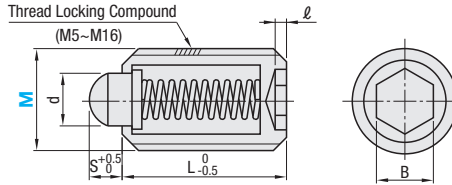


# Short Spring Plungers

## Steel / Stainless Steel



Load Category	Type	Body			Pin			Spring	Operating Temperature		
		Material	Hardness	Surface Treatment	Material	Hardness	Surface Treatment				
Steel Tip	Ultra Light Load	SPJS	SPJS-N	SCM435	29-35HRC	Black Oxide	S45C	57-63HRC (Carburized)	Trivalent Chromate	SWP-B	-30~80°C
	Light Load	SPJL	SPJL-N								
	Heavy Load	SPJH	SPJH-N								
	Extra Heavy Load	SPJF	SPJF-N								
Plastic Tip	Ultra Light Load	SPRRS	SPRRS-N	SCM435	29-35HRC	Electroless Nickel Plating	Polyacetal	-	-	SWP-B	-30~80°C
	Light Load	SPRM	SPRM-N								
	Heavy Load	SPRH	-								
	Extra Heavy Load	SPRF	SPRF-N								



- ⚠ Thread-Lock Untreated Type is not available for M3 or M4 (M3 and M4 Standard Type are not thread-locking treated.)
- ⚠ Thread Locking Treatment  
Micro-encapsulated anaerobic adhesive used to hold objects in place. Once parts have been loosened, adhesion is lost. Use an anaerobic thread locking compound when reassembling.

**Standard**

Part Number	Type	M (Coarse)	d	S	L	l	B	Ultra Light Load				Light Load		Heavy Load		Extra Heavy Load		Unit Price		
								Load (N)		Load (N)		Load (N)		Load (N)		SPJL SPJH	SPJS SPJF	SPRRS, SPRM SPRH, SPRF		
								min.	max.	min.	max.	min.	max.	min.	max.					
(Steel Tip) SPJS SPJL SPJH SPJF	(Plastic Tip) SPRRS SPRM SPRH SPRF	3	1.2	1	7	1	1.5	0.11	0.48	0.4	1.5	0.8	2.0	-	-	-	-	-	-	-
		4	2.1	1.2	9	1.5	2	0.49	1.55	1.6	5.0	2.0	9.0	4.4	11.9	-	-	-	-	
		5	2.7	1.5	12	2	2.5	0.53	2.53	2.0	7.8	4.9	14.7	4.1	24.9	-	-	-	-	
		6	3.2	1.5	13	2.5	3	0.89	3.11	2.9	9.8	5.9	19.6	7.7	30.6	-	-	-	-	
		8	4	2	15	2.5	4	0.9	3.14	2.9	9.8	5.9	19.6	8.6	43	-	-	-	-	
		10	5	2.5	16	3	5	1.76	4.71	4.9	14.7	9.8	29.4	14.1	53.1	-	-	-	-	
		12	6	3.5	20	3	6	1.96	4.82	4.9	14.7	9.8	29.4	23.1	58.3	-	-	-	-	
		16	8	4.5	22	3	8	3.29	9	9.8	29.4	19.6	58.8	26.6	78.8	-	-	-	-	

- ⚠ No slits for swaging on the tip.
- ⚠ Min. is the initial load, and max. is the load when the tip is fully compressed.
- ⚠ Extra Heavy Load Type is available from M4 size.

