MRB

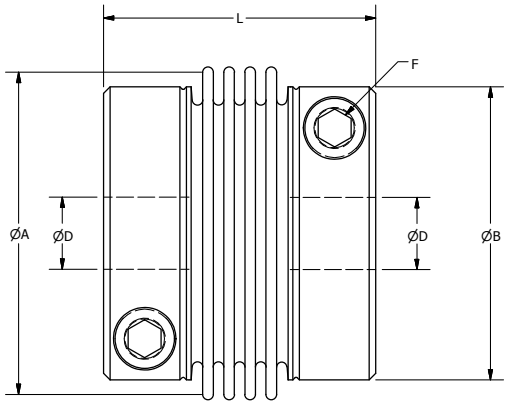
COUPLINGS

Bellows

Zero Backlash - Clamp fixing

MRB

Stainless Steel Bellows
High Torsional stiffness
High torque in compact package
14mm to 2-1/8" bores



See our website for CAD files

Technical Data

Part Number	Nominal Torque	Moment of inertia	Torsional Resistance	Max. Misalignment			Mass	Torque to Tighten Screws
				Axial	Laterial	Angular		
	lb-in	lb-in²	lb-ft/deg	in	in	deg	g	lb-in
MRB-50	221	0.308	154	0.020	0.008	2	222	88.5
MRB-60	443	0.752	293	0.020	0.008	2	431	159
MRB-80	1106	2.563	566	0.020	0.008	2	898	354
MRB-90	1947	4.140	1239	0.020	0.008	2	1497	708
MRB-100	3098	8.810	2301	0.020	0.008	2	2404	1195

Coupling must be selected so that the nominal torque is higher than the highest operational torque of the application (i.e., during acceleration). Exceeding the nominal torque can result in a permanent distortion of the metal bellow.

Dimensions:

Part Number	ØA in	ØB in	L in	F screw size	Bore Range	
					INCH	METRIC
MRB-50	1.97	1.81	2.40	M5	0.394 to 1.102	10 to 28
MRB-60	2.40	2.20	2.60	M6	0.591 to 1.339	15 to 34
MRB-80	3.04	2.87	3.19	M8	0.630 to 1.693	16 to 43
MRB-90	3.23	3.23	2.87	M10	0.787 to 1.654	20 to 42
MRB-100	3.97	3.97	3.23	M12	0.866 to 1.969	22 to 55

Bore diameters smaller than øDmin are possible but reliable transmission of nominal torque cannot be guaranteed. The frictional shaft/clamping hub connection allows a minimum clearance of 0.01

Performance
Maximum Temperature: +300°F
Maximum Speed: 20,000 RPM

Materials
Hub: Steel Bellows: Stainless Steel (SUS303L)

Testing in your application is necessary. You will need to assess duty cycles and confirm suitability with your own calculations. All figures listed are to be used for guidance only.

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 counter clockwise rotational characteristics.
Maintenance free.