

# SPI-M145

Flowserve RO mechanical seal replacement  
Technical Data Sheet



## Features

Multiple Springs  
Bi-directional  
Common Sedal  
ANSI Standard  
Equivalent to RO

Mechanical seal SPI-M145 with simple, proven, robust, open rotary unit design. Reliable performance, can used in chemical, pharmaceutical, wastewater, food and beverage, pulp and paper industries.

## Recommended Applications

Chemical industry  
Industry pumps  
Process Pumps  
Oil refining and petrochemical industry  
Other Rotating Equipment

## Operating range

**Shaft diameter:**  $d_1=(0.625''...4.500'')$

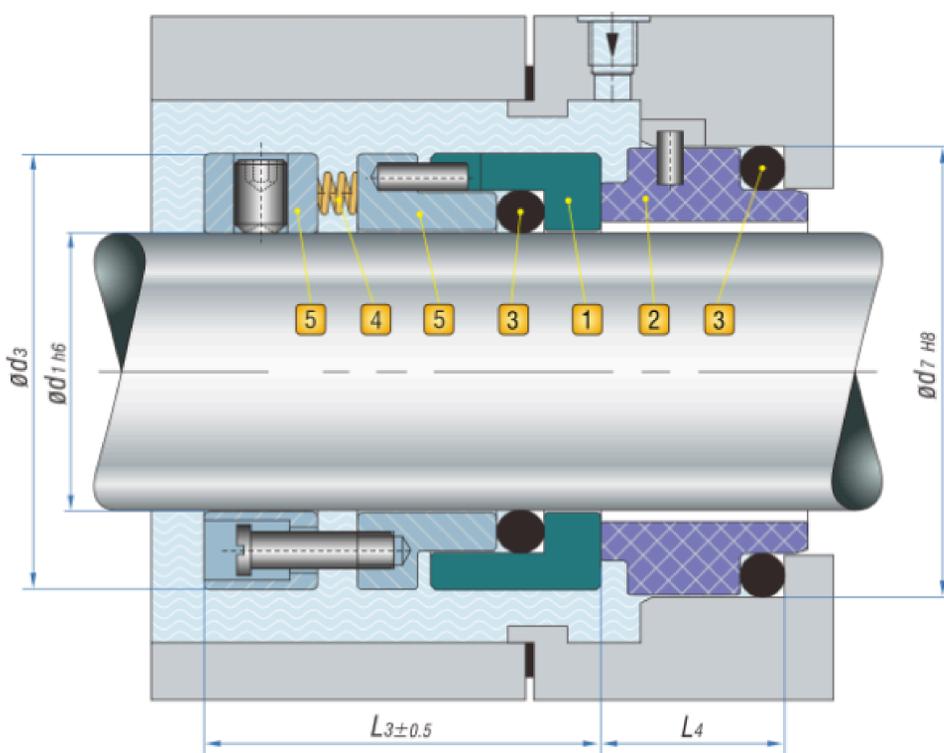
**Pressure:**  $p=0...2.0\text{Mpa}$  (290psi)

**Temperature:**  $t = -40\text{ }^\circ\text{C} .. 260\text{ }^\circ\text{C}$ (-40°F to 500°F)

**Sliding velocity:**  $V_g \leq 23\text{m/s}$  (75.44ft/s)

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

## Product Structure



## Combination Materials

### 1. Rotary Face

- Tungsten Carbide W
- Silicon Carbide O
- Cr-Steel (Solid) E

### 2. Stationary Seat

- Carbon graph hite  $A_k$
- Silicon Carbide O
- Tungsten Carbide W

### 3. Auxiliary Seal

- Elastomers O-ring
- FKM V
- EPDM E
- FFKM K
- Encapsulated O-ring
- FEP Jacketed FKM  $M_1$

### 4. Spring

- GrNi-Steel F
- GrNiMo-Steel G

### 5. Metal Parts

- GrNi-Steel F
- GrNiMo-Steel G