

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.

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 or 13Cr stainless	-	Treated Hardness: 50~55HRC	CLPSTA	-

SUS440C or 13Cr stainless 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.

Press Fit
Tapped

Tolerance Selection

D	Standard Grade			
	M	P	G	H
1~3	+0.008 +0.002	+0.012 +0.006	-0.002 -0.008	0 -0.010
4~6	+0.012 +0.004	+0.020 +0.012	-0.004 -0.012	0 -0.012
8, 10	+0.015 +0.006	+0.024 +0.015	-0.005 -0.014	0 -0.015

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

Press Fit

Part Number	Type	D Tol.	D	L	E	A	C	Unit Price									
								(1)Treated SKS3	(2)Hard SKS3	(3)SKS3	(4)SUS304	(5)Hard SUS304	(6)SUS440C or 13Cr stainless				
LPSTA GLPSTA BLPSTA SLPSTA HLPSTA CLPSTA	M P G H	(m6) (p6) (g6) (h7)	1	3.0~10.0	0.5~10.0	15	0.1										
				2			3.0~20.0	0.5									
				3			3.0~25.0	1									
				4			4.0~30.0	1									
				5			4.0~30.0	1									
				6			5.0~40.0	1									
				8			5.0~40.0	1.5									
				10			5.0~40.0	2									

Tapped

Part Number	Type	D Tol.	D	L	E	A	M	Tightening Torque	ℓ	Unit Price								
										(1)Treated SKS3	(2)Hard SKS3	(4)SUS304	(5)Hard SUS304					
LPSTTA GLPSTTA SLPSTTA HLPSTTA	M P G H	(m6) (p6) (g6) (h7)	5	10.0~30.0	0.5~10.0	15	M2	-	3									
				6			10.0~40.0	M3	98	5								
				8			15.0~40.0	M5	461	8								
				10														

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

Alterations

Part Number	L	E	A
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.)

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.

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 or 13Cr stainless	-	Treated Hardness: 50~55HRC	CLPSQA	CLPSQTA

SUS440C or 13Cr stainless 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.

Press Fit
Tapped

Tolerance Selection

D	Standard Grade			
	M	P	G	H
1~3	+0.008 +0.002	+0.012 +0.006	-0.002 -0.008	0 -0.010
4~6	+0.012 +0.004	+0.020 +0.012	-0.004 -0.012	0 -0.012
8, 10	+0.015 +0.006	+0.024 +0.015	-0.005 -0.014	0 -0.015

Press Fit

Part Number	Type	D Tol.	D	L	C	Unit Price									
						(1)Treated SKS3	(2)Hard SKS3	(3)SKS3	(4)SUS304	(5)Hard SUS304	(6)SUS440C or 13Cr stainless				
LPSQA GLPSQA BLPSQA SLPSQA HLPSQA CLPSQA	M P G H	(m6) (p6) (g6) (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	1									
				5	4.0~30.0	1									
				6	5.0~40.0	1									
				8	5.0~40.0	1.5									
				10	5.0~40.0	2									

Tapped

Part Number	Type	D Tol.	D	L	M	Tightening Torque	ℓ	Unit Price								
								(1)Treated SKS3	(2)Hard SKS3	(3)SKS3	(4)SUS304	(5)Hard SUS304	(6)SUS440C or 13Cr stainless			
LPSQTA GLPSQTA BLPSQTA SLPSQTA HLPSQTA CLPSQTA	M P G H	(m6) (p6) (g6) (h7)	5	10.0~30.0	M2	-	3									
				6	10.0~40.0	M3	98	5								
				8	15.0~40.0	M5	461	8								
				10												

*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	Type	D Tol.	D	L
LPSQA	M	6	L14.0	
BLPSQTA	G	8	L29.3	

Alterations

Part Number	L
LPSQAP6	L18.5

Alterations	Insertion Guide	Air Vent	Dual Tolerance
Code	GDC	AC	DKM/DKP/DKG/DKH
Spec.	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.)