



SS Stainless Steel

3 Type

A Without lock nut
AK With lock nut

Metric table

Dimensions in: millimeters - inches

1 d ₁ Pin $_{-0.02}^{+0.04}$ Bore H7	2 l ₁ min.	d ₂	d ₃	e	l ₂ ≈	l ₃	l ₄	A/F	Spring load ≈	
									Initial	End
6 0.24	6 0.24	M 12 x 1.5	30 1.18	21.9 0.86	53.5 2.11	22 0.87	6 0.24	19 0.75	6.5 N 1.46 lbf	19 N 4.27 lbf
6 0.24	9 0.35	M 12 x 1.5	30 1.18	21.9 0.86	53.5 2.11	22 0.87	6 0.24	19 0.75	6 N 1.35 lbf	25 N 5.62 lbf
8 0.31	8 0.31	M 16 x 1.5	30 1.18	21.9 0.86	59.5 2.34	26 1.02	8 0.31	19 0.75	8.5 N 1.91 lbf	26 N 5.85 lbf
8 0.31	12 0.47	M 16 x 1.5	30 1.18	21.9 0.86	59.5 2.34	26 1.02	8 0.31	19 0.75	8.5 N 1.91 lbf	28 N 6.29 lbf
10 0.39	12 0.47	M 16 x 1.5	30 1.18	21.9 0.86	59.5 2.34	26 1.02	8 0.31	19 0.75	9.5 N 2.14 lbf	38 N 8.54 lbf

Specification

- Threaded body
 - Steel, blackened finish
 - Plunger pin hardened
 - Stainless steel AISI 303
 - Plunger pin chemically nickel plated
- Knob
 - Plastic
 - Technopolymer (Polyamide PA)
 - Temperature resistant up to 176 °F (80 °C)
 - Black-gray, RAL 7021, matte finish
 - Not removable
- Push button
 - Plastic
 - Technopolymer (Polyacetal POM)
 - Red, RAL 3000, matte finish
- Load Rating Information → page 2103
- ISO Fundamental Tolerances → page 2129
- Plastic Characteristics → page 2135
- Stainless Steel Characteristics → page 2143
- RoHS compliant

Information

GN 414.1 safety lock indexing plungers with click-type lock are used when the plunger pin is to be briefly prevented from protruding. When the pin is retracted to its end position, the knurled knob engages with a clearly audible “click”.

The safety lock can be released only by exerting axial pressure on the red safety push button, with the plunger pin then returning to its starting position by spring force.

see also...

- List of Indexing Plunger Types → page 915
- Spacer Bushings GN 609.5 (to Limit the Thread Length) → page 994
- Thin Hex Nuts GN 909 / GN 909.5 → page 995
- Locating Bushings GN 412.2 / GN 412.4 → page 996

How to order (Steel)	1 Pin diameter d ₁
GN 414.1-6-9-AK	2 Stroke l ₁
	3 Type

How to order (Stainless steel)	1 Pin diameter d ₁
GN 414.1-10-12-A-NI	2 Stroke l ₁
	3 Type
	4 Material

3.1
3.2
3.3
3.4
3.5
3.6
3.7
3.8
3.9
3.10