

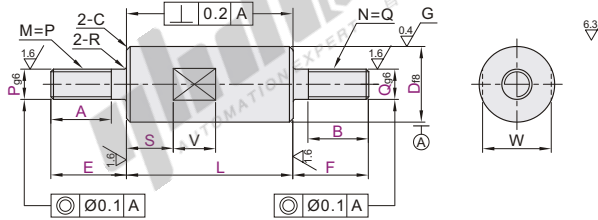
Shafts

Both Ends Threaded with Wrench Flats (D Tol. f8)

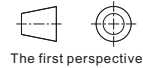
Code	Type	Accuracy Grade	D Tol.	Material		Hardness	Surface Treatment
				GB	Equiv.		
SER11	Both Ends Threaded with Wrench Flats	Ordinary Grade	f8	45	S45C	—	Hard Chrome Plating, Plating Hardness HV750+, Plating Thickness More Than 3µm
SER14				0Cr18Ni9	SUS304		



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



Circularity, Straightness, Perpendicularity and Changes in Hardness. Please refer to shaft product introduction.



Part Number Code	D _{f8}	1 mm Increment			P·Q Selection	Wrench Flats Dimensions			R	C
		L	E·F	A·B		S	W	V		
(D Tol. f8) SER11 SER14	6	-0.010 -0.028	20~600		3 4 5		5			
	8	-0.013 -0.035	20~800		3 4 5 6		7	8		
	10				4 5 6 8		8			
	12				5 6 8 10		10			0.5Below
	13				5 6 8 10 12		11			
	15	-0.016 -0.043	20~1000		5 6 8 10 12		13		0.3	
	16				5 6 8 10 12		14	10		
	18*		20~1200		5 6 8 10 12 16		16			
	20				6 8 10 12 16		17			
	25	-0.020 -0.050			8 10 12 16 20 24		22			
	30				8 10 12 16 20 24		27	15		1.0Below
	35*				10 12 16 20 24 30		30			
	40*	-0.025 -0.064	20~1500		12 16 20 24 30		36			
	50*				16 20 24 30		41	20		

Specifications with * do not apply to SER14.

Optional Processing



Part Number Code	D	L	E·F	A·B	P·Q	S
SER11	8	20~800	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
SER14	10	20~800	E=2·P×5 F=2·Q×5	According to the use of Request for designation A·B size	4 5	According to the use of Request for designation S size

SER11—D8—L80—E10—F10—A6—B6—P3—Q3—S10

Part Number Code	D	L	E·F	A·B	P·Q	S	Optional Processing Code
SER11	8	20~800	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() PS() QC() QS() ...
SER14	10	20~800	E=2·P×5 F=2·Q×5	According to the use of Request for designation A·B size	4 5	According to the use of Request for designation S size	PC() PS() QC() QS() ...

SER11—D8—L80—E10—F10—A6—B6—P3—Q3—S10—LC

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



Code	Spec.
LC	<p>Alteration to L Dimension Tolerance</p> <p>Ordering Code LC</p> <p>0.1 mm Increment</p> <p>When L < 300, L_{±0.03};</p> <p>When 300 ≤ L < 600, L_{±0.05};</p> <p>When L ≥ 600, L_{±0.1}.</p>



Code	Spec.																																																																																																									
PC() PS() QC() QS()	<p>Change to Fine Thread</p> <p>Ordering Code PC17</p> <p>(PC/QC: the Fine Thread Pitch corresponds to the Bearing Nut).</p> <p>(PS/QS: the Fine Thread Pitch corresponds to the Cylinder).</p> <table border="1"> <thead> <tr> <th>D</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>PC/QC</th> <th>PS/QS</th> </tr> </thead> <tbody> <tr> <td>8</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td></td> <td></td> </tr> <tr> <td>10</td> <td>4</td> <td>5</td> <td>6</td> <td>8</td> <td></td> <td></td> </tr> <tr> <td>12</td> <td>5</td> <td>6</td> <td>8</td> <td>10</td> <td></td> <td>10</td> </tr> <tr> <td>13</td> <td>5</td> <td>6</td> <td>8</td> <td>10</td> <td></td> <td>10</td> </tr> <tr> <td>15</td> <td>5</td> <td>6</td> <td>8</td> <td>10</td> <td></td> <td>10/12</td> </tr> <tr> <td>16</td> <td>5</td> <td>6</td> <td>8</td> <td>10</td> <td>12</td> <td>10/12/14</td> </tr> <tr> <td>18</td> <td>5</td> <td>6</td> <td>8</td> <td>10</td> <td>12</td> <td>10/12/14</td> </tr> <tr> <td>20</td> <td>5</td> <td>6</td> <td>8</td> <td>10</td> <td>12</td> <td>10/12/14/18</td> </tr> <tr> <td>25</td> <td>8</td> <td>10</td> <td>12</td> <td>15</td> <td>17</td> <td>10/12/14/18</td> </tr> <tr> <td>30</td> <td>8</td> <td>10</td> <td>12</td> <td>15</td> <td>17</td> <td>10/12/14/18</td> </tr> <tr> <td>35</td> <td>10</td> <td>12</td> <td>15</td> <td>17</td> <td>20</td> <td>10/12/14/18</td> </tr> <tr> <td>40</td> <td>12</td> <td>15</td> <td>17</td> <td>20</td> <td>25</td> <td>10/12/14/18</td> </tr> <tr> <td>50</td> <td>15</td> <td>17</td> <td>20</td> <td>25</td> <td>30</td> <td>10/12/14/18</td> </tr> <tr> <td>Pitch</td> <td>0.35</td> <td>0.5</td> <td>0.75</td> <td>1.0</td> <td>1.5</td> <td>1.5</td> </tr> </tbody> </table> <p>In selection, P/Q must be changed to PC(PS)/QC(QS).</p> <p>In selection, P/Q and PC(PS)/QC(QS) must be the same size.</p>	D	3	4	5	6	PC/QC	PS/QS	8	3	4	5	6			10	4	5	6	8			12	5	6	8	10		10	13	5	6	8	10		10	15	5	6	8	10		10/12	16	5	6	8	10	12	10/12/14	18	5	6	8	10	12	10/12/14	20	5	6	8	10	12	10/12/14/18	25	8	10	12	15	17	10/12/14/18	30	8	10	12	15	17	10/12/14/18	35	10	12	15	17	20	10/12/14/18	40	12	15	17	20	25	10/12/14/18	50	15	17	20	25	30	10/12/14/18	Pitch	0.35	0.5	0.75	1.0	1.5	1.5
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When selecting multiple optional processing, the distance between machined areas should be greater than 2mm.

Optional processing may reduce hardness.

