



Metric table

Dimensions in: millimeters - inches

d ₁	d ₂ Thread	d ₃	h	t	Nominal magnetic forces
10 ±0.1 0.394 ±0.004	M 3	4.5 0.18	4.5 ±0.1 0.177 ±0.004	1.5 0.06	19 N 4.27 lbf
13 ±0.1 0.512 ±0.004	M 3	4.5 0.18	4.5 ±0.1 0.177 ±0.004	1.5 0.06	40 N 8.99 lbf
16 ±0.1 0.630 ±0.004	M 3	6 0.24	4.5 ±0.1 0.177 ±0.004	1.5 0.06	75 N 16.86 lbf
20 ±0.1 0.787 ±0.004	M 4	6 0.24	6 ±0.1 0.236 ±0.004	2.5 0.10	105 N 23.60 lbf
25 ±0.1 0.984 ±0.004	M 4	4.5 0.18	7 ±0.2 0.276 ±0.008	3 0.12	160 N 35.97 lbf
32 ±0.1 1.260 ±0.004	M 5	5.5 0.22	7 ±0.2 0.276 ±0.008	3 0.12	330 N 74.19 lbf
40 ±0.1 1.575 ±0.004	M 5	10.5 0.41	8 ±0.2 0.315 ±0.008	6 0.24	500 N 112 lbf
47 ^{+0.2} / _{-0.1} 1.850 ^{+0.008} / _{-0.004}	M 8	6.8 0.27	9.2 ^{+0.2} / _{-0.3} 0.362 ^{+0.008} / _{-0.012}	6 0.24	740 N 166 lbf
50 ±0.1 1.969 ±0.004	M 8	10.5 0.41	10 ±0.2 0.394 ±0.008	5.5 0.22	800 N 180 lbf
63 ±0.1 2.480 ±0.004	M 10	11.7 0.46	14 ±0.2 0.551 ±0.008	8.5 0.33	1100 N 247 lbf
75 ^{-0.3} / _{-0.5} 2.953 ^{-0.012} / _{-0.020}	M 10	11.7 0.46	15 ±0.2 0.591 ±0.008	8.5 0.33	1750 N 393 lbf

Specification

- Housing
Steel, zinc plated
- Magnet material
NdFeB **ND**
Neodymium, iron, boron
Temperature resistant up to 176 °F (80° C)
- Plastic cover
Technopolymer (Polyamide PA)
- Plastic Characteristics → page 2135
- 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 50.5 retaining magnets, in combination with the steel housing and the plastic ring or plastic cover, form a system that shields and strengthens the magnet for optimal transmission of the magnetic flux onto the magnetic surface.

For diameter d₁ ≥ 50 mm, the magnetic surface is provided with a full-surface plastic cover.

To ensure that the magnetic properties are not negatively impaired, the mounting screws should be made of a non-magnetic material, such as stainless steel, brass or plastic.

see also...

- More Information on Retaining Magnets → page 1990
- Retaining Magnets GN 51.5 (with Tapped Hole) → page 2006

<p>How to order</p> <p>GN 50.5-ND-40</p>	1	Magnet material
	2	Diameter d ₁