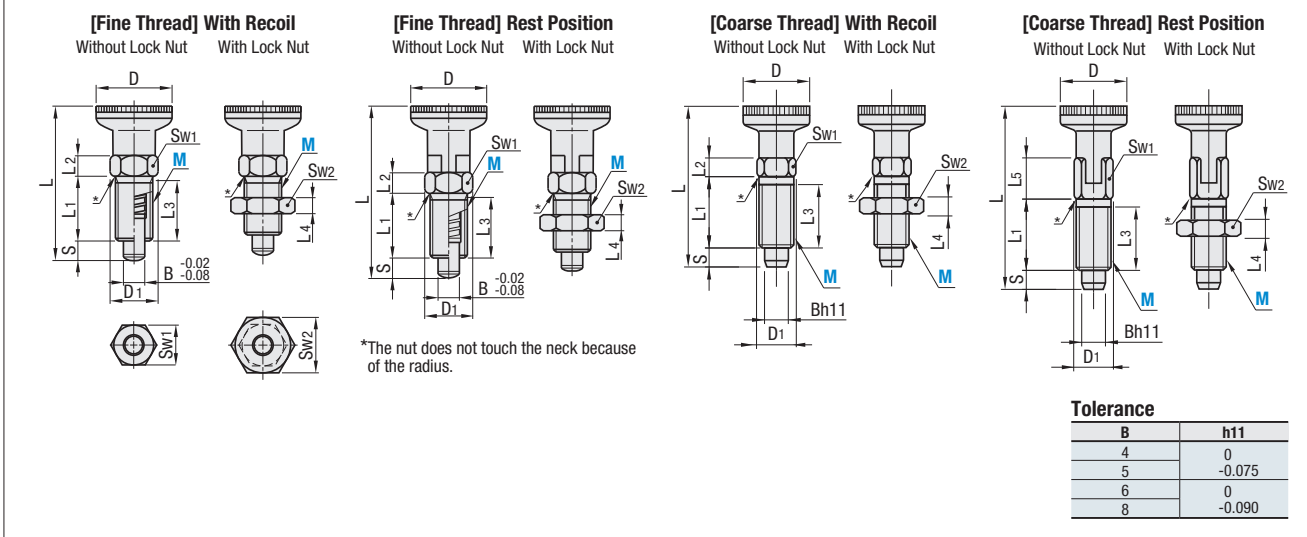


# Indexing Plungers

## Fine Threaded With Recoil

Screw	Return Type	Rest Position Type	Knob Material	Main Body		Pin		Spring Material	(Lock Nut)					
				Material	Surface Treatment	Material	Hardness		Surface Treatment	Material	Surface Treatment			
Fine Thread	PXA	PXYA	Nylon 6 (Mat Black)	12L13 Carbon Steel	Black Oxide	1045 Carbon Steel or Equivalent	50-60 HRC min.	Black Oxide	JIS SWP-B Spring Steel	—	—			
	PXK	PXYK								1045 Carbon Steel or Equivalent	Black Oxide			
	SXPA	—								303 Stainless Steel	—	303 Stainless Steel	—	301 Stainless Steel
	SXPX	SXYX												
Coarse Thread	PMXA	PMXYA	12L13 Carbon Steel	Trivalent Chromate	303 Stainless Steel	—	—	—	—	—	—			
	PMXK	PMXYK								1045 Carbon Steel or Equivalent	Trivalent Chromate			



Part Number		Pitch (Fine Thread)	D	D <sub>1</sub>	B	S min.	L		Load (N)					Mass (g)								
Type	M						Return Type	Rest Position	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	S <sub>w1</sub>	S <sub>w2</sub>	PXA / PXYA / PXK / PXYK	SXPA / SXPX / SXYX	PXA SXPA	PXK SXPX	PXYA	PXYK SXYK		
PXA PXK SXPA SXPX PXYA PXYK SXYX	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

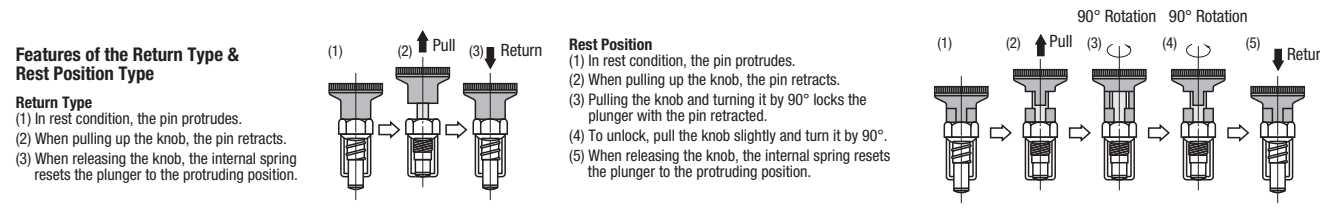
Min. S dimension of Rest Position Type M16 is shown in the ( ). kgf=Nx0.101972

