

Spring Plungers

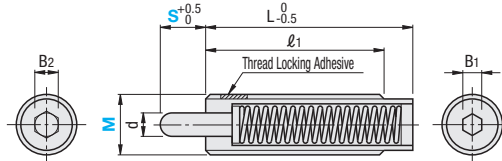
Hex Socket / Hex Nose

Hex Socket Body Type

RoHS10



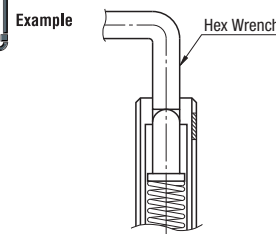
Type	Body			Pin			Spring	Operating Temperature
	Material	Hardness	Surface Treatment	Material	Hardness	Surface Treatment		
PJLH (Light Load)	1045 Carbon Steel	29~35HRC	Black Oxide	1045 Carbon Steel	57~63HRC (Carburized)	Trivalent Chromate	SWP-B	-30~80°C



⚠ To fix position of the ball plunger microencapsulated anaerobic adhesive is applied. Once parts have been loosened, adhesion is lost. Use an anaerobic thread locking compound when reassembling.
 ⚠ The adhesive is most effective if left on the part 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 adhesive will be less-effective.

Part Number Type	M	S	d	ℓ ₁	L	B ₁	B ₂	For Light Load N [kgf]		Unit Price
								min.	max.	
PJLH	8	3	3	25	25	2.5	3	5.8 {0.6}	9.8 {1.0}	
		5						2.7 {0.3}	9.8 {1.0}	
	10	5	4	30	34	3	4	5.8 {0.6}	14.7 {1.5}	
		10						2.6 {0.3}	14.7 {1.5}	
12	5	5	35	38	4	5	5.6 {0.6}	14.7 {1.5}		
	10						3.0 {0.3}	19.7 {2.0}		

kgf=Nx0.101972



Ordering Example: Part Number PJLH 8 - S 3

Days to Ship: Configure Online

Price: Configure Online

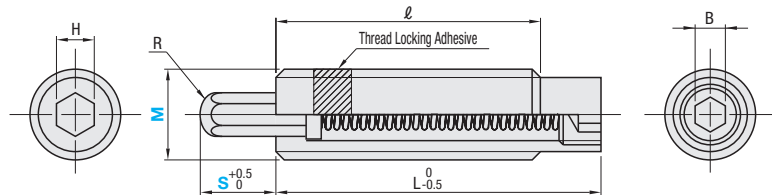
Feature: The hex shape of pin allow this spring plunger to be installed with socket wrench or spanner.

Hex Nose

RoHS10



Type	Body			Pin			Spring	Operating Temperature
	Material	Hardness	Surface Treatment	Material	Hardness	Surface Treatment		
Light Load PJLR	1045 Carbon Steel	29~35HRC	Black Oxide	1045 Carbon Steel	57~63HRC (Carburized)	Trivalent Chromate	SWP-B	-30~0°C
Heavy Load PJHR								

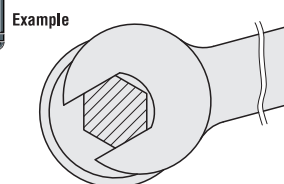


⚠ To fix position of the ball plunger microencapsulated anaerobic adhesive is applied. Once parts have been loosened, adhesion is lost. Use an anaerobic thread locking compound when reassembling.
 ⚠ The adhesive is most effective if left on the part for 72 hours or more in 25°C. It should be noted if the parts are left for short period of time and in low temperature, the thread locking adhesive will be less-effective.

Part Number Type	M	S	MxPitch (Coarse)	H	R	ℓ	L	B	Light Load Heavy Load				Unit Price
									Load N [kgf]				
									min.	max.	min.	max.	
PJLR PJHR	10	5	10x1.5	4	2.2	30	30	3	5.9 {0.6}	14.7 {1.5}	8.8 {0.9}	49.0 {5.0}	
		10							2.9 {0.3}	14.7 {1.5}	7.8 {0.8}	49.0 {5.0}	
		5							5.9 {0.6}	14.7 {1.5}	18.6 {1.9}	49.0 {5.0}	
		12							2.9 {0.3}	19.6 {2.0}	7.8 {0.8}	49.0 {5.0}	
		15							2.9 {0.3}	19.6 {2.0}	4.9 {0.5}	49.0 {5.0}	
		10							5.9 {0.6}	39.2 {4.0}	12.7 {1.3}	78.5 {8.0}	
	16	15	16x2.0	7	4.1	35	60	5	3.9 {0.4}	39.2 {4.0}	12.7 {1.3}	78.5 {8.0}	
		20							4.9 {0.5}	39.2 {4.0}	9.8 {1.0}	78.5 {8.0}	

kgf=Nx0.101972

Ordering Example: Part Number PJHR 10 - S 10



Days to Ship: Configure Online

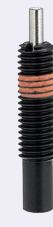
Price: Configure Online

Spring Plungers

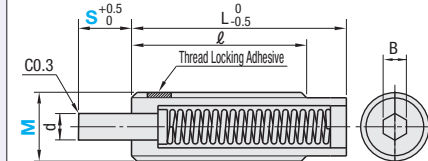
Flat Tip / For Inclined Surface / Flanged

