EagleBurgmann
a member of EKK and FREUDENBERG

RELY ON EXCELLENCE

CSE

Mechanical Seals | Compressor seals | Seperation 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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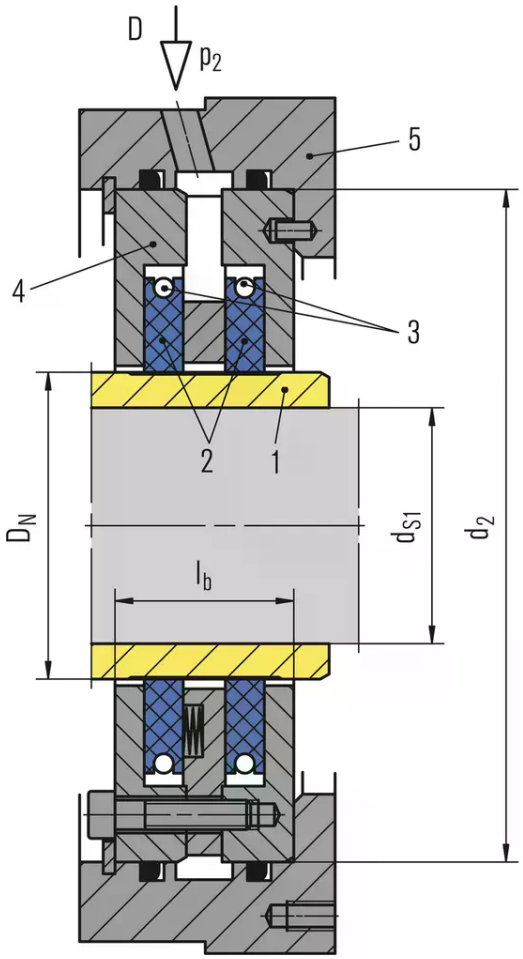
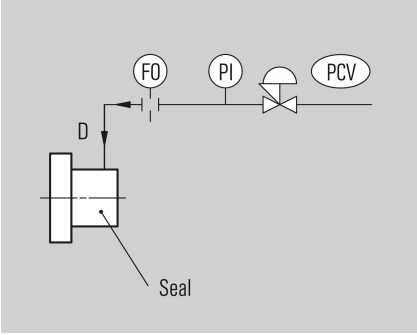
All technical specifications are based on extensive tests and our many years of experience. The diversity of possible applications means, however, that they can serve only as guide values.
We must be notified of the exact conditions of application before we can provide any guarantee for a specific case. Subject to change.



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).

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