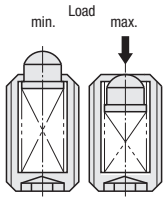
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**No Thread Locking Compound**

Part Number	Type	M (Coarse)	d	S	L	l	B	Ultra Light Load				Light Load		Heavy Load		Extra Heavy Load		Unit Price
								Load (N)		Load (N)		Load (N)		Load (N)				
								min.	max.	min.	max.	min.	max.	min.	max.			
(Steel Tip) SPJS-N SPJL-N SPJH-N SPJF-N	(Plastic Tip) SPRRS-N SPRM-N SPRH-N SPRF-N	5	2.7	1.5	12	2	2.5	0.53	2.53	2	7.8	4.9	14.7	4.1	24.9	-	-	-
		6	3.2	1.5	13	2.5	3	0.89	3.11	2.9	9.8	5.9	19.6	7.7	30.6	-	-	
		8	4	2	15	2.5	4	0.9	3.14	2.9	9.8	5.9	19.6	8.6	43	-	-	
		10	5	2.5	16	3	5	1.76	4.71	4.9	14.7	9.8	29.4	14.1	53.1	-	-	
		12	6	3.5	20	3	6	1.96	4.82	4.9	14.7	9.8	29.4	23.1	58.3	-	-	
		16	8	4.5	22	3	8	3.29	9	9.8	29.4	19.6	58.8	26.6	78.8	-	-	

- ⚠ No slits for swaging on the tip.
- ⚠ Min. is the initial load, and max. is the load when the tip is fully compressed.

kgf=Nx0.101972

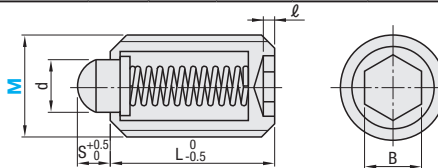


Ordering Example

Part Number  
SPJL12  
SPJS-N5



Load Category	Type	Body			Pin		Spring	Operating Temperature
		Material	Material	Hardness	Material			
Stainless Steel Tip	Ultra Light Load	SPJY	SUS304 Equivalent	SUS440C	55HRC~	SUS631J1	-	-30~260°C
	Light Load	SPJK						
	Heavy Load	SPJZ						
	Extra Heavy Load	SPJX						
Plastic Tip	Ultra Light Load	SPRY	SUS304 Equivalent	SUS440C	55HRC~	SUS631J1	-	-30~80°C
	Light Load	SPRK						
	Heavy Load	SPRZ						
	Extra Heavy Load	SPRX						



Part Number	Type	M (Coarse)	d	S	L	l	B	Ultra Light Load (SPJY, SPRY)		Light Load (SPJK, SPRK)		Heavy Load (SPJZ, SPRZ)		Extra Heavy Load (SPJX, SPRX)		Unit Price
								Load (N)		Load (N)		Load (N)		Load (N)		
								min.	max.	min.	max.	min.	max.	min.	max.	
(Stainless Steel Tip) SPJY SPJK SPJZ SPJX	(Plastic Tip) SPRY SPRK SPRZ SPRX	3	1.2	1	7	1	1.5	0.11	0.49	0.5	1.51	0.8	2.0	-	-	-
		4	2.1	1.2	9	1.5	2	0.51	1.54	1.6	4.8	2.0	9.0	4.0	11.5	-
		5	2.7	1.5	12	2	2.5	0.62	2.49	2	7.9	5.1	14.7	6.0	24.2	-
		6	3.2	1.5	13	2.5	3	0.97	3.06	2.8	9.9	5.5	19.6	9.4	29.5	-
		8	4	2	15	2.5	4	1.16	3.26	3.6	10.9	6.1	19.6	13.5	43.7	-
		10	5	2.5	16	3	5	1.54	4.76	4.2	14.6	9.6	29.4	19.1	53.3	-
12	6	3.5	20	3	6	1.81	4.82	4.6	14.8	10.4	29.4	24.5	58.8	-		
16	8	4.5	22	3	8	3.1	9.1	9.9	29.3	18.0	58.8	26.6	78.7	-		

- ⚠ No slits for swaging on the tip.
- ⚠ Min. is the initial load, and max. is the load when the tip is fully compressed.
- ⚠ Thread locking treatment is not applied.

kgf=Nx0.101972

Ordering Example

Part Number  
SPJZ10