



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

RELY ON EXCELLENCE

HS-D

Mechanical seals | Agitator seals | Liquid-lubricated seals



Features

- For top entry drives
- Double seal
- Unbalanced
- Independent of direction of rotation
- Multiple springs rotating
- Liquid-lubricated
- Cartridge unit

Advantages

- Ready-to-fit and factory-tested unit
- With or without bearing available
- Patented hydrodynamic grooves
- Designed for medium pressure range
- Connection dimensions to customers' requirements
- Self-closing on product side
- ATEX certification on request

Operating range

Shaft diameter:

 $d1 = 20 \dots 500 \text{ mm} (0.79" \dots 19.69")$

Pressure: p1 = vacuum ... 30 bar (... 435 PSI)

Temperature:

t1 = -40 °C ... +200 (350*) °C

(-40 °F ... +392 (662*)) °F

Sliding velocity:

vg = 0 ... 5 m/s (0 ... 16 ft/s)

* with cooling flange

For applications beyond this range, 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: Carbon graphite or Silicon

carbide, FDA conform

Seats: Silicon carbide, FDA conform Secondary seals and metallic parts acc. to application and customers' requirement.

Standards and approvals

FDA

Notes

Options:

- Cooling resp. heating flange
- Leakage drain
- Flush
- Polymerization barrier

Recommended applications

- Refining technology
- Petrochemical industry
- Chemical industry
- Pharmaceutical industry
- Reactors
- Agitators
- Special rotating equipment

Recommended piping plans

Open circuit

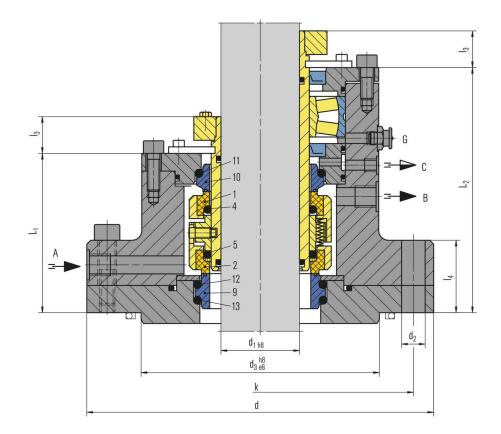
e.g. EagleBurgmann SPA, EagleBurgmann SPN

Product links:

EagleBurgmann SPA
EagleBurgmann SPN manual
EagleBurgmann SPN automatic





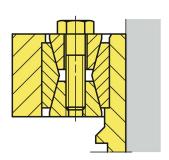


Item no.	Description
1	Seal face, atmosphere side
2	Seal face, product side
4, 5, 11, 12, 13	0-Ring
9	Seat, product side
10	Seat, atmosphere side





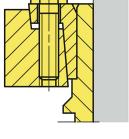
Torque transmissions



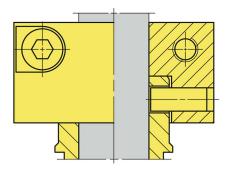
Clamping set



Shrink disk



Clamping ring with pin

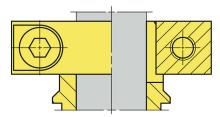


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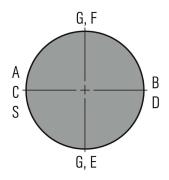
Clamping ring





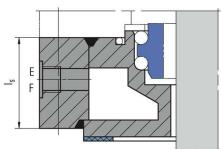


Installation, details, options



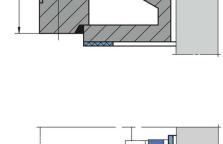
Supply connections

- A Barrier fluid IN
- B Barrier fluid OUT
- C Drainage
- D Leakage drain
- E Cooling IN
- F Cooling OUT
- G Grease
- S Flush



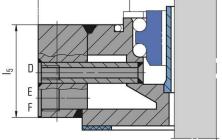
Cooling flange

Can be used alternatively as a heating flange.



Leakage drain with cooling flange

Can be used alternatively as a flush or as a heating

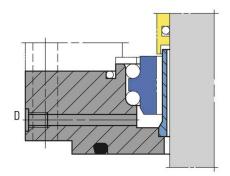


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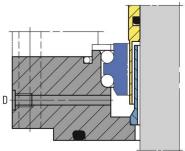






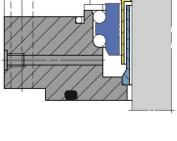
Leakage drain

Can be used alternatively as a flush.

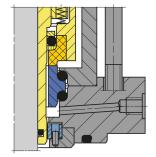


Polymerization barrier

Can be used alternatively as a leakage drain or a flush.



Flush







Product variants

HS ... -D

Double seal

HS .. L-D

Double seal with integrated floating bearing.

HS ..(L)U-D

Double seal for bottom and side entry drives with or without floating bearing.

These seals are designed to be self-closing on the product side, i.e. they will remain closed even with pressure variations or a pressure reversal.

Dimensions

d ₁	d	n x d ₂	d ₃	[k	l ₁	l ₂	l ₃	14
40	200	6 x 18	80	170	115	170	35	45
50	230	8 x 18	100	200	120	185	35	55
60	255	8 x 18	120	225	140	210	35	60
80	295	8 x 23	145	260	145	230	44	60
100	315	8 x 23	170	280	160	245	44	65
120	345	8 x 23	190	310	160	250	50	65
140	380	12 x 23	215	345	165	265	50	65
160	440	12 x 27	240	395	185	300	50	75
180	475	12 x 27	260	430	185	310	55	75
200	465	12 x 27	290	420	190	290	55	75

Dimensions in millimeter