

Locating Pins - Large Head, Tapered Threaded

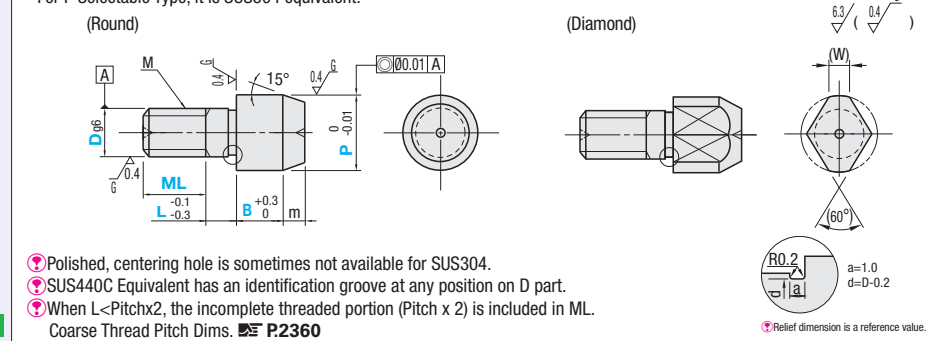
■ **Features:** Large Head, Tapered, Press Fit + Lock Nut Shape. Improved maintainability compared to Press Fit Type.



Material No.	Material	Surface Treatment	Hardness	P Selectable Type	P, L, B Configurable Type	P, L, B, ML Configurable Type
(1)	SKS3 Equivalent	-	Treated Hardness: 60~63HRC	JPN	FPN	FPNL
(2)	SKS3 Equivalent	Hard Chrome Plating: Plating Thickness: 3um or more	Treated Hardness: 50~55HRC	-	GFPN	GFPNL
(3)	SKS3 Equivalent	-	-	-	BFPN	BFPNL
(4)	SUS304*	-	-	SJP	SFPN	SFPNL
(5)	SUS304	Hard Chrome Plating: Plating Thickness: 3um or more	Plating Hardness: 750HV~	-	HFPN	HFPNL
(6)	SUS440C Equivalent	-	Treated Hardness: 50~55HRC	CJP	CFPN	CFPNL

* For P Selectable Type, it is SUS304 equivalent.

(Round) (Diamond)



Polished, centering hole is sometimes not available for SUS304.
SUS440C Equivalent has an identification groove at any position on D part.
When L<Pitchx2, the incomplete threaded portion (Pitch x 2) is included in ML.
Coarse Thread Pitch Dims. P.2360

RoHS 10

P Selectable

Part Number		P		L	B	ML	M (Coarse)	*Tightening Torque N·cm	m	(W)
Type	Shape	D	D dim. Tolerance g6							
JPN SJP CJP	BB (Round)	3	-0.002 -0.008	3.5	4	4.5	5	6	2	1.5
		4	-0.004 -0.012	4.5	5	6	7	8	3	2.2
		5	-0.004 -0.012	5	6	7	8	9	4	3.5
		6	-0.005 -0.014	6	7	8	9	10	5	4
		8	-0.005 -0.014	8	9	10	11	12	6	5
		10	-0.005 -0.014	10	11	12	13	14	7	6

P, L, B Configurable

Part Number		P		L	B	ML	M (Coarse)	*Tightening Torque N·cm	m	(W)
Type	Shape	D	D dim. Tolerance g6	0.01mm Increment	1mm Increment	0.1mm Increment				
FPN GFPN BFPN SFPN HFPN CFPN	A (Round) D (Diamond)	3	-0.002 -0.008	3.50~8.00	2~6	1.0~10.0	4.5	3	147	2
		4	-0.004 -0.012	4.50~8.00	2~8	1.0~10.0	6	4	333	3
		5	-0.004 -0.012	5.50~8.00	3~10	1.0~15.0(10.0)	7.5	5	676	4
		6	-0.004 -0.012	6.50~10.00	3~10	1.0~15.0	9	6	1156	5
		8	-0.005 -0.014	8.50~15.00	5~10	1.0~30.0(15.0)	12	8	2803	6
		10	-0.005 -0.014	11.00~17.00	5~15	3.0~30.0(25.0)	15	10	5557	7
		12	-0.006 -0.017	13.00~20.00(18.00)	5(8)~15	3.0~30.0(25.0)	18	12	9702	8
		16	-0.007 -0.020	17.00~27.00	5(8)~20	5.0~30.0	24	16	24108	9
		20	-0.007 -0.020	22.00~30.00	5(10)~20	5.0~30.0	30	20	46942	10

⚠ P, L, B dimensions in () are applicable to Diamond Shape.

