



Metric table

² d ₁	³ d ₂	⁴ h ±0.1	Nominal magnetic forces	Packaging units
6 ±0.1 0.236 ±0.004	2 ±0.1 0.079 ±0.004	3 0.118	4.5 N 1.01 lbf	10
8 ±0.1 0.315 ±0.004	4.5 ±0.1 0.177 ±0.004	3 0.118	5.5 N 1.24 lbf	10
10 ±0.1 0.394 ±0.004	4.5 ±0.1 0.177 ±0.004	3 0.118	12 N 3.70 lbf	10
12 ±0.1 0.472 ±0.004	4.5 ±0.1 0.177 ±0.004	3 0.118	18 N 4.05 lbf	10
15 ±0.1 0.591 ±0.004	6 ±0.1 0.236 ±0.004	3.5 0.138	25 N 5.62 lbf	10
19.8 ±0.1 0.780 ±0.004	4.2 ±0.1 0.165 ±0.004	10 0.394	88 N 19.78 lbf	5
20.8 ±0.1 0.819 ±0.004	14.8 ±0.1 0.583 ±0.004	6 0.236	55 N 12.36 lbf	5
22 ±0.1 0.866 ±0.004	16.5 ±0.1 0.650 ±0.004	6 0.236	49 N 11.02 lbf	10
24 ±0.1 0.945 ±0.004	9.5 ±0.1 0.374 ±0.004	4 0.157	68 N 15.29 lbf	5
32 ±0.2 1.260 ±0.008	10.5 ±0.2 0.413 ±0.008	2 0.079	42 N 9.44 lbf	1
35 ±0.1 1.378 ±0.004	19 ±0.2 0.748 ±0.008	4.5 0.177	110 N 24.73 lbf	5
38 ±0.1 1.496 ±0.004	12 ±0.1 0.472 ±0.004	4 0.157	110 N 24.73 lbf	1
40 ±0.1 1.575 ±0.004	12.5 ±0.1 0.492 ±0.004	4 0.157	126 N 28.33 lbf	1
48 ±0.2 1.890 ±0.008	15 ±0.1 0.591 ±0.004	5 0.197	165 N 37.09 lbf	1
56 ±0.2 2.205 ±0.008	15 ±0.1 0.591 ±0.004	6 0.236	230 N 51.71 lbf	1

Dimensions in: millimeters - inches

² d ₁	³ d ₂	⁴ h ±0.1	d ₃ +0.5	Nominal magnetic forces	Packaging units
8 ±0.1 0.315 ±0.004	2.6 ±0.1 0.102 ±0.004	3 0.118	5.2 0.205	7 N 1.57 lbf	10
10 ±0.1 0.394 ±0.004	3.5 ±0.1 0.138 ±0.004	3 0.118	6.6 0.260	11 N 2.47 lbf	10
12 ±0.1 0.472 ±0.004	3.5 ±0.1 0.138 ±0.004	3 0.118	6.6 0.260	18 N 4.05 lbf	10
15 ±0.1 0.591 ±0.004	4.5 ±0.1 0.177 ±0.004	3.5 0.138	9.3 0.366	29 N 6.52 lbf	10
17 ±0.1 0.669 ±0.004	4.5 ±0.1 0.177 ±0.004	5 0.197	9.3 0.366	50 N 11.24 lbf	10
18 ±0.1 0.709 ±0.004	4.5 ±0.1 0.177 ±0.004	4 0.157	9.3 0.366	41 N 9.22 lbf	5
24 ±0.1 0.945 ±0.004	5.5 ±0.1 0.217 ±0.004	4 0.157	11.5 0.453	66 N 14.84 lbf	1
40 ±0.1 1.575 ±0.004	11.5 ±0.5 0.453 ±0.020	4 0.157	17.5 0.689	130 N 29.23 lbf	1

Specification

- Magnet material
NdFeB
Neodymium, iron, boron
- Nickel plated
- Temperature resistant up to 176 °F (80 °C)
- RoHS compliant



ND

On request

- Other dimensions and shape
- Temperature resistant up to 428 °F (220 °C)
- With adhesive pad
- Zinc or gold plated finish

Information

Raw magnets GN 55.1 are disk-shaped unshielded magnets. They can be easily and securely fastened using the bore or countersunk. If no suitable retaining magnets or magnet systems are available, raw magnets may be used in combination with appropriate holding constructions to build up highly specific magnet systems.

When used without air gap, individual raw magnets always have lower magnetic forces than a magnet system in which shielding and magnetic return enormously intensify the force acting at the magnetic surface. Depending on the air gap between magnet and mating component, individual raw magnets, unlike magnet systems, can have substantially higher retaining forces.

see also...

• More Information on Retaining Magnets → page 1990

How to order	
¹	Magnet material
²	Outer diameter d ₁
³	Inner diameter d ₂
⁴	Height h

GN 55.1-ND-38-12-4

3.1
3.2
3.3
3.4
3.5
3.6
3.7
3.8
3.9
3.10