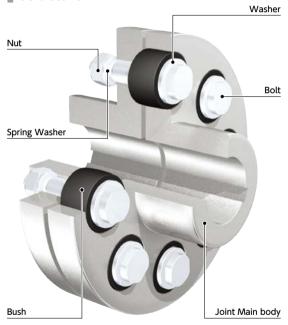
- The most popular flexible shaft coupling in Japan that is compliant with JIS B 1452 - 1991 "Flexible Flanged Shaft Couplings".
- Simple structure comprised of a flange and coupling bolts. Easy-to-mount.
- Bushings can be replaced just by removing coupling bolts. This makes maintenance and service easy.
- While it absorbs misalignment such as eccentricity and argument, it prevents noise by absorbing torsional vibration. It will not transmit thrust load, either.
- Two types are available: Cast Iron FCL and Carbon Steel **FCLS**.







Materi	al/Finish	∅ RoHS
	FCL	FCLS
Joint Main Unit	FC200 or more	S25C or more
Nut	Equivalent to SS400 Trivalent Chromate Treatment	Equivalent to SS400 Trivalent Chromate Treatment
Spring Lock Washers	SWRH62 Trivalent Chromate Treatment	SWRH62 Trivalent Chromate Treatment
Bushing	NBR B (12) -j1a1 (HS (JIS A)=70)	NBR B (12) -j1a1 (HS (JIS A)=70)
Washer	Equivalent to SS400 Trivalent Chromate Treatment	Equivalent to SS400 Trivalent Chromate Treatment
Bolt	Equivalent to SS400 Trivalent Chromate Treatment	Equivalent to SS400 Trivalent Chromate Treatment

• Full bore alteration service capability. We modify for individual shaft requirement that will allow you for immediate use.

NBK.

Additional Setscrew at Shaft Hole / Keyway → P.xxxx Available / Add'l charge



Product Standard

The product standard of the flexible flanged shaft couplings is compliant with JIS B 1452 - 1991 "Flexible Flanged Shaft Couplings".

- Allowable value of the run-out of the joint outer diameter to the shaft hole center, and that of the joint surface near the outer diameter—0.03mm
- Allowance of the bolt hole pitch circle diameter and the bushing insertion hole pitch circle diameter, allowance of the pitch, and the run-out tolerance to the shaft bore center

Pitch Circle Diameter Pitch Circle Diameter and Pitch Allowance Pitch Circle Diameter Run-out Tolerance 60 / 67 / 75 ± 0.16 0.12 85 / 100 / 115 / 132 / 145 ± 0.20 0.14 170 / 180 / 200 / 236 ± 0.26 0.18 260 / 300 / 355 / 450 / 530 ± 0.32 0.22 580 / 600 / 670 ± 0.40 0.28			Ome min
85 / 100 / 115 / 132 / 145	Pitch Circle Diameter		
170 / 180 / 200 / 236 ±0.26 0.18 260 / 300 / 355 / 450 / 530 ±0.32 0.22	60 / 67 / 75	±0.16	0.12
260 / 300 / 355 / 450 / 530 ±0.32 0.22	85 / 100 / 115 / 132 / 145	±0.20	0.14
	170 / 180 / 200 / 236	±0.26	0.18
580 / 600 / 670 ±0.40 0.28	260 / 300 / 355 / 450 / 530	±0.32	0.22
	580 / 600 / 670	±0.40	0.28

• Dimensional allowance of each part of the joint

	Uı	nit : mm
Joint Outside Diameter A	-	g7
Bolt Hole and Bolt a	H7	g7
Washer Inside Diameter*1 a	-	+0.4
Bushing Inside Diameter, Washer Inside Diameter and Bolt Bushing Insertion Area Diameter a	+0.4	e9
Bushing Insertion Hole M	Н8	-
Bushing Outside Diameter p	-	0 -0.4
Bolt Bushing Insertion Area Length m	-	k12

- *1: For those with the standard dimensions of 8, it is $^{+0.2}_{0}$.
- Each symbol is identical to that shown in the Dimension/

remormance to	able.							
Bush width q dime	nsional allowance	Washer thickness t dimensional allowance						
Standard Dimension	Allowance	Standard Dimension	Allowance					
14 / 16 / 18	±0.3	3	+0.03 -0.43					
22.4 / 28 / 40	+0.1 -0.5	4	±0.29					
56 / 80	+0.2 -0.6	5	±0.4					
		7	±0.5					

- For the allowable length tolerances of non-fitting part sections to be cut, refer to JIS B 0405 tolerance class m.
- Performance of the Bushing

