

# Locating Pins - Small Flat Head

## D and P Selectable Tolerance

For products uncovered by e-Catalog Standard, see P.131.

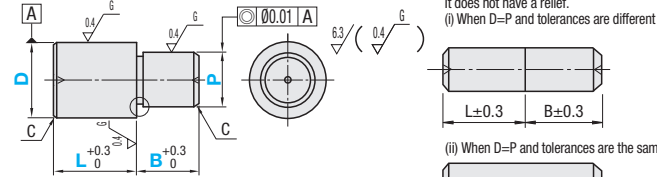
Features: Small Flat Head with each dimension configurable. The tolerances on both ends are also configurable.



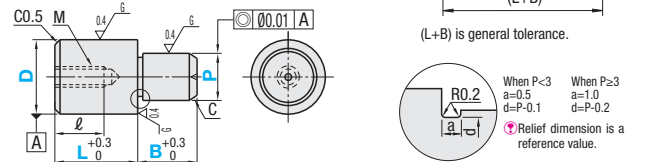
RoHS 10

Material No.	Material	Surface Treatment	Hardness	Type	
				Press Fit	Tapped
(1)	SKS3 Equivalent	-	Treated Hardness: 60~63HRC	KFFSA	KFFSTA
(2)	SKS3 Equivalent	Hard Chrome Plating	Treated Hardness: 50~55HRC Plating Hardness: 750HV ~	GKFFSA	GKFFSTA
(3)	SKS3 Equivalent	-	-	BKFFSA	BKFFSTA
(4)	SUS304	-	-	SKFFSA	SKFFSTA
(5)	SUS304	Hard Chrome Plating	Plating Hardness: 750HV ~	HKFFSA	-
(6)	SUS440C or 13Cr stainless	-	Treated Hardness: 50~55HRC	CKFFSA	CKFFSTA

### Press Fit



### Tapped



SUS440C or 13Cr stainless has an identification groove at any position on D part.  
Polished, centering hole is sometimes not available for SUS304.

### Tolerance Selection

D or P	Standard Grade					Precision Grade	
	M	P	G	H	S	A	B
1.50	+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	+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	-	-	-

The unit price of Precision Type is the price of Standard Type multiplied by 1.1.  
Hard Chrome Plating products are not available with Precision Grade Tolerance.

### Press Fit

Type	Part Number		D	P	L	B	C
	D Tolerance	P Tolerance					
KFFSA GKFFSA* BKFFSA SKFFSA HKFFSA* CKFFSA	M P G H *A *B	S M P G H *A *B	2	0.01mm Increment	1mm Increment	0.1mm Increment	0.1
			3	1.50~2.00	2~5	2.0~10.0	
			4	1.50~3.00	3~10	2.0~10.0	
			5	1.50~4.00	4~10	2.0~10.0	
			6	2.00~5.00	5~10	2.0~15.0	
			8	2.00~6.00	5~17	4.0~15.0	
			10	3.00~8.00	8~21	6.0~20.0	
			12	3.00~10.00	10~23	6.0~20.0	
			13	5.00~12.00	12~24	6.0~30.0	
			16	6.00~13.00	13~26	6.0~30.0	
20	10.00~16.00	16~32	7.0~30.0				
20	13.00~20.00	20~40	7.0~30.0	3			

Hard Chrome Plating products are not available with \* marked Precision Grade Tolerance.

### Tapped

Type	Part Number		D	P	L	B	M	Tightening Torque N·cm	ℓ	C
	D Tolerance	P Tolerance								
KFFSTA GKFFSTA BKFFSTA SKFFSTA CKFFSTA	M P G H	S M P G H	6	0.01mm Increment	1mm Increment	0.1mm Increment	M3	98	5	0.5
			6T	4.00~6.00	8~17	4.0~15.0				
			8	6.00~8.00	11~21	6.0~30.0				
			8T	6.00~8.00	11~21	6.0~30.0				
			10	7.00~10.00	11~23	6.0~30.0				
			12	7.00~12.00	12~24	6.0~30.0				
			13	8.00~13.00	13~26	6.0~30.0				
			16	10.00~16.00	16~32	7.0~30.0				
			20	13.00~20.00	20~40	7.0~30.0				
			20	13.00~20.00	20~40	7.0~30.0				

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.1618 Please confirm pilot hole depth on P.1618. Holes may go through.

The tightening torque (ref. value) for hardened products is strength class 8.8. (See technical data on P.2365.) Not applicable when using locking materials or lock washers.

Ordering Example

Part Number	-	P	-	L	-	B
KFFSA G S 10	-	P8.00	-	L10	-	B8.0

Precision Grade Price  
When A, B tolerance is selected, multiply by 1.1 to the above unit price.

### Press Fit

D	Unit Price Standard Grade					
	(1)Treated SKS3 KFFSA	(2)Hard SKS3 GKFFSA	(3)SKS3 BKFFSA	(4)SUS304 SKFFSA	(5)Hard SUS304 HKFFSA	(6)SUS440C or 13Cr stainless CKFFSA
2						
3						
4						
5						
6						
8						
10						
12						
13						
16						
20						

### Tapped

D	Unit Price Standard Grade				
	(1)Treated SKS3 KFFSTA	(2)Hard SKS3 GKFFSTA	(3)SKS3 BKFFSTA	(4)SUS304 SKFFSTA	(6)SUS440C or 13Cr stainless CKFFSTA
6					
6T					
8					
8T					
10					
12					
13					
16					
20					

Alterations Part Number - P - L - B - (GDC, RC, AC, CN, LAC)  
KFFSAGS10 - P8.00 - L10 - B8.0 - RC

Alterations	Insertion Guide	Sphere Tip	Air Vent	C Chamfered Size	Wrench Hole Machining
Code	GDC	RC	AC	CN	LAC
Spec.	Adds the insertion guide. (Ordering Code) GDC Insertion Guide D: $\begin{matrix} -0.01 \\ -0.03 \end{matrix}$ $\begin{matrix} D \\ \ell \end{matrix}$ $\begin{matrix} 3-6 & 1 \\ 8-20 & 2 \end{matrix}$	Changes the relief to R0.5. (Ordering Code) RC $\begin{matrix} RC \\ (R0.5) \end{matrix}$ Applicable when D-P $\geq$ 2.	Adds an air vent. (Ordering Code) AC D-0.15 D=P (Round)	Changes C Chamfering at P dimension part to 0.5 or less. (Ordering Code) CN C0.5 or Less	Machines wrench holes. (Ordering Code) LAC $\begin{matrix} D \\ B \end{matrix}$ $\begin{matrix} 8 & 8T \\ 10 & \\ 12 & 8.0- \\ 13 & 9.0- \\ 16 & 9.0- \\ 20 & 10.0- \end{matrix}$ Wrench Hole Dimensions $\begin{matrix} P & G \\ 6.00-9.99 & 2 \\ 10.00-15.99 & 3.5 \\ 16.00- & 5 \end{matrix}$