

COM1, COM1Q and COM2
ready-fitted mechanical seals

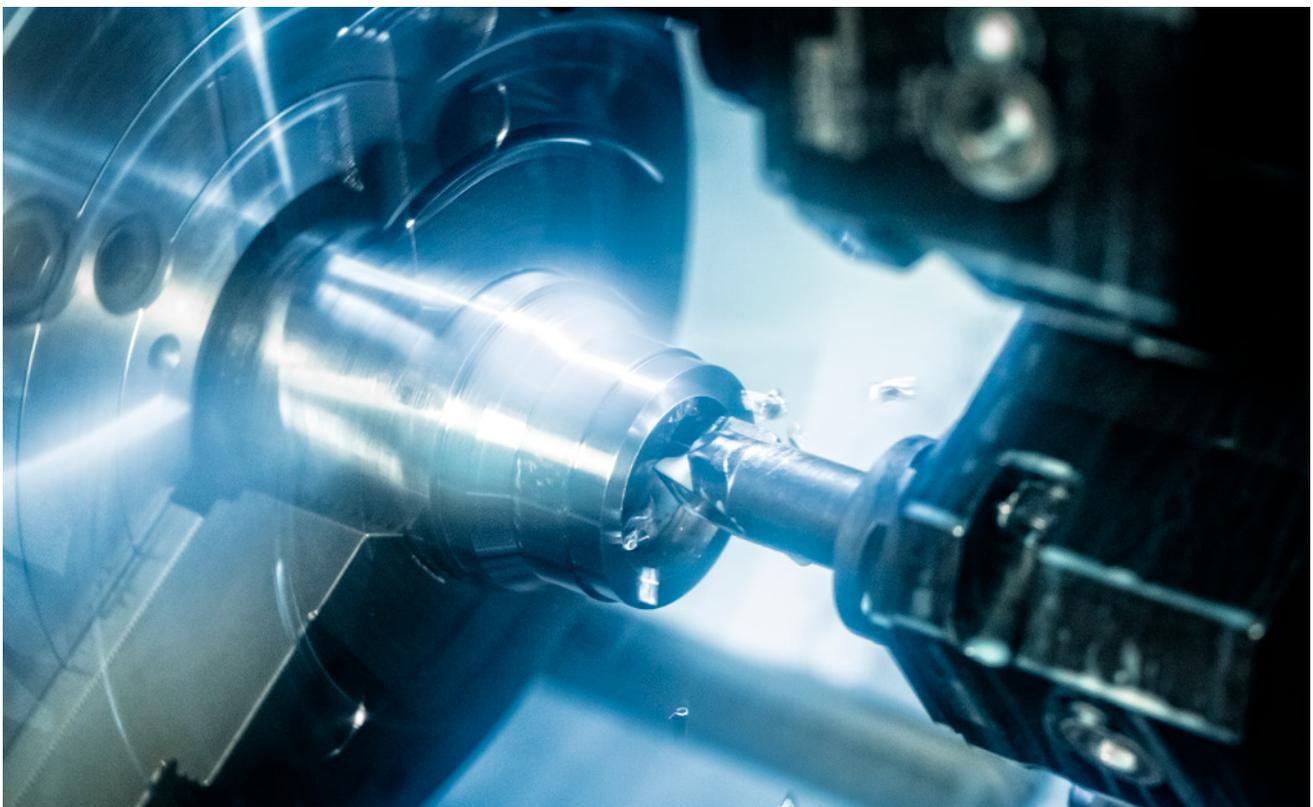


Simple and robust design maximizes reliable operation

- 1 COM1, COM1Q and COM2 cartridge mechanical seals are designed for the seal chamber of the standard gland packing casing cover and for the standard shaft of different pump types like Ahlström KEST, Serlachius DE and Mako KPM.
- 2 The cartridge seal forms one solid unit having its own sleeve, fixing flange, seal faces, springs and all necessary O-rings, gaskets and fixing crews.
- 3 The seal is fixed into the casing cover by studs and nuts utilizing fixing slots (4x90°) on the seal flange. The shaft sleeve with the rotating sliding rings is fixed on the shaft by the impeller.

