

## Lateral Plungers · with plastic spring and pin - INCH

### EH 2B150.



#### Product Description

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

#### Material

##### Body

- Aluminium Al

##### Spring

- plastic

##### Pin

- Steel, case-hardened, blackened
- Stainless steel
- Thermoplastic POM, white

#### Assembly

Installation by pressing in.

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  $x = d_2/2 - s$

(value  $x$  for this case see table)

or

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

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

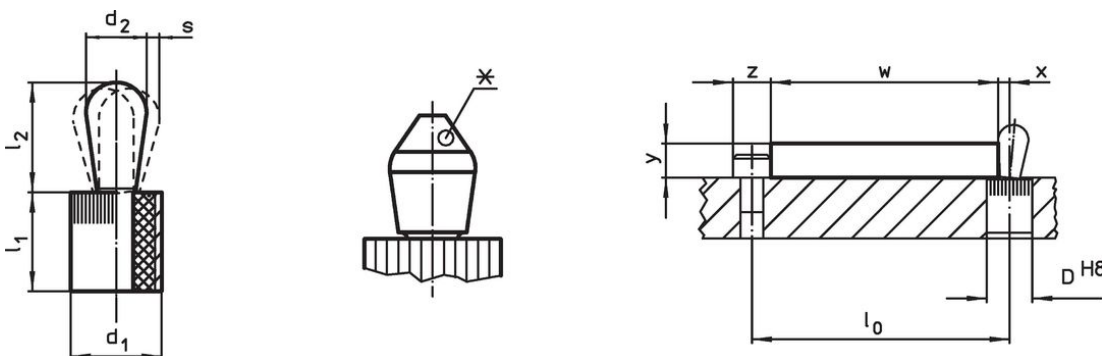
#### Characteristic

Version light spring load = blue spring

Version standard spring load = red spring

Version heavy spring load = green spring

#### Drawing



\*some sizes (see chart) have a deviating pin shape


#### Order information

Dimensions		Spring load F max. <sup>1)</sup> ~ [lb]	Dimensions		Stroke s [in]	Location hole D H8 [in]	$x^{2)}$ [in]	max. [°F]	oz	Art. No.
$d_1$ [in]	$d_2$ [in]		$l_1$ [in]	$l_2$ [in]						
			-0.03	$\pm 0.02$						
Pin: Steel/Light spring load										
1/4	0.118	2.2	0.295	0.145	0.008	0.250	0.051	212	0.020	2B150.0210 <sup>3)</sup>
7/16	0.197	6.7	0.374	0.287	0.016	0.438	0.083	212	0.092	2B150.0220
7/16	0.236	4.4	0.374	0.406	0.020	0.438	0.098	212	0.120	2B150.0225

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

<sup>2)</sup> If the workpiece height ( $y$ ) is less than  $l_2 - d_2/2$ , the coordinate dimension ( $x$ ) must be calculated.

<sup>3)</sup> deviating pin shape (see drawing)



