

Indexing Plungers

Tip Shape Selectable

Standard **RoHS**

Screw	Return Type			Rest Position			Knob	Main Body		Pin		Spring	(Lock Nut)	
	Spherical	Tapered	Flat	Spherical	Tapered	Flat		Material	Surface Treatment	Material	Hardness		Surface Treatment	Material
Fine Thread	PXAN	PXAT	PXAF	PXYAN	PXYAT	PXYAF	2017 Aluminum Alloy (Black Anodize)	1213 Carbon Steel	1045 Carbon Steel	50-60HRC	Black Oxide	631 Stainless Steel	-	-
	PXKN	PXKT	PXKF	PXYKN	PXYKT	PXYKF	303 Stainless Steel	-	440C Stainless Steel	45HRC~	-	1018 Carbon Steel	Black Oxide	
	SXPAN	SXPAT	SXPAF	SXYAN	SXYAT	SXYAF	-	-	-	-	-	Trivalent Chromate	-	
	SXPKN	SXPKT	SXPKF	SXYKN	SXYKT	SXYKF	-	-	-	-	-	1018 Carbon Steel	Black Oxide	

For M=5, 6 and 8L, the pin hardness is 40-45HRC.

-Return Type-

PXA SXPA

With Lock Nut PXK SXPK

-Rest Position-

PXYA SYXA

With Lock Nut PXYK SYXK

Shape: Spherical, Tapered, Flat

Mass (g)

M	PXA SXPA	PXK SXPK	PXYA SYXA	PXYK SYXK
5	4.5	5.5	5	6
6	6.7	8.7	8	10
8	12	17	13	18
10	20	27	23	30
12	32	42	38	48
16	70	90	79	99

Part Number			Pitch (Fine Thread)	D	D ₁	S	B	L		L ₁	L ₂	L ₃	L ₄	L ₅	Sw1	Sw2	SR	Load (N)		
Type								M	Return Type									Rest Position	min.	max.
Return Type (Spherical) (Tapered) (Flat) PXAN PXAT PXAF PXYAN PXYAT PXYAF PXKN PXKT PXKF PXYKN PXYKT PXYKF SXPAN SXPAT SXPAF SXYAN SXYAT SXYAF SXPKN SXPKT SXPKF SXYKN SXYKT SXYKF			5	0.5	10	8.1	5	2	35	41	15	3	14	2.7	1.5	7	8	1	1	6
			6	0.75	12	9.2	5	2.5	36	42	15	4	13.5	3.2	1.5	8	10	1.3	1	6
			8	1.0	15	11.5	4	4	40	46	16	5	14	4	1.5	10	13	2	3	9
			8L				6	4	42	48										12
			10	1.0	18	13.8	5	5	45	50	17	5	15	5	2.0	12	17	2.5	5	11.5
			10L				8	5	48	53										16
			12	1.5	21	16.2	6	6	54.5	60.5	20	6	17	6	2.5	14	19	3	6.5	14.5
			12L				10	6	58.5	64.5										18
			16	1.5	26	21.9	7	8	68	75.5	26	8	23	8	3.0	19	24	4	7.15	20
			16L				12	8	73	80.5										25

⚠ M dimensions with "L" have longer strokes compared to the conventional products.

🌀 Relief at Thread Base: None for M=5 and 6; provided for M=8–16.

kgf=Nx0.101972

M dimensions with "L" have longer strokes compared to the conventional products. Relief at Thread Base: None for M=5 and 6; provided for M=8-16.

kgf=Nx0.101972

Ordering Example: SXPAN12L PXKF10

Days to Ship: [Configure Online](#)

Price: [Configure Online](#)

Return Type

M	Spherical				Tapered				Flat			
	PXAN	PXKN	SXPAN	SXPKN	PXAT	PXKT	SXPAT	SXPKT	PXAF	PXKF	SXPAF	SXPKF
5												
6												
8												
8L												
10												
10L												
12												
12L												
16												
16L												

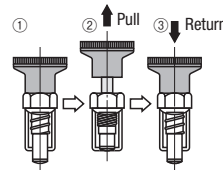
Rest Position

M	Spherical				Tapered				Flat			
	PXYAN	PXYKN	SXYAN	SXYKN	PXYAT	PXYKT	SXYAT	SXYKT	PXYAF	PXYKF	SXYAF	SXYKF
5												
6												
8												
8L												
10												
10L												
12												
12L												
16												
16L												

Feature of the Return Type and Rest Position Type

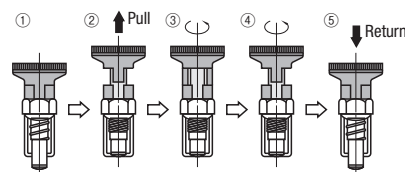
Return Type

- In normal condition, the pin protrudes.
- When pulling up the knob, the pin retracts.
- When releasing the knob, the internal spring resets the plunger to the protruding position.



