

Locating Pins - Large Flat Head

D and P Selectable Tolerance

■Features: Large Flat Head with each dimension configurable. Selectable tolerance on both ends.

Material No.	Material	Surface Treatment	Hardness	Type		
				Press Fit	Tapped	Threaded
①	SKS3 Equivalent	-	Treated Hardness: 60 ~ 63HRC	KFFA	KFFTA	KFFNA
②	SKS3 Equivalent	Hard Chrome Plating Plating Thickness: 3µm or more	Treated Hardness: 50 ~ 55HRC Plating Hardness: 750HV ~	GKFFA	GKFFTA	GKFFNA
③	SKS3 Equivalent	-	-	BKFFA	BKFFTA	-
④	SUS304	-	-	SKFFA	SKFFTA	SKFFNA
⑤	SUS400 Equivalent	-	Treated Hardness: 50 ~ 55HRC	CKFFA	CKFFTA	-

(Alteration CN)

RoHS10

• Press Fit

• Tapped

• Threaded

When D<3
a=0.5
d=D-0.1

When D≥3
a=1.0
d=D-0.2

Relief dimension is a reference value.

⚡ SUS400 Equivalent has an identification groove at any position on D part.

⚡ Polished, centering hole is sometimes not available for SUS304.

Press Fit													
Part Number				P		L	B	C	Unit Price Standard Grade				
Type	D Tolerance	P Tolerance	D	0.01mm Increment	1mm Increment	0.1mm Increment			①	②	③	④	⑤
KFFA GKFFA* BKFFA SKFFA CKFFA	M P G H *A *B	S M P G H *A *B	1	1.50~2.50	2~3	2.0~5.0	0.1		KFFA	GKFFA	BKFFA	SKFFA	CKFFA
			2	2.50~4.00	2~6	2.0~10.0	0.5						
			3	3.50~6.00	3~6	2.0~10.0							
			4	4.50~7.00	4~8	2.0~10.0	1						
			5	5.50~8.00	5~10	2.0~10.0							
			6	6.50~10.00	6~12	2.0~12.0							
			8	9.00~13.00	8~16	2.0~15.0	1.5						
			10	11.00~15.00	10~20	3.0~20.0	2						
			12	13.00~16.00	12~24	3.0~30.0							
			13	14.00~18.00	13~26	5.0~30.0							
			16	17.00~25.00	16~32	5.0~35.0	3						
			20	22.00~30.00	20~40	5.0~40.0							

Hard Chrome Plating products are not available for * marked Precision Grade (Precision Grade A and B).																					
■ Tapped		Part Number										Unit Price									
Type	D Tolerance	P Tolerance	D	P	L	B	M (Coarse)	* Tightening Torque N·cm	ℓ	C	① KFFTA	② GKFFTA	③ BKFFTA	④ SKFFTA	⑤ CKFFTA						
KFFTA GKFFTA BKFFTA SKFFTA CKFFTA	M P G H	S M P G H	6				M3	147	5	1											
			6T	6.50~10.00	6~12	2.0~12.0	M2.6	-	4												
			8	9.00~13.00	8~16	2.0~15.0	M5	676	8	1.5											
			8T		6~12		M4	333	6												
			10	11.00~15.00	10~20	3.0~20.0	M5	676	8	2											
			10T		6~16		M4	333	6												
			12	13.00~16.00	12~24	3.0~30.0	M5	676	8												
			12T		M4	333	6														
			13	14.00~18.00	13~26	5.0~30.0	M8	2803	10	3											
			13T		8~20		M6	1156	9												
			16	17.00~25.00	16~32	5.0~35.0	M8	2803	12												
			16T		10~24		M6	1156	9												
			20	22.00~30.00	20~40	5.0~40.0	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.

Part Number				P	L	B	C	M	*Tightening Torque N·cm	Unit Price Standard Grade		
Type	D Tolerance	P Tolerance	D	0.01mm Increment	1mm Increment	0.1mm Increment		(Coarse)		①	②	④
KFFNA GKFFNA* SKFFNA	M P G H *A *B	S M P G H *A *B	3	3.50~6.00	2~6	3.0~10.0	0.5	M3	147			
			4	4.50~7.00	2~8	4.0~10.0		M4	333			
			5	5.50~8.00	3~10	4.0~10.0	1	M5	676			
			6	6.50~10.00	3~10	4.0~12.0		M6	1156			
			8	9.00~13.00	5~10	5.0~15.0	1.5	M8	2803			
			10	11.00~15.00	5~15	6.0~20.0	2	M10	5557			
			12	13.00~18.00	8~15	6.0~20.0		M12	9702			
			16	17.00~25.00	8~20	7.0~20.0	3	M16	24108			
			20	22.00~30.00	10~20	10.0~20.0		M20	46942			

⚡ Hard Chrome Plating 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.

