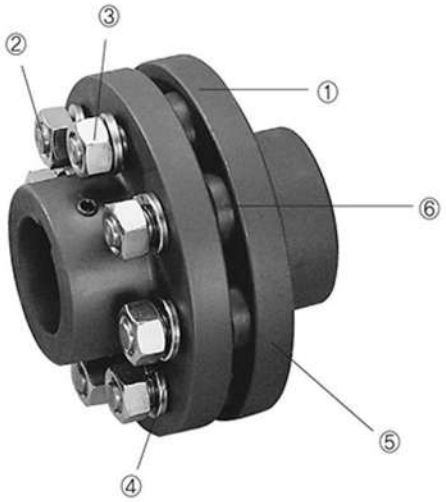
FCL Coupling

Roflex®



1. Flange hub
2. Reamer Bolt
3. Nut
4. Spring Washer
5. Bush
6. Plain Washer

Structure and Material

1. Flange Hub : KS D 4301 GC 20 or KS D 3701 SF 45
2. Reamer Bolt : KS D 3752, SM45C
3. Nut : KS D 3503 SS 400
4. Spring Washer : KS D 3559 HSWR62B or HSWR 5
5. Bush : KS M 6617 NBR(HS=70)
6. Plain Washer: KS D 3503 SS 400

Application

1. To prevent the transmission under vibration and shock.
2. To transmit power under parallel misalignment or angular misalignment.
3. To transmit power under end floating.
4. When reverse revolution is required.
5. When smooth starting is required.

■ Principal use

Pump, Blower, Compressor, Speed change gear, Converyor, Crane, Hoist, Chemical machine, Construction machine, Cement mixer, Tractor, Metal processing machine. Rolling mill, Bending machine, Textile machine, Spinning and weaving machinery.

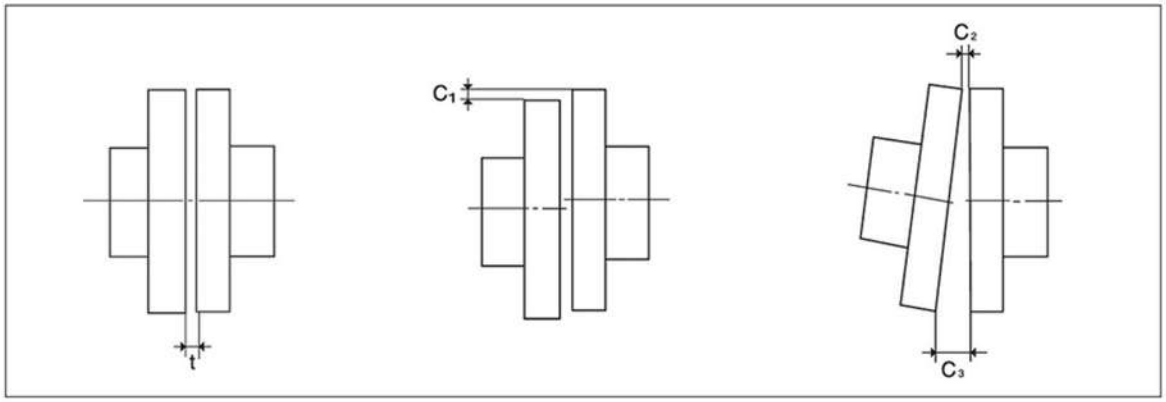
Characteristic & Merit

When connecting the line shaft, flexible flange coupling has many requirements with simple assembly / disassembly and extemely lowest price.

1. Transmits power smoothly.
2. Absorb shock load and vibration.
3. Easy Replacement of parts.
4. Simple construction.
5. Easy assemble and disassembly

Instruction for Installation

1. When Flange outside diameter fits tightly without gap. you must set the center ot the driving and the driven shaft precisely.
2. To maintain rubber bush for a long time, make C1, C2, C3 within 0.05㎜ as the following figures.
3. The value of 't' is equirelent to thickness of washer.



