EagleBurgmann
a member of EKK and FREUDENBERG

RELY ON EXCELLENCE

CobaSeal

Mechanical Seals | Compressor seals | Seperation seals

Features

- Gas-lubricated
- Bi-directional
- Ready-to-fit cartridge unit
- Self cleaning 3D gas grooves
- Aerostatic and aerodynamic lift-off

Notes

Since it was launched on the market, this innovative sealing solution has proven its worth worldwide in both first fit and retrofit applications. It consists of a rotating seat made of ductile material and a stationary, spring-loaded seal face. The separation gas is routed through axial holes in the stationary seal ring into the middle of the sliding face. It is then divided in the sealing gap into two leakage flows which are routed to the inner and outer diameters of the seal face.

Dimensions on request.

Advantages

- Extremely low leakage
- Double arranged (co-axial) dry gas seal with just one pair of seal faces
- Insensitive to oil contamination due to its special design
- Wear-free, non-contacting operation in all conditions
- Insensitive to radial vibrations due to axial sealing gap
- Slow-roll or turning operation capable (static lift-off)
- No limits regarding dew point of separation gas (silicon carbide instead of carbon)
- Lower N2 consumption than any other system
- N2 can be switched off during standstill - the gap will close and still provide the best oil sealing performance
- Best in class oil sealing by extremely small sealing gap and sling effect of rotating ring

Operating range

Shaft diameter:
27.2 ... 323.2 mm (1.07" ... 12.72")
Design pressure (mechanical integrity):
p = 0 ... 70 bar (0 ... 1000 PSI)
Normal operating pressure:
p = 2.7 bar (39.16 PSI)
Temperature:
t = -20 °C ... +200 °C (-4 °F ... +392 °F)
Sliding velocity:
vg = 0 ... 150 m/s (0 ... 492 ft/s)
Dew point: No limitation

Materials

Seal face: Silicon carbide*
Seat: Ductile stainless steel*
Shaft sleeve: Stainless steel TC-coated
Secondary seals: FKM
Metal parts: 1.4006

* With special EagleBurgmann high performance iDLC (in situ Diamond-Like-Carbon) coating

Standards and approvals

- NACE
- API 692

Recommended applications

- Nitrogen
- Air
- Oil and gas industry
- Refining technology
- Petrochemical industry
- LNG
- CCUS
- Hydrogen
- Alternative fuels production
- Power generation
- Centrifugal compressors
- Blowers

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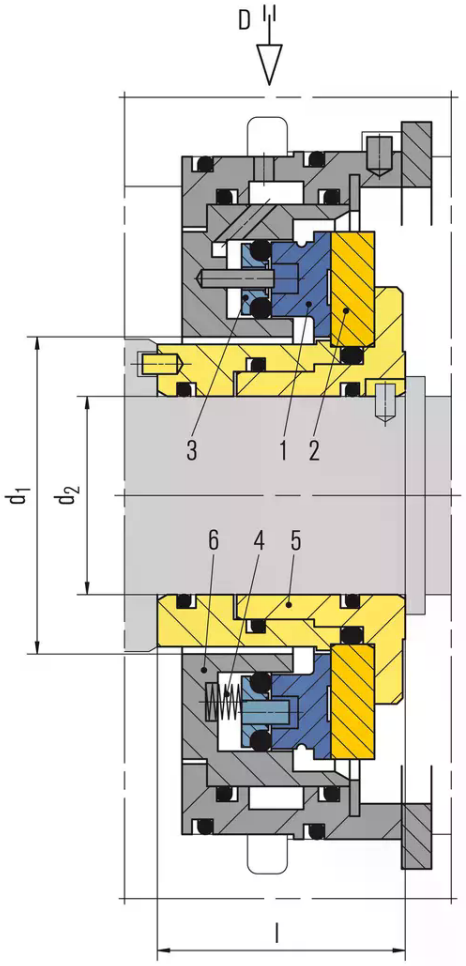
All technical specifications are based on extensive tests and our many years of experience. The diversity of possible applications means, however, that they can serve only as guide values.
We must be notified of the exact conditions of application before we can provide any guarantee for a specific case.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



Item	Description
1	Seal face, stationary
2	Seat, rotating
3	Thrust ring
4	Spring
5	Shaft sleeve and seat retainer
6	Housing (size matched to installation space)
D	Separation gas

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