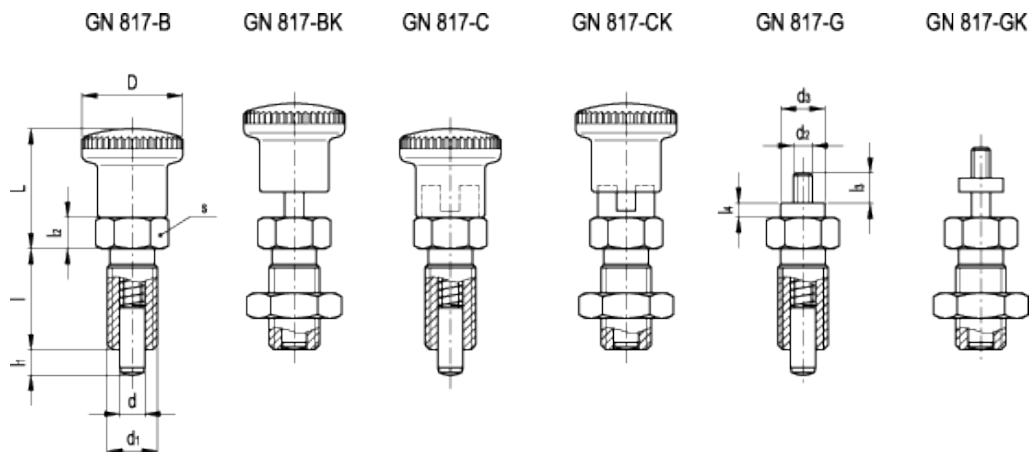


# GN 817-NI

Indexing plungers



## technical informations

### Body

AISI 303 stainless steel.

### Plunger

AISI 303 ground nickel-plated stainless steel. Suggested matching hole in H8 tolerance.

### Locking nut

AISI 304 stainless steel (for versions BK, CK, GK).

### Knurled knob

High impact strength polyamide based (PA) technopolymer, black colour, matte finish (versions B, BK). Resistant to solvents, oils, greases and other chemical agents.

### Knurled keyed knob

High impact strength special technopolymer, black colour, matte finish (versions C, CK). Resistant to solvents, oils, greases

and other chemical agents.

### Knurled keyed knob

High impact strength special technopolymer, black colour, matte finish (versions C, CK). Resistant to solvents, oils, greases and other chemical agents.

### Standard executions available

- Version B: with knob, without locking nut.
- Version BK: with knob and locking nut, ISO 8675.
- Version C: with knob, without locking nut.
- Version CK: with knob and locking nut, ISO 8675.

### Other standard executions available

Threaded drive rod for combination with knobs on customer's request or to link the rod to an operating mechanism of the machine.

- Version G: without locking nut.
- Version GK: with locking nut.

### Features and applications

GN 817 indexing plungers offer the following advantages:

- two retracting strokes (I1) per plunger Ø;
- identical small dimensions I for versions B and C;
- retracting mechanism (version C) is shrouded in part;
- defined thread length by an undercut at the end of the thread.

Version C with keyed knob is used in all the applications where the plunger must not protrude continually. In that case the knob is retracted and afterwards turned by 90°. A notch is provided for the key to prevent the plunger from turning by error or vibration.

Stainless steel, thanks to its high resistance to corrosion, allows the application of these indexing plungers on machines and equipment in those sectors where laws or particular hygienic, climatic and environmental factors make it mandatory to use corrosion resistant materials.

