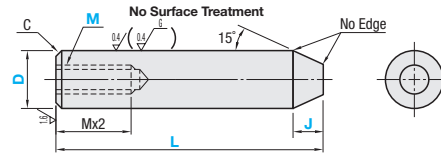


Shafts

One End Tapered, One End Tapped / One End Stepped and Tapped / One End Threaded



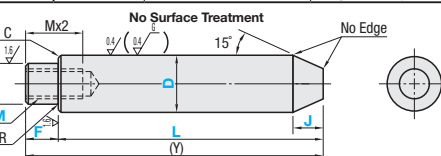
Type		Material	Hardness	Surface Treatment	D Tol.			
D Tol. g6	D Tol. h5				D	g6	h5	
SFTF	SFLU	SUJ2 Equivalent	Effective Hardened Depth of Induction Hardening \geq P.112	-	6	-0.004	0	12
SSFTF	SSFLU	SUS440C or 13Cr stainless	SUJ2 Equivalent	-	8	-0.005	0	13
PSFTF	PSFLU	SUJ2 Equivalent	SUJ2 Equivalent 58HRC~	Hard Chrome Plating Plating Hardness: HV750 - Plating Thickness: 5 μ or More ~	10	-0.014	0	15
PSSFTF	PSSFLU	SUS440C or 13Cr stainless	SUS440C or 13Cr stainless 56HRC~	-	18	-0.007	0	20
						-0.020	0	-0.008



⚠ Hardness of J+10 area will be lower due to annealing required for machining.
 ⚠ Case hardening and plating layers do not remain on the tapered area.
 ⚠ L Dimension Tolerance, Circularity, Straightness, Perpendicularity, Concentricity and Changes in Hardness \geq P.111
 ⚠ Annealing may lower hardness at shaft end machined areas (effective thread length + approx. 10mm).



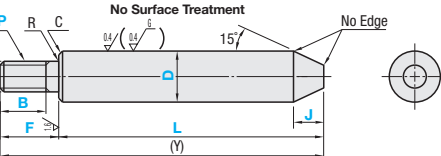
Type		Material	Hardness	Surface Treatment	D Tol.			
D Tol. g6	D Tol. h5				D	g6	h5	
SFTG	SFJU	SUJ2 Equivalent	Effective Hardened Depth of Induction Hardening \geq P.112	-	6	-0.004	0	12
SSFTG	SSFJU	SUS440C or 13Cr stainless	SUJ2 Equivalent	-	8	-0.005	0	13
PSFTG	PSFJU	SUJ2 Equivalent	SUJ2 Equivalent 58HRC~	Hard Chrome Plating Plating Hardness: HV750 - Plating Thickness: 5 μ or More ~	10	-0.014	0	15
PSSFTG	PSSFJU	SUS440C or 13Cr stainless	SUS440C or 13Cr stainless 56HRC~	-	18	-0.007	0	20
						-0.020	0	-0.008



⚠ Hardness of J+10 area will be lower due to annealing required for machining.
 ⚠ Case hardening and plating layers do not remain on the tapered area.
 ⚠ L Dimension Tolerance, Circularity, Straightness, Perpendicularity, Concentricity and Changes in Hardness \geq P.111
 ⚠ Annealing may lower hardness at shaft end machined areas (effective thread length + approx. 10mm).



Type		Material	Hardness	Surface Treatment	D Tol.			
D Tol. g6	D Tol. h5				D	g6	h5	
SFTN	SFKU	SUJ2 Equivalent	Effective Hardened Depth of Induction Hardening \geq P.112	-	6	-0.004	0	12
SSFTN	SSFKU	SUS440C or 13Cr stainless	SUJ2 Equivalent	-	8	-0.005	0	13
PSFTN	PSFKU	SUJ2 Equivalent	SUJ2 Equivalent 58HRC~	Hard Chrome Plating Plating Hardness: HV750 - Plating Thickness: 5 μ or More ~	10	-0.014	0	15
PSSFTN	PSSFKU	SUS440C or 13Cr stainless	SUS440C or 13Cr stainless 56HRC~	-	18	-0.007	0	20
						-0.020	0	-0.008



