# EagleBurgmann. a member of EKK and SFREUDENBERG

# **RELY ON EXCELLENCE**

# SH

# Mechanical seals | Mechanical seals for pumps | Engineered seals



#### Features

- Single seal
- Balanced
- Cartridge unit
- Stationary multiple springs
- Shrink-fitted seal ring
- Solid mating ring

#### Advantages

- Engineered seal for extended requirements
- Deformation-optimized seal for high pressure and high sliding velocity
- Insensitive to shaft deflections due to stationary design
- Version for extreme applications available

### Operating range

Shaft diameter: d1 = 40 ... 110 (250) mm (1.57" ... 4.33 (9.84)" Pressure: p1 = 42 (150) bar (609 (2,175) PSI) Temperature: t = -40 °C ... +176 (+200) °C (-40 °F ... +350 (+394) °F) Sliding velocity: vg = 23 (60) m/s (76 (197) ft/s) Axial movement:  $\pm 3.0$  mm

#### Materials

Seal ring: Blister resistant carbon, Silicon carbide SSiC (Q1), RBSiC (Q2, Q3) Mating ring: Silicon carbide SSiC (Q1), RBSiC (Q2) Secondary seals: EPDM (E), NBR (P), FKM (V), FFKM (K) Springs: Hastelloy® C-4 (M)\* and C-276 (M5) Metal parts: CrNiMo steel 316 (G) or equivalent, optional materials on request.

\* EagleBurgmann standard

#### Standards and approvals

Following the API 682 / ISO 21049; following the API 682 4th ed. Cat 2/3 – 1CW-FL

#### **Recommended applications**

- Oil and gas industry
- Refining technology
- Chemical industry
- Crude oil feed pumps
- Injection pumps
- Multiphase pumps

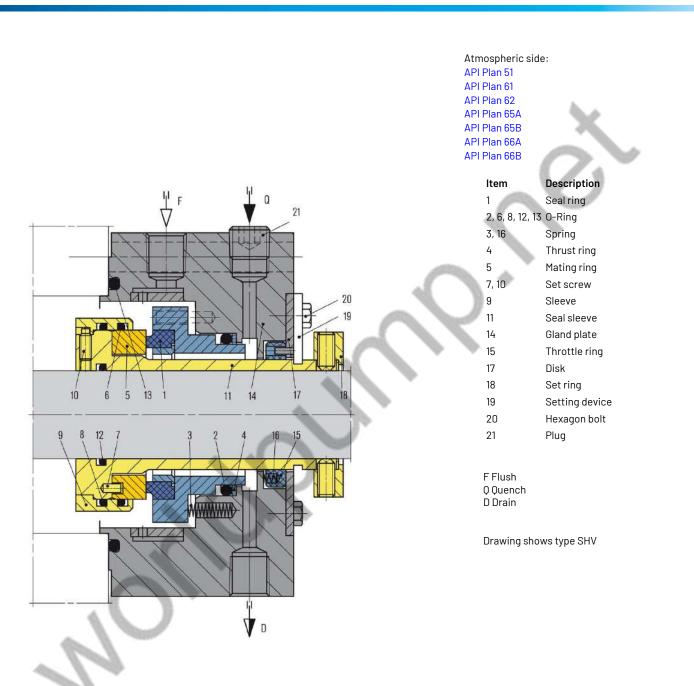
#### **Recommended piping plans**

Process side: API Plan 01 API Plan 02 API Plan 03 API Plan 11 API Plan 12 API Plan 13 API Plan 14 API Plan 21 API Plan 22 API Plan 31 API Plan 32 API Plan 41

## eagleburgmann.com info@eagleburgmann.com

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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**Dimensions** Dimensions on request.

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