

Locating Pins - Straight, Tapered

Press Fit / Tapped

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

Features: The short lead time and economical price are achieved by narrowing down the tolerance and dimensions.



RoHS 10

Material No.	Material	Surface Treatment	Hardness	Type	
				Press Fit	Tapped
(1)	SKS3 Equivalent	-	Treated Hardness: 60~63HRC	LPSTA	LPSTTA
(2)	SKS3 Equivalent	Hard Chrome Plating	Treated Hardness: 50~55HRC Plating Hardness: 750HV~	GLPSTA	GLPSTTA
(3)	SKS3 Equivalent	-	-	BLPSTA	-
(4)	SUS304	-	-	SLPSTA	SLPSTTA
(5)	SUS304	Hard Chrome Plating	Plating Hardness: 750HV~	HLPSTA	HLPSTTA
(6)	SUS440C Equivalent	-	Treated Hardness: 50~55HRC	CLPSTA	-

• Press Fit

• Tapped

⚠ SUS440C Equivalent has an identification groove at any position on D part.
⚠ On some combination of dimensions, the center hole may not be available.
⚠ Polished, centering hole is sometimes not available for SUS304.

⚠ D-2EtanA≥0.73 (Tip Diameter Ø0.73 or more)
Reference: tan15°≈0.267 tan30°≈0.577 tan45°≈1 tan60°≈1.732

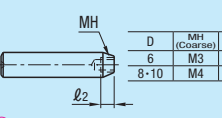
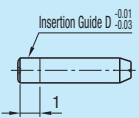
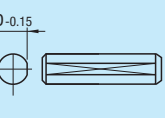
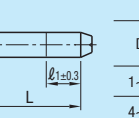
Part Number		L		E	A	C	Unit Price					
Type	D Tol.	D	0.1mm Increment				(1)Treated SKS3	(2)Hard SKS3	(3)SKS3	(4)SUS304	(5)Hard SUS304	(6)SUS440C
LPSTA GLPSTA BLPSTA SLPSTA HLPSTA CLPSTA	M (m6) P (p6) G (g6) H (h7)	1	3.0~10.0	0.5~10.0	15 30 45 60	0.1						
		2	3.0~20.0			0.5						
		3	3.0~25.0			1						
		4	4.0~30.0									
		5	4.0~30.0									
		6	5.0~40.0									
		8	5.0~40.0			1.5						
		10	5.0~40.0			2						

Part Number		L		E	A	M (Coarse)	*Tightening Torque N·cm	ℓ	Unit Price			
Type	D Tol.	D	0.1mm Increment						(1)Treated SKS3	(2)Hard SKS3	(4)SUS304	(5)Hard SUS304
LPSTTA GLPSTTA SLPSTTA HLPSTTA	M (m6) P (p6) G (g6) H (h7)	5	10.0~30.0	0.5~10.0	15 30 45 60	M2	-	3				
		6	10.0~40.0			M3	147	5				
		8	15.0~40.0			M5	676	8				
		10	15.0~40.0									

* 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.

Part Number		L		E	A
Type	D Tol.	D	L		
LPSTA	M	6	L14.0	E2.5	A30
GLPSTA	G	8	L29.3	E8.3	A15

Part Number		L		E	A
Type	D Tol.	D	L		
LPSTAP6	-	L18.5	-	E4.0	A45

Alterations	Tapping	Insertion Guide	Air Vent	Dual Tolerance																								
Code	MH	GDC	AC	DKM/DKP/DKG/DKH																								
Spec.	Adds a tapped hole. (Ordering Code) MH	Adds the insertion guide. (Ordering Code) GDC	Adds an air vent. (Ordering Code) AC	Changes outer diameter tolerance only for the ℓ ₁ length part. (Ordering Code) DKM18 (This code is used only when changing the tolerance to m6 only in case of ℓ ₁ =18.)																								
	 ⚠ D-2EtanA≥M+2 ⚠ Applicable when D≥6 ⚠ Not applicable to Tapped.	 ⚠ Not applicable when D≤2	 ⚠ No relief groove.	 <table><thead><tr><th>D</th><th colspan="4">Tolerance Code</th></tr><tr><th></th><th>DKM</th><th>DKP</th><th>DKG</th><th>DKH</th></tr></thead><tbody><tr><td>1~3</td><td>+0.008</td><td>+0.012</td><td>-0.002</td><td>0</td></tr><tr><td>4~6</td><td>+0.012</td><td>+0.020</td><td>-0.004</td><td>0</td></tr><tr><td>8~10</td><td>+0.015</td><td>+0.024</td><td>-0.005</td><td>0</td></tr></tbody></table>	D	Tolerance Code					DKM	DKP	DKG	DKH	1~3	+0.008	+0.012	-0.002	0	4~6	+0.012	+0.020	-0.004	0	8~10	+0.015	+0.024	-0.005
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Locating Pins - Straight, Sphere

Press Fit / Tapped

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

Features: The sphere head can prevent the mating side from being scratched. Selectable tolerance with each dimension configurable.



