

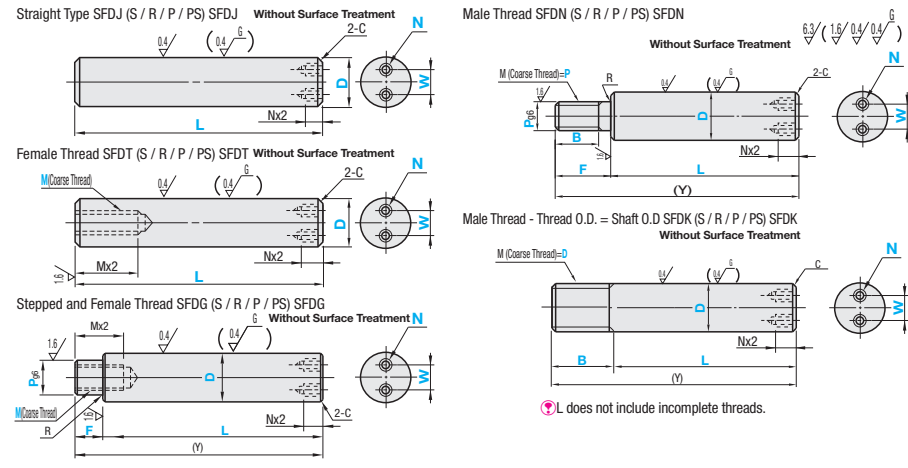
Shafts

-One End Two Female Thread Holes Type-



- ⚠️ Annealing required for machining wrench flats and shaft end threading (effective thread length + approx. 10mm) may lower hardness. **P.104**
- ⚠️ Circularity, Straightness, Perpendicularity. **P.103**
- ⚠️ Features of Raydent **P.118**

Straight Type	Type		Male Thread Type	Male Thread - Thread O.D. = Shaft O.D.	D Tolerance	Material	Hardness	Surface Treatment
	Female Thread Type	Stopped and Female Thread Type						
SFDJ	SFDT	SFDG	SFDN	SFDK	g6	SUJ2 SUS440C equivalent	Induction Hardening Effective Hardening Depth P.104	Hard Chrome Plating Plating Hardness: HV750 ~ Plating Thickness 5μ or more Raydent
SSFJ	SSFD	SSFDG	SSFDN	SSFJK				
PSFDJ	PSFD	PSFDG	PSFDN	PSFDK				
PSSFJ	PSSFD	PSSFDG	PSSFDN	PSSFJK				
RSFDJ	RSFD	RSFDG	RSFDN	RSFDK				



■ Straight Type One End Female Thread - One End Stepped and Female Thread

Part Number	Type	1mm increments				Selection		W	N	(Y) Max.	R	C		
		D	L (Straight - Female Thread)	L (Stepped and Female Thread)	F	P	M (Female Thread)						M (Stepped and Female Thread)	
Straight Type SFDJ SSFJ PSFDJ PSSFJ RSFDJ (D:30, L:500)	Female Thread Type	15	25-750	25-750	2.5F≤Px4	6-13	4 5 6 8 10	D-W-N≥4	4	802	0.5 or less	0.3 or less		
	Stepped and Female Thread	16	30-800	25-800		6-14	4 5 6 8 10						3 4 5 6 8 10	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

⚠️ Female Thread Type: Not applicable when Mx2.5+4+Nx2.5+4≤L. ⚠️ Stepped and Female Thread: P≥M+3 (Not applicable when Mx2.5+4+Nx2.5+4≤L)

■ Male Thread - Thread O.D. = Shaft O.D.

Part Number	Type	1mm increments				P Selection	W	N	(Y) Max.	R	C	
		D	L	F	B (Male Thread)							
Male Thread type SFDN SSFDN PSFDN PSSFJ RSFDN (D:30, L:500)	Male Thread - Thread O.D. = Shaft O.D. Type	15	25-750		(When P=5 and 6) B≤F-2	5 6 8 10 12	D-W-N≥4	4	825	0.3 or less	0.5 or less	
		*16	25-800		2≤B≤Mx5	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	2≤F≤Px5	(When P≤12) B≤F-5	6 8 10 12 16						1100
		25	25-1198		B=(Pitch x 2)	8 10 12 16 20 24						1200
		*30	25-1498		B≥Pitchx3	8 10 12 16 20 24						1500
		35	25-1498			10 12 16 20 24 30						1500
		40	25-1498			12 16 20 24 30						1500
		50	25-1498			16 20 24 30						1500

⚠️ For B dimensions "Thread O.D.=Shaft O.D." Type, effective thread length is Pitchx3≤B≤Mx5. ⚠️ D > P except "Thread O.D. same as Shaft O.D." type.