•				
Characteristics item		NBR (Nitrile rubber)		
Machine oil		Excellent		
Gasoline		Excellent		
Benzine		Impossible		
Ketone		Impossible		
Alcohol		Excellent		
Acid resistance	Weak acid	Good		
Acid resistance	Strong acid	OK		
Impact resilience		Good		
Abrasion resistance		Excellent		
Aging Resistance		Excellent		
Tensile strength		Excellent		
Heat resistance (max. operating	g temperature, regular use)	90℃		
Cold resistance (min. operating	temperature, regular use)	−20°C		

Alignment adjustment

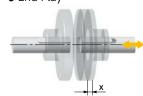
- 1) Although the flexible flanged shaft coupling permits misalignment and transmits torque, if the misalignment exceeds the allowable value, vibration may occur or the life may be rapidly shortened. Be sure to perform alignment adjustment.
- ②Shaft center misalignment includes eccentricity (parallel error of both shaft centers), argument (angle error of both shaft centers), and end-play (shaft direction movement of the shaft). Adjust the shaft alignment so that it will not exceed the allowable value listed in the Dimension/ Performance table in this catalog.
- 3The allowable values of the misalignment listed in the Dimension/Performance table are for the case where any one of eccentricity, argument, and endplay occurs independently. Mixing of two or more misalignment causes each of the allowable values to be reduced to half.
- (4) Misalignment may occur not only in assembling into the device but also due to vibration, thermal expansion, and shaft bearing abrasion during operation. Therefore, it is recommended to keep the misalignment one third of the allowable value or less.
- Eccentricity, Parallel Offset Misalignment



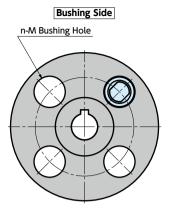
• Argument, Angular Misalignment

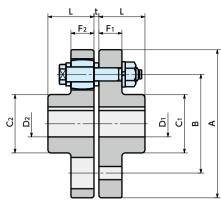


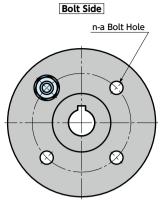
End-Play



FCL/FCLS Flexible Flanged Shaft Coupling







• The bolt hole positions are roughly arranged for the keyway.

Dimensions

Unit:mm

Dank Nissaskası	Α	Prepared hole	L	С		_	F		n	_			Bolt	Coupling bolt
Part Number	А	diameter	L	C ₁	C ₂	В	F1	F ₂	(item)	а	M	t	Draft	Part Number
FCL-90	90	-	28	35.5	35.5	60	14	14	4	8	19	3	50	F1
FCL-100	100	-	35.5	42.5	42.5	67	16	16	4	10	23	3	56	F2
FCL-112	112	_	40	50	50	75	16	16	4	10	23	3	56	F2
FCL-125	125	_	45	56	50	85	18	18	4	14	32	3	64	F3
FCL-140	140	_	50	71	63	100	18	18	6	14	32	3	64	F3
FCL-160	160	-	56	80	80	115	18	18	8	14	32	3	64	F3
FCL-180	180	_	63	90	90	132	18	18	8	14	32	3	64	F3
FCL-200	200	18	71	100	100	145	22.4	22.4	8	20	41	4	85	F4
FCL-224	224	18	80	112	112	170	22.4	22.4	8	20	41	4	85	F4
FCL-250	250	20	90	125	125	180	28	28	8	25	51	4	100	F5
FCL-280	280	30	100	140	140	200	28	40	8	28	57	4	116	F6
FCL-315	315	30	112	160	160	236	28	40	10	28	57	4	116	F6
FCL-355	355	30	125	180	180	260	35.5	56	8	35.5	72	5	150	F7
FCL-400	400	48	125	200	200	300	35.5	56	10	35.5	72	5	150	F7
FCL-450	450	58	140	224	224	355	35.5	56	12	35.5	72	5	150	F7
FCL-560	560	78	160	250	250	450	35.5	56	14	35.5	72	5	150	F7
FCL-630	630	90	180	280	280	530	35.5	56	18	35.5	72	5	150	F7
FCL-710B	710	110	224	315	315	600	56	56	24	35.5	72	5	174	F7L
FCL-711B	710	120	250	355	355	580	80	80	20	45	87	7	240	F8
FCL-800B	800	130	265	375	375	670	80	80	22	45	87	7	240	F8
FCLS-112	112	13	40	50	50	75	16	16	4	10	23	3	56	F2
FCLS-125	125	13	45	56	50	85	18	18	4	14	32	3	64	F3
FCLS-140	140	13	50	71	63	100	18	18	6	14	32	3	64	F3
FCLS-160	160	14	56	80	80	115	18	18	8	14	32	3	64	F3
FCLS-180	180	14	63	90	90	132	18	18	8	14	32	3	64	F3
FCLS-200	200	18	71	100	100	145	22.4	22.4	8	20	41	4	85	F4
FCLS-224	224	18	80	112	112	170	22.4	22.4	8	20	41	4	85	F4
FCLS-250	250	20	90	125	125	180	28	28	8	25	51	4	100	F5
FCLS-280	280	30	100	140	140	200	28	40	8	28	57	4	116	F6
FCLS-315	315	32	112	160	160	236	28	40	10	28	57	4	116	F6
FCLS-355	355	32	125	180	180	260	35.5	56	8	35.5	72	5	150	F7
FCLS-400	400	50	125	200	200	300	35.5	56	10	35.5	72	5	150	F7
FCLS-450	450	60	140	224	224	355	35.5	56	12	35.5	72	5	150	F7
FCLS-560	560	80	160	250	250	450	35.5	56	14	35.5	72	5	150	F7
FCLS-630	630	90	180	280	280	530	35.5	56	18	35.5	72	5	150	F7

