GESTRA Fax: ++49 (0) 421 - 35 03-149

Condensate flowrate _____ kg/h

Condensate temperature _____ °C

Condensate pressure _____ bar(a)

Tank design:

❑ Cylindrical ❑ Rectangular ❑ Horizontal ❑ Vertical

Condensate pumps:

Qty. _____

Discharge head _____ mWS

Mains voltage _____

❑ Horizontal pump ❑ Vertical pump

Discharge control:

Level electrode ❑ yes ❑ no

Supply options:

❑ Accessories detached ❑ Accessories assembled and interconnected

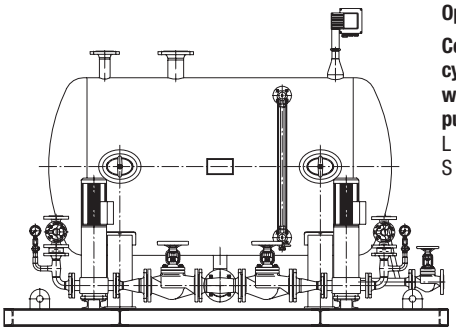
❑ No accessories

Condensate tank made of:

❑ Steel ❑ Stainless steel grade 1.4541 (X6 CrNiTi18-10)

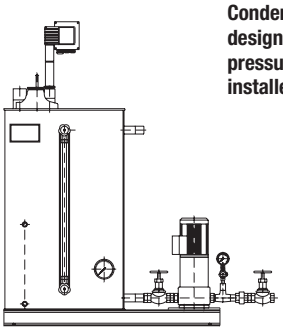
❑ Stainless steel grade 1.4571 (X6 CrNiMoTi17-12-2)

Typical Installations

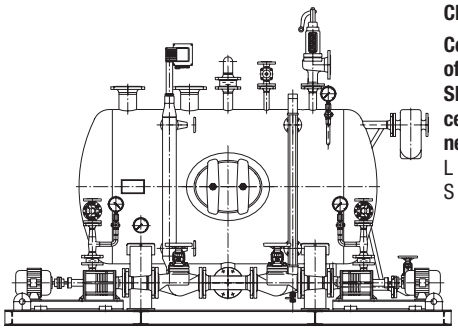


Open System

Condensate receiver tank of cylindrical design type SD L (S) with high-pressure centrifugal pump(s) installed next to tank
L = horizontal design
S = vertical design



Condensate tank of rectangular design type SDR A with high-pressure centrifugal pump(s) installed next to tank



Closed System

Condensate receiver tank of cylindrical design type SD L (S) with horizontal-type centrifugal pump(s) installed next to tank
L = horizontal design
S = vertical design

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Reducing of steam pressure

❑ yes ❑ no

If yes, ❑ Self-acting control ❑ Electric

❑ Electro-pneumatic

Steam flowrate _____

Steam pressure:

P_1 _____ bar/psi upstream of pressure reducing station

P_2 _____ bar/psi downstream of pressure reducing station or when no more pressure reduction takes place

P_3 _____ bar/psi downstream of cooling station

Steam temperature:

t_1 or t_2 _____ °C upstream of pressure reducing station or when no more pressure reduction takes place

t_3 _____ °C downstream of cooling station

Cooling fluid:

P_4 _____ bar/psi upstream of cooler if not fitted

t_4 _____ °C upstream of cooler with pump ❑ yes ❑ no

Water-bath desuperheater ❑ $t_3 = t_s$

Injection cooler ❑ $t_3 = t_s + > 5°$ controllable

Supply options for water-bath desuperheater:

❑ Accessories detached ❑ Accessories assembled

Optional equipment:

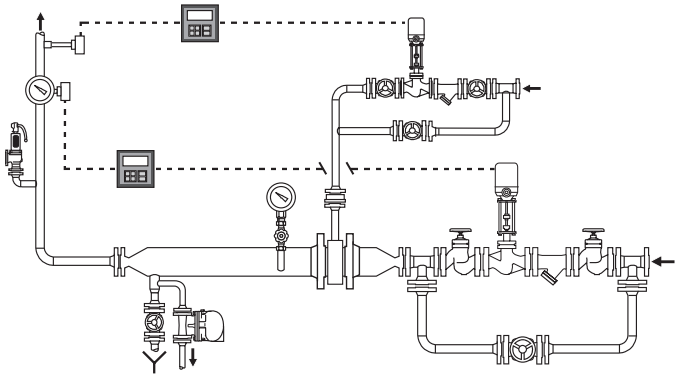
❑ High-temperature alarm ❑ Excess temperature protection

