

Split Millennium Design – SM Standard Operating Parameters

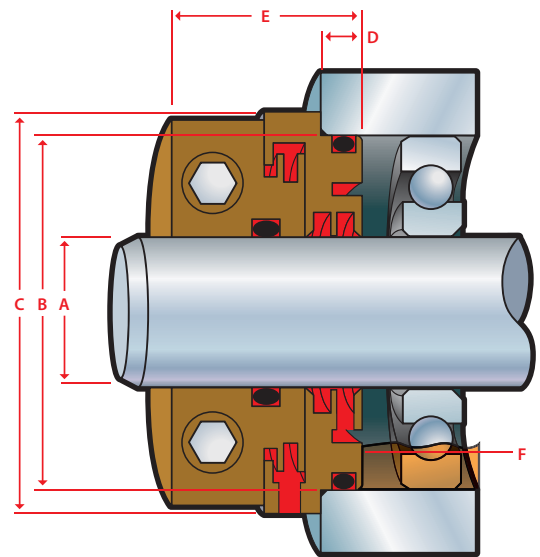
- Total Eccentricity: .020" (.51 mm)
- Shaft Speed: Up to 3,000 fpm⁴ (15 m/s)
- Pressure: 0 psi / bar
- Temperature Range: -40 to 250 F (-40 to 121 C)
- Axial Movement: .020" (.51 mm) special designs up to .070" (1.78 mm)
- Shaft / Bore Tolerances: ± .002" (± .05 mm)
Special designs available

Seal Material:

- Standard Bronze
- Optional 302 SS, 304 SS, 316 SS, Carbon Steel

O-Ring Material:

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



Up to 37" (940 mm) Shaft Diameter

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

*Locking collar may be required

Retain

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

Exclude Equipment

Heavy water spray and dry contaminants from bearing cavity
For field retrofits where equipment can not be uncoupled or disassembled. Requires no wear sleeves or shaft refurbishment. Motors, pumps, mixers, gearboxes, 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 |
| SME ³ | 0.610 – 1.575 | 0.709 – 1.575 | 0.236 ¹ | 0.276 | 1.078 |
| SME | 1.576 – 2.362 | 0.709 – 1.575 | 0.236 ¹ | 0.315 | 1.117 |
| SME | 2.363 – 3.150 | 0.709 – 1.575 | 0.236 ¹ | 0.354 | 1.156 |
| SME | 3.151 – 5.118 | 0.787 – 1.575 | 0.236 ¹ | 0.354 | 1.257 |
| SME | 5.119 – 10.000 ² | 0.945 – 1.575 | 0.236 ¹ | 0.433 | 1.436 |

| 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 |
|------------------|---------------------------------|---|-----------------------------|-------------------|------------------------|
| SMM ³ | 15.5 – 40.0 | 18.0 – 40.0 | 6.0 ¹ | 7.0 | 27.4 |
| SMM | 40.1 – 60.0 | 18.0 – 40.0 | 6.0 ¹ | 8.0 | 28.4 |
| SMM | 60.1 – 80.0 | 18.0 – 40.0 | 6.0 ¹ | 9.0 | 29.4 |
| SMM | 80.1 – 130.0 | 20.0 – 40.0 | 6.0 ¹ | 9.0 | 31.9 |
| SMM | 130.1 – 254.0 ² | 24.0 – 40.0 | 6.0 ¹ | 11.0 | 36.5 |

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" (11 mm) have standard inboard oil splash grooves
⁴ Contact factory for speeds over 3,000 fpm (15 m/s)
 Note: Cross Section = (Bore – Shaft) / 2