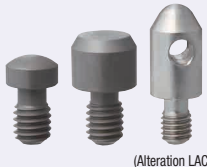


Locating Pins - Tip Shape Selectable

Full Threaded

For products uncovered by e-Catalog Standard, see P.131.

Features: Screw-fitting type without pilot. Costs for hole machining on fixtures can be reduced.



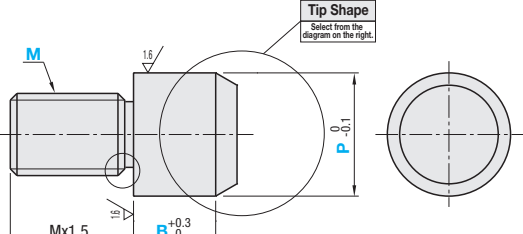
(Alteration LAC)

RoHS 10

Material No.	Material	Surface Treatment	Hardness	Type
(1)	SKS3 Equivalent	-	Treated Hardness: 60~63HRC	JPNG
(2)	SKS3 Equivalent	Hard Chrome Plating Thickness 2µm or more	Treated Hardness: 50~55HRC Plating Hardness: 750HV	GJPNG
(3)	SKS3 Equivalent	-	-	BJPNG
(4)	SUS304	-	-	SJPNG

Tip Shape

Select from the diagram on the right.



M	(a)	(d)
3	1.3	2.2
4	1.8	2.9
5	2	3.7
6	2.5	4.4
8	3.1	6
10	3.7	7.7
12	4.4	9.4
16	5	13
20	6.3	16.4

Above dimensions are for reference, not guaranteed. There is no center hole.

Part Number				P 0.1mm Increment	B 0.1mm Increment	R 1mm Increment	G 1mm Increment	Unit Price				
Type	Tip	M (Coarse)	* Tightening Torque N・cm					(1)Treated SKS3 JPNG	(2)Hard SKS3 GJPNG	(3)SKS3 BJPNG	(4)SUS304 SJPNG	
JPNG GJPNG BJPNG SJPNG	A B C	3	147	3.5~ 8.0	1.0~10.0	Shape A R≥P/2	Shape B G≤P					
		4	333	4.5~ 8.0								
		5	676	5.5~ 8.0								
		6	1156	6.5~10.0				1.0~15.0				
		8	2803	9.0~15.0	1.0~30.0	Shape C R≤P/2						
		10	5557	11.0~17.0	3.0~30.0							
		12	9702	13.0~20.0								
		16	24108	17.0~27.0								
		20	46942	21.0~30.0	5.0~30.0							

* Tightening torque (reference) is of Tightening Torque Strength Class (10.9) indicated on Technical Data P.2365. Not applicable when using locking materials or lock washers.



Ordering Example

Part Number - P - B - R - G

JPNGA3 - P4 - B2 - R2 - G3

JPNGB5 - P6 - B3 - - - G3

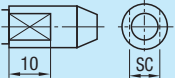
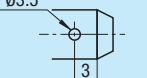
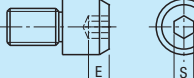


Alterations

Part Number - P - B - R - G - (SC, LAC, RAC)

JPNGA3 - P6 - B2 - R3 - SC5

Any Alteration cannot be combined with the other Alteration.

Alterations	Wrench Flats	Wrench Hole (Ø3.5)	Hex Socket Machining																																		
																																					
Code	SC	LAC	RAC																																		
Spec.	SC = 1mm Increment [Ordering Code] SC5 ⚠ When B≤11, adds wrench flats on the tip. ⚠ P-3≤SC≤P-1, SC≥M	Adds a Ø3.5 hole. [Ordering Code] LAC ⚠ Applicable when B≥10 and P≥8.	Machines hex sockets. [Ordering Code] RAC3 <table><tr><th>G</th><th>B</th><th>S Configurable Range</th><th>S</th><th>E</th></tr><tr><td>4~5</td><td rowspan="3">10~</td><td>2, 2.5</td><td>2</td><td>2</td></tr><tr><td>6~7</td><td>2, 2.5, 3, 4</td><td>2.5</td><td>2</td></tr><tr><td>8~9</td><td>2, 2.5, 3, 4, 5</td><td>3</td><td>2</td></tr><tr><td rowspan="3">10~30</td><td>10~12.9</td><td>2, 2.5, 3, 4, 5, 6</td><td>4</td><td>2.5</td></tr><tr><td rowspan="2">13~</td><td rowspan="2">2, 2.5, 3, 4, 5, 6, 8</td><td>5</td><td>3</td></tr><tr><td>6</td><td>4</td></tr><tr><td></td><td></td><td></td><td>8</td><td>5</td></tr></table> ⚠ Applicable to Shape B with M≥6 only.	G	B	S Configurable Range	S	E	4~5	10~	2, 2.5	2	2	6~7	2, 2.5, 3, 4	2.5	2	8~9	2, 2.5, 3, 4, 5	3	2	10~30	10~12.9	2, 2.5, 3, 4, 5, 6	4	2.5	13~	2, 2.5, 3, 4, 5, 6, 8	5	3	6	4				8	5
	G	B	S Configurable Range	S	E																																
4~5	10~	2, 2.5	2	2																																	
6~7		2, 2.5, 3, 4	2.5	2																																	
8~9		2, 2.5, 3, 4, 5	3	2																																	
10~30	10~12.9	2, 2.5, 3, 4, 5, 6	4	2.5																																	
	13~	2, 2.5, 3, 4, 5, 6, 8	5	3																																	
			6	4																																	
			8	5																																	

