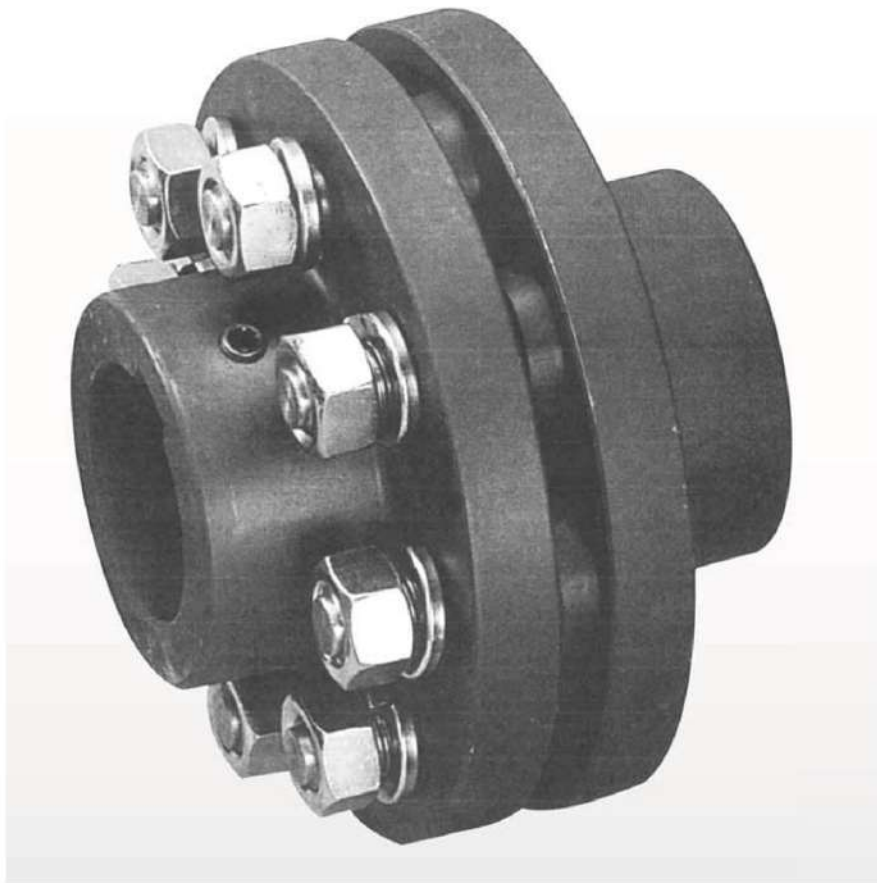




CROWN PIN COUPLINGS

Characteristic

When connecting the line shaft, exible ange coupling has many merits with simple assembly/disassembly and extreemly 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.

Applications

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

Principal use

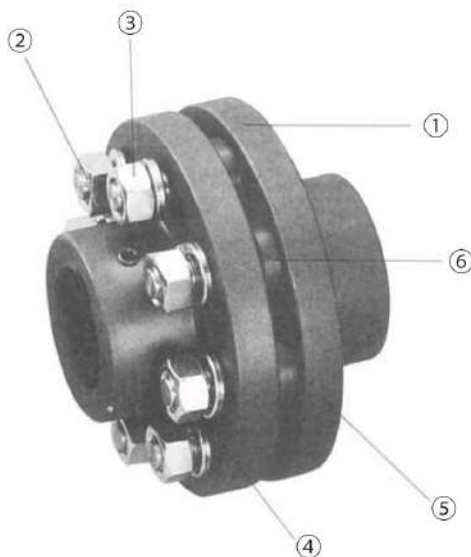
Pump, Blower. Compressor, Speed change gear, Conveyor, Crane, Hoist, Chemical machinery, Construction machinery, Cement mixer, Tractor, Metal processing machinery, Rolling mill, Bending machinery, Textile machinery, Spinning and weaving machinery.

Structure and Material

Flange Flexible Couplings are as follows.

