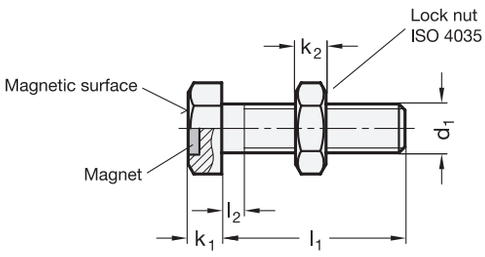
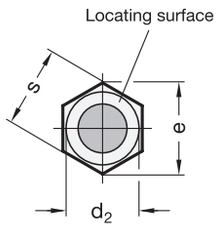
Metric





Metric table

Dimensions in: millimeters - *inches*

d_1* Thread	l_1					d_2	e ≈	k_1	k_2	l_2 max.	s	Nominal magnetic forces
M 6	12 *0.47*	16 *0.63*	20 *0.79*	25 *0.98*	30 *1.18*	10 *0.39*	11 *0.43*	4 -0.5 *0.16 -0.02*	3.2 *0.13*	3 *0.12*	10 *0.39*	25 N *5.62 lbf*
M 8	16 *0.63*	20 *0.79*	25 *0.98*	30 *1.18*	40 *1.57*	13 *0.51*	14.4 *0.57*	5.3 -0.5 *0.21 -0.02*	4 *0.16*	3.7 *0.15*	13 *0.51*	50 N *11.24 lbf*
M 10	20 *0.79*	25 *0.98*	30 *1.18*	40 *1.57*	50 *1.97*	17 *0.67*	17.8 *0.70*	6.4 -0.5 *0.25 -0.02*	5 *0.20*	4.5 *0.18*	17 *0.67*	75 N *16.86 lbf*
M 12	25 *0.98*	30 *1.18*	40 *1.57*	50 *1.97*	60 *2.36*	19 *0.75*	20 *0.79*	7.5 -1 *0.30 -0.04*	6 *0.24*	5.2 *0.20*	19 *0.75*	110 N *24.73 lbf*
M 16	30 *1.18*	40 *1.57*	50 *1.97*	60 *2.36*	80 *3.15*	24 *0.94*	26.8 *1.06*	10 -1 *0.39 -0.04*	8 *0.31*	6 *0.24*	24 *0.94*	145 N *32.60 lbf*

*Thread is nut compatible

Specification

- Hex head screw
  Steel
  - Property class 5.8
  - Zinc plated, blue passivated finish
- Hex nut
  Steel
  - Property class 04
  - Zinc plated, blue passivated finish
- Magnet material
  NdFeB **ND**
  Neodymium, iron, boron
  Temperature resistant up to 176 °F (80 °C)
- *Strength Values of Screws* → *page 2127*
- *Strength Values of Nuts* → *page 2127*
- RoHS compliant

Information

GN 251.6 stop bolts with retaining magnet, in combination with the steel housing of the hex head screw, form a system that shields and strengthens the magnet for optimal transmission of the magnetic flux onto the magnetic surface.

These stop bolts are suitable as workpiece stop, with the integrated magnet holding the workpiece in place.

After positioning, the stop bolt can be secured with the included lock nut.

see also...

- *More Information on Retaining Magnets* → *page 1990*
- *Set Screws GN 913.6* → *page XYZ*
- *Stop Bolts GN 251 (without Retaining Magnet)* → *page 1183*
- *Stop Bolts GN 251.2 (with Limit Switch)* → *www.jwwinco.com*

How to order

GN 251.6-M6-12-ND

1	**Thread d_1**
2	**Length l_1**
3	**Magnet material**

