

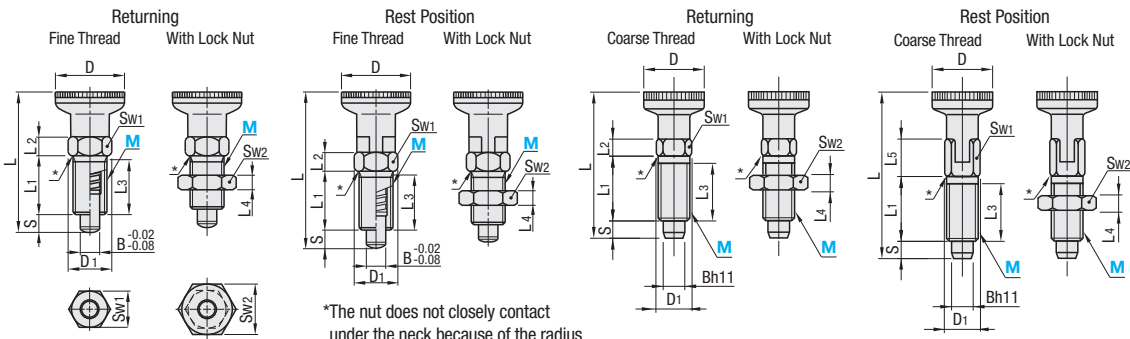
Indexing Plungers

Fine Thread / Coarse Thread

Fine Thread / Coarse Thread



Screw	Returning	Rest Position	Knob	Main Body		Pin		Spring	(Lock Nut)	
				M Material	S Surface Treatment	M Material	H Hardness		M Material	S Surface Treatment
Fine Thread	PXA	PXYA	Nylon 6 (Mat Black)	SUM22L	Black Oxide	S45C	50~60HRC	Black Oxide	SWP-B	-
	PXK	PXYK		SUS303	-	SUS303	-	Nickel Plating	SUS303	Black Oxide
	SXPA	-		SUS303	-	SUS303	-	-	SUS303	-
Coarse Thread	SXPK	SXYK	SUM22L	Trivalent Chromate	SUS303	-	-	-	SUS301	-
	PMXA	PMXYA								S45C
	PMXK	PMXYK								Trivalent Chromate



• Features of the Returning Type and Rest Position Type **P.1779**

Fine Thread

M	Pitch (Fine Thread)	D	D ₁	B	S min.	L		L ₁	L ₂	L ₃	L ₄	Sw ₁	Sw ₂	Load (N)				Mass (g)			
						Returning	Rest Position							PXA, PKX	PXYK	SXPA, SXPK	SXYK	PXA	PXK	PXYA	PXYK
														min.	max.	min.	max.	min.	max.	min.	max.
10	1.0	21	13.8	5	5	45	51	17	5	15	5	12	17	7	17	6	15	20	27	23	30
12	1.5	25	16.2	6	6	54.5	61	20	6	17	6	14	18	9	24	8	21	32	42	38	48
16	1.5	31	21.9	8	8(7)	69	75.5	26	8	23	8	19	24	11	30	9	26	70	90	79	99

Min. S dimension of Rest Position Type M16 is shown in the (). kgf=Nx0.101972

Part Number		Unit Price							
Type	M	PXA	SXPA	PXK	SXPK	PXYA	PXYK	SXYK	
(Stainless Steel)	10								
PXA	12								
PXK	16								
PXYA									
PXYK									
SXYK									

Coarse Thread

Part Number	Type	M	Pitch (Coarse Thread)	D	D ₁	B	S min.	L		L ₁	L ₂	L ₃	L ₄	L ₅	Sw1	Sw2	Load (N)		Mass (g)				Unit Price
								Returning	Rest Position								min.	max.	PMXA	PMXK	PMXYA	PMXYK	
PMXA	6M	1.0	12	6.9	4	4	4	30.5	33	12	4.5	10	3.2	7	6	10	3	12	5	9	4	8	
PMXK	8M	1.25	16	9.2	5	5	5	40	43.5	16	6	14	4	9.5	8	13	5	24	10	15	11	16	
PMXYA	10M	1.5	18	11.5	6	6	6	49	52	20	7.5	18	5	10.5	10	16	5	21	17	24	18	15	
PMXYK	12M	1.75	21	13.8	8	8	8	59	63.5	24	9	22	6	13.5	12	18	6	22	31	41	36	46	

kgf=Nx0.101972

Ordering Example
Part Number
SXPA16
PMXK10M

Since the Coarse Thread Type (PMXA, PMXK, PMXYA, PMXYK) are thin threaded, do not exceed the tightening torques shown in the table to the right.

