



2 Type

- B Non lock-out
- C Lock-out

3 Identification

VH With sealing lock nut, knob and pin side in Hygienic Design

Metric table

Dimensions in: millimeters - inches

d ₁ Pin f8 Bore H8	d ₂	d ₃ -0.1	d ₄	d ₅	d ₆	l ₁	l ₂	l ₃	l ₄	k	s Clamping distance		A/F ₁	A/F ₂	Spring load ≈	
											min.	max.			Initial	End
6 0.24	35 1.38	16 0.63	18 0.71	22.8 0.90	22 0.87	6 0.24	27.5 1.08	50.5 1.99	14.5 0.57	29 1.14	1.5 0.06	4 0.16	14 0.55	18 0.71	20 N 4.50 lbf	36 N 8.09 lbf
8 0.31	35 1.38	16 0.63	18 0.71	22.8 0.90	22 0.87	8 0.31	29.5 1.16	55.5 2.19	14.5 0.57	29 1.14	1.5 0.06	4 0.16	14 0.55	18 0.71	22 N 4.95 lbf	32 N 7.19 lbf

Specification

- Threaded body / knob / plunger pin
Stainless steel AISI 316
Plunger pin case-hardened
- Spring
Stainless steel AISI 316Ti
- Seals
 - Blue
 - Temperature resistant from
-13 °F to +230 °F (-25 °C to +110 °C)
 - FDA compliant
 - Sealing rings
H-NBR, hardness 85 ±5 shore A **H**
 - Wiper
TPU, hardness 95 ±5 shore A
- All moving parts are lubricated with a special, FDA compliant grease
- Load Rating Information → page 2103
- ISO Fundamental Tolerances → page 2129
- Plastic Characteristics → page 2135
- Stainless Steel Characteristics → page 2143
- RoHS compliant

Information

GN 8170 indexing plungers are certified according to DGUV Test and, with their additional sealing lock nut, meet hygienic requirements on the knob and pin side. Wipers between knob and threaded body and between threaded body and pin as well as sealing rings on the threaded body and sealing lock nut keep the mechanics sealed. The high surface quality (Ra < 0.8 µm) and the free of dead-space mounting prevent dirt from adhering and facilitate cleaning.

Indexing plungers with lock-out (type C) 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.

Through-holes in the housing must be drilled at a right angle, free of burrs and without a chamfer. This ensures that the sealing rings will function after being mounted.

see also...

- Product Family *Hygienic Design* → page 16
- List of *Indexing Plunger Types* → page 915

How to order

GN8170-6-B-VH-H

- 1 Pin diameter d₁
- 2 Type
- 3 Identification
- 4 Sealing ring material

3.1
3.2
3.3
3.4
3.5
3.6
3.7
3.8
3.9
3.10