Standard Elements	Main dimensions													Spring pressure		Weight
Description	d <sub>-0.02 -0.04</sub>	L	d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub>	D	l	l <sub>1 min</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	s	Preload [N~]	Max load [N~]	g	
GN 817-4-4-B-NI	4	19	M8x1	-	-	16	16	4	5	-	-	10	4.5	12	11	
GN 817-4-6-B-NI	4	19	M8x1	-	-	16	16	6	5	-	-	10	4	12.5	11	
GN 817-5-5-B-NI	5	22	M10x1	-	-	19	18	5	6	-	-	12	5	15	19	
GN 817-5-8-B-NI	5	22	M10x1	-	-	19	18	8	6	-	-	12	5	18	19	
GN 817-6-6-B-NI	6	26	M12x1.5	-	-	23	22	6	6	-	-	14	6.5	19	32	
GN 817-6-9-B-NI	6	26	M12x1.5	-	-	23	22	9	6	-	-	14	6	25	32	
GN 817-8-8-B-NI	8	32	M16x1.5	-	-	28	26	8	8	-	-	17	8.5	26	68	
GN 817-8-12-B-NI	8	32	M16x1.5	-	-	28	26	12	8	-	-	17	8.5	28	67	
GN 817-10-12-B-NI	10	32	M16x1.5	-	-	28	26	12	8	-	-	17	9.5	38	69	
GN 817-12-15-B-NI	12	34	M20x1.5	-	-	28	33	15	10	-	-	22	11.5	40	117	
GN 817-4-4-BK-NI	4	19	M8x1	-	-	16	16	4	5	-	-	10	4.5	12	12	
GN 817-4-6-BK-NI	4	19	M8x1	-	-	16	16	6	5	-	-	10	4	12.5	12	
GN 817-5-5-BK-NI	5	22	M10x1	-	-	19	18	5	6	-	-	12	5	15	20	
GN 817-5-8-BK-NI	5	22	M10x1	-	-	19	18	8	6	-	-	12	5	18	20	
GN 817-6-6-BK-NI	6	26	M12x1.5	-	-	23	22	6	6	-	-	14	6.5	19	33	
GN 817-6-9-BK-NI	6	26	M12x1.5	-	-	23	22	9	6	-	-	14	6	25	33	
GN 817-8-8-BK-NI	8	32	M16x1.5	-	-	28	26	8	8	-	-	17	8.5	26	69	
GN 817-8-12-BK-NI	8	32	M16x1.5	-	-	28	26	12	8	-	-	17	8.5	28	69	
GN 817-10-12-BK-NI	10	32	M16x1.5	-	-	28	26	12	8	-	-	17	9.5	38	71	
GN 817-12-15-BK-NI	12	34	M20x1.5	-	-	28	33	15	10	-	-	22	11.5	40	151	
GN 817-4-4-C-NI	4	19	M8X1	-	-	16	16	4	5	-	-	10	4.5	12	12	
GN 817-4-6-C-NI	4	19	M8x1	-	-	16	16	6	5	-	-	10	4	12.5	13	
GN 817-5-5-C-NI	5	22	M10x1	-	-	19	18	5	6	-	-	12	5	15	21	
GN 817-5-8-C-NI	5	22	M10x1	-	-	19	18	8.5	6	-	-	12	5	18	22	
GN 817-6-9-C-NI	6	26	M12x1.5	-	-	23	22	9	6	-	-	14	6	25	36	
GN 817-6-6-C-NI	6	26	M12x1.5	-	-	23	22	6	6	-	-	14	6.5	19	35	
GN 817-8-8-C-NI	8	32	M16x1.5	-	-	28	26	8	8	-	-	17	8.5	26	73	
GN 817-8-12-C-NI	8	32	M16x1.5	-	-	28	26	12	8	-	-	17	8.5	28	71	
GN 817-10-12-C-NI	10	32	M16x1.5	-	-	28	26	12	8	-	-	17	9.5	38	74	
GN 817-12-15-C-NI	12	34	M20x1.5	-	-	28	33	15	10	-	-	22	11.5	40	125	
GN 817-4-4-CK-NI	4	19	M8x1	-	-	16	16	4	5	-	-	10	4.5	12	13	
GN 817-4-6-CK-NI	4	19	M8x1	-	-	16	16	6	5	-	-	10	4	12.5	13	
GN 817-5-5-CK-NI	5	22	M10x1	-	-	19	18	5	6	-	-	12	5	15	22	
GN 817-5-8-CK-NI	5	22	M10x1	-	-	19	18	8	6	-	-	12	5	18	22	
GN 817-6-6-CK-NI	6	26	M12x1.5	-	-	23	22	6	6	-	-	14	6.5	19	32	
GN 817-6-9-CK-NI	6	26	M12x1.5	-	-	23	22	9	6	-	-	14	6	25	37	
GN 817-8-8-CK-NI	8	32	M16x1.5	-	-	28	26	8	8	-	-	17	8.5	26	75	
GN 817-8-12-CK-NI	8	32	M16x1.5	-	-	28	26	12	8	-	-	17	8.5	28	72	
GN 817-10-12-CK-NI	10	32	M16x1.5	-	-	28	26	12	8	-	-	17	9.5	38	77	
GN 817-12-15-CK-NI	12	34	M20x1.5	-	-	28	33	15	10	-	-	22	11.5	40	151	
GN 817-4-4-G-NI	4	-	M8x1	M3	7	-	16	4	5	4.5	2.5	10	4.5	12	10	
GN 817-4-6-G-NI	4	-	M8x1	M3	7	-	16	6	5	4.5	2.5	10	4	12.5	10	

