

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	SUJ2	Effective Hardened Depth of Induction Hardening $\geq$ P.112		
SSFTF	SSFLU	SUS440C Equivalent	SUJ2	58HRC~	Hard Chrome Plating
PSFTF	PSFLU	SUJ2	SUS440C Equivalent	56HRC~	Plating Hardness: HV750 ~
PSSFTF	PSSFLU	SUS440C Equivalent	SUS440C Equivalent	56HRC~	Plating Thickness: 5µ or More ~

No Surface Treatment

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 $\geq$ 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	SUJ2	Effective Hardened Depth of Induction Hardening $\geq$ P.112		
SSFTG	SSFJU	SUS440C Equivalent	SUJ2	58HRC~	Hard Chrome Plating
PSFTG	PSFJU	SUJ2	SUS440C Equivalent	56HRC~	Plating Hardness: HV750 ~
PSSFTG	PSSFJU	SUS440C Equivalent	SUS440C Equivalent	56HRC~	Plating Thickness: 5µ or More ~

No Surface Treatment

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 $\geq$ 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	SUJ2	Effective Hardened Depth of Induction Hardening $\geq$ P.112		
SSFTN	SSFKU	SUS440C Equivalent	SUJ2	58HRC~	Hard Chrome Plating
PSFTN	PSFKU	SUJ2	SUS440C Equivalent	56HRC~	Plating Hardness: HV750 ~
PSSFTN	PSSFKU	SUS440C Equivalent	SUS440C Equivalent	56HRC~	Plating Thickness: 5µ or More ~

No Surface Treatment

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 $\geq$ P.111

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

One End Tapered, One End Tapped

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

L requires L-J $\geq$ 20.

One End Tapered, One End Stepped and Tapped

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

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

One End Tapered, One End Threaded

Part Number	D	1mm Increment	P Selection	1mm Increment	(Y) Max.	R	C
Type	D	L	F	B	J		
(D Tolerance g6)	6	25~198		B $\leq$ F-2	5~7	200	
(D Tolerance h5)	8	25~198		(When P $\leq$ 6)	5~10	200	
SFTN	SFKU	10	30~198	B $\leq$ F-3	5~14	200	
SSFTN	SSFKU	12	40~298	(When P=8, 10)	5~18	300	
PSFTN	PSFKU	13	40~298	B $\leq$ F-5	5~20	300	
PSSFTN	PSSFKU	15	50~298	(When P $\geq$ 12)	10~24	300	
	16	50~498		B=0	10~25	500	
	18	60~498		(W/o Threads)	10~28	500	
	20	60~498			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 -(Pitchx2).

Thread machining will not be applied when B=0 is specified. L requires L-J $\geq$ 20. B $\geq$ Pitchx3 is required.



One End Tapered, One End Tapped

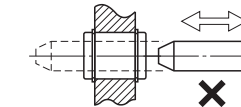
Part Number	L	J	M
SFTF20	- 350	- J15	- M6

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



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

One End Tapered, One End Tapped

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

One End Tapered, One End Stepped and Tapped

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

One End Tapered, One End Threaded

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



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
Code	LKC	SC
Spec.	Changes L tolerance. Ordering Code LKC L<200 L $\pm$ 0.03 200 $\leq$ L<500 L $\pm$ 0.05 L=500 L $\pm$ 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 $\leq$ L-J SC=0 D W E1 6 5 8 10 7 8 12 10 10 13 11 10 15 13 10 16 14 10 18 16 10 20 17 10

Alterations may lower hardness. See P.112