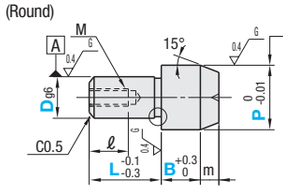
Locating Pins - Large Head, Tapered
Tapped

■**Features:** Large Head, Tapered with the shape designed to be mounted from back using bolts. Improved maintainability compared to the press fit type.

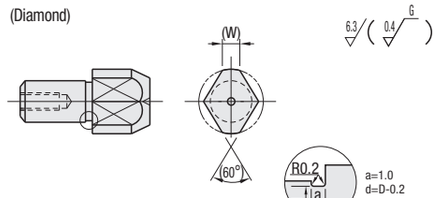
Material No.	Material	Surface Treatment	Hardness	P Selectable Type	P Selectable Shape Code	P Configurable Type	P Configurable Shape Code	P, L, B Configurable Type	P, L, B Configurable Shape Code
①	SKS3 Equivalent	-	Treated Hardness: 60 ~ 63HRC	JP	BTB (Round) DTB (Diamond)	JP	BTA (Round) BTD (Diamond)	FP	BTA (Round) BTD (Diamond)
②	SKS3 Equivalent	Hard Chrome Plating Plating Thickness: 3µm or more	Treated Hardness: 50 ~ 55HRC Plating Hardness: 750HV ~	GJP		GJP		GFP	
③	SKS3 Equivalent	-	-	-		BJP (Round only)		-	
④	SUS304*	-	-	SJP		SJP		SFP	
⑤	SUS304	Hard Chrome Plating Plating Thickness: 3µm or more	Plating Hardness: 750HV ~	HJP		-		HFP	
⑥	SUS440C Equivalent	-	Treated Hardness: 50 ~ 55HRC	CJP		CJP		CFP	

* For P Selectable Type, it is SUS304 equivalent.

(Round)



(Diamond)



RoHS

SUS440C Equivalent has an identification groove at any position on D part.

Relief dimension is a reference value.

■**P Selectable**

Part Number Type	Shape	D	D dim. Tolerance g6	P Selection	L	B	m	(W)	M (Coarse)	*Tightening Torque N·cm	ℓ
JP GJP SJP HJP CJP	BTB (Round) DTB (Diamond)	6	-0.004 -0.012	8 10	10	8	3	3	M3	147	5
		6T		8 10					M2.6	-	4
		8	-0.005 -0.014	10 12 13	15		4	3.5	M5	676	8
		8T		10 12 13					M4	333	6
		10		12 13 15		10		4	M5	676	8
		12	-0.006 -0.017	13 15 16				5			
		13		15 16	22			5.5	M8	2803	12
		16		20 25			5	7			
		20	-0.007 -0.020	25 30	30	15		9			

■**P Configurable**

Part Number Type	Shape	D	D dim. Tolerance g6	P 0.01mm Increment	L	B	m	(W)	M (Coarse)	*Tightening Torque N·cm	ℓ
JP GJP BJP SJP CJP	BTA (Round) BTD (Diamond)	5	-0.004 -0.012	5.50~8.00	10	6	3	2.2	M2	-	3
		6		6.50~10.00		8		3	M3	147	5
		6T		6.50~10.00					M2.6	-	4
		8	-0.005 -0.014	9.00~13.00	15		4	3.5	M5	676	8
		8T		9.00~13.00					M4	333	6
		10		11.00~15.00		10		4	M5	676	8
		12	-0.006 -0.017	13.00~16.00				5			
		13		14.00~18.00	22			5.5	M8	2803	12
		16		17.00~25.00			5	7			
		20	-0.007 -0.020	22.00~30.00	30	15		9			

■**P, L, B Configurable**

Part Number Type	Shape	D	D dim. Tolerance g6	P 0.01mm Increment	L 1mm Increment	B 0.1mm Increment	m	(W)	M (Coarse)	*Tightening Torque N·cm	ℓ
FP GFP SFP HFP CFP	BTA (Round) BTD (Diamond)	5	-0.004 -0.012	5.50~8.00	5(9)~10	2.0~12.0	3	2.2	M2	-	3
		6		6.50~10.00	6(9)~12			3	M3	147	5
		6T							M2.6	-	4
		8	-0.005 -0.014	9.00~13.00	8(12)~16	2.0~15.0	4	3.5	M5	676	8
		8T			6(12)~16				M4	333	6
		10		11.00~15.00	10(12)~20	3.0~20.0		4	M5	676	8
		10T			6(12)~16				M4	333	6
		12	-0.006 -0.017	13.00~16.00	12~24	3.0~20.0		5	M5	676	8
		12T			8(12)~18				M4	333	6
		13		14.00~18.00	13(14)~26	5.0~20.0		5.5	M8	2803	10
		13T			8(14)~20				M6	1156	9
		16		17.00~25.00	16~32	5.0~20.0	5	7	M8	2803	12
		16T			10(14)~24				M6	1156	9
		20	-0.007 -0.020	22.00~30.00	20~40	5.0~20.0		9	M8	2803	12
		20T			12(18)~30				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 dimension in ( ) is applicable to Diamond Shape. Note the strength of under-head part. P.1566 Please confirm pilot hole depth on P.1566. Holes may go through.
* Tightening torque (reference) will be within Strength Class of Tightening Torque on Technical Data P. 2297 (10.9). Not applicable when using locking materials or lock washers.