⚠ Hardness of J+10 area will be lower due to annealing required for machining.
 ⚠ Case hardening and plating layers do not remain on the tapered area.
 ⚠ L Dimension Tolerance, Circularity, Straightness, Perpendicularity, Concentricity and Changes in Hardness \geq P.111
 ⚠ Annealing may lower hardness at shaft end machined areas (effective thread length + approx. 10mm).

Part Number Type	D	1mm Increment			M (Coarse) Selection				C	
		L	J							
(D Tolerance g6) (D Tolerance h5) SFTF SFLU SSFTF SSFLU PSFTF PSFLU PSSFTF PSSFLU	6	25~200	5~7	3					0.5 or Less	
	8	25~200	5~10	3	4	5				
	10	30~200	5~14	3	4	5	6			
	12	40~300	5~18	4	5	6	8			
	13	40~300	5~20	4	5	6	8			
	15	50~300	10~24	4	5	6	8			
	16	50~500	10~25	4	5	6	8	10		
	18	60~500	10~28	4	5	6	8	10		12
	20	60~500	10~32	4	5	6	8	10		12
					4	5	6	8		10

⚠ L requires L-J \geq 20.

Part Number Type	D	L	1mm Increment			M (Coarse) Selection				(Y) Max.	R	C		
			F	P	J									
(D Tolerance g6) (D Tolerance h5) SFTG SFJU SSFTG SSFJU PSFTG PSFJU PSSFTG PSSFJU	8	25~198	2 \leq F \leq P \times 4	6	5~10	3				200	0.3 or Less	0.5 or Less		
	10	30~198		6~8	5~14	3	4	5		200				
	12	40~298		6~10	5~18	3	4	5	6				300	
	13	40~298		6~11	5~20	3	4	5	6	8			300	
	15	50~298		6~13	10~24	3	4	5	6	8			10	300
	16	50~498		6~14	10~25	3	4	5	6	8			10	500
	18	60~498		8~16	10~28	4	5	6	8	10			12	500
	20	60~498		8~17	10~32	4	5	6	8	10			12	500
						4	5	6	8	10			12	500
						4	5	6	8	10			12	500

⚠ P dimensions require M+3 \leq P. ⚠ L requires L-J \geq 20.

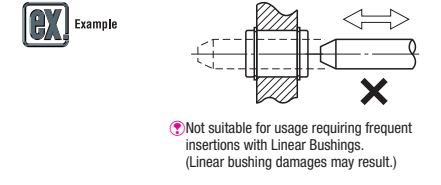
Part Number Type	D	1mm Increment			P Selection				1mm Increment J	(Y) Max.	R	C	
		L	F	B									
(D Tolerance g6) (D Tolerance h5) SFTN SFKU SSFTN SSFKU PSFTN PSFKU PSSFTN PSSFKU	6	25~198	2 \leq F \leq P \times 5	B \leq F-2 (When P \leq 6) B \leq F-3 (When P=8, 10) B \leq F-5 (When P \geq 12) B=0 (W/o Threads)	3	4	5	6	5~7	200	0.3 or Less	0.5 or Less	
	8	25~198			3	4	5	6	8	5~10			200
	10	30~198			4	5	6	8	10	5~14			200
	12	40~298			5	6	8	10	12	5~18			300
	13	40~298			5	6	8	10	12	5~20			300
	15	50~298			5	6	8	10	12	10~24			300
	16	50~498			5	6	8	10	12	10~25			500
	18	60~498			5	6	8	10	12	10~28			500
	20	60~498			5	6	8	10	12	10~32			500
					5	6	8	10	12	16			20

⚠ When D=P, specify F=B as B dimensions. However, L and F dimensions have manufacturing priority and B dimension of the product will be F - (Pitch \times 2).
 ⚠ Thread machining will not be applied when B=0 is specified. ⚠ L requires L-J \geq 20. ⚠ B: Pitch \times 3 is required.