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

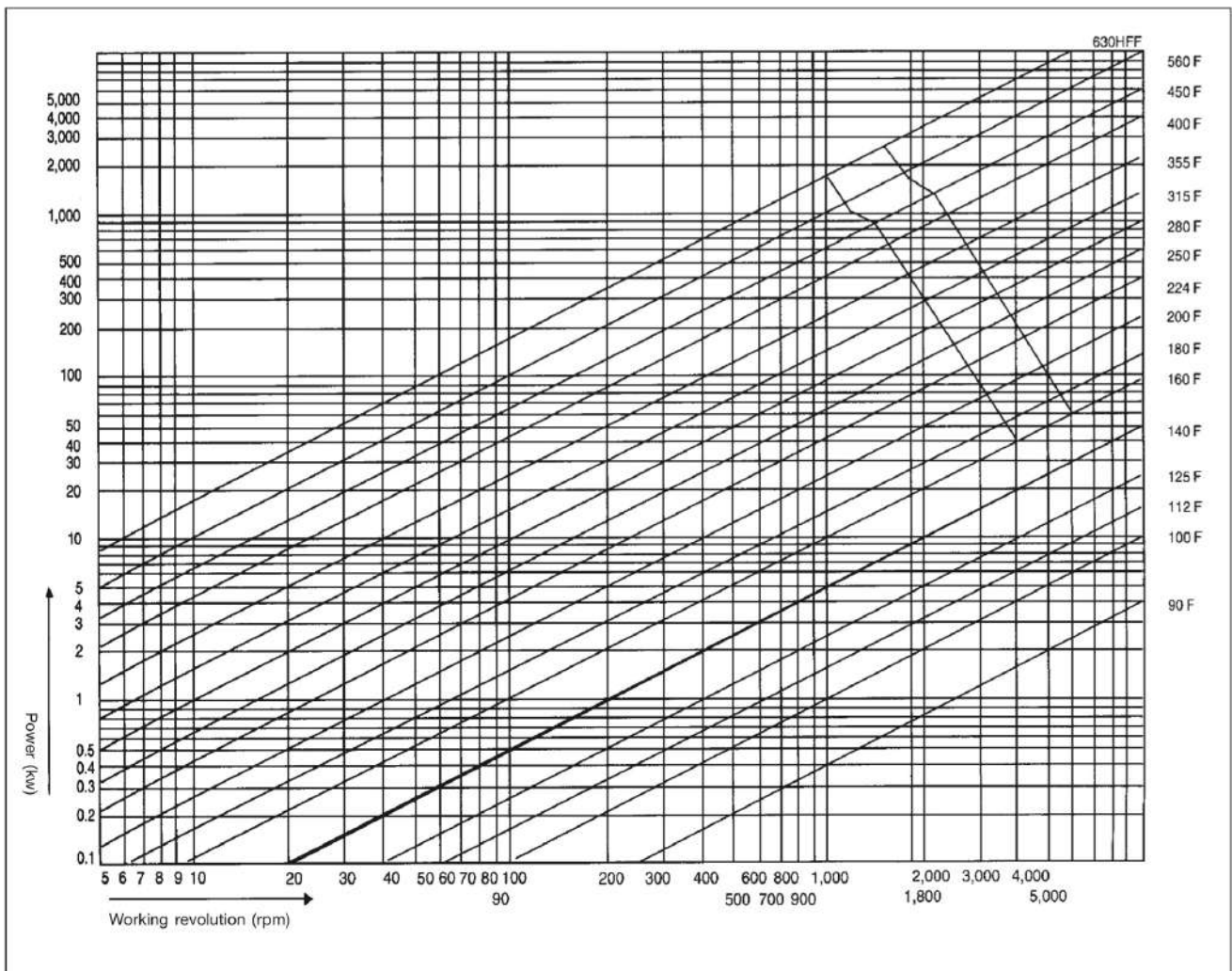
Structure



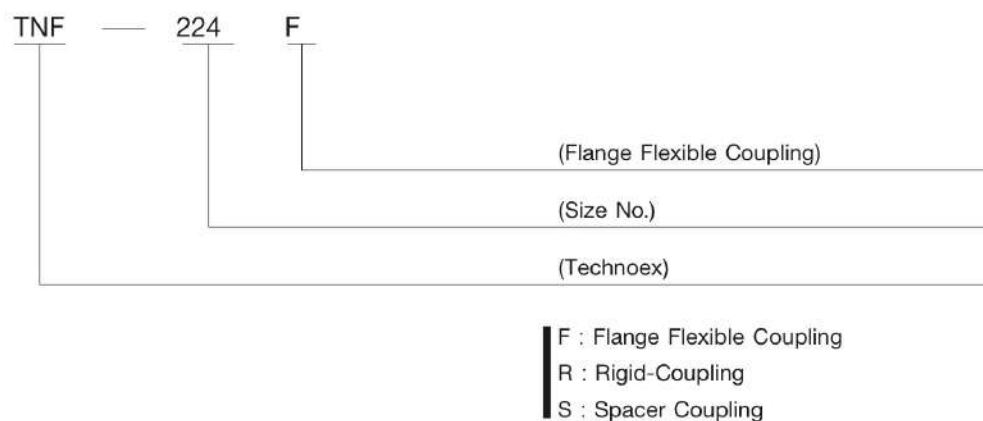
Part Numbers