Ordering Example

Part Number	Type	Shape	D	-	P	-	L	-	B
	JP	BTB	6	-	8				
	JP	BTA	10	-	12.10				
	FP	BTA	10	-	P11.01	-	L12	-	B6.4

■**P Selectable**

D	Unit Price Round Shape ①SKS3 Hardened JPBTB	②Hard SKS3 GJPBTB	④SUS304 SJPBTB	⑤Hard SUS304 HJPBTB	⑥SUS440C CJPBTB	Unit Price Diamond Shape ①SKS3 Hardened JPDTB	②Hard SKS3 GJPDTB	④SUS304 SJPDTB	⑤Hard SUS304 HJPDTB	⑥SUS440C CJPDTB
6										
6T										
8										
8T										
10										
12										
13										
16										
20										

■**P Configurable**

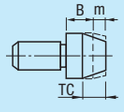
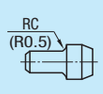
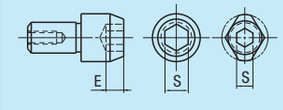
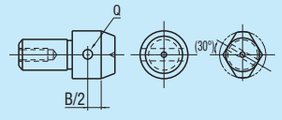
D	Unit Price Round Shape ①SKS3 Hardened JPBTA	②Hard SKS3 GJPBTA	③SKS3 BJPBTA	④SUS304 SJPBTA	⑥SUS440C CJPBTA	Unit Price Diamond Shape ①SKS3 Hardened JPBTD	②Hard SKS3 GJPBTD	③SKS3 BJPBTD	④SUS304 SJPBTD	⑥SUS440C CJPBTD
5							-	-		
6								-		
6T								-		
8								-		
8T								-		
10								-		
12								-		
13								-		
16								-		
20								-		

■**P, L, B Configurable**

D	Unit Price Round Shape ①SKS3 Hardened FPBTA	②Hard SKS3 GFPBTA	④SUS304 SFPBTA	⑤Hard SUS304 HFPBTA	⑥SUS440C CFPBTA	Unit Price Diamond Shape ①SKS3 Hardened FPBTD	②Hard SKS3 GFPBTD	④SUS304 SFPBTD	⑤Hard SUS304 HFPBTD	⑥SUS440C CFPBTD
5										
6										
6T										
8										
8T										
10										
10T										
12										
12T										
13										
13T										
16										
16T										
20										
20T										

Alterations

Part Number	-	P	-	L	-	B	- (TC, RC, RAC, LAC)
FPBTA10	-	P11.01	-	L12	-	B6.4	- TC6

Alterations	Length of Tapered Point	Sphere Tip	Hex Socket Machining	Wrench Hole Machining
				
Code	TC	RC	RAC	LAC
Spec.	Changes the m dimension. Ordering Code TC8 (1mm increment) D: 5 6 8 10 / TC: 4~13 4~13 5~16 5~22 D: 12 13 16 20 / TC: 5~22 5~22 6~23 B+m≥TC+2 (Straight Section min. 2mm) P/2-TC X tan15°(=0.27) > 0.5 (Tip Ø1.0min.) B dimension changes when TC is specified. (Changed B dimension = B+m-TC) Not applicable to P Selectable Type. Combination with RAC and LAC is not available.	Changes the relief to R0.5. Ordering Code RC Applicable when P-D≥2 Not applicable to P Selectable Type. Combination with RAC and LAC is not available.	Machines hex sockets. Ordering Code RAC D: 5 / P: 6.00~ / L: 8~ / B: 6.0~ / E: 2 / S: 2 D: 6 6T / P: 6.50 (8.00)~ / L: 10~ / B: 6.0~ / E: 2 / S: 3 D: 8 8T / P: 9.00 (10.00)~ / L: 10~ / B: 10.0~ / E: 2.5 / S: 4 D: 10 10T / P: 11.00 (12.00)~ / L: 12~ / B: 10.0~ / E: 3 / S: 5 D: 12 12T / P: 13.00~ / L: 12~ / B: 12.0~ / E: 4 / S: 6 D: 13 13T / P: 14.00~ / L: 15~ / B: 15.0~ D: 16 16T / P: 17.00~ / L: 16~ / B: 15.0~ / E: 5 / S: 8 D: 20 20T / P: 22.00~ / L: 20~ / B: 15.0~ P dimension in ( ) is applicable to Diamond Shape. Applicable to P, L, B Dimension Configurable Type only. Combination with TC, RC, LAC is not available.	Machines wrench holes. Ordering Code LAC D: 5 / B: 5.0~ D: 6 6T / B: 5.0~ D: 8 8T / B: 5.0~ D: 10 10T / B: 5.0~ D: 12 12T / B: 5.0~ D: 13 13T / B: 5.0~ D: 16 16T / B: 10.0~ D: 20 20T / B: 10.0~ Wrench Hole Dimensions: P 5.50~9.99 / Q 2; P 10.00~16.99 / Q 3.5; P 17.00~ / Q 5 Orientation between Diamond Shape Head and Wrench Hole is arbitrary. Combination with TC, RC, RAC is not available.