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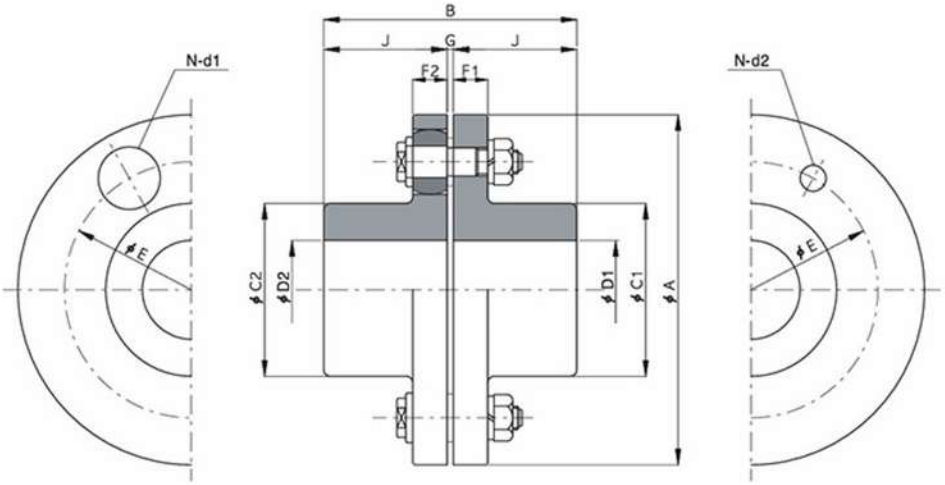
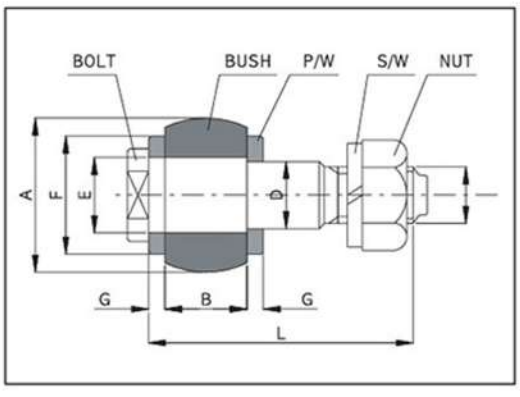


SIZE	HP per 100 rpm	Rated torque (kgf.cm)	Max speed (rpm)	Bore Dia (mm)			Dimensions(mm)												Cplg WT (kgf)	GD² (kgf.m²)
				Max.		Min.	A	B	C1	C2	E	F1	F2	J	G	BOLT Hole				
				D1	D2											N	d1	d2		
FCL 90	0.07	50	4,000	20		-	90	59	35.5		60	14		28	3	4	19	8	1.4	0.00532
FCL 100	0.14	100	4,000	25		-	100	74	42.5		67	16		35.5	3	4	23	10	2.1	0.00948
FCL 112	0.23	161	4,000	28		16	112	83	50		75	16		40	3	4	23	10	2.7	0.0152
FCL 125	0.35	250	4,000	32	28	18	125	93	56	50	85	18		45	3	4	32	14	3.5	0.0258
FCL 140	0.67	501	4,000	38	35	20	140	103	71	63	100	18		50	3	6	32	14	4.9	0.0422
FCL 160	1.56	1,120	4,000	45		25	160	115	80		115	18		56	3	8	32	14	6.8	0.0741
FCL 180	2.24	1,607	3,500	50		28	180	129	90		132	18		63	3	8	32	14	9.6	0.121
FCL 200	3.50	2,503	3,200	56		32	200	146	100		145	22.4		71	4	8	41	20	13.2	0.241
FCL 224	5.59	4,003	2,850	63		35	224	164	112		170	22.4		80	4	8	41	20	18.4	0.384
FCL 250	8.80	6,302	2,550	71		40	250	184	125		180	28		90	4	8	51	25	26.0	0.720
FCL 280	14	10,032	2,300	80		50	280	204	140		200	28	40	100	4	8	57	28	36.5	1.29
FCL 315	22	16,071	2,050	90		63	315	228	160		236	28	40	112	4	10	57	28	49.1	2.12
FCL 355	35	25,032	1,800	100		71	355	255	180		260	35.5	56	125	5	8	72	35.5	74.9	4.42
FCL 400	56	40,031	1,600	110		80	400	255	200		300	35.5	56	125	5	10	72	35.5	94.3	7.10
FCL 450	88	63,018	1,400	125		90	450	285	224		355	35.5	56	140	5	12	72	35.5	127.8	11.5
FCL 560	140	100,030	1,150	140		100	560	325	250		450	35.5	56	160	5	14	72	35.5	206.3	27.3
FCL 630	223	160,028	1,000	160		110	630	365	280		530	35.5	56	180	5	18	72	35.5	277.0	44.1



