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Spring Plungers • with ball and slot
EH 22050.



Product Description

Spring plungers can be used for locking as well as for applying or ejecting pressure.

Material

Body
- Free cutting steel, blackened
- Stainless steel 1.4305

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

Spring
- Stainless steel

More information

Notes

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

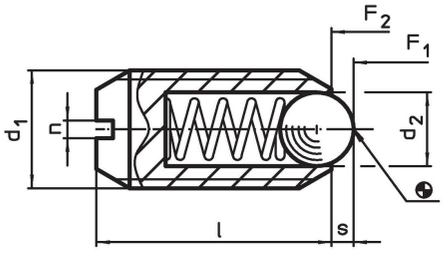
References

Thread lock on request.
Calculation of indexing resistance, please refer to application example

Further products

- Locators, bolt-on, for spring plungers
- Locators, smooth, for spring plungers
- Holders, for spring plungers
- Spring Plungers, with ball and slot - INCH

Drawing



Order information

Dimensions				Stroke	Spring load[1]				Art. No.
d_1	d_2	l	n	s	F_1 ~	F_2 ~	max.		
[mm]				[mm]	[N]		[°C]	[g]	
free cutting steel, standard spring load									
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	310.0	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	6.6	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
free cutting steel, heavy spring load									
M 2	1.0	4	0.25	0.3	1.6	2.0	250	0.1	22050.0202
M 3	1.5	7	0.40	0.4	6.4	9.5	250	0.2	22050.0203
M 4	2.5	9	0.60	0.8	12.0	18.0	250	0.4	22050.0204
M 5	3.0	12	0.80	0.9	15.0	22.0	250	1.0	22050.0205
M 6	3.5	14	1.00	1.0	19.0	28.0	250	1.7	22050.0206
M 8	4.5	16	1.20	1.5	36.0	62.0	250	3.6	22050.0208
M10	6.0	19	1.50	2.0	57.0	104.0	250	6.7	22050.0210

[1] statistical average value

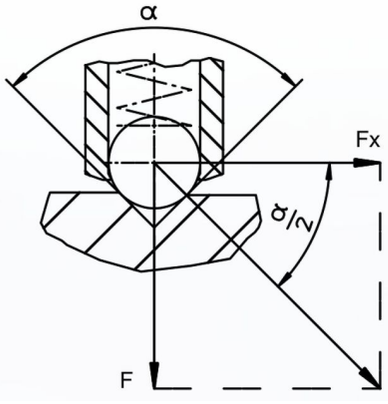
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Dimensions				Stroke	Spring load[1]				Art. No.
d_1	d_2	l	n	s	F_1 ~	F_2 ~	max.		
[mm]				[mm]	[N]		[°C]	[g]	
M12	8.0	22	2.00	2.5	61.0	110.0	250	11.0	22050.0212
M16	10.0	24	2.00	3.5	68.0	142.0	250	23.0	22050.0216
M20	12.0	30	2.50	4.5	84.0	166.0	250	45.0	22050.0220
M24	15.0	34	3.00	5.5	127.0	237.0	250	73.0	22050.0224
stainless steel, standard spring load									
M 2	1.0	4	0.25	0.3	0.8	1.5	250	0.1	22050.0402
M 3	1.5	7	0.40	0.4	3.0	4.5	250	0.2	22050.0403
M 4	2.5	9	0.60	0.8	8.5	14.0	250	0.4	22050.0404
M 5	3.0	12	0.80	0.9	8.0	14.0	250	1.0	22050.0405
M 6	3.5	14	1.00	1.0	11.0	18.0	250	1.7	22050.0406
M 8	4.5	16	1.20	1.5	18.0	31.0	250	3.6	22050.0408
M10	6.0	19	1.50	2.0	24.0	45.0	250	6.6	22050.0410
M12	8.0	22	2.00	2.5	26.0	49.0	250	10.0	22050.0412
M16	10.0	24	2.00	3.5	41.0	86.0	250	22.0	22050.0416
M20	12.0	30	2.50	4.5	56.0	111.0	250	45.0	22050.0420
M24	15.0	34	3.00	5.5	81.0	151.0	250	73.0	22050.0424
stainless steel, heavy spring load									
M 2	1.0	4	0.25	0.3	1.6	2.0	250	0.1	22050.0602
M 3	1.5	7	0.40	0.4	6.4	9.5	250	0.2	22050.0603
M 4	2.5	9	0.60	0.8	12.0	18.0	250	0.4	22050.0604
M 5	3.0	12	0.80	0.9	15.0	22.0	250	1.0	22050.0605
M 6	3.5	14	1.00	1.0	19.0	28.0	250	1.7	22050.0606
M 8	4.5	16	1.20	1.5	36.0	62.0	250	3.6	22050.0608
M10	6.0	19	1.50	2.0	57.0	104.0	250	6.8	22050.0610
M12	8.0	22	2.00	2.5	61.0	110.0	250	11.0	22050.0612
M16	10.0	24	2.00	3.5	68.0	142.0	250	23.0	22050.0616
M20	12.0	30	2.50	4.5	84.0	166.0	250	45.0	22050.0620
M24	15.0	34	3.00	5.5	127.0	237.0	250	73.0	22050.0624

[1] statistical average value

Application example

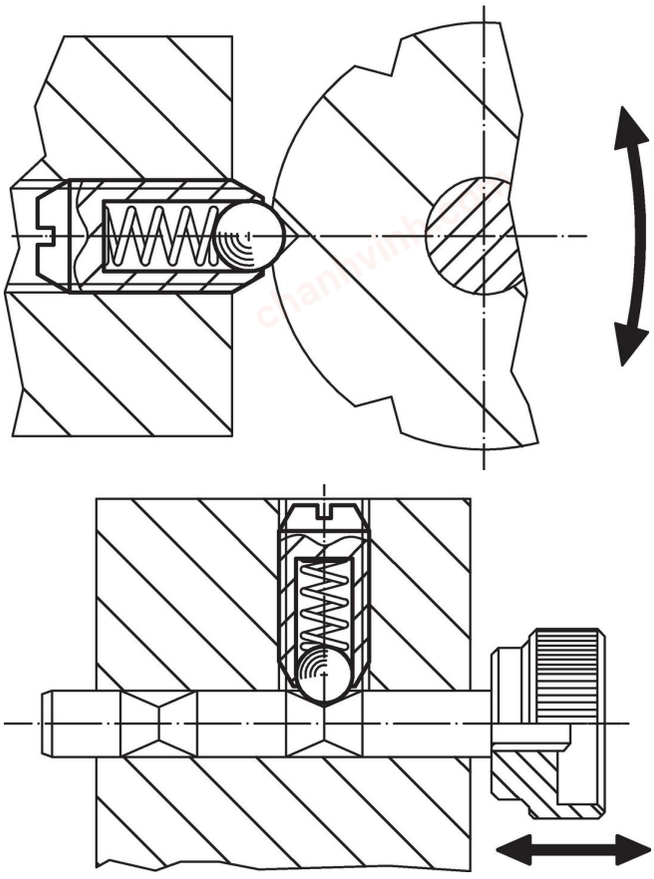
CALCULATION OF THE INDEXING RESISTANCE



Sample calculation for:
α = 60°, Fx = 1,732 x F
α = 90°, Fx = F
α = 120°, Fx = 0,577 x F

$$Fx = \frac{F}{\tan \frac{\alpha}{2}}$$

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Compliance

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