■ **P, L, B, ML Configurable** Thread length (ML) is configurable within the range between Mx1 and Mx3 (max.).

Part Number		P		L	B	ML	M (Coarse)	*Tightening Torque N·cm	m	(W)
Type	Shape	D	D dim. Tolerance g6	0.01mm Increment	1mm Increment	0.1mm Increment				
FPNL GFPNL SFPNL HFPNL CFPNL	A (Round) D (Diamond)	3	-0.002 -0.008	3.50~6.00	2~6	1.0~10.0	3~9	3	147	2
		4	-0.004 -0.012	4.50~7.00	2~8	1.0~10.0	4~12	4	333	3
		5	-0.004 -0.012	5.50~8.00	3~10	1.0~10.0	5~15	5	676	4
		6	-0.004 -0.012	6.50~10.00	3~10	1.0~12.0	6~18	6	1156	5
		8	-0.005 -0.014	9.00~13.00	5~10	1.0~15.0	8~24	8	2803	6
		10	-0.005 -0.014	11.00~15.00	5~15	3.0~20.0	10~30	10	5557	7
		12	-0.006 -0.017	13.00~18.00	8~15	3.0~20.0	12~30	12	9702	8
		16	-0.007 -0.020	17.00~25.00	8~20	5.0~20.0	16~40	16	24108	9
		20	-0.007 -0.020	22.00~30.00	10~20	5.0~20.0	20~40	20	46942	10

* Tightening torque (reference) is of Tightening Torque Strength Class (10.9) indicated on Technical Data P.2365. Not applicable when using locking materials or lock washers.

⚠ For products uncovered by e-Catalog Standard, see P.131.



Ordering Example
Part Number
Type Shape D - P - L - B - ML
JPN BB 3 - 5
FPN A 5 - P6.00 - L5 - B4.0
FPNL A 8 - P9.51 - L8 - B4.0 - ML8

P Selectable

Unit Price		Round Shape	
D	(1)Treated SKS3 JPNBB	(4)SUS304 SJPBB	(6)SUS440C CJPBB
3			
4			
5			
6			
8			
10			

P, L, B Configurable

D	Unit Price											
	Round Shape						Diamond Shape					
	(1)Treated SKS3 FPNA	(2)Hard SKS3 GFPNA	(3)SKS3 BFPNA	(4)SUS304 SFPNA	(5)Hard SUS304 HFPNA	(6)SUS440C CFPNA	(1)Treated SKS3 FPND	(2)Hard SKS3 GFPND	(3)SKS3 BFPND	(4)SUS304 SFPND	(5)Hard SUS304 HFPND	(6)SUS440C CFPND
3												
4												
5												
6												
8												
10												
12												
16												
20												

■ **P, L, B, ML Configurable** (Unit price in the table is applicable when Mx1≤ML<Mx1.5. For price calculation, refer to the table on the right.)

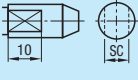
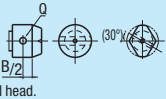
D	Unit Price							
	Round Shape				Diamond Shape			
	(1)Treated SKS3 FPNLA	(2)Hard SKS3 GFPNLA	(4)SUS304 SFPNLA	(6)SUS440C CFPNLA	(1)Treated SKS3 FPNLD	(2)Hard SKS3 GFPNLD	(4)SUS304 SFPNLD	(6)SUS440C CFPNLD
3								
4								
5								
6								
8								
10								
12								
16								
20								

⚠ **Price of P, L, B, ML Configurable Type**
Price is determined by length of ML.

ML	Unit Price (Round off 1s JPY digit)
Mx1 ≤ML<Mx1.5	
Mx1.5≤ML<Mx2	
Mx2 ≤ML<Mx2.5	
Mx2.5≤ML≤Mx3	



Alterations
Part Number - P - L - B - (SC, LAC)
FPNA10 - P11.01 - L12 - B6.4 - LAC
⚠ Not applicable to P Selectable Type.

Alterations	Wrench Flats	Wrench Hole Machining
Code	SC	LAC
Spec.	SC = 1mm Increment ⚠ P-3≤SC≤P-1, SC≥D ⚠ When B≤11, adds wrench flats on the tip. 	Machines wrench holes. Ordering Code LAC ⚠ Applicable when D≥6 ⚠ Diamond Shape Hole is drilled on the diamond head vertically but with arbitrary orientation of its diamond surfaces against those of the diamond head. 

D	B Applicable Dimension	Wrench Hole Dimensions
6		P 0
8		6.50~9.99 2
10	5.0~	10.00~16.99 3.5
12		17.00~ 5
16		
20		