

## Spring Plungers · with ball and slot

EH 22050.



### Product Description

Spring plungers can be used for locating or for applying pressure, as a detent or for ejection.

#### Material

##### Body

- Free cutting steel, blackened
- Stainless steel 1.4305

##### Ball

- Ball-bearing steel, hardened
- Stainless steel, hardened

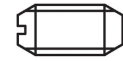
##### Spring

- Stainless steel

#### Characteristic

Standard spring load: no marking

Heavy spring load: marked with two lines



Standard spring load



Heavy spring load

#### More information

#### Notes

Customized design on request.

Spring plungers are specially tested for spring range and forces.

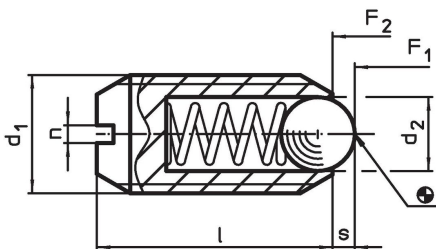
#### References

Thread lock on request, please refer to appendix - Technical Data -  
Calculation of indexing resistance, please refer to appendix - Technical Data -

#### Further products

- Locators, with bore hole, for spring plungers
- Locators, smooth, for spring plungers
- Holders, for spring plungers
- Spring Plungers, with ball and slot - INCH

### Drawing



### Order information

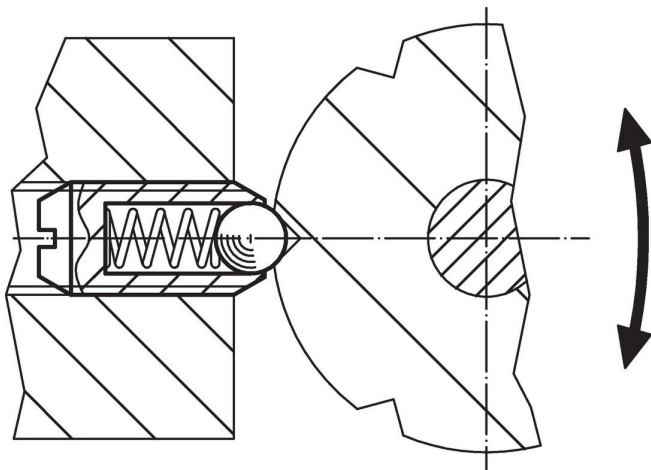
Dimensions				Stroke s [mm]	Spring load <sup>1)</sup>		max. [°C]	[g]	Art. No.
d <sub>1</sub>	d <sub>2</sub>	l	n		F <sub>1</sub> ~ [N]	F <sub>2</sub> ~ [N]			
[mm]									
<b>free cutting steel, standard spring load</b>									
M 2	1.0	4	0.25	0.3	0.8	1.5	250	0.1	22050.0002
M 3	1.5	7	0.40	0.4	3.0	4.5	250	0.2	22050.0003
M 4	2.5	9	0.60	0.8	8.5	14.0	250	0.4	22050.0004
M 5	3.0	12	0.80	0.9	8.0	14.0	250	1.0	22050.0005
M 6	3.5	14	1.00	1.0	11.0	18.0	250	1.7	22050.0006
M 8	4.5	16	1.20	1.5	18.0	31.0	250	3.5	22050.0008
M10	6.0	19	1.50	2.0	24.0	45.0	250	6.5	22050.0010
M12	8.0	22	2.00	2.5	26.0	49.0	250	11.0	22050.0012
M16	10.0	24	2.00	3.5	41.0	86.0	250	22.0	22050.0016
M20	12.0	30	2.50	4.5	56.0	111.0	250	45.0	22050.0020
M24	15.0	34	3.00	5.5	81.0	151.0	250	72.0	22050.0024

