FLEXITECH
INDUSTRIES

Flexible Pin Bush Couplings

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BUSH TYPE FLEXIBLE COUPLING SELECTION

The function of a flexible coupling is to transmit torque from one shaft to another and is particularly use full in case where limited misalignment may occur and also to absorb shock loads.

The Flexitech Bush Type Flexible Coupling of the cushioned drive type. Transmits the torque through high tensile steel bolts to the machine input shat. Highly developed rubber compounds are bushes to absorb loads. Torsional vibrations and slight misalignments.

Simple and compact in construction the Flexitech Coupling is capable of transmitting high torques at maximum speeds. The flanges are manufactured with cast iron, this type of coupling permits drive in either direction and require neither lubrication nor adjustment after fitting. The flexible business remains unaffected water, dust and atmospheric conditions.

Machines which are to be coupled by flexible couplings should first be aligned with all possible accuracy. The capacity of the coupling will then deal with misalignments which occur by reason of temperature variations or heavy shaft loading. Setting of machine foundations of bearing wear will also cause extra loading to be imposed on the coupling. Any or all of these conditions can occur once the machines have been coupled. Flanges are bored to suit requirements and are mayweed to British Standard Specification, unless otherwise stated. They can also be supplied with the listed minimum bore to permit machining on site.

TABLE 1 :SERVIE FACTORS	PRIME MOVER				
DRIVEN MACHINE	Electric Motor Steam Turbine Shafting	Steam Engine Water Turbine	IC Engine MultiCylinder	IC Engine Single Cylinder Diesel MultiCylinder	Diesel Engine Single Cylinder
Heavy Rolling Mill Drives; Continuous, Prolonged & Reversing Drives; Severe Traction and Haulage Loads.	2.25	2.50	2.75	3.50	3.75
Single Crank Compressors & Pumps; Hammers; Ball & Tube Mill; Rolling Mills (light) ; Shearing Machines; Punches; Rock & Stone Crushers; Brick Making and similar Machines; Printing Presses (large); Grinders; Pulverizes; Cranes & Winches; Mechanical Shovels & Dredges; Winding Gears and Drums.	2.00	2.25	2.50	3.25	3.50
Wire Mills; Cement Mills; Small Printing Presses.	1.75	2.00	2.25	3.00	3.25
Multi-Crank Compressors and Pumps; Generators (fluctuating loads); Rotary Dryers & Screens; Rotary Compressors; Planers; Wood – Working Machines (heavy); Pulp Grinders; Shakers; Mine Fans	1.50	1.75	2.00	2.75	3.00
Machine Tools (light); Beaters; Exhausters; Wood – Working Machines (light); Alternators; Welding Generators; Textile Machines.	1.25	1.50	1.75	2.25	2.75
Even Torque Machines; Smooth Loads, Generators; Centrifugal Pumps; Blower; Small Fans; Line Shafting.	1.00	125	1.50	2.00	2.50

