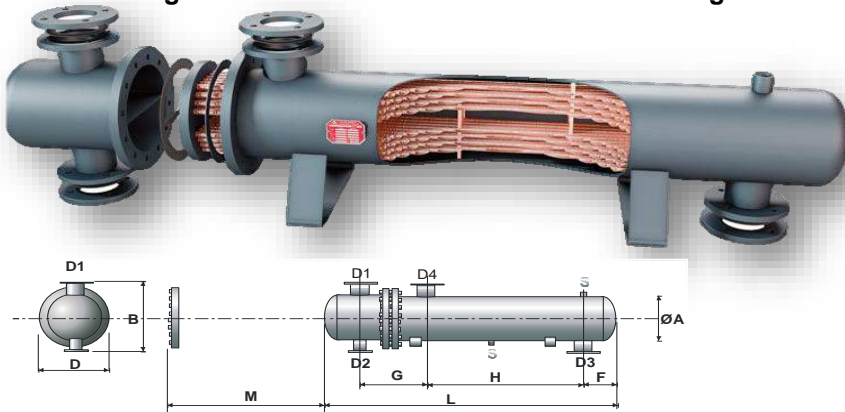


SC 010

SHELL AND PIPE HEAT EXCHANGER

This type of exchanger is to be preferred over others when one needs to exchange very large quantities of heat, because its surfaces can even extend to tens of thousands of square metres. It is made up of a shell and inner pipes expanded or welded to a thick plate. Transversal metal plates may be present in the shell, with the purpose of controlling the hydraulic system and increasing turbulence and therefore the heat exchange coefficient.



please fill the follow Data for a good choice			
Description	Unit	1°	2°
Kind of fluid			
Fluid pressure	bar		
Fluid Unit Weight	γ		
In Temp.	°C		
Out Temp.	°C		
Max Temp	°C		
Capacity	Kg/h		
Flow resistance	m.w.c		
Power	Kcal/h		

SC 030

HEAT EXCHANGER WITH CORRUGATED PIPE

- FIELDS APPLICATION** : It's used in heat exchange between medium viscosity products even in the presence of small suspended particulates
- CORRUGATION** : It's a process made on the smooth pipe in order to obtain a turbulence with a higher exchange surface. The increase in exchange rates varies from 40% to 90%
- MATERIALS** : AISI 304 - AISI 316 - others on request
- PRESSURE NOMINAL** : PN 10 - PN 16
- TEMPERATURE** : from +193°C upto +210°C
- CONNECTION** : UNI - DIN - ANSI flanges
- BENEFITS** : Heat transfer surfaces reduction
: Contact time reduction
: Faster washing or easy to clean
: Both horizontal or vertical installation
: no gaskets = lower maintenance costs
: May be use in high conditions of pressure and temperature



SC 050

GASKETED PLATE HEAT EXCHANGERS

The plate exchanger is made up of a variable number of steel perforated plates. The primary fluid flows inside of half of each plate, the secondary fluid flows to the other half of each plate.

There are two different types of trade on the market, with brazed plates and interchangeable plates. Generally assembled with tie rods, interchangeable plate models allow inspection and maintenance.

BENEFITS

- small dimensions
- higher heat exchange
- higher upstream levels
- cheaper
- modular
- you can dismantle it so it is easier to clean

