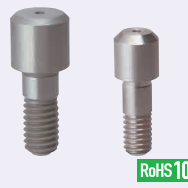


Locating Pins - Large Flat Head Threaded

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

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

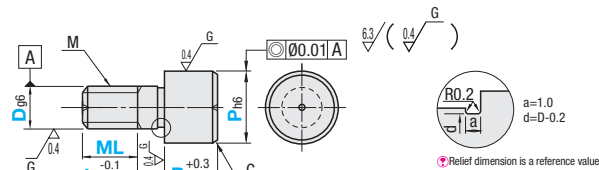


Material No.	Material	Surface Treatment	Hardness	Type		
				P Selectable	P, L, B Configurable	P, L, B, ML Configurable
(1)	SKS3 Equivalent	-	Treated Hardness: 60~63HRC	JPFNB	FPFNA	FPFNLA
(2)	SKS3 Equivalent	Hard Chrome Plating Plating Thickness: 3µm or more	Treated Hardness: 50~55HRC Plating Hardness: 750HV -	-	GFPFNA	GFPFNLA
(3)	SKS3 Equivalent	-	-	-	BFPFNA	-
(4)	SUS304*	-	-	SJPFNB	SFPFNA	SFPFNLA
(6)	SUS440C Equivalent	-	Treated Hardness: 50~55HRC	CJPFNB	CFPFNA	CFPFNLA

* For P Selectable Type, it is SUS304 equivalent.

P	h6
3.50-6.00	0 -0.008
6.01-10.00	0 -0.009
10.01-18.00	0 -0.011
18.01-30.00	0 -0.013

- Polished, centering hole is sometimes not available for SUS304.
- SUS440C Equivalent has an identification groove at any position on D part.



■P Selectable

Part Number			P Selection					L	B	C	M (Coarse)	* Tightening Torque N·cm	ML	
Type	D	D dim. Tolerance g6												
JPFNB SJPFNB CJPFNB	3	-0.002 -0.003	4	5	6				2	3	0.5	M3	147	4.5
	4	-0.004 -0.012	5			6	8			4	1	M4	333	6
	5		6		8	9	3	M5	676			7.5		
	6		8			9		10	M6	1156		9		
	8	-0.005 -0.014				9	10	12	13	5	6	1.5	M8	2803

■P, L, B Configurable

Part Number			P	L	B	C	M (Coarse)	* Tightening Torque N·cm	ML
Type	D	D dim. Tolerance g6	0.01mm Increment	1mm Increment	0.1mm Increment				
FPFNA GFPFNA BFPFNA SFPFNA CFPFNA	3	-0.002 -0.008	3.50~8.00	2~6	3.0~10.0	0.5	M3	147	4.5
	4	-0.004 -0.012	4.50~8.00	2~8	4.0~10.0	1	M4	333	6
	5		5.50~8.00	3~10	4.0~15.0		M5	676	7.5
	6		6.50~10.00	3~10	4.0~15.0		M6	1156	9
	8	-0.005 -0.014	8.50~15.00	5~10	5.0~30.0	1.5	M8	2803	12
	10	-0.006 -0.017	11.00~17.00	5~15	6.0~30.0	2	M10	5557	15
	12		13.00~20.00	5~15	6.0~30.0		M12	9702	18
	16		17.00~27.00	5~20	7.0~30.0		M16	24108	24
	20	-0.007 -0.020	22.00~30.00	5~20	10.0~30.0	3	M20	46942	30

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

Part Number			P	L	B	ML	C	M (Coarse)	*Tightening Torque N·cm
Type	D	D dim. Tolerance g6	0.01mm Increment	1mm Increment	0.1mm Increment	1mm Increment			
FPFNLA GFPFNLA SFPFNLA CFPFNLA	3	-0.002 -0.008	3.50~6.00	2~6	3.0~10.0	3~9	0.5	M3	147
	4	-0.004 -0.012	4.50~7.00	2~8	4.0~10.0	4~12	1	M4	333
	5		5.50~8.00	3~10	4.0~10.0	5~15		M5	676
	6		6.50~10.00	3~10	4.0~12.0	6~18		M6	1156
	8	-0.005 -0.014	9.00~13.00	5~10	5.0~15.0	8~24	1.5	M8	2803
	10		11.00~15.00	5~15	6.0~20.0	10~30	2	M10	5571
	12	-0.006	13.00~16.00	8~15	6.0~20.0	12~30		M12	9702
	16	-0.017	17.00~25.00	8~20	7.0~20.0	16~40		3	M16
	20	-0.027	22.00~30.00	10~20	10.0~20.0	20~40	M20		46942

* Tightening torque (reference) is of Tightening Torque Strength Class (10.9) indicated on Technical Data P2365. Not applicable when using locking materials or lock washers.



