

Bibby Series III Standard and Modified Designs





BIBBY SERIES III GEAR COUPLING

Flexible Couplings

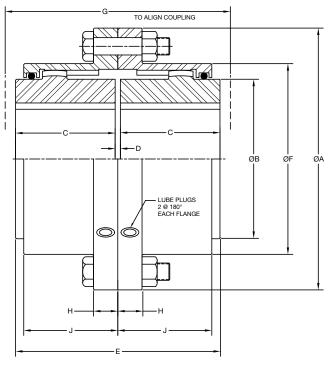
Series FD - High Torque

SIZES 15-70

FLANGED SLEEVE — DOUBLE-ENGAGEMENT TYPE

Application: Meets requirements of all standard applications for shaft sizes up to 265 mm. Compensates for both angular misalignment and parallel offset.

Description: Series FD Flexible Coupling is designed with bolted center flanges to facilitate installation and alignment. Optimum separation of gear meshes permits high parallel offset capacity. Flanged-sleeve design makes possible minimum distance between bearing housings to facilitate shaft alignment. The coupling is optimized for the greatest torque capacity.



FD Exposed Bolt

FD	Torque Capacity	Maximum Speed	Maximum Bore	DIMENSIONS mm										MR ² Inertia
Size	NM	RPM	mm	А	В	C	D	E	F	G	н	J	kg	kgm²
15	2,373	5,400	55	152.4	79.2	49.3	3.0	101.6	99.6	120.0	19.1	45.0	7.7	0.0170
20	5,084	4,800	75	177.8	101.6	62.0	3.0	127.0	123.4	150.0	19.1	57.7	13.6	0.0378
25	8,756	4,300	95	212.9	124.0	77.0	4.8	158.8	148.8	185.0	22.4	71.4	24.1	0.0935
30	12,993	4,000	110	239.8	146.1	91.2	4.8	187.5	174.2	215.0	22.4	86.1	37.2	0.1808
35	19,433	3,600	125	279.4	165.1	106.4	6.4	218.9	200.2	255.0	26.9	99.3	57.7	0.3821
40	30,618	3,200	150	317.5	196.9	120.7	6.4	247.7	234.2	280.0	26.9	113.3	87.6	0.7430
45	42,029	3,000	175	345.9	228.6	134.9	7.9	277.9	262.9	315.0	26.9	126.5	120.8	1.2230
50	57,056	2,600	185	388.9	241.3	153.2	7.9	314.5	290.6	350.0	38.1	144.0	167.1	2.1603
55	81,008	2,400	205	420.6	266.7	168.1	7.9	344.4	322.3	390.0	38.1	158.8	221.6	3.3683
60	95,018	2,200	230	457.2	298.5	188.2	7.9	384.0	349.3	420.0	25.4	175.0	290.6	5.0191
70	135,578	1,800	265	527.1	342.9	220.7	9.7	450.9	406.4	490.0	28.4	198.4	441.7	10.0461

Contact the factory for additional details, modifications and variations.

Combined angular and parallel offset should not exceed + 3/4° per gear mesh.

Bibby Series III Couplings – Fully-Crowned Teeth for Higher Torque, Higher Speed, Higher Misalignment Capacity

ALL SERIES FD COUPLINGS INCORPORATE THE FOLLOWING ENGINEERED FEATURES:

- $\pm 3/4^{\circ}$ angular misalignment capacity per gear mesh.
- Torque ratings at full misalignment in excess of normal requirements for average applications.
- Accurately machined medium carbon steel hubs and sleeves.
- Positive-type 0-ring seals keep lubricant in...contaminants out. Seals enshrouded to prevent damage.

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Flexible Couplings

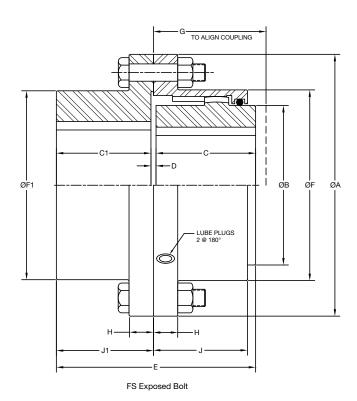
Series FS - High Torque

SIZES 15-70

FLANGED SLEEVE — SINGLE-ENGAGEMENT TYPE

Application: Used primarily in tandem pairs, connected by intermediate floating shafts or as individual unit in conjunction with a driver or driven shaft having self-aligning support bearing. When used singly, compensates for angular misalignment only.

