

Locating Pins - Large Head, Tapered

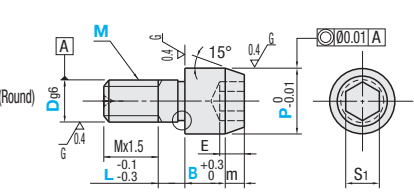
Threaded, Hex Socket

■Features: Hex Socket is attached to the tip of Large Head, Tapered. It is easy to mount as you can stop the head rotation.



RoHS 10

Material No.	Material	Surface Treatment	Hardness	Type	Shape Code
①	SKS3 Equivalent	-	Treated Hardness: 60 ~ 63HRC	FPNS	A (Round) D (Diamond)
②	SKS3 Equivalent	Hard Chrome Plating	Treated Hardness: 50 ~ 55HRC Plating Hardness: 750HV ~	GFPNS	
③	SKS3 Equivalent	-	-	BFPNS	
④	SUS304	-	-	SFPNS	
⑤	SUS304	Hard Chrome Plating	Plating Hardness: 750HV ~	HFPNS	
⑥	SUS440C Equivalent	-	Treated Hardness: 50 ~ 55HRC	CFPNS	



Relief dimension is a reference value.

■Tapped and Threaded Recommended Tightening Torque (Reference)

M (Coarse)	Tightening Torque N·cm
M3	98
M4	225
M5	461
M6	784
M8	1911
M10	3783
M12	6605
M16	16366
M20	32928

⚠ The tightening torque (ref. value) for hardened products is strength class 8.8. (See technical data on **P2297**.)

⚠ SUS440C Equivalent has an identification groove at any position on D part.

⚠ When M<D, the incomplete threaded portion (Pitchx2) is included in Mx1.5.

Part Number		D	D dim. Tolerance g6	P	L	B	M	m	(W)	S1	S2	E
Type	Shape			0.01mm Increment	1mm Increment	0.1mm Increment	(Coarse)					
FPNS GFPNS BFPNS SFPNS HFPNS CFPNS	A (Round) D (Diamond) ⚠ Applicable when D≥6	3	-0.002 -0.008	6.00~6.50	2~6	3.5~10.0	3	2	-	-	-	-
		4	-0.004 -0.012	6.50~7.00	2~8	2.5~10.0	3 4	-	-	3	-	2
		5	-0.004 -0.012	6.50~8.00	3~10	2.5~10.0	3 4 5	3	-	-	-	-
		6	-0.005 -0.014	6.50(8.00)~10.00	3~10	2.5~12.0	4 5 6	3	3	3	3	-
		8	-0.005 -0.014	9.00(10.00)~13.00	5~10	3.0~15.0	4 5 6 8	4	3.5	4	4	2.5
		10	-0.006 -0.017	11.00(12.00)~15.00	5~15	4.5~20.0	5 6 8 10	4	4	5	5	3
		12	-0.006 -0.017	13.00~18.00	8~15	6.0~20.0	6 8 10 12	5	5	6	6	4
		16	-0.007 -0.020	17.00~25.00	8~20	8.0~20.0	8 10 12 16	7	7	8	8	5
		20	-0.007 -0.020	22.00~30.00	10~20	8.0~20.0	10 12 16 20	9	9	8	8	5

⚠ P dimension in () is applicable to Diamond Shape. ⚠ When M dimension is not specified, D=M.

Ordering Example

Part Number

Type Shape D - P - L - B - M

FPNS A 10 - P12.00 - L5 - B5.0

GFPNS D 16 - P19.50 - L14 - B10.0 - M12

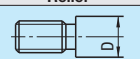
Alterations

Part Number

FPNSA8 - P10.00 - L10 - B10.0 - M6 - NNC

Alterations

Relief



Code

NNC

Spec.

Adds a relief at the thread end.

⚠ Undercut length is approx. Pitchx2.

⚠ Not applicable to D=M.

