

Locating Pins - Large Head, Tapered

Threaded, Hex Socket

Locating Pins - Large Head, Tapered

Screw Mounted, Standard / Compact

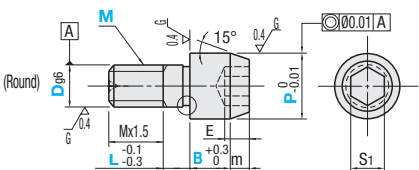
Spec.Change
Printed in Purple

■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.



RoHS 10

Material No.	Material	Surface Treatment	Hardness	Type	Shape Code
①	EN 1.2510 Equiv.	-	Treated Hardness: 60 ~ 63HRC	FPNS	A (Round) D (Diamond)
②	EN 1.2510 Equiv.	Hard Chrome Plating	Treated Hardness: 50 ~ 55HRC Plating Hardness: 750HV ~	GFPNS	
③	EN 1.2510 Equiv.	-	-	BFPNS	
④	EN 1.4301 Equiv.	-	-	SFPNS	
⑤	EN 1.4301 Equiv.	Hard Chrome Plating	Plating Hardness: 750HV ~	HFPNS	
⑥	EN 1.4125 Equiv.	-	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.) Not applicable when using locking materials or lock washers.

⚠ EN 1.4125 Equiv. 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	-	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					4	3.5	4	4	2.5
		8	-0.005 -0.014	9.00(10.00)~13.00	5~10	3.0~15.0	4 5 6 8					4	5	5	5	3
		10	-0.006 -0.017	11.00(12.00)~15.00	5~15	4.5~20.0	5 6 8 10					5	6	6	6	4
		12	-0.006 -0.017	13.00~18.00	8~15	6.0~20.0	6 8 10 12					6	8	10	12	
		16	-0.007 -0.020	17.00~25.00	8~20	8.0~20.0	8 10 12 16					7	8	8	8	5
		20	-0.007 -0.020	22.00~30.00	10~20	8.0~20.0	10 12 16 20					9	9			

⚠ 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					
	①EN 1.2510 Equiv. Hardened	②Hard EN 1.2510 Equiv.	③EN 1.2510 Equiv.	④EN 1.4301 Equiv.	⑤Hard EN 1.4301 Equiv.	⑥EN 1.4125 Equiv.	①EN 1.2510 Equiv. Hardened	②Hard EN 1.2510 Equiv.	③EN 1.2510 Equiv.	④EN 1.4301 Equiv.	⑤Hard EN 1.4301 Equiv.	⑥EN 1.4125 Equiv.
3	FPNSA	GFPNSA	BFPNSA	SFPNSA	HFPNSA	CFPNSA	FPNSD	GFPNSD	BFPNSD	SFPNSD	HFPNSD	CFPNSD
4												
5												
6												
8												
10												
12												
16												
20												

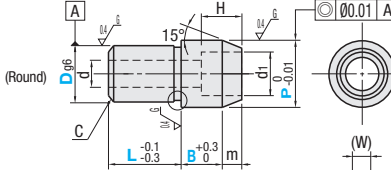
■Features: Large Head, Tapered. The hollow area is a screw hole. Improved maintainability compared to the press fit type.



RoHS 10

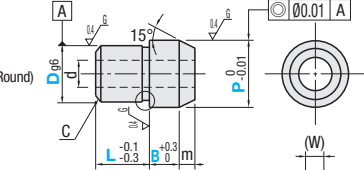
Material No.	Material	Surface Treatment	Hardness	Standard P Configurable	P, L, B Configurable	Compact P, L, B Configurable	Shape Code
①	EN 1.2510 Equiv.	-	Treated Hardness: 60 ~ 63HRC	JPT	FPT	FPTC	MA (Round) MD (Diamond)
②	EN 1.2510 Equiv.	Hard Chrome Plating	Treated Hardness: 50 ~ 55HRC Plating Hardness: 750HV ~	-	GFPT	-	
③	EN 1.2510 Equiv.	-	-	-	BFPT	-	
④	EN 1.4301 Equiv.	-	-	SJPT	SFPT	SFPTC	
⑤	EN 1.4301 Equiv.	Hard Chrome Plating	Plating Hardness: 750HV ~	-	HFPT	-	
⑥	EN 1.4125 Equiv.	-	Treated Hardness: 50 ~ 55HRC	CJPT	CFPT	-	

■Standard



Relief dimension is a reference value.

■Compact



Relief dimension is a reference value.

⚠ EN 1.4125 Equiv. has an identification groove at any position on D part.

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

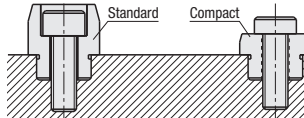
Compact		Standard, P, L, B Configurable	
Type	Shape	Part Number	
		D	P
FPTC SFPTC	MA (Round) MD (Diamond)	10	14.00~17.00
		12	15.00~18.00
		13	17.00~20.00
		16	20.00~27.00
		20	23.00~30.00

D	Unit Price Round Shape			Unit Price Diamond Shape		
	①EN 1.2510 Equiv. Hardened	④EN 1.4301 Equiv. Hardened	⑥EN 1.4125 Equiv. Hardened	①EN 1.2510 Equiv. Hardened	④EN 1.4301 Equiv. Hardened	⑥EN 1.4125 Equiv. Hardened
10	JPTMA	SJPTMA	CJPTMA	JPTMD	SJPTMD	CJPTMD
12						
13						
16						
20						

D	Unit Price Round Shape						Unit Price Diamond Shape					
	①EN 1.2510 Equiv. Hardened	②Hard EN 1.2510 Equiv.	③EN 1.2510 Equiv.	④EN 1.4301 Equiv.	⑤Hard EN 1.4301 Equiv.	⑥EN 1.4125 Equiv.	①EN 1.2510 Equiv. Hardened	②Hard EN 1.2510 Equiv.	③EN 1.2510 Equiv.	④EN 1.4301 Equiv.	⑤Hard EN 1.4301 Equiv.	⑥EN 1.4125 Equiv.
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	
	①EN 1.2510 Equiv. Hardened	④EN 1.4301 Equiv. Hardened	①EN 1.2510 Equiv. Hardened	④EN 1.4301 Equiv. Hardened
10	FPTCMA	SFPTCMA	FPTCMD	SFPTCMD
12				
13				
16				
20				



Example

Standard

Compact

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