

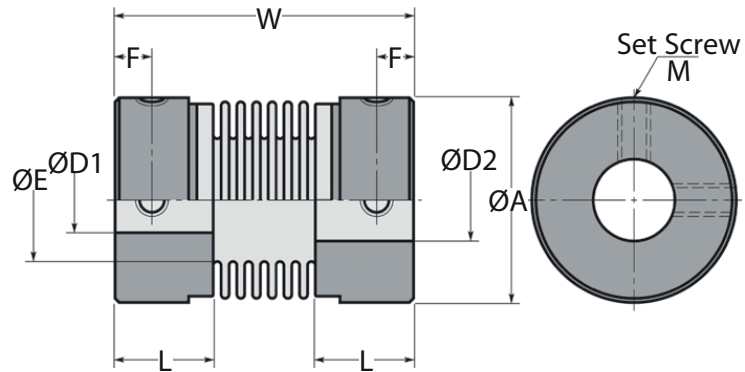
**MFB
MFBS**

COUPLINGS

**MFB
MFBS**

Bellows Flexible Shaft Coupling

Backlash Free, Set Screw Fixing : 0.3 - 6Nm, 3 - 16mm Bores



Part Number	Wrench Torque Nm	Rated Torque* Nm	Max Torque* Nm	Max Rpm	Moment of Inertia** kg·m ²	Static Torsional Stiffness Nm/rad	Errors of Eccentricity (mm)	Errors of Angularity	Errors of Shaft End Play
BRONZE BELLOWS									
MFB-12	0.5	0.3	0.6	52,000	9.0 × 10 ⁻⁸	82	0.10	1.5°	+0.40 -1.20
MFB-16	0.7	0.5	1.0	39,000	3.5 × 10 ⁻⁷	110	0.10	1.5°	+0.40 -1.20
MFB-20	0.7	0.8	1.6	31,000	9.9 × 10 ⁻⁷	180	0.15	2.0°	+0.60 -1.80
MFB-25	1.7	1.3	2.6	25,000	3.1 × 10 ⁻⁶	240	0.15	2.0°	+0.60 -1.80
MFB-32	1.7	2.0	4.0	19,000	9.2 × 10 ⁻⁶	330	0.20	2.0°	+0.80 -2.50
STAINLESS BELLOWS									
MFBS-12	0.5	0.5	1.0	52,000	2.1 × 10 ⁻⁷	100	0.10	1.5°	+0.40 -1.20
MFBS-16	0.7	1.0	2.0	39,000	8.0 × 10 ⁻⁷	150	0.10	1.5°	+0.40 -1.20
MFBS-20	0.7	1.5	3.0	31,000	2.3 × 10 ⁻⁶	220	0.15	2.0°	+0.60 -1.80
MFBS-25	1.7	2.0	4.0	25,000	7.0 × 10 ⁻⁶	330	0.15	2.0°	+0.60 -1.80
MFBS-32	1.7	3.0	6.0	19,000	2.1 × 10 ⁻⁵	490	0.20	2.0°	+0.80 -2.50

Part Number	Min. Bores ØD1, ØD2	Max Bores ØD1, ØD2	ØA	L	W	ØE	F	M	Mass** g
BRONZE BELLOWS									
MFB-12	3	6.35	12	7.5	23.5	7.0	2.5	M2.5	4.1
MFB-16	4	8.00	16	9.0	26.5	9.5	3.0	M3	9.0
MFB-20	5	10.00	20	10.0	32.0	12.5	3.5	M3	16.0
MFB-25	6	12.00	25	12.0	36.5	15.0	4.5	M4	32.0
MFB-32	6	16.00	32	13.5	42.0	21.0	5.5	M4	57.0
STAINLESS BELLOWS									
MFBS-12	3	6.35	12	7.5	23.5	7.0	2.5	M2.5	9.1
MFBS-16	4	8.00	16	9.0	26.5	9.5	3.0	M3	20.0
MFBS-20	5	10.00	20	10.0	32.0	12.5	3.5	M3	37.0
MFBS-25	6	12.00	25	12.0	36.5	15.0	4.5	M4	73.0
MFBS-32	6	16.00	32	13.5	42.0	21.0	5.5	M4	130.0

* Adjustment of Rated and Max. Torque for load fluctuations not required.

** Moment of inertia and mass figures based on maximum shaft bores.

Materials

MFB

Hub: Anodized Aluminium Alloy (A2017) Bellows: Phosphor Bronze (C5191)
Setscrews: SCM435 black oxide coating (can be replaced by Stainless Steel setscrews)

MFBS

Hub: Stainless Steel (SUS303) Bellows: Stainless Steel (SUS316L)
Setscrews: Stainless Steel (SUSXM7)

Bellows are attached to the hubs by adhesive.

Performance

Maximum Temperature (MFB): +100°C Approx. (MFBS): +150°C Approx.

Extras

Also available at extra cost: Boring out - add bore size required to end of part number eg. MFB-12-5-6 (bored Ø5mm & Ø6mm).

