

Locating Pins - Sphere Large Head

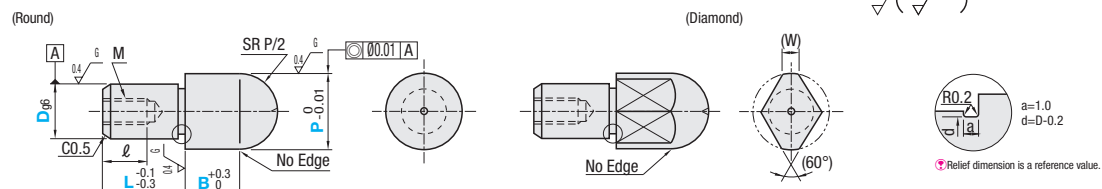
Tapped



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

Material No.	Material	Surface Treatment	Hardness	P Selectable		P Configurable		P, L, B Configurable	
				Type	Shape Code	Type	Shape Code	Type	Shape Code
①	EN 1.2510 Equiv.	-	Treated Hardness: 60 ~ 63HRC	JPQT	-	JPQT	-	FPQT	-
②	EN 1.2510 Equiv.	Hard Chrome Plating	Treated Hardness: 50 ~ 55HRC Plating Hardness: 750HV ~	-	-	GJPQT	-	GFPQT	-
③	EN 1.4301 Equiv.*	-	-	SJPQT	-	SJPQT	-	SFPQT	-
④	EN 1.4301 Equiv.	Hard Chrome Plating	Plating Hardness: 750HV ~	-	BB (Round)	-	-	HFPQT	A (Round)
⑤	EN 1.4037 Equiv.	-	Treated Hardness: 50 ~ 55HRC	CJPQT	-	CJPQT	D (Diamond)	CFPQT	D (Diamond)
⑥	EN 1.2510 Equiv.	Buffing	-	-	-	MJPQT	-	MFPQT	-
⑦	EN 1.2510 Equiv.	Hard Chrome Plating + Buffed	Treated Hardness: 50 ~ 55HRC Plating Hardness: 750HV ~	-	-	-	-	MGFPQT	-
⑧	EN 1.4037 Equiv.	Buffing	Treated Hardness: 50 ~ 55HRC	-	-	MCJPQT	-	MCFPQT	-

*For P Selectable Type, it is EN 1.4301 Equiv. equivalent.



⑤ EN 1.4037 Equiv. has an identification groove at any position on D part. ⑥ The spherical head may be polished.

■ P Selectable

Type	Part Number	Shape	D	D dim. Tolerance g6	P Selection	L	B	M (Coarse)	*Tightening Torque N·cm	ℓ
JPQT SJPQT CJPQT	BB	(Round)	6	-0.004 -0.012	7 8 9 10	10	8	M3	98	5
			8	-0.005 -0.014	9 10 11 12 13	15	10	M5	461	8
			10	-0.006 -0.017	11 12 13 15	22	10	M8	1911	12
			12	-0.006 -0.017	15 16					
			16	-0.006 -0.017	18 19 20 24 25					

■ P Configurable

Type	Part Number	Shape	D	D dim. Tolerance g6	P 0.01mm Increment	L	B	M (Coarse)	*Tightening Torque N·cm	ℓ	(W)
JPQT GJPQT SJPQT CJPQT (Buff Finished) MJPQT MCJPQT	A D	(Round) (Diamond)	5	-	5.50~8.00	10	6	M2	-	3	2.2
			6	-0.004 -0.012	6.50~10.00	8	M3	98	5	3	
			6T	-		8	M2.6	-	4	3.5	
			8	-0.005 -0.014	9.00~13.00	15	M5	461	8	4	
			8T	-0.005 -0.014		10	M4	225	6	5.5	
			10	-	11.00~15.00	22	M5	461	8	7	
			12	-0.006 -0.017	13.00~16.00	15	M8	1911	12	9	
			13	-0.006 -0.017	14.00~18.00						
			16	-0.006 -0.017	17.00~25.00						
			20	-0.007 -0.020	22.00~30.00						

