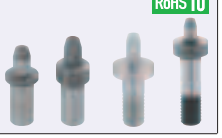


Locating Pins Shouldered

-Tapered - Shoulder Thickness Configurable-

☑D=5 is now available for Female Thread Type.

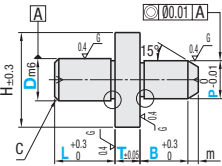


RoHS 10

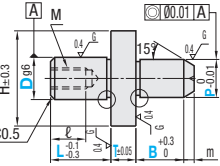
Material No.	Material	Surface Treatment	Hardness	Type	Standard	Female Thread	Male Thread	Shape Code
(1)	SKS3	-	Treated Hardness 60 ~ 63HRC	FPJ	FPJ	FPJ	FPN	AT (Round) DT (Diamond)
(2)	SKS3	Hard Chrome Plating Plating Thickness 3um or More	Treated Hardness 60 ~ 63HRC Plating Hardness 750HV~	GFPJ	GFPJ	GFPJ	GFPN	
(3)	SUS304	-	-	SFPJ	SFPJ	SFPJ	SFPN	
(4)	SUS304	Hard Chrome Plating Plating Thickness 3um or More	Plating Hardness 750HV~	HFPJ	HFPJ	HFPJ	HFPN	
(5)	SUS440C Equivalent	-	Treated Hardness 50 ~ 55HRC	CFPJ	CFPJ	CFPJ	CFPN	

☑Refer to the price list to select the available combination. ☑SUS440C has an identification groove on D part.

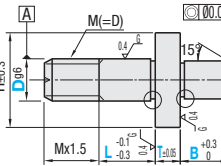
-Standard



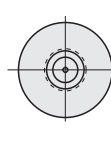
-Female Thread



-Male Thread



(Round)



(Diamond)



When P<3,
a=0.5
d=P-0.1
When P≥3,
a=1.0
d=P-0.2

Standard									
Part Number		D	P	L	B	T	H	C	m (W)
Type	Shape	D	0.01mm Increment	1mm Increment	0.1mm Increment	0.5mm Increment			
FPJ GFPJ SFPJ HFPJ CFPJ	AT (Round) DT (Diamond)	2	+0.008	1.00-2.00	2-4	2.0-10.0	7	0.5	0.5
		3	+0.002	2.00-4.00	3-6	2.0-10.0	8	1	1.0
		4		2.00-5.00	4-8	2.0-10.0	9		1.2
		5	+0.012	3.00-6.00	5-10	2.0-10.0	10	1	1.5
		6	+0.004	4.00-7.00	6-12	2.0-12.0	11	2	1.8
		8	+0.015	5.00-9.00	8-16	2.0-15.0	13	1.5	2.2
		10	+0.006	7.00-11.00	10-20	3.0-20.0	15	3	3
		12		7.00-12.00	12-24	3.0-20.0	17	2	3.2
		13	+0.018	8.00-13.00	13-26	5.0-20.0	18		3.5
		16	+0.007	13.00-16.00	16-32	5.0-20.0	21	4	4
		20	+0.021	16.00-20.00	20-40	5.0-20.0	25	5	5.5

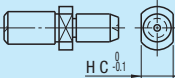
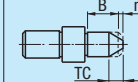
Female Thread									
Part Number		D	P	L	B	T	H	m	(W) M
Type	Shape	D	0.01mm Increment	1mm Increment	0.1mm Increment	0.5mm Increment			
FPU GFPU SFPU HFPU CFPU	AT (Round) DT (Diamond)	5	-0.004	3.00-6.00	7-10	2.0-10.0	10	2	1.5 M2
		6	-0.012	4.00-7.00	6 (9) - 12	2.0-10.0	11	1.8	M3 5
		8	-0.005	5.00-9.00	8 (12) - 16	2.0-12.0	13	2.2	
		10	-0.014	7.00-11.00	10 (12) - 20	2.0-15.0	15	3	M5 8
		12		7.00-12.00	12-24	3.0-20.0	17	3.2	
		13	-0.006	8.00-13.00	13 (14) - 26	3.0-20.0	18	4	3.5
		16	-0.017	13.00-16.00	16-32	5.0-20.0	21	4	M8 10
		20	-0.007	16.00-20.00	20-40	5.0-20.0	25	5	5.5
			-0.020						

☑L dimension in () is for the Diamond Type. ☑Note the strength of under-head part. ☑P1281 ☑Please confirm pilot hole depth on ☑P1281 Holes may go through.

