



FLASH VESSEL

MODEL FV Series CARBON STEEL

RECOVERS FLASH STEAM FROM HIGH PRESSURE STEAM-USING EQUIPMENT

Features

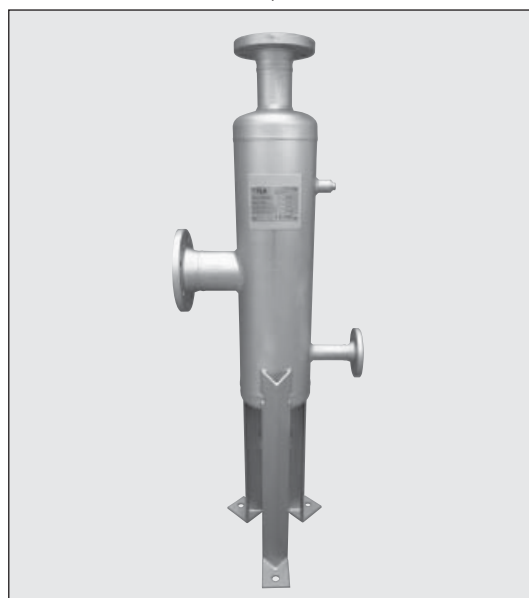
Condensate flash vessel provides a simple and efficient method to make use of flash steam in the condensate recovery system. For the recovery and economic recycling of flash steam from high pressure steam-using equipment.

1. Designed in accordance with the Pressure Equipment Directive 2014/68/EU.
2. Low flow velocities for optimal steam quality.
3. Also available as part of a complete flash recovery system, including all the necessary valves to control and safeguard the condensate line. (Optional, consult TLV.)

Pressure Equipment Directive (PED)

Classification according to PED 2014/68/EU, fluid group 2

Model	Category	CE Marking
FV-200	II	With CE marking and Declaration of Conformity
FV-300	III	With CE marking and Declaration of Conformity
FV-400	III	With CE marking and Declaration of Conformity



Specifications

Model	FV-200	FV-300	FV-400
Body Material	1.0345 (P235GH)		
Connection	Flanges acc. to DIN EN 1092-1 Type 11 PN40		
Size (DN)	See "Connections"		
Max. Operating Pressure (barg) PMO	16		
Max. Operating Temperature (°C) TMO	260		
Approx. Volume (ℓ)	30	70	140
Applicable Fluid*	Steam/Condensate		

* Do not use with toxic, flammable or otherwise hazardous fluids.

1 bar = 0.1 MPa

PRESSURE SHELL DESIGN CONDITIONS (**NOT** OPERATING CONDITIONS): Maximum Allowable Pressure (barg) PMA: 16
Maximum Allowable Temperature (°C) TMA: 260



To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted.

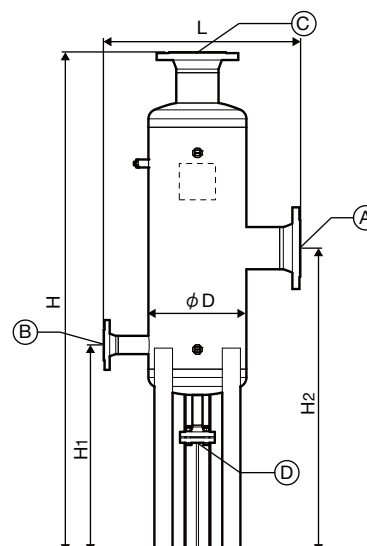
Dimensions

(mm)