■ P, L, B Configurable

Type	Part Number	Shape	D	D dim. Tolerance g6	P 0.01mm Increment	L 1mm Increment	B 0.1mm Increment	M (Coarse)	*Tightening Torque N·cm	ℓ	(W)
FPQT GFPQT SFPQT HFPQT CFPQT (Buff Finished) MFPQT MGFPQT MCFPQT	A D	(Round) (Diamond)	5	-	5.50~8.00	5(9)~10	2.0~10.0	M2	-	3	2.2
			6	-0.004 -0.012	6.50~10.00	6(9)~12	2.0~12.0	M3	98	5	3
			6T	-		8	M2.6	-	4	3.5	
			8	-0.005 -0.014	9.00~13.00	8(12)~16	2.0~15.0	M5	461	8	4
			8T	-0.005 -0.014		6(12)~16		M4	225	6	5.5
			10	-	11.00~15.00	10(12)~20	3.0~20.0	M5	461	8	7
			10T	-		6(12)~16		M4	225	6	9
			12	-0.006 -0.017	13.00~16.00	12~24	3.0~20.0	M5	461	8	9
			12T	-0.006 -0.017		8(12)~18		M4	225	6	9
			13	-0.006 -0.017	14.00~18.00	13(14)~26	5.0~20.0	M8	1911	10	5.5
			13T	-0.006 -0.017		8(14)~20		M6	784	9	7
			16	-0.006 -0.017	17.00~25.00	16~32	5.0~20.0	M8	1911	12	7
			16T	-0.006 -0.017		10(14)~24		M6	784	9	9
			20	-0.007 -0.020	22.00~30.00	20~40	5.0~20.0	M8	1911	12	9
			20T	-0.007 -0.020		12(18)~30		M6	784	9	9

① Pins of D dimension with T have one size smaller thread diameter and larger wall thickness. (Actual D dimension is the number without "T".) ② L dimension in () is applicable to Diamond Shape. ③ Please confirm pilot hole depth on P1566. Holes may go through. ④ Note the strength of under-head part. P1566 ⑤ The tightening torque (ref. value) for hardened products is strength class 8.8. (See technical data on P.2297.) Not applicable when using locking materials or lock washers.



Ordering Example
Part Number - P - L - B
JPQTA6 - 10.0
MFPQTA6 - P10.00 - L10 - B5.0

■ P Selectable

D	Unit Price Round Shape
6	① EN 1.2510 Equiv. Hardened JPQTBB ③ EN 1.4301 Equiv. SJPQTBB ⑤ EN 1.4037 Equiv. CJPQTBB
8	
10	
12	
16	

■ P Configurable

D	Unit Price Round Shape						Unit Price Diamond Shape							
	① EN 1.2510 Equiv. Hardened JPQTA	② Hard EN 1.2510 Equiv. GJPQTA	③ EN 1.4301 Equiv. SJPQTA	④ Hard EN 1.4301 Equiv. CJPQTA	⑤ EN 1.4037 Equiv. MJPQTA	⑥ EN 1.4037 Equiv. + Buffed MCJPQTA	① EN 1.2510 Equiv. Hardened FPQTD	② Hard EN 1.2510 Equiv. GFPQTD	③ EN 1.4301 Equiv. SFPQTD	④ Hard EN 1.4301 Equiv. HFPQTD	⑤ EN 1.4037 Equiv. CFPQTD	⑥ EN 1.4037 Equiv. + Buffed MFPQTD	⑦ Hard EN 1.2510 Equiv. + Buffed MGFPQTD	⑧ EN 1.4037 Equiv. + Buffed MCFPQTD
5														
6														
6T														
8														
8T														
10														
12														
13														
16														
20														

■ P, L, B Configurable

D	Unit Price Round Shape						Unit Price Diamond Shape							
	① EN 1.2510 Equiv. Hardened FPQTA	② Hard EN 1.2510 Equiv. GFPQTA	③ EN 1.4301 Equiv. SFPQTA	④ Hard EN 1.4301 Equiv. HFPQTA	⑤ EN 1.4037 Equiv. CFPQTA	⑥ EN 1.4037 Equiv. + Buffed MFPQTA	① EN 1.2510 Equiv. Hardened FPQTD	② Hard EN 1.2510 Equiv. GFPQTD	③ EN 1.4301 Equiv. SFPQTD	④ Hard EN 1.4301 Equiv. HFPQTD	⑤ EN 1.4037 Equiv. CFPQTD	⑥ EN 1.4037 Equiv. + Buffed MFPQTD	⑦ Hard EN 1.2510 Equiv. + Buffed MGFPQTD	⑧ EN 1.4037 Equiv. + Buffed MCFPQTD
5														
6														
6T														
8														
8T														
10														
10T														
12														
12T														
13														
13T														
16														
16T														
20														
20T														



Alterations Part Number - P - L - B - (RC, LAC)
FPQTA6 - P10.00 - L10 - B5 - RC
① Alterations are not available for P Selectable Type. ② Combination with RC and LAC is not available.

Alteration	Sphere Tip	Wrench Hole Machining		
	RC (R0.5)	LAC		
Code	RC	LAC		
Spec.	Changes the relief to R0.5. (Ordering Code) RC ① Applicable when P-D≥2	Machines wrench holes. (Ordering Code) LAC ① Orientation between Diamond Shape Head and Wrench Hole is arbitrary.	D	Applicable Dimension
			5	Wrench Hole Dimensions
			6 6T	P 0
			8 8T	5.50-9.99 2
			10 10T	10.00-16.99 3.5
			12 12T	17.00- 5
			13 13T	
			16 16T	
			20 20T	10.0-