

Flanged Millennium Design – ML Standard Operating Parameters

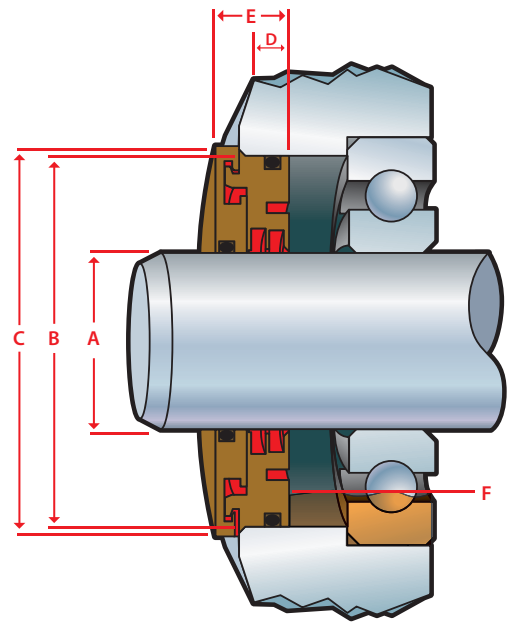
Total Eccentricity: .010" (.25 mm)
 Shaft Speed: Up to 7,000 fpm (35 m/s)
 Pressure: 0 psi / bar
 Temperature Range: -40 to 400 F (-40 to +204 C)
 Axial Movement: .010" (.25 mm) special designs up to .100" (2.55 mm)
 Shaft / Bore Tolerances: ± .002" (± .05 mm)
 Special designs available

Seal Material:

Standard Bronze
 Optional 302 SS, 304 SS, 316 SS, Carbon steel

O-Ring Material:

Standard FKM
 Optional NBR, FDA silicone, EPDM, Aflas®



MOUNTING		LUBRICATION		
	Position	Grease	Oil	Dry
Horizontal	Y	Y	Y	Y
Vertical Up	Y*	Y	Y	Y
Vertical Down	Y	Y	N	Y

*Optional "MX" design (w/o drain port) recommended

Retain Grease and oil splash (operating oil level in cavity between seal and bearing must be below inboard oil drain-back port of seal "F")

Exclude Equipment Heavy water spray and dry contaminants from bearing cavity
 Gearboxes, motors, pumps, mixers, turbines, blowers and custom equipment

STANDARD DIMENSIONS					
Type	"A" Shaft Diameter Range Inch	"B" Bore Diameter Range Is Shaft Diameter "A" + Min-Max	"C" Flange Diameter = "B"+	"D" In Bore Depth	"E" Overall Seal Width
MLE ³	0.610 – 1.575	0.394 – 1.575	0.236 ¹	0.276	0.551
MLE ³	1.576 – 2.362	0.472 – 1.575	0.236 ¹	0.315	0.591
MLE ³	2.363 – 3.150	0.630 – 1.575	0.236	0.354	0.630
MLE	3.151 – 5.118	0.866 – 1.575	0.236	0.354	0.630
MLE	5.119 – 6.000 ²	0.945 – 1.575	0.236	0.433	0.709

Type	"A" Shaft Diameter Range Metric	"B" Bore Diameter Range Is Shaft Diameter "A" + Min-Max	"C" Flange Diameter = "B"+	"D" In Bore Depth	"E" Overall Seal Width
MLM ³	15.5 – 40.0	10.0 – 40.0	6.0 ¹	7.0	14.0
MLM ³	40.1 – 60.0	12.0 – 40.0	6.0 ¹	8.0	15.0
MLM ³	60.1 – 80.0	16.0 – 40.0	6.0	9.0	16.0
MLM	80.1 – 130.0	22.0 – 40.0	6.0	9.0	16.0
MLM	130.1 – 152.4 ²	24.0 – 40.0	6.0	11.0	18.0

¹ May be larger for small cross sections, consult factory for dimensions
² Contact factory for requirements outside of standard dimensions listed above
³ Shaft diameters under 1.575" (40 mm) & cross sections under .433" (11mm) have standard inboard oil splash grooves
 Note: Cross Section = (Bore – Shaft) / 2