

Locating Pins - Large Head, Tapered

Threaded, Hex Socket

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

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 Plating Thickness: 3µm or more	Treated Hardness: 50 ~ 55HRC Plating Hardness: 750HV ~	GFPNS	
③	SKS3 Equivalent	-	-	BFPNS	
④	SUS304	-	-	SFPNS	
⑤	SUS304	Hard Chrome Plating Plating Thickness: 3µm or more	Plating Hardness: 750HV ~	HFPNS	
⑥	SUS440C Equivalent	-	Treated Hardness: 50 ~ 55HRC	CFPNS	

⚠ 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.

⚠ Relief dimension is a reference value.

⚠ Tapped and Threaded Recommended Tightening Torque (Reference)

M (Coarse)	Tightening Torque N·cm
M3	147
M4	333
M5	676
M6	1156
M8	2803
M10	5557
M12	9702
M16	24108
M20	46942

⚠ Tightening torque (reference) will be within Strength Class of Tightening Torque on Technical Data # P2297 (10.9). Not applicable when using locking materials or lock washers.

Type	Shape	D	D dim. Tolerance g6	Part Number			M (Coarse)	m	(W)	S1	S2	E
				P 0.01mm Increment	L 1mm Increment	B 0.1mm Increment						
FPNS GFPNS BFPNS SFPNS HFPNS CFPNS	A (Round)	3	-0.002 -0.008	6.00-6.50	2-6	3.5-10.0	3	2	-	-	-	-
		4	-0.004	6.50-7.00	2-8	2.5-10.0	3 4	-	-	-	-	-
		5	-0.012	6.50-8.00	3-10	2.5-10.0	3 4 5	3	-	3	-	2
		6	-0.005	6.50(8.00)-10.00	3-10	2.5-12.0	4 5 6	3	-	3	-	-
		8	-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
	D (Diamond) D≥6	10	-0.014	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	4	5	6	6	4
		16	-0.007 -0.020	17.00-25.00	8-20	8.0-20.0	8 10 12 16	5	7	8	8	5
		20	-0.007 -0.020	22.00-30.00	10-20	8.0-20.0	10 12 16 20	5	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] - (NNC)

Alterations: Part Number FPNSA8 - P10.00 - L10 - B10.0 - M6 - NNC

Alterations: Part Number GFPNSA8 - P19.50 - L14 - B10.0 - M12

Alterations	Relief	
	Code	Spec.
	NNC	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.

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

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

Applicable Screws

D	g6	d	d1	H	Applicable Screw M	Tightening N·cm
10	-0.005 -0.014	4.5	8	5	M4	333
12	-0.006 -0.017	5.5	9.5	6.5	M5	676
13	-0.006 -0.017	6.6	11	7.5	M6	1156
16	-0.007 -0.020	9	14	10	M8	2803

Type	Shape	D	Part Number			m	(W)
			P 0.01mm Increment	L 1mm Increment	B 0.1mm Increment		
JPT SJPT CJPT	MA (Round) MD (Diamond)	10	14.00-17.00	5-14	3.0-16.0	4	4
		12	15.00-18.00	6-15	3.0-18.0	5	5
		13	17.00-20.00	6-16	3.0-20.0	5.5	5.5
		16	20.00-27.00	7-18	3.0-20.0	7	7
		20	23.00-30.00	8-20	3.0-20.0	9	9

Type	Shape	D	Part Number			m	(W)
			P 0.01mm Increment	L 1mm Increment	B 0.1mm Increment		
FPTC SFPTC	MA (Round) MD (Diamond)	10	11.00-15.00	5-14	3.0-16.0	4	4
		12	13.00-17.00	6-15	3.0-18.0	5	5
		13	14.00-18.00	6-16	3.0-20.0	5.5	5.5
		16	17.00-21.00	7-18	3.0-20.0	7	7
		20	21.00-25.00	8-20	3.0-20.0	9	9

D	Unit Price Round Shape			Unit Price Diamond Shape		
	①SKS3 Hardened	④SUS304	⑥SUS440C	①SKS3 Hardened	④SUS304	⑥SUS440C
10	JPTMA	SJPTMA	CJPTMA	JPTMD	SJPTMD	CJPTMD
12						
13						
16						
20						

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
10	FPTMA	GFPTMA	BFPTMA	SFPTMA	HFPTMA	CFPTMA	FPTMD	GFPTMD	BFPTMD	SFPTMD	HFPTMD	CFPTMD
12												
13												
16												
20												

Compact

D	Unit Price Round Shape		Unit Price Diamond Shape	
	①SKS3 Hardened	④SUS304	①SKS3 Hardened	④SUS304
10	FPTCMA	SFPTCMA	FPTCMD	SFPTCMD
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.