

RELY ON EXCELLENCE

CSE

Mechanical seals | Compressor seals | Separation seals



Features

- Non-contacting bushing seal
- Gas-lubricated
- Bi-directional
- Ready-to-fit cartridge unit
- Equipped with Espey carbon rings type WKA400

Advantages

- Low leakage
- Slow roll capability
- Insensitive to dry nitrogen

Operating range

Shaft diameter: 38 ... 390 mm (1,50" ... 15,35") Design pressure: p = ... 10 bar (145 PSI)Operating pressure: p = 0.07 bar (1.02 PSI)Temperature: t = -20 °C ... + 200 °C (-4 °F ... + 392 °F)Sliding velocity: vg = 0 ... 200 m/s (0 ... 656 ft/s)Dew point: No limitation

Project specific special designs possible.

Materials

Seal face: Carbon graphite impregnated Secondary seals: FKM Shaft sleeve: Stainless steel, TC-coated Metal parts: 1.4006 or other stainless steels

Standards and approvals

NACE

Notes

The service-proven non-contacting bushing seal with low gas consumption. Non contact type carbon rings are segmented rings held together by a garter spring at the outer diameter. A defined minimum radial gap provides a contact- free operation. Robust design and reliable operation provide secure oil sealing even at extreme conditions.

Dimensions on request.

Recommended applications

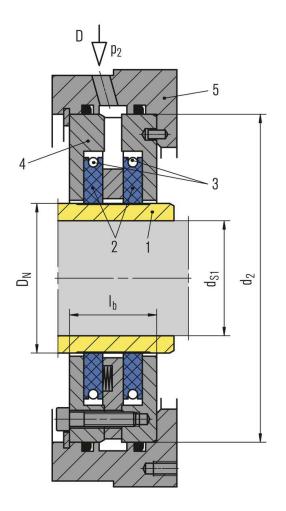
- Oil and gas industry
- Refining technology
- Petrochemical industry
- Nitrogen
- Air
- Centrifugal compressors
- Turbo expanders
- Screw compressors
- Blowers

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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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Item Description

- 1 Shaft sleeve
- 2 Segmented carbon ring
- 3 Garter spring
- 4 Housing of the standardized sub-cartridge
- 5 Housing (size matched to installation space)
- D Separation gas

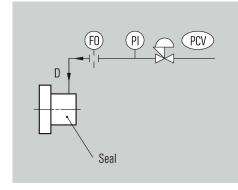
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Installation, details, options



Piping and instrumentation diagram of a CSE (flow controlled separating gas supply).

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