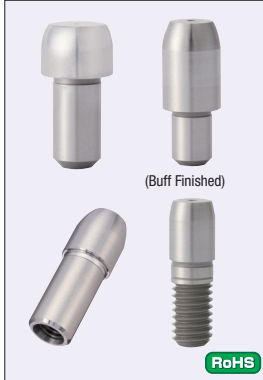


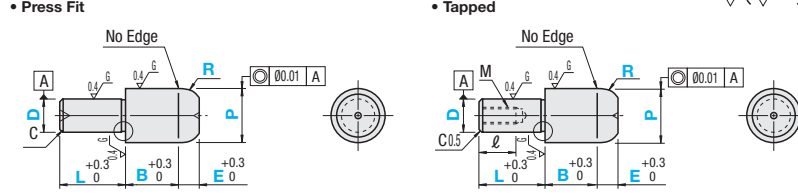
Locating Pins - Large Head, Round Tapered

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.

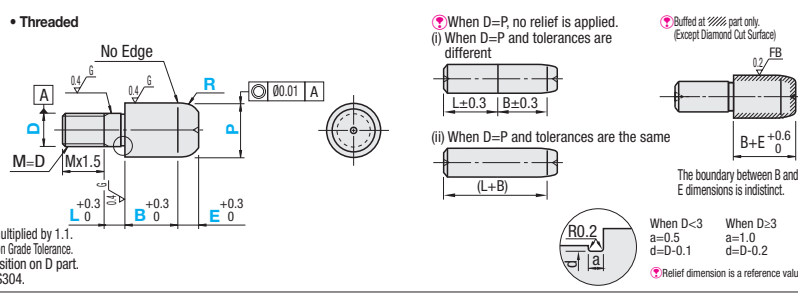


Material No.	Material	Surface Treatment	Hardness	Type		
				Press Fit	Tapped	Threaded
①	SKS3 Equivalent	-	Treated Hardness: 60 ~ 63HRC	KFPBA	KFPBT	GKFPBNA
②	SKS3 Equivalent	Hard Chrome Plating Plating Thickness: 3µm or more	Treated Hardness: 59 ~ 55HRC Plating Hardness: 750HV	GKFPBA	GKFPBT	GKFPBNA
③	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 + Buffing Plating Thickness: 3µm or more	Treated Hardness: 59 ~ 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	S	A	B
2.00	+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	-0.01	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	-	-	-
30.00	+0.008	+0.022	-0.020	-0.021	-	-	-



■ **Press Fit**

Part Number	Type	D Tolerance	P Tolerance	D	P				R Selection	C
					0.01mm Increment	1mm Increment	0.5mm Increment	0.5mm Increment		
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	-						

① Applicable when D ≥ 5.
② Hard Chrome Plating and buffed products are not available for * marked Precision Grade (Precision Grade A and B).

■ **Tapped**

Part Number	Type	D Tolerance	P Tolerance	D	P				R Selection	M (Coarse)	* Tightening Torque N·cm	ℓ
					0.01mm Increment	1mm Increment	0.5mm Increment	0.5mm Increment				
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	3.0-12.0			M2.6	-	4	
				8	8.00-13.00	8-16			3.0-14.0	M5	676	8
				8T	6-12	3.0-14.0			M4	333	6	
				10	10.00-15.00	10-20			3.0-16.0	M5	676	8
				10T	6-16	3.0-16.0			M4	333	6	
				12	12.00-16.00	12-24			3.0-18.0	M5	676	8
				12T	8-18	3.0-18.0			M4	333	6	
				13	13.00-18.00	13-26			3.0-20.0	M8	2803	10
				13T	8-20	3.0-20.0			M6	1156	9	
16	16.00-25.00	16-32	3.0-20.0	M8	2803	12						
16T	10-24	3.0-20.0	M6	1156	9							
20	20.00-30.00	20-40	3.0-20.0	M8	2803	12						
20T	12-30	3.0-20.0	M6	1156	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 Note the strength of under-head part. P.1566
③ Please confirm pilot hole depth on P.1566. Holes may go through.
④ 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	Type	D Tolerance	P Tolerance	D	P				R Selection	M (Coarse)	* Tightening Torque N·cm
					0.01mm Increment	1mm Increment	0.5mm Increment	0.5mm Increment			
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

① Applicable when D ≥ 5.
② 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	25			
16.01-20.00	5.0-15.0			20	25	30		
20.01-25.00	5.0-15.0				25	30	35	
25.01-30.00	5.0-20.0					30	35	40

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

Press Fit

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

Threaded

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

Tapped

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

① 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	AC
Spec.	Width 0.8mm Depth 1mm ① Applicable to Threaded only.	Adds the insertion guide. Ordering Code: GDC ② Not applicable to D=2. ③ Not applicable to Threaded.	Changes the relief to R0.5. Ordering Code: RC ④ Applicable when P-D ≥ 2	Adds an air vent. Ordering Code: AC ⑤ Not applicable to Threaded.