

SPI-M270

Metal Bellow Cartridge EagleBurgmann MFL WT80 Series
Replacement seal
Technical Data Sheet



Features

- Drive lugs
- Welded metal bellows
- Bi-directional
- Balanced
- Flexible graphite auxiliary seal
- Available with DOUBLE-PLY Bellows
- SPI-M270 seal, equivalent to Type MFL WT80

SPI-M270 mechanical seal featuring welded metal bellows static seal. The bellows adopts advanced welding technology. 45°C wave design, which makes the stress distribution more reasonable and flexibility, to ensure seals has advantages of reliable sealing and good matching property. The Type 680 incorporates drive lugs under the bellows that provide added rotational drive. This reduces torsional stress on the bellows and makes the Type 680 the ideal seal for maximum reliability and an extended life in viscous or high-temperature applications. The seal has excellent dynamic performance and has a wide range of applications.

Recommended Applications

- Refining technology, Oil and gas industry
- Extreme ranges of temperature and high-viscosity media
- Pumps
- Special Rotating Equipment.

Operating range

Shaft diameter: $d_1=16...100\text{mm}$

Pressure: $p=0...2.5\text{Mpa}$ (362.5psi)

Temperature: $t = -75\text{ }^\circ\text{C} \dots 400\text{ }^\circ\text{C}$ (-103°F to 752°F)-SPI-M270

$t = -40\text{ }^\circ\text{C} \dots 290\text{ }^\circ\text{C}$ (-40°F to 554°F)-

SPI-M270

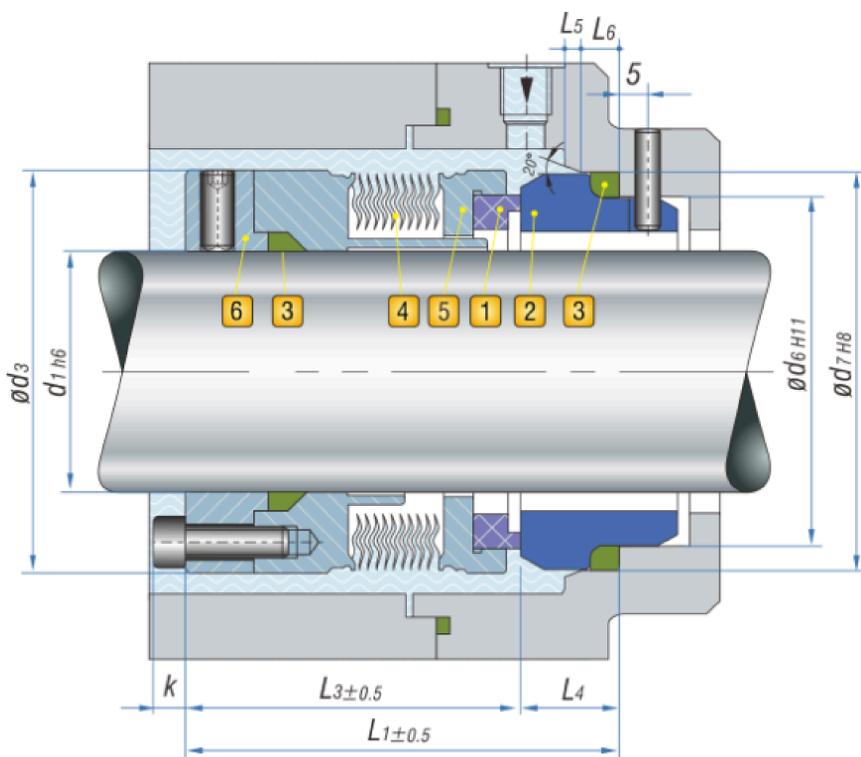
$t = -20\text{ }^\circ\text{C} \dots 200\text{ }^\circ\text{C}$ (-4°F to 428°F)-

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Sliding velocity: $V_g \leq 25\text{m/s}$ (or $V_g \leq 5,000\text{rpm}$) (82ft/m)

Notes: The range of pressure, temperature and sliding velocity is depend on seals combination materials

Product Structure



Combination Materials

1. BELLOWS

- AM350 T₈
- Hastelloy C-276 M₅
- Inconel 718 M₆

4. ROTARY HEAD

- Alloy 42 T₄
- Hastelloy C-276 M₅
- Alloy 42 T₄

2. SEAL FACE

- Carbon graphite A_D
- Sintered Silicon O₁
- Sintered Silicon O₁

5. METAL PARTS

- CrNiMo-steel G
- CrNiMo-steel G
- Hastelloy C-276 M₅

3. AUXILIARY SEAL

- Flexible Graphite G
- Flexible Graphite G
- Flexible Graphite G

6. APPLICATION

- Non-corrosive medium
- Mildly corrosive medium
- Corrosive medium