EagleBurgmann
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RELY ON EXCELLENCE

WEF6 Water cooler

API 682 4th edition | 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

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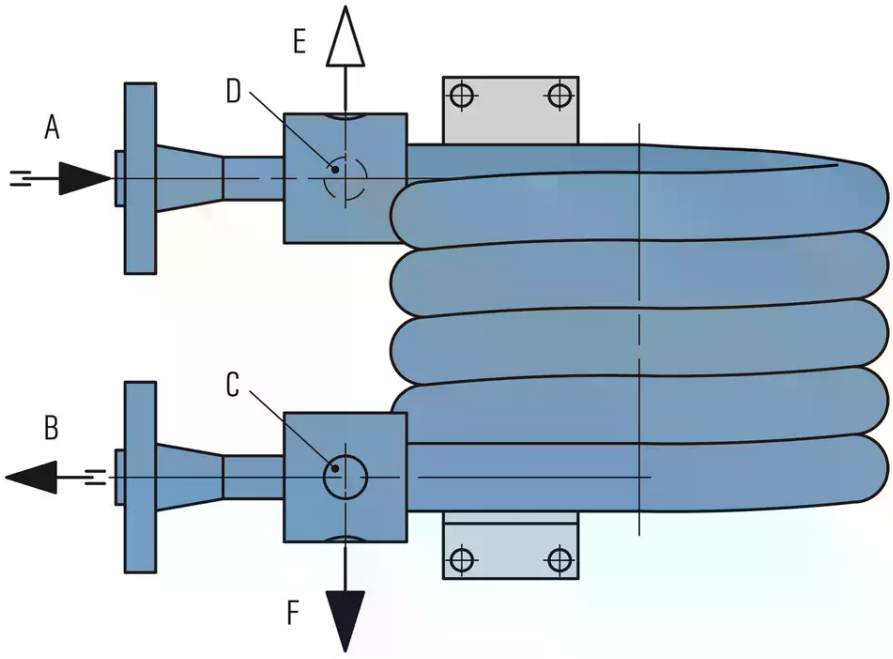

WEF6000A4

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

Installation, details, options

Product variants

Designation	WEF6100A4	WEF6101A4	WEF6000A4	WEF6001A4
Design code	ASME VIII, Div. 1	PED 2014/68/EU	ASME VIII, Div. 1	PED 2014/68/EU
	Tube	Shell	Tube	Shell
Process connections	Flange 3/4",600 lbs	NPT 3/4"	Flange 3/4",600 lbs	NPT 3/4"
Drain / vent connection	NPT 1/2"	NPT 1/2"	NPT 1/2"	NPT 1/2"
Allowable pressure1)	65 bar(943 PSI)	25 bar(362 PSI)	65 bar(943 PSI)	25 bar(362 PSI)
Allowable temperaturecooling water side (shell side)1)	-29 °C ... +150 °C(-20 °F ... +302 °F)	-29 °C ... +150 °C(-20 °F ... +302 °F)	-29 °C ... +150 °C(-20 °F ... +302 °F)	-29 °C ... +150 °C(-20 °F ... +302 °F)
Allowable temperatureprocess/ barrier medium side (tube side)1)	-29 °C ... +260 °C(-20 °F ... +500 °F)	-29 °C ... +260 °C(-20 °F ... +500 °F)	-29 °C ... +260 °C(-20 °F ... +500 °F)	-29 °C ... +260 °C(-20 °F ... +500 °F)
Cooling capacity (kW)2)	10	10	10	10
Metal parts	316/316L	316/316L	316/316L	316/316L

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.