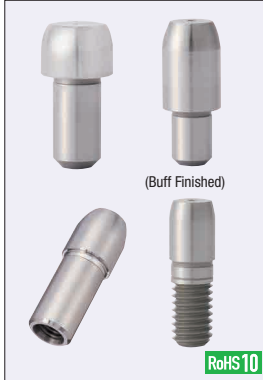


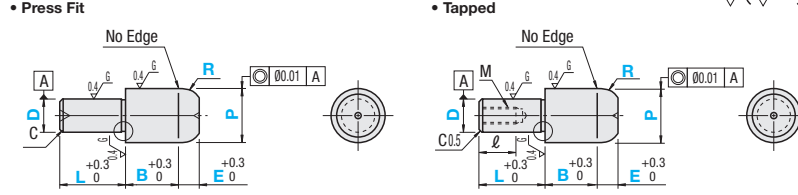
Locating Pins - Large Head, Round Tapered

D and P Tolerance, Taper R Selectable

■ **Features:** Small boundary between insertion guide and locating parts ("No Edge" in diagram) prevents damage of locating target. Buff finished products with enhanced appearance and slide are also available.



Material No.	Material	Surface Treatment	Hardness	Type		
				Press Fit	Tapped	Threaded
①	SKS3 Equivalent	-	Treated Hardness: 60 ~ 63HRC	KFPBA	KFPBT	KFPBNA
②	SKS3 Equivalent	Hard Chrome Plating	Treated Hardness: 50 ~ 55HRC Plating Hardness: 750HV	GKFPBA	GKFPBT	GKFPBNA
③	SUS304	-	-	SKFPBA	SKFPBT	SKFPBNA
④	SUS440C Equivalent	-	Treated Hardness: 50 ~ 55HRC	CKFPBA	CKFPBT	CKFPBNA
⑤	SKS3 Equivalent	Buffing	Treated Hardness: 60 ~ 63HRC	MKFPBA	MKFPBT	MKFPBNA
⑥	SKS3 Equivalent	Hard Chrome Plating + Buffed	Treated Hardness: 50 ~ 55HRC Plating Hardness: 750HV	MGKFPBA	MGKFPBT	MGKFPBNA
⑦	SUS440C Equivalent	Buffing	Treated Hardness: 50 ~ 55HRC	MCKFPBA	MCKFPBT	-



Tolerance Selection

D or P	Standard Grade				Precision Grade	
	M	P	G	H	A	B
2.00	+0.008	+0.012	-0.002	0	0	0
3.00	+0.002	+0.006	-0.008	-0.010	-	-
4.00	+0.012	+0.020	-0.004	0	-	-
5.00	+0.004	+0.012	-0.012	-0.012	-	-
6.00	+0.015	+0.024	-0.005	0	+0.005	0
8.00	+0.006	+0.015	-0.014	-0.015	-0.01	-0.005
10.00	+0.018	+0.029	-0.006	0	-	-
12.00	+0.007	+0.018	-0.017	-0.018	-	-
16.00	+0.021	+0.035	-0.007	0	-	-
20.00	+0.008	+0.022	-0.020	-0.021	-	-

⊕ The unit price of Precision Type is the price of Standard Type multiplied by 1.1.
 ⊕ Hard Chrome Plating and buff finished products are not available in Precision Grade Tolerance.
 ⊕ SUS440C Equivalent has an identification groove at any position on D part.
 ⊕ Polished, centering hole is sometimes not available for SUS304.

Press Fit

Part Number	D Tolerance		D	P	L	B	E	R	C
	Type	D							
KFPBA GKFPBA* SKFPBA CKFPBA (Buff Finished) MKFPBA* MGKFPBA* MCKFPBA*	M P G H A B	S M P G H A B	2	2.00-4.00	4-10	2.0-10.0	1.0-20.0	5	0.5
			3	3.00-6.00	5-12	2.0-10.0		10	
			4	4.00-7.00	5-12	2.0-10.0		15	
			5	5.00-8.00	5-12	2.0-10.0		20	
			6	6.00-10.00	5-12	3.0-12.0		25	
			8	8.00-13.00	8-15	3.0-14.0		30	
			10	10.00-15.00	8-15	3.0-16.0		35	
			12	12.00-16.00	10-18	3.0-18.0		40	
			13	13.00-18.00	12-20	3.0-20.0		-	
			16	16.00-25.00	14-25	3.0-20.0		-	
20	20.00-30.00	18-32	3.0-20.0	-					

⊕ Applicable when D ≥ 5.
 ⊕ Hard Chrome Plating and buffed products are not available for * marked Precision Grade (Precision Grade A and B).

