



SS

Stainless Steel

**3 Type**

- A** With plastic knob, without lock nut
- AK** With plastic knob, with lock nut
- AN** With stainless steel knob, without lock nut
- AKN** With stainless steel knob, with lock nut

**Specification**



- Threaded body
  - Steel, blackened finish —
  - Plunger pin hardened —
  - Stainless steel AISI 303 **NI**
  - Plunger pin chemically nickel plated
- Knob (Type A / AK)
  - Plastic
  - Technopolymer (Polyamide PA)
  - Temperature resistant up to 230 °F (110 °C)
  - Black, matte finish
  - Not removable
- Knob (Type AN / AKN)
  - Stainless steel AISI 303
  - Not removable
- Inch size lock nut
  - Steel, blackened finish
  - ANSI/ASME B18.2.2
  - 18-8 Stainless steel (A2)
- Metric size lock nut
  - Steel, blackened finish
  - DIN 439 B / ISO 8675
  - Stainless steel (A2)
  - DIN 439 B / ISO 8675
- [Load Rating Information](#) → page 2103
- [ISO Fundamental Tolerances](#) → page 2129
- [Plastic Characteristics](#) → page 2135
- [Stainless Steel Characteristics](#) → page 2143
- [RoHS compliant](#)

**Information**

GN 617.1 indexing plungers with lock-out are used for applications where the plunger pin needs to stay in its retracted position. To achieve this, the knob is rotated by 90 degrees after being retracted. A notch keeps the plunger in the retracted position.

The indexing plungers completely made of stainless steel parts are a good choice for use in corrosion free environments.

see also...

- [List of Indexing Plunger Types](#) → page 915
- [Mounting Blocks GN 412.1](#) → page 998
- [Locating Bushings GN 412.2 / GN 412.4](#) → page 996
- [Spacer Bushings GN 609.5 \(to Limit the Thread Length\)](#) → page 994
- [Thin Hex Nuts GN 909 / GN 909.5](#) → page 995

How to order (Inch, steel, with plastic knob)	<b>1</b> Pin diameter d <sub>1</sub>
<b>GN 617.1-5-3/8X24-A</b>	<b>2</b> Thread d <sub>2</sub>
	<b>3</b> Type

How to order (Inch, stainless steel, with plastic knob)	<b>1</b> Pin diameter d <sub>1</sub>
<b>GN 617.1-6-1/2X13-AK-NI</b>	<b>2</b> Thread d <sub>2</sub>
	<b>3</b> Type
	<b>4</b> Material

How to order (Metric, stainless steel, with stainless steel knob)	<b>1</b> Pin diameter d <sub>1</sub>
<b>GN 617.1-8-M16X1.5-AKN-NI</b>	<b>2</b> Thread d <sub>2</sub>
	<b>3</b> Type
	<b>4</b> Material

### Inch table

Dimensions in: inches - millimeters

1 d <sub>1</sub> Pin -0.001 Bore +0.001	2 d <sub>2</sub>	d <sub>3</sub>	e	l <sub>1</sub> ≈	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub> min.	A/F	Spring load ≈			
										Steel		Stainless steel	
										Initial	End	Initial	End
0.197 5	3/8 x 24	0.83 21	0.54 13.8	2.01 51	0.20 5	0.67 17	0.20 5	0.59 15	0.47 12	1.57 lbf 7 N	3.82 lbf 17 N	1.35 lbf 6 N	3.37 lbf 15 N
0.236 6	1/2 x 13	0.98 25	0.64 16.2	2.40 61	0.24 6	0.79 20	0.24 6	0.67 17	0.55 14	2.02 lbf 9 N	5.40 lbf 24 N	1.80 lbf 8 N	4.72 lbf 21 N
0.315 8	5/8 x 11	1.22 31	0.86 21.9	2.97 75.5	0.28 7	1.02 26	0.31 8	0.83 21	0.75 19	2.47 lbf 11 N	6.74 lbf 30 N	2.02 lbf 9 N	5.85 lbf 26 N

### Metric table

Dimensions in: millimeters - inches

1 d <sub>1</sub> Pin -0.02 Bore H7	2 d <sub>2</sub>	d <sub>3</sub>	e	l <sub>1</sub> ≈	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub> min.	A/F	Spring load ≈			
										Steel		Stainless steel	
										Initial	End	Initial	End
5 0.197	M 10 x 1	21 0.83	13.8 0.54	51 2.01	5 0.20	17 0.67	5 0.20	15 0.59	12 0.47	7 N 1.57 lbf	17 N 3.82 lbf	6 N 1.35 lbf	15 N 3.37 lbf
6 0.236	M 12 x 1.5	25 0.98	16.2 0.64	61 2.40	6 0.24	20 0.79	6 0.24	17 0.67	14 0.55	9 N 2.02 lbf	24 N 5.40 lbf	8 N 1.80 lbf	21 N 4.72 lbf
8 0.315	M 16 x 1.5	31 1.22	21.9 0.86	75.5 2.97	7 0.28	26 1.02	8 0.31	23 0.91	19 0.75	11 N 2.47 lbf	30 N 6.74 lbf	9 N 2.02 lbf	26 N 5.85 lbf
10 0.394	M 20 x 1.5	31 1.22	25.4 1.00	91 3.58	10 0.39	33 1.30	10 0.39	30 1.18	22 0.87	19 N 4.27 lbf	45 N 10.12 lbf	17 N 3.82 lbf	40 N 8.99 lbf