Performance

FCL-90 20 20 15 4000 1.4×10 ⁻³ 0.1 1/6 ±2.1 FCL-100 25 25 29 4000 2.4×10 ⁻³ 0.1 1/6 ±2.1 FCL-112 28 28 33 4000 3.9×10 ⁻³ 0.1 1/6 ±2.1 FCL-125 32 28 73 4000 6.6×10 ⁻³ 0.1 1/6 ±2.1 FCL-140 38 35 130 4000 1.9×10 ⁻² 0.2 1/6 ±2.1 FCL-160 45 45 200 4000 1.9×10 ⁻² 0.2 1/6 ±2.1 FCL-180 50 50 230 3500 3.1×10 ⁻² 0.2 1/6 ±2.1 1 FCL-200 56 56 440 3200 6.2×10 ⁻² 0.2 1/6 ±2.8 1 FCL-224 63 63 510 2850 9.9×10 ⁻² 0.2 1/6 ±2.8 2	Mass *2 (kg)
FCL-100	
FCL-112 28 28 33 4000 3.9×10 ⁻³ 0.1 1/6 ±2.1 FCL-125 32 28 73 4000 6.6×10 ⁻³ 0.1 1/6 ±2.1 FCL-140 38 35 130 4000 1.1×10 ⁻² 0.2 1/6 ±2.1 FCL-160 45 45 200 4000 1.9×10 ⁻² 0.2 1/6 ±2.1 FCL-180 50 50 230 3500 3.1×10 ⁻² 0.2 1/6 ±2.1 1 FCL-200 56 56 440 3200 6.2×10 ⁻² 0.2 1/6 ±2.8 1 FCL-244 63 63 510 2850 9.9×10 ⁻² 0.2 1/6 ±2.8 2 FCL-280 80 80 1500 2300 3.3×10 ⁻¹ 0.3 1/6 ±2.8 4 FCL-315 90 90 2200 2050 5.4×10 ⁻¹ 0.3 1/6 ±2.8	1.55
FCL-125 32 28 73 4000 6.6×10 ⁻³ 0.1 1/6 ±2.1 FCL-140 38 35 130 4000 1.1×10 ⁻² 0.2 1/6 ±2.1 FCL-160 45 45 200 4000 1.9×10 ⁻² 0.2 1/6 ±2.1 FCL-180 50 50 50 230 3500 3.1×10 ⁻² 0.2 1/6 ±2.1 1 FCL-200 56 56 440 3200 6.2×10 ⁻² 0.2 1/6 ±2.8 1 FCL-224 63 63 510 2850 9.9×10 ⁻² 0.2 1/6 ±2.8 2 FCL-250 71 71 850 2550 1.9×10 ⁻¹ 0.2 1/6 ±2.8 3 FCL-280 80 80 1500 2300 3.3×10 ⁻¹ 0.3 1/6 ±2.8 4 FCL-315 90 90 2200 2050 5.4×10 ⁻¹ 0.3 1/6 ±2.8 6 FCL-355 100 100 3500 1800 1.1 0.3 1/6 ±3.5 9 FCL-400 110 110 5000 1600 1.8 0.3 1/6 ±3.5 9 FCL-450 125 125 7100 1400 3 0.3 1/6 ±3.5 15 FCL-660 140 140 10000 1150 7 0.3 1/6 ±3.5 15 FCL-630 160 160 1600 1000 34000 900 22 0.3 1/6 ±3.5 31 FCL-710B 180 180 25000 900 22 0.3 1/6 ±3.5 31 FCL-710B 180 180 25000 900 22 0.3 1/6 ±3.5 49 FCL-312 30 30 33 6000 4.0×10 ⁻³ 0.1 1/6 ±2.1 FCL-512 35 35 30 73 6000 6.8×10 ⁻³ 0.1 1/6 ±2.1 FCL-512 35 55 55 230 5250 3.2×10 ⁻² 0.2 1/6 ±2.1 FCL-520 60 60 60 440 480 6.8×10 ⁻³ 0.1 1/6 ±2.1 FCL-520 60 60 60 440 4800 6.3×10 ⁻² 0.2 1/6 ±2.1 FCL-5200 60 60 60 440 4800 6.3×10 ⁻² 0.2 1/6 ±2.1 FCL-5200 60 60 60 440 4800 6.3×10 ⁻² 0.2 1/6 ±2.8 12 FCL-5224 70 70 510 4300 1.0×10 ⁻¹ 0.2 1/6 ±2.8 12	2.32
