

# Locating Pins - Sphere Small Head

Tapped

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

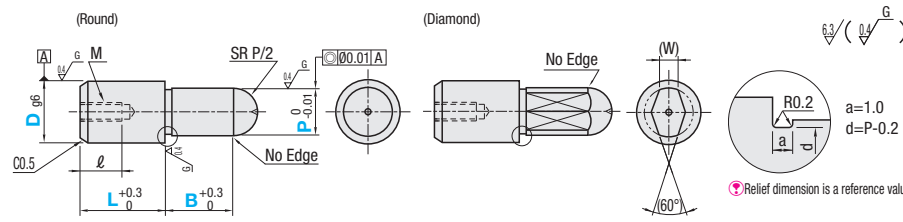
**Features:** Sphere Small Head with the shape designed to be mounted from back using bolts. Improved maintainability compared to Press Fit Type.



RoHS 10

Material No.	Material	Surface Treatment	Hardness	P Selectable		P, L, B Configurable	
				Type	Shape Code	Type	Shape Code
(1)	SKS3 Equivalent	-	Treated Hardness: 60~63HRC	JPQS	TB (Round)	FPQS	TA (Round) TD (Diamond)
(2)	SKS3 Equivalent	Hard Chrome Plating Plating Thickness: 3µm or more	Treated Hardness: 50~55HRC Plating Hardness: 750HV~	-		GFPQS	
(3)	SUS304*	-	-	-		SFPQS	
(4)	SUS440C Equivalent	-	Treated Hardness: 50~55HRC	-		CFPQS	

\* For P Selectable Type, it is SUS304 equivalent.



- Polished, centering hole is sometimes not available for SUS304.
- SUS440C Equivalent has an identification groove at any position on D part.
- When the P dimension is small, a centering hole will cause the sphere section to become small.
- When D=P, relief is also applied.
- The spherical head may be polished.
- Locating Pins for Height Adjusting with shorter B fixed dimension is also available. P.1669

## P Selectable

Part Number		D	D dim. Tolerance g6	P Selection		L	B	M (Coarse)	*Tightening Torque N·cm	ℓ
JPQS	TB (Round)	6	-0.004 -0.012	4	5	10	5	M3	147	5
		8	-0.005 -0.014	6	7	15	6	M5	676	8
		10	-0.006 -0.017	7	8		8			
		13		8	10					
		16		10						

## P, L, B Configurable

Part Number		D	D dim. Tolerance g6	P	L	B	M (Coarse)	*Tightening Torque N·cm	ℓ	(W)
FPQS GFPQS SFPQS CFPQS	TA (Round) TD (Diamond)	5	-0.004 -0.012	3.00~5.00	8~10	2.0~15.0(10.0)	M2	-	3	1.2
		6		4.00~6.00	8(9)~17	2.0~15.0	M2.6	-	4	1.5
		6T								
		8	-0.005 -0.014	6.00~8.00	11(12)~21	2.0~30.0(15.0)	M5	676	8	1.8
		8T								
		10								
		10	-0.005 -0.014	7.00~10.00	11(12)~23	3.0~30.0(25.0)	M5	676	8	2.2
		10T								
		12								
		12	-0.006 -0.017	7.00~12.00	12~24	5.0~30.0(25.0)	M5	676	8	2.5
		12T								
		13								
		13	-0.006 -0.017	8.00~13.00	13(14)~26	5.0~30.0(25.0)	M8	2803	10	3
		13T								
		16								
		16	-0.007 -0.020	10.00~16.00	10(14)~24	5.0~30.0	M8	2803	12	4
		16T								
		20								
20	-0.007 -0.020	13.00~20.00	12(18)~30	5.0~30.0	M8	2803	12	5		
20T										

- 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. Note the strength of under-head part. P.1618 Please confirm pilot hole depth on P.1618. Holes may go through.
- \* 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.

Ordering Example  
 Part Number - P - L - B  
 JPQSTB6 - 4  
 FPQSTA6 - P4.00 - L10 - B5.5

## P Selectable

D	Unit Price Round Shape (1)Treated SKS3 JPQSTB
6	
8	
10	
13	
16	

## P, L, B Configurable

D	Unit Price Round Shape				Unit Price Diamond Shape			
	(1)Treated SKS3 FPQSTA	(2)Hard SKS3 GFPQSTA	(3)SUS304 SFPQSTA	(5)SUS440C Equivalent CFPQSTA	(1)Treated SKS3 FPQSTD	(2)Hard SKS3 GFPQSTD	(3)SUS304 SFPQSTD	(5)SUS440C Equivalent CFPQSTD
5								
6								
6T								
8								
8T								
10								
10T								
12								
12T								
13								
13T								
16								
16T								
20								
20T								

Alterations Part Number - P - L - B - (RC, LAC)  
 FPQSTA6 - P4.00 - L10 - B5.5 - RC

Alterations	Sphere Tip	Wrench Hole Machining																							
	RC	LAC																							
Code	RC	LAC																							
Spec.	Changes the relief to R0.5 (Ordering Code) RC Applicable when D-P≥2.	Machines wrench holes. (Ordering Code) LAC <table border="1"> <thead> <tr> <th>D</th> <th>Applicable Dimension P</th> <th>B</th> <th>Wrench Hole Dimensions</th> </tr> </thead> <tbody> <tr> <td>8 8T</td> <td>6.00~8.00</td> <td rowspan="2">5.0~</td> <td>6.00~9.99 2</td> </tr> <tr> <td>10 10T</td> <td>7.00(8.00)~10.00</td> <td>10.00~15.99 3.5</td> </tr> <tr> <td>12 12T</td> <td>7.00(8.00)~12.00</td> <td rowspan="2">10.0~</td> <td>16.00~ 5</td> </tr> <tr> <td>13 13T</td> <td>8.00~13.00</td> </tr> <tr> <td>16 16T</td> <td>10.00~16.00</td> <td></td> </tr> <tr> <td>20 20T</td> <td>13.00~20.00</td> <td></td> </tr> </tbody> </table> P dimension in ( ) is applicable to Diamond Shape. Round Shape is applicable to D≥8, and Diamond Shape is applicable to D≥10. Diamond Shape Hole is drilled on the diamond head vertically but with arbitrary orientation of its diamond surfaces against those of the diamond head. Applicable when Q+1.5≤B.	D	Applicable Dimension P	B	Wrench Hole Dimensions	8 8T	6.00~8.00	5.0~	6.00~9.99 2	10 10T	7.00(8.00)~10.00	10.00~15.99 3.5	12 12T	7.00(8.00)~12.00	10.0~	16.00~ 5	13 13T	8.00~13.00	16 16T	10.00~16.00		20 20T	13.00~20.00	
	D	Applicable Dimension P	B	Wrench Hole Dimensions																					
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12 12T	7.00(8.00)~12.00	10.0~	16.00~ 5																						
13 13T	8.00~13.00																								
16 16T	10.00~16.00																								
20 20T	13.00~20.00																								

(3) Price List for Large Qty. Order of SUS304 (301-500 pcs.)

D	Round Shape	Diamond Shape
	SFPQSTA	SFPQSTD
5		
6		
6T		
8		
8T		
10		
10T		
12		
12T		
13		
13T		
16		
16T		
20		
20T		