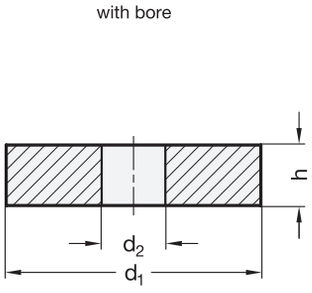

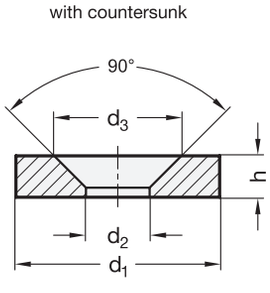

Metric

Metric table

Dimensions in: millimeters - *inches*

With bore

d_1	d_2	h ±0.1	Nominal magnetic forces
6 ±0.1 *0.236 ±0.004*	2 ±0.1 *0.079 ±0.004*	3 *0.118*	4.5 N *1.01 lbf*
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 ±0.1 *0.394 ±0.004*	4.5 ±0.1 *0.177 ±0.004*	3 *0.118*	12 N *3.70 lbf*
12 ±0.1 *0.472 ±0.004*	4.5 ±0.1 *0.177 ±0.004*	3 *0.118*	18 N *4.05 lbf*
15 ±0.1 *0.591 ±0.004*	6 ±0.1 *0.236 ±0.004*	3.5 *0.138*	25 N *5.62 lbf*
19.8 ±0.1 *0.780 ±0.004*	4.2 ±0.1 *0.165 ±0.004*	10 *0.394*	88 N *19.78 lbf*
20.8 ±0.1 *0.819 ±0.004*	14.8 ±0.1 *0.583 ±0.004*	6 *0.236*	55 N *12.36 lbf*
22 ±0.1 *0.866 ±0.004*	16.5 ±0.1 *0.650 ±0.004*	6 *0.236*	49 N *11.02 lbf*
24 ±0.1 *0.945 ±0.004*	9.5 ±0.1 *0.374 ±0.004*	4 *0.157*	68 N *15.29 lbf*
32 ±0.2 *1.260 ±0.008*	10.5 ±0.2 *0.413 ±0.008*	2 *0.079*	42 N *9.44 lbf*
35 ±0.1 *1.378 ±0.004*	19 ±0.2 *0.748 ±0.008*	4.5 *0.177*	110 N *24.73 lbf*
38 ±0.1 *1.496 ±0.004*	12 ±0.1 *0.472 ±0.004*	4 *0.157*	110 N *24.73 lbf*
40 ±0.1 *1.575 ±0.004*	12.5 ±0.1 *0.492 ±0.004*	4 *0.157*	126 N *28.33 lbf*
48 ±0.2 *1.890 ±0.008*	15 ±0.1 *0.591 ±0.004*	5 *0.197*	165 N *37.09 lbf*
56 ±0.2 *2.205 ±0.008*	15 ±0.1 *0.591 ±0.004*	6 *0.236*	230 N *51.71 lbf*

With countersunk

d_1	d_2	h ±0.1	d_3 +0.5	Nominal magnetic forces
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 ±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*
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*
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*
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*
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*
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*
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*

Specification

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

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 surfac. 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

GN 55.1-ND-38-12-4

1	Magnet material
2	Outer diameter d_1
3	Inner diameter d_2
4	Height h