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

Torque Diagram

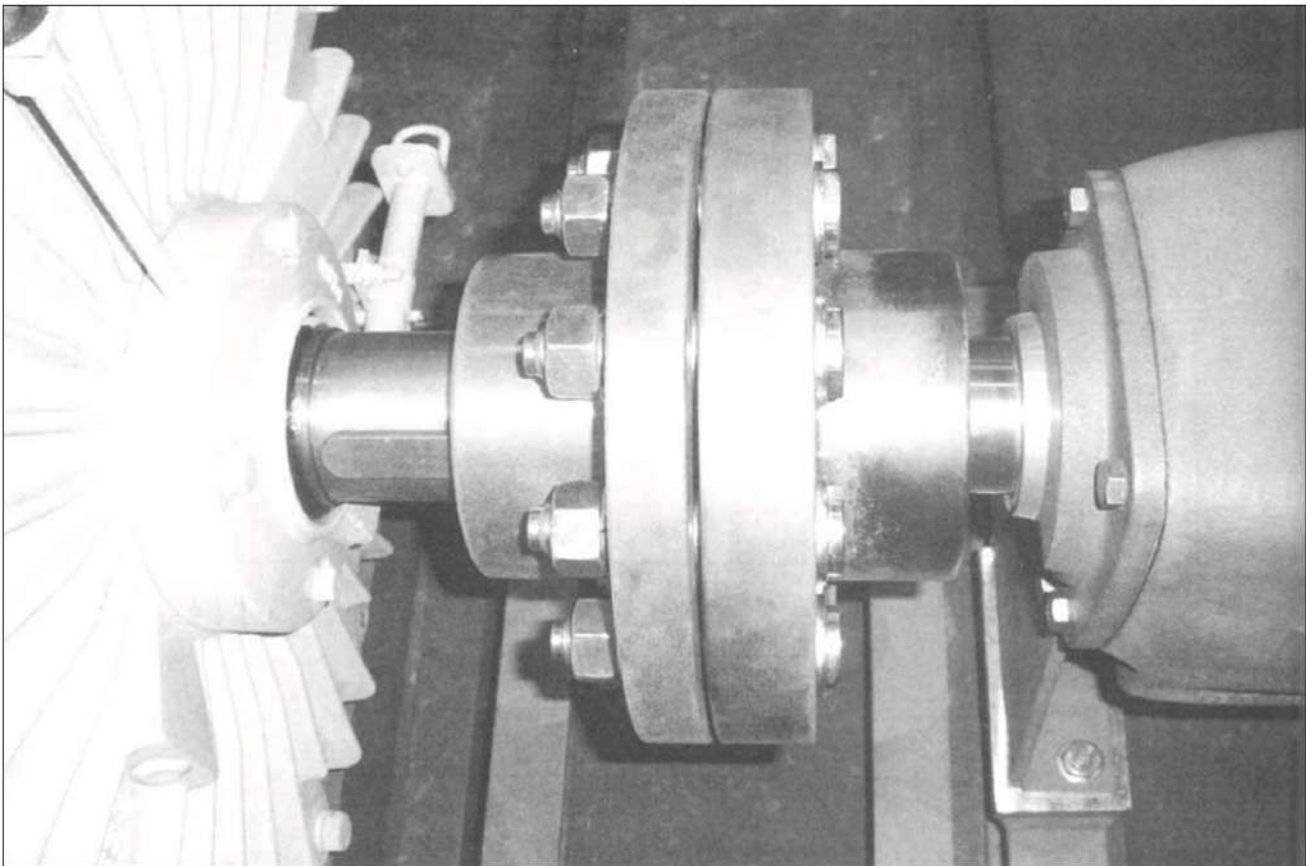
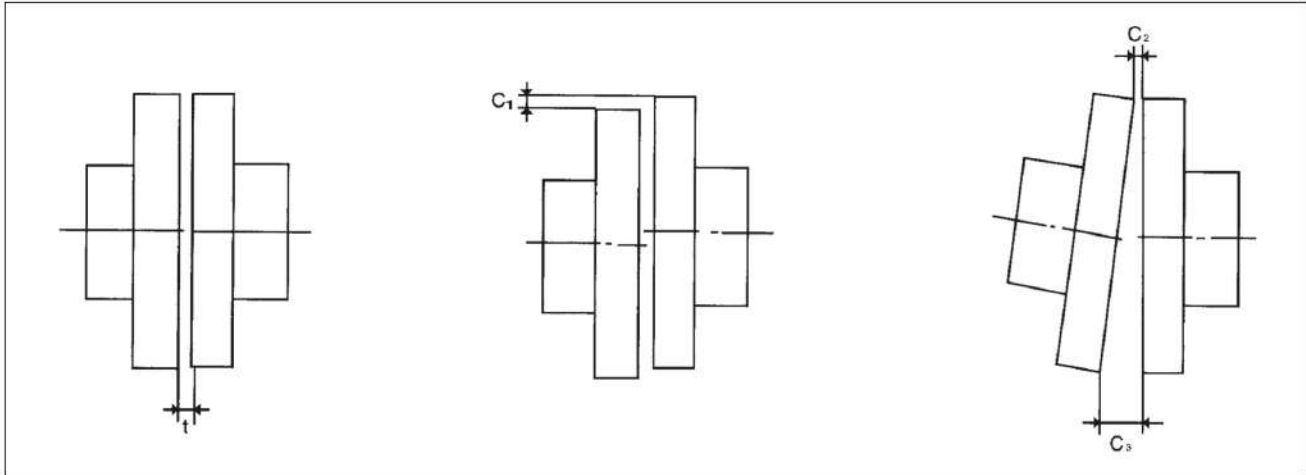