FCL-140 38 35 130 4000 1.1×10 ⁻² 0.2 1/6 ±2.1 FCL-160 45 45 200 4000 1.9×10 ⁻² 0.2 1/6 ±2.1 FCL-180 50 50 230 3500 3.1×10 ⁻² 0.2 1/6 ±2.1 1 FCL-200 56 56 440 3200 6.2×10 ⁻² 0.2 1/6 ±2.8 1 FCL-224 63 63 510 2850 9.9×10 ⁻² 0.2 1/6 ±2.8 2 FCL-250 71 71 850 2550 1.9×10 ⁻¹ 0.2 1/6 ±2.8 2 FCL-280 80 80 1500 2300 3.3×10 ⁻¹ 0.3 1/6 ±2.8 4 FCL-315 90 90 2200 2050 5.4×10 ⁻¹ 0.3 1/6 ±2.8 4 FCL-400 110 110 5000 1600 1.8 0.3 1/	3.10
FCL-160 45 45 200 4000 1.9×10 ⁻² 0.2 1/6 ±2.1 FCL-180 50 50 230 3500 3.1×10 ⁻² 0.2 1/6 ±2.1 1 FCL-200 56 56 440 3200 6.2×10 ⁻² 0.2 1/6 ±2.8 1 FCL-224 63 63 510 2850 9.9×10 ⁻² 0.2 1/6 ±2.8 2 FCL-250 71 71 850 2550 1.9×10 ⁻¹ 0.2 1/6 ±2.8 2 FCL-280 80 80 1500 2300 3.3×10 ⁻¹ 0.3 1/6 ±2.8 4 FCL-315 90 90 2200 2050 5.4×10 ⁻¹ 0.3 1/6 ±2.8 6 FCL-355 100 100 3500 1800 1.1 0.3 1/6 ±3.5 9 FCL-400 110 110 5000 1600 1.8 0.3	4.18
FCL-180 50 50 230 3500 3.1×10 ⁻² 0.2 1/6 ±2.1 1 FCL-200 56 56 440 3200 6.2×10 ⁻² 0.2 1/6 ±2.8 1 FCL-224 63 63 510 2850 9.9×10 ⁻² 0.2 1/6 ±2.8 2 FCL-250 71 71 850 2550 1.9×10 ⁻¹ 0.2 1/6 ±2.8 3 FCL-280 80 80 1500 2300 3.3×10 ⁻¹ 0.3 1/6 ±2.8 4 FCL-315 90 90 2200 2050 5.4×10 ⁻¹ 0.3 1/6 ±2.8 4 FCL-355 100 100 3500 1800 1.1 0.3 1/6 ±3.5 9 FCL-400 110 110 5000 1600 1.8 0.3 1/6 ±3.5 15 FCL-450 125 125 7100 1400 3	5.80
FCL-200 56 56 440 3200 6.2×10 ⁻² 0.2 1/6 ±2.8 1 FCL-224 63 63 510 2850 9.9×10 ⁻² 0.2 1/6 ±2.8 2 FCL-250 71 71 850 2550 1.9×10 ⁻¹ 0.2 1/6 ±2.8 3 FCL-280 80 80 1500 2300 3.3×10 ⁻¹ 0.3 1/6 ±2.8 4 FCL-315 90 90 2200 2050 5.4×10 ⁻¹ 0.3 1/6 ±2.8 4 FCL-355 100 100 3500 1800 1.1 0.3 1/6 ±3.5 9 FCL-400 110 110 5000 1600 1.8 0.3 1/6 ±3.5 15 FCL-450 125 125 7100 1400 3 0.3 1/6 ±3.5 15 FCL-560 140 140 10000 1150 7 <t< th=""><th>8.22</th></t<>	8.22
FCL-224 63 63 510 2850 9.9×10 ⁻² 0.2 1/6 ±2.8 2 FCL-250 71 71 850 2550 1.9×10 ⁻¹ 0.2 1/6 ±2.8 3 FCL-280 80 80 1500 2300 3.3×10 ⁻¹ 0.3 1/6 ±2.8 4 FCL-315 90 90 2200 2050 5.4×10 ⁻¹ 0.3 1/6 ±2.8 4 FCL-355 100 100 3500 1800 1.1 0.3 1/6 ±3.5 9 FCL-400 110 110 5000 1600 1.8 0.3 1/6 ±3.5 11 FCL-450 125 125 7100 1400 3 0.3 1/6 ±3.5 15 FCL-560 140 140 10000 1150 7 0.3 1/6 ±3.5 23 FCL-630 160 160 16000 1000 11 0	11.1
