Lateral Plungers • with plastic spring and pin
EH 22150.

Product Description

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

Material

Spring
• plastic

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

Assembly

It is recommended to moisten the body.
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
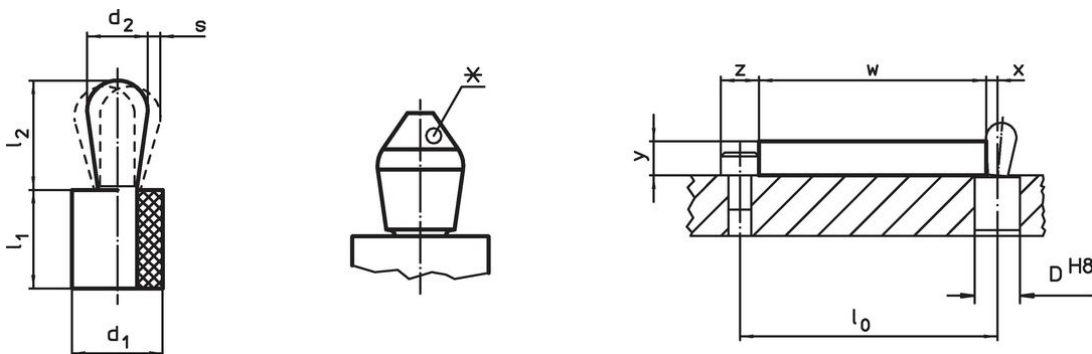Version standard spring load = red spring
Version heavy spring load = green spring

More information

Notes

This is a discontinued article.

