

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	Treated Hardness: 50~58HRC Plating Hardness: 750HV	GJPNG
(3)	SKS3 Equivalent	-	-	BJPNG
(4)	SUS304	-	-	SJPNG

$6.3 / (1.6 /)$

Tip Shape
Select from the diagram on the right.

M	(a)	(d)
3	1.3	2.2
4	1.3	2.9
5	1.3	3.7
6	1.7	4.4
8	2.0	6
10	2.5	7.7
12	3.0	9.4
16	3.0	13
20	4.4	16.4

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

Tip Shape

A

$l_1 = R \sqrt{R^2 - \frac{P^2}{4}}$

B

$l_2 = \frac{P-G}{2 \tan 30^\circ}$ Reference: $2 \tan 30^\circ = 1.15$

☎ When $G=P$, add about CO.2 chamfering.

C

$l_3 = \frac{P}{2} / \tan 30^\circ + R - (R / \sin 30^\circ)$

Reference: $\tan 30^\circ = 0.577$ $\sin 30^\circ = 0.5$

Part Number		M (Coarse)	* Tightening Torque N · cm	P 0.1mm Increment	B 0.1mm Increment	R 1mm Increment A Shape, C Shape only	G 1mm Increment B Shape only	Unit Price			
Type	Tip							(1) Treated SKS3 JPNG	(2) Hard SKS3 GJPNG	(3) SKS3 BJPNG	(4) SUS304 SJPNG
JPNG GJPNG BJPNG SJPNG	A B C	3	98	3.5~ 8.0		Shape A $R \geq P/2$	Shape B $G \leq P$				
		4	225	4.5~ 8.0	1.0~10.0						
		5	461	5.5~ 8.0							
		6	784	6.5~10.0	1.0~15.0						
		8	1911	9.0~15.0	1.0~30.0						
		10	3783	11.0~17.0							
		12	6605	13.0~20.0	3.0~30.0						
		16	16366	17.0~27.0							
		20	32928	21.0~30.0	5.0~30.0						

* The tightening torque (ref. value) for hardened products is strength class 8.8. (See technical data on ☎ 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 - R2 - 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																																								
<p>SC</p>	<p>LAC</p>	<p>RAC</p>																																									
<p>Code</p> <p>Spec.</p>	<p>SC = 1mm Increment</p> <p>Ordering Code) SC5</p> <p>☎ When $B \leq 11$, adds wrench flats on the tip.</p> <p>☎ $P-3 \leq SC \leq P-1$, $SC \geq M$</p>	<p>Adds a $\text{Ø}3.5$ hole.</p> <p>Ordering Code) LAC</p> <p>☎ Applicable when $B \geq 10$ and $P \geq 8$.</p>	<p>Machines hex sockets. Ordering Code) RAC3</p> <table border="1"> <thead> <tr> <th>G</th> <th>B</th> <th>S Configurable Range</th> <th>S</th> <th>E</th> </tr> </thead> <tbody> <tr><td>4~5</td><td></td><td>2, 2.5</td><td>2</td><td>2</td></tr> <tr><td>6~7</td><td>10~</td><td>2, 2.5, 3, 4</td><td>2.5</td><td>2</td></tr> <tr><td>8~9</td><td></td><td>2, 2.5, 3, 4, 5</td><td>3</td><td>2</td></tr> <tr><td>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></td><td>13~</td><td>2, 2.5, 3, 4, 5, 6, 8</td><td>5</td><td>3</td></tr> <tr><td></td><td></td><td></td><td>6</td><td>4</td></tr> <tr><td></td><td></td><td></td><td>8</td><td>5</td></tr> </tbody> </table> <p>☎ Applicable to Shape B with $M \geq 6$ only.</p>	G	B	S Configurable Range	S	E	4~5		2, 2.5	2	2	6~7	10~	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
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