



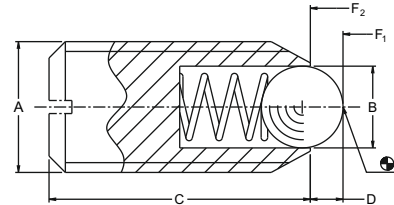
## Spring Plungers

### SPRING PLUNGERS - SP-01 Series

With Ball and Slot

Black Oxide Steel Body, Hardened Steel Ball, Stainless Steel Spring

Model No.	A	B	C	D	Spring load $F_1$ N~*	Spring load $F_2$ N~*
SP-01.03	M 3	1.5	7	0.4	3.0	4.5
SP-01.04	M 4	2.5	9	0.8	8.5	14.0
SP-01.05	M 5	3.0	12	0.9	8.0	14.0
SP-01.06	M 6	3.5	14	1.0	11.0	18.0
SP-01.08	M 8	4.5	16	1.5	18.0	31.0
SP-01.10	M 10	6.0	19	2.0	24.0	45.0
SP-01.12	M 12	8.0	22	2.5	26.0	49.0
SP-01.16	M 16	10.0	24	3.5	41.0	86.0
SP-01.20	M 20	12.0	30	4.5	56.0	111.0
SP-01.24	M 24	15.0	34	5.5	81.0	151.0

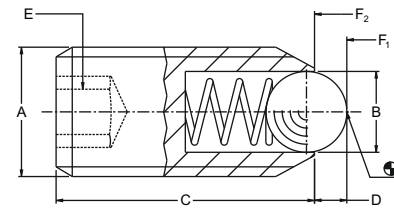


### SPRING PLUNGERS - SP-02 Series

With Ball and Internal Hexagon

Black Oxide Steel Body, Hardened Steel Ball, Stainless Steel Spring

Model No.	A	B	C	D	E	Spring load $F_1$ N~*	Spring load $F_2$ N~*
SP-02.03	M 3	1.5	9	0.4	1.5	1.5	3.0
SP-02.04	M 4	2.5	9	0.8	2.0	8.0	13.0
SP-02.05	M 5	3.0	14	0.9	2.5	6.0	12.0
SP-02.06	M 6	3.5	15	1.0	3.0	11.0	18.0
SP-02.08	M 8	4.5	18	1.5	4.0	18.0	31.0
SP-02.10	M 10	6.0	23	2.0	5.0	24.0	45.0
SP-02.12	M 12	8.0	26	2.5	6.0	26.0	49.0
SP-02.16	M 16	10.0	33	3.5	8.0	41.0	86.0
SP-02.20	M 20	12.0	43	4.5	10.0	66.0	111.0
SP-02.24	M 24	15.0	48	5.5	12.0	81.0	151.0

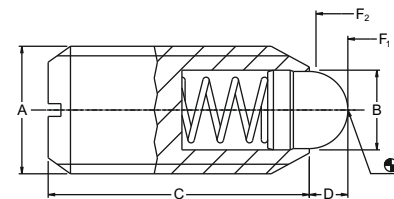


### SPRING PLUNGERS - SP-03 Series

With Round-ended Bolt & Slot

Black Oxide Steel Body, Hardened & Blackened Steel Bolt, Stainless Steel Spring

Model No.	A	B	C	D	Spring load $F_1$ N~*	Spring load $F_2$ N~*
SP-03.04	M 4	1.8	9	1.5	4.5	12.5
SP-03.05	M 5	2.4	12	2.0	5.0	13.0
SP-03.06	M 6	2.7	14	2.0	6.0	17.0
SP-03.08	M 8	3.8	16	2.0	16.0	33.0
SP-03.10	M 10	4.5	19	2.5	19.0	42.0
SP-03.12	M 12	6.2	22	3.5	22.0	57.0
SP-03.16	M 16	8.5	24	4.5	38.0	78.0
SP-03.20	M 20	10.0	30	6.5	39.0	81.0
SP-03.24	M 24	13.0	34	8.0	72.0	155.0



### SPRING PLUNGERS - SP-04 Series

With Round-ended Bolt & Internal Hexagon

Black Oxide Steel Body, Hardened & Blackened Steel Bolt, Stainless Steel Spring

Model No.	A	B	C	D	E	Spring load $F_1$ N~*	Spring load $F_2$ N~*
SP-04.03	M 3	1.0	9	1.5	0.7	0.5	3.0
SP-04.04	M 4	1.8	9	1.5	2.0	4.5	12.5
SP-04.05	M 5	2.4	14	2.0	2.5	5.0	13.0
SP-04.06	M 6	2.7	15	2.0	3.0	6.0	17.0
SP-04.08	M 8	3.8	18	2.0	4.0	16.0	33.0
SP-04.10	M 10	4.5	23	2.5	5.0	19.0	42.0
SP-04.12	M 12	6.2	26	3.5	6.0	22.0	57.0
SP-04.16	M 16	8.5	33	4.5	8.0	38.0	78.0
SP-04.20	M 20	10.0	43	6.5	10.0	39.0	81.0
SP-04.24	M 24	13.0	48	8.0	12.0	72.0	155.0