M	Allowable Tightening Torque (N · m)
6	1.5
8	9
10	20
12	25

Ball Lock Pins

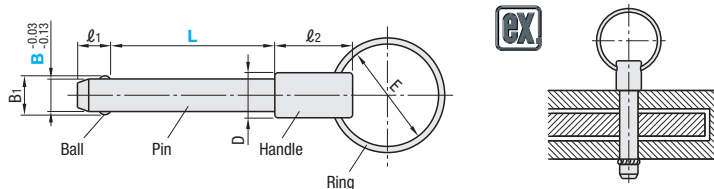
Spring Type / Push Type

■ Features: Locks with the spring force. Priced at approx. 1/3 of the Push Type.

Ball Lock Pins - Spring Type



Type		Ball		Pin		Handle		Ring	
L Selectable	L Configurable	M Material	H Hardness	M Material	S Surface Treatment	M Material	S Surface Treatment	M Material	S Surface Treatment
BLPS	BLPF	SUS440C	HRC55~	S45C	Electroless Nickel Plating	SUM23	Electroless Nickel Plating	SWRH	Nickel Plating



L Selectable

Part Number	Type	B	L Selection					B ₁	ℓ ₁	D	ℓ ₂	E	Unit Price				
			5	6	8	10	12						L=25	L=30	L=40	L=50	L=60
BLPS		5	30					5.5	6	11	22	25	-	-	-	-	-
		6	25	30	40	50		7	7	11	22	25					
		8	25	30	40	50		9.5	8	11	22	25					
		10	25	30	40	50	60	12	9	16	27	25					
		12					60	14.5	10	16	27	25	-	-	-	-	-
		16					60	19	14	19	32	25	-	-	-	-	-

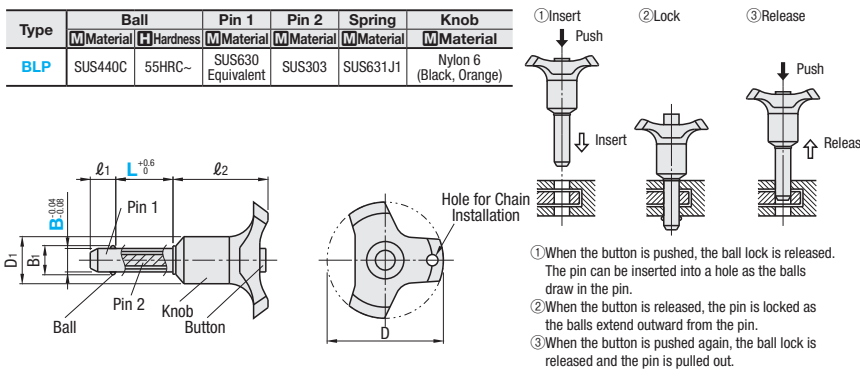
L Configurable

Part Number	Type	B	L 5mm Increment					B ₁	ℓ ₁	D	ℓ ₂	E	Unit Price	
			5	6	8	10	12							
BLPF		5	10~30					5.5	6	11	22	25		
		6	15~50					7	7	11	22	25		
		8	20~100					9.5	8	11	22	25		
		10	25~100					12	9	16	27	25		
		12	30~100					14.5	10	16	27	25		
		16	50~100					19	14	19	32	25		

Ordering Example
Part Number
BLPS8
BLPF10
L
25
45

B	Mating Hole Dimensions	Resistance when Removed (N)	Pin Fracture Load (kN)	Mass (g)
5	5 +0.07 0	9	5	19~22
6	6 +0.07 0	9	7	21~28
8	8 +0.09 0	9	13	27~58
10	10 +0.09 0	20	20	59~105
12	12 +0.11 0	30	29	73~135
16	16 +0.11 0	50	51	159~237

Ball Lock Pins - Push Type



Part Number	Type	B	L					D	D ₁	B ₁	ℓ ₁	ℓ ₂	Mating Hole Recommended Dimensions	Shear Load (kN)	Mass (g)	Unit Price			
			5	6	8	10	12									L=10~25	L=30~50	L=60, 80	L=100
BLP		5	10	15	20	25	30	38	16	7	7	31.5	5 +0.07 0	24	30~32			-	-
		6	10	15	20	25	30						6 +0.07 0	35	31~39			-	-
		8											8 +0.09 0	63	38~47			-	-
		10						43	23	14.5	10	36	10 +0.09 0	100	76~97			-	-
		12											12 +0.11 0	144	100~135			-	-
		16											16 +0.11 0	257	171~232			-	-

Ordering Example
Part Number
BLP8
L
25