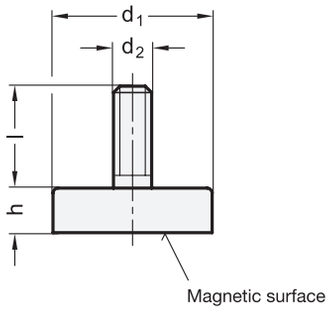
GN 50.3 | Retaining Magnets

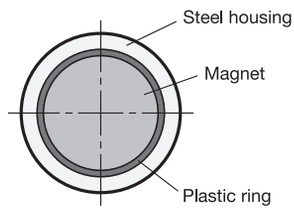
Steel, Disk-Shaped, with Threaded Stud

JW WINCO® A Ganter Company

Metric



View of magnetic surface



Specification

- Housing
  Steel, zinc plated
- 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)
- RoHS compliant

Accessory

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

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*

How to order

GN 50.3-ND-16-M6

1	Magnet material
2	Diameter d_1
3	Thread d_2

Metric table

Dimensions in: millimeters - *inches*

	Material **HF**			Material **ND**			Nominal magnetic forces	
d_1	**d_2** Thread	**h**	Length **l**	**d_2** Thread	**h**	Length **l**	**HF**	**ND**
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*	-