 Downsides

- lower temperature
- lower pressure
- surfaces get dirty easily



The welded models offer better performance and higher pressures

5.75

HEATING COILS AND EXCHANGERS

Valvoid

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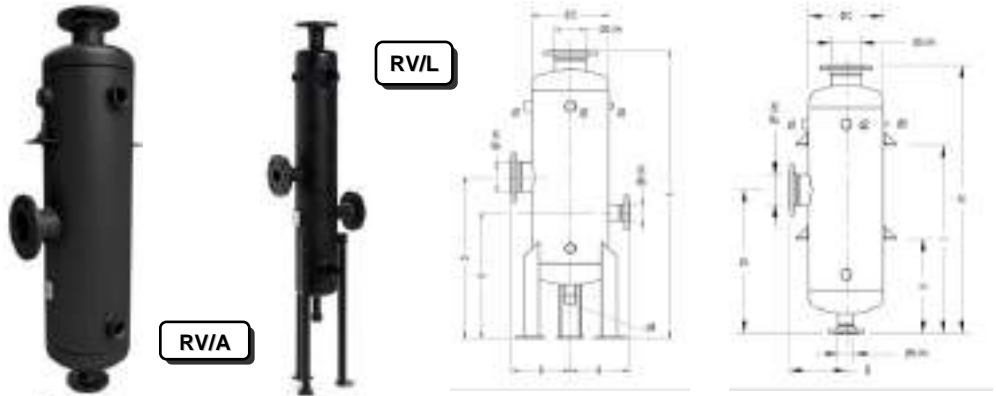
VALVOID Srl Via Pascoli, 5 - 24060 Bagnatica (Bergamo) Tel. 035.681919-Fax. 035.684461

RV

FLASH VESSELS

SEE AVAILABLE MODELS

- OPTIONS**
Complete stainless steel construction.
Installation supports on body (without supporting feet).
- USE**
High pressure condensate.
Boiler blowdown heat recovery systems.
- MODELS**
RV...A/S; RV...L/S - carbon steel body.
RV...A/SS; RV...L/SS - st. steel body.
(A-angle; L-inline connections)
- CONNECTIONS**
Flanged EN 1092-1 PN 16
Special flanges upon request.
- INSTALLATION**
Vertical installation.
Horizontal condensate inlet and outlet or alternative horizontal inlet and vertical condensate outlet.
See AD (Assembling drawing)



CE MARKING (PED - European Directive)		
RATING	SIZE	CAT.
PN16	RV06	2
	RV08	2
	RV12	3
	RV18	3

APPROXIMATE DIMENSIONS (mm)																		
FLANGED EN 1092-1 - ANSI																		
MODEL	A	A1	B	C	D	D1	E	F	G	H	I	J	K	d1	d2	d3	d4	WGT Kg
RV 06	1400	1200	185	170	600	600	635	90	60	60	850	-	3/4"	2"	1/2"	1"	96	
RV 08	1600	1300	210	220	810	810	645	80	80	80	908	-	1"	2"	1/2"	1"	96	
RV 12	1540	1340	265	325	630	630	660	100	100	60	908	-	1 1/2"	2"	1/2"	1"	92	
RV 16	1660	1460	310	410	630	730	725	150	150	80	990	-	1 1/2"	2"	1/2"	1 1/2"	148	
RV 18	1610	1410	330	490	665	765	755	150	150	80	-	485	2"	2"	1/2"	1 1/2"	174	

CE Marking: This product has been designed for use on water, steam, air and other gases which are in Group 2 of the European PED-Pressure Equipment Directive in use and it complies with those requirements.
The product carries the CE mark when taking in category 1 and above.

MATERIALS		
DESIGNATION	RVST/S	RVST/SS
Heads and shell	P235GH / 1.0425 ; P235GH / 1.0305	A5016 / 1.4301 ; A5016L / 1.4404
Inlet / Outlet pipes	P235GH / 1.0305	A5016 / 1.4401
DN flanges	P260GH / 1.0480	A5016 / 1.4401
ANSI Flanges	ASTMA 105 / 1.0432	A5016 / 1.4401
Sockets	ASTMA 105 / 1.0432	A5016 / 1.4401
Supports	S235JR / 1.0036	A5016 / 1.4301

LIMITING CONDITIONS**														
Rating	RV/S			RV/SS			Rating	RV/SS			Rating	RV/SS		
	Press. bar	Temp. °C		Press. bar	Temp. °C			Press. bar	Temp. °C			Press. bar	Temp. °C	
PN16	16	50		16	50		PN16	16	50		PN16	16	50	
	16	100		14	100			16	100			16	100	
	13*	195	CL 150 lb	13*	195			13*	195	CL 150 lb		13*	195	
	12	250		-	-			12	250			-	-	

