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TYPES

- Type **B**: without rest position
- Type **C**: with rest position

IDENTIFICATION

- **FH**: knob side Hygienic Design (front hygiene)
- **VH**: knob and pin side Hygienic Design (full hygiene)

Stainless Steel

AISI 316

Plunger pin case hardened

Spring

Stainless Steel AISI 316Ti

Seals, blue, FDA compliant temperature resistant -25 °C to +110 °C

Sealing ring

H-NBR **H**

Hardness 85±5 Shore A

Wiper

TPU

Hardness 95±5 Shore A

All moving parts lubricated with FDA-compliant special grease

FEATURES AND APPLICATIONS

Both the **FH** and **VH** identifiers of the indexing plungers with rest position are used in applications in which the tip must remain in a retracted position. In that case, the knob is retracted and afterwards turned by 90°. A notch keeps the plunger in this position. GN 8170 indexing plungers are certified according to DGUV Test.

Identification **FH**: knob side Hygienic Design (front hygiene): stainless Steel-Indexing plungers GN 8170 are intended for use in hygienic areas and meet hygiene requirements on the knob side (front hygiene).

Wipers between knob and guide and between guide and pin as well as sealing rings on the guide and sealing nut keep the locking mechanism leak-tight. The finish quality of stainless steel parts prevents dirt adhering and facilitates cleaning. Mounting holes and through-holes in the housing must be at a right angle, free of burrs and without a chamfer. This ensures that the sealing rings will function properly.

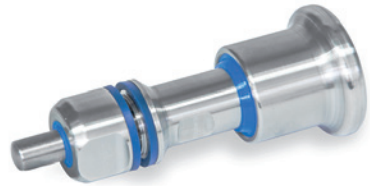
Identification **VH**: knob and pin side Hygienic Design (full hygiene): stainless Steel-Indexing plungers GN 8170 are intended for use in hygienic areas, and with their additional sealing nuts, they meet hygiene requirements on the knob and pin sides (complete hygiene).

Wipers between knob and guide and between guide and pin as well as sealing rings on the guide and sealing nut keep the locking mechanism leak-tight. The finish quality of stainless steel parts prevents dirt adhering and facilitates cleaning. Through-holes in the housing must be at a right angle, free of burrs and without a chamfer. This ensures that the sealing rings will function properly.

See technical data Hygienic Design (see page -).

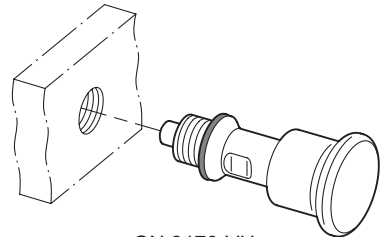


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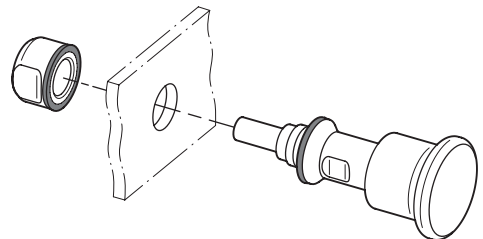


Mounting examples

GN 8170-FH

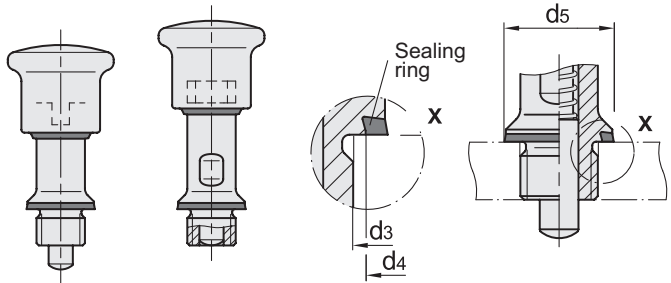
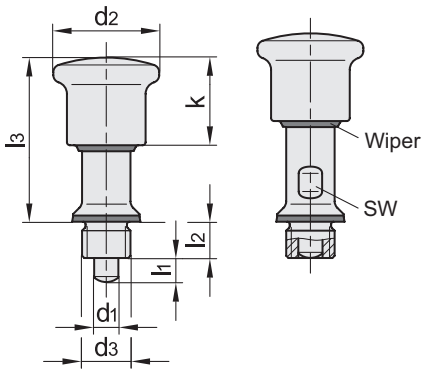