Part Number		Pitch (Coarse)	D	D <sub>1</sub>	B	S min.	L		Load (N)					Mass (g)				M	Allowable Tightening Torque (N-m)				
Type	M						Return Type	Rest Position	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	L <sub>5</sub>	S <sub>w1</sub>	S <sub>w2</sub>	min.	max.			PMXA	PMXK	PMXYA	PMXYK
PMXA	6M	1.0	12	6.9	4	4	30.5	33	12	4.5	10	3.2	7	6	10	3	12	5	9	4	8	6	2
PMXK	8M	1.25	16	9.2	5	5	40	43.5	16	6	14	4	9.5	8	13	5	24	10	15	11	16	8	7
PMXYA	10M	1.5	18	11.5	6	6	49	52	20	7.5	18	5	10.5	10	16	5	21	17	24	18	15	10	15
PMXYK	12M	1.75	21	13.8	8	8	59	63.5	24	9	22	6	13.5	12	18	6	22	31	41	36	46	12	20

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

**Part Number Example**

Part Number: SXPA16, PMXK10M



# Indexing Plungers

## Flanged / Tapped Nose Plunger

Threads	Return Type	Rest Position Type	Knob		Main Body		Pin		Spring		Flange		(Lock Nut)	
			Material	Surface Treatment	Material	Surface Treatment	Material	Hardness	Surface Treatment	Material	Material	Surface Treatment	Material	Surface Treatment
Fine Thread	FPXA	FPXY	2017 Aluminum Alloy (Black Anodize)	Black Oxide	1213 Carbon Steel	Black Oxide	1045 Carbon Steel or Equivalent	50-60 HRC min.	Black Oxide	631 Stainless Steel	1018 Carbon Steel or Equivalent	Trivalent Chromate	—	—
	FPXK	FPXR											1018 Carbon Steel or Equivalent	Black Oxide

Part Number Type	M	Pitch (Fine)	D	D <sub>1</sub>	S	B	Return Type		Rest Position Type		L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	S <sub>w1</sub>	S <sub>w2</sub>	SR	A	W	P	d	Load (N)	
							L	L	min.	max.													
Return Type	8	1	15	11.5	4	4	40	46	16	5	14	4	10	13	2	20	46	34	6	3	9		
	10L						42	48	5	15	5	12	17	2.5	20	48	36	5				12	
Rest Position Type	12	1.5	21	16.2	6	6	54.5	60.5	20	6	17	6	14	19	3	22	55	40	8	6.5	14.5		
	12L						58.5	64.5	6	19	3	22	55	40	7.15	18							
	16L	1.5	26	21.9	8	8	68	75.5	26	8	23	8	19	4	25	60	45	8	7.15	20	25		

**Part Number Example** Part Number: FPXA8

**Application Example**

The indexing plunger is mounted to the flange through a tapped hole, making vertical adjustments possible. After adjustment, lock nuts can be used for fixing the plunger at the desired position.

Type	Knob Material	Main Body Material	Main Body Surface Treatment	Pin		Spring		Lock Nuts		
				Material	Hardness	Material	Material	Surface Treatment	Surface Treatment	
PXTAB	PXTYB	2017 Aluminum Alloy (Black Anodize)	1213 Carbon Steel	Black Oxide	1045 Carbon Steel or Equivalent	50-60 HRC min.	Black Oxide	631 Stainless Steel	—	—
PXTNB	PXTSB								1018 Carbon Steel or Equivalent	Black Oxide
PXTAS	PXTYS	303 Stainless Steel	—	440C Stainless Steel	45 HRC min.	—	—	303 Stainless Steel	—	—
PXTNS	PXTSS									

Part Number Type	M	S (Stroke)	Pitch (Fine)	D	D <sub>1</sub>	B	M <sub>1</sub>	Return Type		Rest Position Type		L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	S <sub>w1</sub>	S <sub>w2</sub>	Load (N)	
								L	L	min.	max.								
Return Type	10	5	1.0	18	13.8	5	M3	45	50	17	5	15	5	12	17	5	11.5		
								48	53	5	16								
Rest Position Type	12	6	1.5	21	16.2	6	M4	54.5	60.5	20	6	17	6	14	19	6.5	14.5		
								58.5	64.5	6	19	3	20						
	16	7	1.5	26	21.9	8	M5	68	75.5	26	8	23	8	19	24	7.15	18		
		12						73	80.5									25	

**Part Number Example** Part Number: PXTAB10-5

**Application Example**

The indexing plunger is mounted to the attachment through a tapped hole, making vertical adjustments possible. After adjustment, lock nuts can be used for fixing the plunger at the desired position.