

## **RELY ON EXCELLENCE**

# SHI366

Mechanical seals | Mechanical seals for pumps | Engineered seals



## Features

- Robust seal design especially for demanding crude oil applications
- Compact cartridge seal for small seal chambers
- Single unpressurized seal with containment high-pressure throttle design
- Stationary spring loaded unit
- Balanced seal faces in materials with high thermal conductivity and strength
- Inserted seal face
- Multi-point injection of the flush fluid optional
- Seal faces can be equipped with lubrication enhancing hydropads and/or DiamondFace technology

#### Advantages Operational Excellence

- High performance seal design for alternating media properties and operating conditions with high pressures and sliding velocities
- Low amount of heat generation, hence minimal temperature rise in the seal faces
- Seal faces have soft torque transmission
- Seal faces are shrouded in steel colars so that hey cannot break apart in pieces in an emergency case
- Resistant to alignment issues between the pump case and shaft because of stationary springs
- Atmosphere side high pressure double throttle design suitable for full product pressure
- Seal face materials are resitant to solids in the pumped fluid
- Optimized for operation also with sand or particles

## **Technical Excellence**

- Simple installation due to pre-assembled cartridge
- Seal faces are designed with FEA & CFD and qualified & tested in the lab
- Can be fitted in older pumps with small seal chambers or stuffing boxes
- High degree of standardization ensures fast deliveries and smart part inventories

## Sustainability Excellence

- Zero emission seal design for sustainable environmental protection
- Minimized friction and energy consumption

# Operating range

# Materials

Seal face: Silicon impregnated carbon (03), DiamondFace Stationary seat: Silicon carbide (02), DiamondFace Secondary seals: FKM (V), FFKM (K) Springs: Hastelloy® C-4 (M) Metal parts: CrNiMo steel (G), Duplex (G1), Super Duplex (G4), Titan (T2), Hastelloy® C-4 (M)

## **Recommended applications**

- Pipeline systems
- Tank farms / storage tanks
- Oil & gas production

#### **Recommended piping plans**

API Plan 11 API Plan 12 API Plan 13 API Plan 32 API Plan 65A API Plan 65B API Plan 66A API Plan 66B

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we must be notified of the exact conditions of application before we can provide any guarantee for a specific case. This is subject to change.



## **RELY ON EXCELLENCE**

Shaft diameter: d1\* = 50 ... 150 mm (1.97" ... 5.91") Pressure: p1 = 100 bar (1,450 PSI), Static: up to 150 bar (2,175 PSI), Dynamic: up to 100 bar (1,450 PSI) Temperature: t = -20 ... +100 °C (-4 ... 212 °F) Sliding velocity: vg = 50 m/s (164 ft/s) Axial movement: ±1 mm

\* Additional sizes upon request

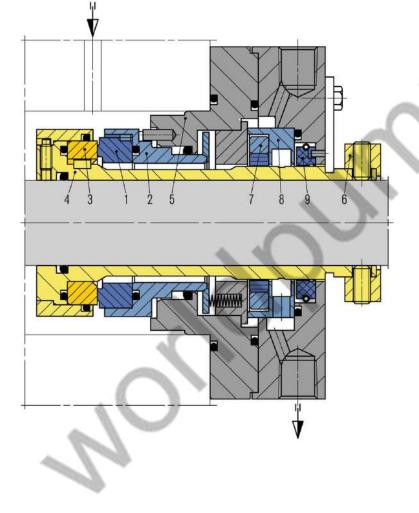


#### **Item Description**

- Seal face 1
- 2 Face housing
- 3 Seat
- 4 Shaft sleeve
- 5 Housing
- 6 Set ring

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- High pressure throttle ring
- 8 Leakage collection
- 9 Throttle ring



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## **RELY ON EXCELLENCE**

Fluid Groups	
Raw products	Non-Flashing Hydrocarbons
Crude oil, Bitumen, Diluent, etc.	Gasoline, Jet Fuel, Diesel Fuel, Kerosene, etc.

Typical fluids in crude oil applications

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