Male Thread									
Part Number		D	P	L	B	T	H	m	(W)
Type	Shape	D	0.01mm Increment	1mm Increment	0.1mm Increment	0.5mm Increment			
FPN GFPN SFPN HFPN CFPN	AT (Round) DT (Diamond)	3	-0.002	2.00-4.00	2-6	2.0-10.0	8	1	1.0
		4		2.00-5.00	2-8	2.0-10.0	9		1.2
		5	-0.004	3.00-6.00	3-10	2.0-10.0	10	1	1.5
		6	-0.012	4.00-7.00	3-10	2.0-12.0	11	2	1.8
		8	-0.005	5.00-9.00	5-10	2.0-15.0	13		2.2
		10	-0.014	7.00-11.00	5-15	3.0-20.0	15	3	3
		12	-0.006	7.00-12.00	8-15	3.0-20.0	17		3.2
		16	-0.017	13.00-16.00	8-20	5.0-20.0	21	4	4
		20	-0.007	16.00-20.00	10-20	5.0-20.0	25	5	5.5
			-0.020						

Order Example: Part Number - P - L - B - T
FPJ AT 10 - P8.03 - L10 - B4.0 - T5

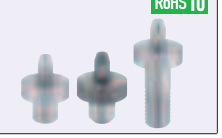
Alterations: Part Number - P - L - B - T - (HC / TC / RC / TKC)
FPJAT8 - P8.03 - L9 - B6.3 - T8.5 RC

Alterations	Width Across Flats	Length of Tapered Point	Radius	Shoulder Thickness Tolerance																														
Code	HC	TC	RC	TKC																														
Spec.	 HC=0.5mm Increment ☑HC>DHC>P (Ordering Code) HC10.0	Changes the m dimension (Ordering Code) TC8 (1mm Increment)  <table><tr><th>D</th><th>TC</th><th>D</th><th>TC</th><th>D</th><th>TC</th></tr><tr><td>2</td><td>1</td><td>6</td><td>3-11</td><td>13</td><td>5-22</td></tr><tr><td>3</td><td>2-5</td><td>8</td><td>4-14</td><td>16</td><td></td></tr><tr><td>4</td><td>2-7</td><td>10</td><td>4-18</td><td>20</td><td>6-23</td></tr><tr><td>5</td><td>3-9</td><td>12</td><td>4-20</td><td></td><td></td></tr></table> ☑B+m>TC+2 (Straight Part min. 2mm) ☑Applicable when P≥2.00. ☑P/2-TCtan15°(=0.27)>0.5 (Tip Ø1.0min.) ☑B Dimension changes when TC is specified. (Changed B dimension = B+m-TC)	D	TC	D	TC	D	TC	2	1	6	3-11	13	5-22	3	2-5	8	4-14	16		4	2-7	10	4-18	20	6-23	5	3-9	12	4-20			Changes the relief to R0.5. (Ordering Code) RC  ☑Applicable when H-P≥2.	Changes shoulder thickness tolerance T±0.05 to T^{+0.02}. (Ordering Code) TKC
	D	TC	D	TC	D	TC																												
2	1	6	3-11	13	5-22																													
3	2-5	8	4-14	16																														
4	2-7	10	4-18	20	6-23																													
5	3-9	12	4-20																															

Locating Pins Shouldered

-Tapered - Shoulder Diameter and Thickness Configurable-

☑D=5 is now available for Female Thread Type.

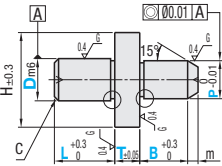


RoHS 10

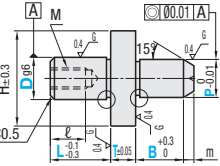
Material No.	Material	Surface Treatment	Hardness	Type	Standard	Female Thread	Male Thread	Shape Code
(1)	SKS3	-	Treated Hardness 60 ~ 63HRC	FPJ	FPJ	FPJ	FPN	ATD (Round) DTD (Diamond)
(2)	SKS3	Hard Chrome Plating Plating Thickness 3um or More	Treated Hardness 60 ~ 63HRC Plating Hardness 750HV~	GFPJ	GFPJ	GFPJ	GFPN	
(3)	SUS304	-	-	SFPJ	SFPJ	SFPJ	SFPN	
(4)	SUS304	Hard Chrome Plating Plating Thickness 3um or More	Plating Hardness 750HV~	HFPJ	HFPJ	HFPJ	HFPN	
(5)	SUS440C Equivalent	-	Treated Hardness 50 ~ 55HRC	CFPJ	CFPJ	CFPJ	CFPN	

☑Refer to the price list to select the available combination. ☑SUS440C Equivalent has an identification groove on D part.

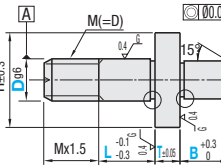
-Standard



-Female Thread



-Male Thread



(Round)



(Diamond)



When P<3,
a=0.5
d=P-0.1
When P≥3,
a=1.0
d=P-0.2

Standard									
Part Number		D	P	L	B	T	H	C	m (W)
Type	Shape	D	0.01mm Increment	1mm Increment	0.1mm Increment	0.5mm Increment			
FPJ GFPJ SFPJ HFPJ CFPJ	ATD (Round) DTD (Diamond)	2	+0.008	1.00-2.00	2-4	2.0-10.0		0.5	0.5
		3	+0.002	2.00-4.00	3-6	2.0-10.0		1	1.0
		4		2.00-5.00	4-8	2.0-10.0			1.2
		5	+0.012	3.00-6.00	5-10	2.0-10.0		1	1.5
		6	+0.004	4.00-7.00	6-12	2.0-12.0		2	1.8
		8	+0.015	5.00-9.00	8-16	2.0-15.0		1.5	2.2
		10	+0.006	7.00-11.00	10-20	3.0-20.0		3	3
		12		7.00-12.00	12-24	3.0-20.0		2	3.2
		13	+0.018	8.00-13.00	13-26	5.0-20.0			3.5
		16	+0.007	13.00-16.00	16-32	5.0-20.0		4	4
		20	+0.021	16.00-20.00	20-40	5.0-20.0		5	5.5

