

# Locating Pins

## Air Vent, Threaded / Tapped

■ Features: Air vent enables easy insertion of pins.

Material	Hardness	Type	
		Threaded	Tapped
SUJ2	Treated Hardness: 45 - 50HRC	LPN	LPT
SUS304 Equivalent	-	SLPN	SLPT
SUS440C Equivalent	Treated Hardness: 50 - 55HRC	CLPN	CLPT

• Threaded

• Tapped

RoHS 10

Part Number		D dim. Tolerance g6	L						L1	d <sub>g6</sub>	M (Coarse)	Tightening Torque N·cm	l <sub>1</sub>	l <sub>2</sub>	r	Unit Price			
Type	D dim. Tolerance g6		10	12	15	20	25	30								LPN	SLPN	CLPN	
LPN SLPN CLPN	5	-0.004 -0.012	10	12	15	20	25	30	12	3	-0.002 -0.008	M3	147	7	1	1			
	6		10	12	15	20	25	30	15	4		M4	333	10					
	8	-0.005 -0.014	10	12	15	20	25	30	20	5	-0.004 -0.012	M5	676	1.5	1.5				
	10		15	20	25	30			20	6		M6	1156	2	2				
	12	-0.006 -0.017	15	20	25	30													

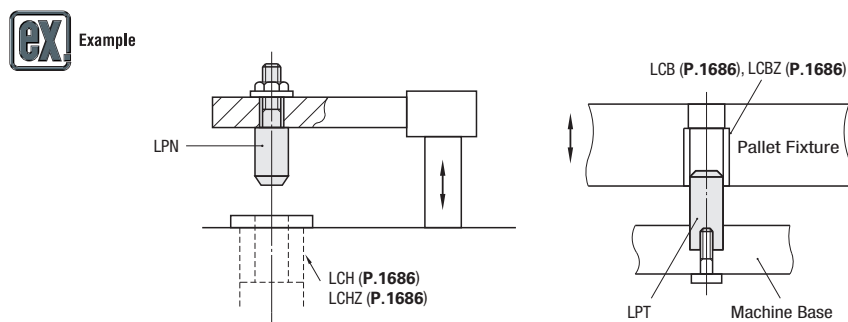
⊕ L=10, 12 are applicable to SLPN and CLPN only.  
 \* Tightening torque (reference) will be within Strength Class of Tightening Torque on Technical Data P. 2297 (10.9). Not applicable when using locking materials or lock washers.

Part Number		D dim. Tolerance g6	L						M (Coarse)	Tightening Torque N·cm	l <sub>1</sub>	l <sub>2</sub>	r	Unit Price			
Type	D dim. Tolerance g6		10	12	15	20	25	30						LPT	SLPT	CLPT	
LPT SLPT CLPT	5	-0.004 -0.012	10	12	15	20	25	30	M3	147	6						
	6		10	12	15	20	25	30	M4	333	8						
	8	-0.005 -0.014	12	15	20	25	30		M5	676	1.5	1.5					
	10		20	25	30				M6	1156	2	2					
	12	-0.006 -0.017	20	25	30												

⊕ l<sub>1</sub>=6 only when D=6, L=10. The pilot hole for tapping 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.

Ordering Example

Part Number	-	L
LPN5	-	15
LPT6	-	20



# Locating Pins

## Plastic, Small Diameter / Plastic, Screw Mounted

■ Features: Having a metal core, it is less prone to be broken when used for side locating. Characteristic of Resin P.2-953, 954

Part Number	Material Code	Material	d	K
SNP (Sphere, Selectable Tolerance)	PM	Polyacetal (White)	0.7	10
SPS (Flat, Standard Tolerance)	EC	Conductive MC Nylon CDR6 (Black)	1.0	16
SNSH (Small Head, Standard Tolerance)	PK	PEEK (Natural Ivory)		

Core Rod Length  
 Straight, Sphere: The smaller of the followings. L-(D/2+2) or the value of row K in the table above  
 Straight, Flat: The smaller of the followings. L-(2) or the value of row K in the table above  
 Small Head: The smaller of the followings. (L+B)-(P/2+2) or the value of row K in the table above

⊕ Some combinations are not available. Refer to the price list to select the available combination.  
 ⊕ Core rod material is SUS304.  
 ⊕ There is a flat part of Ø0.2 or below at the tip of Straight, Sphere and Small Head Type.  
 ⊕ MC Nylon of flat is not available.  
 ⊕ The outer diameter tolerance is the result of measurement at room temperature.

• Plastic, Small Diameter

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• Straight, Sphere

• Straight, Flat

• Small Head

Part Number		D 0.1mm Increment	D dim. Tolerance m6	L 0.5mm Increment	d	Unit Price					
Insertion Guide Shape	Material Code					SNSBB	SNSPM	SNSFC	SNSPK	SPSBB	SPSPM
SNS (Sphere)	BB PM EC PK	1.0~2.0	+0.008 +0.002	5.0~20.0	0.7						
SPS (Flat)		2.1~3.0			1.0						

Part Number		D Tolerance	D 0.01mm Increment	L 0.1mm Increment	d	Unit Price			
Insertion Guide Shape	Material Code					SNPBB	SNPMP	SNPFC	SNPBK
SNP	BB PM EC PK	M (m6) G (g6) H (h7)	1.00~2.00 2.01~3.00	5.0~20.0	0.7 1.0				

Part Number		D 0.1mm Increment	D dim. Tolerance m6	L 0.1mm Increment	P 0.1mm Increment	B 0.1mm Increment	d	Unit Price			
Insertion Guide Shape	Material Code							SNSHBB	SNSHPM	SNSHEC	SNSHPK
SNSH	BB PM EC PK	1.1~2.0 2.1~3.0	+0.008 +0.002	5.0~18.5	1.0~1.9 (D>P) 1.0~2.9 (D>P)	1.5~10.0 (B-P/2≥1.0)	0.4 0.7				

⊕ When D≤2, L+B≤15 When D>2, L+B≤20

Ordering Example

Part Number	-	D	-	L	-	P	-	B
SPSBB	-	D1.5	-	L7.5				
SNSHPM	-	D1.5	-	L10.0	-	P1.0	-	B1.5

Part Number		P (Standard Grade)	P (Precision Grade)	B 1mm Increment	m	d <sub>1</sub>	d <sub>2</sub>	l	Applicable Screw	Unit Price			
Type	No.									1mm Increment Tolerance	0.1mm Increment Tolerance	JPAJ	JPEAJ
JPAJ	FPAJ	3	8~10	0	8.0~10.0	0	10~25	2	6.5	3.5	4.5	M3	
JPEAJ	FPEAJ	4	10~12	-0.2	10.0~12.0	-0.05	15~35	3	8.0	4.5	5.5	M4	
		5	12~16		12.0~16.0		15~50	4	9.5	5.5	6.5	M5	

Operating Ambient Temperature  
 JPAJ (Standard Grade) FPAJ (Precision Grade) Polyacetal (White) -45~95°C  
 JPEAJ (Standard Grade) FPEAJ (Precision Grade) PEEK (Natural Ivory) -50~250°C

Ordering Example

Part Number	-	P	-	B
JPAJ3	-	P8	-	B15

⊕ Characteristics of Polyacetal and PEEK P.2-953, 954