

Spring Plungers

Steel



Load Category	Type		Body		Pin		Spring	Operating Temperature	
	Standard	No. Thread Locking Compound	Material	Hardness	Material	Hardness			
Steel Nose	Ultra Light Load	PJS	PJS-N	EN 1.1191 Equiv.	29~35HRC	Black Oxide	Trivalent Chromate	JIS-SWP-B	-30~80°C
	Light Load	PJL	PJL-N						
Plastic Tip	Light Load	NPJS	NPJS-N	Polyacetal	-	-	-	-	-
	Heavy Load	PJH	PJH-N						

⚡ Electroless Nickel Plating for only M3 and M4.

🔒 Thread Locking Treatment is not provided on M3 and M4.

🔒 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.

🔒 The thread locking is most effective by leaving the parts for 72 hours or more in 25°C. It should be noted if the parts are left for short period of time and in low temperature, the thread locking compound will be less-effective.

🚫 Do not use the rear hex socket at the time of mounting or removal.

Standard

Part Number	Type	M (Coarse)	S	d	ℓ	L		B	Ultra Light Load		Light Load		Heavy Load		Extra Heavy Load		Unit Price	
						Ultra Light / Light / Heavy Load	Extra Heavy Load		min.	max.	min.	max.	min.	max.	min.	max.	Ultra Light / Light / Heavy Load	Extra Heavy Load
3	Steel Tip	3	**1.5	1.1	10(15)	10	15	0.9	0.05	0.32	0.49	1.0	0.78	2.9	2.2	4.5		
			**3	1.1	15(20)	15	20	0.9	0.09	0.32	0.29	1.0	0.78	2.9	1.8	4.5		
			**2	1.6	15(24)	15	24	1.3	0.23	0.65	1.0	2.0	2.9	8.8	5.2	13		
4	Steel Tip	4	**4	1.6	24	24	24	1.3	0.24	0.65	0.59	2.0	2.0	8.8	5.2	13		
			**3	2.0	20(27)	20	27	1.5	0.74	2.95	2.0	9.8	4.9	19.6	9.1	24.5		
			**5	2.0	27(39)	27	39	1.5	0.72	2.95	2.0	9.8	2.9	19.6	8.8	24.8		
5	Steel Tip	5	**3	2.5	25(30)	25	30	2	0.85	3.2	5.9	9.8	7.8	29.4	14.2	39.5		
			**5	2.5	30(36)	30	36	2	0.85	3.2	2.0	9.8	4.9	29.4	14.1	39.4		
			**10	2.5	30	39	-	2	-	-	1.4	9.8	5.0	28.0	-	-		
6	Steel Tip	6	**3	3.1	25(27)	25	27	2.5	0.9	3.3	5.9	9.8	14.7	29.4	35.3	41.2		
			**5	3.1	27(30)	27	35	2.5	0.9	3.3	2.9	9.8	7.8	29.4	14.7	41.2		
			**10	3.1	30	43	-	2.5	-	-	3.0	9.8	7.0	28.8	-	-		
8	Steel Tip	8	**5	3.8	30	30	35	3	1.9	4.7	5.9	14.7	8.8	49.0	15.7	62.8		
			**10	3.8	30	43	53	3	1.7	4.7	2.9	14.7	7.8	49.0	12.7	62.8		
			**15	3.8	30	58	-	3	-	-	2.9	14.7	6.2	48.7	-	-		
10	Steel Tip	10	**5	5.5	30(35)	30	43	4	1.5	4.7	5.9	14.7	18.6	49.0	37.2	98.1		
			**10	5.5	35	43	58	4	1.3	5.9	2.9	19.6	7.8	49.0	14.7	98.1		
			**15	5.5	35	51	78	4	1.6	5.9	2.9	19.6	4.9	49.0	14.9	98.1		
12	Steel Tip	12	**20	5.5	35	78	-	4	-	-	3.5	19.6	6.9	49.0	-	-		
			**10	8	35	60	60	5	1.7	12.8	5.9	39.2	12.7	78.5	23.5	147.2		
			**15	8	35	60	70	5	1.7	12.8	3.9	39.2	12.7	78.5	21.6	147.2		
16	Plastic Tip	16	**20	8	35	85	90	5	1.7	12.8	4.9	39.2	9.8	78.5	12.7	147.2		
			**30	8	35	125	125	5	-	-	2.9	39.2	6.9	78.5	19.6	147.2		
			**40	8	35	125	-	5	-	-	4.9	39.2	6.9	78.5	-	-		
20	Steel Tip	20	**15	10	45	60	80	6	-	-	12.7	78.5	24.5	147.1	12.7	245.3		
			**20	10	45	72	-	6	-	-	11.7	78.5	22.6	147.1	-	-		
			**30	10	45	96	-	6	-	-	11.7	78.5	22.6	147.1	-	-		
24	Steel Tip	24	**40	10	45	120	-	6	-	-	11.7	78.5	22.6	147.1	-	-		
			**7	10	45	60	-	10	-	-	19.6	98.1	44.1	196.1	-	-		
			**15	10	45	60	84	10	-	-	19.6	98.1	47.1	215.7	24.5	314.0		
30	Steel Tip	30	**20	10	45	75	-	10	-	-	17.7	98.1	44.1	215.7	-	-		
			**30	10	45	100	-	10	-	-	17.7	98.1	44.1	215.7	-	-		
			**40	10	45	124	-	10	-	-	17.7	98.1	44.1	215.7	-	-		
30	Plastic Tip	30	**15	14	45	66	-	14	-	-	27.5	117.7	44.1	274.6	-	-		
			**20	14	45	78	-	14	-	-	27.5	117.7	53.0	274.6	-	-		
			**30	14	45	100	-	14	-	-	27.5	117.7	45.1	274.6	-	-		
30	Steel Tip	30	**40	14	45	123	-	14	-	-	27.5	117.7	47.1	274.6	-	-		