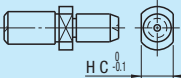
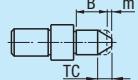
Female Thread									
Part Number		D	P	L	B	T	H	m	(W) M
Type	Shape	D	0.01mm Increment	1mm Increment	0.1mm Increment	0.5mm Increment			
FPU GFPU SFPU HFPU CFPU	ATD (Round) DTD (Diamond)	5	-0.004	3.00-6.00	7-10	2.0-10.0		2	1.5 M2
		6	-0.012	4.00-7.00	6 (9) - 12	2.0-10.0		1.8	M3 5
		8	-0.005	5.00-9.00	8 (12) - 16	2.0-12.0		2.2	
		10	-0.014	7.00-11.00	10 (12) - 20	2.0-15.0		3	M5 8
		12		7.00-12.00	12-24	3.0-20.0		3.2	
		13	-0.006	8.00-13.00	13 (14) - 26	3.0-20.0		3.5	10
		16	-0.017	13.00-16.00	16-32	5.0-20.0		4	M8 12
		20	-0.007	16.00-20.00	20-40	5.0-20.0		5	5.5
			-0.020						

☑L dimension in () is for the Diamond Type. ☑Note the strength of under-head part. ☑P1281 ☑Please confirm pilot hole depth on ☑P1281 Holes may go through.

Male Thread									
Part Number		D	P	L	B	T	H	m	(W)
Type	Shape	D	Specify in 0.01mm Increment	Specify in 1mm Increment	Specify in 0.1mm Increment	0.1mm Increment	0.5mm Increment		
FPN GFPN SFPN HFPN CFPN	ATD (Round) DTD (Diamond)	3	-0.002	2.00-4.00	2-6	2.0-10.0		1	1.0
		4		2.00-5.00	2-8	2.0-10.0			1.2
		5	-0.004	3.00-6.00	3-10	2.0-10.0		1	1.5
		6	-0.012	4.00-7.00	3-10	2.0-12.0		2	1.8
		8	-0.005	5.00-9.00	5-10	2.0-15.0			2.2
		10	-0.014	7.00-11.00	5-15	3.0-20.0		3	3
		12	-0.006	7.00-12.00	8-15	3.0-20.0			3.2
		16	-0.017	13.00-16.00	8-20	5.0-20.0		4	4
		20	-0.007	16.00-20.00	10-20	5.0-20.0		5	5.5
			-0.020						

Order Example: Part Number - P - L - B - T - H
FPJ ATD 12 - P9.98 - L15 - B5.5 - T12 - H13

Alterations: Part Number - P - L - B - T - H - (HC / TC / RC / TKC)
GFPJATD12 - P8.50 - L20 - B10.0 - T13.0 - H16.5 RC

Alterations	Width Across Flats	Length of Tapered Point	Radius	Shoulder Thickness Tolerance																														
Code	HC	TC	RC	TKC																														
Spec.	 HC=0.5mm Increment ☑HC>DHC>P (Ordering Code) HC10.0	Changes the m dimension (Ordering Code) TC8 (1mm Increment)  <table><tr><th>D</th><th>TC</th><th>D</th><th>TC</th><th>D</th><th>TC</th></tr><tr><td>2</td><td>1</td><td>6</td><td>3-11</td><td>13</td><td>5-22</td></tr><tr><td>3</td><td>2-5</td><td>8</td><td>4-14</td><td>16</td><td></td></tr><tr><td>4</td><td>2-7</td><td>10</td><td>4-18</td><td>20</td><td>6-23</td></tr><tr><td>5</td><td>3-9</td><td>12</td><td>4-20</td><td></td><td></td></tr></table> ☑B+m>TC+2 (Straight Part min. 2mm) ☑Applicable when P≥2.00. ☑P/2-TCtan15°(=0.27)>0.5 (Tip Ø1.0min.) ☑B Dimension changes when TC is specified. (Changed B dimension = B+m-TC)	D	TC	D	TC	D	TC	2	1	6	3-11	13	5-22	3	2-5	8	4-14	16		4	2-7	10	4-18	20	6-23	5	3-9	12	4-20			Changes the relief to R0.5. (Ordering Code) RC  ☑Applicable when H-P≥2.	Changes shoulder thickness tolerance T±0.05 to T+^{+0.02}. (Ordering Code) TKC
	D	TC	D	TC	D	TC																												
2	1	6	3-11	13	5-22																													
3	2-5	8	4-14	16																														
4	2-7	10	4-18	20	6-23																													
5	3-9	12	4-20																															