Marker Pins

Hex Socket / Flathead Slot

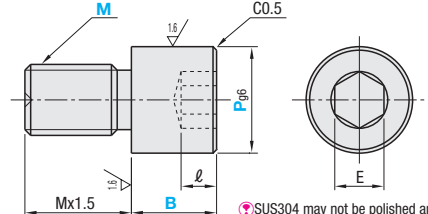
For products uncovered by e-Catalog Standard, see P.131.

Feature: Hex hole enables easy mounting with a hex wrench.



RoHS 10

Material	Surface Treatment	Hardness	Type
S45C Equivalent	-	-	JPLR
	Electroless Nickel Plating	-	JPLRM
SUS304	-	Treated Hardness: 50~55HRC	JPLRK
	-	-	JPLRS



SUS304 may not be polished and may have no centering hole.

P Dim. Tolerance	
P	ge
5.0~6.0	-0.004 -0.012
6.1~10.0	-0.005 -0.014
10.1~15.0	-0.006 -0.017

Part Number		P 0.1mm Increment	B 0.1mm Increment	l	E	Unit Price			
Type	M (Coarse)					JPLR	JPLRM	JPLRK	JPLRS
JPLR JPLRM JPLRK JPLRS	3	147	5.0~6.0	6.5~10.0	2 2				
	4	333	5.0~7.0	6.5~10.0	2 2.5				
	5	676	6.0~8.0	6.5~10.0	2 3				
	6	1156	6.5~10.0	6.5~12.0	2 3				
	8	2803	8.5~12.0	7.5~12.0	2.5 4				
	10	5557	10.5~15.0	8.5~12.0	3 5				

Note that pins with small thread diameter have thin under-head part.

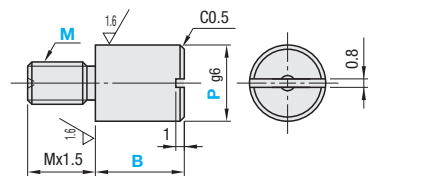
* Tightening torque (reference) is of Tightening Torque Strength Class (10.9) indicated on Technical Data P.2365. Not applicable when using locking materials or lock washers.

Features: Flathead slot enables easy mounting with a screwdriver.



RoHS 10

Material	Surface Treatment	Hardness	Type
S45C Equivalent	-	-	JPLB
	Electroless Nickel Plating	-	JPLBM
SUS304	-	Treated Hardness: 50~55HRC	JPLBK
	-	-	JPLBS



SUS304 may not be polished and may have no centering hole.

P Dim. Tolerance	
P	ge
3.0~6.0	-0.004 -0.012
6.1~10.0	-0.005 -0.014
10.1~15.0	-0.006 -0.017

Part Number		P 0.1mm Increment	B 0.1mm Increment	Unit Price			
Type	M (Coarse)			JPLB	JPLBM	JPLBK	JPLBS
JPLB JPLBM JPLBK JPLBS	2	-	3.0~5.0	5.0~10.0			
	3	147	3.5~6.0	2.0~10.0			
	4	333	4.5~7.0	2.0~10.0			
	5	676	5.5~8.0	2.0~10.0			
	6	1156	6.5~10.0	2.0~12.0			
	8	2803	8.5~12.0	2.0~12.0			
	10	5557	10.5~15.0	2.0~12.0			

Note that pins with small thread diameter have thin under-head part.

* Tightening torque (reference) is of Tightening Torque Strength Class (10.9) indicated on Technical Data P.2365. Not applicable when using locking materials or lock washers.



Ordering Example

Part Number - P - B

JPLR6 - P8.5 - B6.5 (Hex Socket)

JPLB8 - P9.5 - B3.2 (Flathead Slot)

Example Use as guides for workpiece hitting on the side when shear load is not applied.

