# **Retaining Magnets**

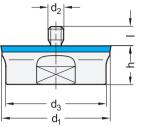
Neodymium, Iron, Boron (NdFeB), Housing Stainless Steel, with Threaded Stud, Hygienic Design

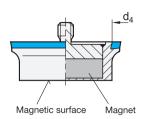


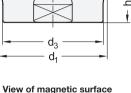
3.1

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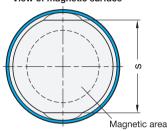




South



A Flat magnetic surface



5

6

## Metric table

<b>U</b>	2							Dimensions in: millimeters - inches
d <sub>1</sub>	$d_2$	$d_3$	$d_4$	h	Length I	s	Nominal magnetic forces	
							Combination with holding disk	Combination of magnet polarity N with polarity S
28 1.10	M 4	26 1.02	24 0.94	10 0.39	5 0.20	24 0.94	45 N 10.12 lbf	60 N 13.49 lbf
42 1.65	M 5	40 1.57	38 1.50	11 0.43	5 0.20	38 1.50	80 N 17.99 lbf	105 N 23.61 lbf

# **Specification**

 Magnet material NdFeB Neodymium, iron, boron Temperature resistant up to 356 °F (180 °C)

 Housing Stainless steel AISI 316L Matte finish (Ra  $< 0.8 \mu m$ ) MT

· Sealing ring

н - H-NBR Temperature resistant -13 °F to +302 °F (-25 °C to +150 °C)

- EPDM Ε

Temperature resistant -40 °F to +248 °F (-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

ullet With FKM sealing ring (fluorine rubber) ullet

### 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 can be used as a counterpart.

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

- Product Family Hygienic Design → page QVX
- More Information on Retaining Magnets  $\rightarrow$  page QVX
- Assembly Instructions for 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	Diameter d₁
	2	Thread d₂
	3	Polarity
	4	Туре
1 2 3 4 5 6	5	Finish
GN 5080-42-M5-S-A-MT-E	6	Sealing ring material

