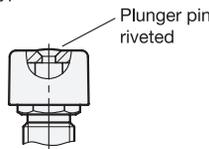


Type AN / AKN



**2 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

**1**

d <sub>1</sub> Pin $_{-0.02}^{-0.05}$ Bore H7	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>	A/F	w <sub>1</sub>	w <sub>2</sub>	Spring load in N ≈	
												Initial	End
6	M 12 x 1,5	19	15	6	38	20	44,5	9	13	3	9	8,5	25
8	M 16 x 1,5	25	19	8	46	26	54,5	11	17	3	11	18	44

\* only available in version A4

**Specification**

- Steel Blackened —
- Plunger pin Steel, nitrided
- Compression spring Stainless steel AISI 301
- Stainless steel AISI 316 **A4**
- Plunger pin Stainless steel AISI 316 Case hardened
- Compression spring Stainless steel 316Ti
- Knob (type A / AK) Plastic (Polyamide PA)
- Black, matte finish
- Not removable
- Knob (type AN / AKN) Stainless steel AISI 316 Not removable
- Load Rating Information → Page 2132
- ISO Fundamental Tolerances → Page 2151
- Plastic Characteristics → Page 2158
- Stainless Steel Characteristics → Page QVX
- RoHS

**3**

**Information**

Locking plungers GN 514 feature a cardioid curve mechanism based on the principle of a retractable pen. They offer very ergonomic operation that requires only repeated pressing of the knob. Thanks to their functional principle, they are well suited for use in tight conditions and are also easy to protect against improper operation, if necessary.

First the plunger pin is brought into the protruding position by pressing the knob. In this position, the cardioid curve mechanism automatically engages to lock the part. Pressing the knob again unlocks the mechanism since the plunger pin retracts automatically by spring force once the button is released. The plunger pin must not be subjected to any axial forces and must move easily.

The stainless steel design is suitable for applications in highly corrosive environments thanks to the A4 materials used.

see also...

- List of Indexing Plunger Types → Page 884 ff.
- Distance Bushings GN 609.5 (to Limit the Thread Length) → Page 952
- Positioning Bushings GN 412.2 / GN 412.4 → Page 954
- Thin Hex Nuts GN 909 / GN 909.5 → Page 953

How to order (Steel, with plastic knob)

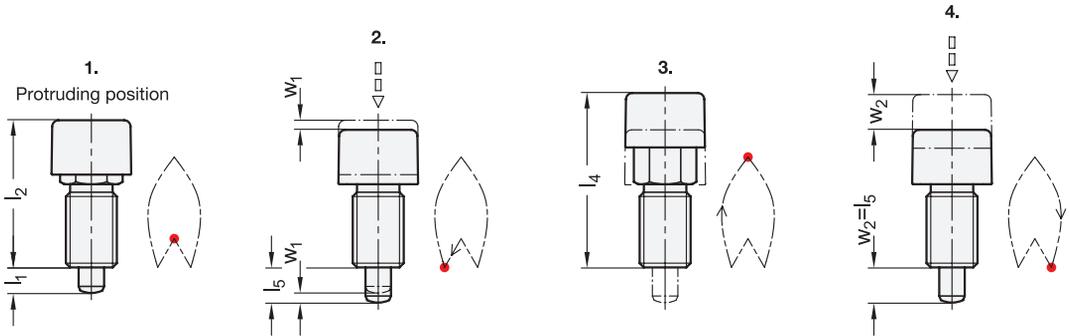
<b>GN 514-8-A</b>	<b>1</b> d <sub>1</sub>
	<b>2</b> Type

How to order (Stainless steel, with SST knob)

<b>GN 514-6-AKN-A4</b>	<b>1</b> d <sub>1</sub>
	<b>2</b> Type
	<b>3</b> Material

### Description of function

1. In the protruding position, the plunger pin protrudes by distance  $l_1$  and is locked.
2. The knob is pressed by distance  $w_1$ , thereby unlocking the plunger pin.
3. Then the plunger pin is retracted by the compression spring and held in the retracted position.
4. The knob is pressed by distance  $w_2$  and locks again in the protruding position after release.



### Application examples

