

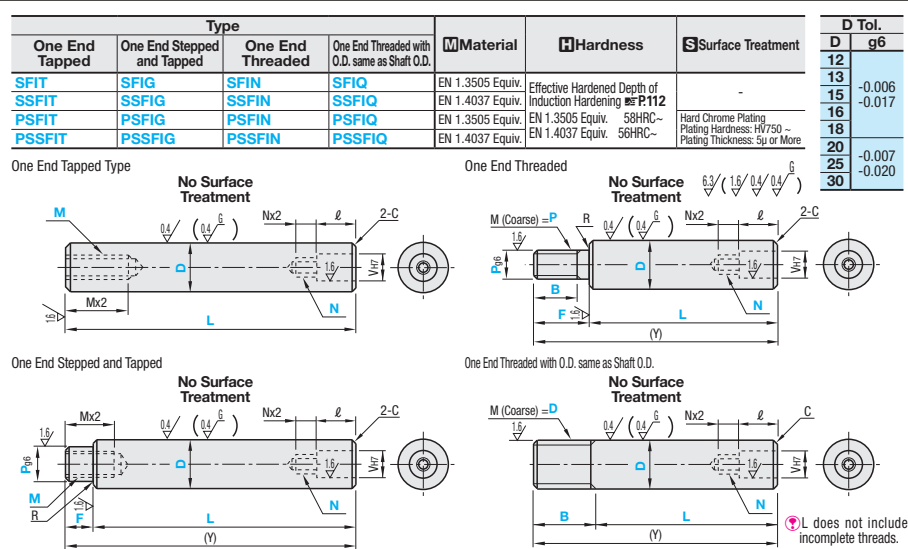
# Shafts

## Tapped Pilot Type



RoHS 10

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



### One End Tapped, One End Stepped and Tapped

Part Number	1mm Increment		Selection				Pilot Dimensions			(Y) Max.	R	C
	Type	D	L	F	P	M Coarse (Tapped)	M Coarse (Stepped and Tapped)	N (Selection)	V Hole Diameter			
Tapped Type	12	25-1000			6-10	4 5 6 8	4 5 6	4	8	9	1000	0.5 or Less
SFIT	13	25-1000			6-11	4 5 6 8	4 5	4 5	10	11	1000	
SSFIT	15	25-1000			6-13	4 5 6 8 10	4 5 6 8 10	4 5	10	11	1000	0.3 or Less
PSFIT	16	30-1200			6-14	4 5 6 8 10	4 5 6 8 10	4 5 6	12	13	1200	
PSSFIT	18	30-1200	2≤F≤Px4		8-16	4 5 6 8 10 12	4 5 6 8 10 12	4 5 6	12	13	1200	1.0 or Less
SFFIG	20	30-1200			8-17	4 5 6 8 10 12	4 5 6 8 10 12	5 6 8 10	16	17	1200	
SSFIF	25	35-1200			8-22	4 5 6 8 10 12 16	4 5 6 8 10 12 16	6 8 10 12	20	21	1200	
PSFFIG	30	35-1500			9-27	6 8 10 12 16 20 24	6 8 10 12 16 20 24	6 8 10 12	20	21	1500	

L(Y)>Mx2.5+4+L+Nx1.5+4 is required to have effective thread length. • One End Stepped and Tapped • P dimensions require M+3≤P.

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

Part Number	1mm Increment		Selection		Pilot Dimensions			(Y) Max.	R	C	
	Type	D	L	F	B (Threaded)	B (One End Threaded with O.D. same as Shaft O.D.)	N (Selection)				V Hole Diameter
Threaded Type	*12	25-998			5 6 8 10 12	4	4	8	9	1000	0.5 or Less
SFIN	13	25-998			5 6 8 10 12	4 5	4 5	10	11	1000	
SSFIN	15	25-998			5 6 8 10 12	4 5	4 5	10	11	1000	0.3 or Less
PSFIN	*16	25-1198	2≤F≤Px5	(When P≤8, 10) B≤F-3	5 6 8 10 12 16	4 5 6	4 5 6	12	13	1200	
SFFIO	18	25-1198		(When P≥12) B≤F-5	5 6 8 10 12 16	4 5 6	4 5 6	12	13	1200	1.0 or Less
SSFIO	*20	25-1198		B≥Pitchx3	6 8 10 12 16 20	5 6 8 10	5 6 8 10	16	17	1200	
PSFFIO	25	25-1198			8 10 12 16 20 24	6 8 10 12	6 8 10 12	20	21	1200	
PSSFIO	*30	25-1498			8 10 12 16 20 24 30	6 8 10 12	6 8 10 12	20	21	1500	

Overall length L requires Nx2.5+L≤L.