Description: Series FS Flexible Coupling consists of one standard flexible half coupling and one rigid half. The bolted center flanges facilitate installation and alignment.



Maximum Hub MR² DIMENSIONS Mass Inertia Bore (mm) Torque B C C1 G J1 Size Flex Rigid Nm D kg kgm² 152.4 49.3 45.5 98.6 99.6 60.0 19.1 45.0 47.8 0.0188 15 55 75 2,373 79.2 4.1 99.6 8.4 20 75 95 5,084 177.8 101.6 62.0 58.2 4.1 124.0 123.4 123.4 75.0 19.1 57.7 60.5 14.6 0.0416 25 95 115 8,756 212.9 124.0 77.0 73.9 4.8 155.6 148.8 148.8 95.0 22.4 71.4 76.2 25.7 0.0973 30 110 135 12,993 239.8 146.1 91.2 86.6 4.8 182.6 174.2 174.2 110.0 22.4 86.1 88.9 38.9 0.1960 125 35 155 19,433 279.4 165.1 106.4 100.8 5.6 212.6 200.2 200.2 130.0 26.9 99.3 103.1 60.8 0.4134 113.3 40 150 180 30.618 317.5 196.9 120.7 112.8 7.9 241.2 234.2 234.2 140.0 26.9 117.3 90.8 0.7896 175 200 42,029 345.9 228.6 134.9 127.0 258.6 160.0 26.9 126.5 131.6 124.9 1.2854 45 8.6 270.5 262.9 144.0 178.0 50 57,056 146.3 38.1 185 225 388.9 241.3 153.2 8.6 308.1 290.6 290.6 175.0 150.9 2.3891 55 205 250 420.6 266.7 168.1 155.7 8.6 332.5 322.3 322.3 195.0 38.1 158.8 230.2 3.6018 81,008 160.3 349.3 60 95,018 181.9 10.4 380.2 210.0 25.4 188.2 311.0 230 270 457.2 298.5 188.2 349.3 175.0 5.1586 70 265 310 135,578 527.1 342.9 220.7 214.4 12.7 447.7 406.4 400.1 245.0 28.4 198.4 222.3 474.4 10.6919

Contact the factory for additional details, modifications and variations. Combined angular and parallel offset should not exceed + $3/4^{\circ}$ per gear mesh.

Gear Couplings Bore And Keyway Service

ASK ABOUT OUR EXPRESS BORE AND KEYWAY SERVICE:

- Express: 2-3 working days leadtime
- Standard: 5 working days leadtime





The Brands of Altra Industrial Motion

Couplings

Ameridrives Bibby Turboflex Guardian Couplings Huco Lamiflex Couplings Stromag TB Wood's

Geared Cam Limit Switches Stromag

Electric Clutches & Brakes Inertia Dynamics Matrix

Stromag Warner Electric

Linear Products Warner Linear

Engineered Bearing Assemblies Kilian

Heavy Duty Clutches & Brakes

Industrial Clutch Twiflex Stromag Svendborg Brakes Wichita Clutch

Belted Drives TB Wood's

Gearing

Bauer Gear Motor Boston Gear Delroyd Worm Gear Nuttall Gear

Overrunning Clutches

Formsprag Clutch Marland Clutch Stieber

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WA LOCATIONS

Unit 1 / 45 Inspiration Drive, Wangara WA 6065 (08) 9303 4966

Unit 16 / 51-53 Kewdale Road, Welshpool WA 6106 (08) 6314 1155 support@chainanddrives.com.au NSW LOCATION Unit 7 / 70 Holbeche Road, Arndell Park NSW 2148 (02) 9674 8611 salesnsw@chainanddrives.com.au

