



**Specification**

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



**Information**

- GN 50.1 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.
- These retaining magnets can be attached simply and securely by side clamping, e.g. with a GN 913.2 set screw.
- see also...**
- *More Information on Retaining Magnets* → page 1990
  - *Retaining Magnets GN 52.1 (without Thread)* → page 2019
  - *Raw Magnets GN 55.2 (without Hole)* → page 2028
  - *Retaining Magnets GN 50.3 (with Threaded Stud)* → page 1994

**HF**

**SC**

**ND**

**Accessory**

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

<p>How to order</p> <p><b>GN 50.1-SC-13-4.5</b></p>	1	Magnet material
	2	Diameter d
	3	Height h

**Universal table**

Dimensions in: millimeters - inches

d	Tolerances		h	Tolerances		Nominal magnetic forces		
	HF	SC / ND		HF	SC / ND	HF	SC	ND
6 0.24	-	±0.1	4.5 0.18	-	±0.1	-	5 N 1.12 lbf	5 N 1.12 lbf
8 0.31	-	±0.1	4.5 0.18	-	±0.1	-	11 N 2.47 lbf	13 N 2.92 lbf
10 0.39	±0.1	±0.1	4.5 0.18	+0.2/-0.1	±0.1	4 N 0.90 lbf	20 N 4.50 lbf	25 N 5.62 lbf
13 0.51	±0.1	±0.1	4.5 0.18	+0.2/-0.1	±0.1	10 N 2.25 lbf	40 N 8.99 lbf	60 N 13.49 lbf
16 0.63	±0.1	±0.1	4.5 0.18	+0.2/-0.1	±0.1	18 N 4.05 lbf	60 N 13.49 lbf	95 N 21.36 lbf
20 0.79	-	±0.1	3.5 0.14	-	±0.1	-	-	110 N 24.73 lbf
20 0.79	±0.1	±0.1	6 0.24	+0.2/-0.1	±0.1	30 N 6.74 lbf	90 N 20.23 lbf	140 N 31.47 lbf
25 0.98	±0.1	±0.1	7 0.28	+0.3/-0.2	±0.2	40 N 8.99 lbf	150 N 33.72 lbf	200 N 44.96 lbf
32 1.26	±0.1	±0.1	7 0.28	+0.3/-0.2	±0.2	80 N 17.98 lbf	220 N 49.46 lbf	350 N 78.68 lbf
36 1.42	+0.2/-0.1	-	7.7 0.30	+0.3/-0.2	-	100 N 22.48 lbf	-	-
40 1.57	+0.2/-0.1	-	8 0.31	+0.4/-0.2	-	125 N 28.10 lbf	-	-
47 1.85	+0.2/-0.1	-	9 0.35	+0.5/-0.2	-	180 N 40.47 lbf	-	-
50 1.97	+0.2/-0.1	-	10 0.39	+0.5/-0.2	-	220 N 49.46 lbf	-	-
57 2.24	+0.2/-0.1	-	10.5 0.41	+0.5/-0.2	-	280 N 62.95 lbf	-	-
63 2.48	+0.3/-0.1	-	14 0.55	+0.5/-0.2	-	350 N 78.68 lbf	-	-
80 3.15	+0.3/-0.1	-	18 0.71	+0.5/-0.2	-	600 N 135 lbf	-	-
100 3.94	+0.5/-0.1	-	22 0.87	+0.5/-0.2	-	900 N 202 lbf	-	-
125 4.92	+0.5/-0.1	-	26 1.02	+0.5/-0.2	-	1300 N 292 lbf	-	-

3.1  
3.2  
3.3  
3.4  
3.5  
3.6  
3.7  
3.8  
3.9  
3.10