

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 on 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)

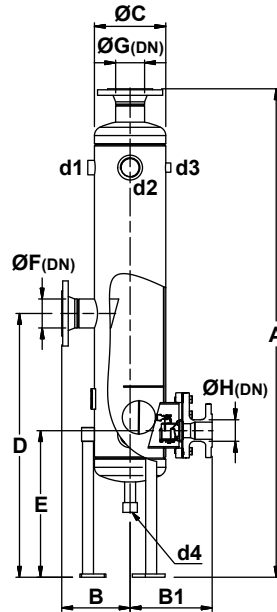
LIMITING CONDITIONS

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.

STEAM TRAP FLOW RATE CAPACITY (kg/h)

MODEL	MAX. ΔP	DIFFERENTIAL PRESSURE (bar)									
		0,1	0,3	0,5	1	1,5	2	4,5	7	10	12
RVST08	4,5	2400	5900	7550	11000	14000	15500	22500	–	–	–
RVST08	10	1800	3000	3900	5000	6100	7100	10000	13750	16000	–
RVST12	4,5	2400	5900	7550	11000	14000	15500	22500	–	–	–
RVST12	10	1800	3000	3900	5000	6100	7100	22500	13750	16000	–
RVST16	12	18800	22700	24500	29000	31000	34000	20250	47000	49500	50000
RVST18	12	18800	22700	24500	29000	31000	34000	42750	47000	49500	50000



APPROXIMATE DIMENSIONS (mm) *

MODEL	A	B	B1	C	D	E	F	G	H	d1	d2	d3	d4	WGT. (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 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