

Double mechanical shaft seals

Double mechanical shaft seals are used when the life span of single mechanical shaft seals is insufficient due to wear caused by solids or too high/low pressure and temperature. Further, double mechanical shaft seals are used in connection with toxic, aggressive and explosive liquids to protect the surroundings. Two types of double mechanical shaft seals exist: The double seal in a tandem arrangement and the double seal in a back-to-back arrangement.

Double seal in tandem

This type of double seal consists of two mechanical shaft seals mounted in tandem, that is one behind the other, placed in a separate seal chamber, see figure 1.3.14.

The seal type is used when a pressurised double mechanical shaft seal mounted in a back-to-back arrangement is not necessary.

The tandem seal arrangement has to be fitted with a quenching liquid system which

- absorbs leakage
- monitors the leakage rate
- lubricates and cools the outboard seal to prevent icing
- protects against dry-running
- stabilises the lubricating film
- prevents air from entering the pump in case of vacuum

The pressure of the quenching liquid must always be lower than the pumped liquid pressure.

Tandem - circulation

Circulation of quenching liquid via a pressureless tank, see figure 1.3.14. Quenching liquid from the elevated tank is circulated by thermosiphon action and/or by pumping action in the seal.

Tandem - dead end

Quenching liquid from an elevated tank, see figure 1.3.15. No heat is dissipated from the system.

Tandem - drain

The quenching liquid runs directly through the seal chamber to be collected for reuse, or directed to drain, see figure 1.3.16.

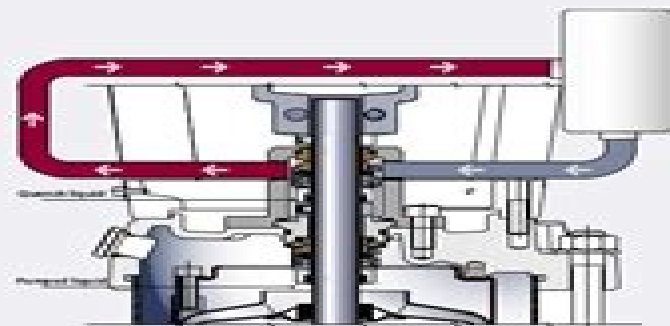


Fig. 1.3.14: Tandem seal arrangement with quench liquid circulation

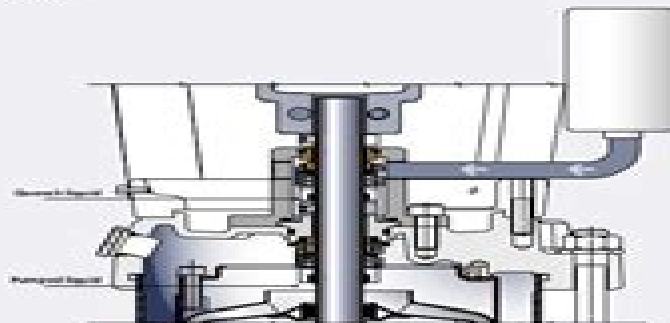


Fig. 1.3.15: Tandem seal arrangement with quench liquid dead end

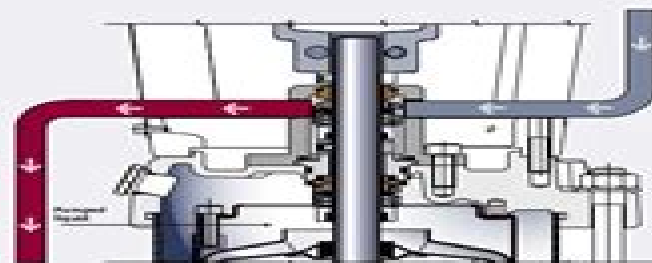


Fig. 1.3.16: Tandem seal arrangement with quench liquid to drain

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