

SPI-M490

Auto Cooling Pump Seal
Technical Data Sheet



Features

Good performance in the high-speed or vibration working condition

Can be installed to various shaft sizes due to the clearance between the shaft and seal components
Single-Spring, unbalanced elastomer bellows mechanical seal

SPI-M490 is a compact, Bi-direction elastomer bellow cartridge mechanical seal. This type of seal is characterized by easy installation, reliable driving, stable sealing performance and long working life. Suitable for internal combustion engine coolant pumps, small shaft diameter centrifugal water pumps, and jet pumps.

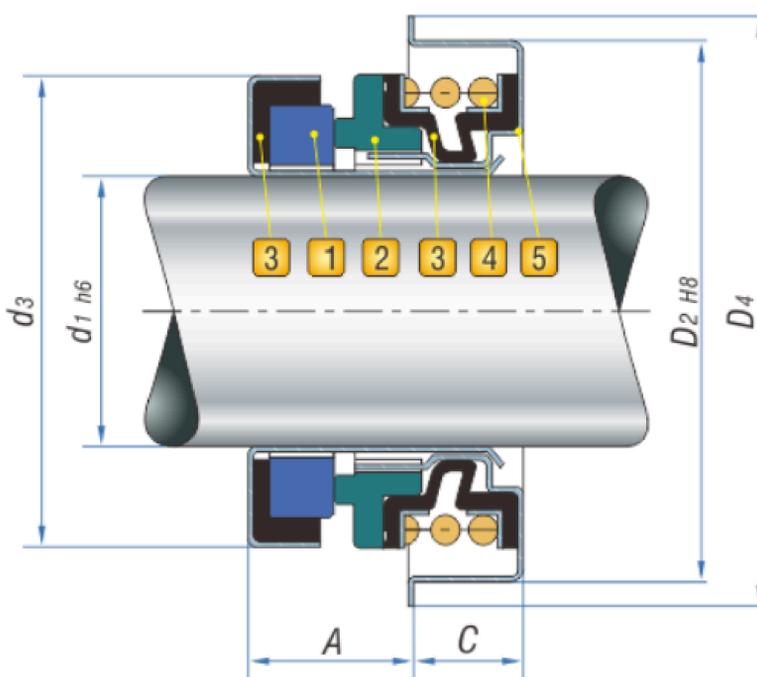
Recommended Applications

Auto industry
Coolant Pumps
Swimming pool pumps
High-speed equipment

Operating range

Shaft diameter: $d_1=10\text{...}20\text{mm}$
Pressure: $p=0\text{...}0.3\text{Mpa}$ (43.5psi)
Temperature: $t = -35\text{ }^\circ\text{C} \text{...}150\text{ }^\circ\text{C}$ (-31°F to 302°F)
Speed: $n \leq 6000\text{m/s}$
Notes: The range of pressure, temperature and sliding velocity is depend on seals combination materials

Product Structure



Combination Materials

1. Rotary Face

Aluminium oxide B

Reaction Bonded Silicon carbide (RBSiC) O

2. Stationary Seat

Carbon graphite resin impregnated Ak

Hot-pressing carbon Ac

Reaction Bonded Silicon carbide (RBSiC) O

3. Auxiliary Seal

Nitrile-Butadiene-Rubber (NBR) P

Fluorocarbon-Rubber (Viton) V

Hydrogenated nitrile-butadiene rubber (H-NBR) H

4. Spring

Stainless Steel (SUS304) F

Stainless Steel (SUS316) G

5. Metal Parts

Stainless Steel (SUS304) F

Stainless Steel (SUS316) G