

Shafts

-One End Two Female Thread Holes Type-

RoHS



- 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**

Type		Material	Hardness	Surface Treatment
SFDJ	SFDT	SUJ2	Induction Hardening	-
SSFJDJ	SSFJDT	SUS440C equivalent	Effective Hardening Depth P.104	-
PSFDJ	PSFDT	SUJ2	SUJ2	Hard Chrome Plating
PSSFJDJ	PSSFJDT	SUS440C equivalent	SUS440C equivalent	Plating Hardness: HV750 ~
RSFDJ	RSFDT	SUJ2	SUS440C equivalent	Plating Thickness 5μ or more

Straight Type SFDJ (S / R / P / PS) SFDJ Without Surface Treatment

Female Thread SFDT (S / R / P / PS) SFDT Without Surface Treatment

Stepped and Female Thread SFDG (S / R / P / PS) SFDG Without Surface Treatment

Male Thread SFDN (S / R / P / PS) SFDN Without Surface Treatment

Male Thread - Thread O.D. = Shaft O.D. SFDK (S / R / P / PS) SFDK Without Surface Treatment

L does not include incomplete threads.

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	F	P	M (Female Thread)	M (Stepped and Female Thread)					
Straight Type SFDJ SSFJDJ PSFDJ PSSFJDJ RSFDJ (D≤30, L≤500)	Female Thread Type	15	25-750			6-13	4 5 6 8 10	D-W-N≥4 W-N≥3	4 5 6 8 10 12	802 856 964 1068 1200 1500 1500 1500	0.5 or less	
	Stepped and Female Thread	16	30-800			6-14	4 5 6 8 10					
		18	30-900			8-16	4 5 6 8 10 12					
		20	30-1000			8-17	4 5 6 8 10 12					
		25	35-1200	2SF≤Px4		8-22	4 5 6 8 10 12 16					
		30	35-1500			9-27	6 8 10 12 16 20					
		35	35-1500			9-32	8 10 12 16 20 24					
		40	50-1500			11-37	10 12 16 20 24 30					
		50	50-1500			11-47	12 16 20 24 30					
							6 8 10 12 16 20 24 30					

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	W	N	(Y) Max.	R	C
		D	L	F	B (Male Thread)						
Male Thread type SFDN SSFJDN PSFDN PSSFJDN RSFDN (D≤30, L≤500)	Male Thread - Thread O.D. = Shaft O.D. Type	15	25-750			5 6 8 10 12	D-W-N≥4 W-N≥3	4 5 6 8 10 12	825 880 990 1100 1200 1500 1500 1500	0.3 or less	
		*16	25-800		(When P=5 and 6) B≤F-2	5 6 8 10 12					
		18	25-900			5 6 8 10 12 16					
		*20	25-1000		(When P=8 / 10) B≤F-3	6 8 10 12 16					
		25	25-1198	2≤F≤Px5		8 10 12 16 20 24					
		*30	25-1498		(When P≤12) B≤F-5	8 10 12 16 20 24					
		35	25-1498			10 12 16 20 24 30					
		40	25-1498			12 16 20 24 30					
		50	25-1498		B≥Pitchx3	16 20 24 30					

*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

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**

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		

Alterations	Alteration to L Dimension Tolerance	Change to Fine Thread	Change to Fine Thread																																																	
	LKC	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> <p>M dimension is equal to MSC.</p> <p>Not applicable to Stepped and Female Thread.</p>	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. <p>P dimension and PMC (PMS) are equal in measurement.</p> <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>	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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