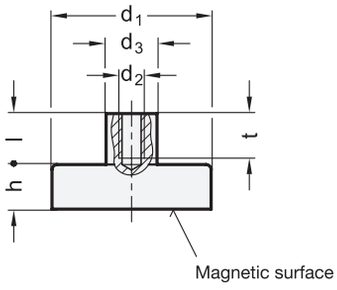
GN 50.2 | Retaining Magnets

Steel, Disk-Shaped, with Tapped Blind Hole

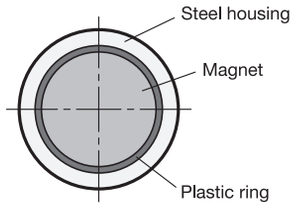
JW WINCO® A Ganter Company

Metric





View of magnetic surface



Specification

- Housing
  Steel, zinc plated
- Magnet materials
  - Hard ferrite **HF**
    Temperature resistant up to 392 °F (200 °C)
  - SmCo **SC**
    Samarium, cobalt
    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 50.2 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*

How to order

1 2 3 4

GN 50.2-HF-20-6-M3

1	**Magnet material**
2	**Diameter d_1**
3	**Height h**
4	**Thread d_2**

Metric table

Dimensions in: millimeters - *inches*

	Tolerances		Material **HF**					Material **SC / ND**					Nominal magnetic forces		
d_1	HF	SC / ND	h	d_2 Thread	d_3	Length l	t	h	d_2 Thread	d_3	Length l	t	HF	SC	ND
6 *0.24*	-	±0.1	-	-	-	-	-	4.5 ±0.1 *0.18 ±0.004*	M 3	6 ±0.1 *0.24 ±0.004*	7 *0.28*	6 *0.24*	-	5 N *1 lbf*	5 N *1 lbf*
8 *0.31*	-	±0.1	-	-	-	-	-	4.5 ±0.1 *0.18 ±0.004*	M 3	6 ±0.1 *0.24 ±0.004*	7 *0.28*	6 *0.24*	-	11 N *3 lbf*	13 N *3 lbf*
10 *0.39*	±0.1	±0.1	4.5 $^{+0.2}_{-0.1}$ *0.18 $^{+0.008}_{-0.004}$*	M 3	6 ±0.1 *0.24 ±0.004*	7 *0.28*	5 *0.20*	4.5 ±0.1 *0.18 ±0.004*	M 3	6 ±0.1 *0.24 ±0.004*	7 *0.28*	6 *0.24*	4 N *1 lbf*	20 N *5 lbf*	25 N *6 lbf*
13 *0.51*	±0.1	±0.1	4.5 $^{+0.2}_{-0.1}$ *0.18 $^{+0.008}_{-0.004}$*	M 3	6 ±0.1 *0.24 ±0.004*	7 *0.28*	5 *0.20*	4.5 ±0.1 *0.18 ±0.004*	M 3	6 ±0.1 *0.24 ±0.004*	7 *0.28*	6 *0.24*	10 N *2 lbf*	40 N *9 lbf*	60 N *14 lbf*
16 *0.63*	±0.1	±0.1	4.5 $^{+0.2}_{-0.1}$ *0.18 $^{+0.008}_{-0.004}$*	M 3	6 ±0.1 *0.24 ±0.004*	7 *0.28*	5 *0.20*	4.5 ±0.1 *0.18 ±0.004*	M 4	6 ±0.1 *0.24 ±0.004*	7 *0.28*	6 *0.24*	18 N *4 lbf*	60 N *14lbf*	95 N *21 lbf*
20 *0.79*	±0.1	±0.1	6 $^{+0.2}_{-0.1}$ *0.24 $^{+0.008}_{-0.004}$*	M 3	6 ±0.1 *0.24 ±0.004*	7 *0.28*	5 *0.20*	6 ±0.1 *0.24 ±0.004*	M 4	8 ±0.2 *0.31 ±0.008*	7 *0.28*	7 *0.28*	30 N *7 lbf*	90 N *20 lbf*	140 N *32 lbf*
25 *0.98*	±0.1	±0.1	7 $^{+0.3}_{-0.2}$ *0.28 $^{+0.012}_{-0.008}$*	M 4	8 ±0.2 *0.31 ±0.008*	8 *0.31*	7 *0.28*	7 ±0.2 *0.28 ±0.008*	M 4	8 ±0.2 *0.31 ±0.008*	7 *0.28*	7 *0.28*	40 N *9 lbf*	150 N *34 lbf*	200 N *45 lbf*
32 *1.26*	±0.1	±0.1	7 $^{+0.3}_{-0.2}$ *0.28 $^{+0.012}_{-0.008}$*	M 4	8 ±0.2 *0.31 ±0.008*	8 *0.31*	7 *0.28*	7 ±0.2 *0.28 ±0.008*	M 5	10 ±0.2 *0.39 ±0.008*	8.5 *0.33*	8 *0.31*	80 N *18 lbf*	220 N *50 lbf*	350 N *79 lbf*
36 *1.42*	+0.2/-0.1	-	7.7 $^{+0.3}_{-0.2}$ *0.30 $^{+0.012}_{-0.008}$*	M 4	8 ±0.2 *0.31 ±0.008*	8.3 *0.33*	7 *0.28*	-	-	-	-	-	100 N *23 lbf*	-	-