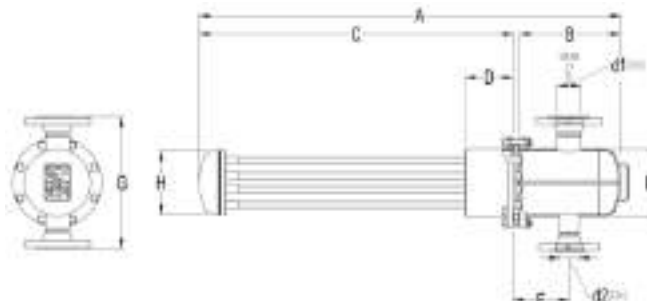
**PN16-Max operating pressure for saturated steam. Minimum operating temp. -10°C. Design code: AD-Nerkibat.
** Rating according to EN1092:2007.

R

ADCATHERM - R Series
Tubular Heating Coils
(Steam to water)

SEE AVAILABLE MODELS

- OPTIONS**
Special designs.
- USE**
Steam, water, hot condensate and other fluids compatible with the construction.
- MODELS**
R5, R6, R8 and R10
- CONNECTIONS**
Flanged according to EN 1092-1 or ANSI standards.
Screwed on request.
- INSTALLATION**
Horizontally on vertical or horizontal vessels.
Steam runs inside the tubes and process water outside.



MATERIALS	
DESIGNATION	MATERIAL
Tube bundle	A5016L / 1.4404
Tube sheet	A5016 / 1.4401
Heads	S235JRG2 / 1.0036 ; P235GH / 1.0305
Inlet / Outlet pipes	P235GH / 1.0305
DN flanges	P260GH / 1.0480
ANSI Flanges	ASTMA 105 / 1.0432
Sockets	ASTMA 105 / 1.0432
Supports	S235JRG2 / 1.0036

EN 10204 3.1 certificate available if requested with the order.

CE MARKING - GROUP 2 GASES CATEGORIES		
RATING	MODEL	CAT.
PN16	R5.075 to R5.150	1
	R6.075 to R6.150	1
	R8.075 to R8.150	2
	R10.075 to R10.150	2

CE Marking: This product has been designed for use on water and steam which are in Group 2 of the PED-European Pressure Equipment Directive 97/23/EC and it complies with those requirements. The product carries the CE mark.

DIMENSIONS										
Model	A	B	C	D	E	F	G	H	d1	d2
R5.075	1010	234	762	120	139	145	340	128	40	25
R5.100	1290	234	1012	120	139	145	340	128	40	25
R5.150	1790	234	1512	120	139	145	340	128	40	25
R6.075	1040	254	770	120	168	145	368	157	65	40
R6.100	1290	254	1020	120	168	145	368	157	65	40
R6.150	1790	254	1520	120	168	145	368	157	65	40
R8.075	1090	264	780	130	220	145	420	204	80	50
R8.100	1310	264	1030	130	220	145	420	204	80	50
R8.150	1810	264	1530	130	220	145	420	204	80	50
R10.075	1097	304	775	130	273	145	473	257	80	50
R10.100	1347	304	1025	130	273	145	473	257	80	50
R10.150	1847	304	1525	130	273	145	473	257	80	50

LIMITING CONDITIONS**						
Rating	Press. bar	Temp. °C	Rating	Press. bar	Temp. °C	
PN16	16	50	PN16	16	50	
	16	100		14	100	
	13*	195		CL 150 lb	13*	195
	12	250		-	-	-

**PN16-Max operating pressure for saturated steam. Minimum operating temp. -10°C. Design code: AD-Nerkibat.
** Rating according to EN1092:2007.

d1 and d2 connections sized according with the flow conditions.
Dimensions are subject to change without notice.
Since each coil is built to suit specific plant requirements please consult factory for certified dimensions and weight.
Other sizes and designs can be supplied under request.

