3.150 ^{+0.012} / _{-0.004}	M 8	10 ^{+0.5} / _{-0.2} 0.394 ^{+0.02} / _{-0.008}	13 0.51	-	-	-	600 N 135 lbf	-

3.1
3.2
3.3
3.4
3.5
3.6
3.7
3.8
3.9
3.10