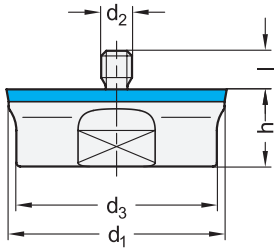
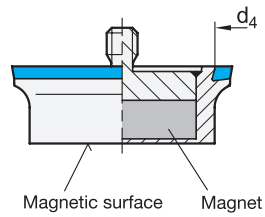
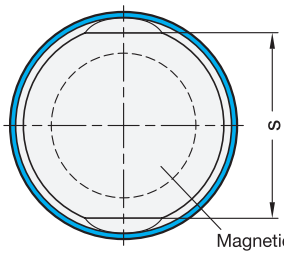
GN 5080 | Retaining Magnets

NdFeB, Housing Stainless Steel, with Threaded Stud, Hygienic Design





View of magnetic surface



Inox Stainless Steel

3 Polarity

N North
S South

4 Type

A Flat magnetic surface

1 d_1	2 d_2	d_3	d_4	h	Length l	s	Nominal magnetic forces in N	
							Combination with holding disk	Combination of magnet polarity N with polarity S
28	M 4	26	24	10	5	24	45	60
42	M 5	40	38	11	5	38	80	105

Specification

5 6

- Magnet material
  NdFeB
  Neodymium iron boron
  Temperature resistant up to 180 °C
- Housing
  Stainless steel AISI 316L
  Matte finish (Ra < 0.8 µm) **MT**
- Sealing ring
  - H-NBR **H**
    Temperature resistant -25 °C to +150 °C
  - EPDM **E**
    Temperature resistant -40 °C to +120 °C
  - Blue
  - Hardness 85 ±5 Shore A
  - FDA compliant
- *Plastic Characteristics → Page QVX*
- *Stainless Steel Characteristics → Page QVX*
- RoHS

Accessory

- Sealing Rings GN 7600 → *Page QVX*
- Holding Disks GN 7080 → *Page QVX*
- Holding Disks GN 7090 → *Page QVX*
- Nuts GN 1580 → *Page QVX*

On request

- With FKM sealing ring (fluoro-elastomer) **F**

Information

Retaining magnets GN 5080 are designed for use in hygienic areas. The sealed screw-on surface enables mounting without dead spaces; the impervious geometry in combination with the high quality finish prevents dirt from accumulating and facilitates cleaning.

Since non-magnetic stainless steels are generally used in hygienic areas, a holding force is only achieved in combination with holding disks GN 7080 or GN 7090. If an increased holding force is required, a second magnet with opposite polarity serves as a counterpart.

Thanks to the material used and the enclosed design, the retaining magnets can also be used in particularly aggressive environments.

see also...

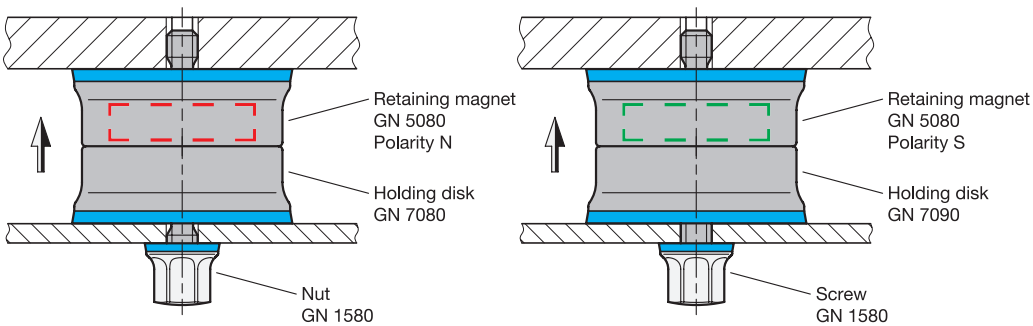
- *Product Family Hygienic Design → Page QVX*
- *More Information to Retaining Magnets → Page QVX*
- *Assembly Instructions GN 5080 / GN 5090 / GN 7080 / GN 7090 → Page QVX*
- *Retaining Magnets GN 50.3 → Page QVX*
- *Retaining Magnets GN 50.8 → Page QVX*
- *Retaining Magnets GN 51.3 → Page QVX*

How to order

1 2 3 4 5 6
GN 5080-42-M5-S-A-MT-E

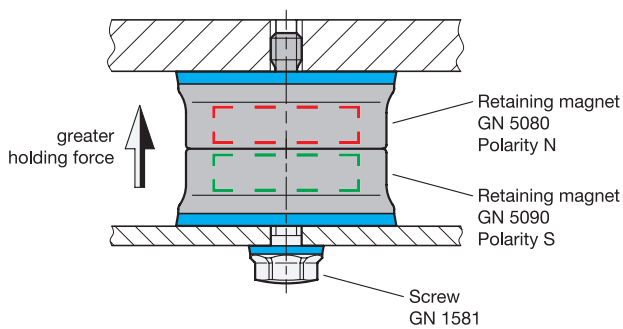
1	d_1
2	d_2
3	Polarity
4	Type
5	Finish
6	Material (sealing ring)

Retaining magnet with holding disks



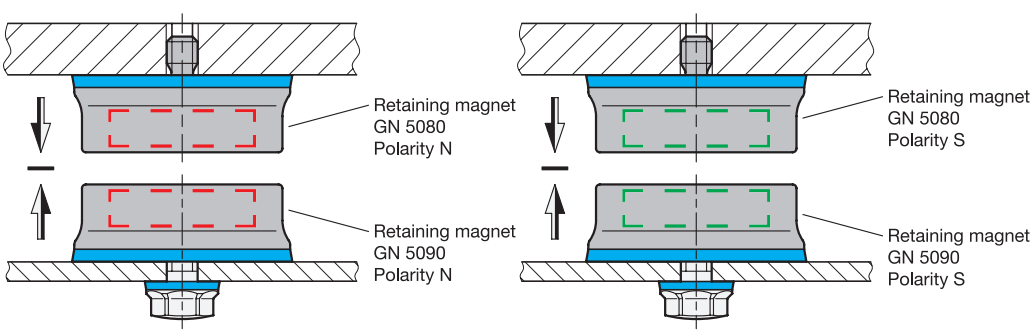
A normal holding force is achieved by combining retaining magnets with holding disks.
Retaining magnets with north or south poles on the holding surface can be used equally.

Two retaining magnets with opposite polarity



If two retaining magnets with opposite polarity are combined, an increased holding force is achieved.

Two retaining magnets with the same polarity



Combining two retaining magnets with the same polarity creates a repelling force.