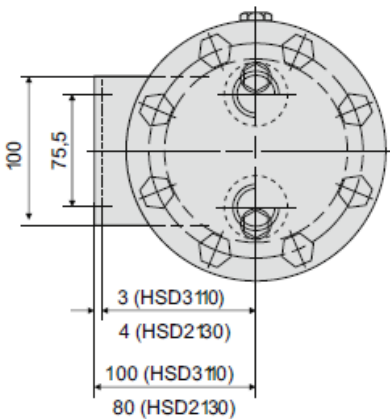
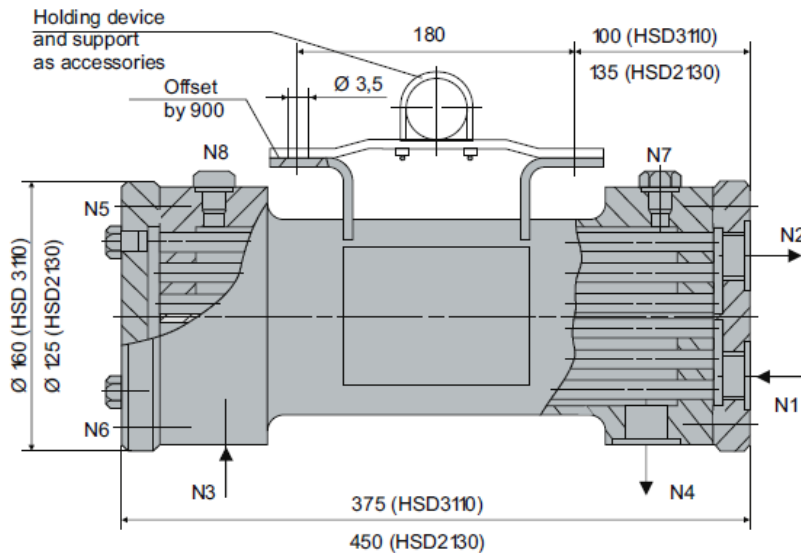


Installation, Details, Options



Connections

N2	Cooling water OUT
N1	Cooling water IN
N4	Process/barrier medium OUT
N3	Process/barrier medium IN
N7/N8	Process/barrier circuit vent
N5	Cooling circuit vent
N6	Cooling water drain

Other versions on request.

1) These values are based on the calculation of strength.

2) These values are based on the calculation of heat.

*) With reference to water

Description

- Heat exchangers of the HSD range are used to cool process/barrier fluids in seal supply circuits. Designed as a tubular heat exchanger with integrated guide plates, the process/barrier medium is directed through the shell of the HSD and the cooling medium through the tubes.
- Circulation in accordance with API 682/ ISO 21 049:
 - Plan 21
 - Plan 22
 - Plan 23
 - Plan 41

Technical Features

- Cooling capacity up to 36 kW*
- It can be installed either in vertical or horizontal position
- The heat exchanger can be dismantled: easy to clean
- Tubular heat exchanger design with integrated guide plates, extremely efficient cooling capacity yet very compact dimensions
- Universal usage: parts in contact with the medium are made of stainless steel






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.

Standards

PED 97/23 EC (Design and production in accordance with EU Pressure Equipment Directive)
ASME VIII, Div. 1 (Design, calculation and production)

Industrial Applications

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

Technical Features

Designation	Tubes	Shell
Pressure Equipment Directive	PDE	
Allowable pressure ¹⁾	16 bar (232 PSI)	130 bar (1885 PSI)
Allowable temperature ¹⁾	150°C (302° F)	
Inlet temperature ²⁾	30°C (86°F)	65°C (149°F)
Flow quantity (m ³ /h) ²⁾ *)	1	approx. 0.5
Volume (liters)	0.23	1.4
Cooling surface ²⁾	0.2	
Cooling capacity (kW) ^{*)}	6	
Metal parts	SS 316	
O-Rings	Viton®	
Gaskets	PTFE	
Screws	Stainless steel A4-70	