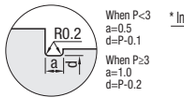
Locating Pins - Small Head, Round Tapered

Features: R on the joint area makes it easier to insert/extract compared to the tapered type.


(Buff Finished)

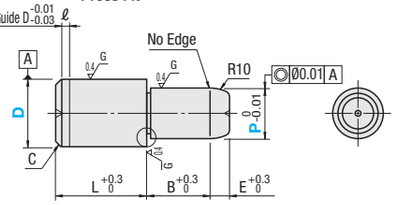
RoHS

Material No.	M Material	S Surface Treatment	H Hardness	Type		
				Press Fit (m6)	Press Fit (p6)	Tapped
①	SKS3 Equivalent	-	Treated Hardness: 60 ~ 63HRC	JPRSB	JPRSPB	JPRSTB
②	SKS3 Equivalent	Hard Chrome Plating Plating Thickness: 3μm or more	Treated Hardness: 50 ~ 55HRC Plating Hardness: 750HV ~	GJPRSB	GJPRSPB	-
③	SUS304	-	-	SJPRSB	SJPRSPB	SJPRSTB
④	SUS440C Equivalent	-	Treated Hardness: 50 ~ 55HRC	CJPRSB	CJPRSPB	-

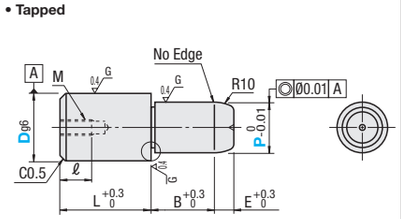


Relief dimension is a reference value.

• Press Fit



• Tapped



* The insertion guide is applicable to tolerance m6 and p6 type only.
SUS440C Equivalent has an identification groove at any position on D part.
Polished, centering hole is sometimes not available for SUS304.

Press Fit

Part Number Type	D	D dim. Tolerance m6	D dim. Tolerance p6	P Selection	L	B	C	ℓ	E	Unit Price ① JPRSB JPRSPB	② GJPRSB GJPRSPB	③ SJPRSB SJPRSPB	④ CJPRSB CJPRSPB
m6	p6	3	0.01	0	2 3	5	3	0.5	1	3				
		4	0.02	0	2 3 4									
		5			2 3 4 5	10	5	1						
		6			3 4 5 6					4				
JPRSB GJPRSB SJPRSB CJPRSB	JPRSPB GJPRSPB SJPRSPB CJPRSPB	8	0.02	0	4 5 6 8	15	6	1.5		5				
		10			6 8 10		8	2						
		12	0.03	0	8 10 12					6				
		13			12 13	22			2					
		16			12 13 14 15 16		10	3		7				
		20	0.03	0.1	15 16 20	30								

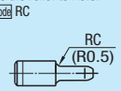
Tapped

Part Number Type	D	D dim. Tolerance g6	P Selection	L	B	E	M (Coarse)	* Tightening Torque N·cm	ℓ	Unit Price ① JPRSTB	③ SJPRSTB
JPRSTB SJPRSTB	6	-0.016	4 5 6	10	5	5	M3	147	5		
	6T		4 5 6				M2.6	-	4		
	8	-0.019	6 8	15	6		M4	333	6		
	8T		6 8				M3	147	5		
	10		8 10				M5	676	8		
	12	-0.023	8 10 12		8	6					
	13		12 13	22			M8	2803	12		
	16		12 13 14 15 16		10	7					
	20	-0.027	15 16 20	30							

Pins of D dimension with T have one size smaller thread diameter and larger wall thickness. (Actual D dimension is the number without "T".)
Note the strength of under-head part. P.1566 Please confirm pilot hole depth on P.1566. Holes 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 = Type + D + P → JPRSB 10 - 6

Alterations: Part Number + P + (RC) → JPRSB10 - 6 - RC

Alterations	Sphere Tip
Code	RC
Spec.	Changes the relief to R0.5. Ordering Code RC  Applicable when D-P≥2.