Drawing

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

Order information

Dimensions		Spring load F max. [1] ~	Dimensions		Stroke s	Location hole D H8	x [2]	🌡 max.	⬛	Art. No.
d_1	d_2		l_1 -1	l_2 ±0.5						
[mm]	[mm]	[N]	[mm]	[mm]	[mm]	[mm]	[mm]	[°C]	[g]	
Pin: Steel/pin from steel, light spring load										
6	**3**	**10**	7	3.7	0.2	5.9	1.0	100	0.5	**22150.0200**[3]
8	**4**	**15**	9	5.2	0.3	7.9	1.4	100	1.2	**22150.0202**
10	**5**	**30**	9	7.3	0.4	9.9	1.6	100	2.1	**22150.0204**
10	**6**	**20**	9	10.3	0.5	9.9	1.9	100	2.9	**22150.0207**
Pin: Steel/pin from steel, standard spring load										
6	**3**	**20**	7	3.7	0.2	5.9	1.0	100	0.5	**22150.0201**[3]
8	**4**	**30**	9	5.2	0.3	7.9	1.4	100	1.2	**22150.0203**
10	**5**	**60**	9	7.3	0.4	9.9	1.6	100	2.1	**22150.0205**
10	**6**	**30**	9	10.3	0.5	9.9	1.9	100	2.9	**22150.0208**
12	**8**	**50**	13	13.3	0.6	11.9	2.7	100	6.8	**22150.0211**
16	**10**	**80**	16	16.9	0.8	15.9	3.4	100	14.0	**22150.0213**
Pin: Steel/pin from steel, heavy spring load										
10	**5**	**90**	9	7.3	0.4	9.9	1.6	100	2.1	**22150.0206**
10	**6**	**60**	9	10.3	0.5	9.9	1.9	100	2.9	**22150.0209**
12	**8**	**100**	13	13.3	0.6	11.9	2.7	100	6.8	**22150.0212**
16	**10**	**160**	16	16.9	0.8	15.9	3.4	100	15.0	**22150.0214**
Pin: Stainless steel/pin from stainless steel, light spring load										
6	**3**	**10**	7	3.7	0.2	5.9	1.0	100	0.5	**22150.0215**[3]
8	**4**	**15**	9	5.2	0.3	7.9	1.4	100	1.2	**22150.0217**
10	**5**	**30**	9	7.3	0.4	9.9	1.6	100	2.1	**22150.0219**
10	**6**	**20**	9	10.3	0.5	9.9	1.9	100	2.9	**22150.0222**
Pin: Stainless steel/pin from stainless steel, standard spring load										
6	**3**	**20**	7	3.7	0.2	5.9	1.0	100	0.5	**22150.0216**[3]
8	**4**	**30**	9	5.2	0.3	7.9	1.4	100	1.2	**22150.0218**
10	**5**	**60**	9	7.3	0.4	9.9	1.6	100	2.1	**22150.0220**
10	**6**	**30**	9	10.3	0.5	9.9	1.9	100	2.9	**22150.0223**
12	**8**	**50**	13	13.3	0.6	11.9	2.7	100	6.8	**22150.0226**
16	**10**	**80**	16	16.9	0.8	15.9	3.4	100	15.0	**22150.0228**
Pin: Stainless steel/pin from stainless steel, heavy spring load										
10	**5**	**90**	9	7.3	0.4	9.9	1.6	100	2.1	**22150.0221**
10	**6**	**60**	9	10.3	0.5	9.9	1.9	100	2.9	**22150.0224**
12	**8**	**100**	13	13.2	0.6	11.9	2.7	100	6.8	**22150.0227**
16	**10**	**160**	16	16.6	0.8	15.9	3.4	100	15.0	**22150.0229**
Pin: Thermoplastic/pin from thermoplastic, light spring load										
6	**3**	**10**	7	3.7	0.2	5.9	1.0	80	0.3	**22150.0230**[3]
8	**4**	**15**	9	5.2	0.3	7.9	1.4	80	0.6	**22150.0232**
10	**5**	**30**	9	7.3	0.4	9.9	1.6	80	1.0	**22150.0234**
10	**6**	**20**	9	10.3	0.5	9.9	1.9	80	1.1	**22150.0237**
Pin: Thermoplastic/pin from thermoplastic, standard spring load										
6	**3**	**20**	7	3.7	0.2	5.9	1.0	80	0.3	**22150.0231**[3]
8	**4**	**30**	9	5.2	0.3	7.9	1.4	80	0.6	**22150.0233**
10	**5**	**60**	9	7.3	0.4	9.9	1.6	80	1.0	**22150.0235**
10	**6**	**30**	9	10.3	0.5	9.9	1.9	80	1.1	**22150.0238**
12	**8**	**50**	13	13.3	0.6	11.9	2.7	80	2.3	**22150.0240**
16	**10**	**80**	16	16.9	0.8	15.9	3.4	80	4.9	**22150.0242**

[1] statistical average value

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

[3] deviating pin shape (see drawing)

Dimensions		Spring load F max. [1] ~	Dimensions		Stroke s	Location hole D H8	x [2]	🌡 max.	🏋	Art. No.
d₁	d₂		l₁ -1	l₂ ±0.5						
[mm]		[N]	[mm]		[mm]	[mm]	[mm]	[°C]	[g]	
Pin: Thermoplastic/pin from thermoplastic, heavy spring load										
10	**5**	**90**	9	7.3	0.4	9.9	1.6	80	1.0	**22150.0236**
10	**6**	**60**	9	10.3	0.5	9.9	1.9	80	1.1	**22150.0239**
12	**8**	**100**	13	13.3	0.6	11.9	2.7	80	2.3	**22150.0241**
16	**10**	**160**	16	16.9	0.8	15.9	3.4	80	5.1	**22150.0243**

[1] statistical average value

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

[3] deviating pin shape (see drawing)

Accessories

	Dimensions d₁ [mm]	🏋 [g]	Art. No.
assembly tool			
	6	23	**22150.0840**
	8	47	**22150.0841**
	10	46	**22150.0842**
	12	96	**22150.0843**
	16	145	**22150.0844**

Compliance

For detailed compliance information please select the desired article number.