40 *1.57*	+0.2/-0.1	-	8 $^{+0.3}_{-0.2}$ *0.31 $^{+0.012}_{-0.008}$*	M 4	8 ±0.2 *0.31 ±0.008*	8.5 *0.33*	7 *0.28*	-	-	-	-	-	125 N *28 lbf*	-	-
40 *1.57*	+0.2/-0.1	±0.1	8 $^{+0.3}_{-0.2}$ *0.31 $^{+0.012}_{-0.008}$*	M 5	10 ±0.2 *0.39 ±0.008*	10 *0.39*	8 *0.31*	8 ±0.2 *0.31 ±0.008*	M 6	10 ±0.2 *0.39 ±0.008*	10 *0.39*	8 *0.31*	125 N *28 lbf*	-	670 N *151 lbf*
47 *1.85*	+0.2/-0.1	-	9 $^{+0.4}_{-0.2}$ *0.35 $^{+0.016}_{-0.008}$*	M 4	8 ±0.2 *0.31 ±0.008*	8 *0.31*	7 *0.28*	-	-	-	-	-	180 N *41 lbf*	-	-
47 *1.85*	+0.2/-0.1	±0.2	9 $^{+0.4}_{-0.2}$ *0.35 $^{+0.016}_{-0.008}$*	M 6	12 ±0.2 *0.47 ±0.008*	11.5 *0.45*	10 *0.39*	9.2 ±0.2 *0.36 ±0.008*	M 6	12 ±0.2 *0.47 ±0.008*	11.3 *0.44*	10 *0.39*	180 N *41 lbf*	-	790 N *178 lbf*
50 *1.97*	+0.2/-0.1	-	10 $^{+0.4}_{-0.2}$ *0.39 $^{+0.016}_{-0.008}$*	M 4	8 ±0.2 *0.31 ±0.008*	8.5 *0.33*	7 *0.28*	-	-	-	-	-	220 N *50 lbf*	-	-
50 *1.97*	+0.2/-0.1	±0.1	10 $^{+0.4}_{-0.2}$ *0.39 $^{+0.016}_{-0.008}$*	M 6	12 ±0.2 *0.47 ±0.008*	12 *0.47*	10 *0.39*	10 ±0.2 *0.39 ±0.008*	M 8	15 ±0.2 *0.59 ±0.008*	12 *0.47*	10 *0.39*	220 N *50 lbf*	-	1000 N *225 lbf*
57 *2.24*	+0.2/-0.1	-	10.5 $^{+0.5}_{-0.2}$ *0.41 $^{+0.02}_{-0.008}$*	M 4	8 ±0.2 *0.31 ±0.008*	8 *0.31*	7 *0.28*	-	-	-	-	-	280 N *63 lbf*	-	-
57 *2.24*	+0.2/-0.1	-	10.5 $^{+0.5}_{-0.2}$ *0.41 $^{+0.02}_{-0.008}$*	M 6	12 ±0.2 *0.47 ±0.008*	12 *0.47*	10 *0.39*	-	-	-	-	-	280 N *63 lbf*	-	-
63 *2.48*	+0.3/-0.1	-	14 $^{+0.5}_{-0.2}$ *0.55 $^{+0.02}_{-0.008}$*	M 4	8 ±0.2 *0.31 ±0.008*	8 *0.31*	7 *0.28*	-	-	-	-	-	350 N *79 lbf*	-	-
63 *2.48*	+0.3/-0.1	-	14 $^{+0.5}_{-0.2}$ *0.55 $^{+0.02}_{-0.008}$*	M 8	15 ±0.2 *0.59 ±0.008*	16 *0.63*	10 *0.39*	-	-	-	-	-	350 N *79 lbf*	-	-
80 *3.15*	+0.3/-0.1	-	10 $^{+0.5}_{-0.2}$ *0.39 $^{+0.02}_{-0.008}$*	M 6	12 ±0.2 *0.47 ±0.008*	11.5 *0.45*	10 *0.39*	-	-	-	-	-	500 N *112 lbf*	-	-
80 *3.15*	+0.3/-0.1	-	18 $^{+0.5}_{-0.2}$ *0.71 $^{+0.02}_{-0.008}$*	M 6	12 ±0.2 *0.47 ±0.008*	10.5 *0.41*	10 *0.39*	-	-	-	-	-	600 N *135 lbf*	-	-
80 *3.15*	+0.3/-0.1	-	18 $^{+0.5}_{-0.2}$ *0.71 $^{+0.02}_{-0.008}$*	M 10	20 ±0.2 *0.79 ±0.008*	16 *0.63*	15 *0.59*	-	-	-	-	-	600 N *135 lbf*	-	-
100 *3.94*	+0.5/-0.1	-	22 $^{+0.5}_{-0.2}$ *0.87 $^{+0.02}_{-0.008}$*	M 12	22 ±0.2 *0.87 ±0.008*	21 *0.83*	18 *0.71*	-	-	-	-	-	900 N *202 lbf*	-	-
125 *4.92*	+0.5/-0.1	-	26 $^{+0.5}_{-0.2}$ *1.02 $^{+0.02}_{-0.008}$*	M 14	25 ±0.2 *0.98 ±0.008*	24 *0.94*	20 *0.79*	-	-	-	-	-	1300 N *292 lbf*	-	-

WARNING: Cancer and Reproductive Harm — www.P65Warnings.ca.gov