Locating Pins - Small Head, Round Tapered

D and P Tolerance, Taper R Selectable

Features: Small Head, Round Tapered, with each dimension configurable. Selectable tolerance on both ends and tapered dimensions.


(Buff Finished)

RoHS

Material No.	M Material	S Surface Treatment	H Hardness	Type	
				Press Fit	Tapped
①	SKS3 Equivalent	-	Treated Hardness: 60 ~ 63HRC	KFPSA	KFPST
②	SKS3 Equivalent	Hard Chrome Plating Plating Thickness: 3μm or more	Treated Hardness: 50 ~ 55HRC Plating Hardness: 750HV ~	GKFPSA	GKFPST
③	SUS304	-	-	SKFPSA	SKFPST
④	SUS440C Equivalent	-	Treated Hardness: 50 ~ 55HRC	CKFPSA	CKFPST
⑤	SKS3 Equivalent	Buffing	Treated Hardness: 60 ~ 63HRC	MKFPSA	MKFPST
⑥	SKS3 Equivalent	Hard Chrome Plating + Buffed Plating Thickness: 3μm or more	Treated Hardness: 50 ~ 55HRC Plating Hardness: 750HV ~	MGKFPSA	-
⑦	SUS440C Equivalent	Buffing	Treated Hardness: 50 ~ 55HRC	MCKFPSA	-

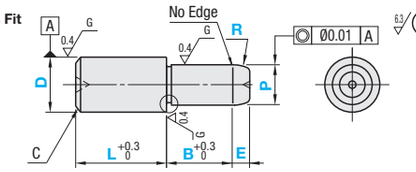
Relief dimension is a reference value.

Tolerance Selection

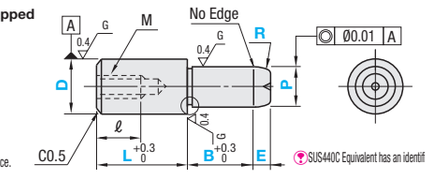
D or P	Standard Grade M	P	G	H	S	Precision Grade A	B
	m6	p6	g6	h7	-	-	-
2.00 ~ 3.00	+0.008 +0.002	+0.012 +0.006	-0.002 -0.008	0 -0.010	0 -0.01	+0.005 0	0 -0.005
3.01 ~ 6.00	+0.012 +0.004	+0.020 +0.012	-0.004 -0.012	0 -0.012			
6.01 ~ 10.00	+0.015 +0.006	+0.024 +0.015	-0.005 -0.014	0 -0.015			
10.01 ~ 18.00	+0.018 +0.007	+0.029 +0.018	-0.006 -0.017	0 -0.018			
18.01 ~ 20.00	+0.021 +0.008	+0.035 +0.022	-0.007 -0.020	0 -0.021			

The unit price of Precision Type is the price of Standard Type multiplied by 1.1.
Hard Chrome Plating and buffed products are not available for Precision Grade Tolerance.

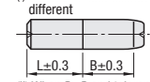
• Press Fit



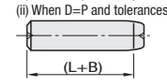
• Tapped



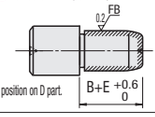
When D=P, no relief is applied.
(i) When D=P and tolerances are different



(ii) When D=P and tolerances are the same



Buffed at ▨ part only.



The boundary between B and E dimensions is indistinct.

SUS440C Equivalent has an identification groove at any position on D part.

Press Fit

Part Number Type	D Tol. Selection	P Tolerance Selection	D	P 0.01mm Increment	L 1mm Increment	B 0.5mm Increment	E 0.5mm Increment	R Selection	C	Unit Price ① KFPSA	② GKFPSA	③ SKFPSA	④ CKFPSA	⑤ MKFPSA	⑥ MGKFPSA	⑦ MCKFPSA
KFPSA GKFPSA * SKFPSA CKFPSA (Buff Finished) MKFPSA * MGKFPSA * MCKFPSA * Applicable when D≥5 and P≥5.	M P G H *A *B	S M P G H *A *B	3	2.00~3.00	3~8	2.0~10.0	1.0~15.0	5 10 15 20 25 30	0.5					-	-	-
			4	2.00~4.00	4~12	2.0~10.0			1					-	-	-
			5	2.00~5.00	5~12	2.0~10.0										
			6	2.00~6.00	5~12	3.0~12.0										
			8	3.00~8.00	8~15	3.0~14.0			1.5							
			10	3.00~10.00	8~15	3.0~16.0			2							
			12	5.00~12.00	10~18	3.0~18.0										
			13	6.00~13.00	12~20	3.0~20.0										
			16	10.00~16.00	14~25	3.0~20.0			3							
			20	13.00~20.00	18~32	3.0~20.0										

