

SPI-M355

John Crane Type 1 Replacement
Technical Data Sheet



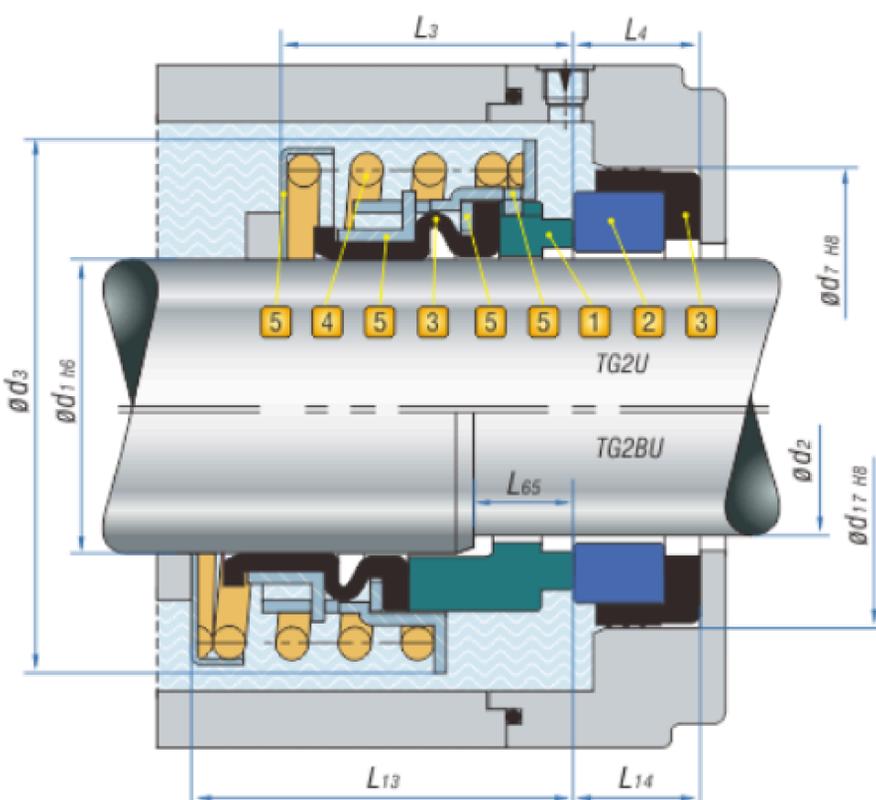
Features

Single and elastomer bellows mechanical seal
Bi-directional
Non-sliding design structure, elastomer bellows automatically compensates for primary ring wear.
SPI-M240, SPI-M240, SPI-M240, SPI-M240 show difference in the dimensional data, available with different standard working lengths.
Available in metric and inch sizes
SPI-M240 can also be used as double face mechanical seals in two sets arrangement

Recommended Applications

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

Product Structure



SPI-M240 model is designed for mass production. Each parts structure has a high degree of interchangeability and a highly versatile seal. It can automatically adjust to compensate for abnormal shaft-end play, run-out, primary ring wear and equipment tolerances, due to the elastomer diaphragm's excellent stretching and twisting capabilities.
Widely used in centrifugal pumps, rotary pumps, turbines, compressors, coolers and other rotating shaft equipment.

Operating range

Shaft diameter: $d_1 = 8 \dots 80 \text{ mm} (0.375" \dots 3.000")$
Pressure: $p = 0 \dots 1.0 \text{ Mpa} (145 \text{ psi})$
Temperature: $t = -20 \text{ }^\circ\text{C} \dots 150 \text{ }^\circ\text{C} (-4^\circ\text{F} \text{ to } 302^\circ\text{F})$
Sliding velocity: $V_g \leq 13 \text{ m/s} (42.6 \text{ ft/m})$

Notes: The range of pressure, temperature and sliding velocity is dependent on the seal combination materials.

Combination Materials

1. Rotary Face

Carbon graphite resin impregnated **Ak**
Silicon carbide (RBSiC) **O**
Hot-Pressing Carbon **Ac**
Tungsten carbide **W1**

2. Stationary Seat

Aluminium oxide (Ceramic) **B**
Silicon carbide (RBSiC) **O**
Tungsten carbide **W1**

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**