D	Unit Price Round Shape						Unit Price Diamond Shape					
	①SKS3 Hardened	②Hard SKS3	③SKS3	④SUS304	⑤Hard SUS304	⑥SUS440C	①SKS3 Hardened	②Hard SKS3	③SKS3	④SUS304	⑤Hard SUS304	⑥SUS440C
3	FPNSA	GFPNSA	BFPNSA	SFPNSA	HFPNSA	CFPNSA	FPNSD	GFPNSD	BFPNSD	SFPNSD	HFPNSD	CFPNSD
4							-	-	-	-	-	-
5							-	-	-	-	-	-
6							-	-	-	-	-	-
8												
10												
12												
16												
20												

Locating Pins - Large Head, Tapered

Screw Mounted, Standard / Compact

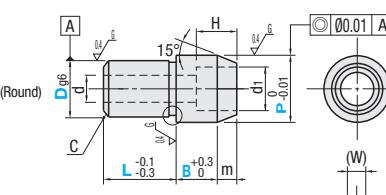
■Features: Large Head, Tapered. The hollow area is a screw hole. Improved maintainability compared to the press fit type.



RoHS 10

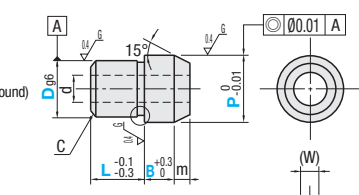
Material No.	Material	Surface Treatment	Hardness	Standard			Compact			Shape Code
				P Configurable	P, L, B Configurable		P, L, B Configurable			
①	SKS3 Equivalent	-	Treated Hardness: 60 ~ 63HRC	JPT	FPT		FPTC			MA (Round) MD (Diamond)
②	SKS3 Equivalent	Hard Chrome Plating	Treated Hardness: 50 ~ 55HRC Plating Hardness: 750HV ~	-	GFPT		-			
③	SKS3 Equivalent	-	-	-	BFPT		-			
④	SUS304	-	-	SJPT	SFPT		SFPTC			
⑤	SUS304	Hard Chrome Plating	Plating Hardness: 750HV ~	-	HFPT		-			
⑥	SUS440C Equivalent	-	Treated Hardness: 50 ~ 55HRC	CJPT	CFPT		-			

■Standard



Relief dimension is a reference value.

■Compact



Relief dimension is a reference value.

■Applicable Screws

D	g6	d	d1	H	Applicable Screw M
10	-0.005 -0.014	4.5	8	5	M4
12	-0.006 -0.017	5.5	9.5	6.5	M5
13	-0.006 -0.017	6.6	11	7.5	M6
16	-0.007 -0.020	9	14	10	M8
20	-0.007 -0.020				

⚠ SUS440C Equivalent has an identification groove at any position on D part. ⚠ Relief dimension is a reference value.

Standard, P Configurable		Standard, P, L, B Configurable	
Type	Shape	Part Number	
		D	P
JPT SJPT CJPT	MA (Round) MD (Diamond)	10	14.00~17.00
		12	15.00~18.00
		13	17.00~20.00
		16	20.00~27.00
		20	23.00~30.00

Compact		Standard, P, L, B Configurable	
Type	Shape	Part Number	
		D	P
FPTC SFPTC	MA (Round) MD (Diamond)	10	14.00~17.00
		12	15.00~18.00
		13	17.00~20.00
		16	20.00~27.00
		20	23.00~30.00

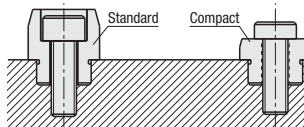
Standard, P Configurable		Standard, P, L, B Configurable	
D	Unit Price Round Shape	Unit Price Diamond Shape	Unit Price Diamond Shape
10	①SKS3 Hardened JPTMA	④SUS304 SJPTMA	⑥SUS440C CJPTMA
12			
13			
16			
20			

Standard, P, L, B Configurable		Standard, P, L, B Configurable	
D	Unit Price Round Shape	Unit Price Diamond Shape	Unit Price Diamond Shape
10	①SKS3 Hardened FPTMA	④SUS304 SFPTMA	⑥SUS440C CFPTMA
12			
13			
16			
20			

■Compact

D	Unit Price Round Shape	Unit Price Diamond Shape
10	①SKS3 Hardened FPTCMA	④SUS304 SFPTCMA
12		
13		
16		
20		

Example



Although the screw heads protrude from Compact Type pin, head diameter P and height B are configurable to even smaller dimensions.