

Locating Pins (Spherical Small Head)

D & P Tolerance Selectable



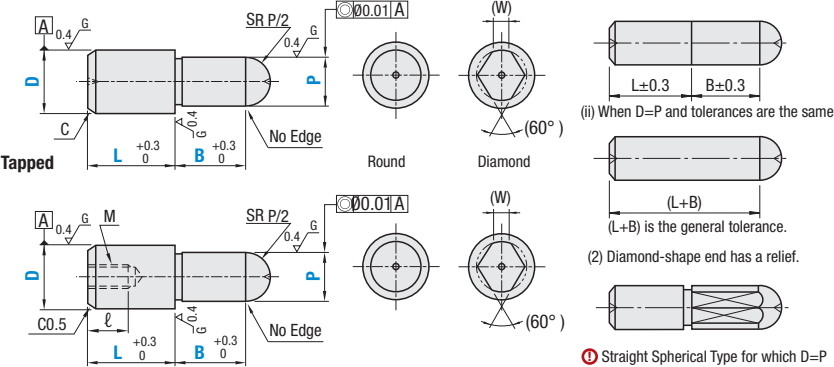
Tolerance Selection

D or P	Standard Grade				Precision Grade		
	M	P	G	H	S	A	B
1.00	+0.008	+0.012	-0.002	0	-	+	0
3.00	+0.002	+0.006	-0.008	-0.010			
3.01	+0.012	+0.020	-0.004	0			
6.00	+0.004	+0.012	-0.012	-0.012			
6.01	+0.015	+0.024	-0.005	0			
10.00	+0.006	+0.015	-0.014	-0.015	-0.01	0	-0.005
10.01	+0.018	+0.029	-0.006	0			
18.00	+0.007	+0.018	-0.017	-0.018			
18.01	+0.021	+0.035	-0.007	0			
20.00	+0.008	+0.022	-0.020	-0.021			

⊗ Precision Grade Tolerance is not available for Chrome Plated product types

Materials No.	Materials	Surface Treatment	Hardness	Type		Shape Code
				Standard	Tapped	
(1)	O1 Tool Steel Equivalent	—	60~63 HRC min.	KFQS	KFQST	A Round D Diamond
(2)	O1 Tool Steel Equivalent	Chrome Plating Plating Thickness 3 μm or More	60~63 HRC min. Plating Hardness 750 HV min.	GKFQS	GKFQST	
(3)	304 Stainless Steel Equivalent	—	—	SKFQS	SKFQST	
(5)	440C Stainless Steel Equivalent	—	50~55 HRC min.	CKFQS	—	

Standard



- ① 440C Stainless Steel has an identification groove on D part.
- ② The smaller the dimension P, the less the size of sphere, due to center hole.
- ⊗ Precision Grade Tolerance is not available for Chrome Plated product types.

- ① When D=P,
(1) Round Shape has no relief.
(i) When D=P and tolerances are different

- (ii) When D=P and tolerances are the same

- (2) Diamond-shape end has a relief.

- ① Straight Spherical Type for which D=P is standardized is available. P.1613

Standard

Part Number						P Specify in 0.01 mm Inc.	L Specify in 1 mm Inc.	B Specify in 0.1 mm Inc.	C	(W)	Available Types for Round Shape				Available Types for Diamond Shape			
Type	Shape	D Tol. Sel.	P Tol. Sel.	D							(1) O1 Tool Steel Hardened	(2) Hard O1 Tool Steel	(3) 304 Stainless Steel	(5)440C Stainless Steel	(1) O1 Tool Steel Hardened	(2) Hard O1 Tool Steel	(3) 304 Stainless Steel	(5)440C Stainless Steel
KFQS GKFQS* SKFQS CKFQS	A Round D Diamond	M P G H *A *B	S M P G H *A *B	2		1.00~2.00	2~4	2.0~10.0	0.3	—	•	•	•	•	—	—	—	—
				3		1.00~3.00	3~6	2.0~10.0	0.5	1.0	•	•	•	•	—	—	—	—
				4		2.00~4.00	4~8	2.0~10.0		1.0	•	•	•	•	—	—	•	—
				5		2.00~5.00	5~10	2.0~10.0		1.2	•	•	•	•	•	—	•	—
				6		2.00~6.00	6~12	2.0~12.0		1.5	•	•	•	•	•	—	•	—
				8		3.00~8.00	8~16	2.0~15.0	1.5	1.8	•	•	•	•	•	—	•	—
				10		3.00~10.00	10~20	3.0~20.0		2.2	•	•	•	•	•	—	•	—
				12		5.00~12.00	12~24	3.0~20.0		2	2.5	•	•	•	•	•	•	—
				13		6.00~13.00	13~26	5.0~20.0		3		•	•	•	•	•	•	—
				16		10.00~16.00	16~32	5.0~20.0		4		•	•	•	•	•	•	—
				20		13.00~20.00	20~40	5.0~20.0	3	5	•	•	•	•	•	•	•	—

⊗ Precision Grade Tolerance is not available for Chrome Plated product types.

Locating Pins (Spherical Small Head)

D & P Tolerance Selectable, continued

Tapped

Part Number					P Specify in 0.01 mm Inc.	L Specify in 1 mm Inc.	B Specify in 0.1 mm Inc.	(W)	M (Coarse)	ℓ	Available Types for Round Shape			Available Types for Diamond Shape		
Type	Shape	D Tol. Sel.	P Tol. Sel.	D							(1) O1 Tool Steel Hardened	(2) Hard O1 Tool Steel	(3) 304 Stainless Steel	(1) O1 Tool Steel Hardened	(2) Hard O1 Tool Steel	(3) 304 Stainless Steel
KFQST GKFQST SKFQST	A Round D Diamond	M P G H	S M P G H	6	4.00~6.00	8 (9)~12	2.0~12.0	1.5	M3	5	•	•	•	•	—	—
				8	6.00~8.00	11 (12)~16	2.0~15.0	1.8	M5	8	•	•	•	•	—	—
				10	7.00~10.00	11 (12)~20	3.0~20.0	2.2		8	•	•	•	•	—	—
				12	7.00~12.00	12~24	3.0~20.0	2.5		8	•	•	•	•	—	—
				13	8.00~13.00	13 (14)~26	5.0~20.0	3	M8	10	•	•	•	•	—	—
				16	10.00~16.00	16~32	5.0~20.0	4		12	•	•	•	•	—	—
				20	13.00~20.00	20~40	5.0~20.0	5		12	•	•	•	•	—	—

① L dimension in (j) is applicable to diamond shape. ② Note the strength of under-head part. P.1542 ③ Please confirm pilot hole depth on P.1542. Holes may go through.



Part Number Example

Part Number									
Type	Shape	D Tol. Sel.	P Tol. Sel.	D		P		L	B
KFQS	A	G	S	10	-	P8.00	-	L10	B8.0



Part Number Alterations

Part Number									
		P		L		B		(GDC / RC / AC)	
KFQSAGS10	-	P8.00	-	L10	-	B8.0	-	RC	

Alterations	Insertion Guide Machining	Radius	Air Vent
Code	GDC	RC	AC
Spec.	Adds Insertion Guide. Ordering Code: GDC 	Changes the relief to R0.5. Ordering Code: RC 	Adds an air vent. Ordering Code: AC
	⊗ Not applicable to D≤2	① Applicable when D-P≥2.	