

# SPI-M285

Metal Bellow Mechanical Seal  
Technical Data Sheet



## Features

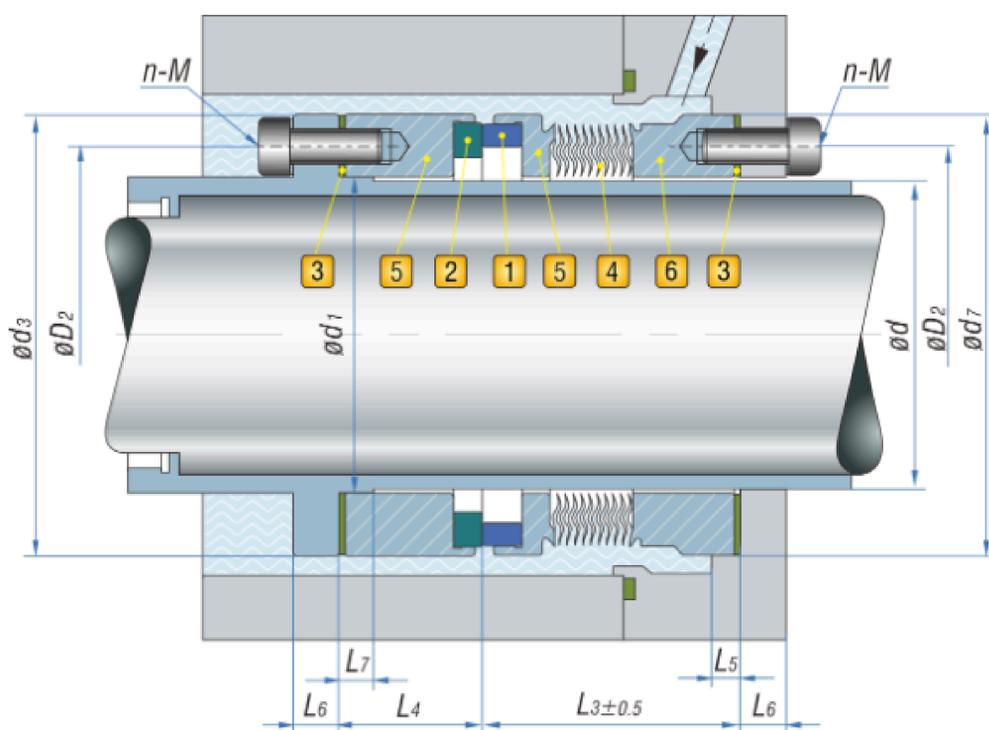
Welded metal bellows  
Static structure  
Balanced  
Flexible graphite auxiliary seal  
Available with DOUBLE-PLY Bellows  
SPI-M285 seal, equivalent to Type 285

SPI-M285 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 structure adopts a static design, which eliminates the influence of centrifugal force on the elastic element, and is suitable for high-speed working conditions ; the seal has excellent dynamic performance and has a wide range of applications.

## Recommended Applications

Refining technology, Oil and gas industry  
Process industry  
Pumps  
Special Rotating Equipment.

## Product Structure



## Operating range

**Shaft diameter:** d1=30...100mm

**Pressure:** p=0...2.5Mpa (362.5psi)

**Temperature:** t = -40 °C ...290 °C (-40°F to 554°F)-SPI-M285

t = -20 °C ...220 °C (-4°F to 428°F)-SPI-M285

t = -20 °C ...150 °C (-4°F to 302°F)-SPI-M285

**Sliding velocity:** Vg≤25m/s (or Vg≤5,000rpm) (82ft/s)

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

## Combination Materials

### 1. BELLOWS

- CrNiMo-steel G
- AM350 T<sub>8</sub>
- Hastelloy C-276 M<sub>5</sub>

### 2. SEAL FACE

- Carbon graphite A<sub>D</sub>
- antimony impreg
- Sintered Silicon O<sub>1</sub>
- Sintered Silicon O<sub>1</sub>
- Carbide SSIC
- Carbide SSIC

### 3. AUXILIARY SEAL

- PTFE G
- PTFE G
- PTFE G

### 4. ROTARY HEAD

- CrNiMo-steel G
- Alloy 42 T<sub>4</sub>
- Hastelloy C-276 M<sub>5</sub>

### 5. METAL PARTS

- CrNiMo-steel G
- CrNiMo-steel G
- Hastelloy C-276 M<sub>5</sub>

### 6. APPLICATION

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