❑ Low-water level alarm

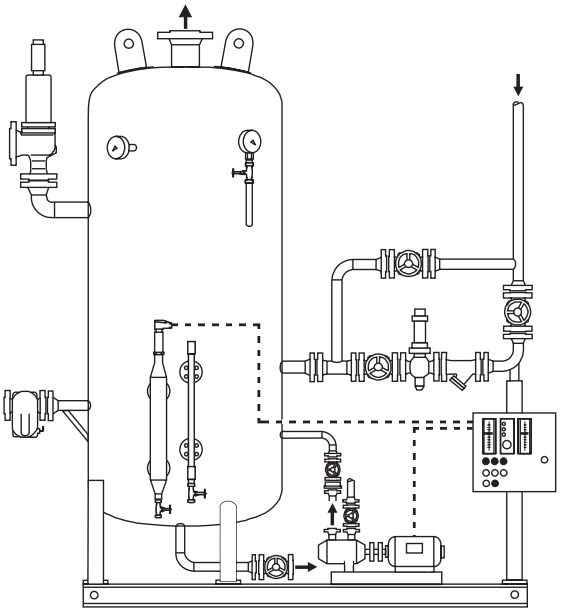
Special requirements concerning cooler:

Material ❑ Steel ❑ Stainless steel grade 1.4571 (X6 CrNiMoTi 17-12-2)

Typical Installations



System 1
Injection cooler with fixed jet orifices



System 3
Water-bath desuperheater

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Thermal output _____

Service data (primary)

Medium: ❑ Steam ❑ Hot water ❑ Thermal oil

Pressure ____ bar/psi Temperature On ____ °C Flowrate _____ kg/h

Temperature Off ____ °C

Services data (secondary)

Medium: ❑ Steam

Feedwater

Pressure ____ bar/psi Temperature _____ °C Flowrate _____ kg/h

Control (pressure side) ❑ Self-acting ❑ Electric ❑ Pneumatic

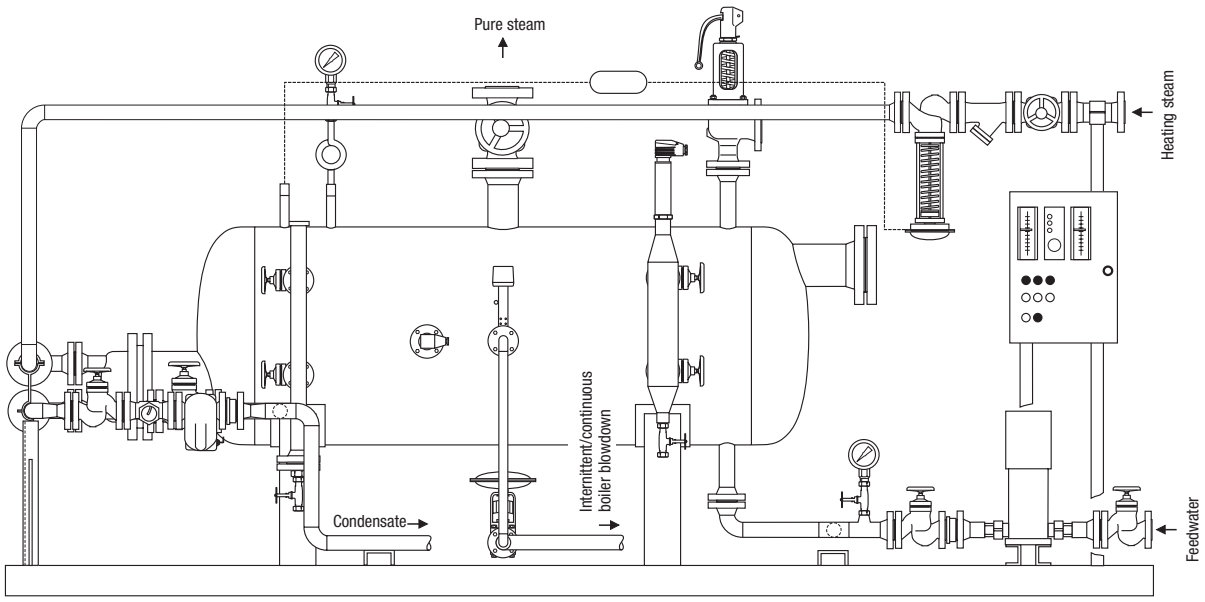
Feedwater control ❑ Solenoid valve or motorized valve ❑ Feedwater pump

