

# Locating Pins - Sphere Small Head

Tapped

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

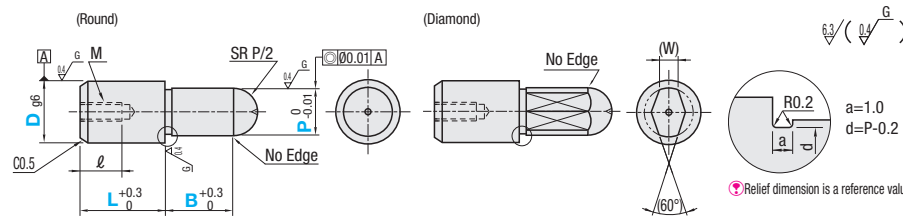
**Features:** Sphere Small Head with the shape designed to be mounted from back using bolts. Improved maintainability compared to Press Fit Type.



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	Treated Hardness: 50~55HRC Plating Hardness: 750HV~	-			
(3)	SUS304*	-	-	-			
(4)	SUS440C or 13Cr stainless	-	Treated Hardness: 50~55HRC	-			

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



- Polished, centering hole is sometimes not available for SUS304.
- SUS440C or 13Cr stainless 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	98	5
		8	-0.005 -0.014	6	7	15	6	M5	461	8
		10	-0.006 -0.017	7	8					
		13		8	10					
		16		10	10					

## P, L, B Configurable

Part Number		D	D dim. Tolerance g6	P	L	B	M (Coarse)	*Tightening Torque N-cm	ℓ	(W)
FPQS GFPPQS SFPQSS CFPQSS	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	461	8	1.8
		8T								
		10								
		10	-0.005 -0.014	7.00~10.00	11(12)~23	3.0~30.0(25.0)	M5	461	8	2.2
		10T								
		12								
		12	-0.006 -0.017	7.00~12.00	12~24	5.0~30.0(25.0)	M5	461	8	2.5
		12T								
		13								
		13	-0.006 -0.017	8.00~13.00	13(14)~26	5.0~30.0(25.0)	M8	1911	10	3
		13T								
		16								
		16	-0.007 -0.020	10.00~16.00	10(14)~24	5.0~30.0	M8	1911	12	4
		16T								
		20								
20	-0.007 -0.020	13.00~20.00	12(18)~30	5.0~30.0	M6	784	9	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.
- \* The tightening torque (ref. value) for hardened products is strength class 8.8. (See technical data on 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

(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		

## 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 GFPPQSTA	(3) SUS304 SFPQSTA	(5) SUS440C or 13Cr stainless CFPQSTA	(1) Treated SKS3 FPQSTD	(2) Hard SKS3 GFPPQSTD	(3) SUS304 SFPQSTD	(5) SUS440C or 13Cr stainless 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																																		
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 rowspan="2">D</th> <th colspan="2">Applicable Dimension</th> <th colspan="2">Wrench Hole Dimensions</th> </tr> <tr> <th>P</th> <th>B</th> <th>P</th> <th>Q</th> </tr> </thead> <tbody> <tr> <td>8 8T</td> <td>6.00~8.00</td> <td rowspan="5">5.0~</td> <td>6.00~9.99</td> <td>2</td> </tr> <tr> <td>10 10T</td> <td>7.00(8.00)~10.00</td> <td>10.00~15.99</td> <td>3.5</td> </tr> <tr> <td>12 12T</td> <td>7.00(8.00)~12.00</td> <td>16.00~</td> <td>5</td> </tr> <tr> <td>13 13T</td> <td>8.00~13.00</td> <td></td> <td></td> </tr> <tr> <td>16 16T</td> <td>10.00~16.00</td> <td></td> <td></td> </tr> <tr> <td>20 20T</td> <td>13.00~20.00</td> <td>10.0~</td> <td></td> </tr> </tbody> </table>	D	Applicable Dimension		Wrench Hole Dimensions		P	B	P	Q	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	16.00~	5	13 13T	8.00~13.00			16 16T	10.00~16.00			20 20T	13.00~20.00	10.0~	
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		<ul style="list-style-type: none"> <li>P dimension in ( ) is applicable to Diamond Shape.</li> <li>Round Shape is applicable to D≥8, and Diamond Shape is applicable to D≥10.</li> <li>Diamond Shape Hole is drilled on the diamond head vertically but with arbitrary orientation of its diamond surfaces against those of the diamond head.</li> <li>Applicable when Q+1.5≤B.</li> </ul>																																		