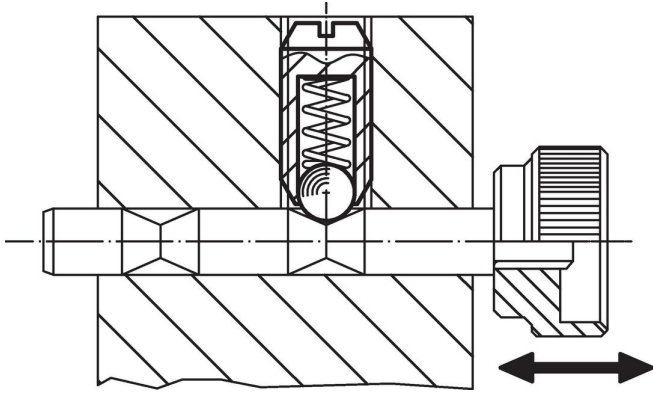
<sup>1)</sup> statistical average value

d <sub>1</sub>	Dimensions			Stroke s [mm]	Spring load <sup>1)</sup>		max. [°C]	[g]	Art. No.
	d <sub>2</sub>	l	n		F <sub>1</sub> ~ [N]	F <sub>2</sub> ~ [N]			
<b>free cutting steel, heavy spring load</b>									
M 2	1.0	4	0.25	0.3	1.6	2.0	250	0.1	<a href="#">22050.0202</a>
M 3	1.5	7	0.40	0.4	6.4	9.5	250	0.3	<a href="#">22050.0203</a>
M 4	2.5	9	0.60	0.8	12.0	18.0	250	0.4	<a href="#">22050.0204</a>
M 5	3.0	12	0.80	0.9	15.0	22.0	250	1.0	<a href="#">22050.0205</a>
M 6	3.5	14	1.00	1.0	19.0	28.0	250	1.7	<a href="#">22050.0206</a>
M 8	4.5	16	1.20	1.5	36.0	62.0	250	3.6	<a href="#">22050.0208</a>
M10	6.0	19	1.50	2.0	57.0	104.0	250	6.7	<a href="#">22050.0210</a>
M12	8.0	22	2.00	2.5	61.0	110.0	250	11.0	<a href="#">22050.0212</a>
M16	10.0	24	2.00	3.5	68.0	142.0	250	23.0	<a href="#">22050.0216</a>
M20	12.0	30	2.50	4.5	84.0	166.0	250	45.0	<a href="#">22050.0220</a>
M24	15.0	34	3.00	5.5	127.0	237.0	250	72.0	<a href="#">22050.0224</a>
<b>stainless steel, standard spring load</b>									
M 2	1.0	4	0.25	0.3	0.8	1.5	250	0.1	<a href="#">22050.0402</a>
M 3	1.5	7	0.40	0.4	3.0	4.5	250	0.2	<a href="#">22050.0403</a>
M 4	2.5	9	0.60	0.8	8.5	14.0	250	0.5	<a href="#">22050.0404</a>
M 5	3.0	12	0.80	0.9	8.0	14.0	250	1.0	<a href="#">22050.0405</a>
M 6	3.5	14	1.00	1.0	11.0	18.0	250	1.7	<a href="#">22050.0406</a>
M 8	4.5	16	1.20	1.5	18.0	31.0	250	3.6	<a href="#">22050.0408</a>
M10	6.0	19	1.50	2.0	24.0	45.0	250	6.6	<a href="#">22050.0410</a>
M12	8.0	22	2.00	2.5	26.0	49.0	250	11.0	<a href="#">22050.0412</a>
M16	10.0	24	2.00	3.5	41.0	86.0	250	22.0	<a href="#">22050.0416</a>
M20	12.0	30	2.50	4.5	56.0	111.0	250	45.0	<a href="#">22050.0420</a>
M24	15.0	34	3.00	5.5	81.0	151.0	250	73.0	<a href="#">22050.0424</a>
<b>stainless steel, heavy spring load</b>									
M 2	1.0	4	0.25	0.3	1.6	2.0	250	0.1	<a href="#">22050.0602</a>
M 3	1.5	7	0.40	0.4	6.4	9.5	250	0.3	<a href="#">22050.0603</a>
M 4	2.5	9	0.60	0.8	12.0	18.0	250	0.5	<a href="#">22050.0604</a>
M 5	3.0	12	0.80	0.9	15.0	22.0	250	1.0	<a href="#">22050.0605</a>
M 6	3.5	14	1.00	1.0	19.0	28.0	250	1.7	<a href="#">22050.0606</a>
M 8	4.5	16	1.20	1.5	36.0	62.0	250	3.7	<a href="#">22050.0608</a>
M10	6.0	19	1.50	2.0	57.0	104.0	250	6.8	<a href="#">22050.0610</a>
M12	8.0	22	2.00	2.5	61.0	110.0	250	11.0	<a href="#">22050.0612</a>
M16	10.0	24	2.00	3.5	68.0	142.0	250	23.0	<a href="#">22050.0616</a>
M20	12.0	30	2.50	4.5	84.0	166.0	250	45.0	<a href="#">22050.0620</a>
M24	15.0	34	3.00	5.5	127.0	237.0	250	73.0	<a href="#">22050.0624</a>

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

### Application example





## Compliance

For detailed compliance information please select the desired article number.