Application _____

_____

Typical Installations

Steam regenerator



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Boiler capacity _____ kg/h

Make-up water flowrate _____ kg/h **Temperature** approx._____°C

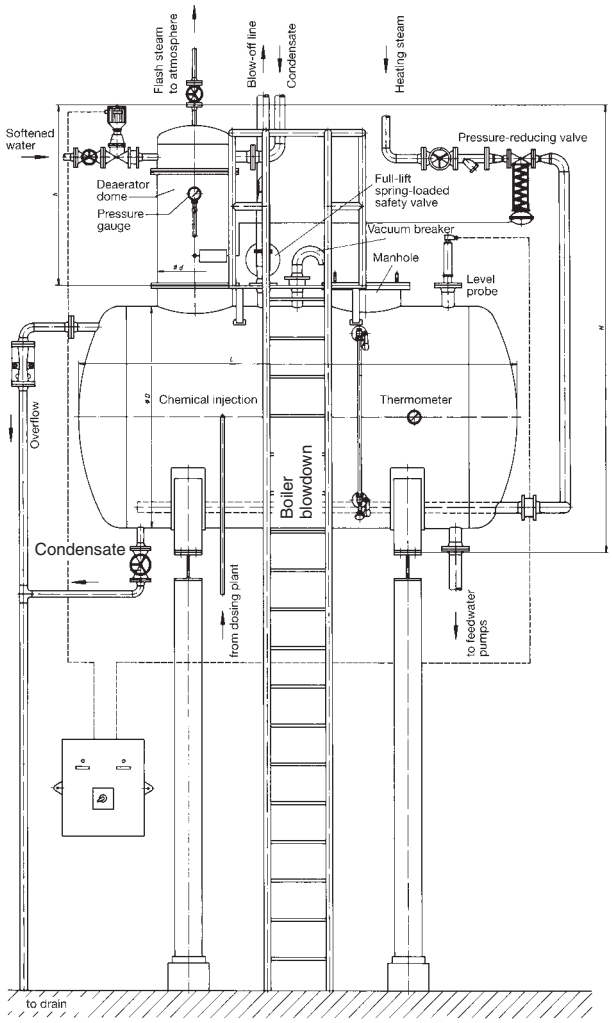
Steam pressure _____ bar(a)

Service pressure (deaerator) _____

Make-up feed control ❑ Electric ❑ Pneumatic

Pressure control ❑ Self-acting ❑ Electric ❑ Pneumatic

Typical Installation



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Pressure p_1 upstream of steam trap at steam user (boiler pressure at flash vessel) P_1 = _____ bar(a)/psi(a)

Pressure p_2 of flash steam at flash outlet to low pressure system P_2 = _____ bar(a)/psi(a)