### One End Tapped

Type	D	Unit Price											
		Min. L	L51	L101	L151	L201	L301	L401	L501	L601	L801	L1001	L1201
SFIT	12												
SFIT	13												
SFIT	15												
SFIT	16												
SFIT	18												
SFIT	20												
SFIT	25												
SFIT	30												
SSFIT	12												
SSFIT	13												
SSFIT	15												
SSFIT	16												
SSFIT	18												
SSFIT	20												
SSFIT	25												
SSFIT	30												
PSFIT	12												
PSFIT	13												
PSFIT	15												
PSFIT	16												
PSFIT	18												
PSFIT	20												
PSFIT	25												
PSFIT	30												
PSSFIT	12												
PSSFIT	13												
PSSFIT	15												
PSSFIT	16												
PSSFIT	18												
PSSFIT	20												
PSSFIT	25												
PSSFIT	30												

### One End Stepped and Tapped

Type	D	Unit Price											
		Min. L	L51	L101	L151	L201	L301	L401	L501	L601	L801	L1001	L1201
SFFIG	12												
SFFIG	13												
SFFIG	15												
SFFIG	16												
SFFIG	18												
SFFIG	20												
SFFIG	25												
SFFIG	30												
SSFIF	12												
SSFIF	13												
SSFIF	15												
SSFIF	16												
SSFIF	18												
SSFIF	20												
SSFIF	25												
SSFIF	30												
PSFFIG	12												
PSFFIG	13												
PSFFIG	15												
PSFFIG	16												
PSFFIG	18												
PSFFIG	20												
PSFFIG	25												
PSFFIG	30												

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

Type	D	Unit Price											
		Min. L	L51	L101	L151	L201	L301	L401	L501	L601	L801	L1001	L1201
SFIN	*12												
SFIN	13												
SFIN	15												
SFIN	*16												
SFIN	18												
SFIN	*20												
SFIN	25												
SFIN	*30												
SSFIN	*12												
SSFIN	13												
SSFIN	15												
SSFIN	*16												
SSFIN	18												
SSFIN	*20												
SSFIN	25												
SSFIN	*30												
PSFIN	*12												
PSFIN	13												
PSFIN	15												
PSFIN	*16												
PSFIN	18												
PSFIN	*20												
PSFIN	25												
PSFIN	*30												
PSSFIN	*12												
PSSFIN	13												
PSSFIN	15												
PSSFIN	*16												
PSSFIN	18												
PSSFIN	*20												
PSSFIN	25												
PSSFIN	*30												

\* marked sizes are only available for One End Threaded with O.D. same as Shaft O.D.

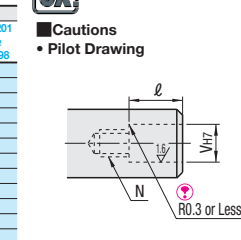
Ordering Example: Part Number - L - F - B - P - M - N  
 SFIT12 - 500 - F4 - P10 - M6 - N10  
 PSSFIG30 - 1000 - F4 - P10 - M6 - N10

Alterations Example: Part Number - L - F - B - P (PMC, PMS) - M (MSC) - N - (LKC, SC, FC-etc.)  
 PSSFIG30 - 1000 - F4 - P10 - M6 - N10 - LKC

When selecting multiple alteration additions, the distance between machined areas should be greater than 2mm. P.114 Alterations may lower hardness. See P.112

Alterations	Code	Spec.
	LKC	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 to One End Threaded Type when D≤P-2. * Not applicable to One End Threaded with O.D. same as Shaft O.D.
	SC	Adds wrench flats. Ordering Code: SC5 * SC=1mm Increment * SC+ℓ1≤L SC≥0 * SC machining is not applicable to pilot machined areas. SC≤L-ℓ1-ℓ-2
	FC	Adds a screw flat. Ordering Code: FC10-E8 * FC, E=1mm Increment * FC≤Dx3 * When 1.5xD<FC, FC≤L/2 * E=0 or E≥2 * FC machining is not applicable to pilot machined areas. E≥ℓ+2

### Example



### Cautions

- Pilot Drawing
- Pilot Dimensions
- Pilot bore of the precision hole has R0.3 or less. Mating part is required to be C0.4 or better for assembly.

D	N (Selection)				V Hole Diameter	l Hole Depth	
	4	5	6	8			
12	4				8	9	
13	4	5			10	11	
15	4	5					
16	4	5	6				
18	4	5	6		12	13	
20		5	6	8	10	16	17
25		6	8	10	12		
30		6	8	10	12	20	21