

SPI-M440

Elastomeric Diaphragm Seal
Technical Data Sheet



Features

Single and elastomer bellows mechanical seal
Bi-directional
Non-sliding design structure, elastomer bellows automatically compensates for primary ring wear.
Available in metric and inch sizes

SPI-M440 Mechanical seal SPI-M440 is single and unbalanced seal. Each part structure has a high degree of interchangeability and a highly versatile seal.

Recommended Applications

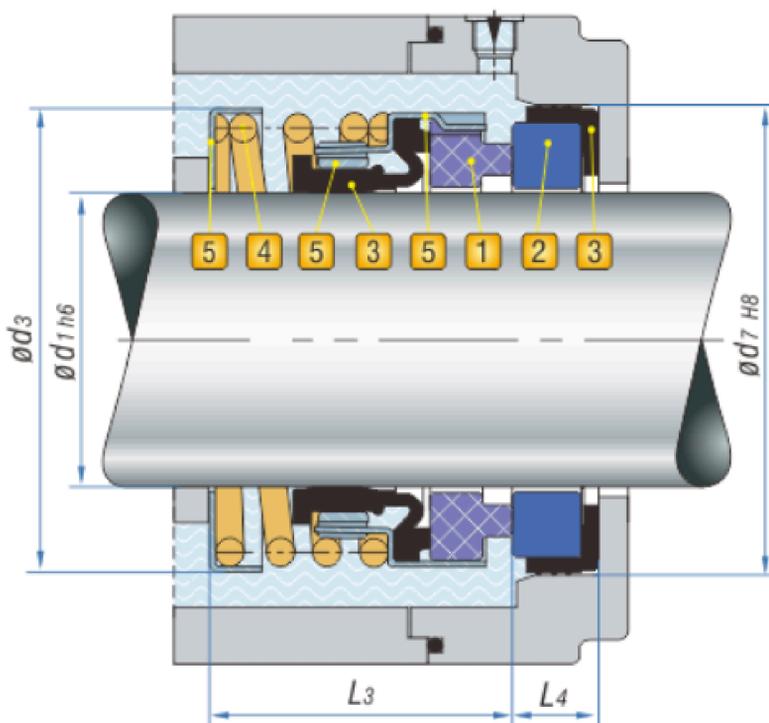
Water and waste water technology
Process pumps
Industrial pumps
Petroleum chemical industry
Other Rotating Equipment

Operating range

Shaft diameter: $d_1=14\text{...}80\text{mm}$
Pressure: $p=0\text{...}1.0\text{Mpa}$ (145psi)
Temperature: $t = -20\text{ }^\circ\text{C} \text{...}150\text{ }^\circ\text{C}$ (-4°F to 302°F)
Sliding velocity: $V_g \leq 13\text{m/s}$ (42.6ft/m)

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
Silicon carbide (RBSIC) O
Hot-Pressing Carbon Ac
Tungsten carbide Wl

2. Stationary Seat

Aluminium oxide (Ceramic) B
Silicon carbide (RBSIC) O
Tungsten carbide Wl

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