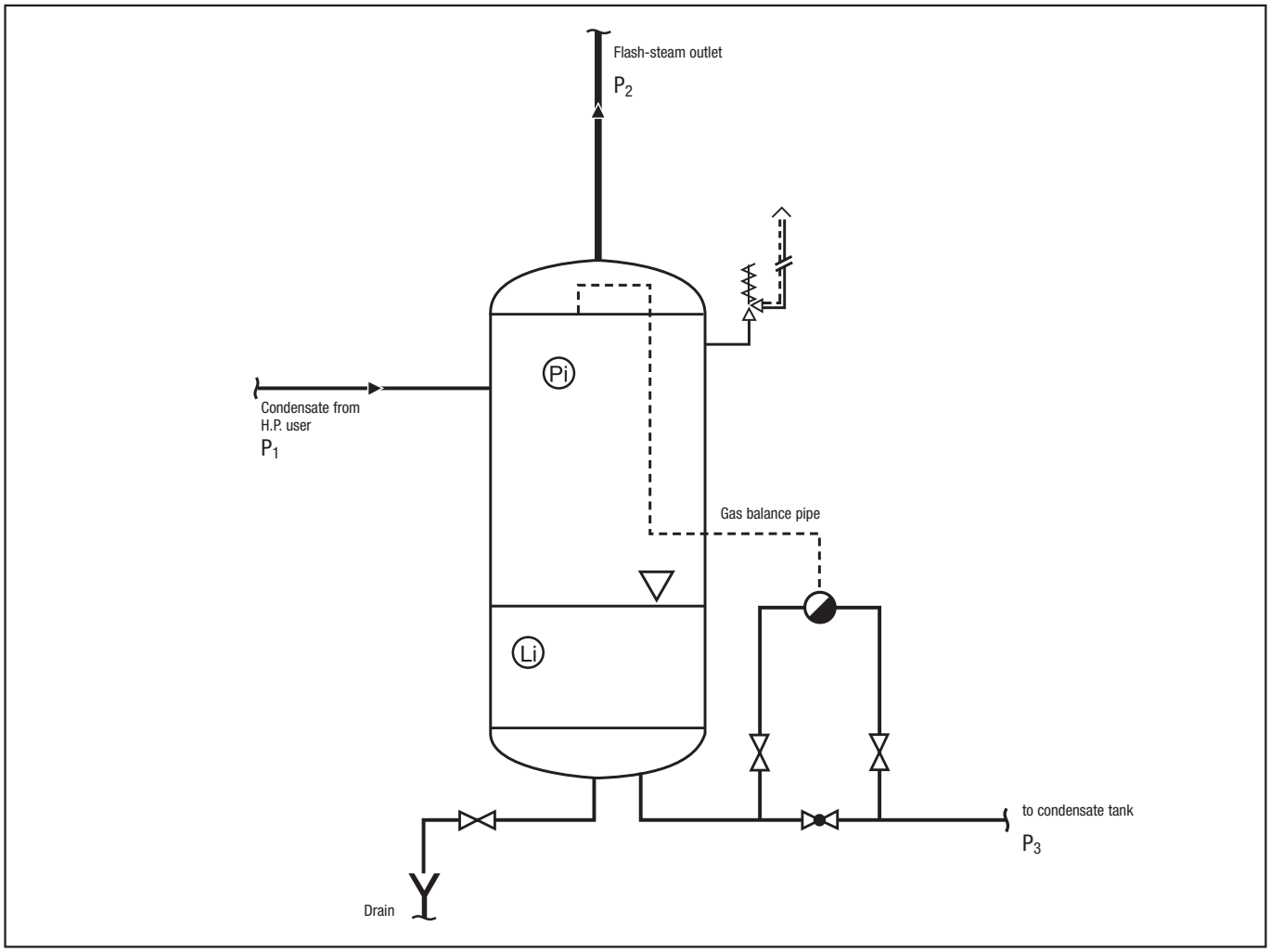
Pressure p_3 downstream of steam trap after the flash vessel P_3 = _____ bar(a)/psi(a)

Condensate flowrate to flash off m = _____ kg/h

Flash vessel material für die Entspanneranlage _____

Please state all pressure specifications in bara or psia!

Typical Installation



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Hot-water flowrate _____ kg/h

Hot-water temperature _____ °C

Hot-water pressure _____ bar(a)

Cooling-water temperature _____ °C

Cooling-water pressure _____ bar(a)