FCL-250 71 71 850 2550 1.9×10 ⁻¹ 0.2 1/6 ±2.8 3 FCL-280 80 80 1500 2300 3.3×10 ⁻¹ 0.3 1/6 ±2.8 4 FCL-315 90 90 2200 2050 5.4×10 ⁻¹ 0.3 1/6 ±2.8 6 FCL-355 100 100 3500 1800 1.1 0.3 1/6 ±3.5 9 FCL-400 110 110 5000 1600 1.8 0.3 1/6 ±3.5 11 FCL-450 125 125 7100 1400 3 0.3 1/6 ±3.5 15 FCL-560 140 140 10000 1150 7 0.3 1/6 ±3.5 23 FCL-630 160 160 16000 1000 11 0.3 1/6 ±3.5 23 FCL-710B 180 180 25000 900 22 0.3<	16.6
FCL-280 80 80 1500 2300 3.3×10 ⁻¹ 0.3 1/6 ±2.8 4 FCL-315 90 90 2200 2050 5.4×10 ⁻¹ 0.3 1/6 ±2.8 6 FCL-355 100 100 3500 1800 1.1 0.3 1/6 ±3.5 9 FCL-400 110 110 5000 1600 1.8 0.3 1/6 ±3.5 11 FCL-450 125 125 7100 1400 3 0.3 1/6 ±3.5 15 FCL-560 140 140 10000 1150 7 0.3 1/6 ±3.5 23 FCL-630 160 160 16000 1000 11 0.3 1/6 ±3.5 23 FCL-710B 180 180 25000 900 22 0.3 1/6 ±4.9 68 FCL-711B 200 200 34000 800 52 0.3 <th>22.0</th>	22.0
FCL-315 90 90 2200 2050 5.4×10 ⁻¹ 0.3 1/6 ±2.8 6 FCL-355 100 100 3500 1800 1.1 0.3 1/6 ±3.5 9 FCL-400 110 110 5000 1600 1.8 0.3 1/6 ±3.5 11 FCL-450 125 125 7100 1400 3 0.3 1/6 ±3.5 15 FCL-560 140 140 10000 1150 7 0.3 1/6 ±3.5 23 FCL-630 160 160 16000 1000 11 0.3 1/6 ±3.5 23 FCL-710B 180 180 25000 900 22 0.3 1/6 ±3.5 49 FCL-711B 200 200 34000 900 29 0.3 1/6 ±4.9 68 FCLS-112 30 30 33 6000 4.0×10 ⁻³ 0.1 <th>32.2</th>	32.2
FCL-355 100 100 3500 1800 1.1 0.3 1/6 ±3.5 9 FCL-400 110 110 5000 1600 1.8 0.3 1/6 ±3.5 11 FCL-450 125 125 7100 1400 3 0.3 1/6 ±3.5 15 FCL-560 140 140 10000 1150 7 0.3 1/6 ±3.5 23 FCL-630 160 160 16000 1000 11 0.3 1/6 ±3.5 31 FCL-710B 180 180 25000 900 22 0.3 1/6 ±3.5 49 FCL-711B 200 200 34000 900 29 0.3 1/6 ±4.9 68 FCLS-112 30 30 33 6000 52 0.3 1/6 ±4.9 85 FCLS-125 35 30 73 6000 6.8×10 ⁻³ 0.1	45.0
FCL-400 110 110 5000 1600 1.8 0.3 1/6 ±3.5 11 FCL-450 125 125 7100 1400 3 0.3 1/6 ±3.5 15 FCL-560 140 140 10000 1150 7 0.3 1/6 ±3.5 23 FCL-630 160 160 16000 1000 11 0.3 1/6 ±3.5 31 FCL-710B 180 180 25000 900 22 0.3 1/6 ±3.5 49 FCL-711B 200 200 34000 900 29 0.3 1/6 ±4.9 68 FCL-80BB 210 210 45000 800 52 0.3 1/6 ±4.9 85 FCLS-112 30 30 33 6000 4.0×10-3 0.1 1/6 ±2.1 FCLS-125 35 30 73 6000 6.8×10-3 0.1 1/6	61.4
