Shafts
One End Two Tapped Holes

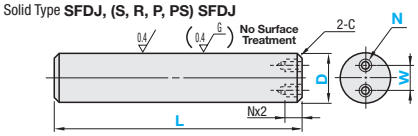
RoHS10

(P)Annealing may lower hardness at shaft end machined areas (effective thread length + approx. 10mm). ☞P.112

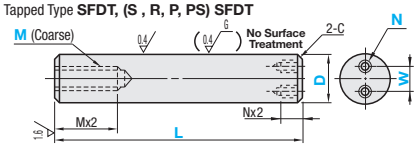
(P)L Dimension Tolerance, Circularity, Straightness, Perpendicularity, Concentricity and Changes in Hardness ☞P.111

Type				D Tol.	M Material	H Hardness	S Surface Treatment
Solid Type	Tapped Type	Stepped and Tapped Type	Threaded Type				
SFDJ	SFDT	SFDG	SFDN	g6	SUJ2 Equivalent	Effective Hardened Depth of Induction Hardening ☞P.112 SUJ2 Equivalent 58HRC~ SUS440C or 13Cr stainless 56HRC~	-
SSFDJ	SSFDT	SSFDG	SSFDN		SUS440C or 13Cr stainless		Hard Chrome Plating Plating Hardness: HV750 ~ Plating Thickness: 5μ or More
PSFDJ	PSFDT	PSFDG	PSFDN		SUJ2 Equivalent		

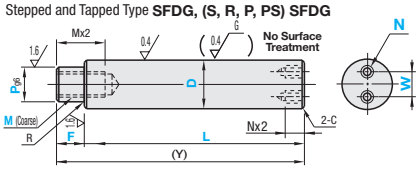
Solid Type **SFDJ, (S, R, P, PS) SFDJ**



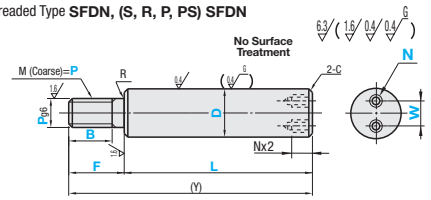
Tapped Type **SFDT, (S , R, P, PS) SFDT**



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 Type	D	1mm Increment L (Solid / Tapped)	1mm Increment L (Stepped and Tapped)	F	P	Selection M (Tapped)	Selection M (Stepped and Tapped)	W specified in 1mm Increment	N Selection	(Y) Max.	R	C
Solid Type / Tapped Type / Stepped and Tapped	15	25~750	25~750	2≤F≤Px4	6~13	4 5 6 8 10	3 4 5 6 8 10	D-W-N≥4 W-N≥3	4 5 6 8 10 12	802	0.3 or Less	0.5 or Less
SFDJ SFDT SFDG	16	30~800	25~800		6~14	4 5 6 8 10	3 4 5 6 8 10			856		
SSFDJ SSFDT SSFDG	18	30~900	25~900		8~16	4 5 6 8 10 12	4 5 6 8 10 12			964		
PSFDJ PSFDT PSFDG	20	30~1000	25~1000		8~17	4 5 6 8 10 12	4 5 6 8 10 12			1068		1.0 or Less
	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	0.5 or Less	
	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 (P)Not applicable when Mx2.5+4+Nx2.5+4≤L. • Stepped and Tapped Type (P)P≥M+3 (P)Not applicable when Mx2.5+4+Nx2.5+4≤L.

■Threaded Type

Part Number Type	D	1mm Increment L	F	B (Threaded)	P Selection	W specified in 1mm Increment	N Selection	(Y) Max.	R	C
Threaded Type SFDN SSFDN PSFDN	15	25~750	2≤F≤Px5	(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	0.3 or Less	0.5 or Less
	*16	25~800			5 6 8 10 12			880		
	18	25~900		(When P=8, 10) B≤F-3	5 6 8 10 12 16			990		
	*20	25~1000			6 8 10 12 16			1100		
	25	25~1198			8 10 12 16 20 24			1200		
	*30	25~1498		(When P≥12) B≤F-5	8 10 12 16 20 24			1500		1.0 or Less
	35	25~1498			10 12 16 20 24 30			1500	0.5 or Less	
	40	25~1498		B≥Pitchx3	12 16 20 24 30			1500		
	50	25~1498			16 20 24 30			1500		

(P)D>P

Ordering Example

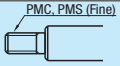
Part Number	L	F	B	P	M	W	N
SFDJ20	75					W10	N4
SFDT20	525				M8	W7	N4
SFDG20	400	F25		P16	M10	W12	N4
SFDN20	500	F30	B20	P16		W8	N4

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

(P)Alterations may lower hardness. See ☞P.112

Coarse Thread Dimension M	Pitch	Coarse Thread Dimension 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	Alteration to L dimension tolerance	Fine Tap	Fine Thread
		MSC (Fine) 	PMC, PMS (Fine) 
Code	LKC	MSC	PMC, PMS
Spec.	Changes L tolerance. Ordering Code LKC (P)L<200···L±0.03 200≤L<500···L±0.05 L≥500···L±0.1 (P)L dimensions can be specified in 0.1mm increment for LKC. (X)Not applicable when D-P≤2.	Changes tapped threads to fine tapped threads shown in the table below. Ordering Code MSC14 (P)Applicable to Tapped Type (P)Specify M dimensions with MSC. (P)M dimension is equal to MSC. (X)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 (P)Applicable to Threaded Type only. (P)Specify P dimensions with PMC (PMS). (P)P dimension is equal to that of PMC(PMS).

D	MSC				
15, 16	8	10			
18	8	10	12		
20	8	10	12	14	
25~35	8	10	12	14	18
40		10	12	14	18
50			12	14	18
Pitch	1.0	1.25		1.5	

D	PMC								PMS			
15	5	6	8	10	12				10	12		
16	5	6	8	10	12	15			10	12	14	
18	5	6	8	10	12	15	17		10	12	14	
20		6	8	10	12	15	17		10	12	14	18
25			8	10	12	15	17	20	10	12	14	18
30			8	10	12	15	17	20	25	10	12	14	18
35				10	12	15	17	20	25	30	10	12	14	18
40					12	15	17	20	25	30		12	14	18
50						15	17	20	25	30			14	18
Pitch	0.5	0.75			1.0				1.5		1.25		1.5	