Ordering Example

Part Number	P	L	B	ML
JPFNB3	5			
FPFNA5	P7.80	L8	B4.0	
FPFNLA8	P10.00	L5	B5.0	ML8

☒ P Selectable

D	Unit Price		
	(1)Treated SKS3 JPFNB	(4)SUS304 SJPFNB	(6)SUS440C CJPFB
3			
4			
5			
6			
8			

■P, L, B Configurable

D	Unit Price				
	(1)Treated SKS3 FPFNA	(2)Hard SKS3 GFPFNA	(3)SKS3 BFPFNA	(4)SUS304 SFPFNA	(6)SUS440C CFPFNA
3					
4					
5					
6					
8					
10					
12					
16					
20					

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

D	Unit Price			
	(1)Treated SKS3 PFNFNA	(2)Hard SKS3 GPFNFNA	(4)SUS304 SFPNFNA	(6)SUS440C CFPFNFNA
3				
4				
5				
6				
8				
10				
12				
16				
20				

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

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



Alterations



Part Number - P - L - B - ML - (RC, CN, RAC, LAC)
 PPFNA10 - P12.00 - L5 - B9.0 - LAC

Alterations	Sphere Tip	C Chamfered Size	Hex Socket Machining		Wrench Hole Machining																																																										
Code	RC	CN	RAC		LAC																																																										
Spec.	Changes the relief to R0.5. <u>Ordering Code</u> RC ✔ Applicable when P-D≥2 ✗ Combination with RAC or LAC is not available.	Changes C Chamfering at P dimension part to 0.5 or less.	Machines hex sockets. <u>Ordering Code</u> RAC <table><tr><th rowspan="2">D</th><th rowspan="2">Applicable Dim.</th><th colspan="2">Hex Hole Dimensions</th></tr><tr><th>E</th><th>S</th></tr><tr><td>6</td><td>8.0~</td><td>2</td><td>3</td></tr><tr><td>8</td><td>12.5~</td><td>2.5</td><td>4</td></tr><tr><td>10</td><td>13.0~</td><td>3</td><td>5</td></tr><tr><td>12</td><td>16.0~</td><td>4</td><td>6</td></tr><tr><td>16</td><td>20.0~</td><td rowspan="2">5</td><td rowspan="2">8</td></tr><tr><td>20</td><td>20.0~</td></tr></table> ✔ Applicable when D≥6 ✔ Applicable to P, L, B Dimension Configurable Type only. ✗ Combination with RC or LAC is not available.		D	Applicable Dim.	Hex Hole Dimensions		E	S	6	8.0~	2	3	8	12.5~	2.5	4	10	13.0~	3	5	12	16.0~	4	6	16	20.0~	5	8	20	20.0~	Machines wrench holes. <u>Ordering Code</u> LAC <table><tr><th rowspan="2">D</th><th rowspan="2">Applicable Dim.</th><th colspan="2">Wrench Hole Dimensions</th></tr><tr><th>P</th><th>Q</th></tr><tr><td>6</td><td>8.0~</td><td>6.50~9.99</td><td>2</td></tr><tr><td>8</td><td>9.0~</td><td>10.00~16.99</td><td>3.5</td></tr><tr><td>10</td><td>9.0~</td><td>17.00~</td><td>5</td></tr><tr><td>12</td><td>9.0~</td><td></td><td></td></tr><tr><td>16</td><td>15.0~</td><td></td><td></td></tr><tr><td>20</td><td>15.0~</td><td></td><td></td></tr></table> ✔ Applicable when D≥6 ✔ Applicable to P, L, B Dimension Configurable Type only. ✗ Combination with RC or RAC is not available.	D	Applicable Dim.	Wrench Hole Dimensions		P	Q	6	8.0~	6.50~9.99	2	8	9.0~	10.00~16.99	3.5	10	9.0~	17.00~	5	12	9.0~			16	15.0~			20	15.0~		
	D	Applicable Dim.	Hex Hole Dimensions																																																												
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