EagleBurgmann
a member of EKK and FREUDENBERG

RELY ON EXCELLENCE

WE6

Seal Supply Systems | Heat exchangers

Features

Heat exchangers of the WE6 range are used to cool process/barrier fluids in seal supply circuits. WE heat exchangers are available in two standard sizes and are API 682 conform. The process/barrier medium is directed through the tube and the cooling medium through the shell.

For simple draining or venting of the cooling water side, the heat exchanger can also be supplied with ventilation/drainage ball valves. 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).

Circulation in accordance with API 682 / ISO 21049: Plan 21, Plan 22, Plan 23, Plan 41

Notes

Cleaning:
Cooling water side: the area around the tubes can be cleaned mechanically after the housing is removed.
Process/barrier medium side: flush with a suitable solvent.

Advantages

- Operating limits up to 45 bar / 260 °C (tube side): suitable for a wide range of demanding operating conditions.
- Heat exchanger can be dismantled: for optimum and simple cleaning of the tubes
- Cooling water side and process side can be completely vented and drained
- 1.4404 stainless steel: high resistance to corrosive fluids

Standards and approvals

- PED 2014/68/EU (Design and production in accordance with EU Pressure EquipmentDirective)
- ASME VIII, Div. 1 (Design, calculation and production)

Recommended applications

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

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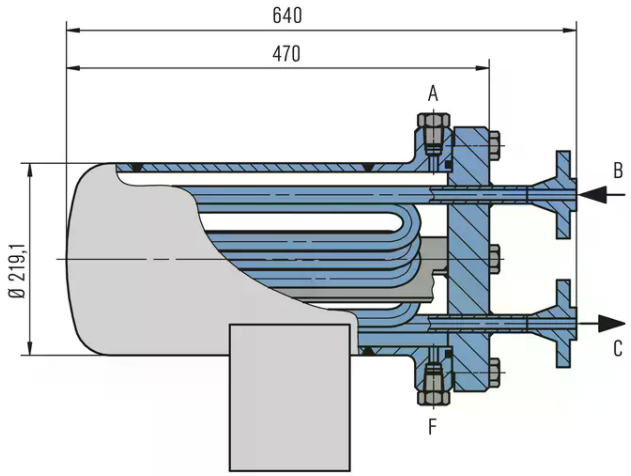
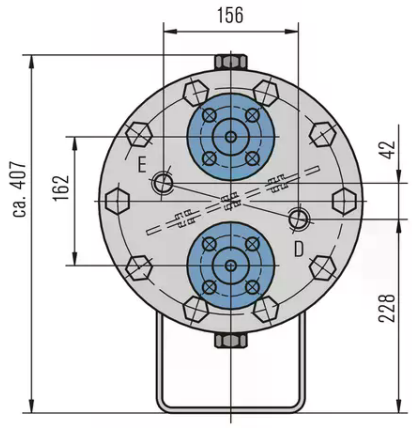
All technical specifications are based on extensive tests and our many years of experience. The diversity of possible applications means, however, that they can serve only as guide values.
We must be notified of the exact conditions of application before we can provide any guarantee for a specific case.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





Item	Description
A	Cooling circuit vent
B	Barrier medium IN
C	Barrier medium OUT
D	Cooling water IN
E	Cooling water OUT
F	Cooling circuit drain

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Installation, details, options

Product variants

****	WE6
Cooler design	Tube coil, dismantable
Conformity	API 682
Design code	ASME VIII, Div. 1 oder PED2014/68/EU
Weight (empty)	70 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", 150 lbs
Drain / vent connection1)	
Design-pressure1)	14 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	7,1 kW / 10,8 kW
ÖI ISO VG10	2,1 kW / 3,2 kW

[1]) further versions available upon request (e.g. operating conditions, flange connection 1500 lbs, duplex material, etc.)
[2]) Low Flow: 8 l/min (process fluid), 10 l/min (cooling water), ΔT = 40 K (hot–cold)
[3]) High Flow: 15 l/min (process fluid), 20 l/min (cooling water), ΔT = 40 K (hot–cold)
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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