EagleBurgmann
a member of EKK and FREUDENBERG

RELY ON EXCELLENCE

QFT1000

Seal Supply Systems | Quench fluid systems

Advantages

- Excellent value for money
- Transparent polyethylene: fluid level is read off directly on the quench fluid tank
- Resistant to a wide range of quench media
- Quickly and easily installed
- Combined filling and ventilation filter in the quench fluid tank for reliable operation

Recommended applications

- Chemical industry
- Food and beverage industry
- Pharmaceutical industry

Features

Quench fluid supply systems are used to supply single or tandem mechanical seals. They act as a convenient fluid reservoir. The exchange of fluid takes place by the thermosiphon principle or by forced circulation, e.g. with a pumping screw. The QFT1000 is made of transparent polyethylene, complete with clips made of stainless steel. The QFT1000 is resistant to water, glycerine, glycols and methanol; not resistant to mineral oils and toluene.

Functional description

Quench fluid systems are employed:

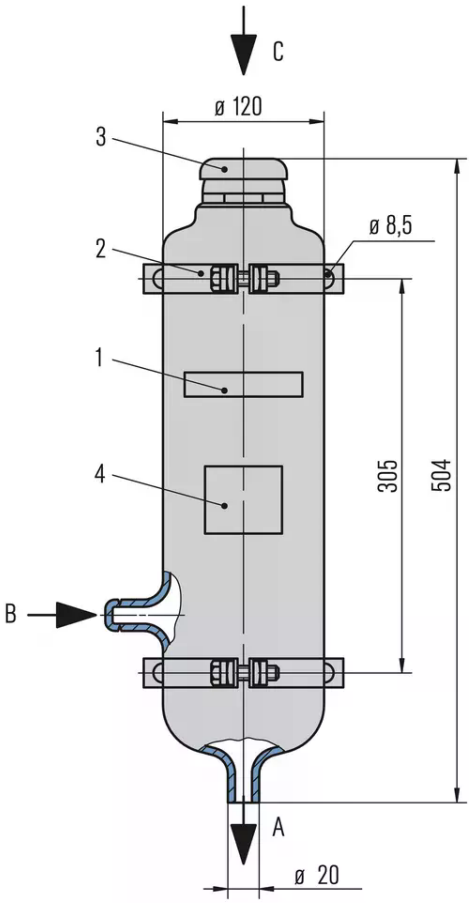
- to absorb leakage
- to monitor the leakage rate (e.g. through periodic reading of the level in the tank)
- to lubricate and to cool the outboard mechanical seal in a tandem arrangement
- to prevent icing
- to protect against dry running
- to stabilize the lubricating film
- to exclude air from the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

Notes

eagleburgmann.com
info@eagleburgmann.com

All technical specifications are based on extensive tests and our many years of experience. The diversity of possible applications means, however, that they can serve only as guide values.
We must be notified of the exact conditions of application before we can provide any guarantee for a specific case. Subject to change.

Supply of mechanical seal based on API 682 / ISO 21049, Plan 51. Install the quench fluid tank approx. 1 ... 2 m (3.3 ... 6.6 ft) above the mechanical seal. Install connection pipes to the mechanical seal with low flow resistance. Pipes must vent automatically in the direction of the tank. It is imperative that air pockets are prevented. The minimum filling level must always be above the connection socket at the side (in the case of the thermosiphon principle). Quench fluid systems can be operated in two different modes.



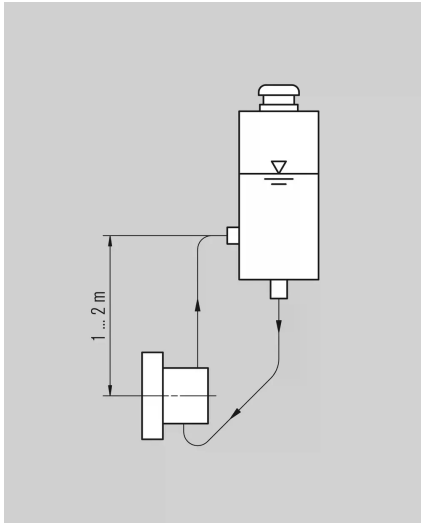
Item	Description
1	Storage tank(capacity 4 l)
2	Clip
3	Inlet filter with vented cap
4	Name plate

Connections

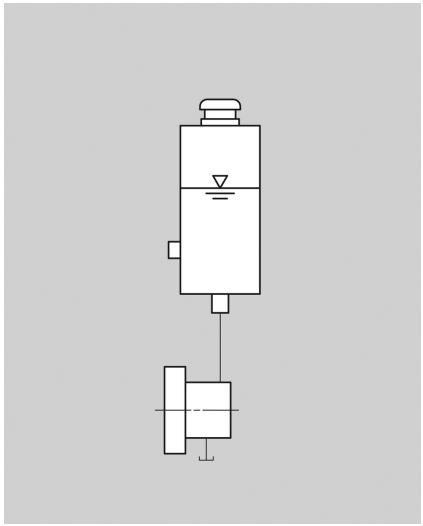
A	To the mechanical seal
B	From the mechanical seal (optional)
C	Filling

All technical specifications are based on extensive tests and our many years of experience. The diversity of possible applications means, however, that they can serve only as guide values.
We must be notified of the exact conditions of application before we can provide any guarantee for a specific case. Subject to change.

Installation, details, options



Circulation
of the quench fluid from an elevated tank; external tank, pressureless; thermosiphon or forced circulation. In this case heat is dissipated by the circulation. Cooling capacity by convection is minimal, however.



Dead-end quench (API Plan 51):
Quench fluid from an elevated tank. The characteristic feature of this principle is that no heat is dissipated by the system.

All technical specifications are based on extensive tests and our many years of experience. The diversity of possible applications means, however, that they can serve only as guide values.
We must be notified of the exact conditions of application before we can provide any guarantee for a specific case. Subject to change.

Product variants

Designation	QFT1000-00	QFT1000/M001-00
Volume (liters)	4	4
Allowable pressure	Pressureless	Pressureless
Allowable temperature	-30 °C ... +70 °C(-22 °F ... 158 °F)	-30 °C ... +70 °C(-22 °F ... 158 °F)
Material, tank		
Polyethylene	■	■
Material, filling filter		
Polyamide	■	■
Process connections		
Hose	■	
Fitting for tube, 10 mm		■

Other Versions on request.

All technical specifications are based on extensive tests and our many years of experience. The diversity of possible applications means, however, that they can serve only as guide values.
We must be notified of the exact conditions of application before we can provide any guarantee for a specific case. Subject to change.