FCL-450 125 125 7100 1400 3 0.3 1/6 ±3.5 15 FCL-560 140 140 1000 1150 7 0.3 1/6 ±3.5 23 FCL-630 160 160 16000 1000 11 0.3 1/6 ±3.5 31 FCL-710B 180 180 25000 900 22 0.3 1/6 ±3.5 49 FCL-711B 200 200 34000 900 29 0.3 1/6 ±4.9 68 FCL-800B 210 210 45000 800 52 0.3 1/6 ±4.9 85 FCLS-112 30 30 33 6000 4.0×10 ⁻³ 0.1 1/6 ±2.1 1/6 ±2.1 1/6 ±2.1 1/6 ±2.1 1/6 ±2.1 1/6 ±2.1 1/6 ±2.1 1/6 ±2.1 1/6 ±2.1 1/6 ±2.1 1/6 ±2.1	94.7
FCL-560 140 140 10000 1150 7 0.3 1/6 ±3.5 23 FCL-630 160 160 16000 1000 11 0.3 1/6 ±3.5 31 FCL-710B 180 180 25000 900 22 0.3 1/6 ±3.5 49 FCL-711B 200 200 34000 900 29 0.3 1/6 ±4.9 68 FCL-800B 210 210 45000 800 52 0.3 1/6 ±4.9 85 FCLS-112 30 30 33 6000 4.0×10 ⁻³ 0.1 1/6 ±2.1 1/6 ±2.1 FCLS-125 35 30 73 6000 6.8×10 ⁻³ 0.1 1/6 ±2.1 FCLS-140 42 38 130 6000 1.1×10 ⁻² 0.2 1/6 ±2.1 FCLS-160 48 48 200 6000 2.0×10 ⁻² 0.2	118
FCL-630 160 160 16000 1000 11 0.3 1/6 ±3.5 31 FCL-710B 180 180 25000 900 22 0.3 1/6 ±3.5 49 FCL-711B 200 200 34000 900 29 0.3 1/6 ±4.9 68 FCL-800B 210 210 45000 800 52 0.3 1/6 ±4.9 85 FCLS-112 30 30 33 6000 4.0×10 ⁻³ 0.1 1/6 ±2.1 FCLS-125 35 30 73 6000 6.8×10 ⁻³ 0.1 1/6 ±2.1 FCLS-140 42 38 130 6000 1.1×10 ⁻² 0.2 1/6 ±2.1 FCLS-160 48 48 200 6000 2.0×10 ⁻² 0.2 1/6 ±2.1 FCLS-180 55 55 230 5250 3.2×10 ⁻² 0.2 1/6 ±2.1 1 <td>157</td>	157
FCL-710B 180 25000 900 22 0.3 1/6 ±3.5 49 FCL-711B 200 200 34000 900 29 0.3 1/6 ±4.9 68 FCL-800B 210 210 45000 800 52 0.3 1/6 ±4.9 85 FCLS-112 30 30 33 6000 4.0×10 ⁻³ 0.1 1/6 ±2.8 1/6 ±2.8 1 1/	238
FCL-711B 200 200 34000 900 29 0.3 1/6 ±4.9 68 FCL-800B 210 210 45000 800 52 0.3 1/6 ±4.9 85 FCLS-112 30 30 33 6000 4.0×10 ⁻³ 0.1 1/6 ±2.1 FCLS-125 35 30 73 6000 6.8×10 ⁻³ 0.1 1/6 ±2.1 FCLS-140 42 38 130 6000 1.1×10 ⁻² 0.2 1/6 ±2.1 FCLS-160 48 48 200 6000 2.0×10 ⁻² 0.2 1/6 ±2.1 FCLS-180 55 55 230 5250 3.2×10 ⁻² 0.2 1/6 ±2.1 1 FCLS-200 60 60 440 4800 6.3×10 ⁻² 0.2 1/6 ±2.8 1 FCLS-224 70 70 510 4300 1.0×10 ⁻¹ 0.2 1/6 ±2.8	316
