

RELY ON EXCELLENCE

## QFT6000

Seal Supply Systems | Quench fluid systems



### Features

Quench fluid supply systems are used to supply single mechanical seals. They act as a convenient fluid reservoir. The QFT6000 stainless steel tank is equipped with a sight-glass for monitoring the MIN/MAX filling level and can be fastened with a lug fixture.

Supply of mechanical seal in accordance with API 682 / ISO 21049, [Plan 51](#).

### Functional description

Quench fluid systems (Plan 51) are employed:

- to absorb leakage
- to monitor the leakage rate (e.g. through periodic reading of the level in the tank)
- 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

### Advantages

- Sight-glass for MIN/MAX monitoring has a large indicator area
- Filling is possible via a filling filter or a separate pipe connection
- Combined filling and ventilation filter in the quench fluid tank for reliable operation
- Tank made of 1.4571: high resistance to corrosive media

### Recommended applications

- Refining technology
- Oil and gas industry
- Chemical industry
- Petrochemical industry

Item	Description
1	Storage tank (capacity 3 l)

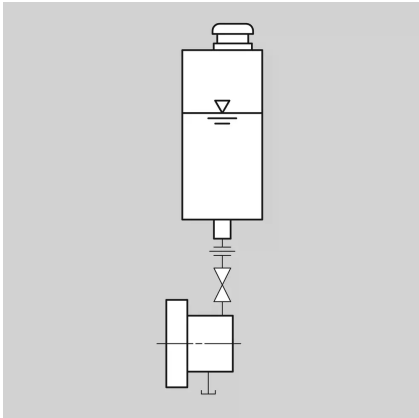
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Item	Description
2	Sight glass
5	Name plate
6	Filter and breather

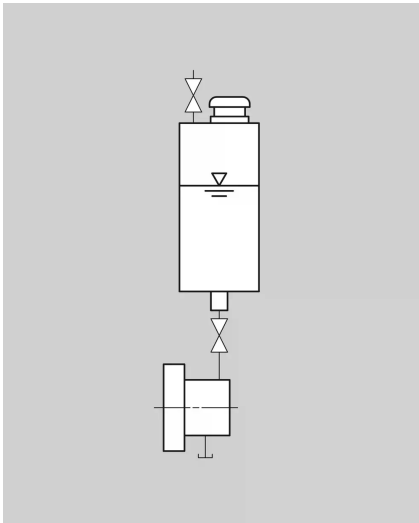
### Connections

A	To the mechanical seal
B	Filling via pipe connection
C	Filling via filling filter

## Installation, details, options



P&ID for QFT6 quench system according to API 682 4th edition.



Install the quench fluid tank 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 QFT6000 quench fluid system can be operated in accordance with API Plan 51 (dead-end quench). Quench fluid from an elevated tank. The characteristic feature of this principle is that no heat is dissipated by the system.

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## Product variants

Designation	QFT6000/M001-D0	QFT6000A4M001-D0
Volume (liters)	3	3
Allowable pressure	Pressureless	Pressureless
Allowable temperature	-20 °C ... +80 °C(-4 °F ... +176 °F)	-20 °C ... +100 °C(-4 °F ... +212 °F)
Material, tank		
1.4571	■	■
Material, filling filter		
Glass-fibre reinforced polyamide	■	■
Material, inspection glass		
Glass/FKM	■	■
Borosilicate/PTFE		■
Process connections		
1/2" NPT (f)	■	■
Execution		
API 682 3rd Edition	■	
API 682 4th Edition		■



**QFT6000A4M001-D0** Quench system according to API 682, 4th edition.