Material

❑ **Steel**

❑ **Stainless steel grade 1.4571 (X6CrNiMoTi 17-12-2)**

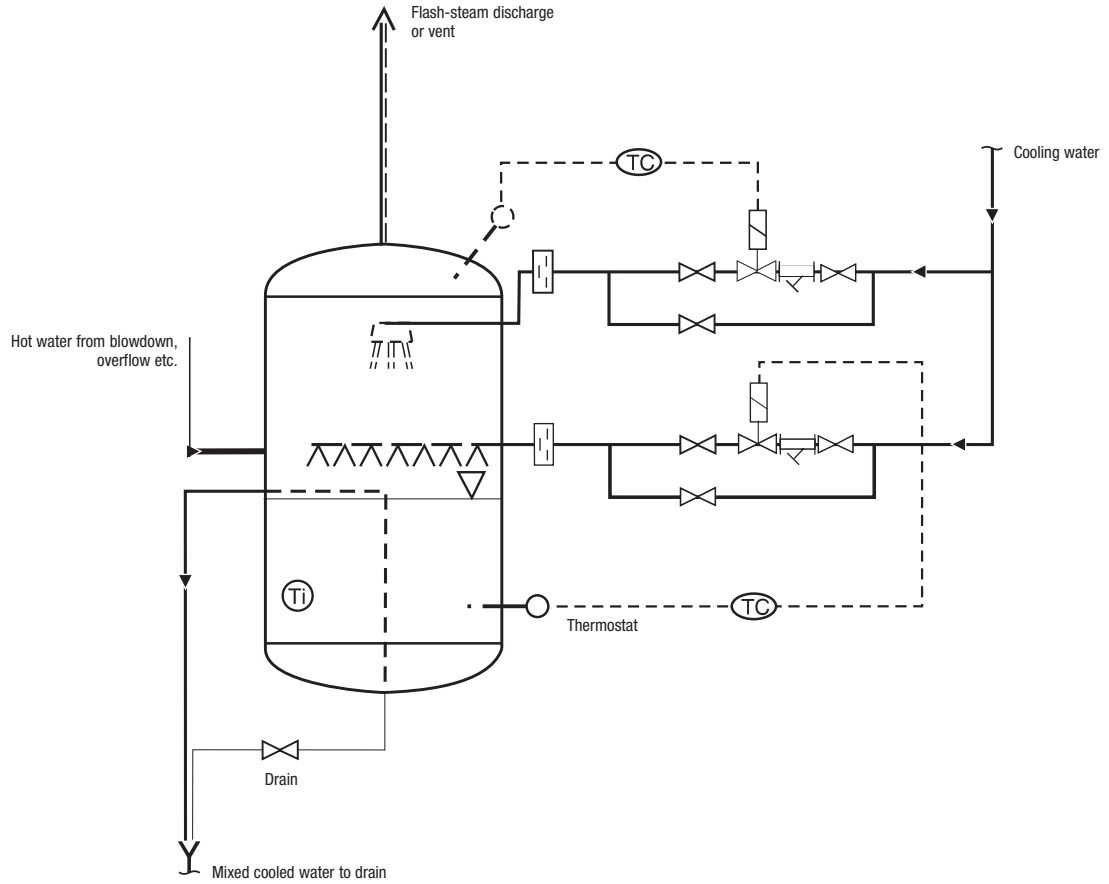
Application

❑ **Boiler blowdown**

❑ **Other**

Typical Installation

Mixing cooler with cooling-water control and, on request, with additional flash-steam condensation



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Thermal output _____

Service data (primary)

Medium: ❑ Steam ❑ Hot water ❑ Thermal oil

Pressure____ bar/psi Temperature (in) _____°C Flowrate_____ kg/h

Temperature (out) _____°C

Material: ❑ Steel ❑ Stainless steel grade 1.4571 (X6CrNiMoTi 17-12-2)

Service data (secondary)

