## EagleBurgmann. a member of EKK and SFREUDENBERG

## **RELY ON EXCELLENCE**

# SH(V)

Mechanical seals | Mechanical seals for pumps | Engineered seals



#### Features

- Cartridge design
- Single seal
- Balanced
- Multiple springs
- Stationary spring loaded unit
- Shrink-fitted seal face

#### Advantages

- Deformation-optimized seal for high pressures and high sliding velocities (static up to 500 bar (7,250 PSI) and dynamic up to 150 bar (2,175 PSI))
- Economical due to standardized inner components
- High flexibility due to adaptation of the connection parts to the pump seal chamber
- Insensitive to shaft deflections due to stationary design
- Pre-assembled unit for quick and easy installation
- Suitable for use in compliance with API 682, type ES
- Version with loose-fitted seal face available, for extreme applications
- Only small number of components

#### **Operating range** Shaft diameter:

d1\* = 40 ... 250 mm (1.57" ... 9.84") Pressure: p1 = 150 bar (2,175 PSI) Temperature: t = +200 °C (+394 °F), Sliding velocity: vg = 60 m/s (197 ft/s) Axial movement: ±3 mm

\* Other sizes on request

#### Materials Seal face:

SiC-C-Si silicon impregnated carbon (Q3), Carbon graphite antimony impregnated (A) Seat: Silicon carbide (Q) Secondary seals: FKM (V), EPDM (E), FFKM (K) Springs: Hastelloy® C-4 (M) Metal parts: CrNiMo steel (G), Duplex (G1), Super Duplex (G4), Titanium (T2), Hastelloy® C-4 (M)

#### Standards and approvals

API 682 / ISO 21049

#### **Recommended applications**

- Oil and gas industry
- Refining technology
- Petrochemical industry
- Chemical industry
- Power plant technology
- Pulp and paper industry
- Water and waste water technology
- Hot water
- Sour waterCaustic soda
- Amines
- Crystallizing media
- Crude oil
- Process water
- Crude oil feed pumps
- Injection pumps
- Multiphase pumps

#### **Recommended piping plans**

API Plan 11 API Plan 13 API Plan 31 API Plan 32 API Plan 41 API Plan 61

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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.



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## **Product variants**

**SH(V)I** Same design as SH(V) but with loosely inserted seal face for extreme applications. Pressure: p1 = 200 bar (2,900 PSI)

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