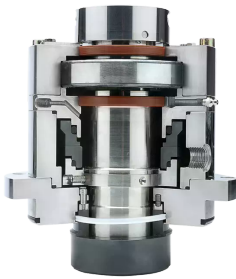


RELY ON EXCELLENCE

## AGSR

Mechanical Seals | Agitator seals | Gas-lubricated seals



### Features

- For top and side entry drives
- Double seal
- Balanced
- Stationary springs on product side
- Independent of direction of rotation
- Gas-lubricated
- Cartridge unit

### Notes

Options:

- Flush

### Advantages

- Ready-to-fit and factory-tested unit
- Rotating seat at product side
- Torque transmission by clamping ring for large axial movements
- Non-contacting operation
- No friction on the seal faces, no heat generated at the seal or in the medium
- Sterile design available
- ATEX certification on request

### Operating range

Shaft diameter:

$d_1 = 20 \dots 200 \text{ mm (0.8" ... 7.9")}$

Pressure:

$p_1 = \text{Vakuum} \dots 6 \text{ bar (87 PSI)}$ ,

$\Delta p = \text{min. } 3 \text{ bar (44 PSI)}$ ,

$p_3 = \text{max. } 9 \text{ bar (131 PSI)}$

Temperature:

$t_1 = -20 \text{ }^\circ\text{C} \dots +200 \text{ }^\circ\text{C}$

$(-4 \text{ }^\circ\text{F} \dots +392 \text{ }^\circ\text{F})$

Sliding velocity:  $v_g = 0 \dots 5 \text{ m/s (0 ... 16 ft/s)}^*$

\* Higher velocities on request

! 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 and seats: Silicon carbide, FDA conform

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

### Standards and approvals

- FDA
- ATEX
- Compliant to TA Luft (German Clean Air Act)

### Recommended applications

- Chemical industry
- Food and beverage industry
- Pharmaceutical industry
- Mixers
- Dryers
- Special rotating equipment

### Recommended piping plans

Gas supply by EagleBurgmann

GSS4015/A400-D0,

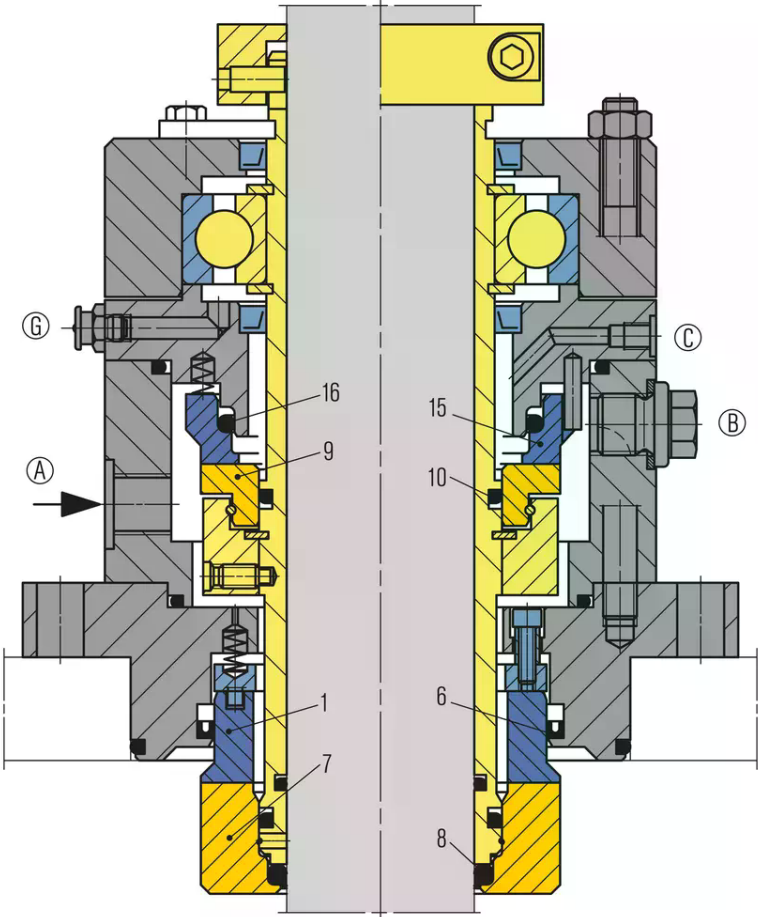
GSS4016/A250-D1 or GSS4016/A350-D1.

Note: To assure a sufficient supply of the mechanical seal, pressure at entry of the supply system must be min. 3 bar (44 PSI) above max. barrier pressure always.

Product link:

[EagleBurgmann GSS](#)

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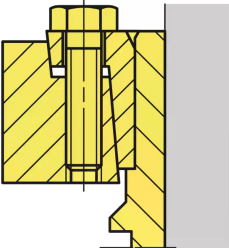


Item	Description
1, 15	Seal face
6	Sealing ring
7, 9	Seat
8, 10, 16	O-Ring

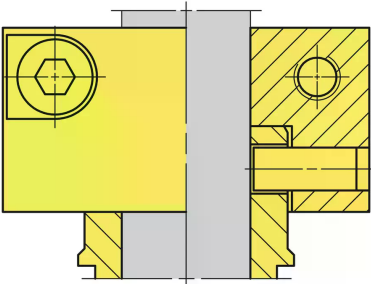
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## Torque transmissions

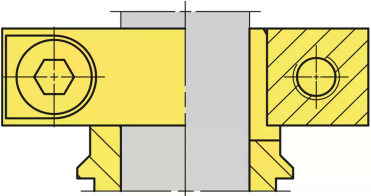
Shrink disk



Clamping ring with pin

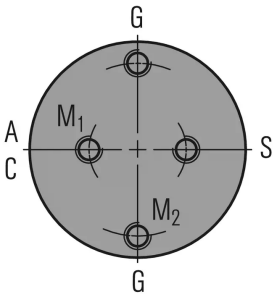


Clamping ring



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## Installation, details, options

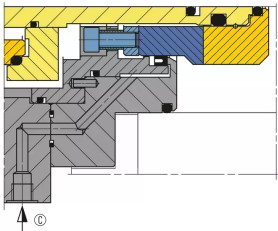


### Supply connections

- A Barrier gas IN
- C Leakage
- G Grease
- S Flush

### Option

Flushing the AGSR: Especially when the seal is operated in side or bottom entry drives, an optional flush on the product side enhances operational reliability.

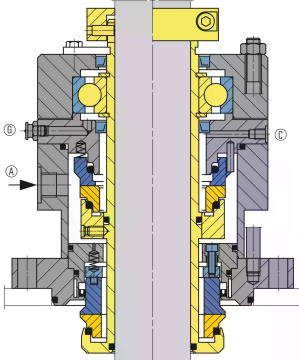


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## Product variants



**AGSR5(L)-D**  
Double seal (with floating bearing for the shaft). If the seal has to run in the product, please inquire.



**AGSR5(L)-D**  
Double seal (with floating bearing for the shaft).