



**Specification**

- Housing  
Steel, zinc plated
- Magnet materials
  - Hard ferrite  
Temperature resistant up to 392 °F (200 °C)
  - NdFeB  
Neodymium, iron, boron  
Temperature resistant up to 176 °F (80 °C)
  - SmCo  
Samarium, cobalt  
Temperature resistant up to 536 °F (280 °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 50.4 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.

**HF**

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.

**ND**

see also...

- More Information on Retaining Magnets → page 1990
- Retaining Magnets GN 50.45 (Stainless Steel, with Plain Hole) → page 2003
- Raw Magnets GN 55.1 (with Plain Hole) → page 2027
- Retaining Magnets GN 51.4 (Steel, with Plain Hole, with Rubber Jacket) → page 2007

**SC**

**How to order**

**GN 50.4-SC-40-8-5.5**

1	Magnet material
2	Diameter d <sub>1</sub>
3	Height h
4	Bore d <sub>2</sub> (Bore d <sub>3</sub> )

**Metric table**

Dimensions in: millimeters - inches

d <sub>1</sub>	Tolerances		h	Tolerances			d <sub>2</sub>		d <sub>3</sub>	d <sub>4</sub>	d <sub>5</sub>		t	Nominal magnetic forces			
	HF	ND / SC		HF	ND	SC	HF	ND / SC			HF	HF		ND / SC	HF	HF	HF
10 0.39	-	±0.1	4.5 0.18	-	±0.1	-	-	2.6 0.10	-	-	5.2 0.20	-	-	-	19 N 4.27 lbf	-	-
13 0.51	-	±0.1	4.5 0.18	-	±0.1	-	-	3.5 0.14	-	-	6.6 0.26	-	-	-	40 N 8.99 lbf	-	-
16 0.63	±0.1	±0.1	4.5 0.18	+0.2/-0.1	±0.1	±0.1	3.5 0.14	3.5 0.14	-	7 0.28	6.6 0.26	-	-	14 N 3.15 lbf	75 N 16.86 lbf	57 N 12.81 lbf	
20 0.79	±0.1	±0.1	6 0.24	+0.2/-0.1	±0.1	±0.1	4.3 0.17	4.5 0.18	-	10 0.39	9.3 0.34	-	-	27 N 6.07 lbf	105 N 23.60 lbf	81 N 18.21 lbf	
25 0.98	±0.1	±0.1	7 0.28	+0.3/-0.2	±0.2	±0.1	5.5 0.22	4.5 0.18	-	12 0.47	9 0.35	-	-	36 N 8.09 lbf	160 N 35.97 lbf	105 N 23.60 lbf	
32 1.26	±0.1	±0.1	7 0.28	+0.3/-0.2	±0.2	±0.1	5.5 0.22	5.5 0.22	-	12 0.47	11 0.43	-	-	72 N 16.19 lbf	310 N 69.69 lbf	235 N 52.83 lbf	
40 1.57	+0.2/-0.1	±0.1	8 0.31	+0.4/-0.2	±0.2	±0.1	5.5 0.22	5.5 0.22	-	13 0.51	10.3 0.41	-	-	90 N 20.23 lbf	500 N 112 lbf	540 N 121 lbf	
47 1.85	-	+0.2/-0.1	9.2 0.36	-	±0.3	-	-	8.5 0.33	-	-	17.3 0.68	-	-	-	740 N 166 lbf	-	-
50 1.97	+0.2/-0.1	-	10 0.39	+0.5/-0.2	-	-	-	-	8.5 0.33	-	-	22 0.87	8.5 0.33	180 N 40.47 lbf	-	-	
57 2.24	+0.2/-0.1	-	11 0.43	+0.5/-0.2	-	-	-	-	6.5 0.26	-	-	24 0.94	9 0.35	230 N 51.71 lbf	-	-	
63 2.48	+0.3/-0.1	-	14 0.55	+0.5/-0.2	-	-	-	-	6.5 0.26	-	-	24 0.94	12 0.47	290 N 65.19 lbf	-	-	
80 3.15	+0.3/-0.1	-	10 0.39	+0.5/-0.2	-	-	-	-	6.5 0.26	-	-	32 1.26	8 0.31	450 N 101 lbf	-	-	
80 3.15	+0.3/-0.1	-	18 0.71	+0.5/-0.2	-	-	-	-	6.5 0.26	-	-	11.5 0.45	15 0.59	540 N 121 lbf	-	-	
83 3.27	+0.3/-0.1	-	18 0.71	+0.5/-0.2	-	-	-	-	10.5 0.41	-	-	32 1.26	15 0.59	600 N 135 lbf	-	-	
100 3.94	+0.5/-0.1	-	22 0.87	+0.5/-0.2	-	-	-	-	10.5 0.41	-	-	34 1.34	18 0.71	680 N 153 lbf	-	-	

3.1  
3.2  
3.3  
3.4  
3.5  
3.6  
3.7  
3.8  
3.9  
3.10