Pin holes, tapped holes, keyways (subject to a minimum order quantity of 5 pieces P.O.A. due to being pre-formed prior to assembly).

Features

• Constant velocity • Zero backlash • Primarily for use with encoders • High torsional stiffness and high response • Identical clockwise and anti-clockwise rotational characteristics • Complete absorption of eccentricity, angularity and end play by spring action of bellows configuration • Uniform rotational speed, even under misalignment.

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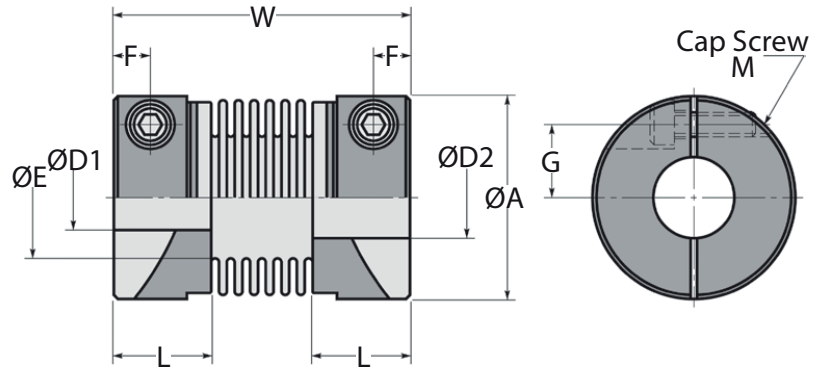
MFB-C
MFBS-C

COUPLINGS

Bellows Flexible Shaft Coupling

Backlash Free, Clamp Fixing : 0.3 - 6Nm, 4 - 14mm Bores

MFB-C
MFBS-C



Part Number	Wrench Torque Nm	Rated Torque* Nm	Max Torque* Nm	Max Rpm	Moment of Inertia** kg-m ²	Static Torsional Stiffness Nm/rad	Errors of Eccentricity (mm)	Errors of Angularity	Errors of Shaft End Play
BRONZE BELLOWS									
MFB-12C	0.5	0.3	0.6	52,000	9.7 x 10 ⁻⁸	82	0.10	1.5°	+0.40 -1.20
MFB-16C	1.0	0.5	1.0	39,000	3.7 x 10 ⁻⁷	110	0.10	1.5°	+0.40 -1.20
MFB-20C	1.0	0.8	1.6	31,000	1.0 x 10 ⁻⁷	180	0.15	2.0°	+0.60 -1.80
MFB-25C	1.5	1.3	2.6	25,000	3.1 x 10 ⁻⁶	240	0.15	2.0°	+0.60 -1.80
MFB-32C	2.5	2.0	4.0	19,000	9.6 x 10 ⁻⁶	330	0.20	2.0°	+0.80 -2.50
STAINLESS BELLOWS									
MFBS-12C	0.5	0.5	1.0	52,000	2.1 x 10 ⁻⁷	100	0.10	1.5°	+0.40 -1.20
MFBS-16C	1.0	1.0	2.0	39,000	8.1 x 10 ⁻⁷	150	0.10	1.5°	+0.40 -1.20
MFBS-20C	1.0	1.5	3.0	31,000	2.3 x 10 ⁻⁶	220	0.15	2.0°	+0.60 -1.80
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MFBS-32C	2.5	3.0	6.0	19,000	2.1 x 10 ⁻⁵	490	0.20	2.0°	+0.80 -2.50

Part Number	Min. Bores ØD1, ØD2	Max Bores ØD1, ØD2	ØA	L	W	ØE	F	G	M	Mass** g
BRONZE BELLOWS										
MFB-12C	4	5.00	12	7.5	23.5	7.0	2.25	4.0	M2	3.8
MFB-16C	5	6.35	16	9.0	26.5	9.5	3.00	5.0	M2.5	9.8
MFB-20C	6	8.00	20	10.0	32.0	12.5	3.50	6.5	M2.5	16.0
MFB-25C	8	10.00	25	12.0	36.5	15.0	4.50	9.0	M3	32.0
MFB-32C	8	14.00	32	13.5	42.0	21.0	5.00	11.0	M4	58.0
STAINLESS BELLOWS										
MFBS-12C	4	5.00	12	7.5	23.5	7.0	2.25	4.0	M2	9.2
MFBS-16C	5	6.35	16	9.0	26.5	9.5	3.00	5.0	M2.5	22.0
MFBS-20C	6	8.00	20	10.0	32.0	12.5	3.50	6.5	M2.5	38.0
MFBS-25C	8	10.00	25	12.0	36.5	15.0	4.50	9.0	M3	74.0
MFBS-32C	8	14.00	32	13.5	42.0	21.0	5.00	11.0	M4	130.0

* Adjustment of Rated and Max. Torque for load fluctuations not required.

** Moment of inertia and mass figures based on maximum shaft bores.

Materials

MFB-C

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