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Flash Vessel

Description :

Condensate at higher pressure will generate flash steam if it is allowed to flow from high pressure to low pressure. The flash steam can be recovered and gainfully used in the process requiring low pressure steam. This is possible by use of Spirax Flash Vessel.

Available Sizes and Pipe Connections :

Size	Condensate Inlet	Condensate Outlet	Flash Steam Outlet
6	50 NB FLG ASA 150	50 NB FLT ASA 150	50 NB FLG ASA 150
8	80 NB FLG Tab 'F'	50 NB FLG Tab 'F'	80 NB FLG Tab 'F'
12	80 NB FLG Tab 'F'	50 NB FLG Tab 'F'	100 NB FLG Tab 'F'

Drain : Provided at the bottom 1" BSP (Except Size 6")

Limiting Conditions :

PMO = Maximum Working Pressure = 10.5 barg

TMO = Maximum Working Temperature = 180°C

Cold hydraulic test pressure = 21 barg

Installation :

The flash vessel should be mounted with the flash stem outlet at the top.

Material :

No.	Description	Material	Standard
1	Main Shell	Carbon Steel	IS 2062

Dimensions : (approximate) in millimeters

Size	A	B	C	D	E
6	168	1550	350	500	450
8	219	1615	140	630	250
12	324	1395	140	455	250
15	400	1605	155	600	250

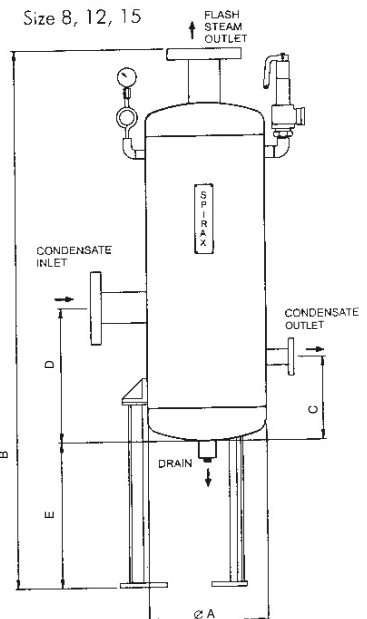
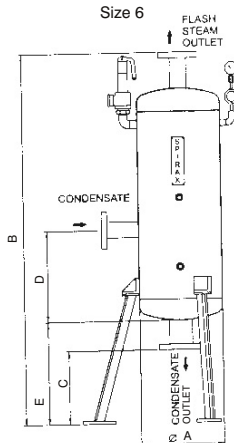
Tolerance k2%

Available accessories :

Pressure gauge (with syphon and cock)

A 3/8" screwed socket and elbow is provided for pressure gauge.

Flash Vessel	Safety Valve SV 11	Float Trap FT 14	Strainer Fig 12	Sight Glass
Size 6	20 NB	50 NB	50 NB	50 NB
Size 8	20 NB	50 NB	50 NB	50 NB
Size 12	40 NB	50 NB	50 NB	50 NB
Size 15	50 NB	50 NB	50 NB	50 NB



How to Size :

Use the chart below to select the appropriate size flash vessel. It is necessary to know the pressure on the steam traps or boiler pressure in the case of blowdown heat recovery, the flash steam pressure (desired or existing) and the condensate or blowdown flowrate.

Example 1 : (solid lines)

A boiler plant operating at 12 barg has a TDS control blowdown flowrate of 2,500 kg/h (3 boilers at 833 kg/h each). The flash steam from the blowdown is to be added to the low pressure steam system operating at 1 barg.

1. From boiler pressure move horizontally to flash steam pressure - A
2. Drop vertically to blowdown flowrate in kg/h - B
3. Follow curve to right hand scale and across to same flash pressure - C
4. Move upwards to flash vessel size. Select flash vessel - in this case an FV8 is required.

Example 2 : (dotted lines)

A plant operating on steam at 11 barg condenses 4,000 kg/h of steam Flash is to be recovered at 0.5 barg.

1. From pressure on steam traps move horizontally to flash steam pressure - A1
2. Drop vertically to condensate flowrate in kg/h - B1
3. Follow curve to right hand scale and across to same flash pressure - C1
4. Move upwards to flash vessel size. Select flash vessel - in this case an FV12 is required.

How to Order :

Example : Size 12 Spirax Marshall Flash Vessel with accessories.

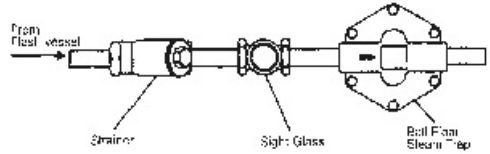
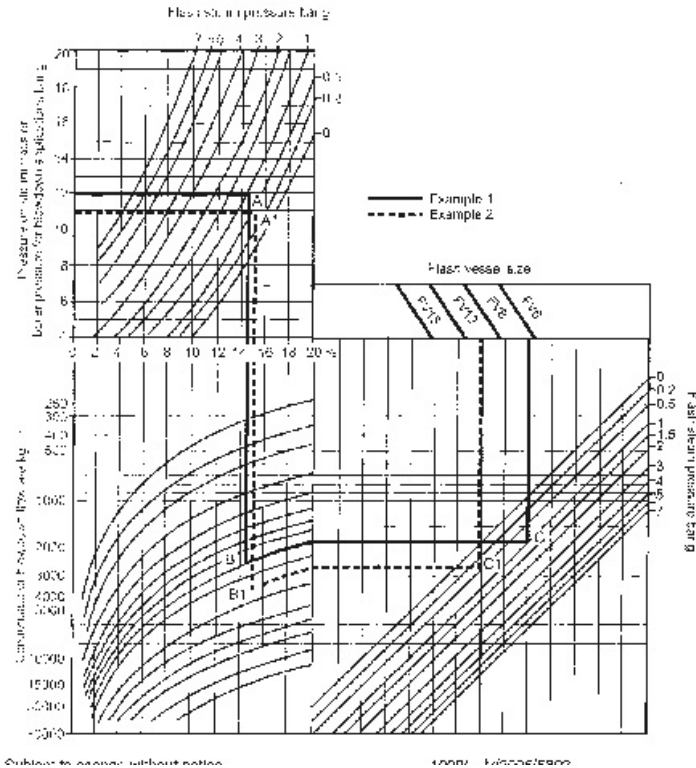


Fig. Showing arrangement only float trap with strainer & sight glass



Subject to cover without valves

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