GN 54.1 Retaining Magnets

Brass, rod-shaped, smooth finish

Photo

Product description

Information

GN 54.1 retaining magnets are a shielded magnetic assembly.

The configuration of magnetic and iron poles is known as a sandwich magnet assembly. These retaining magnets provide superior holding power and work well with smaller workpieces.

Mounting options include pressing in or gluing in.

* 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 effect, the spacings k_2 between brass jacket and steel component should be observed. These spacings should also be maintained if the retaining magnet is shortened.

Specification

Housing
Brass

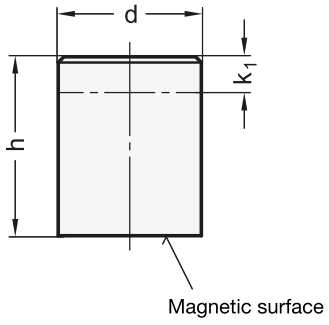
Materials of the magnet:

- SmCo **SC**
  Samarium, cobalt
  temperature resistant up to 200° C
- NdFeB **ND**
  Neodymium, iron, boron
  temperature resistant up to 80° C

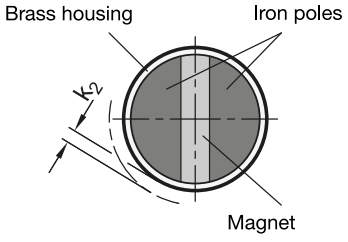
Identification of ND:
blue inked inked surface area

RoHS compliant

Technical drawing



View of magnetic surface



Part Options / Table

Metric

d	h	k_1 *	k_2 **	Nominal magnetic forces in N SC SmCo	ND NdFeB
.24	.79	.39	.06	1.80 lbf (8 N)	2.25 lbf (10 N)
.31	.79	.39	.06	4.95 lbf (22 N)	4.95 lbf (22 N)
.39	.79	.31	.08	8.99 lbf (40 N)	10.12 lbf (45 N)
.51	.79	.24	.10	13.49 lbf (60 N)	15.74 lbf (70 N)
.63	.79	.08	.12	28.10 lbf (125 N)	33.72 lbf (150 N)
.79	.98	.20	.16	56.20 lbf (250 N)	62.95 lbf (280 N)
.98	1.38	.28	.20	89.92 lbf (400 N)	101 lbf (450 N)
1.26	1.57	.18	.24	135 lbf (600 N)	157 lbf (700 N)