Part Number	L	F	B	P	M	W	N
SFDJ20	75					W10	N4
SFDT20	525					W7	N4
SFDG20	400	F25			M8	W12	N4
SFDN20	500	F30	B20	P16	M10	W8	N4
SFDK20	1000		B30			W10	N4

Coarse Thread Dimensions		Coarse Thread Dimensions	
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		

Part Number	L	F	B	P (PMC / PSC)	M (MSC)	W	N
SFDN30	250	F40	B30	PMC10		W10	N4

⚠️ Alterations may lower hardness. **P.104**

Alterations	Alteration to L Dimension Tolerance	Change to Fine Thread	Change to Fine Thread																																																	
	MSC (Fine Thread)	PMC, PMS (Fine Thread)																																																		
Code	LKC	MSC	PMC / PMS																																																	
Spec.	<p>Changes "L Tolerance".</p> <p>[Ordering Code] LKC</p> <ul style="list-style-type: none"> ⚠️ L<200 → L±0.03 ⚠️ 200≤L<500 → L±0.05 ⚠️ L≥500 → L±0.1 <p>⚠️ When using LKC, L dimensions can be specified in 0.1mm increments.</p> <p>⚠️ Not applicable when D-P≤2</p> <p>⚠️ For Male Thread - Thread O.D. = Shaft O.D.</p>	<p>Female Thread thread changed to fine thread listed in the table below.</p> <p>[Ordering Code] MSC14</p> <ul style="list-style-type: none"> ⚠️ Applicable to Female Thread Type ⚠️ Please replace M dimension with MSC to specify. <table border="1"> <thead> <tr> <th>D</th> <th>MSC</th> </tr> </thead> <tbody> <tr><td>15/16</td><td>8 10 12</td></tr> <tr><td>18</td><td>8 10 12</td></tr> <tr><td>20</td><td>8 10 12 14</td></tr> <tr><td>25-35</td><td>8 10 12 14 18</td></tr> <tr><td>40</td><td>10 12 14 18</td></tr> <tr><td>50</td><td>12 14 18</td></tr> <tr><td>Pitch</td><td>1.0 1.25 1.5</td></tr> </tbody> </table> <ul style="list-style-type: none"> ⚠️ M dimension is equal to MSC. ⚠️ Not applicable to Stepped and Female Thread. 	D	MSC	15/16	8 10 12	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	<p>Changes the threads to Fine Threads shown in the table below.</p> <p>(PMC → Applicable to Bearing nut fine threads)</p> <p>(PMS → Applicable to Cylinder fine thread pitches)</p> <p>[Ordering Code] PMC17</p> <ul style="list-style-type: none"> ⚠️ Applicable to Male Thread type only ⚠️ Please replace P dimension with PMC (PMS) to specify. <table border="1"> <thead> <tr> <th>D</th> <th>PMC</th> <th>PMS</th> </tr> </thead> <tbody> <tr><td>15</td><td>5 6 8 10 12</td><td>10 12</td></tr> <tr><td>16</td><td>5 6 8 10 12 15</td><td>10 12 14</td></tr> <tr><td>18</td><td>5 6 8 10 12 15 17</td><td>10 12 14</td></tr> <tr><td>20</td><td>6 8 10 12 15 17</td><td>10 12 14 18</td></tr> <tr><td>25</td><td>8 10 12 15 17 20</td><td>10 12 14 18</td></tr> <tr><td>30</td><td>8 10 12 15 17 20 25</td><td>10 12 14 18</td></tr> <tr><td>35</td><td>10 12 15 17 20 25 30</td><td>10 12 14 18</td></tr> <tr><td>40</td><td>12 15 17 20 25 30</td><td>12 14 18</td></tr> <tr><td>50</td><td>15 17 20 25 30</td><td>14 18</td></tr> <tr><td>Pitch</td><td>0.5 0.75 1.0 1.5 1.25 1.5</td><td></td></tr> </tbody> </table> <ul style="list-style-type: none"> ⚠️ P dimension and PMC (PMS) are equal in measurement. 	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	
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