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# SPI-M345

John Crane Type 21 Replacement
Technical Data Sheet

## Features

Single and ealstomer bellows mechanical seal
Bi-directional
Non-sliding design structure,elastomer bellows automatically compensates for primary ring wear.
SPI-M345 show difference in the dimensional data, avaliable with different standard working lengths.
Vailable in metric and inch sizes
SPI-M345 can also be used as double face mechanical seals in two sets arrangement

SPI-M345 model is designed for mass production. Each parts structure has a high degree of interchangeability and a highly versatile seal.It can automatic adjustment compensates for abnormal shaft-end play, run-out, primary ring wear and equipment tolerances, due to elastomer diaphragm has excellent stretching and twisting capabilities.
Widely used in centrifugal pumps, rotary pumps, turbines, compressors, coolers and other rotating shaft equipment.

## Recommended Applications

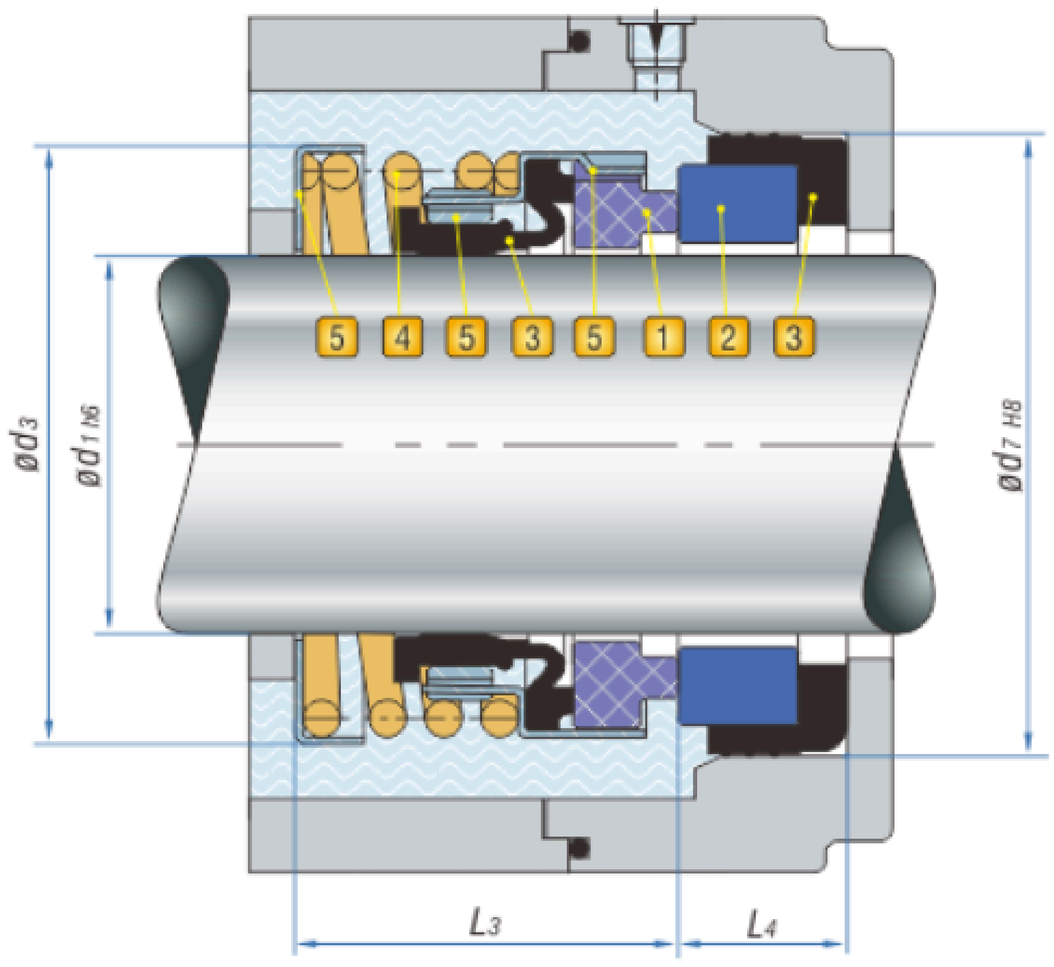
Water and waste water technology
Process pumps
Industrial pumps
Petroleum chemical industry
Other Rotating Equipment

## Operating range

**Shaft diameter:** d1=8...80mm(0.375'' ...3.000'')
**Pressure:** p=0...1.0Mpa（145psi）
**Temperature:** t = -20 °C ...150 °C(-4°F to 302°F)
**Sliding velocity**: Vg≤13m/s（42.6ft/m）

**Notes:** The range of preesure,temperature and sliding velocity is depend on seals combination materials

## Product Structure




## Combination Materials

1. Rotary Face
   - Carbon graphite resin impregnated
   - 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**