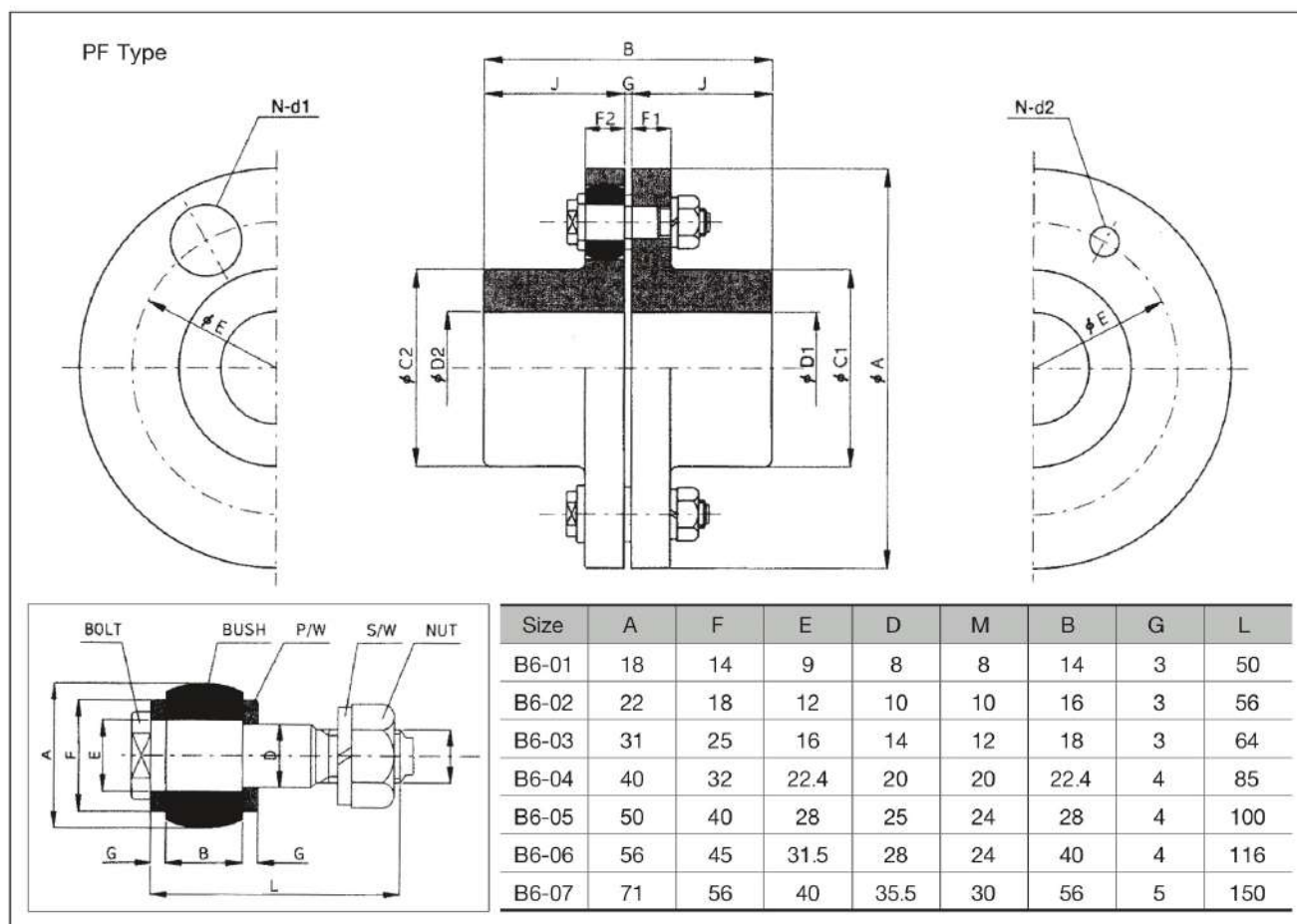
Designation



Instruction for Installation

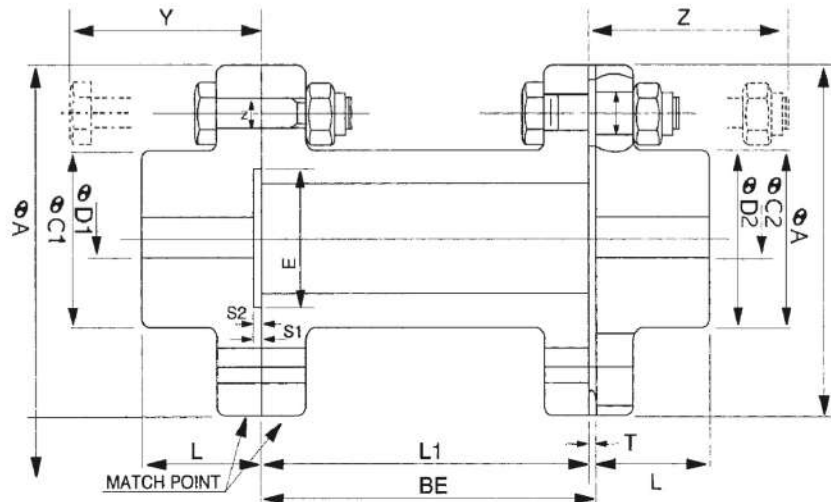
1. When Flange outside diameter is tightly without gap you must set the center to the driving and the driven shaft precisely.
2. To maintain rubber bush for a long time, make C1, C2, C3 within 0.05 mm as the following figures.
3. The value of 't' is equivalent to thickness of washer.





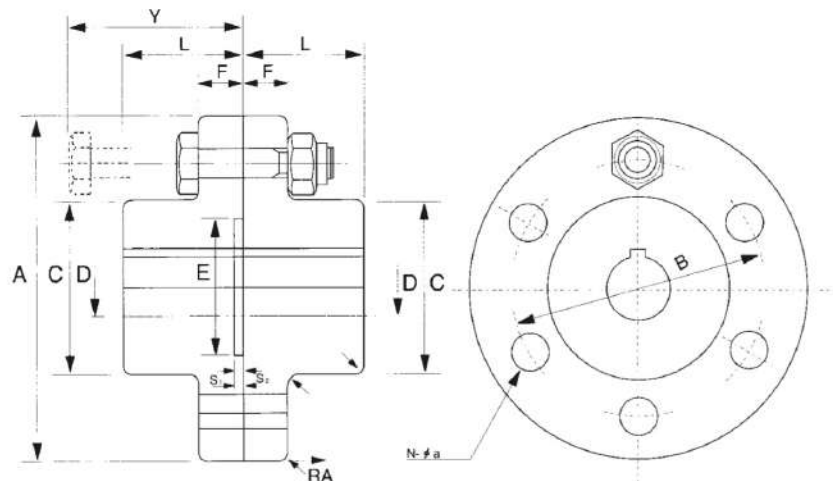
Size	Rated Torque (Nm)	Max. Speed (rpm)	Bore Dia (mm)		Dimensions (mm)											Weight (kgs)	GD ² (kgf (m ²))	
					Max. D1	Min. D2	A	B	C1	C2	E	F1	F2	J	G			Bolt Hole
			N	D1														D2
90F	50	4,000	20	-	90	59	35.5	60	14	28	3	4	19	8	1.4	0.00532		
100F	60	4,000	25	-	100	74	42.5	67	16	35.5	3	4	23	10	2.1	0.00948		
112F	140	4,000	28	16	112	83	50	75	16	40	3	4	23	10	2.7	0.0152		
125F	250	4,000	32	28	18	125	93	56	85	18	45	3	4	32	14	3.5	0.0258	