RoHS 10

Material No.	Material	Surface Treatment	Hardness	Type	
				Press Fit	Tapped
(1)	SKS3 Equivalent	-	Treated Hardness: 60~63HRC	LPSQA	LPSQTA
(2)	SKS3 Equivalent	Hard Chrome Plating	Treated Hardness: 50~55HRC Plating Hardness: 750HV~	GLPSQA	GLPSQTA
(3)	SKS3 Equivalent	-	-	BLPSQA	BLPSQTA
(4)	SUS304	-	-	SLPSQA	SLPSQTA
(5)	SUS304	Hard Chrome Plating	Plating Hardness: 750HV~	HLPSQA	HLPSQTA
(6)	SUS440C Equivalent	-	Treated Hardness: 50~55HRC	CLPSQA	CLPSQTA

• Press Fit

• Tapped

⚠ SUS440C Equivalent has an identification groove at any position on D part.
⚠ When the D dimension is small, a centering hole will cause the sphere section to become small.
⚠ On some combination of dimensions, the center hole may not be available.
⚠ Polished, centering hole is sometimes not available for SUS304.

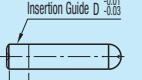
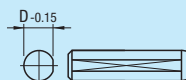
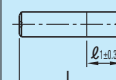
Part Number		L		C	Unit Price					
Type	D Tol.	D	0.1mm Increment		(1)Treated SKS3	(2)Hard SKS3	(3)SKS3	(4)SUS304	(5)Hard SUS304	(6)SUS440C
LPSQA GLPSQA BLPSQA SLPSQA HLPSQA CLPSQA	M (m6) P (p6) G (g6) H (h7)	1	3.0~10.0	0.1						
		2	3.0~20.0	0.5						
		3	3.0~25.0	1						
		4	4.0~30.0							
		5	4.0~30.0							
		6	5.0~40.0							
		8	5.0~40.0	1.5						
		10	5.0~40.0	2						

Part Number		L		M (Coarse)	*Tightening Torque N·cm	ℓ	Unit Price					
Type	D Tol.	D	0.1mm Increment				(1)Treated SKS3	(2)Hard SKS3	(3)SKS3	(4)SUS304	(5)Hard SUS304	(6)SUS440C
LPSQTA GLPSQTA BLPSQTA SLPSQTA HLPSQTA CLPSQTA	M (m6) P (p6) G (g6) H (h7)	5	10.0~30.0	M2	-	3						
		6	10.0~40.0	M3	147	5						
		8	15.0~40.0	M5	676	8						
		10	15.0~40.0									

* 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.

Part Number		L	
Type	D Tol.	D	L
LPSQA	M	6	L14.0
GLPSQA	G	8	L29.3

Part Number		L	
Type	D Tol.	D	L
LPSQAP6	-	L18.5	-

Alterations	Insertion Guide	Air Vent	Dual Tolerance																																			
Code	GDC	AC	DKM/DKP/DKG/DKH																																			
Spec.	Adds the insertion guide. <u>(Ordering Code)</u> GDC	Adds an air vent. <u>(Ordering Code)</u> AC	Changes outer diameter tolerance only for the $\varnothing 1$ length part. <u>(Ordering Code)</u> DKM18 (This code is used only when changing the tolerance to m6 only in case of $\varnothing 1=18$.)																																			
	 ⊗ Not applicable when $D \leq 2$	 ⊗ No relief groove.	 <table><tr><th rowspan="2">D</th><th colspan="4">Tolerance Code</th></tr><tr><th>DKM</th><th>DKP</th><th>DKG</th><th>DKH</th></tr><tr><td rowspan="2">1~3</td><td>m6</td><td>p6</td><td>g6</td><td>h7</td></tr><tr><td>+0.008</td><td>+0.012</td><td>-0.002</td><td>0</td></tr><tr><td rowspan="2">4~6</td><td>+0.012</td><td>+0.020</td><td>-0.004</td><td>0</td></tr><tr><td>+0.004</td><td>+0.012</td><td>-0.012</td><td>-0.012</td></tr><tr><td rowspan="2">8~10</td><td>+0.015</td><td>+0.024</td><td>-0.005</td><td>0</td></tr><tr><td>+0.006</td><td>+0.015</td><td>-0.014</td><td>-0.015</td></tr></table>	D	Tolerance Code				DKM	DKP	DKG	DKH	1~3	m6	p6	g6	h7	+0.008	+0.012	-0.002	0	4~6	+0.012	+0.020	-0.004	0	+0.004	+0.012	-0.012	-0.012	8~10	+0.015	+0.024	-0.005	0	+0.006	+0.015	-0.014
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