

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

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.

Advantages

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

Operating range

Shaft diameter:
24.5 ... 360 mm (0.96" ... 14.17")
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

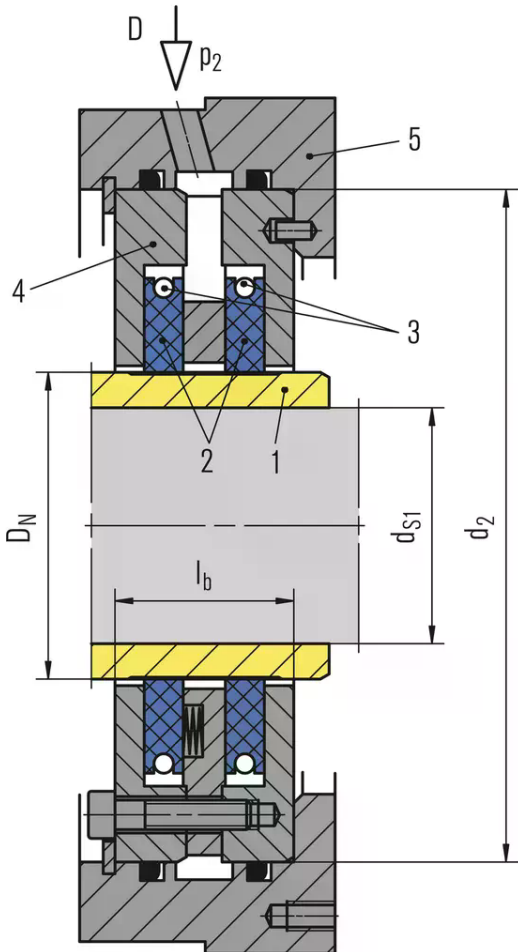
Standards and approvals

- NACE
- API 692

Recommended applications

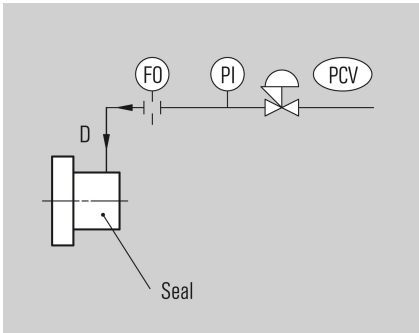
- Nitrogen
- Air
- Oil and gas industry
- Refining technology
- Petrochemical industry
- LNG
- CCUS
- Hydrogen
- Power generation
- Centrifugal compressors
- Turbo expanders
- Screw compressors
- Blowers

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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

Installation, details, options



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