

## Spring Plungers · with moveable ceramic ball and slot, stainless steel A4

EH 22051.



### Product Description

Spring plungers can be used for locating or for applying pressure, as a detent or for ejection. The running of the ball minimises wear on the counterpart, this also results in a positive locking behaviour depending on the counterpart.

Another advantage of the moveable ceramic ball is the electric insulation.

Characteristics of the ceramic ball:

- Highly impact-resistant
- Abrasion resistant
- Antimagnetic
- Electrically isolating

The stainless steel A4 version ensures maximum corrosion resistance.

### Material

#### Body

- Stainless steel A4

#### Bearing

- plastic

#### Ball

- Ceramic

#### Spring

- stainless steel

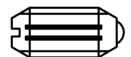
### Characteristic

Standard spring load: no marking

Reinforced spring load: marked with two lines



Standard spring load



Heavy spring load

### More information

#### Notes

Special types on request.

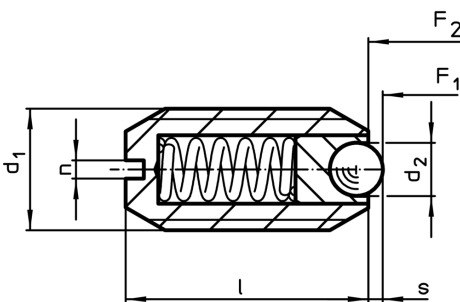
Spring plungers are specially tested for spring range and forces.

#### References

Thread lock on request, please refer to appendix - Technical Data -

Calculation of indexing resistance, see details at the start of the section.