140F	290	4,000	38	35	20	140	103	63	100	18	50	3	6	32	14	4.9	0.0422	
160F	320	4,000	45	25	160	115	80	115	18	56	3	8	32	14	6.8	0.0741		
180F	600	3,500	50	28	180	129	90	132	18	63	3	8	32	14	9.6	0.121		
200F	850	3,200	56	32	200	146	100	145	22.4	71	4	8	41	20	13.2	0.241		
224F	1,700	2,850	63	35	224	164	112	170	22.4	80	4	8	41	20	18.4	0.384		
250F	2,550	2,550	71	40	250	184	125	180	28	90	4	8	51	25	26.0	0.720		
280F	3,000	2,300	80	50	280	204	140	200	28	40	100	4	8	57	28	36.5	1.29	
315F	3,500	2,050	90	63	315	228	160	236	28	40	112	4	10	57	28	49.1	2.12	
355F	4,500	1,800	100	71	355	255	180	260	35.5	56	125	5	8	72	35.5	74.9	4.42	
400F	8,700	1,600	110	80	400	255	200	300	35.5	56	125	5	10	72	35.5	94.3	7.10	
450F	9,000	1,400	125	90	450	285	224	355	35.5	56	140	5	12	72	35.5	127.8	11.5	
560F	12,000	1,150	140	100	560	325	250	450	35.5	56	160	5	14	72	35.5	206.3	27.3	
630F	15,000	1,000	160	110	630	365	280	530	35.5	56	180	5	18	72	35.5	277.0	44.1	