Ordering Example

Part Number

Type

D Tolerance

P Tolerance

D

-

P

-

L

-

B

KFFA

M

S

6

-

P8.00

-

L8

-

B6.0

Alterations

Part Number

-

P

-

L

-

B

-

(GDC, RC, AC, CN)

KFFAMS6

-

P8.0

-

L8

-

B6.0

-

RC

Precision Grade Price

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

Alterations Code	Insertion Guide	Sphere Tip	Air Vent	C Chamfered Size
	GDC	RC	AC	CN
Spec.	Adds the insertion guide. Ordering Code: GDC Insertion Guide D: 0.01 D: 3~12 ℓ: 1 13~20 2	Changes the relief to R0.5. Ordering Code: RC RC (R0.5)	Adds an air vent. Ordering Code: AC D: 0.15	Changes C Chamfering at P dimension part to 0.5 or less. Ordering Code: CN C0.5 or Less
	⚡ Not applicable when D≤2	⚡ Applicable when P-D≥2		⚡ Press Fit D≥3 ⚡ Threaded Applicable when D≥4 ⚡ Not applicable to D dimension part.

Locating Pins - Large Flat Head

Side Locating

■Features: Grinding undercut shape and the pin material have been changed to give higher immunity against breaking for lateral load applications.

Material No.	Material	Surface Treatment	Hardness	Type		
				Press Fit	Tapped	Threaded
①	SCM415	-	Carburized 55HRC~ (Depth: 0.7 ~ 0.8)	FPYT	FPYTM	FPYN
②	SUS304	-	-	SFPYT	SFPYTM	SFPYN

RoHS10

Surface Finish Relief

6.3 / (0.4) G

• Press Fit

• Tapped

• Threaded

C0.5 or less

Press Fit								
Part Number			P 0.01mm Increment	L 1mm Increment	B 0.1mm Increment	C	Unit Price	
Type	D	D dim. Tolerance m6					①SCM415 Carburized FPYT	②SUS304 SFPYT
FPYT SFPYT	6	+0.012 +0.004	10.00~13.00	6~12	2.0~15.0	1		
	8	+0.015 +0.006	12.00~15.00	8~16	3.0~20.0	1.5		
	10		14.00~16.00	10~20	3.0~30.0			
	12	+0.018 +0.007	16.00~18.00	12~24	5.0~30.0	2		
	13		17.00~20.00	13~26	5.0~30.0			
	16		20.00~25.00	16~32	5.0~35.0			
	20	+0.021 +0.008	24.00~30.00	20~40	5.0~40.0	3		

Part Number		D dim. Tolerance g6	P 0.01mm Increment	L 1mm Increment	B 0.1mm Increment	M (Coarse)	*Tightening Torque N·cm	ℓ	Unit Price	
Type	D								①SCM415 Carburized FPYTM	②SUS304 SFPYTM
FPYTM SFPYTM	6	-0.004 -0.012	10.00~13.00	9~12	2.0~15.0	M2.6	-	4		
	8	-0.005 -0.014	12.00~15.00	12~16	3.0~20.0	M4	333	6		
	10		14.00~16.00	12~20	3.0~30.0					
	12		16.00~18.00	12~24	5.0~30.0	M5	676	8		
	13	-0.006 -0.017	17.00~20.00	16~26	5.0~30.0					
	16		20.00~25.00	16~32	5.0~35.0					
	20	-0.007 -0.020	24.00~30.00	20~40	5.0~40.0	M8	2803	12		

⚡ Note the strength of under-head part. ⚡ P.1566

* 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.

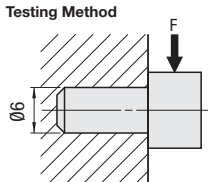
Threaded																				
Part Number			P 0.01mm Increment	L 1mm Increment	B 0.1mm Increment	M (Coarse)	* Tightening Torque N · cm	Unit Price												
Type	D	D dim. Tolerance g6						①SCM415 Carburized FPYN	②SUS304 SFPYN											
FPYN SFPYN	6	-0.004 -0.012	10.00~13.00	3~10	2.0~15.0	M6	1156													
	8	-0.005 -0.014	12.00~15.00	5~10	3.0~15.0	M8	2803													
	10		14.00~16.00	5~15	3.0~20.0	M10	5557													
	12	-0.006 -0.017	16.00~18.00	8~15	5.0~20.0	M12	9702													
	16		20.00~25.00	8~20	5.0~20.0	M16	24108													
	20	-0.007 -0.020	24.00~30.00	10~20	5.0~20.0	M20	46942													

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	Ordering Example	Part Number	-	P	-	L	-	B
		FPYT10	-	P15.00	-	L15	-	B10.0

■ Static Shear Failure Data

Testing Method



Material	Static Yield Load (KN)	
	Relief	R1
Carburized SCM415	18.8	21.3

⚡ Values are for reference, not guaranteed.