Dynamic Seals:

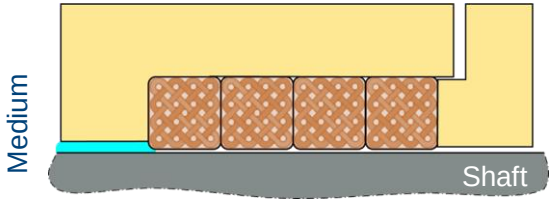
TTV Mechanical Seals

For applications with low speeds and the risk of dry running or insufficient lubrication.

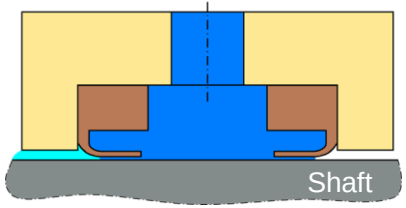
An overview

Mechanical sealing in comparison

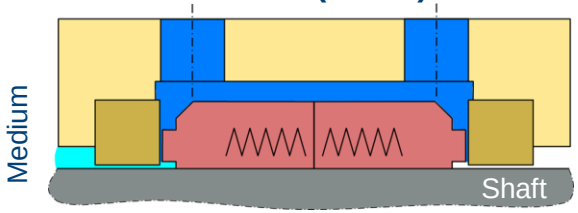
Stuffing box packing



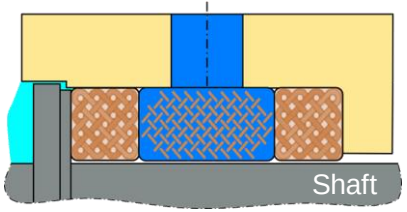
Shaft lip seal



Mechanical seal (GLRD)



Mechanical seal (WA)



Basis for success

Innovative Concept

The ttv mechanical seal is a flexible packing system with an innovative technology.

There are no sealing surfaces or springs and nothing in the cartridge is fragile. The seals use a flexible sealing compound as the sealing medium, which remains compressed in the system. The sealant is held at a pressure slightly above the pressure to be sealed by a gas-operated piston.

The sealing material acts as an adaptable stationary seal and thus compensates for shaft movements without affecting the sealing quality.

sticky media

powder

Wichtige Einsatzgebiete und Modelle

Important areas of application

Applications

- Screw conveyors
- Vacuum dryers
- Ball mills
- Screw pumps
- Rotary valves
- Rotary valves
- Agitators
- Mixers

Customisable models

Versions

- Split seals
- Cartridge versions with integrated bearing
- Versions to compensate for increased radial misalignment
- Seals with upstream cooling flange
- Versions in accordance with Atex

You make the difference

Properties

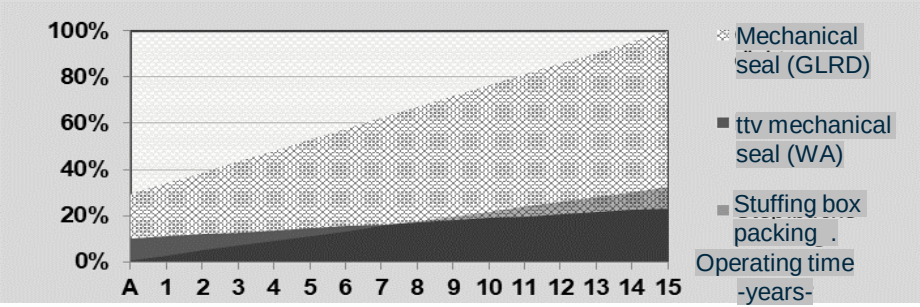
	Pack	Mechanical seal with supply system	The convenient ttv mechanical seal
Technical thight[1)]	✗	✓	✓
No sensitive components	✓	✗	✓
Low maintenance effort	✗	✗	✓

[1)] Seals are considered ‘technically tight’ if a barrier medium is introduced between the medium to be sealed and the atmosphere (double seal with barrier medium).

Strong facts in comparison

Life cycle costing

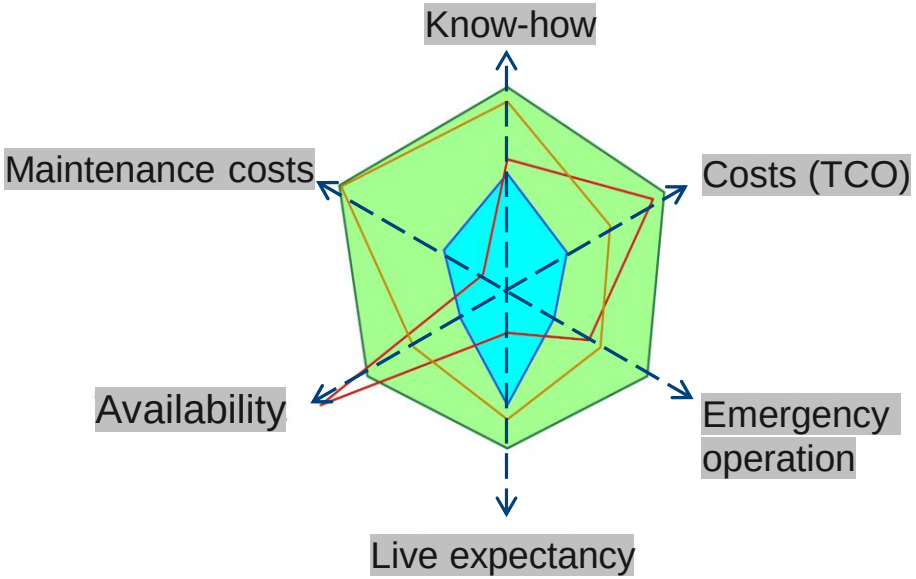
Stuffing box packings are simple and inexpensive seals. However, they are not technically tight and require a great deal of maintenance. A very good sealing function is achieved with a locked mechanical seal. This in turn requires a supply system that needs to be maintained regularly. In this field of tension, ttv offers a high-quality shaft seal with minimal maintenance requirements and moderate costs.



A = purchase. The illustration is based on a cost estimate for the sealing of a shaft Ø 80 mm. A double seal with a supply system is assumed for the mechanical seal.

All advantages summarised

Outstanding performance



- Mechanical seal with barrier system
- Shaft lip seal system with sealing gas
- Stuffing box packing
- ttv Mechanical seal (flexible packing system)

TCO = Total Cost of Ownership
Larger surface area = better performance

Your advantages

- Easy installation thanks to pre-assembled units
- Long maintenance intervals
- Robust design with high fault tolerance during installation and operation
- Permanently technically tight
- High sealing function ensures a clean system environment
- Maintenance cost savings
- Low contamination due to the sealing compound

Contact

‘Efficient sealing solutions - practical, innovative, sustainable.’

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