



a member of **EKK** and **FREUDENBERG**

RELY ON EXCELLENCE

MR-D

Mechanical seals | Agitator seals | Liquid-lubricated seals



Features

- For top, side and bottom entry drives
- Seat at product side rotating
- Unbalanced
- Liquid-lubricated
- Double seal
- Independent of direction of rotation
- Cartridge unit
- With or without bearing available

Advantages

- Smooth surface, free of dead spaces
- CIP-/SIP (Cleaning in Place, Sterilization in Place) capable
- Sliding materials FDA conform
- Variant for sterile applications available
- ATEX certification on request

Operating range

Shaft diameter: d1 = 35 ... 140 (500) mm (1.38" ... 5.51" (19.68")) Axial offset shaft/housing: d1 = 35 ... 60 mm (1.38" ... 2.36"): max. ±1.5 mm (0.059") d1 >60 mm (2.36"): max. ±2.0 mm (0.079") Radial offset shaft/housing: max. ±0.3 mm (0.012") Pressure:

p1 = vacuum ... 14 (23) bar (203 (334) PSI) p3 = max. 16 (25) bar (232 (363) PSI) Δ p3-p1 = 2 ...10 bar (29 ...145 PSI),

higher Δp on request

Temperature: t1 = -20 °C ... +200 (300) °C

(-4°F ... +392 (572)°F) Sliding velocity:

vg = max. 10(20) m/s(33(66) ft/s)

For applications beyond this range and for values in brackets, please inquire.

! It should be noted that the extremal values of each operating parameter cannot be applied at the same time because of their interaction.

Materials

Seal faces: Silicon carbide, FDA conform Seat: Carbon graphite (atmosphere side) resp. Silicon carbide (product side), FDA conform

Secondary seals and metallic parts acc. to application and customers' requirement.

Standards and approvals

FDA

Notes

Options:

- Cooling resp. heating flange
- Temperature sensor
- Axial expansion joint (shaft movement)
- Wiper ring (shaft movement)
- Shaft sleeve not in contact with product (with standard diameters)
- Metal-free on product side

Please inquire.

Recommended applications

- Petrochemical industry
- Chemical industry
- Pharmaceutical industry
- Food and beverage industry
- Mixers
- Dryers
- Mills
- Kneaders
- Reactors
- Pressure filters

Recommended piping plans

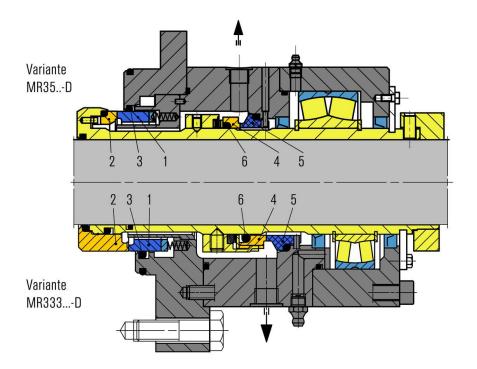
Closed circuit: EagleBurgmann TS system, EagleBurgmann DRU pressure booster, Open circuit: EagleBurgmann SPA / SPN

Product links:

EagleBurgmann TS1000 EagleBurgmann TS2000 EagleBurgmann TS3016 (sterile version)







EagleBurgmann DRU EagleBurgmann SPA EagleBurgmann SPN manual EagleBurgmann SPN automatic

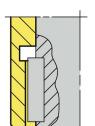
Item Description

- Seal face, product side
- 2 Seat, product side
- 3, 6 O-Ring, dynamic
- 4 Seal face, atmosphere side
- 5 Seat, atmosphere side



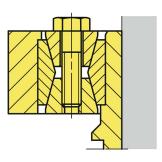


Torque transmissions

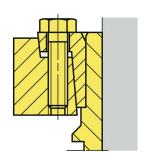


Drive key

Clamping set

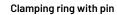


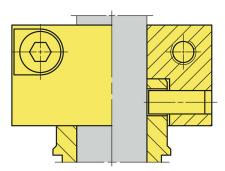
Shrink disc



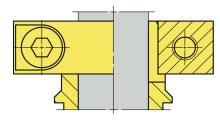








Clamping ring

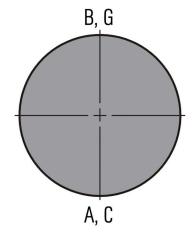


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Installation, details, options



Supply connections

- A Barrier fluid IN
- B Barrier fluid OUT
- C Drainage
- G Grease

Dimensions

Dimensions on request.