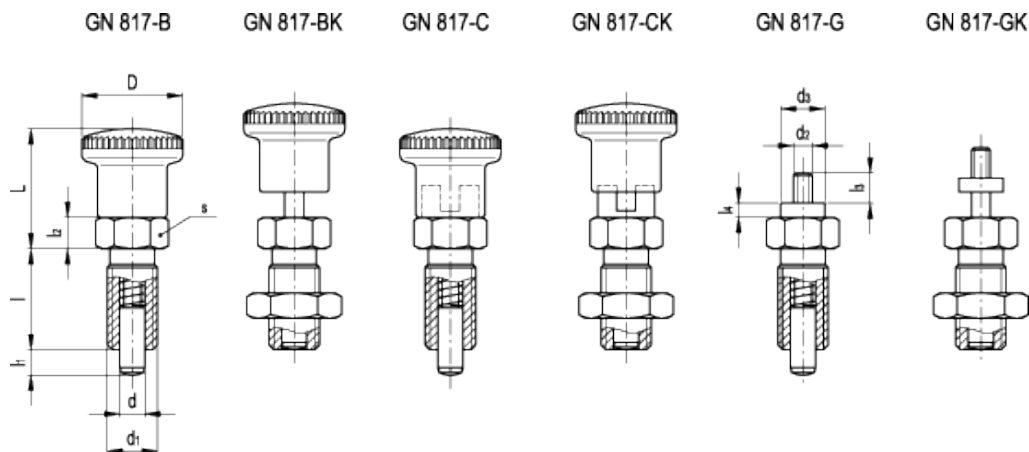
GN 817-5-5-G-NI	5	-	M10x1	M4	8	-	18	5	6	5.5	3	12	5	15	17
GN 817-5-8-G-NI	5	-	M10x1	M4	8	-	18	8	6	5.5	3	12	5	18	17
GN 817-6-6-G-NI	6	-	M12x1.5	M5	9	-	22	6	6	7	3.5	14	6.5	19	29
GN 817-6-9-G-NI	6	-	M12x1.5	M5	9	-	22	9	6	7	3.5	14	6	25	29
GN 817-8-8-G-NI	8	-	M16x1.5	M6	10	-	26	8	8	8.5	4	17	8.5	26	61
GN 817-8-12-G-NI	8	-	M16x1.5	M6	10	-	26	12	8	8.5	4	17	8.5	28	60
GN 817-10-12-G-NI	10	-	M16x1.5	M6	10	-	26	12	8	8.5	4	17	9.5	38	62
GN 817-12-15-G-NI	12	-	M20x1.5	M6	12	-	33	15	10	8.5	4	22	11.5	40	111
GN 817-4-4-GK-NI	4	-	M8x1	M3	7	-	16	4	5	4.5	2.5	10	4.5	12	11
GN 817-4-6-GK-NI	4	-	M8x1	M3	7	-	16	6	5	4.5	2.5	10	4	12.5	11
GN 817-5-5-GK-NI	5	-	M10x1	M4	8	-	18	5	6	5.5	3	12	5	15	18
GN 817-5-8-GK-NI	5	-	M10x1	M4	8	-	18	8	6	5.5	3	12	5	18	18
GN 817-6-6-GK-NI	6	-	M12x1.5	M5	9	-	22	6	6	7	3.5	14	6.5	19	30
GN 817-6-9-GK-NI	6	-	M12x1.5	M5	9	-	22	9	6	7	3.5	14	6	25	30
GN 817-8-8-GK-NI	8	-	M16x1.5	M6	10	-	26	8	8	8.5	4	17	8.5	26	62
GN 817-8-12-GK-NI	8	-	M16x1.5	M6	10	-	26	12	8	8.5	4	17	8.5	28	62
GN 817-10-12-GK-NI	10	-	M16x1.5	M6	10	-	26	12	8	8.5	4	17	9.5	38	64
GN 817-12-15-GK-NI	12	-	M20x1.5	M6	12	-	33	15	10	8.5	4	22	11.5	40	135



STANDARD MACHINE ELEMENTS WORLDWIDE

# GN 817

Indexing plungers



## technical informations

### Body

Black-oxide steel.

### Plunger

Hardened ground steel. Suggested matching hole in H8 tolerance.

### Locking nut

Black-oxide steel.

