

SPI-M430

EagleBurgmann Type BT-AR Replacement
Technical Data Sheet



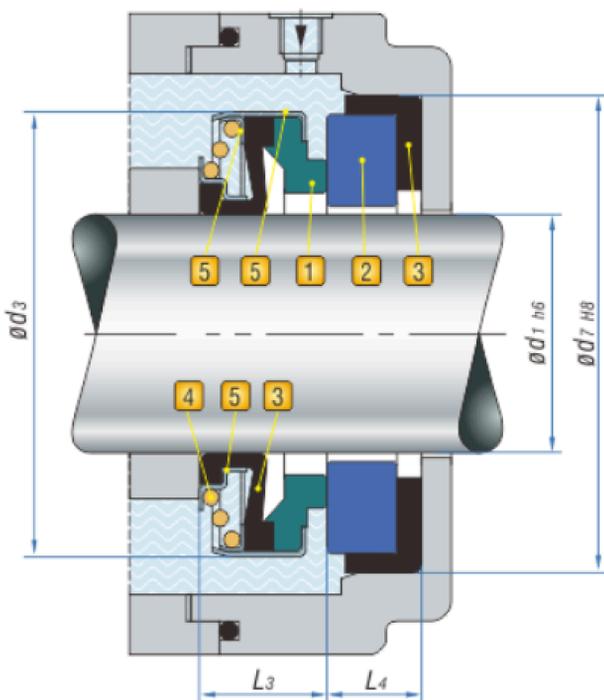
Features

Compact structure design, short axial installation length
Stationary seat with wide face design, offers maximum durability and performance
Insensitive to shaft play and run out due to special bellows arrangement
Can used as double face mechanical seals in two sets arrangement
Reduced Maintenance: The static design minimizes wear on rotating components
Axial Compensation: Automatic adjustment maintains optimal seal face contact

Recommended Applications

Water and waste water technology
Food and beverage industry
Household and garden pumps
Swimming pool pumps
Centrifugal pumps in chemical processing
Other Rotating Equipment

Product Structure



SPI-M430 is a compact elastomer bellows mechanical seal. This allows for more economic pump construction and saves material due to short axial length. This model is designed for mass production, with stable product performance and high cost-effectiveness. Widely used in household pumps, garden pumps, swimming pool pumps, dishwasher pumps, general centrifugal pumps and sewage pumps.

Operating range

Shaft diameter: $d_1=6\text{...}70$ mm
Pressure: $p=0\text{...}0.4$ Mpa (58 psi)
Temperature: $t = -20$ °C .. 150 °C (-4°F to 302°F)
Sliding velocity: $V_g \leq 10$ m/s (32.8 ft/s)
Notes: The range of pressure, temperature and sliding velocity is depend on seals combination materials

Combination Materials

1. Rotary Face

Carbon graphite resin impregnated **Ak**
Reaction Bonded Silicon carbide (RBSiC) **O**
Sintered Silicone Carbide (SSiC) **O1**
Hot-pressing carbon **Ac**
Tungsten carbide **W1**

2. Stationary Seat

Aluminium oxide **B**
Reaction Bonded Silicon carbide (RBSiC) **O**
Sintered Silicone Carbide (SSiC) **O1**
Tungsten carbide **W1**

3. Auxiliary Seal

Nitrile-Butadiene-Rubber (NBR) **P**
Fluorocarbon-Rubber (Viton) **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**