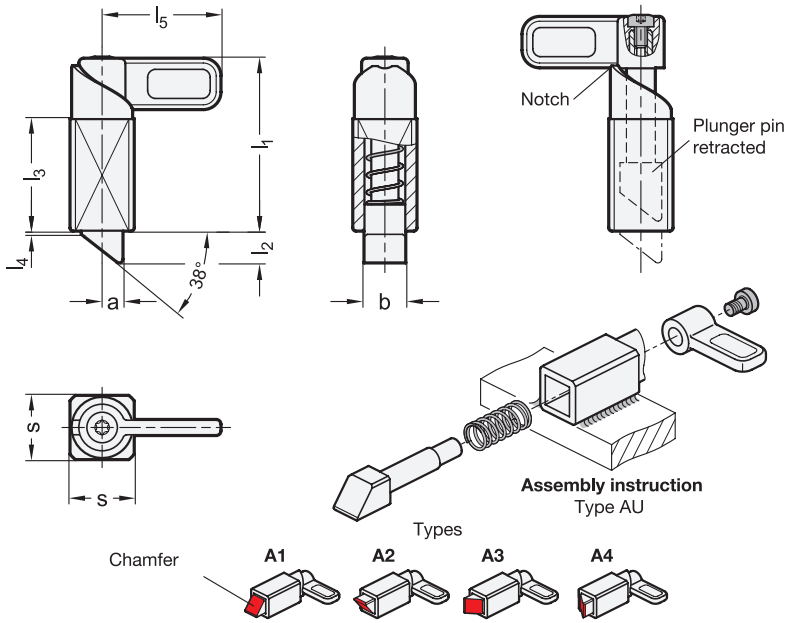
Cam Action Indexing Plungers

Steel / Stainless Steel, with Chamfered Pin, Weldable



Metric

SS Stainless Steel

3 Type

A1 Chamfer, top
A2 Chamfer, bottom
A3 Chamfer, right
A4 Chamfer, left
AU Unassembled

Metric table

Dimensions in: millimeters / inches

1 b	2 s	a	l_1 ≈	l_2	l_3	l_4	l_5	Spring load ≈ Initial	Spring load ≈ End
13 0.51	20 0.79	6.5 0.26	54 2.13	10 0.39	35 1.38	1 0.04	37 1.46	14 N 3.15 lbf	35 N 7.87 lbf
20 0.79	30 1.18	10 0.39	84 3.31	15 0.59	54 2.13	1.5 0.06	55 2.17	22 N 4.95 lbf	70 N 15.74 lbf

Specification

4

Guide
- Steel precision casting — **ST**
  Weldable, blackened finish
- Stainless steel precision casting AISI CF-8 — **NI**
  Weldable

Latch arm
- Steel precision casting
  Zinc plated, blue passivated finish (for ST)
- Stainless steel precision casting AISI CF-8 (for NI)

Plunger pin
- Steel, hardened
  Zinc plated, blue passivated finish (for ST)
- Stainless steel AISI 431, hardened (for NI)

Socket button head screw DIN 7985
- Steel, zinc plated (for ST)
- Stainless steel AISI 304 (for NI)

Compression spring
Stainless steel AISI 316Ti

RoHS

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Cam action spring latches GN 724.1 have a plunger pin with square cross-section, a latching surface on one side and a chamfer on the other. When moving in the direction of the chamfered pin, the plunger pin passes over grooves and edges, as the chamfered pin moves the plunger pin into the guide. The plunger pin automatically latches into place when moved toward the latching surface. The latching can be released by pulling the latch arm.

The notch at the upper end of the curve causes the latch to be held in place if the plunger pin needs to be kept temporarily from protruding.

The dimensional tolerances between plunger pin and guide are selected so that the functional reliability is guaranteed even after welding, applying a corrosion protection layer or in case of contamination. For type AU, the latching mechanism must be lubricated during installation, types A1, A2, A3 and A4 are pre-lubricated. The latching mechanism can be re-lubricated if necessary.

For fastening by welding, the unassembled type AU is particularly recommended to avoid changes to the microstructure of the material due to heating of the spring and plunger pin. In this case, the spring latch is assembled only after the surface treatment of the welded guide.

How to order

1 2 3 4
GN 724.1-20-30-AU-NI

1	Width b
2	Square s
3	Type
4	Material

Cam Action Indexing Plungers with Chamfered Pin

Appliaction Examples