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Seal Management System - SMS

Seal Supply Systems | Gas supply systems



Features

The EagleBurgmann SMS is a customizable system based on four modules. It is used to continuously supply and monitor gas-lubricated mechanical seals.

Functional description

Flushing gas module

Primary seal gas line or buffer gas line:

- Supplying with filtered and dry flushing gas
- Monitoring and regulating the flow rate and/or the (differential) pressure
- Monitoring the gas filter
- For dual seals, process gas is generally injected in front of the seal as a gas buffer. The actual seal is supplied with nitrogen.

Barrier gas module

Secondary seal gas line:

- Supplying with filtered barrier gas (N₂)
- Monitoring and regulating the flow rate and/or the (differential) pressure
- Monitoring the gas filter

Leakage module

(Primary) vent line:

Advantages

- Reliable operation by supplying the seal with filtered and dry buffer gas, seal gas and separation gas.
- Condition of the filters, control valves, instrumentation and nitrogen and process gas sources are checked at all times.
- Constant monitoring for leakage and seal function.
- Individually adaptable to suit operating conditions and safety requirements.
- All current industrial standards, such as API and special operator requirements, can be fulfilled.
- Seal Management System (SMS) available with additional gas conditioning skid.

Standards and approvals

- Compliant to TA Luft (German Clean Air Act)

Recommended applications

- Oil and gas industry
- Refining technology
- Petrochemical industry
- Chemical industry

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- Monitoring of the leakage from the seal and outputting an alarm when the leakage is out of expected range
- Ensuring the leakage is directed to a flare or flare system

Separation gas

Separation gas line:

- Supplying and monitoring the oil barrier seal with nitrogen or air
- Monitoring and regulating the flow rate and/or the (differential) pressure

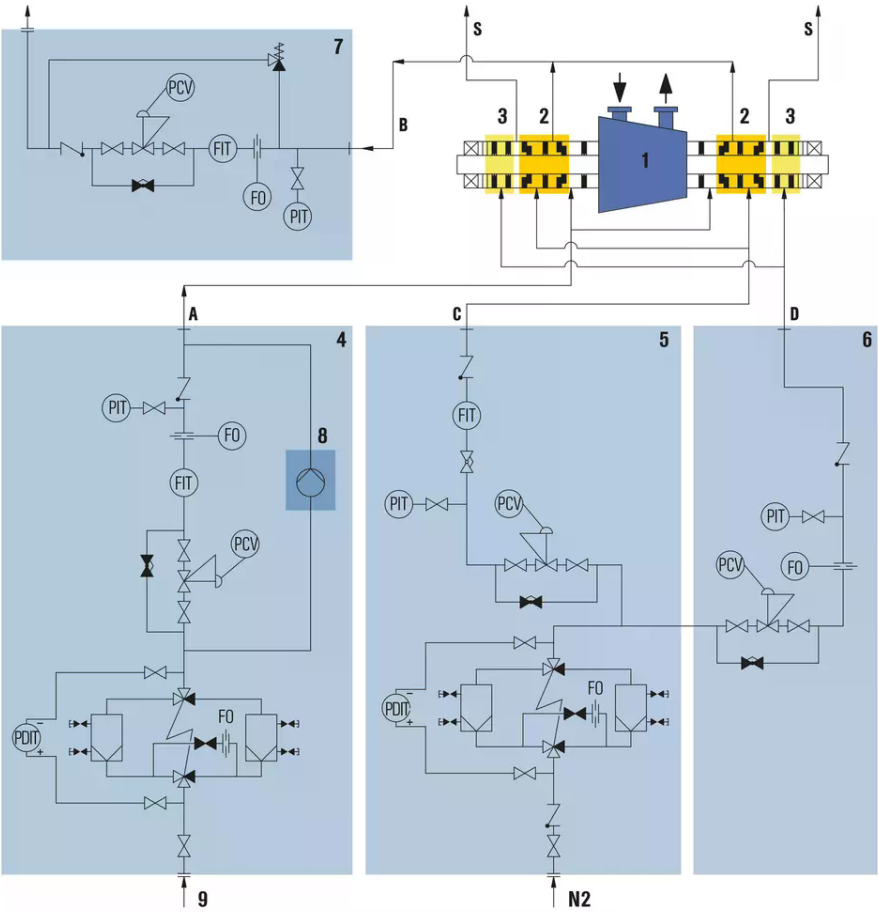
Notes

EagleBurgmann SMS are also available as complete conditioning skids with individually-adapted components, e.g.:

- Booster
- Cooler
- Heater
- Separator
- Coalescence filter
- Demister

Other equipment and information available upon request.

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Example of a SMS gas supply system to supply a compressor with 2 tandem seals with intermedia labyrinth.

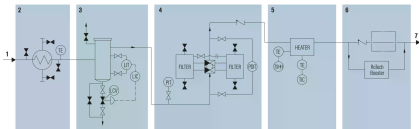
Item	Description
1	Compressor
2	Main seal
3	Separation seal
4	Flushing gas module
5	Barrier gas module
6	Separating gas module
7	Leakage module
8	RoTechBooster module
9	Gas conditioning system IN
A	Primary seal gas supply
B	Primary vent
C	Secondary seal gas supply
S	Secondary vent
D	Separation gas supply

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Product variants



SMS gas conditioning skid with EagleBurgmann
RoTechBooster



Gas conditioning system (skid)

- 1 Gas IN
- 2 Cooler
- 3 Separator
- 4 Filter unit
- 5 Heater
- 6 RoTechBooster
- 7 Gas OUT - to flushing gas module