EagleBurgmann
a member of EKK and FREUDENBERG

RELY ON EXCELLENCE

WEF6 Water cooler

API 682 4th edition product range | Seal supply systems | Coolers

Features

Heat exchangers of the WEF6 range are used to cool process/barrier fluids in seal supply circuits. WEF6 heat exchangers are fully compliant with API 682 4th edition regulations. The process/barrier medium is directed through the tube, and the cooling medium is directed through the shell.
Venting and draining of the process/barrier medium side as well as the cooling water side is ensured. In addition, the heat exchangers can also be combined with a temperature instrument in the supply line to the mechanical seal (optional in accordance with API 682 4th edition).

Notes

Design and production in accordance with EU Pressure Equipment Directive PED 2014/68/EU.
Design, calculation and production acc. to ASME VIII, Div. 1
(cooler not subject to ASME stamp requirements, piping <6")

Cleaning:
Process/barrier medium side and cooling water side: flush with a suitable solvent.

Advantages

- Operating limits up to 65 bar / 260 °C (943 PSI / 500 °F) (tube side): suitable for a wide range of operations
- Cooling water and process side can be completely vented and drained
- Seamless pipes on process side
- Special design without welding inside the cooler
- Higher cooling water velocity due to innovative cooler design
- Stainless steel 316/316L: high resistance to corrosive media

Standards and approvals

- PED 2014/68/EU (Design and production in accordance with EU Pressure Equipment Directive)
- ASME VIII, Div. 1 possible (see notes)
- API 682 4th edition

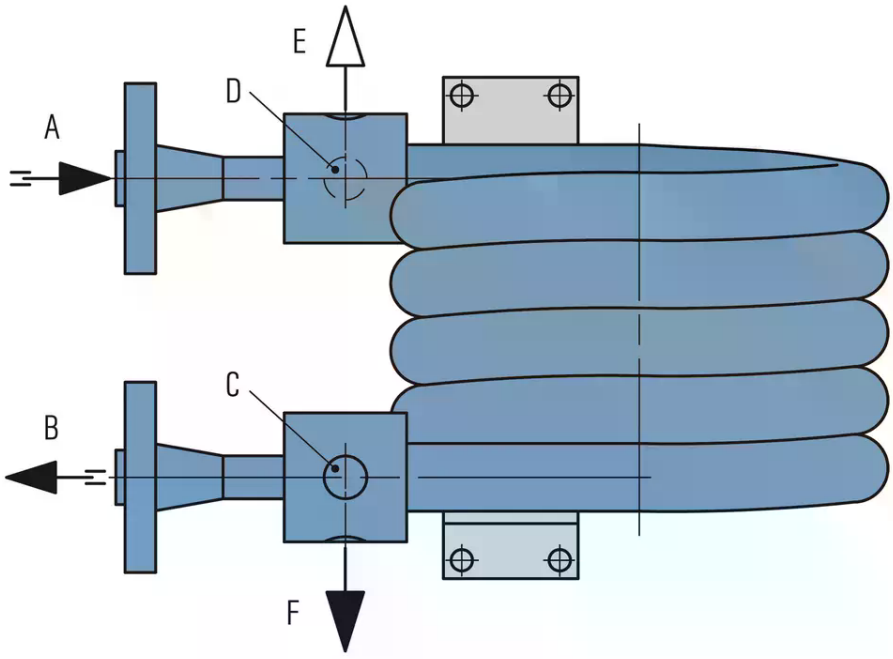
Recommended applications

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

Recommended piping plans

Plan 21
Plan 22
Plan 23
Plan 41

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.



WEF6000A4

A From mechanical seal
B To mechanical seal
C Cooling water IN
D Cooling water OUT
E Vent
F Drain

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Installation, details, options

Product variants

****	WEF6
Cooler design	Pipe-in-pipe (coaxial)
Conformity	API 682
Design code	ASME VIII, Div. 1 oder PED2014/68/EU
Weight (empty)	28 kg
Process fluid	
Process connections1)	Flange 3/4", 600 lbs
Design pressure1)	76 bar (g)
Design temperature1)	150 °C
Material (metal parts)1)	316/316L / 1.4401/1.4404
Cooling water	
Process connections1)	3/4" NPT (f)Flange 3/4", 300 lbs
Drain / vent connection1)	1/2" NPT (inside)
Design-pressure1)	25 bar (g)
Design temperature1)	150 °C
Material (metal parts)1)	316/316L / 1.4401/1.4404
Cooling capacity depending on process fluid	(low flow2) / high flow3))
Water	8,2 kW / 12,4 kW
Öl ISO VG10	2,7 kW / 4,1 kW

Other versions on request.

1) Standard design data, extendend pressure / temperature rating on request.
2) The cooling performance depends on the available fluids, their temperatures and flow rates. Please contact EagleBurgmann for professionally selecting the correct heat exchanger.

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