

Retaining magnets

Rod-Shaped, without Bore, with Fitting Tolerance

SPECIFICATION

Housing

Brass

Materials of the magnet:

SmCo **SC**

Samarium, cobalt

Temperature resistant up to 200 °C

NdFeB **ND**

Neodymium, iron, boron

Temperature resistant up to 80 °C

Identification of ND:

Magnetic area colored blue



INFORMATION

Retaining magnets GN 54.1 are combined with a brass housing, the iron poles and the plastic insulation into a system that shields and considerably strengthens the magnet for optimal transmission of the magnetic flux onto the magnetic surface. This special design is also known by the name "sandwich magnet" or "pole shoe magnet". The retaining magnets are easy to fasten securely by pressing, shrinking or gluing.

* k_1 is the maximum dimension by which the retaining magnet can be shortened without losing its properties.

** Mounting these retaining magnets directly in steel components will create a magnetic shortcircuit which reduces the retaining power by as much as 15%. To avoid this, the distance k_2 should be maintained between the brass housing and steel part or installation hole. These spacings should also be maintained if the retaining magnet is shortened.

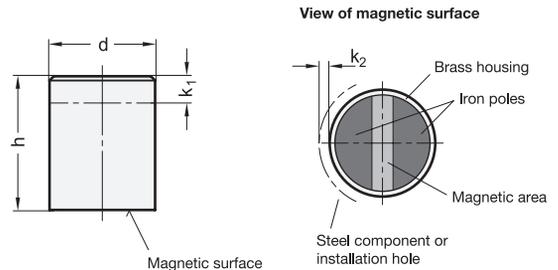
- More information to retaining magnets (see page 2022)

ACCESSORY

- Holding Disks GN 70 (see page 2051)
- Adhesive Disks GN 70.1 (see page 2051)
- Rubber Caps GN 70.2 (see page)

ON REQUEST

- Housing in stainless steel
- Poles in stainless steel
- Higher magnetic forces
- Temperature resistance up to 280 °C



GN 54.1

| Description | d h6 | h | k_1^* | k_2^{**} | Nominal magnetic forces in N | ⚖ |
|---------------|------|---------|---------|------------|------------------------------|-----|
| GN 54.1-SC-6 | 6 | 20 ±0.2 | 10 | 1.5 | 8 | 5 |
| GN 54.1-SC-8 | 8 | 20 ±0.2 | 10 | 1.5 | 22 | 8 |
| GN 54.1-SC-10 | 10 | 20 ±0.2 | 8 | 2 | 40 | 12 |
| GN 54.1-SC-13 | 13 | 20 ±0.2 | 6 | 2.5 | 60 | 20 |
| GN 54.1-SC-16 | 16 | 20 ±0.2 | 2 | 3 | 125 | 30 |
| GN 54.1-SC-20 | 20 | 25 ±0.2 | 5 | 4 | 250 | 60 |
| GN 54.1-SC-25 | 25 | 35 ±0.3 | 7 | 5 | 400 | 134 |
| GN 54.1-SC-32 | 32 | 40 ±0.3 | 4.5 | 6 | 600 | 251 |
| GN 54.1-ND-6 | 6 | 20 ±0.2 | 10 | 1.5 | 10 | 5 |
| GN 54.1-ND-8 | 8 | 20 ±0.2 | 10 | 1.5 | 25 | 8 |
| GN 54.1-ND-10 | 10 | 20 ±0.2 | 8 | 2 | 45 | 12 |
| GN 54.1-ND-13 | 13 | 20 ±0.2 | 6 | 2.5 | 70 | 20 |
| GN 54.1-ND-16 | 16 | 20 ±0.2 | 2 | 3 | 150 | 30 |
| GN 54.1-ND-20 | 20 | 25 ±0.2 | 5 | 4 | 280 | 59 |
| GN 54.1-ND-25 | 25 | 35 ±0.3 | 7 | 5 | 450 | 132 |
| GN 54.1-ND-32 | 32 | 40 ±0.3 | 4.5 | 6 | 700 | 246 |