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Spring Plungers • smooth, with collar and ball, self-clamping
EH 22080.



Product Description

Spring plungers can be used for locking as well as for applying or ejecting pressure.
Due to the expanding fit of the body, the spring plungers compensate for locating bore tolerances of up to 0.2 mm. This allows machining costs for the locating bore to be reduced.

Material

Body
- Thermoplastic POM, black

Ball
- Stainless steel, hardened
- Thermoplastic POM, white

Spring
- Stainless steel

Assembly

Thanks to the flexible design of the body, a direct manual mounting and a secure overhead installation is possible.

More information

Notes

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

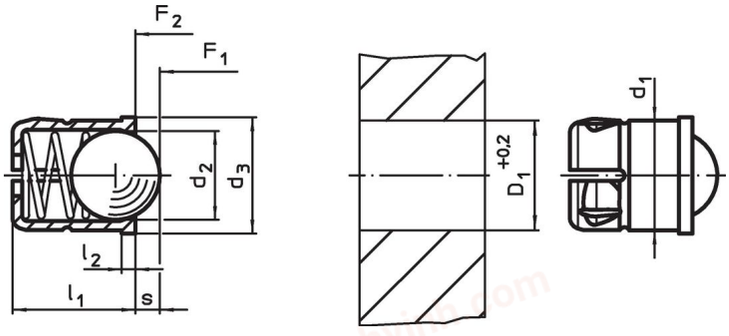
References

Calculation of indexing resistance, please refer to application example

Further products

- Spring Plungers, smooth, with collar and ball
- Locators, bolt-on, for spring plungers
- Locators, smooth, for spring plungers
- Spring Plungers, smooth, with collar and ball, self-clamping – INCH

Drawing



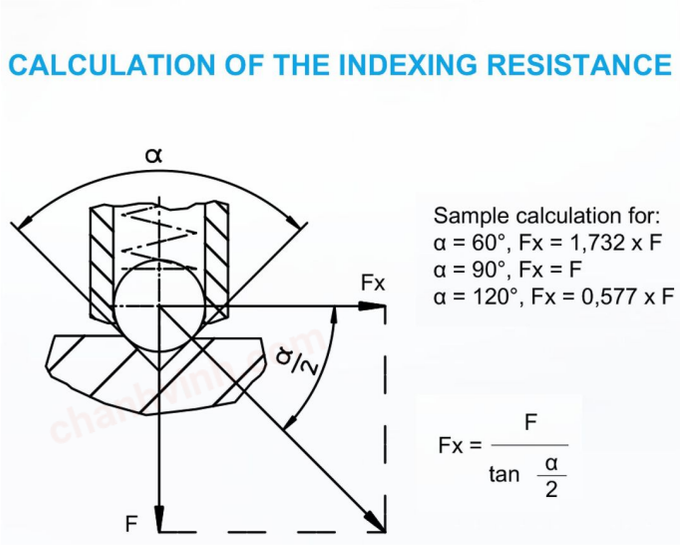
Order information

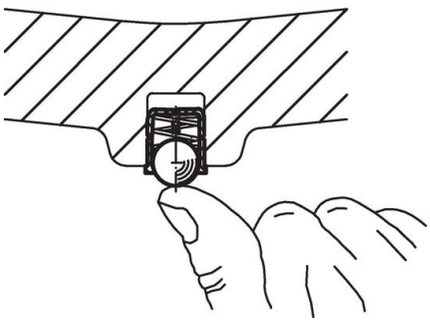
Dimensions					Stroke	Spring load[1]				Location hole		Art. No.
d_1 +0.1	d_2	d_3	l_1 ±0.2	l_2 ~	s	F_1 ~	F_2 ~	min.	max.	D_1 +0.2		
[mm]					[mm]	[N]		[°C]		[mm]	[g]	
thermoplastic body, stainless steel ball												
4	3.0	4.6	5.0	1.0	0.8	3.0	6.5	-30	50	4	0.2	22080.0704
5	4.0	5.6	6.0	1.0	1.0	6.0	9.4	-30	50	5	0.4	22080.0705
6	5.0	6.5	7.0	1.0	1.6	6.2	12.6	-30	50	6	0.6	22080.0706
8	6.5	8.5	9.0	1.0	1.9	10.0	20.4	-30	50	8	1.5	22080.0708
10	8.0	11.0	13.5	1.5	2.4	11.9	22.3	-30	50	10	3.1	22080.0710
body and ball from thermoplastic												
4	3.0	4.6	5.0	1.0	0.8	3.0	6.5	-30	50	4	0.1	22080.0804
5	4.0	5.6	6.0	1.0	1.0	6.0	9.4	-30	50	5	0.1	22080.0805
6	5.0	6.5	7.0	1.0	1.6	6.2	12.6	-30	50	6	0.2	22080.0806
8	6.5	8.5	9.0	1.0	1.9	10.0	20.4	-30	50	8	0.5	22080.0808
10	8.0	11.0	13.5	1.5	2.4	11.9	22.3	-30	50	10	1.4	22080.0810

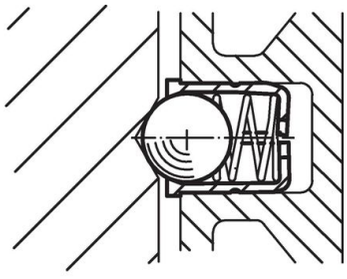
[1] statistical average value

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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.