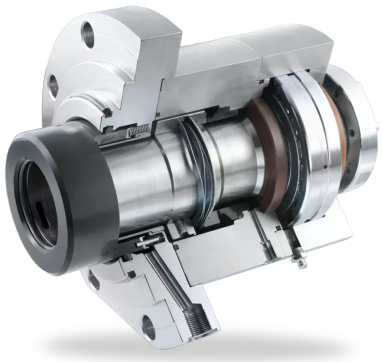
EagleBurgmann
a member of EKK and FREUDENBERG

RELY ON EXCELLENCE

HSMR34

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
- Shaft sleeve not in contact with product (with standard diameters)

Notes

Options:

- Cooling resp. heating flange
- Temperature sensor
- Metal-free on product side

Please inquire.

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

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 TSA2
EagleBurgmann TS3016 (sterile version)
EagleBurgmann DRU
EagleBurgmann SPA
EagleBurgmann SPN manual
EagleBurgmann SPN automatic

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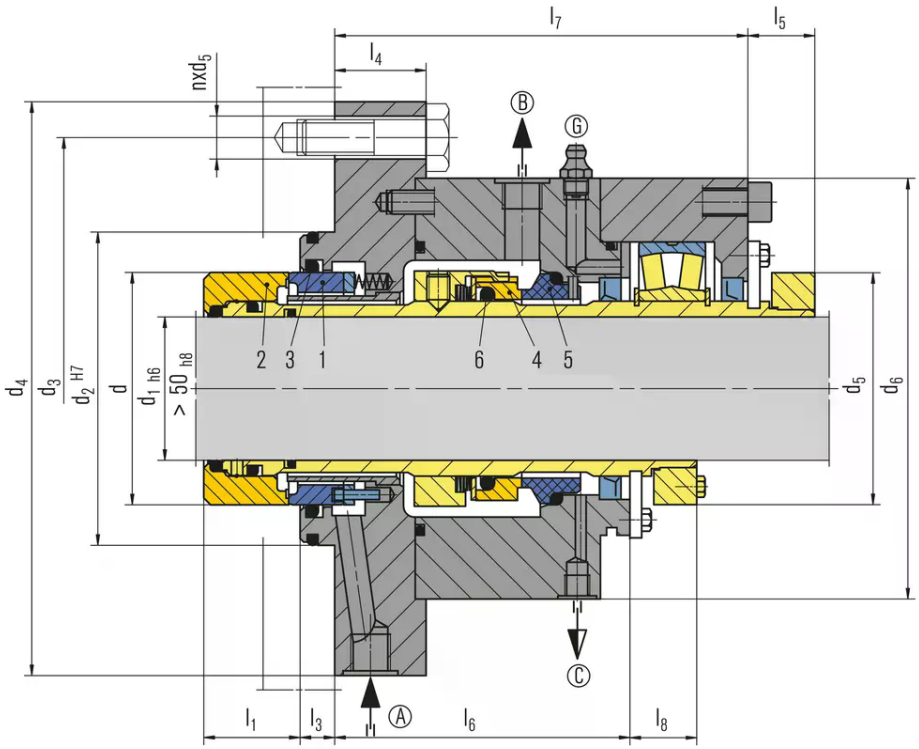
All technical specifications are based on extensive tests and our many years of experience. The diversity of possible applications means, however, that they can serve only as guide values.
We must be notified of the exact conditions of application before we can provide any guarantee for a specific case.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



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

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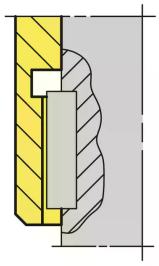
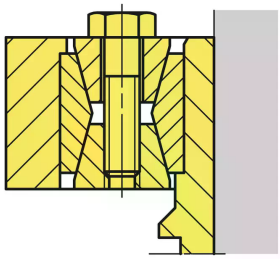
Torque transmissions

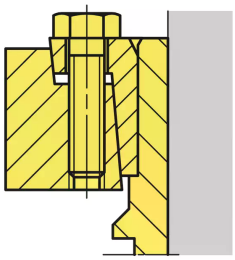
Drive key



Clamping set



Shrink disc



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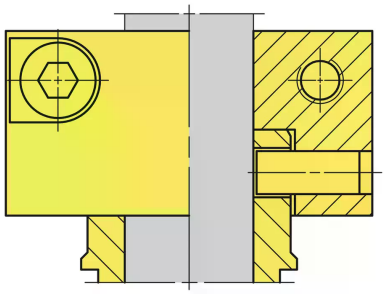
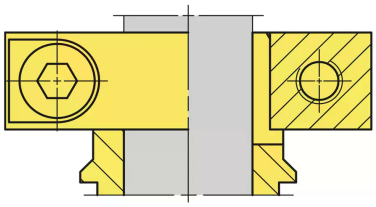
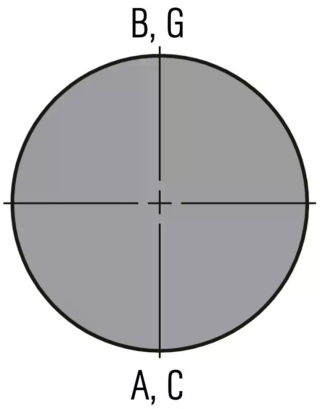
Clamping ring with pin



Clamping ring



Installation, details, options



Supply connections
A Barrier fluid IN
B Barrier fluid OUT
C Drainage
G Grease

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Dimensions

d_1	d	l_1	d_2	l_3	d_3	n x d_5	d_4	l_4	d_5	d_6	l_5	l_6	l_7	l_8
35	68.0	41	105.0	15	148	8 x 13.5	170	35.5	69	118.5	20.5	97.0	141.0	30.5
45	82.7	41	119.5	15	166	8 x 13.5	190	43.0	86	138.0	26.0	103.0	149.5	34.5
50	90.0	41	119.5	15	190	8 x 17.5	220	40.5	90	158.0	28.,5	110.0	165.0	28.5
60	100.0	42	134.5	15	200	8 x 17.5	230	41.0	100	168.0	28.0	118.0	173.0	28.0
80	130.0	46	160.5	15	248	8 x 17.5	280	48.0	130	208.0	34.0	133.0	212.0	34.0
100	150.0	46	181.5	15	264	8 x 22.0	300	54.0	150	223.0	33.5	145.0	219.0	33.5
120	172.0	46	209.5	15	293	8 x 22.0	330	52.0	174	253.0	40.0	148.0	232.0	40.0
140	195.0	46	224.5	15	338	12 x 22.0	375	52.0	194	288.0	39.5	160.5	251.5	39.5

Dimensions in millimeter

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