Dimensions		Spring load F max. <sup>1)</sup> ~ [lb]	Dimensions		Stroke s [in]	Location hole D H8 [in]	x <sup>2)</sup> [in]	max. [°F]	 [oz]	Art. No.
d <sub>1</sub> [in]	d <sub>2</sub> [in]		l <sub>1</sub> -0.03 [in]	l <sub>2</sub> ±0.02 [in]						
<b>Pin: Steel/Standard spring load</b>										
1/4	0.118	4.4	0.295	0.145	0.008	0.250	0.051	212	0.020	2B150.0211 <sup>3)</sup>
7/16	0.197	13.5	0.374	0.287	0.016	0.438	0.083	212	0.092	2B150.0221
7/16	0.236	6.7	0.374	0.406	0.020	0.438	0.098	212	0.120	2B150.0226
1/2	0.315	11.1	0.553	0.515	0.024	0.500	0.134	212	0.260	2B150.0230
5/8	0.394	18.0	0.675	0.678	0.031	0.625	0.166	212	0.534	2B150.0240
<b>Pin: Steel/Heavy spring load</b>										
7/16	0.197	20.0	0.374	0.287	0.016	0.438	0.083	212	0.092	2B150.0222
7/16	0.236	13.5	0.374	0.406	0.020	0.438	0.098	212	0.121	2B150.0227
1/2	0.315	22.2	0.553	0.515	0.024	0.500	0.134	212	0.262	2B150.0231
5/8	0.394	36.0	0.675	0.678	0.031	0.625	0.166	212	0.540	2B150.0241
<b>Pin: Stainless steel/Light spring load</b>										
1/4	0.118	2.2	0.295	0.145	0.008	0.250	0.051	212	0.022	2B150.0310 <sup>3)</sup>
7/16	0.197	6.7	0.374	0.287	0.016	0.438	0.083	212	0.093	2B150.0320
7/16	0.236	4.4	0.374	0.406	0.020	0.438	0.098	212	0.121	2B150.0325
<b>Pin: Stainless steel/Standard spring load</b>										
1/4	0.118	4.4	0.295	0.145	0.008	0.250	0.051	212	0.021	2B150.0311 <sup>3)</sup>
7/16	0.197	13.5	0.374	0.287	0.016	0.438	0.083	212	0.093	2B150.0321
7/16	0.236	6.7	0.374	0.406	0.020	0.438	0.098	212	0.121	2B150.0326
1/2	0.315	11.1	0.553	0.515	0.024	0.500	0.134	212	0.247	2B150.0330
5/8	0.394	18.0	0.675	0.678	0.031	0.625	0.166	212	0.543	2B150.0340
<b>Pin: Stainless steel/Heavy spring load</b>										
7/16	0.197	20.0	0.374	0.287	0.016	0.438	0.083	212	0.095	2B150.0322
7/16	0.236	13.5	0.374	0.406	0.020	0.438	0.098	212	0.122	2B150.0327
1/2	0.315	22.2	0.553	0.515	0.024	0.500	0.134	212	0.263	2B150.0331
5/8	0.394	36.0	0.675	0.678	0.031	0.625	0.166	212	0.546	2B150.0341
<b>Pin: Thermoplastic/Light spring load</b>										
1/4	0.118	2.2	0.295	0.145	0.008	0.250	0.051	176	0.013	2B150.0410 <sup>3)</sup>
7/16	0.197	6.7	0.374	0.287	0.016	0.438	0.083	176	0.054	2B150.0420
7/16	0.236	4.4	0.374	0.406	0.020	0.438	0.098	176	0.058	2B150.0425
<b>Pin: Thermoplastic/Standard spring load</b>										
1/4	0.118	4.4	0.295	0.145	0.008	0.250	0.051	176	0.012	2B150.0411 <sup>3)</sup>
7/16	0.197	13.5	0.374	0.287	0.016	0.438	0.083	176	0.052	2B150.0421
7/16	0.236	6.7	0.374	0.406	0.020	0.438	0.098	176	0.057	2B150.0426
1/2	0.315	11.1	0.553	0.515	0.024	0.500	0.134	176	0.104	2B150.0430
5/8	0.394	18.0	0.675	0.678	0.031	0.625	0.166	176	0.196	2B150.0440
<b>Pin: Thermoplastic/Heavy spring load</b>										
7/16	0.197	20.0	0.374	0.287	0.016	0.438	0.083	176	0.054	2B150.0422
7/16	0.236	13.5	0.374	0.406	0.020	0.438	0.098	176	0.058	2B150.0427
1/2	0.315	22.2	0.553	0.515	0.024	0.500	0.134	176	0.106	2B150.0431
5/8	0.394	36.0	0.675	0.678	0.031	0.625	0.166	176	0.200	2B150.0441

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

<sup>2)</sup> If the workpiece height (y) is less than l2-d2/2, the coordinate dimension (x) must be calculated.

<sup>3)</sup> deviating pin shape (see drawing)

Accessories

	Dimensions d <sub>1</sub> [in]	 [oz]	Art. No.
<b>assembly tool</b>			
	1/4	0.678	<a href="#">22150.0830</a>
	7/16	1.749	<a href="#">22150.0831</a>
	1/2	2.321	<a href="#">22150.0832</a>
	5/8	3.749	<a href="#">22150.0833</a>

Compliance

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