

RELY ON EXCELLENCE

AGSR

Mechanical seals | Agitator seals | Gas-lubricated seals



Features

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

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:

$t_1 = 0 \text{ } ^\circ\text{C} \dots +200 \text{ } ^\circ\text{C}$

$(+32 \text{ } ^\circ\text{F} \dots +392 \text{ } ^\circ\text{F})$

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

* Higher velocities on request

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

Notes

Options:

- Flush

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,

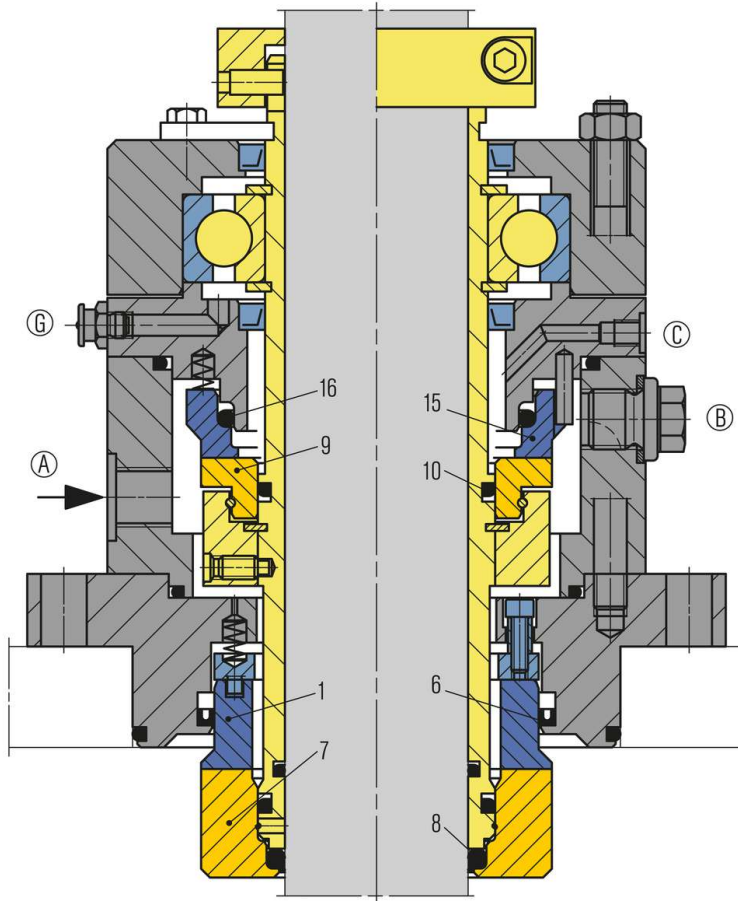
GSS4016/A250-D1 or GSS4016/A350-D1.

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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AGSR3(L)-D

Double seal (with floating bearing for the shaft) for sterile applications. The specific design free of dead spaces with polished surfaces on the product side meets the requirements for hygienic applications.

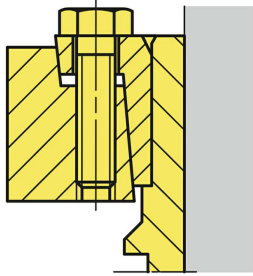
Item Description

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

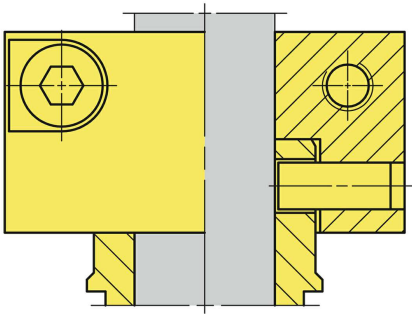
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Torque transmissions

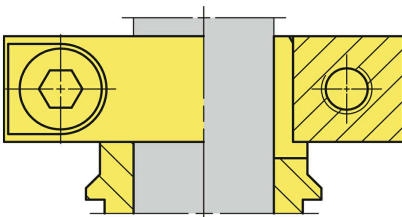
Shrink disk



Clamping ring with pin

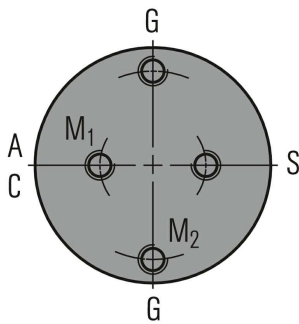


Clamping ring



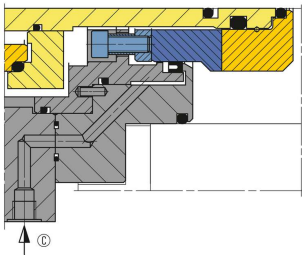
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Installation, details, options



Supply connections

A Barrier gas IN
C Leakage
G Grease
S Flush

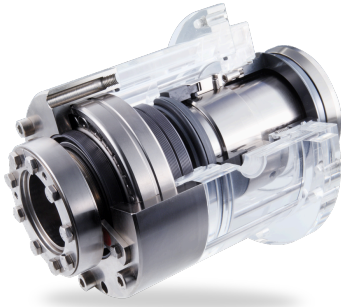


Option

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.

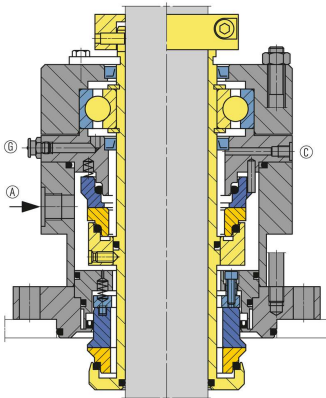
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Product variants



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).