

Bibby Series III

Standard and Modified Designs



Bibby Turboflex®
Altra Industrial Motion

BIBBY SERIES III GEAR COUPLING

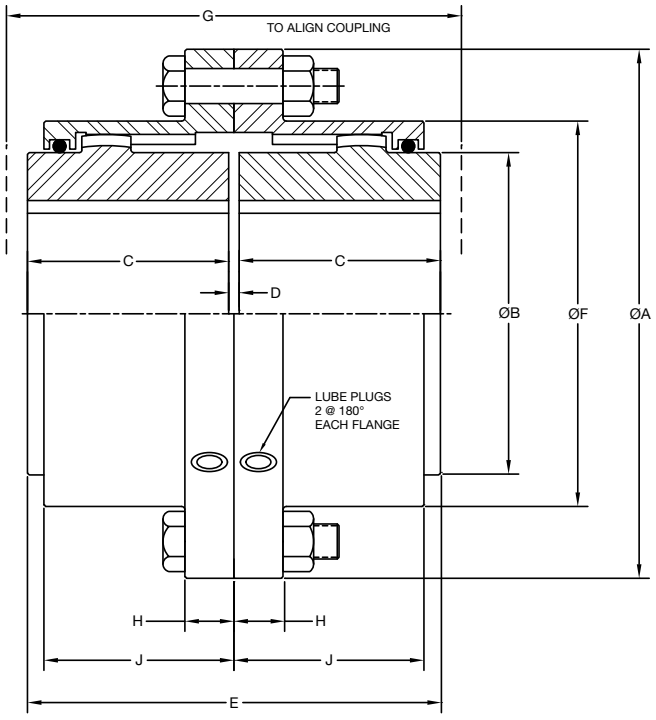
Flexible Couplings
Series FD - High Torque

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	MR² Inertia
Size	NM	RPM	mm	A	B	C	D	E	F	G	H	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:

- ±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 0-ring seals keep lubricant in... contaminants out. Seals enshrouded to prevent damage.

BIBBY SERIES III GEAR COUPLING

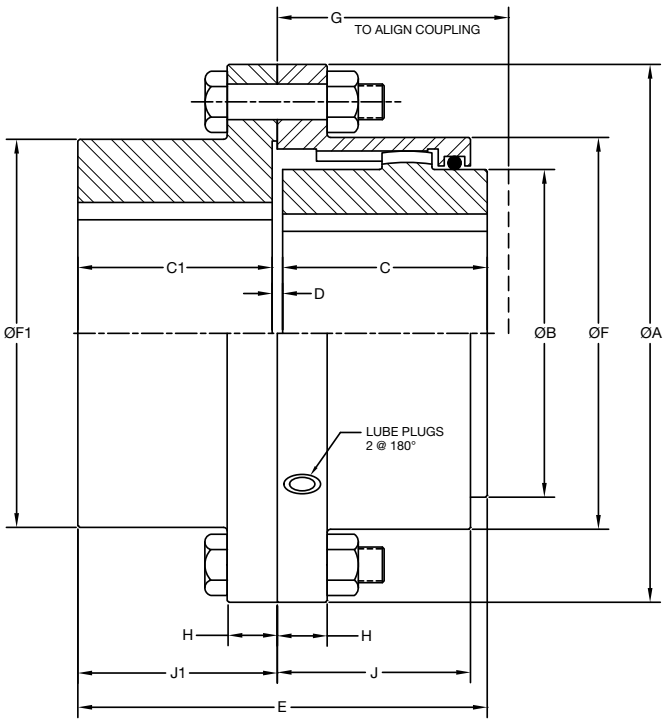
Flexible Couplings
Series FS - High Torque

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 Exposed Bolt

FS	Maximum Hub Bore (mm)		Torque	DIMENSIONS												Mass	MR² Inertia
Size	Flex	Rigid	Nm	A	B	C	C1	D	E	F	F1	G	H	J	J1	kg	kgm²
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

Contact the factory for additional details, modifications and variations.
Combined angular and parallel offset should not exceed + 3/4° 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



Bibby Turboflex Facilities

Europe

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West Yorkshire WF13 1EH - England
+44(0) 1924 460801
Disc, Gear, Grid Couplings, Overload Clutches

Africa

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Anderbolt, Boksburg, P.O. Box 16524
Atlasville, 1465 - South Africa
+27(0) 11 918-4270
Disc, Gear, Grid Couplings, Overload Clutches

The Brands of Altra Industrial Motion

Couplings

Ameridrives
www.ameridrives.com

Bibby Turboflex
www.bibbyturboflex.com

Guardian Couplings
www.guardiancouplings.com

Huco
www.huco.com

Lamiflex Couplings
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Stromag
www.stromag.com

TB Wood's
www.tbwoods.com

Geared Cam Limit Switches

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Electric Clutches & Brakes

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Twiflex
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Stromag
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Svendborg Brakes
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Wichita Clutch
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Belted Drives

TB Wood's
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Gearing

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Boston Gear
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Delroyd Worm Gear
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Nuttall Gear
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Overrunning Clutches

Formsprag Clutch
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Marland Clutch
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Stieber
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