Medium: ❑ Steam ❑ Hot water ❑ Thermal oil

Pressure____ bar/psi Temperature (in) _____°C Flowrate_____kg/h

Temperature (out) _____°C

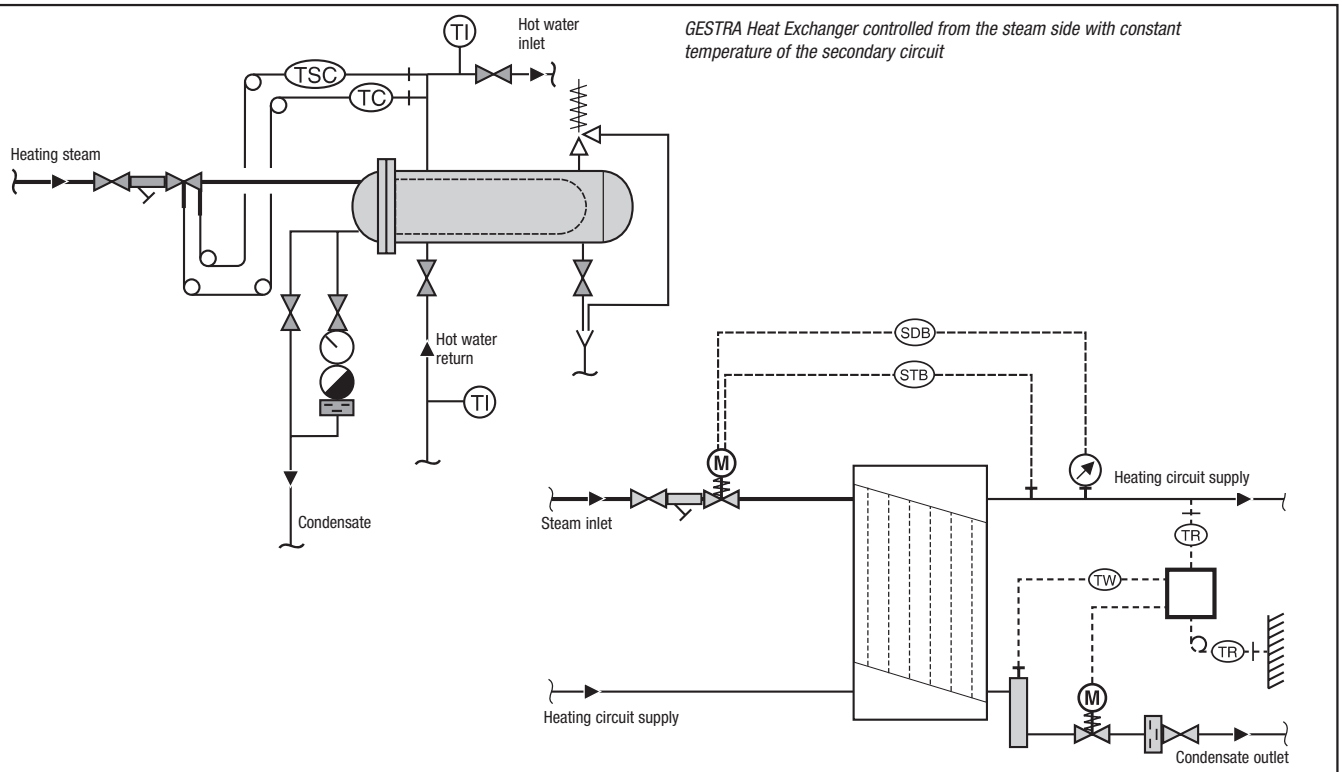
Material: ❑ Steel ❑ Stainless steel grade 1.4571 (X6CrNiMoTi 17-12-2)

Control ❑ Self-acting ❑ Electric ❑ Pneumatic

Controlled from the condensate side ❑

Design ❑ horizontal tube bundle heat exchanger ❑ vertical tube bundle heat exchanger

Typical Installation



GESTRA Heat Exchanger controlled from the steam side with constant temperature of the secondary circuit

GESTRA Heat Exchanger controlled from the condensate side as a function of the outside temperature and safety shut-down controlled from the steam side

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Medium: ❑ Saturated steam ❑ Superheated steam ❑ Air ❑ Gas _____

Flowrate: $\dot{m}$ = _____ kg/h $\dot{V}_N$ = _____ Nm^3/h

Service pressure: p = _____ bara/psia

Service temperature: t = _____ °C

Approved pressure: p = _____ barg/psig

Approved temperature: t = _____ °C

Inspection and certification: _____

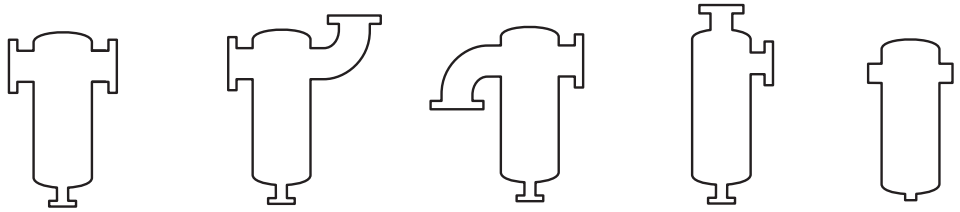
Connections: Inlet/Outlet: DN/PN _____

Condensate outlet: DN/PN _____

Material: ❑ S235JRG2 (RSt 37-2) ❑ P265GH (H II) ❑ 16 Mo 3

❑ 1.4541 (V2A) ❑ 1.4571 (V4A) ❑ _____

Connection arrangements: ❑ ❑ ❑ ❑ ❑



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