

Shafts

One End Two Tapped Holes

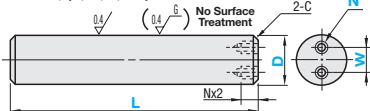


RoHS 10

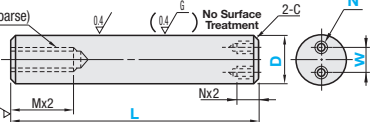
- ⚠ Annealing may lower hardness at shaft end machined areas (effective thread length + approx. 10mm). ⚠ P.112
- ⚠ L Dimension Tolerance, Circularity, Straightness, Perpendicularity, Concentricity and Changes in Hardness ⚠ P.111

Type				D Tol.	Material	Hardness	Surface Treatment
Solid Type	Tapped Type	Stepped and Tapped Type	Threaded Type				
SFDJ	SFDT	SFDG	SFDN	g6	EN 1.3505 Equiv.	Effective Hardened Depth of Induction Hardening ⚠ P.112 EN 1.3505 Equiv. 58HRC~ EN 1.4037 Equiv. 56HRC~	-
SSFDJ	SSFDT	SSFDG	SSFDN		EN 1.3505 Equiv.		
PSFDJ	PSFDT	PSFDG	PSFDN		EN 1.3505 Equiv.		

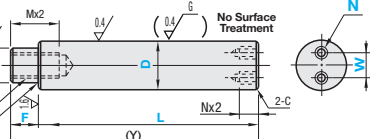
Solid Type SFDJ, (S, R, P, PS) SFDJ



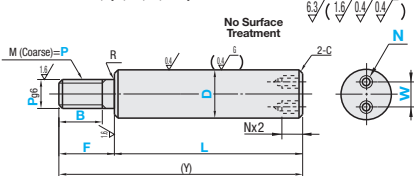
Tapped Type SFDT, (S, R, P, PS) SFDT



Stepped and Tapped Type SFDG, (S, R, P, PS) SFDG



Threaded Type SFDN, (S, R, P, PS) SFDN



Solid Type, One End Tapped Type, One End Stepped and Tapped Type

Part Number		1mm Increment		F	P	Selection		W specified in 1mm Increment	N Selection	(Y) Max.	R	C
Type	D	L (Solid / Tapped)	L (Stepped and Tapped)			M (Tapped)	M (Stepped and Tapped)					
Solid Type SFDJ SSFDJ PSFDJ	Tapped Type SFDT SSFDT PSFDT	Stepped and Tapped SFDG SSFDG PSFDG	15	25~750	25~750	6-13	4 5 6 8 10	3 4 5 6 8 10	D-W-N≥4 W-N≥3	802	0.5 or Less	0.5 or Less
			16	30~800	25~800	8-16	4 5 6 8 10 12	3 4 5 6 8 10 12		856		
			18	30~900	25~900	8-16	4 5 6 8 10 12	4 5 6 8 10 12		964		
			20	30~1000	25~1000	8-17	4 5 6 8 10 12	4 5 6 8 10 12		1068		
			25	35~1200	25~1198	8-22	4 5 6 8 10 12 16	4 5 6 8 10 12 16		1200		
			30	35~1500	25~1498	9-27	6 8 10 12 16 20	5 6 8 10 12 16 20 24		1500		
			35	35~1500	25~1498	9-32	8 10 12 16 20 24	5 6 8 10 12 16 20 24		1500		
			40	50~1500	25~1498	11-37	10 12 16 20 24 30	6 8 10 12 16 20 24 30		1500		
			50	50~1500	25~1498	11-47	12 16 20 24 30	6 8 10 12 16 20 24 30		1500		

• Tapped Type ⚠ Not applicable when Mx2.5+4+Nx2.5+4≤L. • Stepped and Tapped Type ⚠ P≥M+3 ⚠ Not applicable when Mx2.5+4+Nx2.5+4≤L.

Threaded Type

Part Number		1mm Increment		F	B (Threaded)	P Selection		W specified in 1mm Increment	N Selection	(Y) Max.	R	C
Type	D	L	F			B (Threaded)	P Selection					
Threaded Type SFDN SSFDN PSFDN	Tapped Type SFDT SSFDT PSFDT	Stepped and Tapped SFDG SSFDG PSFDG	15	25~750	25~750	(When P=5, 6) B≤F-2	5 6 8 10 12	D-W-N≥4 W-N≥3	4 5 6 8 10 12	825	0.5 or Less	0.5 or Less
			*16	25~800	25~800	(When P=8, 10) B≤F-3	5 6 8 10 12 16			880		
			18	25~900	25~900	(When P≥12) B≤F-5	6 8 10 12 16			990		
			*20	25~1000	25~1000		8 10 12 16 20 24			1100		
			25	25~1198	25~1198		8 10 12 16 20 24			1200		
			*30	25~1498	25~1498		10 12 16 20 24 30			1500		
			35	25~1498	25~1498		12 16 20 24 30			1500		
			40	25~1498	25~1498		16 20 24 30			1500		
			50	25~1498	25~1498					1500		

⚠ D>P

Ordering Example	Part Number	-	L	-	F	-	B	-	P	-	M	-	N
	SFDJ20	-	75	-		-		-	W10	-	N4	-	
	SFDT20	-	525	-	F25	-	P16	-	M8	-	N4	-	
	SFDG20	-	400	-	F30	-	B20	-	M10	-	N4	-	
	SFDN20	-	500	-	F30	-	B20	-	M10	-	N4	-	

Coarse Thread Dimension		Coarse Thread Dimension	
M	Pitch	M	Pitch
3	0.5	12	1.75
4	0.7	16	2.0
5	0.8	20	2.5
6	1.0	24	3.0
8	1.25	30	3.5
10	1.5		

Alterations	Part Number	-	L	-	F	-	B	-	P (PMC, PMS)	-	M (MSC)	-	W	-	N	-	(LKC, MSC, PMC, PMS)
	SFDN30	-	250	-	F40	-	B30	-	PMC10	-	W10	-	N4	-		-	LKC

⚠ Alterations may lower hardness. See ⚠ P.112

Alterations	Alteration to L dimension tolerance	Fine Tap MSC (Fine)	Fine Thread PMC, PMS (Fine)
Code	LKC	MSC	PMC, PMS
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 when D=P±2.	Changes tapped threads to fine tapped threads shown in the table below. Ordering Code MSC14 ⚠ Applicable to Tapped Type ⚠ Specify M dimensions with MSC. ⚠ M dimension is equal to MSC. ⚠ Not applicable to Stepped and Tapped Type.	Changes the threads to fine threads shown in the table below. (PMC is for bearing nut fine thread pitches.) (PMS is for cylinder fine thread pitches.) Ordering Code PMC17 ⚠ Applicable to Threaded Type only. ⚠ Specify P dimensions with PMC (PMS). ⚠ P dimension is equal to that of PMC(PMS).