

SPI-M485

John Crane Type 6A Replacement
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

Compact Configuration: The cartridge-style assembly simplifies installation and alignment while protecting critical components from external contamination.

SPI-M485 is a compact, bi-direction elastomer bellow mechanical seal. The compensation ring of this product does not rotate with the axis, is not affected by centrifugal force, and can be used at a high speed. Seal rings and elastomers are available in a variety of materials to meet different application conditions. Widely used in the 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: $d_1=10\text{...}30\text{m}$ (0.375" ...0.750")

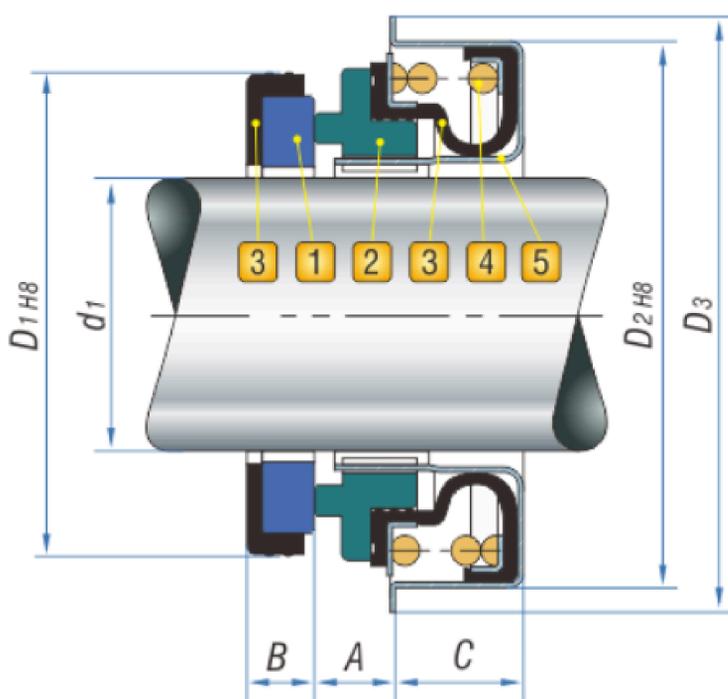
Pressure: $p=0\text{...}0.3\text{Mpa}$ (43.5psi)

Temperature: $t = -35\text{ }^\circ\text{C} \text{...}150\text{ }^\circ\text{C}$ (-31°F to 302°F)

Speed: $n\leq 5000\text{m/s}$

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