

SPI-M420

John Crane Type 6 Replacemen
Technical Data Sheet



Features

Compact Structure
Easy and fast to change the seal parts
Reliable in performance, longer service life
Ease of Maintenance

The SPI-M420 mechanical seal is a versatile and widely used sealing solution for rotating equipment across various industries.

Designed for moderate-duty applications, the SPI-M420 seal combines robust engineering with cost-effective performance, making it an ideal choice for pumps, mixers, and other machinery requiring reliable and stable sealing.

The SPI-M420 seal is widely used in small power circulation pumps, centrifugal pumps, jet pumps, swimming pool pumps, and other small rotating shaft equipment, where dependable operation and long service life are essential.

Recommended Applications

Process pumps
Centrifugal pumps
Swimming pool pumps
Other rotary equipment.

Operating range

Shaft diameter: $d_1=0.375'' \dots 1.000''$

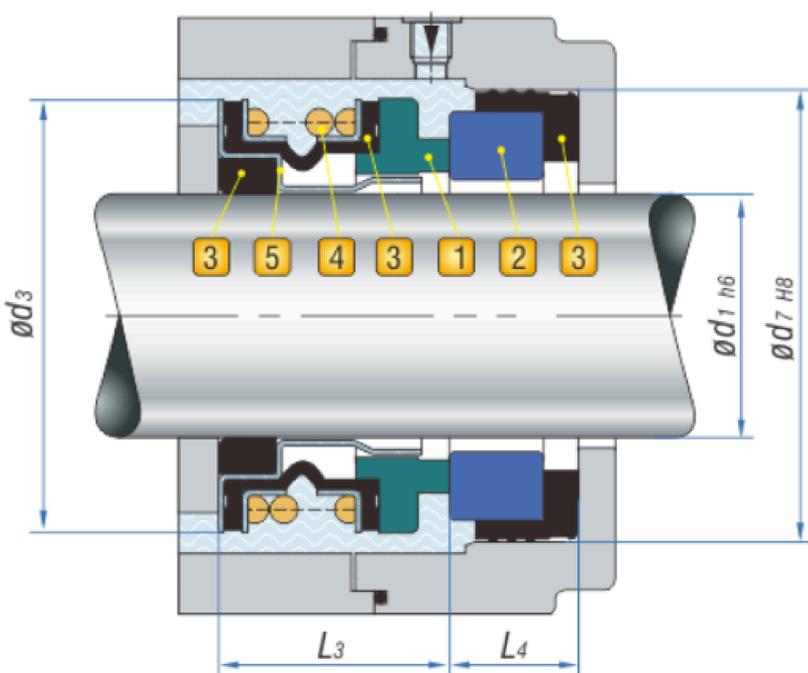
Pressure: $p=0\dots 0.5\text{Mpa}$ (72.5psi)

Temperature: $t = -30\text{ }^\circ\text{C} \dots 180\text{ }^\circ\text{C}$ (-22°F to 356°F)

Sliding velocity: $V_g \leq 3600\text{r/min}$

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**

Hot-Pressing carbon **Ac**

Reaction Bonded Silicon carbide (RBSiC) **O**

Sintered Silicone Carbide (SSiC) **O1**

Tungsten carbide **W1**

2. Stationary Seat

Aluminium oxide (Ceramic) **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**