### Knurled knob

High impact strength polyamide based (PA) technopolymer, black colour, matte finish (execution B, BK). Resistant to solvents, oils, greases and other chemical agents.

### Knurled keyed knob

High impact strength special technopolymer, black colour, matte finish (execution C, CK). Resistant to solvents, oils, greases

and other chemical agents.

#### Standard executions available

- Version B: with knob, without locking nut.
- Version BK: with knob and locking nut, ISO 8675.
- Version C: with knob, without locking nut.
- Version CK: with knob and locking nut, ISO 8675.

#### Other standard executions available

Threaded drive rod for combination with knobs on customer's request or to link the rod to an operating mechanism of the machine.

- Version G: without locking nut.
- Version GK: with locking nut.

#### Features and applications

GN 817 indexing plungers offer the following advantages:

- two retracting strokes (I1) per plunger  $\varnothing$ ;
- identical small dimensions I for version B and C;
- retracting mechanism (version C) is shrouded in part;
- defined thread length by an undercut at the end of the thread.

Version C with keyed knob is used in all the applications where the plunger must not protrude continually. In that case the knob is retracted and afterwards turned by 90°. A notch is provided for the key to prevent the plunger from turning by error or vibration.

Standard Elements	Main dimensions													Spring pressure		Weight
Description	d <sub>-0.02 -0.04</sub>	L	d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub>	D	l	l <sub>1 min</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	s	Preload [N~]	Max load [N~]	g	
GN 817-4-4-B	4	19	M8x1	-	-	16	16	4	5	-	-	10	4.5	12	11	
GN 817-4-6-B	4	19	M8x1	-	-	16	16	6	5	-	-	10	4	12.5	11	
GN 817-5-5-B	5	22	M10x1	-	-	19	18	5	6	-	-	12	5	15	19	
GN 817-5-8-B	5	22	M10x1	-	-	19	18	8	6	-	-	12	5	18	19	
GN 817-6-6-B	6	26	M12x1.5	-	-	23	22	6	6	-	-	14	6.5	19	32	
GN 817-6-9-B	6	26	M12x1.5	-	-	23	22	9	6	-	-	14	6	25	32	
GN 817-8-8-B	8	32	M16x1.5	-	-	28	26	8	8	-	-	17	8.5	26	68	
GN 817-8-12-B	8	32	M16x1.5	-	-	28	26	12	8	-	-	17	8.5	28	67	
GN 817-10-12-B	10	32	M16x1.5	-	-	28	26	12	8	-	-	17	9.5	38	69	
GN 817-12-15-B	12	34	M20x1.5	-	-	28	33	15	10	-	-	22	11.5	40	117	
GN 817-4-4-BK	4	19	M8x1	-	-	16	16	4	5	-	-	10	4.5	12	12	
GN 817-4-6-BK	4	19	M8x1	-	-	16	16	6	5	-	-	10	4	12.5	12	
GN 817-5-5-BK	5	22	M10x1	-	-	19	18	5	6	-	-	12	5	15	20	
GN 817-5-8-BK	5	22	M10x1	-	-	19	18	8	6	-	-	12	5	18	20	
GN 817-6-6-BK	6	26	M12x1.5	-	-	23	22	6	6	-	-	14	6.5	19	33	
GN 817-6-9-BK	6	26	M12x1.5	-	-	23	22	9	6	-	-	14	6	25	33	
GN 817-8-8-BK	8	32	M16x1.5	-	-	28	26	8	8	-	-	17	8.5	26	69	
GN 817-8-12-BK	8	32	M16x1.5	-	-	28	26	12	8	-	-	17	8.5	28	69	
GN 817-10-12-BK	10	32	M16x1.5	-	-	28	26	12	8	-	-	17	9.5	38	71	
GN 817-12-15-BK	12	34	M20x1.5	-	-	28	33	15	10	-	-	22	11.5	40	151	
GN 817-4-4-C	4	19	M8x1	-	-	16	16	4	5	-	-	10	4.5	12	12	
GN 817-4-6-C	4	19	M8x1	-	-	16	16	6	5	-	-	10	4	12.5	13	
GN 817-5-5-C	5	22	M10x1	-	-	19	18	5	6	-	-	12	5	15	21	
GN 817-5-8-C	5	22	M10x1	-	-	19	18	8	6	-	-	12	5	18	22	
GN 817-6-6-C	6	26	M12x1.5	-	-	23	22	6	6	-	-	14	6.5	19	35	
GN 817-6-9-C	6	26	M12x1.5	-	-	23	22	9	6	-	-	14	6	25	36	
GN 817-8-8-C	8	32	M16x1.5	-	-	28	26	8	8	-	-	17	8.5	26	73	
GN 817-8-12-C	8	32	M16x1.5	-	-	28	26	12	8	-	-	17	8.5	28	71	
GN 817-10-12-C	10	32	M16x1.5	-	-	28	26	12	8	-	-	17	9.5	38	74	
GN 817-12-15-C	12	34	M20x1.5	-	-	28	33	15	10	-	-	22	11.5	40	125	
GN 817-4-4-CK	4	19	M8x1	-	-	16	16	4	5	-	-	10	4.5	12	13	
GN 817-4-6-CK	4	19	M8x1	-	-	16	16	6	5	-	-	10	4	12.5	13	
GN 817-5-5-CK	5	22	M10x1	-	-	19	18	5	6	-	-	12	5	15	22	
GN 817-5-8-CK	5	22	M10x1	-	-	19	18	8	6	-	-	12	5	18	22	
GN 817-6-6-CK	6	26	M12x1.5	-	-	23	22	6	6	-	-	14	6.5	19	36	
GN 817-6-9-CK	6	26	M12x1.5	-	-	23	22	9	6	-	-	14	6	25	37	
GN 817-8-8-CK	8	32	M16x1.5	-	-	28	26	8	8	-	-	17	8.5	26	75	
GN 817-8-12-CK	8	32	M16x1.5	-	-	28	26	12	8	-	-	17	8.5	28	72	
GN 817-10-12-CK	10	32	M16x1.5	-	-	28	26	12	8	-	-	17	9.5	38	77	
GN 817-12-15-CK	12	34	M20x1.5	-	-	28	33	15	10	-	-	22	11.5	40	151	
GN 817-4-4-G	4	-	M8x1	M3	7	-	16	4	5	4.5	2.5	10	4.5	12	10	
GN 817-4-6-G	4	-	M8x1	M3	7	-	16	6	5	4.5	2.5	10	4	12.5	10	