Bolt No.	A	F	E	D	M	B	G	L
1	18	14	9	8	8	14	3	50
2	22	18	12	10	10	16	3	56
3	31	25	16	14	12	18	3	64
4	40	32	22.4	20	20	22.4	4	85
5	50	40	28	25	24	28	4	100
6	56	45	31.5	28	24	40	4	116
8	71	56	40	35.5	30	56	5	150

FCL Spacer Coupling

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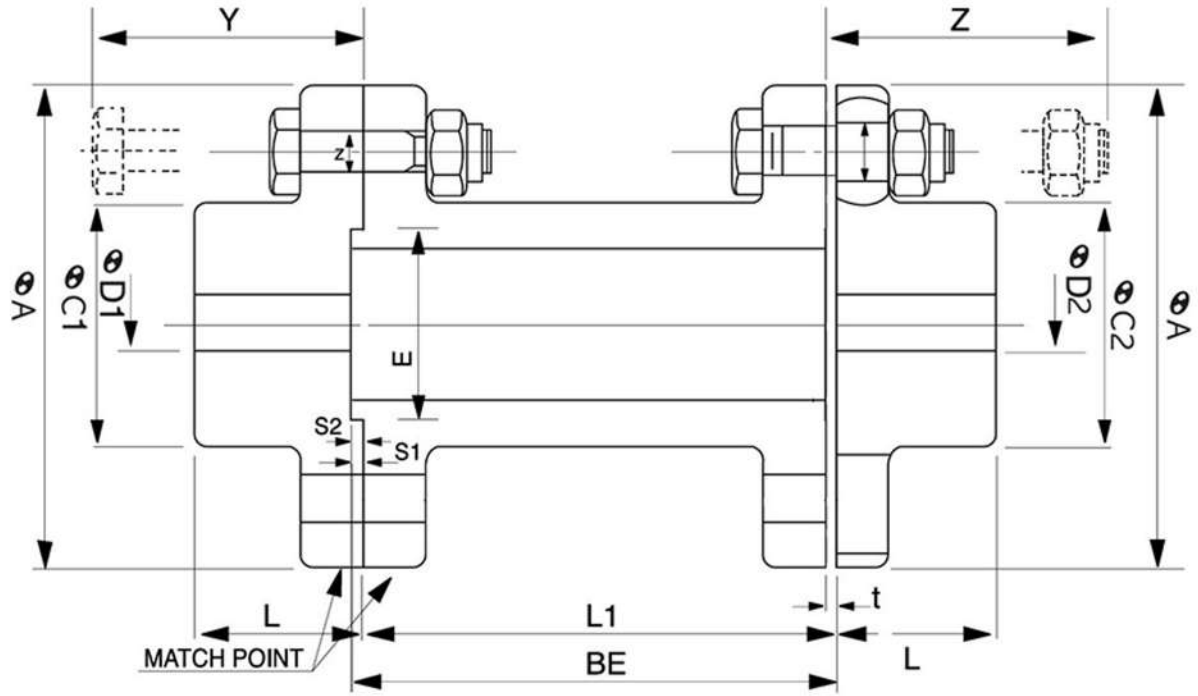

Size	Rating Torque (kgf · m)	Max. Speed (rpm)	Dimensions(㎜)							Dimensions(㎜)			
			Bore Diameter			A	BE	L_1	T	For rigid		For rigid	
			Min.	Max. D_1	Max. D_2					N	Size $a_1 \times \ell$	N	Size $a_1 \times \ell$
125×BE	2.5	4,000	18	32	28	125	100	97	3	4	14×53L	4	14×64L
140×BE	5	4,000	20	38	35	140	100,140	97,137	3	6	14×53L	6	14×64L
160×BE	11.2	4,000	25	45		160	100,140	97,137	3	8	14×53L	8	14×64L
180×BE	16	3,500	28	50		180	100,140,180	97,137,177	3	8	14×53L	8	14×64L
200×BE	25	3,200	32	56		200	140,180,220	136,176,216	4	8	16×67L	8	20×85L
224×BE	40	2,850	35	63		224	140,180,220	136,176,216	4	8	16×67L	8	20×85L
250×BE	63	2,550	40	71		224	140,180,220,260	136,176,216,256	4	8	20×82L	8	25×100L
280×BE	100	2,300	50	80		280	180,220,260,300	176,216,256,296	4	8	20×82L	8	28×116L
315×BE	160	2,050	63	90		315	180,220,260,300	176,216,256,296	4	10	20×82L	10	28×116L