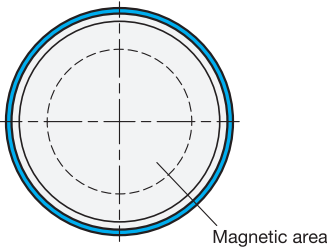


Metric



View of magnetic surface



3 Polarity

- N North
- S South

4 Type

- A Flat magnetic surface

Metric table

Dimensions in: millimeters / inches

d ₁	d ₂	d ₃	d ₄	h	t	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	4 0.16	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	80 N 17.98 lbf	105 N 23.60 lbf

Specification

Magnet material

NdFeB
Neodymium, iron, boron
Operating temperature up to 356 °F (180 °C)

Housing

Stainless steel AISI 316L
Matte finish (Ra < 0.8 µm) **MT**

Sealing ring

- H-NBR **H**
- Operating temperature -13 °F to +302 °F (-25 °C to +150 °C)
- EPDM **E**
- Operating temperature -40 °F to +248 °F (-40 °C to +120 °C)
- FKM **F**
- Operating temperature +23 °F to +392 °F (-5 °C to +200 °C)
- FDA compliant material
- Blue
- Hardness 85 ±5 Shore A

RoHS

Accessory Page

GN 7600 Sealing Rings	QVX
GN 7080 Holding Disks	QVX
GN 7090 Holding Disks	QVX
GN 1581 Hex Head Screws	QVX

Retaining magnets GN 5090 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.

To prevent the magnetic properties from being impaired, the mounting screw should also be made of non-magnetic stainless steel. Thanks to the material used and the enclosed design, the retaining magnets can also be used in particularly aggressive environments.

see also...

	Page
GN 50.4 Retaining Magnets	QVX
GN 51.5 Retaining Magnets	QVX

Technical Information

Assembly Instructions	QVX
Product Family Hygienic Design	QVX
Plastic Characteristics	QVX
Stainless Steel Characteristics	QVX

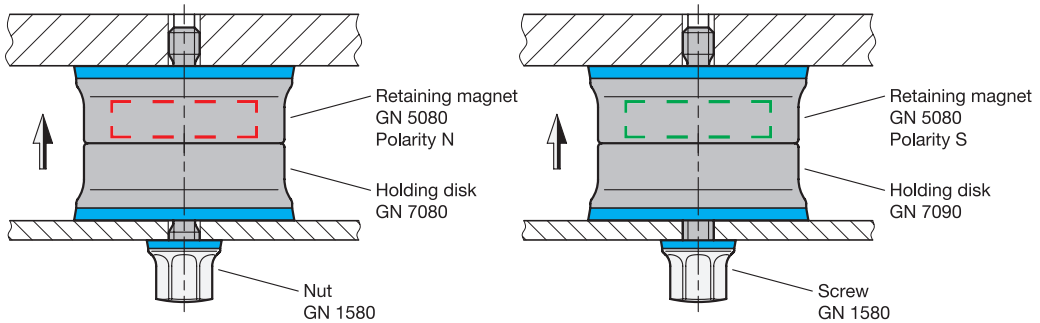
How to order

1	Diameter d ₁
2	Thread d ₂
3	Polarity
4	Type
5	Finish
6	Sealing ring material

GN 5090-28-M4-N-A-MT-H

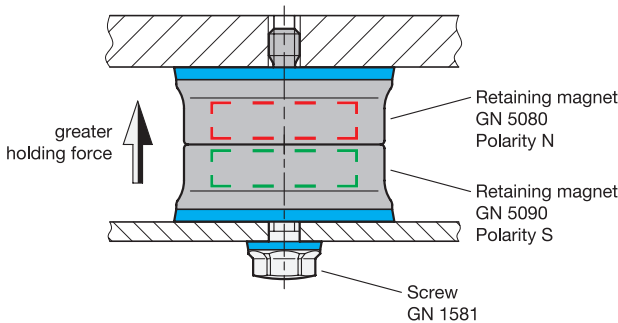
3.1
3.2
3.3
3.4
3.5
3.6
3.7
3.8
3.9
3.10

Retaining magnet with holding disks



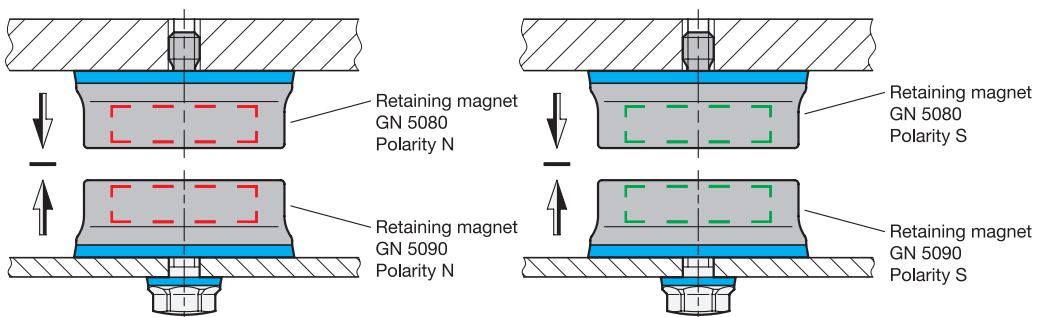
A normal holding force is achieved by combining retaining magnets with holding disks. Retaining magnets with north or south poles on the holding surface can be used equally.

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.