GN 817-5-5-G	5	-	M10x1	M4	8	-	18	5	6	5.5	3	12	5	15	17
GN 817-5-8-G	5	-	M10x1	M4	8	-	18	8	6	5.5	3	12	5	18	17
GN 817-6-6-G	6	-	M12x1.5	M5	9	-	22	6	6	7	3.5	14	6.5	19	29
GN 817-6-9-G	6	-	M12x1.5	M5	9	-	22	9	6	7	3.5	14	6	25	29
GN 817-8-8-G	8	-	M16x1.5	M6	10	-	26	8	8	8.5	4	17	8.5	26	61
GN 817-8-12-G	8	-	M16x1.5	M6	10	-	26	12	8	8.5	4	17	8.5	28	60
GN 817-10-12-G	10	-	M16x1.5	M6	10	-	26	12	8	8.5	4	17	9.5	38	62
GN 817-12-15-G	12	-	M20x1.5	M6	12	-	33	15	10	8.5	4	22	11.5	40	111
GN 817-4-4-GK	4	-	M8x1	M3	7	-	16	4	5	4.5	2.5	10	4.5	12	11
GN 817-4-6-GK	4	-	M8x1	M3	7	-	16	6	5	4.5	2.5	10	4	12.5	11
GN 817-5-5-GK	5	-	M10x1	M4	8	-	18	5	6	5.5	3	12	5	15	18
GN 817-5-8-GK	5	-	M10x1	M4	8	-	18	8	6	5.5	3	12	5	18	18
GN 817-6-6-GK	6	-	M12x1.5	M5	9	-	22	6	6	7	3.5	14	6.5	19	30
GN 817-6-9-GK	6	-	M12x1.5	M5	9	-	22	9	6	7	3.5	14	6	25	30
GN 817-8-8-GK	8	-	M16x1.5	M6	10	-	26	8	8	8.5	4	17	8.5	26	62
GN 817-8-12-GK	8	-	M16x1.5	M6	10	-	26	12	8	8.5	4	17	8.5	28	62
GN 817-10-12-GK	10	-	M16x1.5	M6	10	-	26	12	8	8.5	4	17	9.5	38	64
GN 817-12-15-GK	12	-	M20x1.5	M6	12	-	33	15	10	8.5	4	22	11.5	40	135



STANDARD MACHINE ELEMENTS WORLDWIDE