

## 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 processes or heating equipment.

### 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 body.  
RVST/SS- stainless steel body.

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

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

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



#### CE MARKING – GROUP 2 (PED – European Directive)

PN16	Category
RV08	2 (CE marked)
RV12	3 (CE marked)
RV16	3 (CE marked)
RV18	3 (CE marked)

#### LIMITING CONDITIONS \*

RVST/S					RVST/SS						
PN16	Pressure (bar)	Temp. (°C)	ANSI 150 lb	Pressure (bar)	Temp. (°C)	PN16	Pressure (bar)	Temp. (°C)	ANSI 150 lb	Pressure (bar)	Temp. (°C)
	16	50		16	50		16	50		16	50
14	100	14	100	16	100	16	100	16	100		
13 **	195	13 **	195	13 **	195	13 **	195	13 **	195		
12	250	–	–	12	250	–	–	–	–		

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

\* Rating according to EN1092-1:2018; \*\* PMO - Maximum operating pressure for saturated steam.

APPROXIMATE DIMENSIONS (mm) \*

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

\* For certified dimensions, consult factory; Other sizes available on request.

**SIZING:** 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 the factory for the correct flash vessel selection and system design, including all the necessary accessories.

MATERIALS		
DESIGNATION	MATERIAL RVST/S	MATERIAL 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
ANSI 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 mech.	Stainless steel	Stainless steel
Steam trap cover	P235GH / 1.0305; ASTM A216 / 1.0619	AISI 316 / 1.4401; CF8 / 1.4308
Steam trap gasket	Stainless steel / Graphite	Stainless steel / Graphite
Bolts	Steel 8.8	A2-70

