

# SPI-M510

EagleBurgmann BT-PN Replacement  
Technical Data Sheet



## Features

Single and elastomer bellows mechanical seal  
Bi-directional  
Non-sliding design structure, elastomer bellows automatically compensates for primary ring wear.  
Vailable in metric

SPI-M510 is a compact, Bi-direction, balanced elastomer diaphragm mechanical seal. With special spring arrangement allows short axial installation length. It is suitable for small shaft diameter centrifugal water pumps, jet pumps, swimming pool pumps and wastewater pumps.

## Recommended Applications

Water and waste water technology  
Process pumps  
Industrial pumps  
Swimming pool pumps  
Petroleum chemical industry  
Other Rotating Equipment

## Operating range

**Shaft diameter:**  $d_1=8...40\text{mm}$

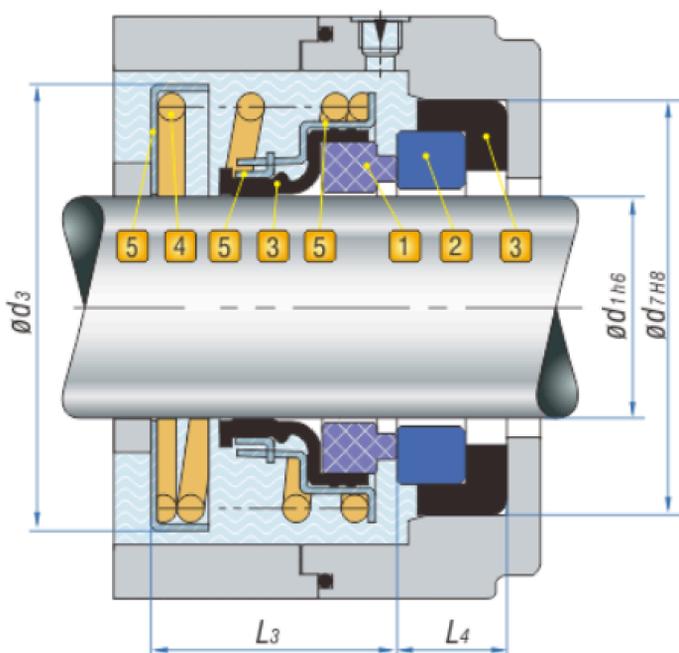
**Pressure:**  $p=0...1.20\text{Mpa}$

**Temperature:**  $t = -20\text{ }^\circ\text{C} \dots 120\text{ }^\circ\text{C}$

**Sliding velocity:**  $V_g \leq 10\text{m/s}$

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

## Product Structure



## Combination Materials

### 1. Rotary Face

Carbon graphite resin impregnated **Ak**  
Silicon carbide (RBSiC) **O**  
Hot-Pressing Carbon **Ac**  
Tungsten carbide **Wl**

### 2. Stationary Seat

Aluminium oxide (Ceramic) **B**  
Silicon carbide (RBSiC) **O**  
Tungsten carbide **Wl**

### 3. Auxiliary Seal

Nitrile-Butadiene-Rubber (NBR) **P**  
Fluorocarbon-Rubber (FKM) **V**  
Ethylene-Propylene-Diene (EPDM) **E**

### 4. Spring

Stainless Steel (SUS304) **F**  
Stainless Steel (SUS316) **G**

### 5. Metal Parts

Stainless Steel (SUS304) **F**  
Stainless Steel (SUS316) **G**