

**FLASH VESSELS  
RVST  
(With inbuilt steam trap)**

**DESCRIPTION**

The flash vessel is the main component in any flash recovery system. It can be used in all steam plants where high pressure condensate is reduced to a lower pressure, so that flash steam is formed by re-evaporation. This steam can be used in low pressure process or heating equipments.

**MAIN FEATURES**

Several possibilities of installation and special sizes and types available on request.

Inbuilt steam trap.

**OPTIONS:** Complete stainless steel construction.  
Installation supports on body (without supporting feet).

**USE:** High pressure condensate.  
Boiler blowdown heat recovery systems.

**AVAILABLE MODELS:** RVST/S – carbon steel.  
RVST/SS – stainless steel.

**SIZES:** RVST08, RVST12, RVST16, RVST18.

**CONNECTIONS:** Flanged EN 1092-1 PN 16.  
Special flanges upon request.

**INSTALLATION:** Vertical installation.  
Horizontal condensate inlet and outlet.  
See AD (assembly drawing).



CE MARKING – GROUP 2 (PED – European Directive)	
PN 16	Category
RV08	2 (CE marked)
RV12	3 (CE marked)
RV16	3 (CE marked)
RV18	3 (CE marked)

LIMITING CONDITIONS											
RVST/S						RVST/SS					
RATING	ALLOW. PRESS.	RELAT. TEMP.	RATING	ALLOW. PRESS.	RELAT. TEMP.	RATING	ALLOW. PRESS.	RELAT. TEMP.	RATING	ALLOW. PRESS.	RELAT. TEMP.
PN 16 *	16 bar	50 °C	CLASS 150 **	16 bar	50 °C	PN 16 *	16 bar	50 °C	CLASS 150 **	15,3 bar	50 °C
	14 bar	100 °C		14 bar	100 °C		15 bar	100 °C		13,3 bar	100 °C
	13 bar	195 °C		13 bar	195 °C		12,7 bar	200 °C		11,1 bar	200 °C
	12 bar	250 °C		–	–		12 bar	250 °C		–	–

\* Rating according to EN 1092-1:2018; PMO – Maximum operating pressure for saturated steam: 13 bar.

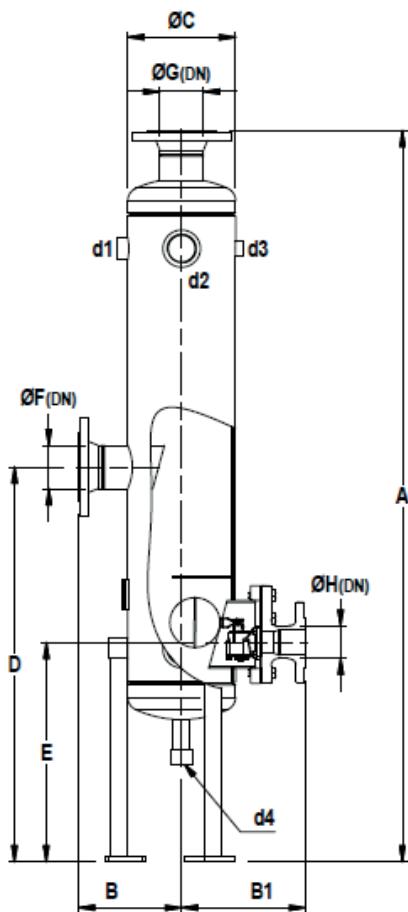
Minimum operating temperature: -10 °C; Design code: AD-Merkblatt.

APPROXIMATE DIMENSIONS (mm) *														
MODEL	A	B	B1	C	D	E	F	G	H	d1	d2	d3	d4	WGT. (kg)
<b>RV08</b>	1500	210	252	220	810	450	80	80	50	1"	2"	1/2"	1"	67
<b>RV12</b>	1540	265	305	325	830	485	100	100	50	1 1/2"	2"	1/2"	1"	102
<b>RV16</b>	1660	310	385	410	930	530	150	150	80	1 1/2"	2"	1/2"	1 1/2"	179
<b>RV18</b>	1610	330	410	460	965	545	150	150	80	2"	2"	1/2"	1 1/2"	197

\* For certified values, consult manufacturer.

Remarks: For the correct selection it is required the condensate flow rate and temperature when arriving to the flash vessel, as well as the flash steam pressure required.

Auxiliary equipment is recommended. Consult manufacturer for correct flash vessel selection and system design, including all the necessary accessories.



MATERIALS		
DESIGNATION	RVST/S	RVST/SS
Heads and shell	P265GH / 1.0425; P235GH / 1.0345	AISI 316 / 1.4401; AISI 316L / 1.4404
Inlet / outlet pipes	P235GH / 1.0345	AISI 316 / 1.4401
EN flanges	P250GH / 1.0460	AISI 316 / 1.4401
ASME flanges	ASTM A105 / 1.0432	AISI 316 / 1.4401
Sockets	ASTM A105 / 1.0432	AISI 316 / 1.4401
Supports	S235JR / 1.0038	AISI 304 / 1.4301
Steam trap mechanism	Stainless steel	Stainless steel
Steam trap cover	P235GH / 1.0305; A216 WCB / 1.0619	AISI 316 / 1.4401; A351 CF8 / 1.4308
Steam trap gasket	Stainless steel / Graphite	Stainless steel / Graphite
Bolts	Steel 8.8	Stainless steel A2-70