

# Locating Pins - Sphere Large Head

## Press Fit

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

**Features:** The Sphere Head can prevent the mating material from being scratched even when you insert by sliding horizontally against the pin end.

Material No.	Material	Surface Treatment	Hardness	P Selectable		P, L, B Configurable	
				Type	D Tolerance and Shape	Type	D Tolerance and Shape
(1)	SKS3 Equivalent	-	Treated Hardness: 60~63HRC	JPQ	<Round> B (m6) PB (p6)	FPQ	<Round> A (m6) PA (p6)
(2)	SKS3 Equivalent	Hard Chrome Plating	Treated Hardness: 50~55HRC / Plating Hardness: 750HV ~	-		GFPQ	
(3)	SUS304*	-	-	SJPQ		SFPQ	
(4)	SUS304	Hard Chrome Plating	Plating Hardness: 750HV ~	-		HFPQ	
(5)	SUS440C or 13Cr stainless	-	Treated Hardness: 50~55HRC	CJPQ		CFPQ	<Diamond> D (m6) PD (p6)
(6)	SKS3 Equivalent	Buffing	Treated Hardness: 60~63HRC	-		MFPQ	
(7)	SKS3 Equivalent	Hard Chrome Plating + Buffing	Treated Hardness: 50~55HRC / Plating Hardness: 750HV ~	-		MGFPQ	
(8)	SUS440C or 13Cr stainless	Buffing	Treated Hardness: 50~55HRC	-		MCFPQ	

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

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

The boundary between Sphere part and B dimension is indistinct.

(Round)

(Diamond)

Ⓜ The insertion guide is applicable to tolerance p6 only.  
 Ⓜ SUS440C or 13Cr stainless has an identification groove at any position on D part.  
 Ⓜ Polished, centering hole is sometimes not available for SUS304.  
 Ⓜ When the P dimension is small, a centering hole will cause the sphere section to become small.  
 Ⓜ The spherical head may be polished.

**Ordering Example**

Part Number: P - L - B

Type: JPQ, FPQ, MFPQ

D Tol.: B, A, PA

D: 4, 5, 12

P: P5.00, P15.98

L: L5, L12

B: B2.5, B5.5

**P Selectable**

D	Unit Price	Round Shape
1	JPQB, JPQPB	SJPQB, SJPQPB
2		
3		
4		
5		
6		
8		
10		

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

D	Round Shape	Diamond Shape
	SFPQA, SFPQPA	SFPQD, SFPQPD
2		
3		
4		
5		
6		
8		
10		
12		
13		
16		
20		

**P Selectable**

Type	Part Number		P Selection	L	B	C	ℓ
	D Tolerance and Shape	D Tol. m6, p6					
JPQ, SJPQ, CJPQ	<Round> B (m6), PB (p6)	1	2	3	3	0.1	0
		2	3 4	4	5	0.5	
		3	4 5 6	5			
		4	5 6 7	10	6	1	
		5	6 7 8				
		6	7 8 9 10	15	8	1.5	
		8	9 10 11 12				
		10	12 13		10	2	

**P, L, B Configurable**

Type	Part Number		P	L	B	C	ℓ	(W)
	D Tolerance and Shape	D Tol. m6, p6						
FPQ, GFPQ, SFPQ, HFPQ, CFPQ	<Round> A (m6), PA (p6)	1	1.50~3.00(2.50)	2, 3	1.5~5.0	0.1	0	-
		2	2.50~6.00(4.00)	2~6	1.5~15.0(10.0)	0.5	1.2	
		3	3.50~8.00	3~10	1.5~15.0(10.0)		1.5	
		4	4.50~8.00	3(4)~14	1.5~15.0(10.0)	1	1.8	
		5	5.50~10.00	5~15	1.5~15.0(10.0)		2.2	
		6	6.50~10.00	5~15	1.5~30.0(15.0)	1.5	3.0	
		8	8.50~15.00	5(6)~16	1.5~30.0(15.0)		3.5	
		10	11.00~17.00	5(10)~20	3.0~30.0(25.0)	2	4.0	
		12	13.00~18.00	6(10)~24	3.0~30.0(25.0)		5.0	
		13	14.00~20.00	7(12)~26	5.0~30.0(25.0)	3	5.5	
16	17.00~27.00	8(15)~32	5.0~30.0	7.0				
20	22.00~30.00	10(15)~40	5.0~30.0		9.0			

**P, L, B Configurable**

D	Unit Price Round Shape								Unit Price Diamond Shape							
	(1)Treated SKS3	(2)Hard SKS3	(3)SUS304	(4)Hard SUS304	(5)SUS440C or 13Cr stainless	(6)Treated SKS3 + Buffing	(7)Hard SKS3 + Buffing	(8)SUS440C or 13Cr stainless + Buffing	(1)Treated SKS3	(2)Hard SKS3	(3)SUS304	(4)Hard SUS304	(5)SUS440C or 13Cr stainless	(6)Treated SKS3 + Buffing	(7)Hard SKS3 + Buffing	(8)SUS440C or 13Cr stainless + Buffing
1	FPQA, FPQPA	GFPQA, GFPQPA	SFPQA, SFPQPA	HFPQA, HFPQPA	CFPQA, CFPQPA	MFPQA, MFPQPA	MGFPQA, MGFPQPA	MCFPQA, MCFPQPA	FPQD, FPQPD	GFPQD, GFPQPD	SFPQD, SFPQPD	HFPQD, HFPQPD	CFPQD, CFPQPD	MFPQD, MFPQPD	MGFPQD, MGFPQPD	MCFPQD, MCFPQPD
2																
3																
4																
5																
6																
8																
10																
12																
13																
16																
20																

**Alterations**

Part Number: P - L - B - (RC)

FPQA4 - P6.50 - L5 - B2.5 - RC

Alterations are not available for P Selectable Type.

Alteration	Spec.
Sphere Tip	Changes the relief to R0.5. Ordering Code RC. Applicable when P-D≥2

**Example**

Pins with sphere head prevent damages on mating parts.

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