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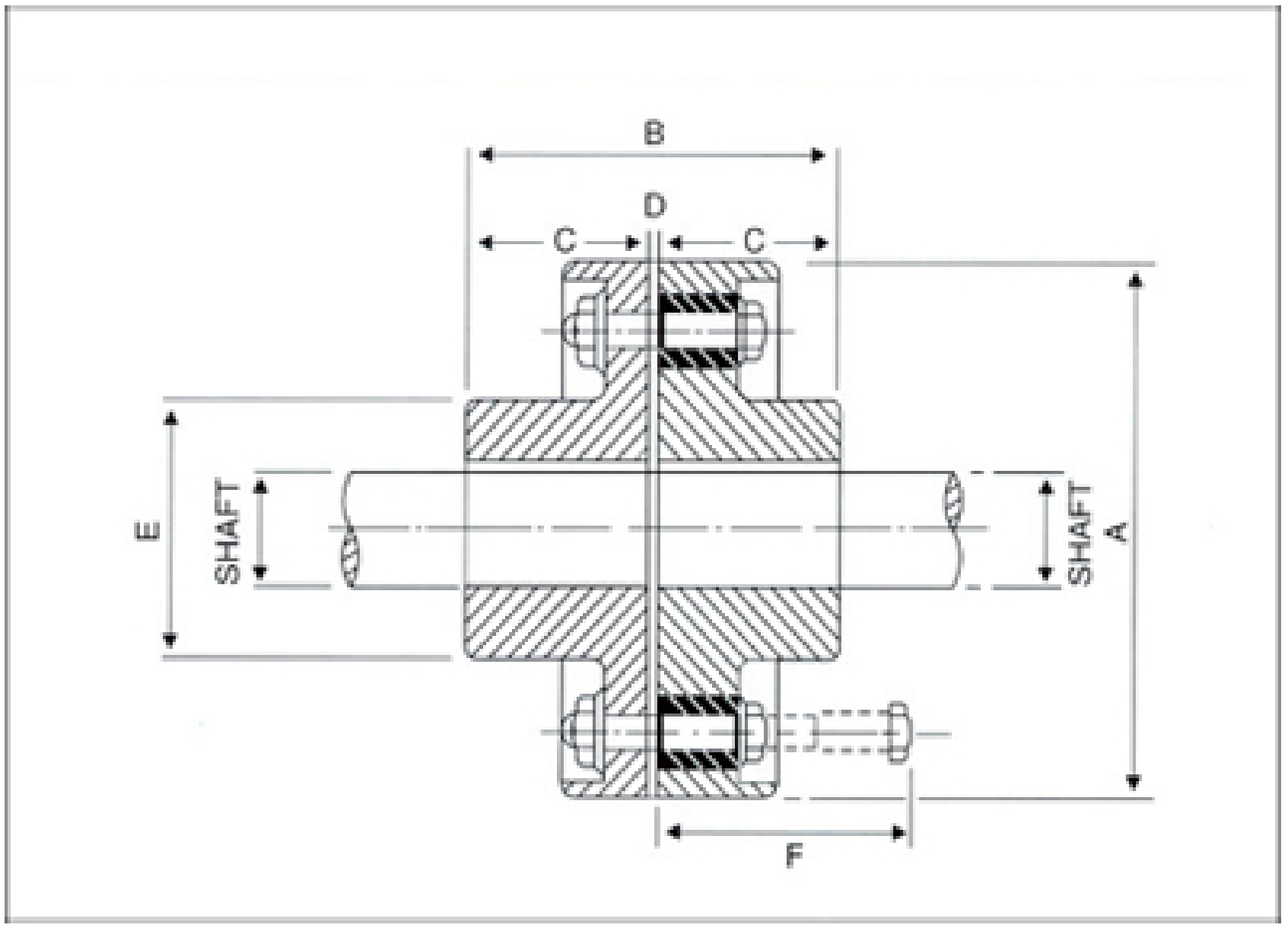

TABLE2: DIMENSIONS

SIZE	No. of Pins	Torque Nm	Min Bore (mm)	Max. Bore (mm)	Max.Speedrev/min	A	B	C	D	E	F
FBC1	3	77	12.7	28	6100	95	79	38	3	40	58
FBC2	4	310	12.7	30	5100	114	99	48	3	42	70
FBC2A	6	516	16	42	4400	130	105	51	3	60	70
FBC3	4	621	16	48	3600	160	107	51	5	68	114
FBC4	4	831									
FBC4A	6	1241	20	65	3000	191	125	60	5	90	114
FBC5	6	1662	25	75	2600	225	157	76	5	105	114
FBC6	8	2359									
FBC6A	10	2932									
FBC6B	12	3533	45	95	2300	254	183	89	5	135	114
FNBC7	12	4154	60	115	1950	290	235	115	5	170	114
FNBC7A	14	5195	60	120	1900	300	235	115	5	180	130
FNBC8	16	5816	65	130	1850	310	255	125	5	195	130
FNBC8A	18	7268	65	135	1650	340	265	130	5	200	130
FNBC8B	12	8729	70	140	1590	360	276	135	6	210	200
FNBC9	13	9932	80	150	1470	390	316	155	6	225	200
FNBC9A	15	13274	90	160	1400	410	336	165	6	240	200
FNBC10	16	14420	100	170	1300	440	366	180	6	255	200
FNBC10A	17	18050	110	180	1200	480	386	190	6	270	212
FNBC11	20	23780	120	190	1080	530	406	200	6	285	212