



**SS** Stainless Steel

**3 Type**

- A** Without plastic sleeve, without lock nut
- AK** Without plastic sleeve, with lock nut
- B** With plastic sleeve, without lock nut
- BK** With plastic sleeve, with lock nut

**Specification**

- Threaded body / plunger pin / lever arm
  - Steel, blackened finish
  - Plunger pin nitrided
  - Stainless steel **NI**
  - European Standard No. 1.4305 (AISI 303) (only available in metric sizes)
- Spring
  - Stainless steel
  - European Standard No. 1.4310 (AISI 301)
- Plastic sleeve
  - Technopolymer (Polyamide PA)
  - Temperature resistant up to 230 °F (110 °C)
  - Black, matte finish
- Inch size lock nut
  - Steel, blackened finish
  - ANSI/ASME B18.2.2
- Metric size lock nut
  - Steel, blackened finish
  - DIN 439 B / ISO 8675
  - Stainless steel (A2)
  - DIN 439 B / ISO 8675
- RoHS compliant

**Information**

GN 612 cam action indexing plungers are best utilized in applications where the pin may need to be retracted periodically. By rotating the lever arm 180° the plunger pin is withdrawn. The notch allows for safe positioning while the plunger pin is held in the retracted position.

The grooved lever arm provides the user with a better grip when operating the mechanism. In addition, the snap-on plastic ribbed sleeve offers a more aesthetically pleasing and comfortable finger grip.

see also...

- *List of Cam Action Indexing Plungers Types*
- *Mounting Blocks GN 412.1*
- *Mounting Blocks GN 612.1*

How to order (Inch, steel)	<b>1</b> Pin diameter $d_1$
<b>1</b> <b>2</b> <b>3</b> GN 612-10-3/4X16-AK	<b>2</b> Thread $d_2$
	<b>3</b> Type

How to order (Metric, stainless steel)	<b>1</b> Pin diameter $d_1$
<b>1</b> <b>2</b> <b>3</b> <b>4</b> GN 612-12-M20x1.5-B-NI	<b>2</b> Thread $d_2$
	<b>3</b> Type
	<b>4</b> Material

**Inch table**

Dimensions in: inches - *millimeters*

1 d <sub>1</sub> Pin Bore +0.001	2 d <sub>2</sub> Thread	d <sub>3</sub>	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub> +0.06	l <sub>4</sub>	l <sub>5</sub>	Spring load ≈	
								Initial	End
.24 6	5/8 x 18	.63 16	2.20 56	.39 10	1.18 30	1.26 32	1.65 42	2.47 lbf 11 N	6.52 lbf 29 N
.31 8	5/8 x 18	.63 16	2.20 56	.39 10	1.18 30	1.26 32	1.65 42	2.47 lbf 11 N	6.52 lbf 29 N
.31 8	3/4 x 16	.79 20	2.72 69	.47 12	1.42 36	1.46 37	2.05 52	4.72 lbf 21 N	12.81 lbf 57 N
.39 10	5/8 x 18	.63 16	2.20 56	.39 10	1.18 30	1.26 32	1.65 42	2.47 lbf 11 N	6.52 lbf 29 N
.39 10	3/4 x 16	.79 20	2.72 69	.47 12	1.42 36	1.46 37	2.05 52	4.72 lbf 21 N	12.81 lbf 57 N
.47 12	3/4 x 16	.79 20	2.72 69	.47 12	1.42 36	1.46 37	2.05 52	4.72 lbf 21 N	12.81 lbf 57 N

**Metric table**

Dimensions in: millimeters - *inches*

1 d <sub>1</sub> Steel pin Stainless steel pin Bore H7	2 d <sub>2</sub> Thread	d <sub>3</sub>	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub> +1.5	l <sub>4</sub>	l <sub>5</sub>	Spring load ≈		
								Initial	End	
4* .16	M 10	M 10 x 1	10 .39	37.5 1.48	6 .24	19 .75	21 .83	-	7 N 1.57 lbf	20 N 4.50 lbf
5* .20	M 10	M 10 x 1	10 .39	37.5 1.48	6 .24	19 .75	21 .83	-	7 N 1.57 lbf	20 N 4.50 lbf
5 .20	M 12	M 12 x 1.5	12 .47	47 1.85	8 .31	26 1.02	26 1.02	32 1.26	8 N 1.80 lbf	18 N 4.05 lbf
6* .24	M 10	M 10 x 1	10 .39	37.5 1.48	6 .24	19 .75	21 .83	-	7 N 1.57 lbf	20 N 4.50 lbf
6 .24	M 12	M 12 x 1.5	12 .47	47 1.85	8 .31	26 1.02	26 1.02	32 1.26	8 N 1.80 lbf	18 N 4.05 lbf
6 .24	M 16	M 16 x 1.5	16 .63	56 2.20	10 .39	30 1.18	32 1.26	42 1.65	11 N 2.47 lbf	29 N 6.52 lbf
8 .31	M 12	M 12 x 1.5	12 .47	47 1.85	8 .31	26 1.02	26 1.02	32 1.26	8 N 1.80 lbf	18 N 4.05 lbf
8 .31	M 16	M 16 x 1.5	16 .63	56 2.20	10 .39	30 1.18	32 1.26	42 1.65	11 N 2.47 lbf	29 N 6.52 lbf
8 .31	M 20	M 20 x 1.5	20 .79	69 2.72	12 .47	36 1.42	37 1.46	52 2.05	21 N 4.72 lbf	57 N 12.81 lbf
10 .39	M 16	M 16 x 1.5	16 .63	56 2.20	10 .39	30 1.18	32 1.26	42 1.65	11 N 2.47 lbf	29 N 6.52 lbf
10 .39	M 20	M 20 x 1.5	20 .79	69 2.72	12 .47	36 1.42	37 1.46	52 2.05	21 N 4.72 lbf	57 N 12.81 lbf
12 .47	M 20	M 20 x 1.5	20 .79	69 2.72	12 .47	36 1.42	37 1.46	52 2.05	21 N 4.72 lbf	57 N 12.81 lbf

\* These sizes are only available in Type A and AK

3.1  
3.2  
3.3  
3.4  
3.5  
3.6  
3.7  
3.8  
3.9

