

Locating Pins - Sphere Large Head

Tapped

■ **Features:** Sphere Large Head with the shape designed to be mounted from back using bolts. Improved maintainability compared to Press Fit Type.

Material No. | Material | Surface Treatment | Hardness | P Selectable Type | Shape Code | P, L, B Configurable Type | Shape Code

(1)	SKS3 Equivalent	-	Treated Hardness: 60~63HRC	JPQT	BB (Round)	FPQT	A (Round) D (Diamond)
(2)	SKS3 Equivalent	Hard Chrome Plating	Treated Hardness: 50~55HRC	-		GFPQT	
(3)	SUS304*	-	-	SJPQT		SFPQT	
(4)	SUS304	Hard Chrome Plating	-	-		HFPQT	
(5)	SUS440C Equivalent	-	Treated Hardness: 50~55HRC	CJPQT		CFPQT	
(6)	SKS3 Equivalent	Buffing	Treated Hardness: 60~63HRC	-		MFPQT	
(7)	SKS3 Equivalent	Hard Chrome Plating + Buffing	Treated Hardness: 50~55HRC	-		MGFPQT	
(8)	SUS440C Equivalent	Buffing	Treated Hardness: 50~55HRC	-		MCFPQT	

* For P Selectable Type, it is SUS304 equivalent.
* Hard Chrome Plating: Plating Thickness 3μm or more, Plating Hardness: 750HV ~

⚡ Buffed at part only. (Except Diamond Cut Surface)

The boundary between Sphere part and B dimension is indistinct.

(Round) (Diamond)

⚡ Polished, centering hole is sometimes not available for SUS304.
⚡ SUS440C Equivalent has an identification groove at any position on D part.
⚡ The spherical head may be polished.

P Selectable														
Part Number					P Selection					L	B	M (Coarse)	* Tightening Torque N·cm	ℓ
Type		D	D dim. Tolerance g6											
JPQT SJPQT CJPQT	BB (Round)	6	-0.004 -0.012	7 8 9 10					10	8	M3	147	5	
		8	-0.005 -0.014	9 10 11 12 13					15		M5	676	8	
		10		11 12 13 15										
		12	-0.006 -0.017	15 16					22	10				M8
		16		18 19 20 24 25										

P, L, B Configurable		Part Number		D		D dim. Tolerance g6		P	L	B	M	* Tightening Torque N·cm	ℓ	(W)
Type				D				0.01mm Increment	1mm Increment	0.1mm Increment	(Coarse)			
FPQT GFPQT SFPQT HFPQT CFPQT (Buff Finished) MFPQT MGFPQT MCFPQT	A (Round) D (Diamond)	5		5		-0.004 -0.012		5.50~8.00	5(9)~10	1.5~15.0(12.0)	M2	-	3	2.2
		6		6		-0.004 -0.012		6.50~10.00	6(9)~12	1.5~15.0(12.0)	M3	147	5	3
		6T		6T		-0.004 -0.012		6.50~10.00	6(9)~12	1.5~15.0(12.0)	M2.6	-	4	
		8		8		-0.005 -0.014		8.50~15.00	8(12)~16	1.5~30.0(15.0)	M5	676	8	3.5
		8T		8T		-0.005 -0.014		8.50~15.00	8(12)~16	1.5~30.0(15.0)	M4	333	6	
		10		10		-0.005 -0.014		11.00~17.00	10(12)~20	3.0~30.0(20.0)	M5	676	8	4
		10T		10T		-0.005 -0.014		11.00~17.00	10(12)~20	3.0~30.0(20.0)	M4	333	6	
		12		12		-0.006 -0.017		13.00~18.00	12~24	3.0~30.0(20.0)	M5	676	8	5
		12T		12T		-0.006 -0.017		13.00~18.00	12~24	3.0~30.0(20.0)	M4	333	6	
		13		13		-0.006 -0.017		14.00~20.00	13(14)~26	5.0~30.0(20.0)	M8	2803	10	5.5
		13T		13T		-0.006 -0.017		14.00~20.00	13(14)~26	5.0~30.0(20.0)	M6	1156	9	
		16		16		-0.006 -0.017		17.00~27.00	16~32	5.0~30.0(27.0)	M8	2803	12	7
		16T		16T		-0.006 -0.017		17.00~27.00	16~32	5.0~30.0(27.0)	M6	1156	9	
		20		20		-0.007 -0.020		22.00~30.00	20~40	5.0~30.0	M8	2803	12	9
		20T		20T		-0.007 -0.020		22.00~30.00	20~40	5.0~30.0	M6	1156	9	

⚡ Pins of D dimension with T have one size smaller thread diameter and larger wall thickness. (Actual D dimension is the number without "T".)
⚡ L, B dimensions in () are applicable to Diamond Shape. ⚡ Please confirm pilot hole depth on P.1618. Holes may go through.
⚡ Note the strength of under-head part. P.1618
* 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 - P - L - B

JPQTBB6 - 9

MFPQTA6 - P10.00 - L10 - B5.0

P Selectable		Unit Price Round Shape	
D		(1) Treated SKS3 JPQTBB	(3) SUS304 SJPQTBB
6			
8			
10			
12			
16			

P, L, B Configurable																	
D	Unit Price Round Shape								Unit Price Diamond Shape								
	(1)Treated SKS3 FPQTA	(2)Hard SKS3 GFPQTA	(3)SUS304 SFPQTA	(4)Hard SUS304 HFPQTA	(5)SUS440C CFPQTA	(6)Treated SKS3 + Buffer MFPQTA	(7)Hard SKS3 + Buffer MGFPQTA	(8)SUS440C + Buffer MCFPQTA	(1)Treated SKS3 FPQTD	(2)Hard SKS3 GFPQTD	(3)SUS304 SFPQTD	(4)Hard SUS304 HFPQTD	(5)SUS440C CFPQTD	(6)Treated SKS3 + Buffer MFPQTD	(7)Hard SKS3 + Buffer MGFPQTD	(8)SUS440C + Buffer MCFPQTD	
5													-				
6																	
6T																	
8																	
8T																	
10																	
10T																	
12																	
12T																	
13																	
13T																	
16																	
16T																	
20																	
20T																	

Alterations

Part Number - P - L - B - (RC, LAC, SC)

FPQTA6 - P10.00 - L10 - B5 - RC

⊗ Alterations are not available for P Selectable Type. ⊗ Combination with RC, LAC or SC is not available.

Alteration	Sphere Tip	Wrench Hole Machining	Wrench Flats
Code	RC	LAC	SC
Spec.	Changes the relief to R0.5. (Ordering Code) RC ⚡ Applicable when P-D≥2	Machines wrench holes. (Ordering Code) LAC ⚡ Diamond Shape Hole is drilled on the diamond head vertically but with arbitrary orientation of their diamond surfaces against those of the diamond head. ⚡ Applicable when Q+1.5≤B.	SC = 1mm Increment ⚡ P-3≤SC≤P-1, SC≥D ⚡ When B≤11, adds wrench flats on the tip.