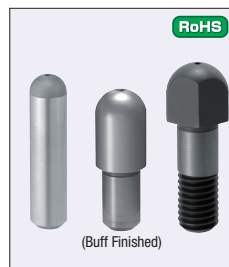


Locating Pins - Spherical Large Head

D and P Selectable Tolerance



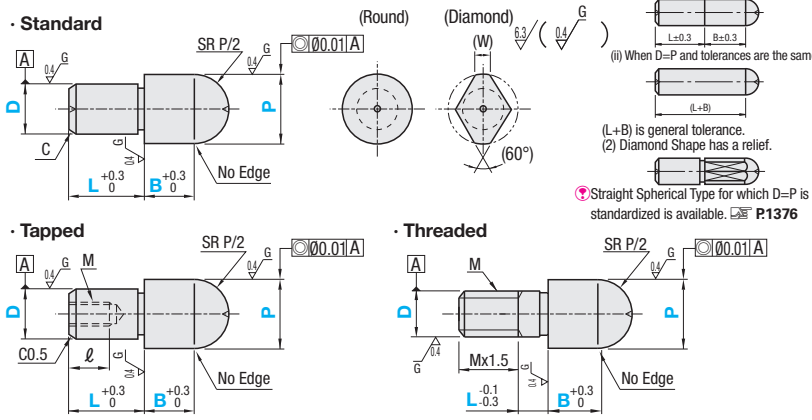
Material No.	Material	Surface Treatment	Hardness	Type			Shape Code
				Standard	Tapped	Threaded	
①	O1 Tool Steel	-	Treated Hardness: 60~63HRC	KFQ	KFQT	KFQN	A (Round)
②	O1 Tool Steel	Hard Chrome Plating	Hardness: 50~55HRC	GKFQ	GKFQT	GKFQN	
③	304 Stainless Steel	-	-	SKFQ	SKFQT	SKFQN	
④	304 Stainless Steel	Hard Chrome Plating	-	HKFQ	-	-	
⑤	440C Stainless Steel	-	Treated Hardness: 50~55HRC	CKFQ	CKFQT	CKFQN	D (Diamond)
⑦	O1 Tool Steel	Buffed Surface	Treated Hardness: 60~63HRC	MKFQ	MKFQT	MKFQN	
⑧	O1 Tool Steel	Hard Chrome Plating + Buffed	Hardness: 50~55HRC	MGKFQ	MGKFQT	MGKFQN	
⑨	440C Stainless Steel	Buffed Surface	Treated Hardness: 50~55HRC	MCKFQ	MCKFQT	MCKFQN	

Some combinations are not available. Refer to the price list to select the available combination.
 Hard Chrome Plating: Plating Thickness 3µm or more, Plating Hardness 750HV~
 When D=P, (1) Round Shape has no relief. (2) When D=P and tolerances are different

Tolerance Selection

D or P	Standard Grade				Precision Grade	
	M	P	G	H	A	B
1.00	+0.008	+0.012	-0.002	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	+0.005	0
10.00	+0.006	+0.015	-0.014	-0.015	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	-	-
30.00	+0.008	+0.022	-0.020	-0.021	-	-

Precision Type Unit Price: Standard Type Price x1.1
 Hard chrome plated and buff finished products are not available in Precision Grade Tolerance.
 440C Stainless Steel has an identification groove on D part.
 Polished, centering hole is sometimes not available for 304 Stainless Steel.
 When the P dimension is small, a centering hole will cause the spherical section to become small.



Standard

Type	Shape	D Tolerance	P Tolerance	Part Number			C	(W)	
				D	P	L			
KFQ GKFQ SKFQ HKFQ CKFQ	A (Round) D (Diamond)	M P G H A B	S M P G H A B	1	1.00~ 2.50	2, 3	2.0~ 5.0	0.1	-
				2	2.00~ 4.00	2~6	2.0~10.0	0.5	1.2
				3	3.00~ 6.00	3~6	2.0~10.0	1	1.5
				4	4.00~ 7.00	4~8	2.0~10.0	1	1.8
				5	5.00~ 8.00	5~10	2.0~10.0	1.5	2.2
				6	6.00~10.00	6~12	2.0~12.0	2	3.0
				8	8.00~13.00	8~16	2.0~15.0	2	3.5
				10	10.00~15.00	10~20	3.0~20.0	2	4.0
				12	12.00~16.00	12~24	3.0~20.0	2	5.0
				13	13.00~18.00	13~26	5.0~20.0	3	5.5
				16	16.00~25.00	16~32	5.0~20.0	3	7.0
				20	20.00~30.00	20~40	5.0~20.0	3	9.0

Hard chrome plated and buffed products are not available for * marked Precision Grade (Precision Grade A and B).

