

Shafts

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

■ One End Tapered, One End Tapped

RoHS 10

Type	D Tol. g6	D Tol. h5	Material	Hardness	Surface Treatment
SFTF	SFLU	EN 1.3505 Equiv.	Effective Hardened Depth of Induction Hardening P.112		
SSFTF	SSFLU	EN 1.4037 Equiv.	EN 1.4037 Equiv. 58HRC~	Hard Chrome Plating	Plating Hardness: HV750 ~
PSFTF	PSFLU	EN 1.3505 Equiv.	EN 1.3505 Equiv. 58HRC~	Plating Thickness: 5µ or More ~	
PSSFTF	PSSFLU	EN 1.4037 Equiv.	EN 1.4037 Equiv. 56HRC~		

No Surface Treatment

15°

No Edge

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 **P.111**

Annealing may lower hardness at shaft end machined areas (effective thread length + approx. 10mm).

■ One End Tapered, One End Stepped and Tapped

RoHS 10

Type	D Tol. g6	D Tol. h5	Material	Hardness	Surface Treatment
SFTG	SFJU	EN 1.3505 Equiv.	Effective Hardened Depth of Induction Hardening P.112		
SSFTG	SSFJU	EN 1.4037 Equiv.	EN 1.4037 Equiv. 58HRC~	Hard Chrome Plating	Plating Hardness: HV750 ~
PSFTG	PSFJU	EN 1.3505 Equiv.	EN 1.3505 Equiv. 58HRC~	Plating Thickness: 5µ or More ~	
PSSFTG	PSSFJU	EN 1.4037 Equiv.	EN 1.4037 Equiv. 56HRC~		

No Surface Treatment

15°

No Edge

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 **P.111**

Annealing may lower hardness at shaft end machined areas (effective thread length + approx. 10mm).

■ One End Tapered, One End Threaded

RoHS 10

Type	D Tol. g6	D Tol. h5	Material	Hardness	Surface Treatment
SFTN	SFKU	EN 1.3505 Equiv.	Effective Hardened Depth of Induction Hardening P.112		
SSFTN	SSFKU	EN 1.4037 Equiv.	EN 1.4037 Equiv. 58HRC~	Hard Chrome Plating	Plating Hardness: HV750 ~
PSFTN	PSFKU	EN 1.3505 Equiv.	EN 1.3505 Equiv. 58HRC~	Plating Thickness: 5µ or More ~	
PSSFTN	PSSFKU	EN 1.4037 Equiv.	EN 1.4037 Equiv. 56HRC~		

No Surface Treatment

15°

No Edge

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 **P.111**

Annealing may lower hardness at shaft end machined areas (effective thread length + approx. 10mm).

Part Number		1mm Increment			M (Coarse) Selection			C
Type	D	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	
	13	40~300	5~20		4	5	6	
	15	50~300	10~24		4	5	6	
	16	50~500	10~25		4	5	6	
	18	60~500	10~28		4	5	6	
	20	60~500	10~32		4	5	6	
								1.0 or Less

⚠ L requires L-J≥20.

One End Tapered, One End Stepped and Tapped

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

⚠ P dimensions require M+3≤P. ⚠ L requires L-J≥20.

One End Tapered, One End Threaded

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

⚠ 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×2).

⚠ Thread machining will not be applied when B=0 is specified. ⚠ L requires L-J≥20. ⚠ B=Pitch×3 is required.

Ordering Example

■ One End Tapered, One End Tapped

Part Number - L - J - M

SFTF20 - 350 - J15 - M6

■ One End Tapered, One End Stepped and Tapped

Part Number - L - F - P - J - M

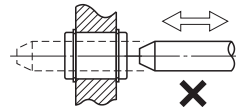
SFTG20 - 350 - F25 - P16 - J10 - M8

■ One End Tapered, One End Threaded

Part Number - L - F - B - P - J

SFTN20 - 350 - F40 - B30 - P10 - J10

Example



⚠ Not suitable for usage requiring frequent insertions with Linear Bushings. (Linear bushing damages may result.)

One End Tapered, One End Tapped

Part Number		Unit Price							
Type	D	Min. L-50	L51~100	L101~150	L151~200	L201~300	L301~400	L401~500	
SFTF SFLU	6								
	8								
	10								
	12								
	13								
	15								
	16								
	18, 20								
SSFTF SSFLU	6								
	8								
	10								
	12								
	13								
	15								
	16								
	18, 20								

One End Tapered, One End Stepped and Tapped

Part Number		Unit Price							
Type	D	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								

One End Tapered, One End Threaded

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

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

	Alteration to L dimension tolerance	Wrench Flats																									
Alterations																											
Code	LKC	SC																									
Spec.	Changes L tolerance. Ordering Code LKC ⚠ L<200→L±0.03 200≤L<500 →L±0.05 L=500→L±0.1 ⚠ L dimensions can be specified in 0.1mm increment for LKC. ⊗ Not applicable to D=P. ⊗ Not Applicable to One End Stepped and Tapped One End Threaded Type.	Adds wrench flats. Ordering Code SC5 ⚠ SC=1mm Increment ⚠ SC+1≤L-J SC≥0 <table><tr><th>D</th><th>W</th><th>1</th></tr><tr><td>6</td><td>5</td><td rowspan="3">8</td></tr><tr><td>8</td><td>7</td></tr><tr><td>10</td><td>8</td></tr><tr><td>12</td><td>10</td><td rowspan="5">10</td></tr><tr><td>13</td><td>11</td></tr><tr><td>15</td><td>13</td></tr><tr><td>16</td><td>14</td></tr><tr><td>18</td><td>16</td></tr><tr><td>20</td><td>17</td><td></td></tr></table>		D	W	1	6	5	8	8	7	10	8	12	10	10	13	11	15	13	16	14	18	16	20	17	
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12	10	10																									
13	11																										
15	13																										
16	14																										
18	16																										
20	17																										

⚠ Alterations may lower hardness. See **P.112**