FLASH VESSELS
RV

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).

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

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

AVAILABLE MODELS: RV…A/S; RV…L/S – carbon steel.
RV…A/SS; RV…L/SS – stainless steel.
(A – angle; L – inline connections).

SIZES: RV06, RV08, RV12, RV16 and RV18.

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

INSTALLATION: Vertical installation.
Horizontal condensate inlet and outlet or alternative horizontal inlet and vertical condensate outlet.
See AD (assembly drawing).

RV/A

RV/L

CE MARKING – GROUP 2 (PED – European Directive)	
PN 16	**Category**
RV06	2 (CE marked)
RV08	2 (CE marked)
RV12	3 (CE marked)
RV16	3 (CE marked)
RV18	3 (CE marked)

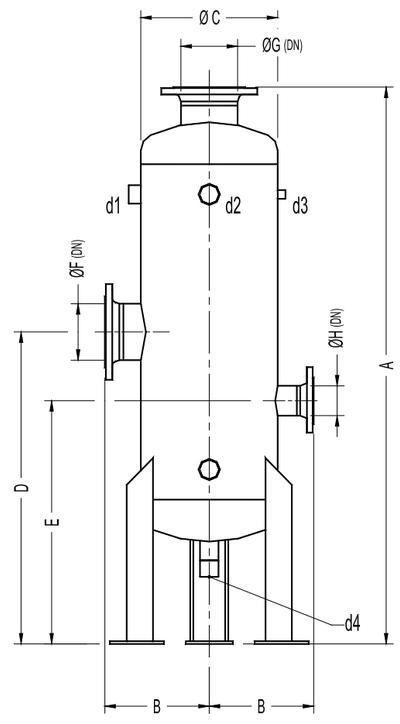
LIMITING CONDITIONS

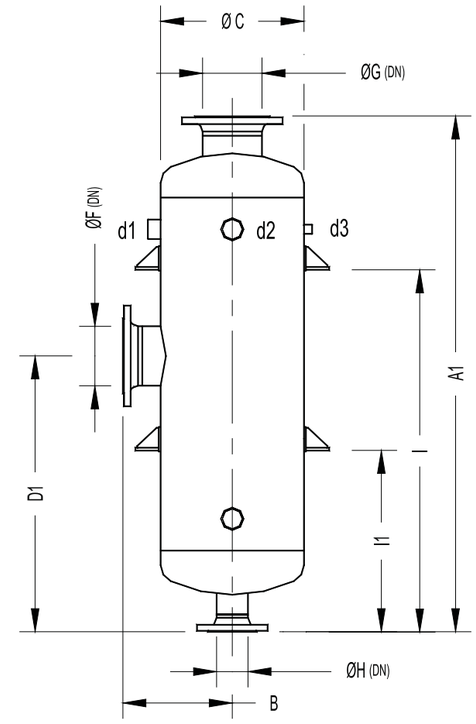
RV/S						RV/SS					
RATING	**ALLOW. PRESS.**	**RELAT. TEMP.**	**RATING**	**ALLOW. PRESS.**	**RELAT. TEMP.**	**RATING**	**ALLOW. PRESS.**	**RELAT. TEMP.**	**RATING**	**ALLOW. PRESS.**	**RELAT. TEMP.**
PN 16 *	16 bar	50 ºC	**CLASS 150 ****	16 bar	50 ºC	**PN 16 ***	16 bar	50 ºC	**CLASS 150 ****	15,3 bar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

* Rating according to EN 1092-1:2018; ** Rating according to EN 1759-1:2004; PMO – Maximum operating pressure for saturated steam: 13 bar.
Minimum operating temperature: -10 ºC; Design code: AD-Merkblatt.

APPROXIMATE DIMENSIONS (mm) *																	
MODEL	**A**	**A1**	**B**	**C**	**D**	**D1**	**E**	**F**	**G**	**H**	**I**	**I1**	**d1**	**d2**	**d3**	**d4**	**WGT. (kg)**
RV06	1400	1200	185	170	800	600	635	50	50	50	853	–	3/4"	2”	1/2"	1”	36
RV08	1500	1300	210	220	810	610	645	80	80	50	908	–	1”	2”	1/2"	1”	56
RV12	1540	1340	265	325	830	630	660	100	100	50	908	–	11/2”	2”	1/2"	1”	92
RV16	1660	1460	310	410	930	730	725	150	150	80	–	480	11/2”	2”	1/2"	11/2”	146
RV18	1610	1410	330	460	965	765	755	150	150	80	–	485	2”	2”	1/2"	11/2”	174

* For certified values and ANSI dimensions, consult manufacturer. Volume and weight refer to AS/SF EN1092-14 PN16 flanged version. Other versions may have slightly different values.
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	**RV/S**	**RV/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

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We reserve the right to change the design and material of this product without notice.

IS 9.702 E 15.15

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)

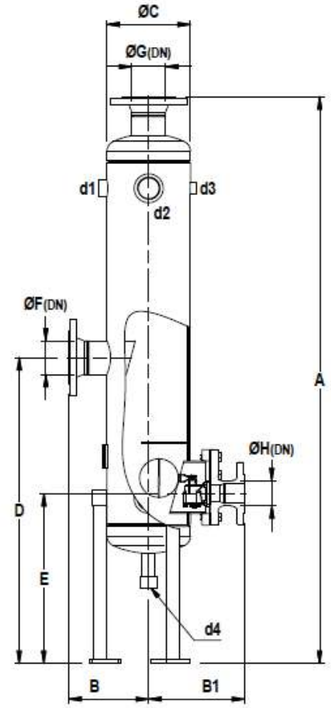
LIMITING CONDITIONS

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 ºC	**CLASS 150 ****	16 bar	50 ºC	**PN 16 ***	16 bar	50 ºC	**CLASS 150 ****	15,3 bar	50 ºC
	14 bar	100 ºC		14 bar	100 ºC		15 bar	100 ºC		13,3 bar	100 ºC
	13 bar	195 ºC		13 bar	195 ºC		12,7 bar	200 ºC		11,1 bar	200 ºC
	12 bar	250 ºC		–	–		12 bar	250 ºC		–	–

* Rating according to EN 1092-1:2018; PMO – Maximum operating pressure for saturated steam: 13 bar.
Minimum operating temperature: -10 ºC; Design code: AD-Merkblatt.

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	11/2”	2”	1/2"	1”	102
RV16	1660	310	385	410	930	530	150	150	80	11/2”	2”	1/2"	11/2”	179
RV18	1610	330	410	460	965	545	150	150	80	2”	2”	1/2"	11/2”	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

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