

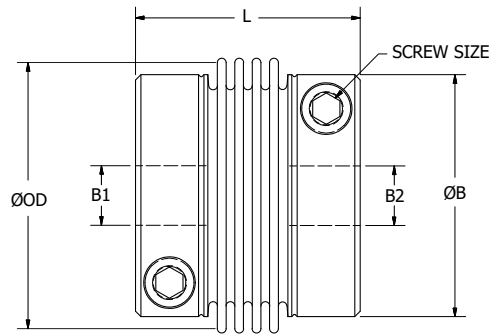
MRB

COUPLINGS

Zero Backlash Bellows

Clamp Fixing

MRB



Bellows - 303 Stainless
Hubs - Steel
High Torsional Stiffness
High Torque in Compact Package
0.394" to 1.969" Bores
10mm to 70mm Bores

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

Technical Data:

Part Number	Nominal Torque lb-in	Moment of inertia lb-in ²	Torsional Resistance lb-ft/deg	Max. Misalignment			Mass lbs.	Screw Torque lb-in
				Axial in.	Lateral in.	Angular deg.		
MRB-50	221	0.310	154	0.020	0.008	2°	0.5	89
MRB-60	443	0.752	287	0.020	0.008	2°	0.9	159
MRB-80	1106	2.563	531	0.020	0.008	2°	2	354
MRB-90	1947	4.140	1239	0.020	0.008	2°	3.3	708
MRB-100	3098	8.810	2301	0.020	0.008	2°	5.3	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 bellows.

Dimensions:

Part Number	ØOD in	ØB in	L in	Screw Size
MRB-50	1.97	1.81	2.40	M5
MRB-60	2.36	2.20	2.64	M6
MRB-80	3.03	2.87	3.19	M8
MRB-90	3.23	3.23	2.87	M10
MRB-100	3.97	3.97	3.23	M12

Bore Chart:

Coupler Size	Metric Bore Sizes														
	10	12	14	15	16	18	20	22	24	28	35	38	40	42	50
MRB-50
MRB-60
MRB-80
MRB-90
MRB-100
Bore Code	32	35	38	40	42	45	48	49	51	54	60	61	63	65	70

Bore Chart:

Coupler Size	Inch Bore Sizes												
	7/16"	1/2"	5/8"	3/4"	7/8"	1"	1-1/8"	1-1/4"	1-3/8"	1-1/2"	1-5/8"	1-3/4"	1-7/8"
MRB-50
MRB-60
MRB-80
MRB-90
MRB-100
Bore Code	34	36	41	47	50	53	55	57	59	62	64	66	68

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.
 Uniform rotation speed, even under misalignment.
 Identical clockwise and counter clockwise rotational characteristics.
 Maintenance free.

Bore diameters smaller than B1 are possible but reliable transmission of nominal torque cannot be guaranteed. The frictional shaft/clamping hub connection allows a minimum clearance of 0.0004"

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