



# Shafts

Standard Type / One End Threaded with O.D. Same as Shaft O.D.

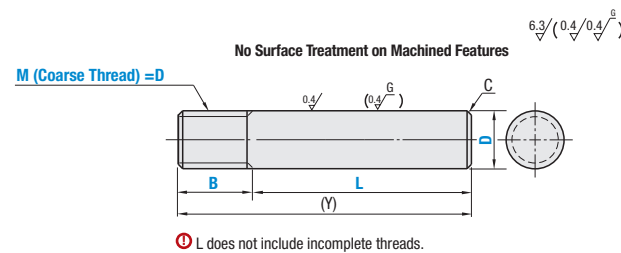
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RoHS10

- Shaft End Machined Area (Effective Thread Length + approx. 10 mm) Annealing could reduce hardness. P.199
- Changes in Circularity, Straightness, Perpendicularity, concentricity and Hardness. P.198
- Features of Low Temperature Black Chrome Plating. P.213.
- For One End Threaded Shafts with different diameters, please see P.220.

Type			Material	Hardness	Surface Treatment
Standard					
D Tol. g6	D Tol. h5	D Tol. f8			
SFAQ	SFUQ	—	52100 Bearing Steel Equivalent	Effective Hardened Depth of Induction Hardened P.199	—
SSFAQ	SSFUQ	—	SUS440C (13Cr) Stainless Steel Equivalent		
PSFAQ	PSFUQ	—	52100 Bearing Steel Equivalent	52100 Bearing Steel Equivalent 58 HRC min.	Hard Chrome Plating Plating Hardness: HV 750~ Plating Thickness: 5 μ or More
PSSFAQ	PSSFUQ	—	SUS440C (13Cr) Stainless Steel Equivalent		
RSFAQ	—	—	52100 Bearing Steel Equivalent	1045 Carbon Steel Equivalent	Low Temperature Black Chrome Plating
—	—	PSFGQ	1045 Carbon Steel Equivalent		
—	—	PSSFGQ	304 Stainless Steel		



D Tolerance			
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	—	—	—

Part Number	1 mm Increment			M	(Y) Max.	C	Coarse Thread Dimensions		
	Type	D	L				B	M	Pitch
D Tolerance g6 SFAQ SSFAQ PSFAQ PSSFAQ RSFAQ L≤500	D Tolerance h5 SFUQ SSFUQ PSFUQ PSSFUQ	3	25-197	3-15	3	200	0.2 or Less	3	0.5
		4	25-296	4-20	4	300		4	0.7
		5	25-396	4-25	5	400		5	0.8
		6	25-895	5-30	6	900		6	1.0
		8	25-1093	7-40	8	1100		8	1.25
	D Tolerance f8 PSFGQ PSSFGQ	10	25-1192	8-50	10	1200	0.5 or Less	10	1.5
		12	25-1391	9-60	12	1400		12	1.75
		16	25-1390	10-80	16	1400		16	2.0
		20	25-1387	13-100	20	1400		20	2.5
		30	25-1482	18-150	30	1500		30	3.0

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

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

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

Alteration Details P.200

Alterations	Code	Spec.
	SC	Wrench Flats at One Location Ordering Code: SC5 Application Notes: Applicable to D=6 or more SC=1 mm Increment ① SC+ℓ <sub>1</sub> ≤L ② 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 = 1 mm increment ① WSC+X+ℓ <sub>1</sub> ×2<L ② WSC (X)=0 or WSC (X)≥2 ⊗ Orientation between wrench flat features is random. Not available in combination with SC.
	FC	Set Screw Flat at One Location Ordering Code: FC10-E8 FC, E = 1 mm Increment ① FC≈3xD ② When 1.5XD<FC, FC≤L/2 ③ 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 and E = 1 mm Increment ① WFC≈3xD ② When 1.5XD<FC, 2WFC≤L/2 ③ A (E)=0 or A (E)≥2 ⊗ Orientation between set screw flats is random. Not available in combination with FC.

Alterations	Code	Spec.
	RC	90° Set Screw Flat at One Location Ordering Code: RC10 Application Notes: Only applicable to D=10-30 ⊗ Not available in combination with WRC. Ⓞ For details, see Shaft Alteration Overview P.200.
	WRC	2 x 90° set screw flats Ordering Code: WRC10-Y10 Application Notes: Applicable to D=10-30 ⊗ Not available in combination with RC. ⊗ Orientation between set screw features is random. Ⓞ For details, see Shaft Alteration Overview P.200.
	KC	Keyway is added at one location Ordering Code: KC10-G10 Application Notes: Only applicable to D=12, 16, 20 and 30 Ⓞ For details, see Shaft Alteration Overview P.200.
	PMC PMS	Change to Fine Thread Ordering Code: PMC10 (P is changed to PMC) PMS10 (P is changed to PMS)

- Please see Shaft Alteration Overview for details if provided. P.200
- When selecting multiple alteration additions, the distance between machined areas should be greater than 2 mm. P.201
- Alterations may lower hardness. P.199