

Non-Flanged Millennium Design – MN Standard Operating Parameters

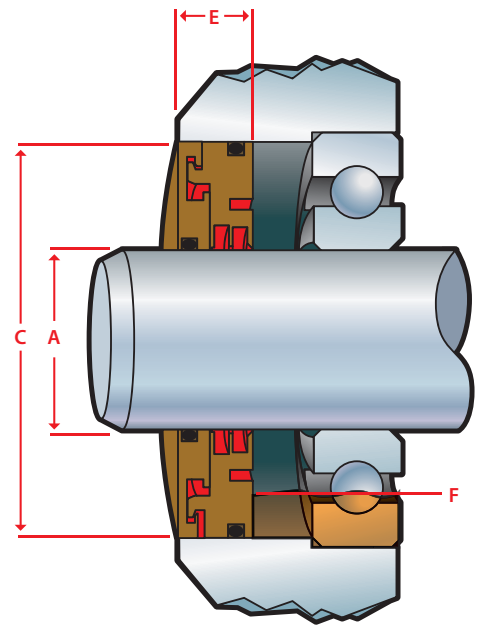
- Total Eccentricity: .010" (.25 mm)
- Shaft Speed: Up to 7,000 fpm (35 m/s)
- Pressure: 0 psi / bar
- Temperature Range: -40 to 400 F (-40 to +204 C)
- Axial Movement: .010" (.25 mm) special designs up to .100" (2.55 mm)
- Shaft / Bore Tolerances: ± .002" (± .05 mm)
Special designs available

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 | NR* | Y | Y | Y |
| Vertical Down | Y | Y | N | Y |

*Not Recommended (NR) If contaminant level is heavy see "ML" design (page 16)

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: Heavy water spray and dry contaminants from bearing cavity

Equipment: 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 | "E" In Bore Depth |
| MNE ² | 0.610 – 1.575 | 0.748 – 1.575 | 0.551 |
| MNE ² | 1.576 – 2.362 | 0.748 – 1.575 | 0.591 |
| MNE ² | 2.363 – 3.150 | 0.748 – 1.575 | 0.630 |
| MNE | 3.151 – 5.118 | 0.866 – 1.575 | 0.630 |
| MNE | 5.119 – 6.000 ¹ | 0.945 – 1.575 | 0.709 |

| Type | "A" Shaft Diameter Range Metric | "B" Bore Diameter Range Is Shaft Diameter "A" + Min-Max | "E" In Bore Depth |
|------------------|---------------------------------|---|-------------------|
| MNM ² | 15.5 – 40.0 | 19.0 – 40.0 | 14.0 |
| MNM ² | 40.1 – 60.0 | 19.0 – 40.0 | 15.0 |
| MNM ² | 60.1 – 80.0 | 19.0 – 40.0 | 16.0 |
| MNM | 80.1 – 130.0 | 22.0 – 40.0 | 16.0 |
| MNM | 130.1 – 152.4 ¹ | 24.0 – 40.0 | 18.0 |

¹ Contact factory for requirements outside of standard dimensions listed above

² Shaft diameters under 1.575" (40 mm) & cross sections under .433" (11 mm) have standard inboard oil splash grooves

Note: Cross Section = (Bore – Shaft) / 2