Technical specifications and material alternatives

	COM1	COM1Q	COM2
P_{max}	16 bar / 232 psi	16 bar / 232 psi	16 bar / 232 psi
V_{max}	25 m/s / 82 ft./s	25 m/s / 82 ft./s	25 m/s / 82 ft./s
T_{max}	125°C / 257°F	140°C / 284°F	180°C / 355°F
Seal faces	SiC/SiC, C/SiC	SiC/SiC-SiC/SiC SiC/SiC-C/SiC	SiC/SiC-SiC/SiC SiC/SiC-C/SiC
O-rings	EPDM, FKM	EPDM, FKM	EPDM, FKM
Other parts	AISI 316, AISI 329	AISI 316, AISI 329	AISI 316, AISI 329



COM1 ready-fitted cartridge single seal

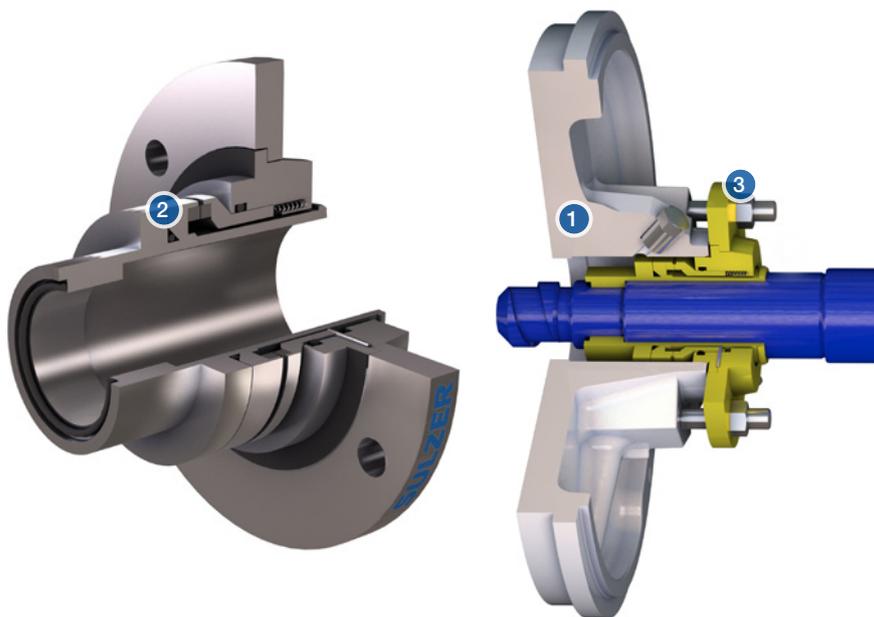
The seal faces are lubricated by the pumped liquid pumped through the impeller balancing holes into the seal chamber

- Positive inlet pressure is required
- Impeller balancing holes are required

Liquids:

- Clean and slightly contaminated liquids
- Viscous liquids
- Fibrous slurries up to 2 - 4 % depending on quality

Temperature up to 125°C / 257°F



COM1Q ready-fitted single seal with quench

The seal faces are lubricated by non-pressurized (quench) external clean sealing liquid led through a pipe/hose from an external source into the seal between the seal face and v-ring

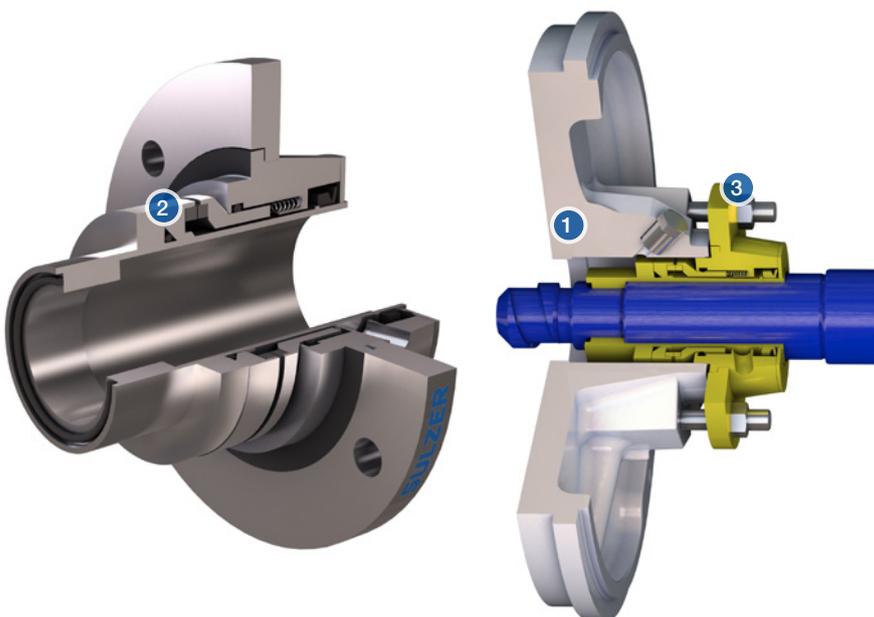
- Positive or negative inlet pressure
- Impeller balancing holes are not required, but can be

