

## Spring Plungers · with ball and internal hexagon

### EH 22030.

#### 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

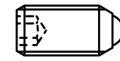
##### Spring

- stainless steel

#### Characteristic

Standard spring load: no marking

Reinforced spring load: marked with two lines



Standard spring load



Heavy spring load

#### More information

#### Notes

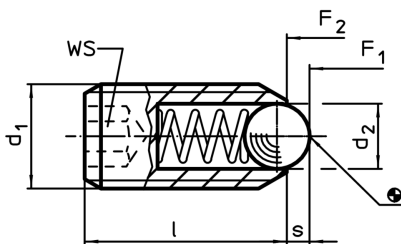
Special types on request.

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

Dimensions			WS	Stroke s	Spring load <sup>1)</sup>		max. [°C]	[g]	Art. No.
d <sub>1</sub>	d <sub>2</sub>	l			F <sub>1</sub>	F <sub>2</sub>			
[mm]			[mm]	[mm]	[N]	[N]			
<b>free cutting steel, standard spring load</b>									
M 3	1.5	8	1.5	0.4	3.0	4.5	250	0.2	22030.0003
M 4	2.5	12	2.0	0.8	8.5	14.0	250	0.6	22030.0004
M 5	3.0	14	2.5	0.9	8.0	14.0	250	1.2	22030.0005
M 6	3.5	15	3.0	1.0	11.0	18.0	250	1.7	22030.0006
M 8	4.5	18	4.0	1.5	18.0	31.0	250	3.9	22030.0008
M10	6.0	23	5.0	2.0	24.0	45.0	250	8.0	22030.0010
M12	8.0	26	6.0	2.5	26.0	49.0	250	13.0	22030.0012
M16	10.0	33	8.0	3.5	41.0	86.0	250	32.0	22030.0016
M20	12.0	43	10.0	4.5	56.0	111.0	250	67.0	22030.0020
M24	15.0	48	12.0	5.5	81.0	151.0	250	106.0	22030.0024
<b>free cutting steel, heavy spring load</b>									
M 4	2.5	12	2.0	0.8	12.0	18.0	250	0.6	22030.0044
M 5	3.0	14	2.5	0.9	15.0	22.0	250	1.2	22030.0045
M 6	3.5	15	3.0	1.0	19.0	28.0	250	1.7	22030.0046
M 8	4.5	18	4.0	1.5	36.0	62.0	250	4.0	22030.0048
M10	6.0	23	5.0	2.0	57.0	104.0	250	8.2	22030.0050

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

d <sub>1</sub>	Dimensions		WS [mm]	Stroke s [mm]	Spring load <sup>1)</sup>		max. [°C]	[g]	Art. No.
	d <sub>2</sub> [mm]	l			F <sub>1</sub> ~ [N]	F <sub>2</sub> ~ [N]			
M12	8.0	26	6.0	2.5	61.0	110.0	250	13.0	<a href="#">22030.0052</a>
M16	10.0	33	8.0	3.5	68.0	142.0	250	32.0	<a href="#">22030.0056</a>
M20	12.0	43	10.0	4.5	84.0	166.0	250	67.0	<a href="#">22030.0060</a>
M24	15.0	48	12.0	5.5	127.0	237.0	250	107.0	<a href="#">22030.0064</a>
<b>stainless steel, standard spring load</b>									
M 3	1.5	8	1.5	0.4	3.0	4.5	250	0.2	<a href="#">22030.0203</a>
M 4	2.5	12	2.0	0.8	8.5	14.0	250	0.6	<a href="#">22030.0204</a>
M 5	3.0	14	2.5	0.9	8.0	14.0	250	1.2	<a href="#">22030.0205</a>
M 6	3.5	15	3.0	1.0	11.0	18.0	250	1.7	<a href="#">22030.0206</a>
M 8	4.5	18	4.0	1.5	18.0	31.0	250	4.0	<a href="#">22030.0208</a>
M10	6.0	23	5.0	2.0	24.0	45.0	250	8.0	<a href="#">22030.0210</a>
M12	8.0	26	6.0	2.5	26.0	49.0	250	13.0	<a href="#">22030.0212</a>
M16	10.0	33	8.0	3.5	41.0	86.0	250	32.0	<a href="#">22030.0216</a>
M20	12.0	43	10.0	4.5	56.0	111.0	250	67.0	<a href="#">22030.0220</a>
M24	15.0	48	12.0	5.5	81.0	151.0	250	105.0	<a href="#">22030.0224</a>
<b>stainless steel, heavy spring load</b>									
M 4	2.5	12	2.0	0.8	12.0	18.0	250	0.6	<a href="#">22030.0244</a>
M 5	3.0	14	2.5	0.9	15.0	22.0	250	1.2	<a href="#">22030.0245</a>
M 6	3.5	15	3.0	1.0	19.0	28.0	250	1.8	<a href="#">22030.0246</a>
M 8	4.5	18	4.0	1.5	36.0	62.0	250	4.0	<a href="#">22030.0248</a>
M10	6.0	23	5.0	2.0	57.0	104.0	250	8.2	<a href="#">22030.0250</a>
M12	8.0	26	6.0	2.5	61.0	110.0	250	13.0	<a href="#">22030.0252</a>
M16	10.0	33	8.0	3.5	68.0	142.0	250	33.0	<a href="#">22030.0256</a>
M20	12.0	43	10.0	4.5	84.0	166.0	250	67.0	<a href="#">22030.0260</a>
M24	15.0	48	12.0	5.5	127.0	237.0	250	106.0	<a href="#">22030.0264</a>

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

### Application example

