

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

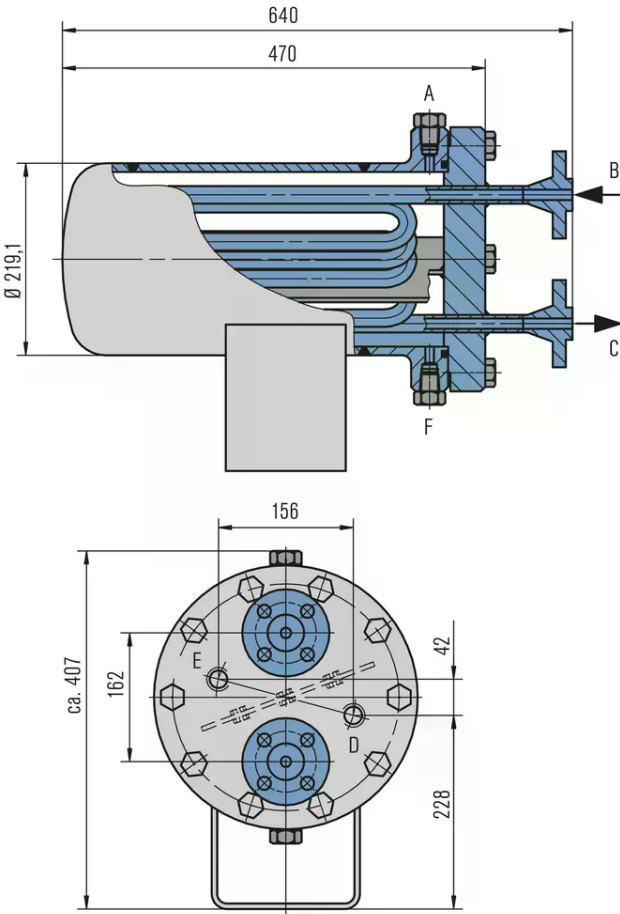
#### Standards and approvals

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

#### Recommended applications

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

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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

****	WEF6	WE6
Cooler design	Pipe-in-pipe (coaxial)	Tube coil, dismantable
Conformity	API 682	API 682
Design code	ASME VIII, Div. 1 oder PED2014/68/EU	ASME VIII, Div. 1 oder PED2014/68/EU
Weight (empty)	28 kg	70 kg
Process fluid		
Process connections <sup>1)</sup>	Flange 3/4", 600 lbs	Flange 3/4", 600 lbs
Design pressure <sup>1)</sup>	76 bar (g)	76 bar (g)
Design temperature <sup>1)</sup>	150 °C	150 °C
Material (metal parts) <sup>1)</sup>	316/316L / 1.4401/1.4404	316/316L / 1.4401/1.4404
Cooling water		
Process connections <sup>1)</sup>	3/4" NPT (f)Flange 3/4", 300 lbs	3/4" NPT (f)Flange 3/4", 150 lbs
Drain / vent connection <sup>1)</sup>	1/2" NPT (inside)	
Design-pressure <sup>1)</sup>	25 bar (g)	14 bar (g)
Design temperature <sup>1)</sup>	150 °C	150 °C
Material (metal parts) <sup>1)</sup>	316/316L / 1.4401/1.4404	316/316L / 1.4401/1.4404
Cooling capacity depending on process fluid		
	(low flow <sup>2)</sup> / high flow <sup>3)</sup> )	(low flow <sup>2)</sup> / high flow <sup>3)</sup> )
Water	8,2 kW / 12,4 kW	7,1 kW / 10,8 kW
Öl ISO VG10	2,7 kW / 4,1 kW	2,1 kW / 3,2 kW

<sup>1)</sup> further versions available upon request (e.g. operating conditions, flange connection 1500 lbs, duplex material, etc.)

<sup>2)</sup> Low Flow: 8 l/min (process fluid), 10 l/min (cooling water),  $\Delta T = 40$  K (hot-cold)

<sup>3)</sup> High Flow: 15 l/min (process fluid), 20 l/min (cooling water),  $\Delta T = 40$  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.