Temperature of the out-flowing sealing liquid may not exceed 60°C / 140°F

Liquids:

- Clean and slightly contaminated liquids
- Viscous liquids up to 4'000 cSt
- Fibrous slurries up to 8%
- Liquids containing large solids

Temperature up to 140°C / 284°F



COM2 ready-fitted cartridge double mechanical seal

The seal faces are lubricated by non-pressurized (buffer) or pressurized (barrier) external clean sealing liquid led through a pipe/hose from an external source into the seal between the seal face pairs

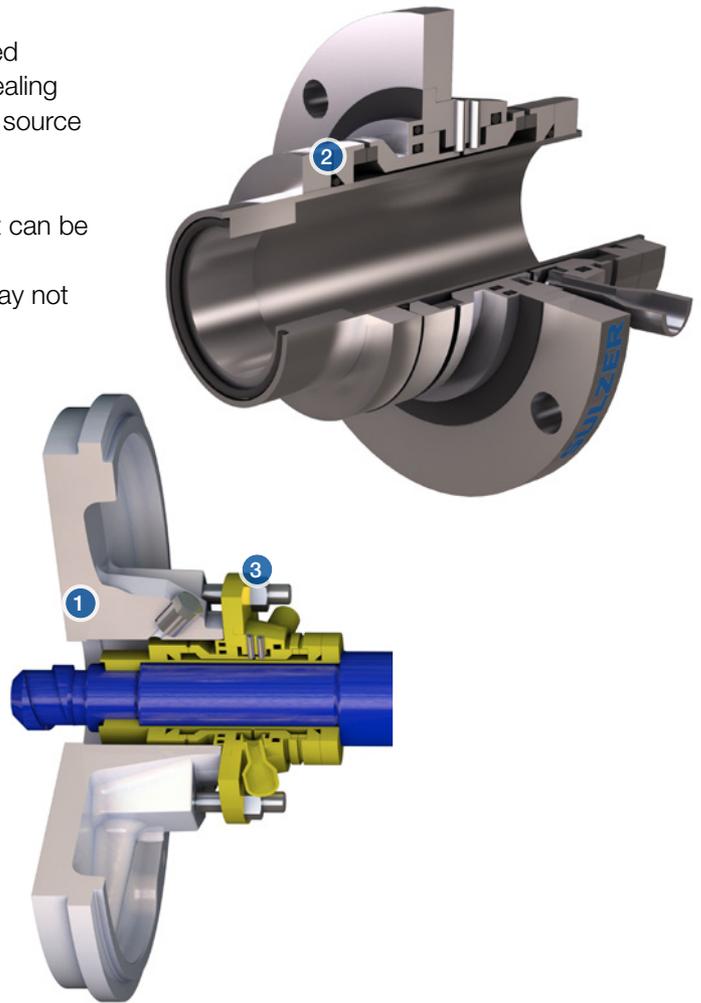
- Positive or negative inlet pressure
- Impeller balancing holes are not required, but can be

Temperature of the out-flowing sealing liquid may not exceed 60°C / 140°F

Liquids:

- Clean and slightly contaminated liquids
- Viscous liquids up to 4'000 cSt
- Fibrous slurries up to 8%
- Liquids containing large solids

Temperature up to 180°C / 355°F



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We continuously strive to be faster and better.



Customer partnership

Together, we win.



Committed people

We build on the strengths and diversity of our people.

A global specialist at your doorstep

Sulzer serves clients worldwide through a network of over 180 production and service sites and has a strong footprint in emerging markets.





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