


Locating Pins - Sphere Large Head Threaded

■ **Features:** Sphere Large Head, Threaded + Lock Nut Type. Improved maintainability compared to Press Fit Type.



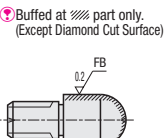
(P, L, B, ML Configurable)

RoHS 10

Material No.	Material	Surface Treatment	Hardness	Type			Shape Code	
				P Selectable	P, L, B Configurable	P, L, B, ML Configurable	P Selectable	Other than P Selectable Type
(1)	SKS3 Equivalent	-	Treated Hardness: 60~63HRC	JPQN	FPQN	FPQNL	BB (Round) A (Round) D (Diamond)	Other than P Selectable Type
(2)	SKS3 Equivalent	Hard Chrome Plating	Treated Hardness: 50~55HRC / Plating Hardness: 750HV ~	-	GFPQN	GFPQNL		
(3)	SUS304*	-	-	SJPQN	SFPQN	SFPQNL		
(4)	SUS304	Hard Chrome Plating	Plating Hardness: 750HV ~	-	HFPQN (Round only)	-		
(5)	SUS40C or 13Cr stainless	-	Treated Hardness: 50~55HRC	CJPQN	CFPQN	CFPQNL		
(6)	SKS3 Equivalent	Buffing	Treated Hardness: 60~63HRC	-	MFPQN	-		
(7)	SKS3 Equivalent	Hard Chrome Plating + Buffing	Treated Hardness: 50~55HRC / Plating Hardness: 750HV ~	-	MGFPQN	MGFPQNL		
(8)	SUS40C or 13Cr stainless	Buffing	Treated Hardness: 50~55HRC	-	MCFPQN	MCFPQNL		

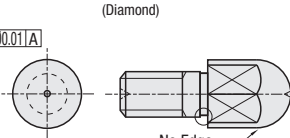
* For P Selectable Type, it is SUS304 equivalent.

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



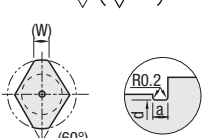
The boundary between Sphere part and B dimension is indistinct.

(Diamond)



No Edge

$\sqrt{6.3} / (\sqrt{0.4} \sqrt{G})$



⊕ Relief dimension is a reference value.

⊕ SUS40C or 13Cr stainless has an identification groove at any position on D part.

⊕ Polished, centering hole is sometimes not available for SUS304.

⊕ The spherical head may be polished.

⊕ Locating Pins for Height Adjusting with shorter B fixed dimension is also available. **P1669**

■ P Selectable

Type	Part Number		P Selection					L	B	M (Coarse)	* Tightening Torque N·cm	ML		
	D	D dim. Tolerance g6	4	5	6	7	8						9	10
JPQN SJPQN CJPQN	BB (Round)	3	-0.002 -0.008	4	5	6			2	5	M 3	98	4.5	
		4	-0.004 -0.012	5	6	7			3	6	M 4	225	6	
		5		6	7	8				M 5	461	7.5		
		6	-0.005 -0.014	7	8	9	10		5	8	M 6	784	9	
		8		9	10	11	12	13			M 8	1911	12	
		10	-0.006 -0.017	11	12	13	15		8	10	M10	3783	15	
12						15	16			M12	6605	18		

■ P, L, B Configurable

Type	Part Number		P	L	B	M (Coarse)	* Tightening Torque N·cm	ML	(W)	
	D	D dim. Tolerance g6								0.01mm Increment
FPQN GFPQN SFPQN HFPQN CFPQN (Buff Finished) MFPQN MGFPQN MCFPQN ⊕ Applicable when D≥5.	A (Round) D (Diamond)	3	-0.002 -0.008	3.50~8.00	2~6	2.0~10.0	M 3	98	4.5	1.5
		4	-0.004 -0.012	4.50~8.00	2~8	2.0~10.0	M 4	225	6	1.8
		5		5.50~8.00	3~10	2.0~15.0(10.0)	M 5	461	7.5	2.2
		6	-0.005 -0.014	6.50~10.00	3~10	2.0~15.0	M 6	784	9	3
		8		8.50~15.00	5~10	2.0~30.0(15.0)	M 8	1911	12	3.5
		10	-0.006 -0.017	13.00~20.00(18.00)	5~15	3.0~30.0(25.0)	M10	3783	15	4
		12	-0.006 -0.017	17.00~27.00	5(8)~15	5.0~30.0	M12	6605	18	5
		16	-0.007 -0.020	22.00~30.00	5(10)~20	5.0~30.0	M16	16366	24	7
20					M20	32928	30	9		

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

■ P, L, B, ML Configurable

Thread length (ML) is configurable between Mx1 ~ Mx3 (max.).

Type	Part Number		P	L	B	ML	M (Coarse)	* Tightening Torque N·cm	(W)	
	D	D dim. Tolerance g6								0.01mm Increment
FPQNL GFPQNL SFPQNL CFPQNL (Buff Finished) MGFPQNL MCFPQNL ⊕ Applicable when D≥5.	A (Round) D (Diamond)	3	-0.002 -0.008	3.50~6.00	2~6	2.0~10.0	3~9	M 3	98	1.5
		4	-0.004 -0.012	4.50~7.00	2~8	2.0~10.0	4~12	M 4	225	1.8
		5		5.50~8.00	3~10	2.0~10.0	5~15	M 5	461	2.2
		6	-0.005 -0.014	6.50~10.00	3~10	2.0~12.0	6~18	M 6	784	3
		8		9.00~13.00	5~10	2.0~15.0	8~24	M 8	1911	3.5
		10	-0.006 -0.017	11.00~15.00	5~15	3.0~20.0	10~30	M10	3783	4
		12	-0.006 -0.017	13.00~18.00	8~15	3.0~20.0	12~30	M12	6605	5
		16	-0.007 -0.02	17.00~25.00	8~20	5.0~20.0	16~40	M16	16366	7
20		22.00~30.00	10~20	5.0~20.0	20~40	M20	32928	9		

* The tightening torque (ref. value) for hardened products is strength class 8.8. (See technical data on **P2365**.) Not applicable when using locking materials or lock washers.