Configurable range depends on P dimension. Confirm "Details of E Dimension and R Dimension Range" in the table.
Hard Chrome Plating and buffed products are not available for * marked Precision Grade Tolerance.

Precision Grade Price When A, B tolerance is selected, multiply by 1.1 to the above unit price.
Example of Price Calculation: KFPSAAB10-P8.00-L8-B3.0-E3.0-R10

Tapped

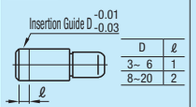
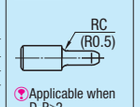
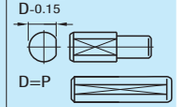
Part Number Type	D Tol. Selection	P Tolerance Selection	D	P 0.01mm Increment	L 1mm Increment	B 0.5mm Increment	E 0.5mm Increment	R Selection	M (Coarse)	* Tightening Torque N·cm	ℓ	Unit Price ① KFPST	② GKFPST	③ SKFPST	④ CKFPST	⑤ MKFPST
KFPST GKFPST SKFPST CKFPST (Buff Finished) MKFPST Applicable when P≥5.	M P G H	S M P G H	6	4.00~6.00	8~12	3.0~12.0	1.0~15.0	5 10 15 20 25 30	M3	147	5					
			6T						M2.6	-	4					
			8	6.00~8.00	11~16	3.0~14.0			M5	676	8					
			8T						M4	333	6					
			10	7.00~10.00	11~20	3.0~16.0			M5	676	8					
			10T		8~16				M4	333	6					
			12	7.00~12.00	12~24	3.0~18.0			M5	676	8					
			12T		8~18				M4	333	6					
			13	8.00~13.00	13~26	3.0~20.0			M8	2803	10					
			13T		10~20				M6	1156	9					
			16	10.00~16.00	16~32	3.0~20.0			M8	2803	12					
			16T		10~24				M6	1156	9					
			20	13.00~20.00	20~40	3.0~20.0			M8	2803	12					
			20T		12~30				M6	1156	9					

Pins of D dimension with T have one size smaller thread diameter and larger wall thickness. (Actual D dimension is the number without "T".)
Note the strength of under-head part. P.1566 Please confirm pilot hole depth on P. 1566. Holes 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.

Precision Grade PriceWhen A, B tolerance is selected, multiply by 1.1 to the above unit price.
Example of Price Calculation: KFPSAAB10-P8.00-L8-B3.0-E3.0-R10

Ordering Example: Part Number = Type + D Tol. + P Tolerance + D + P + L + B + E + R → MKFPSA M S 16 - P12.00 - L14 - B4.0 - E5.0 - R15

Alterations: Part Number + P + L + B + E + R + (GDC, RC, AC) → KFPSAMA12 - P7.00 - L10 - B3.0 - E3.0 - R10 - RC

Alterations	Insertion Guide	Sphere Tip	Air Vent
Code	GDC	RC	AC
Spec.	Adds the insertion guide. Ordering Code GDC  D: 3~6 ℓ=1; 8~20 ℓ=2	Changes the relief to R0.5. Ordering Code RC  Applicable when D-P≥2	Adds an air vent. Ordering Code AC 

Details of E and R Dimension Range

P 0.01mm Increment	E 0.5mm Increment	R Selection
2.00~4.00	1.0~2.0	5 10
4.01~8.00	2.5~4.0	10 15
8.01~12.00	4.5~7.0	10 15 20
12.01~16.00	5.0~10.0	15 20 25
16.01~20.00	5.0~15.0	20 25 30