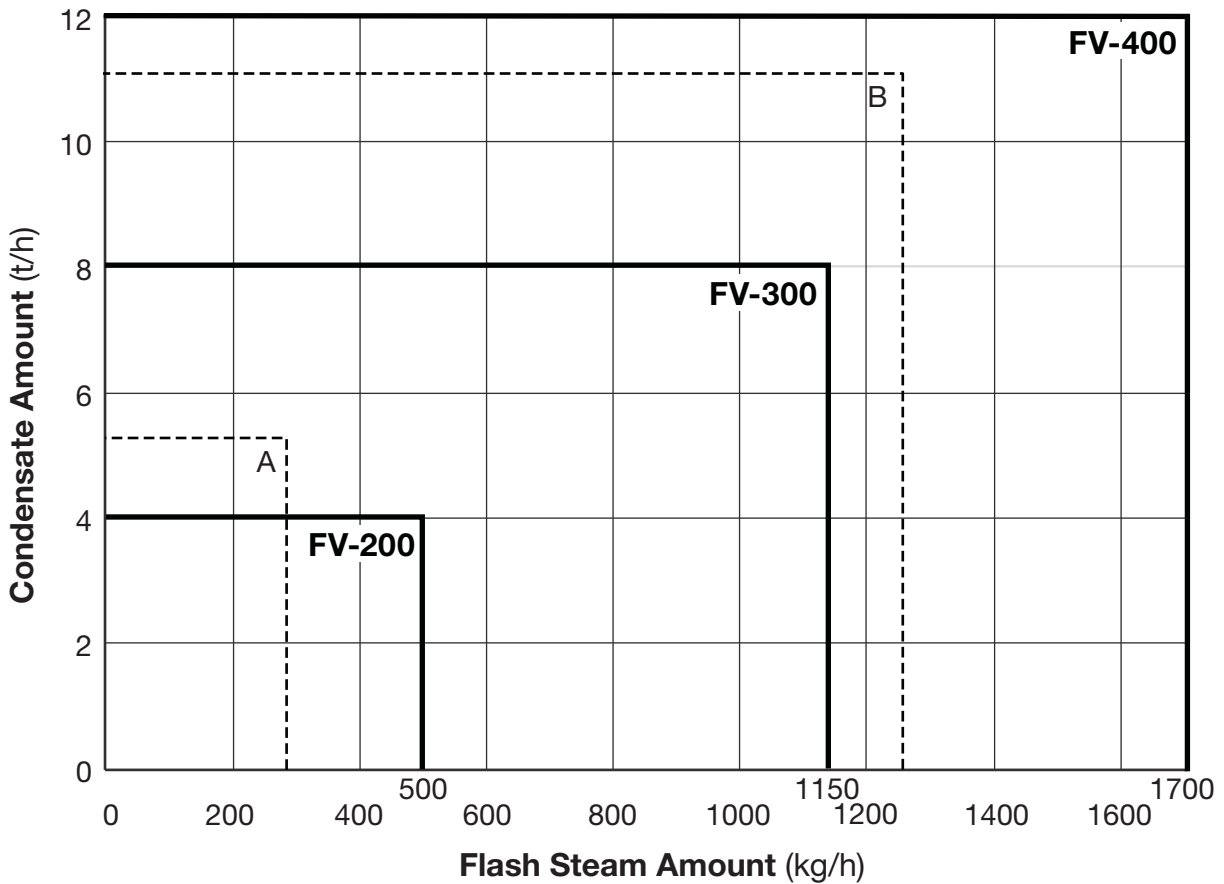
Model	L		φ D	H	H ₁	H ₂	Weight* (kg)
	DIN EN 1092-1	PN40					
FV-200	530	219.1	1515	685	945	36	
FV-300	640	323.9	1653		1005	60	
FV-400	730	406.4	1902	711	1111	108	

Connections

Model	Inlet A	Outlet B	Exhaust C	Drain D	Process Connections
FV-200	DN 100	DN 40	DN 80	DN 25	1 × G 1/2" 2 × G 3/4"
FV-300	DN 125	DN 50	DN 125		
FV-400	DN 150	DN 50	DN 150		



Capacity Chart



Example 1:

5500 kg/h condensate from a 5 barg steam consumer should be expanded to 2 barg. Approx. 277 kg/h flash steam is generated. A suitable condensate flash vessel must be selected. Move from the 5500 kg/h condensate volume horizontally to the right and from the 344 kg/h flash steam volume vertically upwards. Since the point of intersection is within the area of the FV-300, the flash vessel FV-300 must be selected.

Example 2:

With a condensate quantity of 11,000 kg/h, the pressure should be reduced from 12 barg to 2 barg. This produces approx. 1286 kg/h of flash steam. A suitable condensate flash vessel must be selected. Move from the 11,000 kg/h condensate volume horizontally to the right and from the 1286 kg/h flash steam volume vertically upwards. Since the point of intersection B is within the area of the FV-400, the flash vessel FV-400 must be selected.

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ISO 9001