Ordering Example
 Part Number - L - J - M
 SFTF20 - 350 - J15 - M6

One End Tapered, One End Stepped and Tapped
 Part Number - L - F - P - J - M
 SFTG20 - 350 - F25 - P16 - J10 - M8

One End Tapered, One End Threaded
 Part Number - L - F - B - P - J
 SFTN20 - 350 - F40 - B30 - P10 - J10



Part Number Type	D	Unit Price						
		Min. L-50	L51-100	L101-150	L151-200	L201-300	L301-400	L401-500
SFTF SFLU	6							
	8							
	10							
	12							
	13							
	15							
SSFTF SSFLU	6							
	8							
	10							
	12							
	13							
	15							

Part Number Type	D	Unit Price						
		Min. L-50	L51-100	L101-150	L151-200	L201-300	L301-400	L401-500
PSFTF PSFLU	8, 10							
	12, 13							
	15							
	16							
	18, 20							
	6, 8, 10							
PSSFTF PSSFLU	12, 13							
	15							
	16							
	18, 20							
	6, 8, 10							
	12, 13							

Part Number Type	D	Unit Price						
		Min. L-50	L51-100	L101-150	L151-200	L201-300	L301-400	L401-498
SFTG SFJU	8, 10							
	12							
	13							
	15							
	16							
	18, 20							
SSFTG SSFJU	8, 10							
	12, 13							
	15							
	16							
	18, 20							
	8, 10							

Part Number Type	D	Unit Price						
		Min. L-50	L51-100	L101-150	L151-200	L201-300	L301-400	L401-498
PSFTG PSFJU	8, 10							
	12, 13							
	15							
	16							
	18, 20							
	8, 10							
PSSFTG PSSFJU	12, 13							
	15							
	16							
	18, 20							
	8, 10							
	12, 13							

Part Number Type	D	Unit Price						
		Min. L-50	L51-100	L101-150	L151-200	L201-300	L301-400	L401-498
SFTN SFKU	6, 8, 10							
	12							
	13							
	15							
	16							
	18, 20							
SSFTN SSFKU	6, 8, 10							
	12, 13							
	15							
	16							
	18, 20							
	6, 8, 10							

Part Number Type	D	Unit Price						
		Min. L-50	L51-100	L101-150	L151-200	L201-300	L301-400	L401-498
PSFTN PSFKU	8, 10							
	12, 13							
	15							
	16							
	18, 20							
	6, 8, 10							
PSSFTN PSSFKU	12, 13							
	15							
	16							
	18, 20							
	6, 8, 10							
	12, 13							

Alterations
 One End Tapered, One End Tapped
 Part Number - L - J - M - (LKC, SC)
 SFTF20 - 350 - J15 - M6 - LKC
 One End Tapered, One End Stepped and Tapped
 Part Number - L - F - P - J - M - (SC)
 SFTG20 - 350 - F25 - P16 - J10 - M8 - SC5
 One End Tapered, One End Threaded
 Part Number - L - F - B - P - J - (SC)
 SFTN20 - 350 - F40 - B30 - P10 - J10 - SC5

Alterations	Alteration to L dimension tolerance		Wrench Flats	
	LKC	SC	SC	SC
Spec.	Changes L tolerance. Ordering Code LKC ⚠ L<200 \rightarrow L \pm 0.03 200 \leq L<500 \rightarrow L \pm 0.05	Changes L tolerance. Ordering Code SC5 ⚠ SC=1mm Increment ⚠ SC+ ϵ 1 \leq L-J SC=0	Adds wrench flats. Ordering Code SC5 ⚠ SC=1mm Increment ⚠ SC+	