Tapped

Type	Shape	D Tolerance	P Tolerance	Part Number			(W)	M (Coarse)	l
				D	P	L			
KFQT GKFQT SKFQT CKFQT	A (Round) D (Diamond)	M P G H	S M P G H	5	5.00~8.00	5(9) ~10	2.0~10.0	2.2	M2 3
				6	6.00~10.00	6(9) ~12	2.0~12.0	3.0	M3 5
				6T	-	-	-	3.0	M2.6 4
				8	8.00~13.00	8(12)~16	2.0~15.0	3.5	M5 8
				8T	-	-	-	3.5	M4 6
				10	10.00~15.00	10(12)~20	3.0~20.0	4.0	M5 8
				10T	-	-	-	4.0	M4 6
				12	12.00~16.00	12 ~24	3.0~20.0	5.0	M5 8
				12T	-	-	-	5.0	M4 6
				13	13.00~18.00	13(14)~26	5.0~20.0	5.5	M8 10
				13T	-	-	-	5.5	M6 9
				16	16.00~25.00	16 ~32	5.0~20.0	7.0	M8 12
				16T	-	-	-	7.0	M6 9
				20	20.00~30.00	20 ~40	5.0~20.0	9.0	M8 12
				20T	-	-	-	9.0	M6 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. P1309 Please confirm pilot hole depth on P1309. Holes may go through.
 Tightening torque will be within Strength Class of 10.9 as indicated in the Technical Data (Ref. MISUMI 2011 catalog P3549). Not applicable when using locking adhesives or lock washers.

Threaded

Type	Shape	D Tolerance	P Tolerance	Part Number			(W)	M	
				D	P	L			
KFQN GKFQN SKFQN CKFQN	A (Round) D (Diamond)	M P G H A B	S M P G H A B	3	3.50~ 6.00	2~ 6	2.0~10.0	1.5	M3
				4	4.50~ 7.00	2~ 8	2.0~10.0	1.8	M4
				5	5.50~ 8.00	3~10	2.0~10.0	2.2	M5
				6	6.50~10.00	3~10	2.0~12.0	3.0	M6
				8	9.00~13.00	5~10	2.0~15.0	3.5	M8
				10	11.00~15.00	5~15	3.0~20.0	4.0	M10
				12	13.00~18.00	8~15	3.0~20.0	5.0	M12
				16	17.00~25.00	8~20	5.0~20.0	7.0	M16
				20	22.00~30.00	10~20	5.0~20.0	9.0	M20

Hard chrome plated and buffed products are not available for Precision Grade* (Precision Grade A and B).

Ordering Example: Part Number **P - L - B**
 Type Shape D Tol. P Tolerance D - P - L - B
KFQ A M S 6 - P8.00 - L8 - B6.0

Days to Ship **Configure Online**

Price **Configure Online**

Standard

D	Unit Price Round Shape						Unit Price Diamond Shape									
	① O1 Tool Steel Hardened	② O1 Tool Steel Hardened	③ 304 Stainless Steel	④ Hard 304 Stainless Steel	⑤ 440C Stainless Steel	⑦ O1 Tool Steel Hardened + Buffed	⑧ O1 Tool Steel Hardened + Buffed	④ 440C Stainless Steel + Buffed	① O1 Tool Steel Hardened	② O1 Tool Steel Hardened	③ 304 Stainless Steel	④ Hard 304 Stainless Steel	⑤ 440C Stainless Steel	⑦ O1 Tool Steel Hardened + Buffed	⑧ O1 Tool Steel Hardened + Buffed	④ 440C Stainless Steel + Buffed
1	KFQA	GKFA	SKFA	HKFA	CKFA	MKFA	MGKFA	MCKFA	KFQD	GKQD	SKQD	HKQD	CKQD	MKQD	MGKQD	MCKQD
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tapped

D	Unit Price Round Shape						Unit Price Diamond Shape									
	① O1 Tool Steel Hardened	② O1 Tool Steel Hardened	③ 304 Stainless Steel	④ 440C Stainless Steel	⑦ O1 Tool Steel Hardened + Buffed	⑧ O1 Tool Steel Hardened + Buffed	④ 440C Stainless Steel + Buffed	① O1 Tool Steel Hardened	② O1 Tool Steel Hardened	③ 304 Stainless Steel	④ 440C Stainless Steel	⑦ O1 Tool Steel Hardened + Buffed	⑧ O1 Tool Steel Hardened + Buffed	④ 440C Stainless Steel + Buffed		
5	KFQT	GKQT	SKQT	HKQT	CKQT	MKQT	MGKQT	MCKQT	KFQTD	GKQTD	SKQTD	HKQTD	CKQTD	MKQTD	MGKQTD	MCKQTD
6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Threaded

D	Unit Price Round Shape						Unit Price Diamond Shape							
	① O1 Tool Steel Hardened	② O1 Tool Steel Hardened	③ 304 Stainless Steel	④ 440C Stainless Steel	⑦ O1 Tool Steel Hardened + Buffed	⑧ O1 Tool Steel Hardened + Buffed	④ 440C Stainless Steel + Buffed	① O1 Tool Steel Hardened	② O1 Tool Steel Hardened	③ 304 Stainless Steel	④ 440C Stainless Steel	⑦ O1 Tool Steel Hardened + Buffed	⑧ O1 Tool Steel Hardened + Buffed	④ 440C Stainless Steel + Buffed
3	KFQNA	GKQNA	SKQNA	CKQNA	MKQNA	MGKQNA	MCKQNA	KFQND	GKQND	SKQND	CKQND	MKQND	MGKQND	MCKQND
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Alterations Part Number **P - L - B - (GDC, RC, AC)**
KFQAMS6 - P8.0 - L8 - B6.0 - RC

Alterations	Insertion Guide	Spherical Tip	Air Vent
Code	GDC	RC	AC
Spec.	Adds the insertion guide. (Ordering Code) GDC 	Changes the relief to R0.5. (Ordering Code) RC 	Adds an air vent. (Ordering Code) AC
Price Adder			