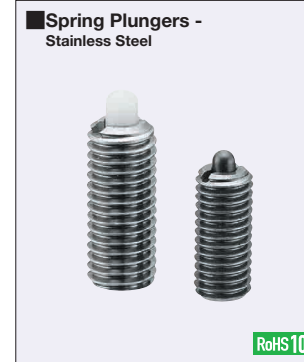
No Thread Locking Compound

Part Number	Type	M (Coarse)	S	d	ℓ	L		B	Ultra Light Load		Light Load		Heavy Load		Extra Heavy Load		Unit Price	
						Ultra Light / Light / Heavy Load	Extra Heavy Load		min.	max.	min.	max.	min.	max.	min.	max.	Ultra Light / Light / Heavy Load	Extra Heavy Load
5	Steel Tip	5	**3	2.0	20(27)	20	27	1.5	0.74	2.95	2.0	9.8	4.9	19.6	9.1	24.5		
			**5	2.0	27(39)	27	39	1.5	0.72	2.95	2.0	9.8	2.9	19.6	8.8	24.8		
			**3	2.5	25(30)	25	30	2	0.85	3.2	5.9	9.8	7.8	29.4	14.2	39.5		
6	Steel Tip	6	**5	2.5	30(36)	30	36	2	0.85	3.2	2.0	9.8	4.9	29.4	14.1	39.4		
			**3	3.1	25(27)	25	27	2.5	0.9	3.3	5.9	9.8	14.7	29.4	35.3	41.2		
			**5	3.1	27(30)	27	35	2.5	0.9	3.3	2.9	9.8	7.8	29.4	14.7	41.2		
8	Steel Tip	8	**5	3.8	30	30	35	3	1.9	4.7	5.9	14.7	8.8	49.0	15.7	62.8		
			**10	3.8	30	43	53	3	1.7	4.7	2.9	14.7	7.8	49.0	12.7	62.8		
			**15	5.5	30(35)	30	43	4	1.5	4.7	5.9	14.7	18.6	49.0	37.2	98.1		
10	Steel Tip	10	**10	5.5	35	43	58	4	1.3	5.9	2.9	19.6	7.8	49.0	14.7	98.1		
			**15	5.5	35	51	78	4	1.6	5.9	2.9	19.6	4.9	49.0	14.9	98.1		
			**20	8	35	60	60	5	1.7	12.8	5.9	39.2	12.7	78.5	23.5	147.2		
12	Plastic Tip	12	**20	8	35	85	90	5	1.7	12.8	4.9	39.2	9.8	78.5	12.7	147.2		
			**30	8	35	125	125	5	-	-	2.9	39.2	6.9	78.5	19.6	147.2		
			**40	8	35	125	-	5	-	-	4.9	39.2	6.9	78.5	-	-		
16	Steel Tip	16	**15	10	45	60	80	6	-	-	12.7	78.5	24.5	147.1	12.7	245.3		
			**20	10	45	72	-	6	-	-	11.7	78.5	22.6	147.1	-	-		
			**30	10	45	96	-	6	-	-	11.7	78.5	22.6	147.1	-	-		
