

with Wrench Flats

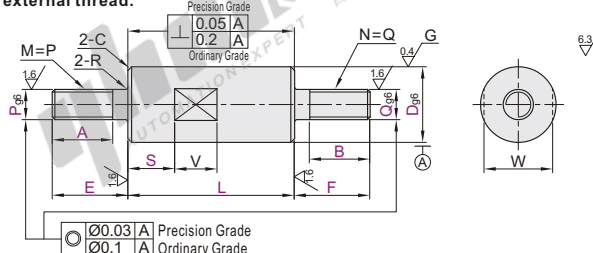
Both Ends Threaded(Ordinary Grade/Precision Grade)

Shafts

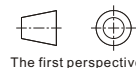
With Wrench Flats		D Tol.	Material		Hardness	Surface Treatment
Ordinary Grade	Precision Grade		GB	Equiv.		
SER02	SER32	g6	GCr15	SUJ2	Induction Hardened Effective Hardened Depth refer to P10 Quench Hardness GCr15 HRC56- 9Cr18Mo Or Corrosion-Resistant Steel With Equivalent Hardness HRC52-	Hard Chrome Plating Plating Hardness HV750- Plating Thickness More Than 3um
SER06	SER36		9Cr18Mo Or Corrosion-Resistant Steel With Equivalent Hardness	SUS440C Or Corrosion-Resistant Steel With Equivalent Hardness		
SER07	SER37					



Note: when A=B=0, there is no external thread.



- ⓐ Circularity, Straightness, Perpendicularity and Changes in Hardness. Please refer to shaft product introduction.
- ⓑ Annealing may lower hardness at shaft end machined areas (effective thread length + approx. 10mm). Please refer to shaft product introduction.
- ⓒ The thread root of the precision shaft has a grinding undercut (1mm wide and 0.1mm depth).



Ordinary Grade

Part Number Code	D _{g6}	1 mm Increment			P-Q Selection	Wrench Flats Dimensions			R	C
		L	E-F	A-B		S	W	V		
SER02 SER06 SER07	6	-0.004 -0.012	20~600		3 4 5	5				
	8	-0.005 -0.014	20~800		3 4 5 6	7	8			
	10				4 5 6 8	8				
	12				5 6 8 10	10				0.5Below
	13		20~1000		5 6 8 10 12	11				
	15	-0.006 -0.017			5 6 8 10 12	13			0.3	
	16			E=2~P×5	5 6 8 10 12	14	10			
	18			F=2~Q×5	5 6 8 10 12 16	16				
	20		20~1200		6 8 10 12 16	17				
	25	-0.007 -0.020			8 10 12 16 20 24	22				
	30				8 10 12 16 20 24	27				1.0Below
	35		20~1500		10 12 16 20 24 30	30	15			
	40	-0.009 -0.025			12 16 20 24 30	36	20			0.5
	50				16 20 24 30	41				

Precision Grade

Part Number Code	D _{g6}	1 mm Increment			P-Q Selection	Wrench Flats Dimensions			R	C
		L	E-F	A-B		S	W	V		
SER32 SER36 SER37	6	-0.004 -0.012	20~300		3 4	5				
	8	-0.005 -0.014			3 4 5 6	7	8			
	10				4 5 6 8	8				
	12				5 6 8 10	10				
	13		20~350		5 6 8 10	11				
	15	-0.006 -0.017			5 6 8 10 12	13			0.3	0.2Below
	16			E=2~P×5	5 6 8 10 12	14	10			
	18			F=2~Q×5	5 6 8 10 12 16	16				
	20				6 8 10 12 16	17				
	25	-0.007 -0.020	20~450		8 10 12 16 20	22				
30				8 10 12 16 20	27	15				

Ordinary Grade

Part Number Code	D	L	E-F	A-B	P-Q	S
SER02	6	20~600	E=2~P×5 F=2~Q×5	According to the use of Request for designation A-B size	3 4 5	According to the use of Request for designation S size
SER06	10	20~800			4 5	

SER02-D8-L80-E10-F10-A6-B6-P3-Q3-S10

Optional Processing

Part Number Code	D	L	E-F	A-B	P-Q	S	Optional Processing Code
SER02	6	20~600	E=2~P×5 F=2~Q×5	According to the use of Request for designation A-B size	3 4 5	According to the use of Request for designation S size	ⓐ PC() PD() QC() QD()
SER06	10	20~800			4 5		

SER02-D8-L80-E10-F10-A6-B6-P3-Q3-S10-LC



Discount price
Per 1~4 5-
Price 100% Additional quotation

Delivery
4



Code	Spec.
LC	<p>Alteration to L Dimension Tolerance</p> <p>Ordering Code LC</p> <ul style="list-style-type: none"> ⓐ 0.1 mm Increment ⓑ When L < 300, L_{±0.03}; ⓒ When 300 ≤ L < 600, L_{±0.05}; ⓓ When L ≥ 600, L_{±0.1}. ⓔ L > 300 's Precision Grade is not applicable.

Code	Spec.																																													
PC() PD() QC() QD()	<p>Change to Fine Thread</p> <p>Ordering Code PC17</p> <ul style="list-style-type: none"> ⓐ (PC/QC): the Fine Thread Pitch corresponds to the Bearing Nut). ⓑ (PD/QD): the Fine Thread Pitch corresponds to the Cylinder). <table border="1"> <thead> <tr> <th>D</th> <th>PC/QC</th> <th>PD/QD</th> </tr> </thead> <tbody> <tr><td>6</td><td>3 4 (5)</td><td></td></tr> <tr><td>8</td><td>3 4 5 6</td><td></td></tr> <tr><td>10</td><td>4 5 6 8</td><td></td></tr> <tr><td>12</td><td>5 6 8 10</td><td>10</td></tr> <tr><td>13</td><td>5 6 8 10 (12)</td><td>10</td></tr> <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>5 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> </tbody> </table> <p>Pitch 0.3 0.5 0.75 1.0 1.5 2 1.5</p> <ul style="list-style-type: none"> ⓐ In selection, P/Q must be changed to PC(PD)/QC(QD). ⓑ In selection, P/Q and PC(PD)/QC(QD) must be the same size. ⓒ Dimensions in () do not apply to Precision Grades. 	D	PC/QC	PD/QD	6	3 4 (5)		8	3 4 5 6		10	4 5 6 8		12	5 6 8 10	10	13	5 6 8 10 (12)	10	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	5 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
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- ⓐ When selecting two or more optional processing, the distance between the processing areas should be greater than 2 mm.
- ⓑ Optional Processing may reduce hardness.