



## Bibby Series III Standard and Modified Designs

 **Bibby**  
Turboflex

An Altra Industrial Motion Company





## Bibby Series III Gear Coupling

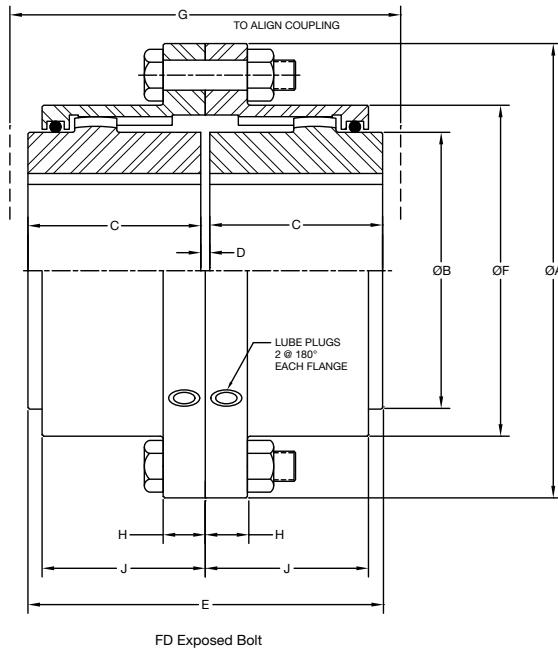


### Flexible Couplings Series FD - High Torque Sizes 15-70

#### 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										Mass	MR <sup>2</sup> Interia
				Size	NM	RPM	mm	A	B	C	D	E	F	G	
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:

- ±3/4° 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 O-ring seals keep lubricant in...contaminants out. Seals enshrouded to prevent damage.



## Bibby Series III Gear Coupling

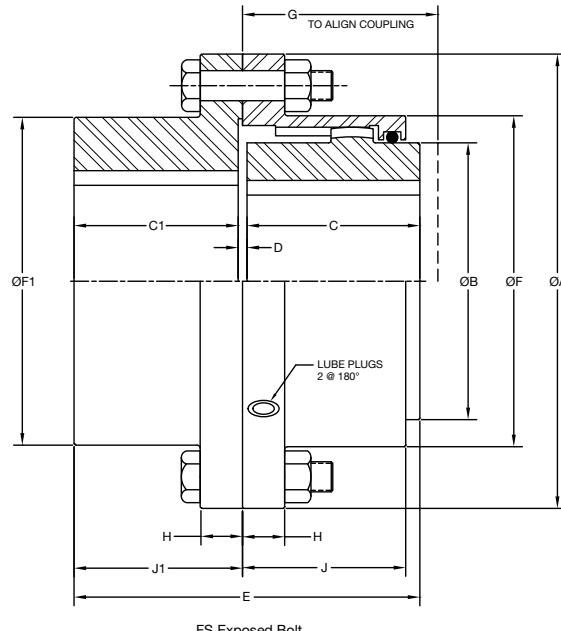


### Flexible Couplings Series FS - High Torque Sizes 15-70

**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.



FS	Maximum Hub Bore (mm)		Torque												DIMENSIONS						Mass kg	MR <sup>2</sup> Interia kgm <sup>2</sup>
	Size	Flex	Rigid	Nm	A	B	C	C1	D	E	F	F1	G	H	J	J1						
15	55	75	2,373	152.4	79.2	49.3	45.5	4.1	98.6	99.6	99.6	60.0	19.1	45.0	47.8	8.4	0.0188					
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					
35	125	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					
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	113.3	117.3	90.8	0.7896					
45	175	200	42,029	345.9	228.6	134.9	127.0	8.6	270.5	262.9	258.6	160.0	26.9	126.5	131.6	124.9	1.2854					
50	185	225	57,056	388.9	241.3	153.2	146.3	8.6	308.1	290.6	290.6	175.0	38.1	144.0	150.9	178.0	2.3891					
55	205	250	81,008	420.6	266.7	168.1	155.7	8.6	332.5	322.3	322.3	195.0	38.1	158.8	160.3	230.2	3.6018					
60	230	270	95,018	457.2	298.5	188.2	181.9	10.4	380.2	349.3	349.3	210.0	25.4	175.0	188.2	311.0	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					

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- Torque ratings at full misalignment - in excess of normal requirements for average applications.
- Accurately machined medium carbon steel hubs and sleeves.
- Positive-type O-ring seals keep lubricant in...contaminants out. Seals enshrouded to prevent damage.