### Drawing



### Order information

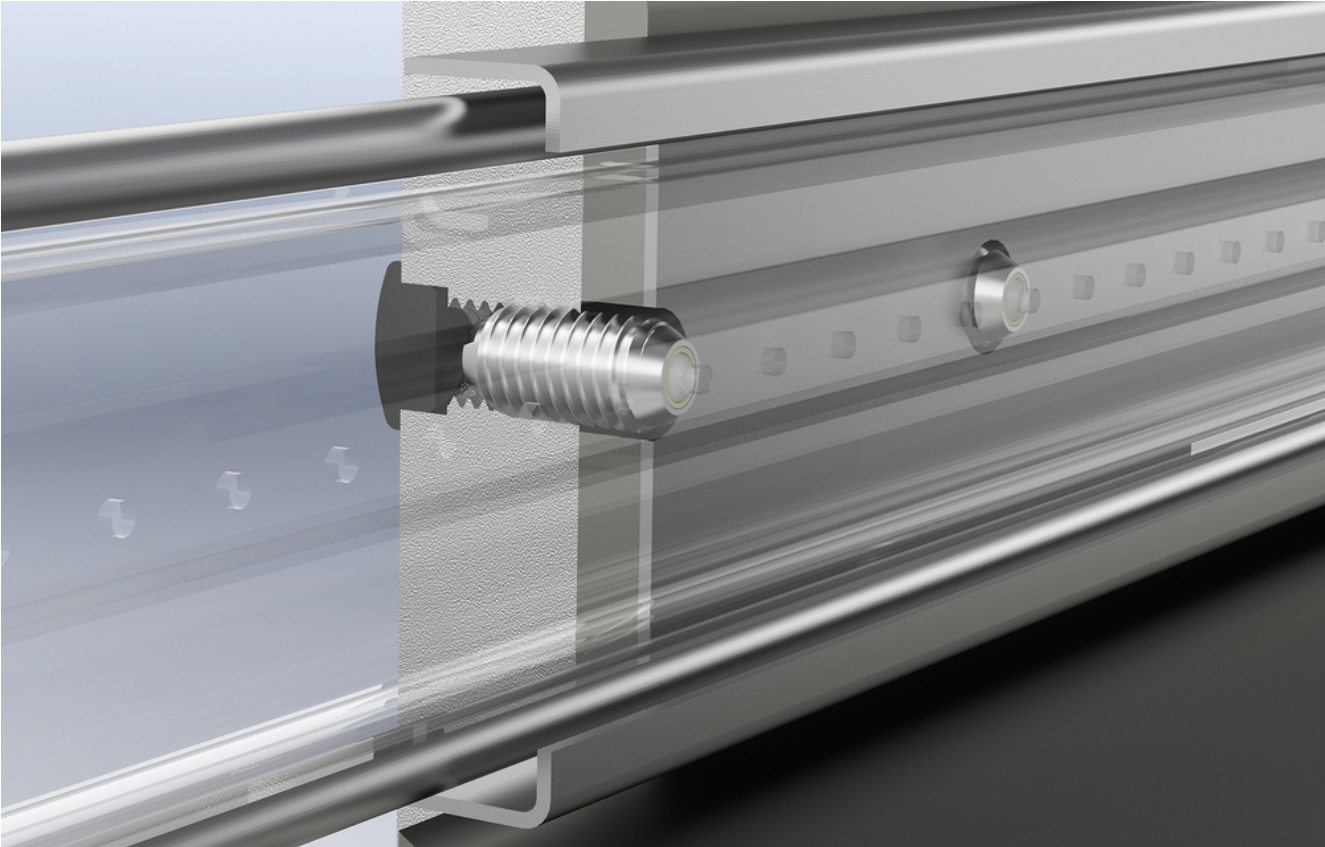
d <sub>1</sub>	Dimensions			Stroke s [mm]	Spring load <sup>1)</sup>		Temperature		Weight [g]	Art. No.
	d <sub>2</sub>	l	n		F <sub>1</sub>	F <sub>2</sub>	min.	max.		
[mm]										
[N]										
[°C]										
[g]										
<b>Standard spring load</b>										
M 5	2.0	12	0.8	0.50	4.8	6.8	-30	90	0.85	<a href="#">22051.0505</a>
M 6	2.5	14	1.0	0.70	6.3	10.0	-30	90	1.49	<a href="#">22051.0506</a>
M 8	3.5	16	1.2	0.95	16.1	24.0	-30	90	3.24	<a href="#">22051.0508</a>
M10	4.5	19	1.5	1.40	18.8	31.7	-30	90	5.76	<a href="#">22051.0510</a>
M12	6.5	22	2.0	2.50	24.0	49.0	-30	90	8.90	<a href="#">22051.0512</a>
M16	8.5	24	2.0	3.10	38.0	68.0	-30	90	19.20	<a href="#">22051.0516</a>

<sup>1)</sup> statistical average value

d <sub>1</sub>	Dimensions			Stroke s [mm]	Spring load <sup>1)</sup>		min.   max. [°C]		[g]	Art. No.
	d <sub>2</sub>	l	n		F <sub>1</sub>	F <sub>2</sub>				
[mm]					[N]					
<b>reinforced spring load</b>										
<b>M 5</b>	2.0	12	0.8	0.50	10.0	14.0	-30	90	0.86	<a href="#">22051.0705</a>
<b>M 6</b>	2.5	14	1.0	0.70	11.0	16.0	-30	90	1.51	<a href="#">22051.0706</a>
<b>M 8</b>	3.5	16	1.2	0.95	22.9	40.0	-30	90	3.31	<a href="#">22051.0708</a>
<b>M10</b>	4.5	19	1.5	1.40	28.1	54.3	-30	90	5.80	<a href="#">22051.0710</a>
<b>M12</b>	6.5	22	2.0	2.50	36.5	77.3	-30	90	9.02	<a href="#">22051.0712</a>
<b>M16</b>	8.5	24	2.0	3.10	50.0	88.7	-30	90	19.30	<a href="#">22051.0716</a>

<sup>1)</sup> statistical average value

### Application example



### Compliance

#### RoHS compliant

Compliant according to Directive 2011/65/EU and Directive 2015/863

#### Does not contain SVHC substances

No SVHC substances with more than 0.1% w/w contained - SVHC list [REACH] as of 10.06.2022

#### 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.