20	Steel Tip	20	**40	10	45	120	-	6	-	-	11.7	78.5	22.6	147.1	-	-		
			**7	10	45	60	-	10	-	-	19.6	98.1	44.1	196.1	-	-		
			**15	10	45	60	84	10	-	-	19.6	98.1	47.1	215.7	24.5	314.0		
24	Steel Tip	24	**20	10	45	75	-	10	-	-	17.7	98.1	44.1	215.7	-	-		
			**30	10	45	100	-	10	-	-	17.7	98.1	44.1	215.7	-	-		
			**40	10	45	124	-	10	-	-	17.7	98.1	44.1	215.7	-	-		
30	Plastic Tip	30	**15	14	45	66	-	14	-	-	27.5	117.7	44.1	274.6	-	-		
			**20	14	45	78	-	14	-	-	27.5	117.7	53.0	274.6	-	-		
			**30	14	45	100	-	14	-	-	27.5	117.7	45.1	274.6	-	-		
30	Steel Tip	30	**40	14	45	123	-	14	-	-	27.5	117.7	47.1	274.6	-	-		

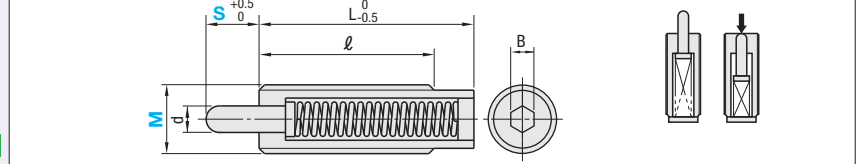
Part Number
NPJH3-1.5
PJS-N10-5

Spring Plungers / Wrenches / Block Plungers

Stainless Steel



Load Category	Type	Body		Nose		Spring	Operating Temperature
		Material	Hardness	Material	Hardness		
Stainless Steel Tip	Ultra Light Load	PJLSW	EN 1.4301 Equiv.	EN 1.4125 Equiv.	55HRC~	EN 1.4568 Equiv.	-30~260°C
	Light Load	PJLW					
	Heavy Load	PJHW					
Plastic Tip	Ultra Light Load	PJLSK	Polyacetal	-	-	-	-30~80°C
	Light Load	PJLW					
	Heavy Load	PJHW					



Part Number	Type	M (Coarse)	S	d	ℓ	B	Ultra Light Load (PJLSW, PJLSK)		Light Load (PJLW, PJLW)		Heavy Load (PJHW, PJHW)		Extra Heavy Load (PJXW, PJXK)		Unit Price	
							min.	max.	min.	max.	min.	max.	min.	max.	Stainless Steel Tip	Plastic Tip
3	(Stainless Steel Tip)	3	1.5	1.0	15	15	0.12	0.4	0.4	1.3	0.8	2.94	1.1	3.42		
			3	1.0	15	15	0.12	0.4	0.2	1.3						