Tapped

Part Number	D Tolerance		D	P	L	B	E	R	M	Tightening Torque N·cm	ℓ
	Type	D									
KFPBT GKFPBT SKFPBT CKFPBT (Buff Finished) MKFPBT MGKFPBT MCKFPBT	M P G H	S M P G H	6	6.00-10.00	6-12	3.0-12.0	1.0-20.0	5	M3	147	5
			6T	-	6-10	-			M2.6	-	4
			8	8.00-13.00	8-16	3.0-14.0			M5	676	8
			8T	-	6-12	-			M4	333	6
			10	10.00-15.00	10-20	3.0-16.0			M5	676	8
			10T	-	6-16	-			M4	333	6
			12	12.00-16.00	12-24	3.0-18.0			M5	676	8
			12T	-	8-18	-			M4	333	6
			13	13.00-18.00	13-26	3.0-20.0			M8	2803	10
			13T	-	8-20	-			M6	1156	9
16	16.00-25.00	16-32	3.0-20.0	M8	2803	12					
16T	-	10-24	-	M6	1156	9					
20	20.00-30.00	20-40	3.0-20.0	M8	2803	12					
20T	-	12-30	-	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")
 * 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.

Threaded

Part Number	D Tolerance		D	P	L	B	E	R	M	Tightening Torque N·cm
	Type	D								
KFPBNA GKFPBNA* SKFPBNA CKFPBNA (Buff Finished) MKFPBNA* MGKFPBNA*	M P G H A B	S M P G H A B	3	3.50-6.00	2-6	2.0-10.0	1.0-20.0	5	M3	147
			4	4.50-7.00	2-8	2.0-10.0			M4	333
			5	5.50-8.00	3-10	2.0-10.0			M5	676
			6	6.50-10.00	3-10	3.0-12.0			M6	1156
			8	9.00-13.00	5-10	3.0-14.0			M8	2803
			10	11.00-15.00	5-15	3.0-16.0			M10	5557
			12	13.00-18.00	8-15	3.0-18.0			M12	9702
			16	17.00-25.00	8-20	3.0-20.0			M16	24108
			20	22.00-30.00	10-20	3.0-20.0			M20	46942

⊕ Applicable when D ≥ 5.
 ⊕ Hard Chrome Plating and buffed products are not available for * marked Precision Grade (Precision Grade A and B).
 ⊕ 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.

Details of E and R Dimension Range

P	E		R Selection	
	0.01mm Increment	0.5mm Increment		
2.00-4.00	1.0-2.0	5	10	
4.01-8.00	2.5-4.0	10	15	
8.01-12.00	4.5-7.0	10	15	20
12.01-16.00	5.0-10.0		15	20
16.01-20.00	5.0-15.0		20	25
20.01-25.00	5.0-15.0		25	30
25.01-30.00	5.0-20.0		30	35

Ordering Example: Part Number MGKFPBA M S 10 - P12.00 - L10 - B4.0 - E6.0 - R20

Press Fit

D	Unit Price						
	①	②	③	④	⑤	⑥	⑦
2	KFPBA	GKFPBA	SKFPBA	CKFPBA	MKFPBA	MGKFPBA	MCKFPBA
3							
4							
5							
6							
8							
10							
12							
13							
16							
20							

Tapped

D	Unit Price						
	①	②	③	④	⑤	⑥	⑦
6	KFPBT	GKFPBT	SKFPBT	CKFPBT	MKFPBT	MGKFPBT	MCKFPBT
6T							
8							
8T							
10							
10T							
12							
12T							
13							
13T							
16							
16T							
20							
20T							

Threaded

D	Unit Price					
	①	②	③	④	⑤	⑥
3	KFPBNA	GKFPBNA	SKFPBNA	CKFPBNA	MKFPBNA	MGKFPBNA
4						
5						
6						
8						
10						
12						
16						
20						

⊕ Precision Grade Price
 When A and B tolerance is selected, multiply the unit price below by 1.1.
 Example of Price Calculation
 KFPBAAB10-P12.00-L10-B5.0-E5.0-R15

Alterations: Part Number KFPBAMA12 - P14.00 - L10 - B3.5 - E5.0 - R15 - RC

Alteration	Screwdriver Slot	Insertion Guide	Sphere Tip	Air Vent
	Code	DRC	GDC	RC
Spec.	Width 0.8mm Depth 1mm ⊕ Applicable to Threaded only.	Adds the insertion guide. Ordering Code: GDC ⊗ Not applicable to D=2. ⊗ Not applicable to Threaded.	Changes the relief to R0.5. Ordering Code: RC ⊕ Applicable when P-D ≥ 2	Adds an air vent. Ordering Code: AC ⊗ Not applicable to Threaded.