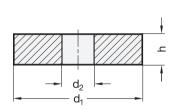
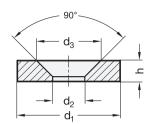


3.1

with bore



with countersunk





## Metric table

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

2	3	Dimensions in: millimeters - inches						
With countersunk								
d <sub>1</sub>	$d_2$	<b>h</b> ±0.1	<b>d</b> <sub>3</sub> +0.5	Nominal magnetic forces	Packaging units			
8 ±0.1	2.6 ±0.1	3	5.2	7 N	10			
0.315 ±0.004	0.102 ±0.004	<i>0.118</i>	0.205	1.57 lbf				
10 ±0.1	3.5 ±0.1	3	6.6	11 N	10			
0.394 ±0.004	0.138 ±0.004	0.118	0.260	2.47 lbf				
12 ±0.1	3.5 ±0.1	3	6.6	18 N	10			
0.472 ±0.004	0.138 ±0.004	0.118	0.260	<i>4.05 lbf</i>				
15 ±0.1	4.5 ±0.1	3.5	9.3	29 N	10			
0.591 ±0.004	0.177 ±0.004	<i>0.138</i>	<i>0.366</i>	6.52 lbf				
17 ±0.1	4.5 ±0.1	5	9.3	50 N	10			
0.669 ±0.004	0.177 ±0.004	0.197	<i>0.366</i>	11.24 lbf				
18 ±0.1	4.5 ±0.1	4	9.3	41 N	5			
0.709 ±0.004	0.177 ±0.004	0.157	<i>0.366</i>	9.22 lbf				
24 ±0.1	5.5 ±0.1	4	11.5	66 N	1			
0.945 ±0.004	0.217 ±0.004	0.157	<i>0.453</i>	14.84 lbf				
40 ±0.1	11.5 ±0.5	4	17.5	130 N	1			
1.575 ±0.004	0.453 ±0.020	0.157	0.689	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.

• More Information on Retaining Magnets → page 1990

How to order		Magnet material
		Outer diameter d <sub>1</sub>
1 2 3 4	3	Inner diameter d <sub>2</sub>
GN 55.1-ND-38-12-4	4	Height h

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3.9