GN 54.1

Retaining magnets

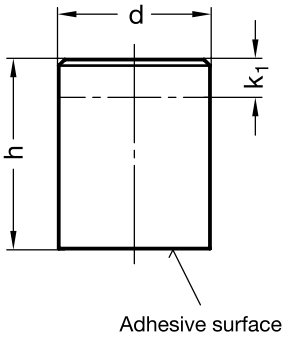
- **Specification**
  Rod-shaped, smooth finish
  Housing, brass
- **Materials of the magnet**
  - Samarium, cobalt SmCo **SC**, temperature resistant up to 200° C
  - Neodymium, iron, boron NdFeB **ND**, temperature resistant up to 80° C
    Identification of ND: blue inked adhesive surface.

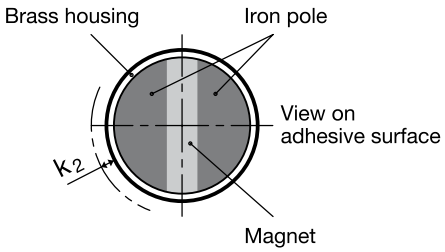
Features and applications

Retaining magnets GN 54.1 are a shielded magnetic system. The configuration of magnetic and iron poles is known as sandwich magnet system. These retaining magnets deliver ultimate holding power, also with smaller workpieces.
Attachment options include pressing in or gluing in.
Further details for retaining magnets see page 3 to 5.

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

2) Mounting these retaining magnets directly in steel components will create a magnetic short-circuit 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.





Standard Elements	Main dimensions				Nominal adhesive forces in N	⚖
Description	d h_6	h	k_1 1)	k_2 2)		g
GN 54.1-ND-6	6	20 +0.2/-0.2	10	1.5	10	5
GN 54.1-ND-8	8	20 +0.2/-0.2	10	1.5	22	8
GN 54.1-ND-10	10	20 +0.2/-0.2	8	2	45	12
GN 54.1-ND-13	13	20 +0.2/-0.2	6	2.5	70	20
GN 54.1-ND-16	16	20 +0.2/-0.2	2	3	150	30
GN 54.1-ND-20	20	25 +0.2/-0.2	5	4	280	59
GN 54.1-ND-25	25	35 +0.3/-0.3	7	5	450	132
GN 54.1-ND-32	32	40 +0.3/-0.3	4.5	6	700	246
GN 54.1-SC-6	6	20 +0.2/-0.2	10	1.5	8	5
GN 54.1-SC-8	8	20 +0.2/-0.2	10	1.5	22	8
GN 54.1-SC-10	10	20 +0.2/-0.2	8	2	40	12
GN 54.1-SC-13	13	20 +0.2/-0.2	6	2.5	60	20
GN 54.1-SC-16	16	20 +0.2/-0.2	2	3	125	30
GN 54.1-SC-20	20	25 +0.2/-0.2	5	4	250	60
GN 54.1-SC-25	25	35 +0.3/-0.3	7	5	400	134
GN 54.1-SC-32	32	40 +0.3/-0.3	4.5	6	600	251