# Spring Plungers • smooth, without collar

EH 22080.



# **Product Description**

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

#### **Material**

#### Body

• Stainless steel 1.4305

#### Ball

· Stainless steel, hardened

## Spring

Stainless steel

### **Assembly**

The locating hole has to be adapted to each individual application case. We recommend an F8 size location hole for easy assembly and a H9 size when tight fit is required.

## Characteristic

Standard spring load: no marking Heavy 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.

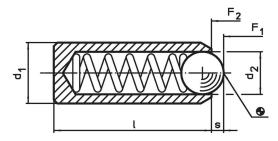
#### References

Calculation of indexing resistance, please refer to appendix - Technical Data -

#### **Further products**

· Spring Plungers, smooth, without collar, with moveable ball

## **Drawing**



## **Order information**

	Dimensions		Stroke	Spring load <sup>1)</sup>			Location hole	I	Art. No.				
<b>d</b> ₁ ±0.04	d <sub>2</sub>	ı	S	F <sub>1</sub> ~	F <sub>2</sub> ~	max.	joint connection F8 / press fit H9						
	[mm]	I	[mm]		[N]	[°C]	[mm]	[g]					
stainless steel	stainless steel, standard spring load												
2.0	1.0	3.5	0.30	0.8	1.5	250	2.0	0.1	22080.0306				
2.5	1.5	5.0	0.40	2.8	4.7	250	2.5	0.1	22080.0308				
3.0	2.0	7.0	0.65	4.5	7.5	250	3.0	0.3	22080.0310				
3.5	2.5	9.0	0.80	8.5	14.0	250	3.5	0.5	22080.0312				
4.0	3.0	11.0	0.90	8.0	14.0	250	4.0	0.7	22080.0315				
4.5	3.2	12.0	0.95	9.5	16.5	250	4.5	1.0	22080.0317				
5.0	3.5	13.0	1.00	11.0	18.0	250	5.0	1.4	22080.0320				
5.5	4.0	14.0	1.20	15.5	25.0	250	5.5	1.8	22080.0322				

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

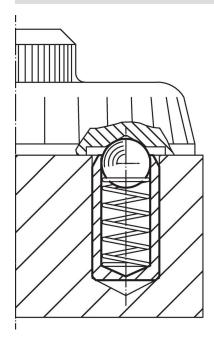


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Dimensions			Stroke	Spring load <sup>1)</sup>		<u> </u>	Location hole	I	Art. No.		
<b>d</b> <sub>1</sub> ±0.04	d <sub>2</sub>	I	S	F <sub>1</sub> ~	F <sub>2</sub> ~	max.	joint connection F8 / press fit H9				
[mm]			[mm]	[N]		[°C]	[mm]	[g]			
6.0	4.5	15.0	1.50	18.0	31.0	250	6.0	2.3	22080.0325		
8.0	6.0	18.0	2.00	24.0	45.0	250	8.0	5.0	22080.0327		
10.0	8.0	20.0	2.50	26.0	49.0	250	10.0	8.4	22080.0330		
12.0	10.0	22.0	3.50	41.0	86.0	250	12.0	12.0	22080.0332		
stainless steel, heavy spring load											
2.0	1.0	3.5	0.30	1.3	2.2	250	2.0	0.1	22080.0356		
2.5	1.5	5.0	2.50	4.7	7.1	250	2.5	0.1	22080.0358		
3.0	2.0	7.0	0.65	7.8	11.6	250	3.0	0.3	22080.0360		
3.5	2.5	9.0	0.80	12.0	18.0	250	3.5	0.5	22080.0362		
4.0	3.0	11.0	0.90	15.0	22.0	250	4.0	0.7	22080.0365		
4.5	3.2	12.0	0.95	18.7	25.1	250	4.5	1.0	22080.0367		
5.0	3.5	13.0	1.00	19.3	26.6	250	5.0	1.4	22080.0370		
5.5	4.0	14.0	1.20	25.1	39.2	250	5.5	1.8	22080.0372		
6.0	4.5	15.0	1.50	36.0	60.5	250	6.0	2.3	22080.0375		
8.0	6.0	18.0	2.00	57.0	103.5	250	8.0	5.1	22080.0377		
10.0	8.0	20.0	2.50	61.0	110.0	250	10.0	8.5	22080.0380		
12.0	10.0	22.0	3.50	68.0	143.0	250	12.0	13.0	22080.0382		

<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 23.01.2024.

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## 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.



www.halderusa.com Page 2 of 2
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