

Shafts

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

For One End Threaded Shafts with different diameters, see P191.



RoHS10

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

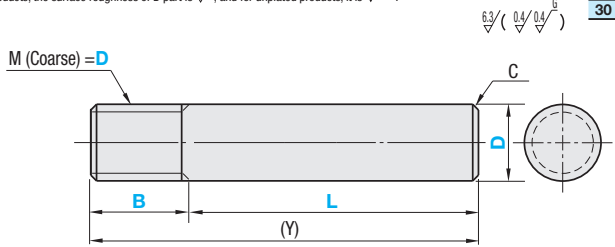
P142

L Dimension Tolerance, Circularity, Straightness, Perpendicularity, Concentricity and Changes in Hardness P141

Features of Low Temp. Black Chrome Plating P156

Type			Material	Hardness	Surface Treatment	D Tol.			
D Tol. g6	D Tol. h5	D Tol. f8				D	g6	h5	f8
SFAQ	SFUQ	-	SUJ2	Effective Hardened Depth of Induction Hardening P142 SUJ2 58HRC~ SUS440C Equivalent 56HRC~	Hard Chrome Plating - Plating Hardness: HV750 ~, Plating Thickness: 5μ or More	3	-0.002 -0.008	0 -0.004	-
SSFAQ	SSFUQ	-	SUS440C Equivalent			4	-	-	-
PSFAQ	PSFUQ	-	SUJ2			5	-0.004 -0.012	0 -0.005	-0.010 -0.028
PSSFAQ	PSSFUQ	-	SUS440C Equivalent			6	-	-	-
RSFAQ	-	-	SUJ2	Low Temp. Black Chrome Plating Hard Chrome Plating - Plating Hardness: HV750 ~, Plating Thickness: 10μ or More		8	-0.005 -0.014	0 -0.006	-0.013 -0.035
-	-	PSFGQ	S45C Equivalent			10	-0.014	-0.006	-0.035
-	-	PSSFGQ	SUS304			12	-0.006 -0.017	0 -0.008	-0.016 -0.043
-	-	-	-			16	-0.017	-0.008	-0.043
-	-	-	-			20	-0.007 -0.020	0 -0.009	-0.020 -0.053
-	-	-	-			30	-	-	-

For plated products, the surface roughness of D part is $0.4 \sqrt{}$; and for unplated products, it is $0.4 \sqrt{}$.



L does not include incomplete threads.

Part Number		1mm Increments		M	(Y) Max.	C
Type	D	L	B			
(D Tol. g6)	(D Tol. h5)					
SFAQ	SFUQ	3	25~ 197	3	200	0.2 or Less
SSFAQ	SSFUQ	4	25~ 296	4	300	
PSFAQ	PSFUQ	5	25~ 396	5	400	
PSSFAQ	PSSFUQ	6	25~ 795	6	600	0.5 or Less
RSFAQ	RSFUQ	8	25~ 993	8	800	
(L≤500)		10	25~ 992	10	800	
(D Tol. f8)		12	25~1191	12	1000	
PSFGQ		16	25~1190	16	1200	1.0 or Less
PSSFGQ		20	25~1187	20	1200	
		30	25~1482	30	1500	

Coarse Thread Dimensions

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

Alteration Details P143

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)=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 D≤30:FC≤5xD D≥35:FC≥3xD 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 D≤30:WFC≤5xD D≥35:WFC≥3xD A(E)=0 or A(E)≥2 Orientation between set screw flats is not coplanar. Not available in combination with FC.

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.
	PMC PMS	Change to Fine Thread (Ordering Code) PMC10 (P is changed to PMC) PMS10 (P is changed to PMS) D PMC Pitch PMS Pitch 3 3 0.35 4 4 0.5 5 5 0.5 6 6 0.75 8 8 1.0 10 10 1.0 12 12 1.0 16 16 1.0 20 20 1.0 30 30 1.5

Please see Shaft Alteration Overview for details if provided. P143
When selecting multiple alteration additions, the distance between machined areas should be greater than 2mm.
Alterations may lower hardness. See P142

For products uncovered by the e-Catalog Standards, see P131.

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	L1001	L1101	L1201	L1301	L1401	L1401	L1401	L1401	L1401
SFAQ	3	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1100	1200	1300	1400	1482	-	-	-	-
	4																													
	5																													
	6																													
	8																													
	10																													
SSFAQ	3																													
	4																													
	5																													
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PSSFAQ	3																													
	4																													
	5																													
	6																													
	8																													
	10																													

For D tolerance h5, add the relevant surcharge to the prices above.

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	6								
	8								
	10								
	12								
	16								
	20								

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

Example

