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Spring Plungers • headed, with ball and slot

EH 22050.





Product Description

Spring plungers can be used for locking as well as for applying or ejecting pressure.
Precise screwing depth due to head.

Material

Body
- Free cutting steel, blackened
- Stainless steel 1.4305

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

Spring
- Stainless steel

Assembly

Respect dimension l_3 for M 4 / M 5.

More information

Notes

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

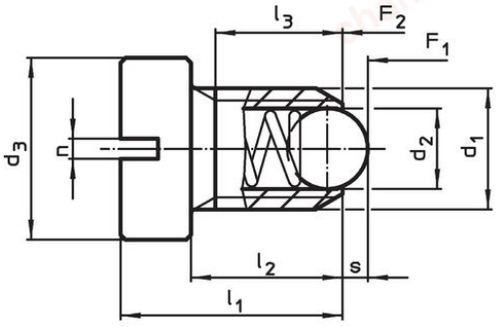
References

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

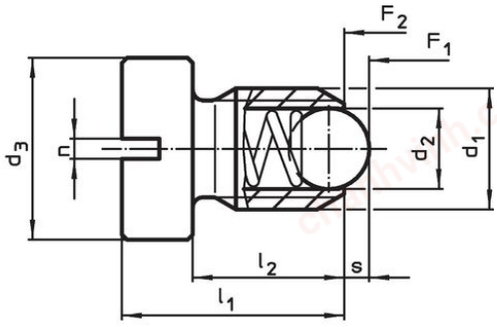
Further products

- Locators, bolt-on, for spring plungers
- Locators, smooth, for spring plungers

Drawing



Size M4+M5



Size M6–M12

Order information

Dimensions							Stroke	Spring load[1]				Art. No.
d_1	d_2	d_3	l_1	l_2	l_3 min.	n	s	F_1 ~	F_2 ~	max.		
[mm]							[mm]	[N]		[°C]	[g]	
free cutting steel, standard spring load												
M 4	2.5	6	9.5	6.5	5.0	0.6	0.8	8.0	14.0	250	0.9	22050.0930
M 5	3.0	8	12.5	8.5	6.7	0.8	0.9	8.0	14.0	250	2.2	22050.0931
M 6	3.5	10	14.0	9.0	–	1.0	1.0	11.0	18.0	250	3.7	22050.0932
M 8	4.5	13	16.5	11.0	–	1.2	1.5	18.0	31.0	250	7.5	22050.0933
M10	6.0	16	20.0	14.0	–	1.5	2.0	24.0	45.0	250	13.0	22050.0934
M12	8.0	18	22.0	15.0	–	2.0	2.5	26.0	49.0	250	19.0	22050.0935
free cutting steel, heavy spring load												
M 4	2.5	6	9.5	6.5	5.0	0.6	0.8	12.0	18.0	250	0.9	22050.1040
M 5	3.0	8	12.5	8.5	6.7	0.8	0.9	15.0	22.0	250	2.2	22050.1050
M 6	3.5	10	14.0	9.0	–	1.0	1.0	19.3	26.6	250	3.8	22050.1060
M 8	4.5	13	16.5	11.0	–	1.2	1.5	36.0	60.5	250	7.5	22050.1080
M10	6.0	16	20.0	14.0	–	1.5	2.0	57.0	103.5	250	13.0	22050.1100
M12	8.0	18	22.0	15.0	–	2.0	2.5	61.0	110.0	250	19.0	22050.1120

[1] statistical average value

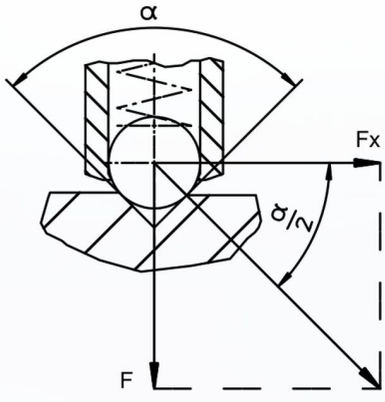
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Dimensions							Stroke	Spring load[1]				Art. No.
d_1	d_2	d_3	l_1	l_2	l_3 min.	n	s	F_1 ~	F_2 ~	max.		
[mm]							[mm]	[N]		[°C]	[g]	
stainless steel, standard spring load												
M 4	2.5	6	9.5	6.5	5.0	0.6	0.8	8.0	14.0	250	1.0	22050.0940
M 5	3.0	8	12.5	8.5	6.7	0.8	0.9	8.0	14.0	250	2.2	22050.0941
M 6	3.5	10	14.0	9.0	–	1.0	1.0	11.0	18.0	250	3.8	22050.0942
M 8	4.5	13	16.5	11.0	–	1.2	1.5	18.0	31.0	250	7.6	22050.0943
M10	6.0	16	20.0	14.0	–	1.5	2.0	24.0	45.0	250	13.0	22050.0944
M12	8.0	18	22.0	15.0	–	2.0	2.5	26.0	49.0	250	19.0	22050.0945
stainless steel, heavy spring load												
M 4	2.5	6	9.5	6.5	5.0	0.6	0.8	12.0	18.0	250	0.9	22050.1240
M 5	3.0	8	12.5	8.5	6.7	0.8	0.9	15.0	22.0	250	2.2	22050.1250
M 6	3.5	10	14.0	9.0	–	1.0	1.0	19.3	26.6	250	3.8	22050.1260
M 8	4.5	13	16.5	11.0	–	1.2	1.5	36.0	60.5	250	7.6	22050.1280
M10	6.0	16	20.0	14.0	–	1.5	2.0	57.0	103.5	250	13.0	22050.1300
M12	8.0	18	22.0	15.0	–	2.0	2.5	61.0	110.0	250	20.0	22050.1320

[1] statistical average value

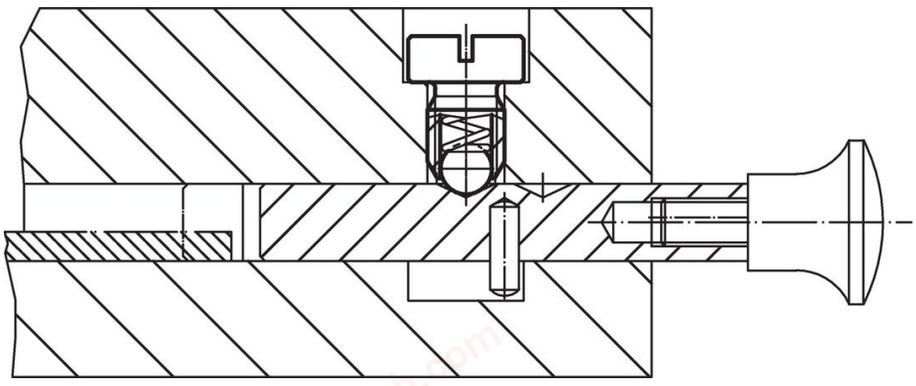
Application example

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

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



Compliance

For detailed compliance information please select the desired article number.