

QFS 2000

Description

- The QFS 2000 stainless steel tank is equipped with sight glasses to monitor the MIN / MAX level and can be fastened with a fastening accessory. Leak overflow can be selectively discharged. Circulation according to API 682 / ISO 21049: Plan 51, Plan 52.
- Quench fluid supply systems are used to lubricate single or tandem mechanical seals. They act as a convenient fluid reservoir. The fluid exchange takes place by the principle of thermosiphon or forced circulation, e.g. with an external pump.

Technical Features

- Available in a range of different material combinations, it is suitable for a wide range of challenging operating conditions. Tank made of 1.4571 steel: high resistance to corrosive media. Integrated overflow for the selective discharge of leaks.
- Additionally or alternatively to the sight-glass, it is possible to use a level switch to control the fluid volume. Combined fill and ventilation filter in the coolant tank for reliable operation. Design for average temperatures up to +200 °C (+392 °F).

Notes

- Install the coolant reservoir approx. 1 to 2 m (3.3 to 6.6 ft) above the mechanical seal. Install the connecting pipes to the mechanical seal with low resistance. Pipes should be automatically vented in the direction of the tank. It is imperative to avoid pockets of air. The minimum filling must always be above the side connection connector (in the case of the thermosiphon principle). Cooling fluid systems can be operated in two different modes:
- Dead-end quench (Plan 51):** Quench liquid from a raised tank. The characteristic feature of this principle is that there is no heat dissipated by the system.
- Circulation (Plan 52):** Quench liquid from a raised tank; External tank, without pressure; Thermosiphon or forced circulation. In this case the heat is dissipated by the circulation. However, the convection cooling capacity is minimal.

Functional description

Quench fluid systems are employed:

- to absorb leakage
- to monitor the leakage rate (e.g. through periodic reading of the level in the tank).
- to lubricate and to cool the outboard mechanical seal in a tandem arrangement.
- to prevent icing.
- to protect against dry running.
- to stabilize the lubricating film.
- to exclude air from the media in order to prevent a reaction with oxygen in the air

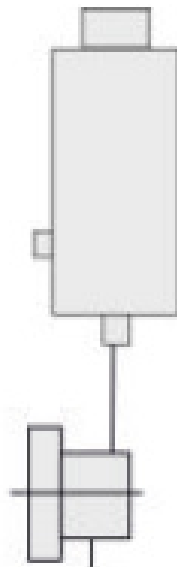
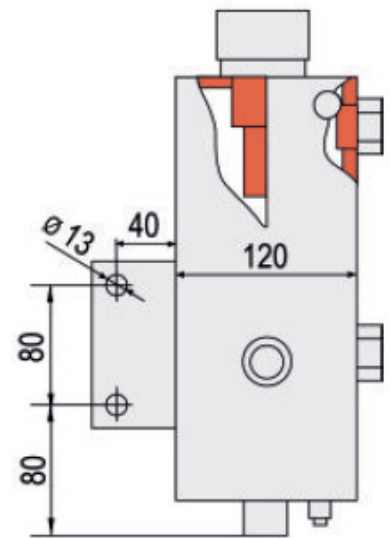
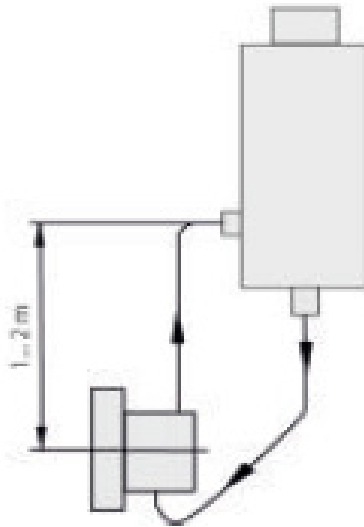
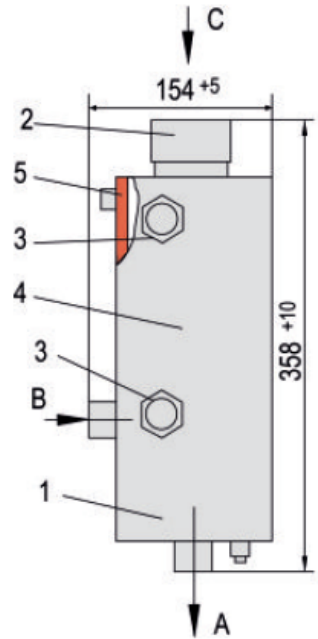
Recommended applications

 Chemical industry

 Food processing industry

 Pharmaceutical industry

Installation, Details, Options



Item	Description
1	Storage tank (Capacity 3 l)
2	Inlet filter with vented cap
3	Sight-glass or level switch
4	Name plate
5	Overflow G 1/8

Connections

A	To the mechanical seal
B	From the mechanical seal
C	Filling