

Shafts

One End Threaded with O.D. same as Shaft O.D.

For One End Threaded Shafts with different diameters, see [P.163](#).



RoHS10

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

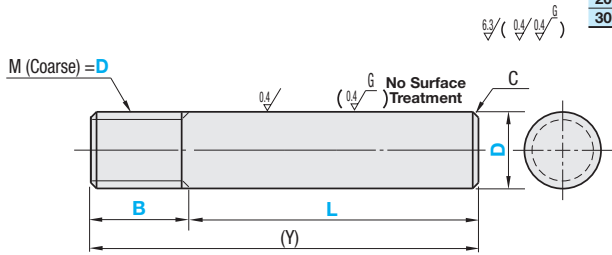
[P.112](#)

L Dimension Tolerance, Circularity, Straightness, Perpendicularity, Concentricity and Changes in Hardness [P.111](#)

Features of LTBC Plating [P.128](#)

Type			Material	Hardness	Surface Treatment
D Tol. g6	D Tol. h5	D Tol. f8			
SFAQ	SFUQ	-	EN 1.3505 Equiv.	Effective Hardened Depth of Induction Hardening P.112	Hard Chrome Plating Plating Hardness: HV750 ~ Plating Thickness: 5μ or More
SSFAQ	SSFUQ	-	EN 1.4037 Equiv.		
PSFAQ	PSFUQ	-	EN 1.3505 Equiv.		
PSSFAQ	PSSFUQ	-	EN 1.3505 Equiv. EN 1.4037 Equiv.		
RSFAQ	-	-	EN 1.3505 Equiv.	-	LTBC Plating
-	-	PSFGQ	EN 1.1191 Equiv.		Hard Chrome Plating Plating Hardness: HV750 ~ Plating Thickness: 10μ or More
-	-	PSSFGQ	EN 1.4301 Equiv.		

D Tol.			
D	g6	h5	f8
3	-0.002 -0.008	0 -0.004	-
4	-	-	-
5	-0.004 -0.012	0 -0.005	-0.010 -0.028
6	-	-	-
8	-0.005 -0.014	0 -0.006	-0.013 -0.035
10	-	-	-
12	-0.006 -0.017	0 -0.008	-0.016 -0.043
16	-	-	-
20	-0.007 -0.020	0 -0.009	-0.020 -0.053
30	-	-	-



L does not include incomplete threads.

Part Number		1mm Increment			M	(Y) Max.	C
Type	D	L	B				
(D Tolerance g6)	(D Tolerance h5)	3	25~197	3~15	3	200	0.2 or Less
SFAQ	SFUQ	4	25~296	4~20	4	300	
SSFAQ	SSFUQ	5	25~396	4~25	5	400	
PSFAQ	PSFUQ	6	25~595	5~30	6	600	0.5 or Less
PSSFAQ	PSSFUQ	8	25~793	7~40	8	800	
RSFAQ (L≤500)		10	25~792	8~50	10	800	
		12	25~991	9~60	12	1000	
(D Tolerance f8)		16	25~1190	10~80	16	1200	1.0 or Less
PSFGQ		20	25~1187	13~100	20	1200	
PSSFGQ		30	25~1482	18~150	30	1500	

Coarse Thread Dimension	
M	pitch
3	0.5
4	0.7
5	0.8
6	1.0
8	1.25
10	1.5
12	1.75
16	2.0
20	2.5
30	3.5

L dimension has priority, thus B dimensions should be B-(Pitchx2).

Ordering Example
Part Number - L - B
SFAQ12 - 500 - B20
RSFAQ8 - 500 - B15

Alterations
Part Number - L - B - (SC-etc.)
SFAQ12 - 500 - B20 - SC10

Alterations	Code	Spec.
	SC	Wrench Flats at One Location Ordering Code SC5 Application Notes Applicable to D=6 or more SC=1mm Increment SC+L1<L SC=0 or SC≥2 Not available in combination with WSC.
	WSC	Wrench Flats at Two Locations Ordering Code WSC12-X8 Application Notes Applicable to D=6 or more WSC, X=1mm Increment WSC+X+L1x2<L WSC(X)=0 or WSC(X)≥2 Orientation between wrench flats is not coplanar. Not available in combination with SC.
	FC	Set Screw Flat at One Location Ordering Code FC10-E8 FC, E=1mm Increment FC≤3xD When 1.5xD<FC, FC≤L/2 E=0 or E≥2 Not available in combination with WFC.
	WFC	Set Screw Flats at Two Locations Ordering Code WFC10-A8-E20 WFC, A, E=1mm Increment WFC≤3xD When 1.5xD<WFC, 2WFC≤L/2 A(E)=0 or A(E)≥2 Orientation between set screw flats is not coplanar. Not available in combination with FC.

Alteration Details [P.113](#)

Alterations	Code	Spec.
	RC	90-deg. Set Screw Flat at One Location Ordering Code RC10 Application Notes Only applicable to D=10 ~ 30. Not available in combination with WRC.
	WRC	90-deg. Set Screw Flats at Two Locations Ordering Code WRC10-Y10 Application Notes Only applicable to D=10 ~ 30. Not available in combination with RC. Orientation between two set screw flats is not coplanar.
	KC	Keyway is added at one location. Ordering Code KC10-G10 Application Notes Only applicable to D=12, 16, 20 and 30.

Please see Shaft Alteration Overview for details if provided. [P.113](#)
When selecting multiple alteration additions, the distance between machined areas should be greater than 2mm.
Alterations may lower hardness. See [P.112](#)

Part Number		Unit Price																			
Type	D	Min. L	L51	L101	L151	L201	L251	L301	L351	L401	L451	L501	L551	L601	L651	L701	L751	L801	L851	L901	L951
SFAQ	3	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
	4																				
	5																				
	6																				
	8																				
	10																				
SSFUQ	12																				
	16																				
	20																				
	30																				
	3																				
	4																				
SSFAQ	5																				
	6																				
	8																				
	10																				
	12																				
	16																				
PSFUQ	20																				
	30																				
	3																				
	4																				
	5																				
	6																				
PSSFUQ	8																				
	10																				
	12																				
	16																				
	20																				
	30																				
PSSFUQ	3																				
	4																				
	5																				
	6																				
	8																				
	10																				
PSSFAQ	12																				
	16																				
	20																				
	30																				
	3																				
	4																				
PSSFUQ	5																				
	6																				
	8																				
	10																				
	12																				
	16																				
PSSFAQ	20																				
	30																				
	3																				
	4																				
	5																				
	6																				
PSSFUQ	8																				
	10																				
	12																				
	16																				
	20																				
	30																				

Part Number		Unit Price							
Type	D	Min. L	L101	L201	L401	L601	L801	L1001	L1201
PSFGQ	6	100	200	400	600	800	1000	1200	1482
	8								
	10								
	12								
	16								
	20								
PSSFGQ	30								
	6								
	8								
	10								
	12								
	16								
PSSFGQ	20								
	30								

Part Number		Unit Price							
Type	D	Min. L	L51	L101	L151	L201	L301	L401	
RSFAQ	3	50	100	150	200	300	400	500	
	4								
	5								
	6								
	8								
	10								
RSFAQ	12								
	16								
	20								
	30								

Example