



SS Stainless Steel

Type

- A** Without nylon locking element
- N** With nylon locking element

Specification

- **SBP**
 - Housing
Stainless steel AISI 303
 - Ball
Stainless steel AISI 440C
 - Spring
Stainless steel AISI 302

- **SBPNB**
 - Housing
Stainless steel AISI 303
 - Ball
Nylon
 - Spring
Stainless steel AISI 302

• *Stainless Steel Characteristics* → page 2143

• *RoHS compliant*

Information

SBP and SBPNB ball plungers are compact units ideally suited for many locating or positioning applications in various corrosive environments where controlled end spring load is required.

The locking element is supplied as either a patch or pellet and is not recommended for use in aluminum applications.

<p>How to order (Stainless steel ball)</p> <p>SBP-3/8X16-22.24-N</p>	<p>1 Thread d_1</p> <p>2 End spring load (N)</p> <p>3 Type</p>
<p>How to order (Nylon ball)</p> <p>SBPNB-1/2X13-133.44-A</p>	<p>1 Thread d_1</p> <p>2 End spring load (N)</p> <p>3 Type</p>

Inch table

Dimensions in: inches - millimeters

1 d ₁ Thread	d ₂	Length l	w Compression	2 Spring load ≈	
				Initial	End
4 x 48*	0.0620 1.6	0.187 4.7	0.020 0.5	0.13 lbf 0.57 N	0.50 lbf 2.22 N
5 x 40*	0.0620 1.6	0.250 6.4	0.050 1.3	0.25 lbf 1.11 N	0.75 lbf 3.33 N
6 x 40*	0.0780 2.0	0.312 7.9	0.023 0.6	0.50 lbf 2.22 N	1.00 lbf 4.45 N
8 x 32*	0.0937 2.4	0.344 8.7	0.025 0.6	0.50 lbf 2.22 N	1.25 lbf 5.56 N
8 x 36*	0.0937 2.4	0.344 8.7	0.025 0.6	0.50 lbf 2.22 N	1.25 lbf 5.56 N
10 x 32*	0.0937 2.4	0.513 13.0	0.025 0.6	1.50 lbf 6.67 N	3.00 lbf 13.34 N
10 x 32*	0.0937 2.4	0.513 13.0	0.025 0.6	0.50 lbf 2.22 N	1.50 lbf 6.67 N
10 x 32*	0.0937 2.4	0.513 13.0	0.025 0.6	2.00 lbf 8.89 N	5.00 lbf 22.24 N
1/4 x 20	0.1250 3.2	0.531 13.5	0.035 0.9	3.00 lbf 13.34 N	7.00 lbf 31.13 N
1/4 x 20	0.1250 3.2	0.531 13.5	0.035 0.9	2.00 lbf 8.89 N	4.00 lbf 17.79 N
1/4 x 20	0.1250 3.2	0.531 13.5	0.035 0.9	4.00 lbf 17.79 N	12.00 lbf 53.37 N
5/16 x 18	0.1560 4.0	0.578 14.7	0.040 1.0	4.00 lbf 17.79 N	9.00 lbf 40.03 N
5/16 x 18	0.1560 4.0	0.578 14.7	0.040 1.0	2.00 lbf 8.89 N	4.50 lbf 20.01 N
5/16 x 18	0.1560 4.0	0.578 14.7	0.040 1.0	6.00 lbf 26.68 N	17.00 lbf 75.61 N
3/8 x 16	0.1875 4.8	0.625 15.9	0.048 1.2	5.00 lbf 22.24 N	10.00 lbf 44.48 N
3/8 x 16	0.1875 4.8	0.625 15.9	0.048 1.2	2.50 lbf 11.12 N	5.00 lbf 22.24 N
3/8 x 16	0.1875 4.8	0.625 15.9	0.048 1.2	6.00 lbf 26.68 N	21.00 lbf 93.41 N
1/2 x 13	0.2813 7.1	0.750 19.1	0.072 1.8	6.00 lbf 26.68 N	12.00 lbf 53.37 N
1/2 x 13	0.2813 7.1	0.750 19.1	0.072 1.8	3.00 lbf 13.34 N	6.00 lbf 26.68 N
1/2 x 13	0.2813 7.1	0.750 19.1	0.072 1.8	6.00 lbf 26.68 N	30.00 lbf 133.44 N
5/8 x 11	0.3750 9.5	0.984 25.0	0.096 2.4	9.00 lbf 40.03 N	18.00 lbf 80.06 N
5/8 x 11	0.3750 9.5	0.984 25.0	0.096 2.4	4.50 lbf 20.01 N	9.00 lbf 40.03 N
5/8 x 11	0.3750 9.5	0.984 25.0	0.096 2.4	7.00 lbf 31.13 N	50.00 lbf 222.41 N

* These sizes come with a nylon patch instead of a nylon locking element

3.1
3.2
3.3
3.4
3.5
3.6
3.7
3.8
3.9
3.10

