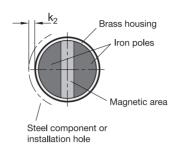
5.7

5

# View of magnetic surface





### Universal table

Dimensions in: millimeters - inches

<b>d</b> h6	h	k <sub>1</sub> *	k <sub>2</sub> **	Nominal magnetic forces	
				sc	ND
6	20 ±0.2	10	1.5	8 N	10 N
0.24	0.79 ±0.008	0.39	0.06	1.80 lbf	2.25 lbf
8	20 ±0.2	10	1.5	22 N	25 N
0.31	0.79 ±0.008	0.39	0.06	4.95 lbf	5.62 lbf
10	20 ±0.2	8	2	40 N	45 N
0.39	0.79 ±0.008	0.31	0.08	8.99 lbf	10.12 lbf
13	20 ±0.2	6	2.5	60 N	70 N
<i>0.51</i>	0.79 ±0.008	0.24	0.10	13.49 lbf	15.74 lbf
16	20 ±0.2	2	3	125 N	150 N
<i>0.63</i>	0.79 ±0.008	0.08	0.12	28.10 lbf	33.72 lbf
20	25 ±0.2	5	4	250 N	280 N
0.79	0.98 ±0.008	0.20	0.16	56.20 lbf	62.95 lbf
25	35 ±0.3	7	5	400 N	450 N
0.98	1.38 ±0.012	0.28	0.20	89.92 lbf	101 lbf
32	40 ±0.3	4.5	6	600 N	700 N
1.26	1.57 ±0.012	0.18	0.24	135 lbf	157 lbf

## **Specification**

· Magnet materials

- SmCo 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

SC

GN 54.1 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 "sandwich magnet".

The retaining magnets can be mounted easily and securely by press-fitting, shrinking or with adhesive.

\*k<sub>1</sub> is the max. dimension by which the retaining magnet can be shortened without losing its properties.

\*\*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 k2 between the brass housing and the steel component or installation hole should be maintained. The distance is to be maintained also if the retaining magnet is shortened.

- More Information on Retaining Magnets → page 1990
- Retaining Magnets GN 52.1 (without Hole) → page 2019

How to order		Magnet material
GN 54.1-SC-13	2	Diameter d

