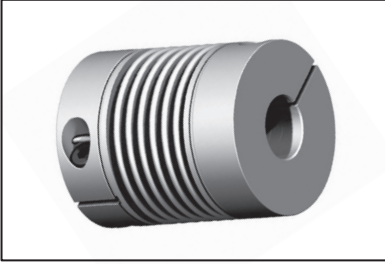


MRBCAD
Drawings
Available

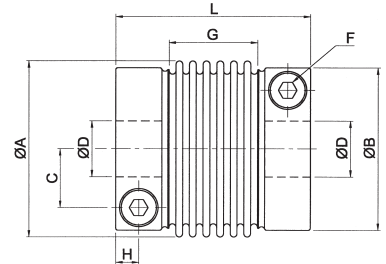
Bellows Flexible Coupling

Backlash Free **Clamp Fixing**

Stainless Steel Bellows
High stiffness
High torque in compact package
Bores to 2-1/8" - 55mm

Technical Data

Size	Nominal Torque	Moment of Inertia	Torsional Resistance	Max. Misalignment			Mass	Torque to Tighten Screws
	Nm (lb-in)	10 ³ kgm ² (lb-in ²)	10 Nm/rad (lb-ft/Deg)	Axial	Lateral	Angular		Nm (lb-in)
				mm (inch)	mm (inch)	Degrees		
MRB50	25 (221)	0.09 (0.3069)	12 (154)	0.5 (0.0195)	0.2 (0.008)	2° (0.078)	0.22 (0.4796)	10 (88.5)
MRB60	50 (443)	0.22 (0.7502)	22 (282)	0.5 (0.0195)	0.2 (0.008)	2° (0.078)	0.43 (0.9374)	18 (159.3)
MRB80	125 (1106)	0.75 (2.5575)	44 (565)	0.5 (0.0195)	0.2 (0.008)	2° (0.078)	0.90 (1.962)	40 (354)
MRB101*	270 (2390)	2.18 (7.43)	111 (1429)	1.2 (0.047)	0.2 (0.008)	2°	1.4 (3.08)	115 (1018)



Coupling must be selected so that the nominal torque M_N is higher than the highest operational torque of the application (i.e., during acceleration). Exceeding the nominal torque M_N can result in a permanent distortion of the metal bellows. Overall length tolerance is +/- 1-2mm.

*MRB100 superseded by MRB101

Dimensions: mm (inch)

Size	ØA mm (inch)	ØB mm (inch)	C mm (inch)	D mm (inch)	G mm (inch)	H mm (inch)	L mm (inch)	F screw size	M mm (inch)	ØD		Bushings to give finished bore sizes
										min. mm (inch)	max. mm (inch)	
MRB50	50 (1.97)	46 (1.81)	17 (0.67)	28 (1.102)	35 (1.38)	6.5 (0.256)	61 (2.40)	M5	20 (0.78)	10 (0.39)	28 (1.102)	14, 15, 16, 19, 24, 25mm, 1/2, 5/8, 3/4, 7/8, 1.000"
MRB60	61 (2.40)	56 (2.20)	20.5 (0.81)	28 (1.102)	33 (1.30)	8 (0.314)	66 (2.60)	M6	20 (0.78)	15 (0.590)	34 (1.339)	15, 16, 19, 24, 25mm, 5/8, 3/4, 7/8, 1.000"
MRB80	80 (3.15)	73 (2.87)	27 (1.06)	28 (1.102/1.65)	42 (1.65)	9.5 (0.374)	81 (3.19)	M8	20 (0.78/1.06)	16 (0.630)	44 (1.732)	16, 19, 24, 25, 30, 32, 35mm, 5/8, 3/4, 7/8, 1.000, 1.125, 1.250, 1.375
MRB101	101 (3.97)	101 (3.97)	36 (1.41)	42 (1.65)	42 (1.65)	12 (0.47)	100 (3.93)	M12	--	1"	55	Any Bore 27-55mm or 1" - 2 1/8"

Bore diameters smaller than ϕD_{min} are possible but reliable transmission of nominal torque M_N cannot be guaranteed. The frictional shaft/clamping hub connection allows a minimum clearance of 0.01 mm and a maximum clearance of 0.04 mm (i.e. H7/k6).

Performance

Maximum Temperature: +150°C Approx.

Material

Hub: Steel **Bellows:** Stainless Steel (SUS303L)

MRB101 Hub Aluminum

Other Info.

Supporting part for stepping motor enabling detection of point of origin. Zero Backlash. High torsional stiffness and response. Complete absorption of eccentricity, angularity and end play by spring action of bellows configuration.

Uniform rotation speed, even under misalignment.

Identical clockwise and anti-clockwise rotational characteristics.

Maintenance free oil and chemical resistant.

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