

# Indexing Plungers

## Standard

■ **Features:** Alteration of tip shapes makes it possible to use the product as the application demands.

### ■ Standard

Images of indexing plungers with different tip shapes and configurations.

**Returning**

**Rest Position**

**With Lock Nut**

**Shape**

**Mass (g)**

| M  | PXA | PXK | PXYA | PXYK |
|----|-----|-----|------|------|
| 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<br>(Fine Thread) | D    | D <sub>1</sub> | S    | B  | L             |      | L <sub>1</sub> | L <sub>2</sub> | L <sub>3</sub> | L <sub>4</sub> | L <sub>5</sub> | Sw1 | Sw2 | SR | Load (N) |      |      |
|------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------------|------------------------|------|----------------|------|----|---------------|------|----------------|----------------|----------------|----------------|----------------|-----|-----|----|----------|------|------|
| Type                         | M                                                                          | Returning                                                                        |                        |      |                |      |    | Rest Position | min. |                |                |                |                |                |     |     |    | max.     |      |      |
| (Spherical) (Tapered) (Flat) | PXAN PXAT PXAF<br>PXKN PXKT PXKF<br>SXPAN SXPAT SXPAF<br>SXPKN SXPKT SXPKF | PXYAN PXYAT PXYAF<br>PXYKN PXYKT PXYKF<br>SXYAN SXYAT SXYAF<br>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           |                |                |                |                |     |     |    |          |      | 20   |
|                              |                                                                            |                                                                                  | 16                     | 1.5  | 26             | 21.9 | 7  | 8             | 68   | 75.5           | 26             | 8              | 23             | 8              | 3.0 | 19  | 24 | 4        | 7.15 | 18   |
|                              |                                                                            |                                                                                  | 16L                    |      |                |      | 12 | 8             | 73   | 80.5           |                |                |                |                |     |     |    |          |      | 25   |

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⚙ 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  
Part Number  
SXPAN12L  
PXKPF10

### ■ Returning

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

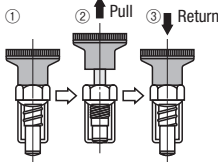
### ■ Rest Position

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

### ■ Features of the Returning Type and Rest Position Type

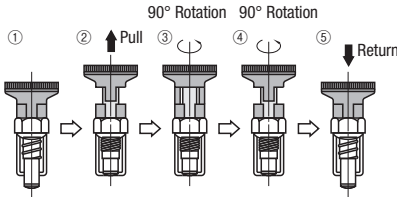
#### • Returning

- ① In normal condition, the tip protrudes.
- ② When pulling up the knob, the tip retracts.
- ③ When releasing the knob, the internal spring resets the plunger to the protruding position.



#### • Rest Position

- ① In normal condition, the tip protrudes.
- ② When pulling up the knob, the tip retracts.
- ③ Pulling the knob and turning it by 90° locks the plunger with the tip retracted.
- ④ To unlock, pull the knob slightly and turn it by 90°.
- ⑤ When releasing the knob, the internal spring resets the plunger to the protruding position.



# Indexing Plungers

## Flanged / Tapped Tip

■ **Features:** The flanges enable the indexing plunger to be adjusted to right or left.

### ■ Flanged

Images of flanged indexing plungers.

**Returning**

**Rest Position**

**With Lock Nut**

**Shape**

**Mass (g)**

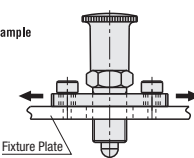
| M  | PXA | PXK | PXYA | PXYK |
|----|-----|-----|------|------|
| 5  | 4.5 | 5.5 | 5    | 6    |
| 6  | 6.7 | 8.7 | 8    | 10   |
| 8  | 12  | 17  | 13   | 18   |
| 10 | 20  | 27  | 23   | 30   |
| 12 | 32  | 42  | 38   | 48   |
| 16 | 70  | 90  | 79   | 99   |

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

Ordering Example  
Part Number  
FPXA8

| M   | Unit Price |      |      |      |
|-----|------------|------|------|------|
|     | 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.

■ **Features:** By mounting the attachment to the tip, the pin dia. and length are adjustable, and the workpiece can be clamped.

### ■ Tapped Tip

Images of tapped tip indexing plungers.

**Returning**

**Rest Position**

**With Lock Nut**

**Shape**

**Mass (g)**

| M  | PXA | PXK | PXYA | PXYK |
|----|-----|-----|------|------|
| 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   |

Ordering Example  
Part Number  
PXTAB10-5

| M  | S  | Unit Price |       |       |       |       |        |       |       |
|----|----|------------|-------|-------|-------|-------|--------|-------|-------|
|    |    | PXTAB      | PXTNB | PXTAS | PXTNS | PXTYB | PXTYSB | PXTYS | PXTSS |
| 10 | 5  |            |       |       |       |       |        |       |       |
| 10 | 8  |            |       |       |       |       |        |       |       |
| 12 | 6  |            |       |       |       |       |        |       |       |
| 12 | 10 |            |       |       |       |       |        |       |       |
| 16 | 7  |            |       |       |       |       |        |       |       |
| 16 | 12 |            |       |       |       |       |        |       |       |

Example

