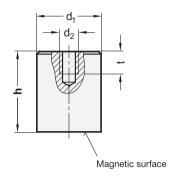
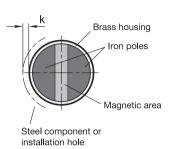
Retaining Magnets

Samarium, Cobalt (SmCo) / Neodymium, Iron, Boron (NdFeB), Housing Brass, with Fitting Tolerance





View of magnetic surface





Metric table

2	Dimensions in: millimeter					
d ₁ h6	d_2	h	k*	t	Nominal magnetic forces	
					SC	ND
6	M 3	20 ±0.2	1.5	5	8 N	10 N
<i>0.2362</i>		0.787 ±0.008	0.06	0.20	1.80 lbf	2.25 lbf
8	M 3	20 ±0.2	1.5	5	22 N	25 N
0.3150		0.787 ±0.008	0.06	0.20	4.95 lbf	5.62 lbf
10	M 4	20 ±0.2	2	7	40 N	45 N
<i>0.3937</i>		0.787 ±0.008	0.08	0.28	8.99 lbf	10.12 lbf
13	M 4	20 ±0.2	2.5	7	60 N	70 N
<i>0.511</i> 8		0.787 ±0.008	0.10	0.28	13.49 lbf	15.74 lbf
16	M 4	25 ±0.2	3	8	125 N	150 N
<i>0.62</i> 99		0.984 ±0.008	0.12	0.31	28.10 lbf	33.72 lbf
20	M 6	25 ±0.2	4	6	250 N	280 N
0.7874		0.984 ±0.008	0.16	0.24	56.20 lbf	62.95 lbf
25	M 6	35 ±0.3	5	8	400 N	450 N
0.9843		1.378 ±0.012	0.20	0.31	89.92 lbf	101 lbf
32	M 6	40 ±0.3	6	6	600 N	700 N
1.2598		1.575 ±0.012	0.24	0.24	135 lbf	157 lbf

Specification

· Magnet materials

- 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)
- Housing Brass
- · Identification for ND Magnetic area colored blue
- ISO Fundamental Tolerances → page 2129
- · 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

On request

- · Housing in stainless steel
- · Poles in stainless steel
- Higher magnetic forces
- Temperature resistance up to 536 °F (280 °C)

Information

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GN 54.2 retaining magnets, in combination with the brass housing, the iron poles, and the plastic insulation, form a system that shields and strengthens the magnet for optimal transmission of the magnetic flux onto the magnetic surface.

This special assembly is also known as a "sandwich magnet".

*Mounting this retaining magnet directly in steel components will create a magnetic short circuit, which reduces the magnetic force by up to 15 %. To avoid this, the distance k between the brass housing and the steel component or installation hole should be maintained.

- More Information on Retaining Magnets → page 1990
- Retaining Magnets GN 52.2 (with Tapped Blind Hole) → page 2020
- Retaining Magnets GN 52.3 (with Tapped Blind Hole) → page 2021
- Retaining Magnets GN 52.5 (Stainless Steel, with Threaded Stud) → page 2023