FCL-800B 210 210 45000 800 52 0.3 1/6 ±4.9 85 FCLS-112 30 30 33 6000 4.0×10 ⁻³ 0.1 1/6 ±2.1 1 1/6 ±2.1 1/6 ±2.1 1 1/6 ±2.8 1 1/6 ±2.8 1 1/6 ±2.8 1 1/6 ±2.8 1 1/6 ±2.8 1 1/6 ±2.8 1 1/6	492
FCLS-112 30 30 33 6000 4.0×10 ⁻³ 0.1 1/6 ±2.1 FCLS-125 35 30 73 6000 6.8×10 ⁻³ 0.1 1/6 ±2.1 FCLS-140 42 38 130 6000 1.1×10 ⁻² 0.2 1/6 ±2.1 FCLS-160 48 48 200 6000 2.0×10 ⁻² 0.2 1/6 ±2.1 FCLS-180 55 55 230 5250 3.2×10 ⁻² 0.2 1/6 ±2.1 1 FCLS-200 60 60 440 4800 6.3×10 ⁻² 0.2 1/6 ±2.8 1 FCLS-224 70 70 510 4300 1.0×10 ⁻¹ 0.2 1/6 ±2.8 2	683
FCLS-125 35 30 73 6000 6.8×10 ⁻³ 0.1 1/6 ±2.1 FCLS-140 42 38 130 6000 1.1×10 ⁻² 0.2 1/6 ±2.1 FCLS-160 48 48 200 6000 2.0×10 ⁻² 0.2 1/6 ±2.1 FCLS-180 55 55 230 5250 3.2×10 ⁻² 0.2 1/6 ±2.1 1 FCLS-200 60 60 440 4800 6.3×10 ⁻² 0.2 1/6 ±2.8 1 FCLS-224 70 70 510 4300 1.0×10 ⁻¹ 0.2 1/6 ±2.8 2	855
FCLS-140 42 38 130 6000 1.1×10 ⁻² 0.2 1/6 ±2.1 FCLS-160 48 48 200 6000 2.0×10 ⁻² 0.2 1/6 ±2.1 FCLS-180 55 55 230 5250 3.2×10 ⁻² 0.2 1/6 ±2.1 1 FCLS-200 60 60 440 4800 6.3×10 ⁻² 0.2 1/6 ±2.8 1 FCLS-224 70 70 510 4300 1.0×10 ⁻¹ 0.2 1/6 ±2.8 2	3.13
FCLS-160 48 48 200 6000 2.0×10 ⁻² 0.2 1/6 ±2.1 FCLS-180 55 55 230 5250 3.2×10 ⁻² 0.2 1/6 ±2.1 1 FCLS-200 60 60 440 4800 6.3×10 ⁻² 0.2 1/6 ±2.8 1 FCLS-224 70 70 510 4300 1.0×10 ⁻¹ 0.2 1/6 ±2.8 2	4.23
FCLS-180 55 55 230 5250 3.2×10 ⁻² 0.2 1/6 ±2.1 1 FCLS-200 60 60 440 4800 6.3×10 ⁻² 0.2 1/6 ±2.8 1 FCLS-224 70 70 510 4300 1.0×10 ⁻¹ 0.2 1/6 ±2.8 2	5.90
FCLS-200 60 60 440 4800 6.3×10 ⁻² 0.2 1/6 ±2.8 1 FCLS-224 70 70 510 4300 1.0×10 ⁻¹ 0.2 1/6 ±2.8 2	8.38
FCLS-224 70 70 510 4300 1.0×10 ⁻¹ 0.2 1/6 ±2.8 2	11.4
	17.1
	22.8
FCLS-250 75 75 850 3800 1.9×10 ⁻¹ 0.2 1/6 ±2.8 3	33.3
FCLS-280 85 85 1500 3450 3.4×10 ⁻¹ 0.3 1/6 ±2.8 4	46.6
FCLS-315 100 100 2200 3050 5.6×10 ⁻¹ 0.3 1/6 ±2.8 6	63.3
FCLS-355 110 110 3500 2700 1.2 0.3 1/6 ±3.5 9	97.8
FCLS-400 125 125 5000 2400 1.9 0.3 1/6 ±3.5 12	122
	162
	246
FCLS-630 170 170 16000 1500 12 0.3 1/6 ±3.5 32	328

