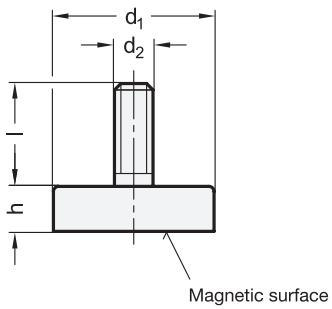
Retaining Magnets

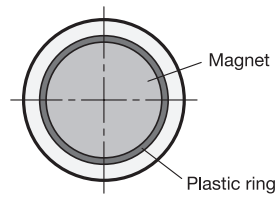
Hard Ferrite / Neodymium, Iron, Boron, Steel Housing, with Threaded Stud

JW WINCO® A Ganter Company

Metric



View of magnetic surface



Specification

Magnet materials

- Hard ferrite — **HF**
  Operating temperature up to 392 °F (200 °C)
- NdFeB — **ND**
  Neodymium, iron, boron
  Operating temperature up to 176 °F (80 °C)
- NdFeB — **NDT**
  Neodymium, iron, boron
  Operating temperature up to 302 °F (150 °C)

Housing

Steel, zinc plated

RoHS

Retaining magnets GN 50.3, 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...	Page
GN 50.2 Retaining Magnets (with Tapped Blind Hole)	QVX
GN 51.3 Retaining Magnets (with Threaded Stud)	QVX
GN 52.5 Retaining Magnets (Stainless Steel Housing, with Threaded Stud)	QVX

Technical Information

More Information on Retaining Magnets	QVX

Accessory

GN 70 Holding Disks	QVX
GN 70.1 Self-Adhesive Disks	QVX
GN 70.2 Rubber Caps	QVX

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

d_1	Material **HF**			Material **ND**			Material **NDT**			Nominal magnetic forces		
	d_2	h	Length l	d_2	h	Length l	d_2	h	Length l	**HF**	**ND**	**NDT**
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	M 4	4.5 ±0.1 0.18 ±0.004	8 0.31	-	25 N 5.62 lbf	33 N 7.42 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	-	-	-	-	-	-	10 N 2.25 lbf	-	-
13 ±0.1 0.512 ±0.004	-	-	-	M 5	4.5 ±0.1 0.177 ±0.004	8 0.31	M 5	4.5 ±0.1 0.18 ±0.004	8 0.31	-	60 N 13.49 lbf	75 N 16.86 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	-	-	-	-	-	-	18 N 4.05 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 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 6	4.5 ±0.1 0.177 ±0.004	8 0.31	M 6	4.5 ±0.1 0.18 ±0.004	8 0.31	-	95 N 21.36 lbf	110 N 24.73 lbf
20 ±0.1 0.787 ±0.004	M 3	$6^{+0.2}_{-0.1}$ $0.236^{+0.008}_{-0.004}$	7 0.28	-	-	-	-	-	-	30 N 6.74 lbf	-	-
20 ±0.1 0.787 ±0.004	-	-	-	M 6	6 ±0.1 0.236 ±0.004	10 0.39	M 6	6 ±0.1 0.24 ±0.004	10 0.39	-	140 N 31.47 lbf	172 N 38.67 lbf
25 ±0.1 0.984 ±0.004	M 4	$7^{+0.3}_{-0.2}$ $0.276^{+0.012}_{-0.008}$	8 0.31	-	-	-	-	-	-	40 N 8.99 lbf	-	-
25 ±0.1 0.984 ±0.004	M 6	$7^{+0.3}_{-0.2}$ $0.276^{+0.012}_{-0.008}$	20 0.79	M 6	7 ±0.2 0.276 ±0.008	10 0.39	M 6	7 ±0.2 0.28 ±0.008	10 0.39	40 N 8.99 lbf	200 N 44.96 lbf	233 N 52.38 lbf
32 ±0.1 1.260 ±0.004	M 4	$7^{+0.3}_{-0.2}$ $0.276^{+0.012}_{-0.008}$	8 0.31	-	-	-	-	-	-	80 N 17.98 lbf	-	-
32 ±0.1 1.260 ±0.004	M 6	$7^{+0.3}_{-0.2}$ $0.276^{+0.012}_{-0.008}$	12 0.47	M 6	7 ±0.2 0.276 ±0.008	10 0.39	M 6	7 ±0.2 0.28 ±0.008	10 0.39	80 N 17.98 lbf	350 N 78.68 lbf	400 N 89.92 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	-	-	-	-	-	-	180 N 40.47 lbf	-	-
$47^{+0.2}_{-0.1}$ $1.850^{+0.008}_{-0.004}$	-	-	-	M 8	9.2 ±0.2 0.362 ±0.008	13 0.51	-	-	-	-	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	-	-