## Altra Industrial Motion

All Customer Service phone numbers shown in bold

Electromagnetic Clutches and Brakes	Couplings	Heavy Duty Clutches and Brakes	Overrunning Clutches
<b>Warner Electric</b> <i>Electromagnetic Clutches and Brakes</i> New Hartford, CT - USA <b>1-800-825-6544</b> <i>For application assistance:</i> <b>1-800-825-9050</b> St Barthelemy d'Anjou, France <b>+33 (0) 2 41 21 24 24</b> <i>Precision Electric Coils and Electromagnetic Clutches and Brakes</i> Columbia City, IN - USA <b>1-260-244-6183</b>	<b>Ameridrives Couplings</b> <i>Mill Spindles, Ameriflex, Ameridisc</i> Erie, PA - USA <b>1-814-480-5000</b> <i>Gear Couplings</i> San Marcos, TX - USA <b>1-800-458-0887</b> <b>Bibby Turboflex</b> <i>Disc, Gear, Grid Couplings, Overload Clutches</i> Dewsbury, England <b>+44 (0) 1924 460801</b> Boksburg, South Africa <b>+27 11 918 4270</b> <b>TB Wood's</b> <i>Elastomeric Couplings</i> Chambersburg, PA - USA <b>1-888-829-6637 – Press #5</b> <i>For application assistance:</i> <b>1-888-829-6637 – Press #7</b> <i>General Purpose Disc Couplings</i> San Marcos, TX - USA <b>1-888-449-9439</b> <b>Ameridrives Power Transmission</b> <i>Universal Joints, Drive Shafts, Mill Gear Couplings</i> Green Bay, WI - USA <b>1-920-593-2444</b> <b>Huco Dynatork</b> <i>Precision Couplings and Air Motors</i> Hertford, England <b>+44 (0) 1992 501900</b> Charlotte, NC - USA <b>1-800-825-6544</b>	<b>Wichita Clutch</b> <i>Pneumatic Clutches and Brakes</i> Wichita Falls, TX - USA <b>1-800-964-3262</b> Bedford, England <b>+44 (0) 1234 350311</b> <b>Twiflex Limited</b> <i>Caliper Brakes and Thrusters</i> Twickenham, England <b>+44 (0) 20 8894 1161</b> <b>Industrial Clutch</b> <i>Pneumatic and Oil Immersed Clutches and Brakes</i> Waukesha, WI - USA <b>1-262-547-3357</b> <b>Gearing</b>	<b>Formsprag Clutch</b> <i>Overrunning Clutches and Holdbacks</i> Warren, MI - USA <b>1-800-348-0881 – Press #1</b> <i>For application assistance:</i> <b>1-800-348-0881 – Press #2</b> <b>Marland Clutch</b> <i>Roller Ramp and Sprag Type Overrunning Clutches and Backstops</i> South Beloit, IL - USA <b>1-800-216-3515</b> <b>Stieber Clutch</b> <i>Overrunning Clutches and Holdbacks</i> Heidelberg, Germany <b>+49 (0) 6221 30 47 0</b>
<b>Matrix International</b> <i>Electromagnetic Clutches and Brakes, Pressure Operated Clutches and Brakes</i> Brechin, Scotland <b>+44 (0) 1356 602000</b> New Hartford, CT - USA <b>1-800-825-6544</b> <b>Inertia Dynamics</b> <i>Spring Set Brakes; Power On and Wrap Spring Clutch/Brakes</i> New Hartford, CT - USA <b>1-800-800-6445</b>	<b>TB Wood's</b> <i>Enclosed and Open Gearing, Electrical and Mechanical P.T. Components</i> Charlotte, NC - USA <b>1-800-825-6544</b> <i>For application assistance:</i> <b>1-800-816-5608</b> <b>Bauer Gear Motor</b> <i>Geared Motors</i> Esslingen, Germany <b>+49 (711) 3518-0</b> <b>Nuttall Gear and Delroyd Worm Gear</b> <i>Worm Gear and Helical Speed Reducers</i> Niagara Falls, NY - USA <b>1-716-298-4100</b>	<b>Boston Gear</b> <i>Enclosed and Open Gearing, Electrical and Mechanical P.T. Components</i> Charlotte, NC - USA <b>1-800-825-6544</b> <i>For application assistance:</i> <b>1-800-816-5608</b> <b>Kilian Manufacturing</b> <i>Engineered Bearing Assemblies</i> Syracuse, NY - USA <b>1-315-432-0700</b>	<b>Belted Drives and Sheaves</b>
<b>Warner Linear</b> <i>Linear Actuators</i> Belvidere, IL - USA <b>1-800-825-6544</b> <i>For application assistance:</i> <b>1-800-825-9050</b> St Barthelemy d'Anjou, France <b>+33 (0) 2 41 21 24 24</b>	<b>TB Wood's</b> <i>Belted Drives</i> Chambersburg, PA - USA <b>1-888-829-6637 – Press #5</b> <i>For application assistance:</i> <b>1-888-829-6637 – Press #7</b>	<b>Engineered Bearing Assemblies</b>	For information concerning our sales offices in Asia Pacific check our website <a href="http://www.altramotion.com.cn">www.altramotion.com.cn</a>



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