### Product Description

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

HE designed heat exchanger is used to cool process/barrier fluids in seal supply systems.

HE heat exchanger is available in standard construction and conforms to API 682 standards.

The process/barrier medium is directed through the tube and the cooling medium through the shell. For simple draining or venting on the side of the cooling water, the heat exchanger can also be supplied with ventilation/drainage ball valves. Temperature instruments can also be fitted in the supply line of the mechanical seals.

Technical Features

1. Construction design for operating pressure up to 45 bar / 260°C (tube side)
2. Design allows for varied applications due to construction in stainless steel
3. For optimum and simple cleaning of the tubes, the heat exchanger can be dismantled
4. Complete venting and draining of the cooling water side and process can be achieved
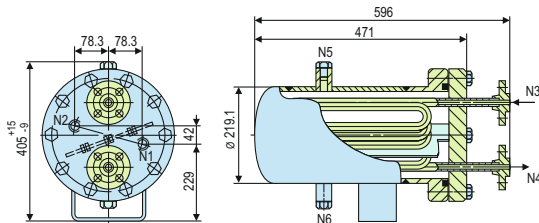
Typical Industrial Applications

Chemical industry
Oil and gas industry
Petrochemical industry
Refining technology

Standards

PED 2014/68/EU (Design and production in accordance with EU Pressure Equipment Directive)

ASME VIII, Div. 1 (Design, calculation and production)

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.

Technical Features		
Designation	**HE**	
	Tube	Shell
Pressure Equipment Directive	ASME	
For shaft diameters > 60 mm (acc. to API682)	x	
Ball valve for draining on the cooling water side		-
Connections	3/4" flange	3/4" NPT
Design pressure[1]	45 bar (653 PSI)	16 bar (232 PSI)
Design temperature[1]	260 °C (500 °F)	150 °C (302 °F)
Cooling capacity (kW)[*]	6	
Metal parts	1.4404	
O-rings	FKM	
Screws	Stainless steel A4-70	

Other versions on request.
[1] **These values are based on the calculation of strength.**
[*] **Related to water on both sides**

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