Type PF00-S



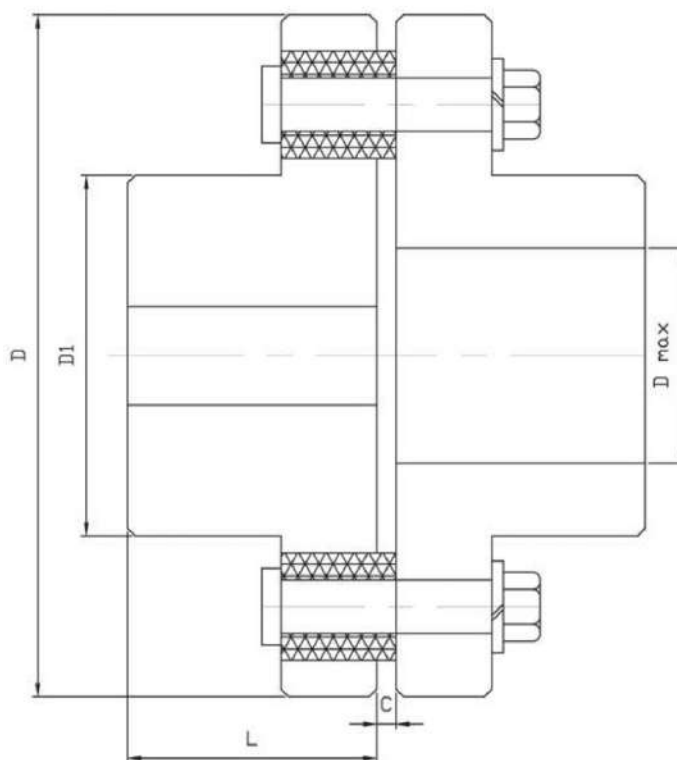
Size	Torque rating (Nm.)	Max. Speed (rpm)	Dimensions (mm)							Dimensions (mm)			
			Bore Dia (mm)			A	BE	L1	T	For rigid		For rigid	
			Min.	Max.						N	Size a1x ℓ	N	Size a1x ℓ
				D1	D2								
125xBE	25	4,000	18	32	28	125	100	97	3	4	14x53L	4	14x64L
140xBE	50	4,000	20	38	35	140	100,140	97,137	3	6	14x53L	6	14x64L
160xBE	110	4,000	25	45		160	100,140	97,137	3	8	14x53L	8	14x64L
180xBE	160	3,500	28	50		180	100,140,180	97,137,177	3	8	14x53L	8	14x64L
200xBE	250	3,200	32	56		200	140,180,220	136,176,216	4	8	16x67L	8	20x85L
224xBE	400	2,850	35	63		224	140,180,220	136,176,216	4	8	16x67L	8	20x85L
250xBE	630	2,550	40	71		224	140,180,220,260	136,176,216,256	4	8	20x82L	8	25x100L
280xBE	1,000	2,300	50	80		280	180,220,260,300	176,216,256,296	4	8	20x82L	8	28x116L
315xBE	1,600	2,050	63	90		315	180,220,260,300	176,216,256,296	4	10	20x82L	10	28x116L

Type PF00-R



Size	Torque rating (Nm.)	Max. Speed (rpm)	Dimensions (mm)													
			Bore Dia (mm)		A	L	C	B	F	N-a	Bolt Hole			Y	Weight (kgf)	GD ² (kgf-m ²)
			min	max							N	D1	D2			
112R	63	4,000	16	28	112	40	50	75	16	4-10	40	2	3	70	2.78	0.0163
125R	90	4,000	18	32	125	45	56	85	18	4-14	45	2	3	81	3.76	0.0276
140R	180	4,000	20	38	140	50	71	100	18	6-14	56	2	3	81	5.06	0.0449
160R	355	4,000	25	45	160	56	80	115	18	8-14	71	2	3	81	6.98	0.0788
180R	500	3,500	28	50	180	63	90	132	8	8-14	80	2	3	81	9.23	0.129
200R	710	3,200	32	56	200	71	100	145	22.4	8-16	100	3	4	103	14.4	0.255
224R	1,000	2,850	35	63	224	80	112	170	22.4	8-16	100	3	4	103	18.4	0.405
250R	1,400	2,550	40	71	250	90	125	180	28	8-20	112	3	4	126	27.8	0.763
280R	2,000	2,300	50	80	280	100	140	200	28	8-20	125	3	4	126	38.9	1.37
315R	2,800	2,050	63	90	315	112	160	236	28	10-20	140	3	4	126	51.2	2.23
355R	4,000	1,800	71	100	355	125	180	260	35.5	8-25	160	3	4	157	81.4	4.67

FCL Type



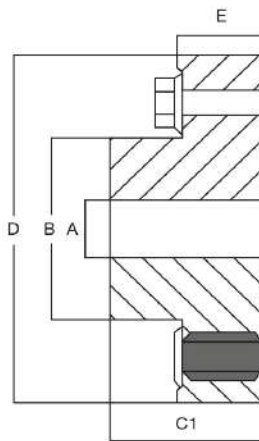
Type (Inch)	Max Bore (Dmax) mm	Max torque Nm.	Max speed r/min	D	D1	d1	L	C	n-M	Weight kgs
FCL90(3.5)	20	8	4,000	90	35.5	11	28	3	4-MB x 50	1.7
FCL100(4)	25	12	4,000	100	40	22	35.5	3	4-M10 x 56	2.3
FCL112(4.5)	28	20	4,000	112	45	13	40	3	4-M10 x 56	2.8
FCL125(5)	30	35	4,000	125	50	13	45	3	4-M12 x 64	4.0
FCL140(5.5)	38	65	4,000	140	63	13	50	3	6-M12 x 64	5.4
FCL160(6)	45	130	4,000	160	80	15	56	3	8-M12 x 64	8.0
FCL180(7)	50	170	3,500	180	90	15	63	3	8-M12 x 64	10.5
FCL200(8)	56	260	3,200	200	100	21	71	4	8-M20 x 85	16.2
FCL224(9)	65	400	2,850	224	112	21	80	4	8-M20 x 85	21.3
FCL250(10)	75	630	2,550	250	125	25	90	4	8-M24 x 110	31.6
FCL280(11)	80	1,050	2,300	280	140	34	100	4	8-M24 x 116	44.0
FCL315(12)	90	1,680	2,050	315	160	41	112	4	10-M24 x 116	57.7
FCL355(14)	105	2,570	1,800	355	180	60	125	5	8-M30 x 150	89.5
FCL400(16)	110	4,000	1,600	400	200	60	125	5	10-M30 x 150	113
FCL450(18)	125	6,300	1,400	450	224	65	140	5	12-M30 x 150	145
FCL560(22)	140	10,200	1,150	560	250	85	160	5	14-M30 x 150	229
FCL630(25)	160	16,500	1,000	630	280	95	180	5	18-M30 x 150	296

Technical Data

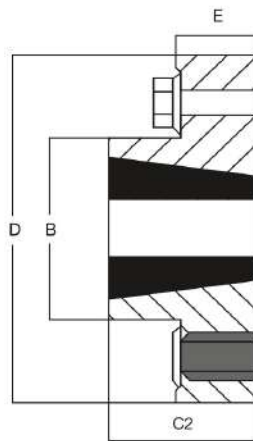
Crown pin Couplings is widely used its compact designing. Easy installation for taper bushes type. As long as the relative displacement between shafts is kept within the specied toterance. The coupling will operate the best function and a long working life. Thus it is greatly demanded in midium and minorpower transmission systems drive by motors. Such as speed reducers, hoists, compresor, pump, spinning & weaving machines and ball mills, Radial displacement 0.2-0.6 mm. Angel displacemete 0.3-1.3



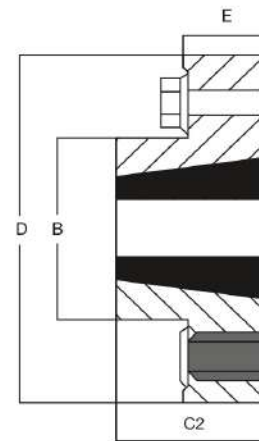
Dimension Data



Pilot bore (Type BB)



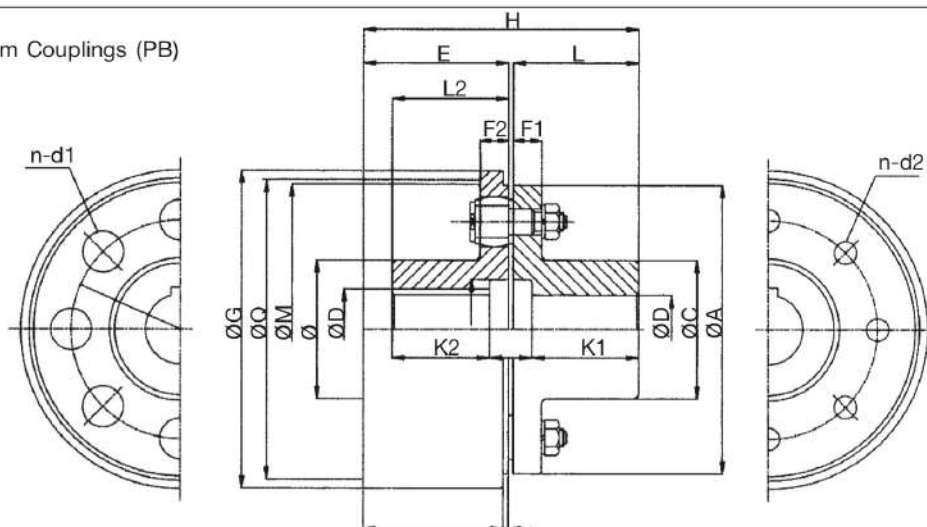
Taper bush (Type HH)



Taper bush (Type FF)

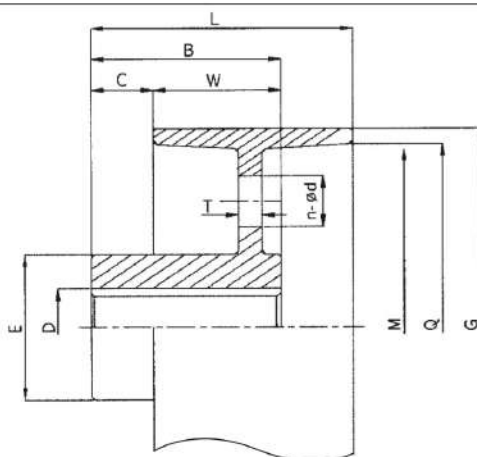
Coupling size	Dimensions.								Type BB				Type F & H			
	Torque (Nm)	Max (rpm)	Rubber No.	Pin No.	B (mm)	D (mm)	E (mm)	Pin No.	A (mm)	C1 (mm)	Max bore (mm)	Weight (kg)	C2 (mm)	Bush No.	Max bore (mm)	Weight (kg)
PB 4	70	6,000	24	10	44	102	22	4	12	43	28	3.5	25	1008	25	3.2
PB 5	160	5,000	24	10	65	127	22	6	12	45	45	4.5	28	1210	32	4.1
PB 6	365	4,500	24	10	87	153	22	8	12	55	55	7.5	28	1610	42	7.1
PB 7	625	4,000	34	14	94	178	30	8	16	65	65	10.5	32	2012	50	9.4
PB 8	900	3,500	34	14	114	204	30	10	16	70	75	15.1	45	2517	60	14
PB 9	1,750	3,000	42	20	121	229	35	10	20	75	80	24	45	2517	60	23
PB 10	2,650	2,500	42	20	144	254	35	12	20	80	100	31	51	3020	75	28
PB 12	3,500	2,000	51	24	175	305	50	10	50	95	120	60	65	3525	90	58
PB 14	4,500	1,800	51	24	226	356	50	12	50	105	150	90	76	4030	100	85
PB 16	9,000	1,600	60	31	259	407	60	12	60	115	190	128	90	4535	115	120

Brake Drum Couplings (PB)



G	Dimensions (mm)																	Brake Torque (Nm.)	GD ² (kgf (m ²))
	(D) mm		W	S	E	L ₁	L ₂	H	T	C	K ₁	K ₂	J	P	M	Q	A		
	max	min																	
160	37	20	80	4	84	95	76	182	3	63	82	63	29	43	140	145	140	90	0.2
200	53	28	100	4	104	128	96	235	3	90	112	80	35	60	178	184	180	190	0.3
250S	66	35	125	4	129	128	106	261	4	112	112	90	36	75	224	230	224	340	0.8
250L	66	35	125	4	129	158	106	291	4	112	142	90	36	75	224	230	224	360	0.81
315	75	40	160	4	164	158	128	326	4	125	142	112	36	85	285	292	250	570	2.4
355	84	50	180	4	184	160	130	348	4	140	142	112	40	95	320	330	280	800	4.3
400	95	63	200	4	204	190	158	398	4	160	172	140	40	105	362	374	315	1,100	6.8
450	105	71	224	4	228	195	163	428	5	180	172	140	51	125	410	422	355	1,600	13.6
500	115	80	250	4	254	235	183	494	5	200	212	160	51	135	445	462	400	2,500	26
560	130	90	280	4	284	240	188	529	5	224	212	160	61	150	495	516	450	3,100	42
762	165	110	362	4	366	240	208	611	5	280	212	180	61	190	690	710	630	5,800	160

PF Type



G	Dimensions (mm)												Brake Torque (Nm.)	GD ² (m ²)
	(D) mm		G	W	C	L	B	E	M	Q	T	N-d		
	max	min												
160	37	20	160	80	32	112	82	63	140	145	16		60	0.07
200	48	28	200	100	32	132	112	80	178	184	16		100	0.21
250	60	35	250	125	32	157	112	100	224	230	16	2-30	180	0.57
315	60	40	315	160	35	195	112	100	285	292	20	2-30	290	1.7
355	67	50	355	180	40	220	142	112	320	330	20	2-40	400	3.1
400	75	63	400	200	40	240	142	125	362	374	25	2-40	600	5.5
450	96	71	450	224	55	279	172	160	410	422	25	2-40	850	9.4
500	108	80	500	250	60	310	212	180	445	462	28	2-40	1,300	18.0
560	120	90	560	280	65	345	212	200	495	516	28	2-40	1,800	3.0
762	135	110	762	362	80	442	212	224	690	710	35	2-40	340	124.0