GN 8170-VH



GN 8170-B-FH

GN 8170-C-FH



GN 8170-B-FH

INOX STAINLESS STEEL

| Code | Description | d1 Plunger ⌀ Hole H8 | d2 | d3 | d4 | d5 | k | l1 | l2 | l3 | sw | Spring preload [N] | Spring max load [N] | ⚖️ |
|----------|------------------|----------------------------|----|---------|----|------|----|----|----|------|----|--------------------------|---------------------------|-----|
| GN.81701 | GN 8170-6-B-FH-H | 6 | 35 | M12x1.5 | 18 | 22.8 | 29 | 6 | 12 | 49.8 | 14 | 20 | 36 | 178 |
| GN.81711 | GN 8170-8-B-FH-H | 8 | 35 | M16x1.5 | 18 | 22.8 | 29 | 8 | 12 | 54.3 | 14 | 22 | 32 | 195 |

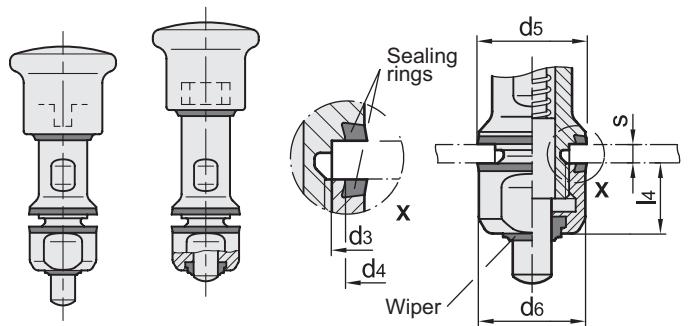
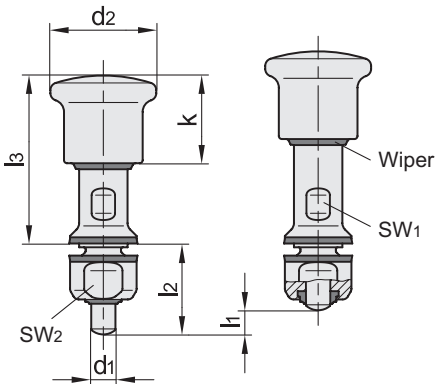
GN 8170-C-FH

INOX STAINLESS STEEL

| Code | Description | d1 Plunger ⌀ Hole H8 | d2 | d3 | d4 | d5 | k | l1 | l2 | l3 | sw | Spring preload [N] | Spring max load [N] | ⚖️ |
|----------|------------------|----------------------------|----|---------|----|------|----|----|----|------|----|--------------------------|---------------------------|-----|
| GN.81706 | GN 8170-6-C-FH-H | 6 | 35 | M12x1.5 | 18 | 22.8 | 29 | 6 | 12 | 49.8 | 14 | 20 | 36 | 169 |
| GN.81716 | GN 8170-8-C-FH-H | 8 | 35 | M16x1.5 | 18 | 22.8 | 29 | 8 | 12 | 54.3 | 14 | 22 | 32 | 190 |

GN 8170-B-VH

GN 8170-C-VH



GN 8170-B-VH

INOX STAINLESS STEEL

| Code | Description | d1 Plunger ⌀ Hole H8 | d2 | d3-0.1 | d4 | d5 | d6 | k | l1 | l2 | l3 | l4 | s min. | s max. | sw1 | sw2 | Spring preload [N] | Spring max load [N] | ⚖️ |
|----------|------------------|----------------------------|----|--------|----|------|----|----|----|------|------|------|--------|--------|-----|-----|--------------------------|---------------------------|-----|
| GN.81702 | GN 8170-6-B-VH-H | 6 | 35 | 16 | 18 | 22.8 | 22 | 29 | 6 | 27.5 | 50.5 | 14.5 | 1.5 | 4 | 14 | 18 | 20 | 36 | 208 |
| GN.81712 | GN 8170-8-B-VH-H | 8 | 35 | 16 | 18 | 22.8 | 22 | 29 | 8 | 29.5 | 55.5 | 14.5 | 1.5 | 4 | 14 | 18 | 22 | 32 | 217 |

GN 8170-C-VH

INOX STAINLESS STEEL

| Code | Description | d1 Plunger ⌀ Hole H8 | d2 | d3-0.1 | d4 | d5 | d6 | k | l1 | l2 | l3 | l4 | s min. | s max. | sw1 | sw2 | Spring preload [N] | Spring max load [N] | ⚖️ |
|----------|------------------|----------------------------|----|--------|----|------|----|----|----|------|------|------|--------|--------|-----|-----|--------------------------|---------------------------|-----|
| GN.81707 | GN 8170-6-C-VH-H | 6 | 35 | 16 | 18 | 22.8 | 22 | 29 | 6 | 27.5 | 50.5 | 14.5 | 1.5 | 4 | 14 | 18 | 20 | 36 | 199 |
| GN.81717 | GN 8170-8-C-VH-H | 8 | 35 | 16 | 18 | 22.8 | 22 | 29 | 8 | 29.5 | 55.5 | 14.5 | 1.5 | 4 | 14 | 18 | 22 | 32 | 212 |