*1: These are values with max. bore diameter.

*2: These are pilot hole values.

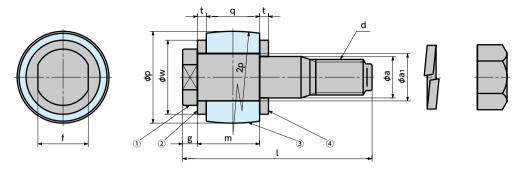
 Full bore alteration service capability.
 We modify for individual shaft requirement that will allow you for immediate use.

Additional Setscrew at Shaft Hole / Keyway → P.xxxx Available / Add'l charge • Part number specification

FCL - 200

Product Outside Diameter Code

FCL/FCLS Flexible Flanged Shaft Coupling



Bolt Set Dimensions

Unit:mm

Bolt set	Bush	Nominal	1) Bolt							2), 4) Washer		3) Bush		Tightening torque
Part Number	Part Number	a×l	d	a1	а	f	g	m	l	w	t	р	q	(N·m)
F1-SET	F1-G	8×50	M8	9	8	10	4	17	50	14	3	18	14	11
F2-SET	F2-G	10×56	M10	12	10	13	4	19	56	18	3	22	16	22
F3-SET	F3-G	14×64	M12	16	14	17	5	21	64	25	3	31	18	39
F4-SET	F4-G	20×85	M20	22.4	20	24	5	26.4	85	32	4	40	22.4	190
F5-SET	F5-G	25×100	M24	28	25	30	6	32	100	40	4	50	28	330
F6-SET	F6-G	28×116	M24	31.5	28	32	6	44	116	45	4	56	40	330
F7-SET	F7-G	35.5×150	M30	40	35.5	41	8	61	150	56	5	71	56	650
F7L-SET	F7-G	35.5×174	M30	40	35.5	41	8	61	174	56	5	71	56	650
F8-SET	F8-G	45×240	M42	50	45	50	10	87	240	71	7	85	80	1800

Reference Material

• Surface pressure of the bushing and the bending stress of the bolt

	Rated Torque (N • m)	Pitch Circle Diameter B (mm)		Load per Piece*1 (N)	a×a1	Inner Periphery Pressure P1 (MPa)	Bushing Width q (mm)	Clearance t (mm)	t+q/2	Bending Moment (N·m)	Bolt Diameter a (mm)	Section Modulus $\pi a^3 / 32$ (mm ³)	Bending Stress σ (MPa)
90	4.9	60	4	82	14×9	0.65	14	3	10	0.82	8	50.3	16.2
100	9.8	67	4	146	16×12	0.76	16	3	11	1.61	10	98.2	16.4
112	15.7	75	4	209	16×12	1.09	16	3	11	2.30	10	98.2	23.4
125	24.5	85	4	288	18×16	1.00	18	3	12	3.46	14	269.4	12.8
140	49	100	6	327	18×16	1.13	18	3	12	3.92	14	269.4	14.6
160	110	115	8	478	18×16	1.66	18	3	12	5.74	14	269.4	21.3
180	157	132	8	595	18×16	2.06	18	3	12	7.14	14	269.4	26.5
200	245	145	8	845	22.4×22.4	1.68	22.4	4	15.2	12.8	20	785.4	16.4
224	392	170	8	1150	22.4×22.4	2.30	22.4	4	15.2	17.5	20	785.4	22.3
250	618	180	8	1720	28×28	2.19	28	4	18	30.9	25	1535	20.1
280	980	200	8	2450	40×32	1.94	40	4	24	58.8	28	2155	27.3
315	1570	236	10	2660	40×32	2.11	40	4	24	63.9	28	2155	29.6
355	2450	260	8	4710	56×40	2.10	56	5	33	155	35.5	4390	35.4
400	3920	300	10	5230	56×40	2.33	56	5	33	172	35.5	4390	39.3
450	6180	355	12	5800	56×40	2.59	56	5	33	191	35.5	4390	43.6
560	9800	450	14	6220	56×40	2.78	56	5	33	205	35.5	4390	46.8
630	15700	530	18	6580	56×40	2.94	56	5	33	217	35.5	4390	49.5
710B	24500	600	24	6810	56×40	3.04	56	5	33	225	35.5	4390	51.3
711B	33300	580	20	11500	80×50	2.88	80	7	47	541	45	8950	60.4
800B	45000	670	22	12200	80×50	3.05	80	7	47	573	45	8950	64.0

^{*1:} The effective number of bolts is calculated as half of the actual number of bolts "n".