# Lateral Plungers • with thread, without seal

22150.0331



## **Product Description**

To be used for positioning and applying pressure, e.g. during painting and sandblasting.

#### **Material**

#### Body

• Steel, zinc-plated by galvanization

· Steel, blackened

#### Pin

· Steel, case-hardened, zinc-plated by galvanization

#### **Assembly**

Lateral plungers are installed by screwing in by means of a mounting tool.

Formula for calculating the center distance for the mounting hole:

 $I_0 = z/2 + w + x$ 

I<sub>0</sub> = center distance,

y = workpiece height,

w = workpiece length,

x = coordinate dimension,

s = stroke,

z = stop diameter

Calculation dimension x:

y greater than or equal to  $l_2$  -  $d_2/2$ ,

then  $x = d_2/2 - s$ 

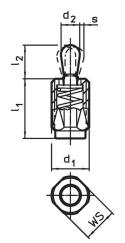
y smaller than  $l_2$  -  $d_2/2$ ,

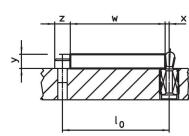
then  $x = d_2/2 - s - [(l_2 - d_2/2 - y) * 0,123]$ 

## Characteristic

Version standard spring load = spring from steel, blackened

## **Drawing**







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### **Order information**

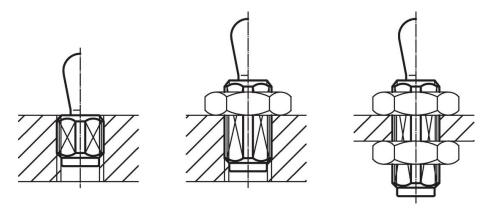
Dimensions					Stroke	ws	B	I	Art. No.		
d <sub>1</sub>	l <sub>1</sub> -2	Spring load  F  max. 1)  ~	d <sub>2</sub>	l <sub>2</sub>	S		max.				
[mm]		[N]		[mm]	[mm]	[mm]	[°C]	[g]			
Pin: Steel/Standard spring load											
M12	11.5	75	6	10.4	2	10	250	4.9	22150.0331		

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

### **Accessories**

assembly tool	Dimensions d <sub>1</sub> [mm]	[e]	Art. No.
	M12	76	22150.0820

## **Application example**



## Compliance

## **RoHS** compliant

Contains lead - compliant according to exceptions 6a / 6b / 6c.

## Contains SVHC substances >0,1% w/w

Contains lead - SVHC list [REACH] as of 23.01.2024.

## **Contains Proposition 65 substances**



Lead can cause cancer and reproductive harm from exposure https://www.P65Warnings.ca.gov/

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## **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.



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