


Spring Plungers

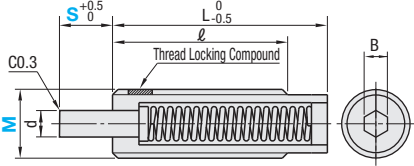
Flat Tip, For Inclined Surface, Flanged

Flat Tip




RoHS 10

Type	Body			Pin			Spring	Operating Temperature
	M Material	H Hardness	S Surface Treatment	M Material	H Hardness	S Surface Treatment		
PJLF (Light Load)	M S45C			M S45C			SWP-B	-30~80°C
	H 29~35HRC			H 57~63HRC (Carburized)				
	S Black Oxide			S Trivalent Chromate				

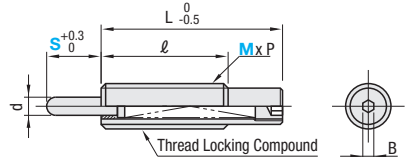


For Inclined Surface



RoHS 10

Type	Body			Pin			Spring	Operating Temperature
	M Material	H Hardness	S Surface Treatment	M Material	H Hardness	S Surface Treatment		
PJHZ	M S45C			M S45C			SWP-B	-30~80°C
	H 29~35HRC			H 50HRC~ (Carburized)				
	S Black Oxide			S Electroless Nickel Plating				



- ### Features of PJHZ
- Special structure with high abrasion resistance and seizing resistance enables the use on inclines.
(For conventional spring plungers, use 0°, under oil free condition; 5° or less with oil lubrication.)
 - Oil free use is possible.
 - Angle : 0~30°

Part Number Type	M (Coarse)	S	d	ℓ	L	B	Load N		Unit Price
							min.	max.	
PJLF	5	3	2.0	20	20	1.5	2.0	9.8	
		5	2.0	27	27	1.5	2.0	9.8	
	6	3	2.5	25	25	2	5.9	9.8	
		5	2.5	30	30	2	2.0	9.8	
	8	3	3.1	25	25	2.5	5.9	9.8	
		5	3.1	27	27	2.5	2.9	9.8	
	10	5	3.8	30	30	3	5.9	14.7	
		10	3.8	30	43	3	2.9	14.7	
	12	10	5.5	35	43	4	2.9	19.6	

kgf=Nx0.101972

- Thread Locking Treatment is where anaerobic thread locking compound in micro capsules is used to retain the threads. 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.

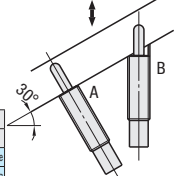
Part Number Type	M (Coarse)	S	d	S	ℓ	L	B	Load N		Unit Price
								min.	max.	
PJHZ	10	10	4	10	30	43	3	7.8	49.0	
		10	10	35	43		4	7.8	49.0	
	12	15	5	15	35	51		4.9	49.0	
		10	10	10	35	60		12.7	78.5	
	16	15	15	15	35	60		12.7	78.5	
		20	20	20	35	85		9.8	78.5	
		30	30	30	35	125		6.9	78.5	
			30	30	35	125				

kgf=Nx0.101972

Test Conditions

Press Machine : 20 TON Crank Press
 Cyclic Speed : 130SPM
 Inclination Angle : 30°
 Lubrication : Oil-Free


Type	Operating Life	
	A	B
PJHZ16-30	Over 300 thousand times or more	Over 300 thousand times or more
PJH16-30	Gauging at 17,000 cycles	Gauging at 50,000 cycles



(Note) This test result was obtained in conditions specified above. The service life changes according to the usage condition.

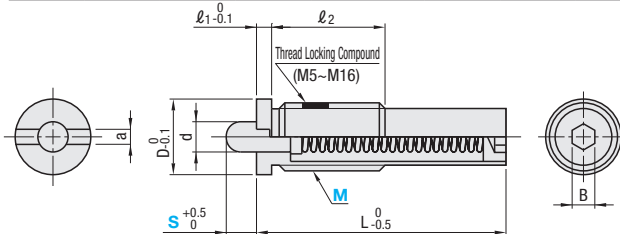
- Do not use the rear hex socket at the time of mounting or removal.

Flanged



RoHS 10

Type	Body			Pin			Spring	Operating Temperature
	M Material	H Hardness	S Surface Treatment	M Material	H Hardness	S Surface Treatment		
Light Load	FPJL			S45C	29~35HRC	Black Oxide	SWP-B	-30~80°C
Heavy Load	FPJH			S45C	57~63HRC (Carburized)	Trivalent Chromate Black Oxide		



- Thread Locking Treatment is where anaerobic thread locking compound in micro capsules is used to retain the threads. 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.

Part Number Type	M (Coarse)	S	d	L	B	D	ℓ1	ℓ2	a	FPJL Load (N)			FPJH Load (N)			Applicable Wrench	Unit Price
										min.	max.	min.	max.	min.	max.		
FPJL FPJH	3	1.5	1.1	10	0.9	5	1.5	5	0.5	0.5	1	0.8	2.9				
		3	15	0.3	1	0.8	2.9										
	4	2	1.6	15	1.3	6	1.8	6	0.7	1	2	2.9	8.8				
		4	24	0.6	2	2	8.8										
	5	3	2	20	1.5	7	2	8	1.2	2	9.8	4.9	19.6				
		5	27	2	9.8	2.9	19.6										
	6	3	2.5	25	2	8		9		5.9	9.8	7.8	29.4				
		5	30	2	9.8	4.9	29.4										
	8	3	3.1	25	2.5	10	2.5	12	1.5	5.9	9.8	14.7	29.4				
		5	27	2.9	9.8	7.8	29.4										
	10	5	3.8	30	3	12		15		5.9	14.7	8.8	49				
		10	43	2.9	14.7	7.8	49										
12	5	30	5.9	14.7	18.6	49											
	10	43	2.9	19.6	7.8	49											
	15	51	2.9	19.6	4.9	49											
	10	60	5.9	39.2	12.7	78.5											
	15	60	3.9	39.2	12.7	78.5											
	20	85	4.9	39.2	9.8	78.5											
16	30	125	2.9	39.2	6.9	78.5											
	40	125	4.9	39.2	6.9	78.5											

kgf=Nx0.101972

- M3 and M4 can be fixed with a flathead screwdriver.
- Do not use the rear hex socket at the time of mounting or removal.



Part Number	S
PJLF6	3
PJHZ16	20
FPJL3	1.5

- ### Features:
- The flange makes easier height adjustment.