Rest Position

- In normal condition, the pin protrudes.
- When pulling up the knob, the pin retracts.
- Pulling the knob and turning it by 90° locks the plunger with the pin retracted.
- To unlock, pull the knob slightly and turn it by 90°.
- When releasing the knob, the internal spring resets the plunger to the protruding position.



Indexing Plungers

Flanged / Tapped Tip

Flanged **RoHS**

Screw	Return Type	Rest Position	Knob		Main Body		Pin		Spring	Flange		(Lock Nut)	
			Material	Surface Treatment	Material	Surface Treatment	Material	Hardness		Surface Treatment	Material	Surface Treatment	
Fine Thread	FPXA	FPXY	2017 Aluminum Alloy (Black Anodize)	1213 Carbon Steel	Black Oxide	1045 Carbon Steel	50-60HRC	Black Oxide	631 Stainless Steel	1018 Carbon Steel	Trivalent Chromate	-	-
	FPXK	FPXR	-	-	-	440C Stainless Steel	45HRC~	-	-	1018 Carbon Steel	Black Oxide	-	-

For M=8 and 8L, the pin hardness is 40-45HRC.

-Return Type-

FPXA

With Lock Nut FPXK

-Rest Position-

FPXY

With Lock Nut FPXR

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 determined position.

Part Number Type

M	Pitch (Fine Thread)	D	D ₁	S	B	Return Type	Rest Position	L ₁	L ₂	L ₃	L ₄	Sw1	Sw2	SR	A	W	P	d	Load (N) min. max.
8	1	15	11.5	4	4	40	46	16	5	14	4	10	13	2	20	46	34	6	3 9
8L				4	4	42	48	16	5	14	4	10	13	2	20	46	34	6	12
10	1	18	13.8	5	5	45	50	17	5	15	5	12	17	2.5	20	48	36	5	11.5 16
10L				5	5	48	53	17	5	15	5	12	17	2.5	20	48	36	5	16
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				6	6	58.5	64.5	20	6	17	6	14	19	3	22	55	40	8	20
16	1.5	26	21.9	7	8	68	75.5	26	8	23	8	19	24	4	25	60	45	8	18
16L				7	8	73	80.5	26	8	23	8	19	24	4	25	60	45	8	25

M dimensions with "L" have longer strokes compared to the conventional products.

Ordering Example: FPXA8

Days to Ship: [Configure Online](#)

M	Unit Price Spherical			
	FPXA	FPXK	FPXY	FPXR
8				
8L				
10				
10L				
12				
12L				
16				
16L				

Example:

The flanges enable the plunger to be adjusted to right or left.

Tapped Tip

Tapped Tip **RoHS**

Type	Return Type	Rest Position	Knob		Main Body		Pin		Spring	Lock Nut	
			Material	Surface Treatment	Material	Surface Treatment	Material	Hardness		Surface Treatment	Material
PXTAB	PXTYB	PXTNB	2017 Aluminum Alloy (Black Anodize)	1213 Carbon Steel	Black Oxide	1045 Carbon Steel	50-60HRC	Black Oxide	631 Stainless Steel	1018 Carbon Steel	Black Oxide
PXTAS	PXTYS	PXTNS	-	-	-	440C Stainless Steel	45HRC~	-	-	1018 Carbon Steel	Black Oxide

-Return Type-

PXTA

With Lock Nut PXTN

-Rest Position-

PXTY

With Lock Nut PXTS

Part Number Type

M	S (Stroke)	Pitch (Fine)	D	D ₁	B	M ₁	ℓ	Return Type	Rest Position	L ₁	L ₂	L ₃	L ₄	Sw1	Sw2	Load (N) min. max.
10	5	1.0	18	13.8	5	M3	5	45	50	17	5	15	5	12	17	5 11.5
	8							48	53	17	5	15	5	12	17	16
12	6	1.5	21	16.2	6	M4	6	54.5	60.5	20	6	17	6	14	19	6.5 14.5
	10							58.5	64.5	20	6	17	6	14	19	20
16	7	1.5	26	21.9	8	M5	8	68	75.5	26	8	23	8	19	24	7.15 18
	12							73	80.5	26	8	23	8	19	24	25

Ordering Example: PXTAB10-5

Days to Ship: [Configure Online](#)

M	S	Unit Price			
		Return Type	Rest Position		
10	5	PXTAB	PXTNB	PXTAS	PXTNS
10	8	PXTYB	PXTSB	PXTYS	PXTSS
12	6				
12	10				
16	7				
16	12				

Price: [Configure Online](#)

Example: