TABLE 1 : SERVICE FACTORS

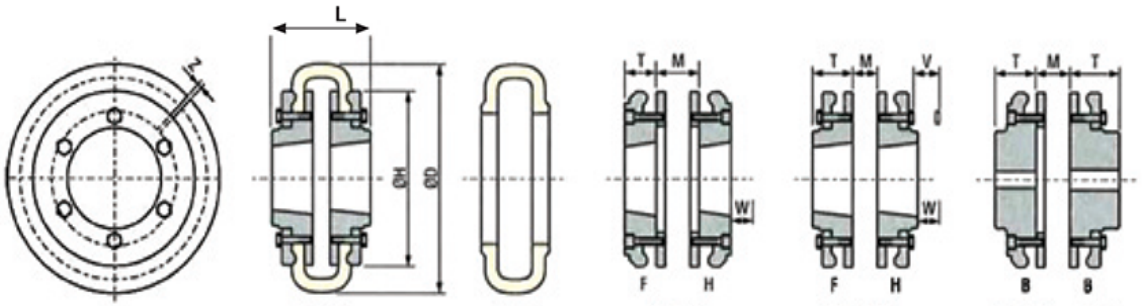
SPECIAL CASES For applications where substantial shock, vibration and torque fluctuation occur, and for reciprocating machines, e.g. internal combustion engines, piston type pumps and compressors, refer to GB Power Transmission with full machine details for torsional analysis.	Type of Driving Unit					
	Electric Motors Steam Turbines			Internal Combustion Engines Steam Engines Water Tubines		
	Hours per day duty			Hours per day duty		
Driven Machine Class	8 and under	over 8 to 16 inclusive	over 16	8 and under	over 8 to 16 inclusive	over 16
UNIFORM Agitators, Brewing Machinery, Centrifugal Compressors ~ , Conveyors, Centrifugal Fans and pumps, Generators, Sewage Disposal Equipment.	1,00	1,12	1,25	1,25	1,40	1,60
MODERATE SHOCK* Clay working machinery, Crane Hoists, Laundry machinery, Wood working machinery, Machine Tools, Rotary Mills, Paper Mill machinery, Textile machinery.	1,60	1,80	2,00	2,00	2,24	2,50
HEAVY SHOCK* Reciprocating converyors, Crushers, Shakers, Metal Mills, Rubber machinery. (Banbury Mixers and Mills, Reciprocating Compressors.)	2,50	2,80	3,12	3,12	3,55	4,00

* It is recommended that top clearance keys are fitted for applications where load fluctuation is expected.

~ For Centrifugal Compressor multiply Service Factor by an additional 1,15.

Power Ratings

RATINGS	F40	F50	F60	F70	F80	F90	F100	F110	F120	F140	F160	F180
Power kW per 100 rpm	0.251	0.691	1.33	2.62	3.93	5.24	7.07	9.16	13.9	24.3	39.5	65.7
Power kW @ 720 rpm	1.81	4.98	9.57	18.8	28.3	37.7	50.9	66.0	100	175	284	473
Power kW @ 960 rpm	2.41	6.63	12.8	25.1	37.7	50.3	67.9	88.0	134	234	379	630
Power kW @ 1440 rpm	3.62	9.95	19.1	37.7	56.5	75.4	102	132	201	351	568	945
Power kW @ 2880 rpm	7.24	19.9	38.3	75.4	113	151	-	-	-	-	-	-
Speed Maximum (rpm)	4.500	4.500	4,000	3,600	3,100	3,000	2,600	2,300	2,050	1,800	1600	1500
Torque Nominal (Nm)	24	66	127	250	375	500	675	875	1,330	2,325	3770	6270
Torque Maximum (Nm)	64	160	318	487	759	1,096	1,517	2,137	3,547	5,642	9339	16455



Typical Assembly | Rubber Tyre | F40 - F60 Taper Fit Flange | F70 - F140 Taper Fit Flange | F40 - F120 F140 Pilot Bore Flange

DIMENSIONS

Bore	F40	F50	F60	F70	F80	F90	F100	F110	F120	F140	F160	F180
GB Bush Size: F Range	1008	1210	1610	2012	2517	2517	3020	3020	3525	3525	4030	4535
GB Bush Size: H Flange	1008	1210	1610	1610	2012	2517	2517	3020	3020	3525	4030	4535
Maximum Bore: F Flange	25	32	42	50	60	60	75	75	100	100	115	125
Maximum Bore: H Flange	25	32	42	42	50	60	60	75	75	100	115	125
Maximum Bore: B Flange	32	38	45	50	60	75	80	90	100	130	140	150

Dimensions	F40	F50	F60	F70	F80	F90	F100	F110	F120	F140	F160	F180
0D - Outside Diameter	104	133	165	187	211	235	254	279	314	359	402	470
0H - Hub Diameter	82	100	125	144	167	188	216	233	264	311	345	398
L- Length: FF	66	76	84	88	116	119	131	127	159	163	184	224
L- Length: HH	66	76	84	84	90	119	119	127	131	163	184	224
L- Length: FH	66	76	84	86	103	119	125	127	145	163	184	224
L - Length: BB	67	89	110	129	144	160	168	175	202	221	234	274
L- Length: FB	66.5	82.5	97	108.5	130	139.5	149.5	151	180.5	192	209	249
L- Length: HB	66.5	82.5	97	106.5	117	139.5	143.5	151	166.5	192	209	249
M-Gap:FFHHFH	22	25	33	23	25	27	27	25	29	32	30	46
M - Gap: BB	22	25	33	40	43	46	48	44	49	32	30	46
M - Gap: FB HB	22	25	33	31.5	34	36.5	37.5	34.5	39	32	30	46
T- Length Through Bore: F Flange	22	25	25	32	45	45	51	51	65	65	77	93
T- Length Through Bore: H Flange	22	25	25	25	32	45	45	51	51	65	77	93
T - Length Through Bore: B Range	22	32	38	44	51	57	60	65	76	94	102	118
V - Clamping Screw Installation*	-	-	-	13	16	16	16	16	16	17	17	17
W - Wrench Clearance (H Range only)*	29	38	38	42	48	48	55	55	67	67	76	89
Z - Tyre End Gap	2	2	2	3	3	3	3	3	3	5	5	5
Tyre Screw Tightening Torque (Nm)	15	15	15	24	24	40	40	40	50	55	55	55

Alignment	F40	F50	F60	F70	F80	F90	F100	F110	F120	F140	F160	F180
Max Parallel	1.1	1.3	1.6	1.9	2.1	2.4	2.6	2.9	3.2	3.7	4.2	4.8
Max Axial	±1.3	±1.7	±2.0	±2.3	±2.6	±3.0	±3.3	±3.7	±4.0	±4.6	±5.3	±6.0
Max Angular f)	4	4	4	4	4	4	4	4	4	4	4	4

Mass	F40	F50	F60	F70	F80	F90	F100	F110	F120	F140	F160	F180
F Flange (kg)	0.8	1.1	1.8	2.4	3.5	5.8	7.0	9.0	12.0	26.5	32.5	42.2
H Flange (kg)	0.8	1.1	1.8	2.6	3.8	5.8	7.0	9.0	13.0	26.5	32.5	42.2
B Flange (kg)	1.0	1.7	2.7	3.4	5.2	7.4	10.7	13.7	17.2	22.2	35.8	49.1
Tyre (kg)	0.1	0.3	0.5	0.7	0.8	1.0	1.1	1.5	2.0	2.9	3.5	4.2

All values are in mm unless otherwise stated.