



Metric



SS Stainless Steel

HD

FDA

3 Polarity

N North

S South

4 Type

A Flat magnetic surface

Metric table

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d ₁	d ₂	d ₃	d ₄	h	Length l	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

Dimensions in: millimeters - inches

Specification

- 5

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- Magnet material
NdFeB
Neodymium, iron, boron
Temperature resistant up to 356 °F (180 °C)
 - Housing
Stainless steel AISI 316L
Matte finish (Ra < 0.8 µm) MT
 - Sealing ring
- H-NBR H
Temperature resistant
-13 °F to +302 °F (-25 °C to +150 °C)
- EPDM E
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

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.

see also...

- Product Family Hygienic Design → page QVX
- More Information on Retaining Magnets → 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

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 (fluorine rubber) F

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

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GN 5080-42-M5-S-A-MT-E