Flat Tip

RoHS10

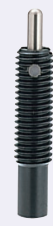


Type	Body			Pin			Spring	Operating Temperature
	Material	Hardness	Surface Treatment	Material	Hardness	Surface Treatment		
PJLF (Light Load)	M	1045 Carbon Steel		M	1045 Carbon Steel		SWP-B	-30~80°C
	H	29~35HRC		H	57~63HRC (Carburized)			
	S	Black Oxide		S	Trivalent Chromate			

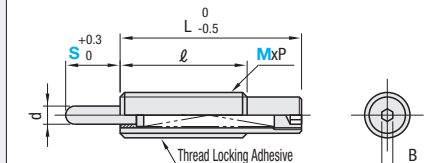


For Inclined Surface

RoHS10



Type	Body			Pin			Spring	Operating Temperature
	Material	Hardness	Surface Treatment	Material	Hardness	Surface Treatment		
PJHZ	M	1045 Carbon Steel		M	1045 Carbon Steel		SWP-B	-30~80°C
	H	29~35HRC		H	50HRC- (Carburized)			
	S	Black Oxide		S	Electroless Nickel Plating			



Features of PJHZ

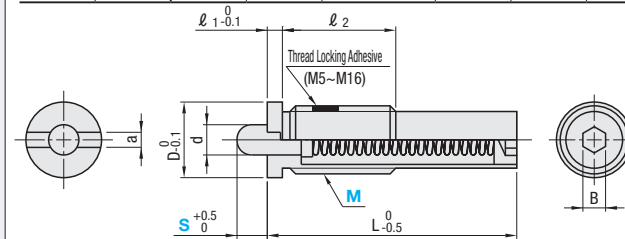
- Special structure with high abrasion resistance and seizing resistance enables the use on inclines. (For conventional spring plungers, use 0°, under oil free condition; 5° or less with oil lubrication.)
- Oil free use is possible.
- Angle: 0~30°

Flanged

RoHS10



Type	Body			Pin			Spring	Operating Temperature
	Material	Hardness	Surface Treatment	Material	Hardness	Surface Treatment		
Light Load FPJL	1045 Carbon Steel	29~35HRC	Black Oxide	1045 Carbon Steel	57~63HRC (Carburized)	Trivalent Chromate	SWP-B	-30~80°C
Heavy Load FPJH								



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Part Number Type	M (Coarse)	S	d	L	B	D	ℓ ₁	ℓ ₂	a	FPJL Load (N)		FPJH Load (N)		Applicable Wrench	Unit Price	
										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	PJG1		
										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
											0.6	2	2			8.8
		5	3	2	20	1.5	7	2	8	1.2	2	9.8	4.9			19.6
											2	9.8	2.9			19.6
	6	3	2.5	25	2	8		9		5.9	9.8	7.8	29.4			
										2	9.8	4.9	29.4			
	8	3	3.1	27	2.5	10	2.5	12	1.5	5.9	9.8	14.7	29.4			
										2.9	9.8	7.8	29.4			
	10	5	3.8	30	3	12		15		5.9	14.7	8.8	49	PJG2A		
										2.9	14.7	7.8	49			
12		10	5.5	43	4	14		20		5.9	14.7	18.6	49			
										2.9	19.6	4.9	49			
16		15	8	85	5	18		25		5.9	39.2	12.7	78.5			
										4.9	39.2	9.8	78.5			

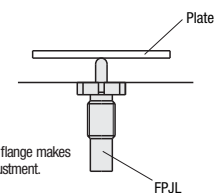
M3 and M4 can be fixed with a flat blade screwdriver.

kgf=Nx0.101972

Ordering Example: Part Number PJLF 6 - S 3

Days to Ship: Configure Online

Price: Configure Online



Feature: The flange makes easier height adjustment.

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							
	6	3	2.5	30	30	2	2.0	2.0	9.8
		5							
	8	5	3.1	27	27	2.5	2.9	2.9	9.8
		10							
	10	5	3.8	30	43	3	2.9	14.7	
		12							

kgf=Nx0.101972

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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	
	16	10	15	10	35	60	5	12.7	78.5	
	20	15	20	35	85	5		9.8	78.5	

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.

