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Spring Plungers • smooth, without collar, with moveable ball
EH 22081.



Product Description

Spring plungers can be used for locking as well as for applying or ejecting pressure.
The mounting of the ball allows it to roll, thereby minimising wear on the counterpart. Depending on the counterpart, this also has a positive effect on the resting behaviour.
Another advantage of the plastic ball is the electric insulation.

Material

Body
- Stainless steel 1.4305

Bearing
- plastic

Ball
- Stainless steel, hardened

Spring
- Stainless steel

Assembly

The locating hole has to be adapted to each individual application case. For transition fits, we recommend an F8 fit; for press fits, an H9 fit.

More information

Notes

Customized design on request.
Spring plungers are specially tested for spring range and spring load.

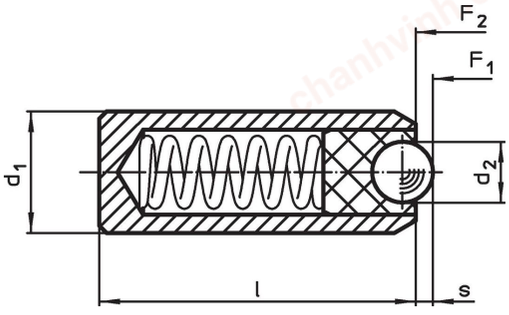
References

Calculation of indexing resistance, please refer to application example

Further products

- Spring Plungers, smooth, without collar
- Locators, bolt-on, for spring plungers
- Locators, smooth, for spring plungers

Drawing



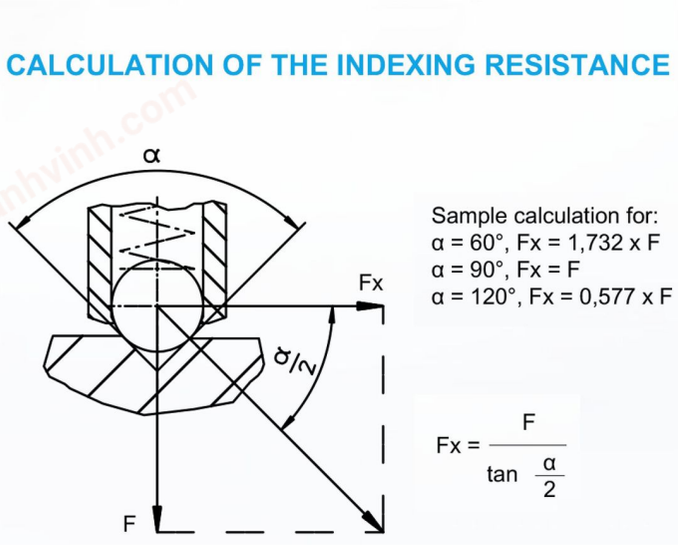
Order information

Dimensions			Stroke	Spring load[1]				Location hole transition fit F8 / press fit H9		Art. No.
d_1 ±0.04	d_2	l	s	F_1 ~	F_2 ~	min.	max.			
[mm]			[mm]	[N]		[°C]		[mm]	[g]	
body and ball from stainless steel										
4	2.0	11	0.50	4.8	6.8	-30	90	4	0.6	22081.0315
5	2.5	13	0.70	6.3	10.0	-30	90	5	1.3	22081.0320
6	3.5	15	0.95	16.0	24.0	-30	90	6	2.0	22081.0325
8	4.5	18	1.40	18.8	31.7	-30	90	8	4.3	22081.0327
10	6.5	20	2.50	24.0	49.0	-30	90	10	7.1	22081.0330
12	8.5	22	3.10	38.0	68.0	-30	90	12	11.0	22081.0332

[1] statistical average value

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Application example



Compliance

RoHS-compliant
Compliant with Directive 2011/65/EU [RoHS].

Does not contain SVHC substances
No SVHC substances with more than 0.1% w/w contained - SVHC list [REACH] as of 04.02.2026.

SCIP-code
N/A

Does not contain Proposition 65 substances
No Proposition 65 substances included.
https://www.P65Warnings.ca.gov/

Free from Conflict Minerals
This product does not contain any substances designated as "conflict minerals" such as tantalum, tin, gold or tungsten from the Democratic Republic of Congo or adjacent countries.

POP-compliant
Contains no persistent organic pollutants – Stockholm Convention [POP] as of September 2025.

PFAS-compliant
Contains no per- and polyfluoroalkyl substances (PFAS).

TSCA-compliant
Agent concentration in this product does not exceed the specified threshold.