

## Lateral Plungers • with thread, without seal

22150.0311



### Product Description

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

#### Material

##### Body

- Steel, zinc-plated by galvanization

##### Spring

- 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:

$$l_0 = z/2 + w + x,$$

$l_0$  = 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  $x = d_2/2 - s$

or

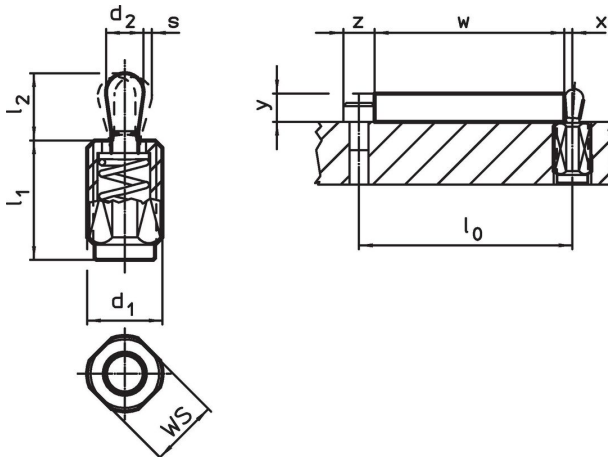
$y$  smaller than  $l_2 - d_2/2$ ,

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



#### Characteristic

Version standard spring load = spring from steel, blackened

### Drawing





## Order information

d <sub>1</sub>	l <sub>1</sub> -2	Dimensions		d <sub>2</sub>	l <sub>2</sub>	Stroke s	WS	 max.		Art. No.
		Spring load F max. <sup>1)</sup> ~								
[mm]		[N]		[mm]		[mm]	[mm]	[°C]	[g]	
Pin: Steel/Standard spring load										
M12	11.5	50		5	6.4	1.6	10	250	4.1	22150.0311

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

## Accessories

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

## Application example



## Compliance

## RoHS compliant

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

## Contains SVHC substances &gt;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/>

## 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.