5.76

HEATING COILS AND EXCHANGERS

Valvoid

valvole industriali

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STS

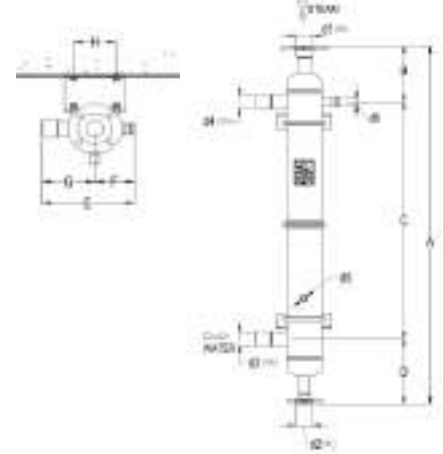
ADCATHERM - STS Series SHELL AND TUBE HEAT EXCHANGERS (Steam to water - Vertical installation)

SEE AVAILABLE MODELS

- OPTIONS: Horizontal installation
USE: Steam, water, hot condensate and other fluids compatible with the construction.
MODELS: STSV - Vertical installation, STSH - Horizontal installation (optional)
INSTALLATION: Vertical or horizontal (different condensate heads execution).



Table with CE MARKING - GROUP 2 GASES CATEGORIES, RATING, MODEL, CATEGORY, and LIMITING CONDITIONS (Tube and shell).



CE Marking: This product has been designed for use on water and steam which are in Group 2 of the PED-European Pressure Equipment Directive...

* PNEU max operating pressure for saturated steam. Minimum operating temp.: -10°C. Design code: AD-Merkat1 ** Rating according to EN10629:2007.

Table with DIMENSIONS columns (Model, A, B, C, D, E, F, G, H, d1, d2, d3, d4, d5, d6) for various STSV models.

Table with MATERIALS columns (DESIGNATION, MATERIAL) for Tube bundle, Tubesheet, Heads and shell, etc.

EN 10204 3.1 certificate available if requested with the order. All 316L, 1.4404 on request.

* Connectors shown are only indicative. Final sizes will be attributed after order and considering the effective low rates.

STH

ADCATHERM - STH Series Shell and Tube Heat Exchangers (Steam to water - Horizontal installation)

VEDERE MODELLI DISPONIBILI

- OPTIONS: Horizontal installation
USE: Steam, water, hot condensate and other fluids compatible with the construction.
MODELS: STSH - Horizontal installation (optional)
INSTALLATION: Vertical or horizontal (different condensate heads execution)

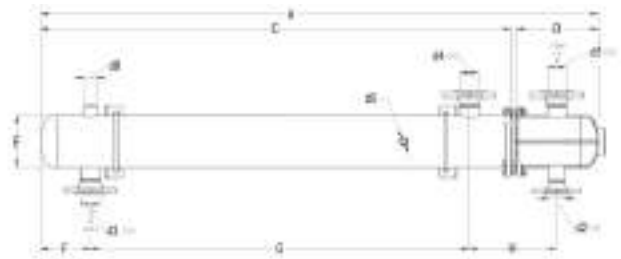


Table with CE MARKING - GROUP 2 GASES CATEGORIES, RATING, MODEL, CATEGORY, and LIMITING CONDITIONS.

CE Marking: This product has been designed for use on water and steam which are in Group 2 of the PED-European Pressure Equipment Directive...

Table with LIMITING CONDITIONS (Rating, Press. bar, Temp. °C).

* PNEU max operating pressure for saturated steam. Minimum operating temp.: -10°C. Design code: AD-Merkat1 ** Rating according to EN10629:2007.

Table with MATERIALS columns (DESIGNATION, MATERIAL) for Tube bundle, Tubesheet, etc.

Table with DIMENSIONS columns (Model, A, C, D, E, F, G, H, I, J, d1, d2, d3, d4, d5, d6) for various STH models.

EN 10204 3.1 certificate available if requested with the order.

STV

ADCATHERM - STV Series
Shell and Tube Heat Exchangers
(Steam to water - Vertical installation)
VEDERE MODELLI
DISPONIBILI
OPTIONS
 Horizontal installation, see STH catalogue.

USE
 Steam, water, hot condensate and other fluids compatible with the construction.

MODELS
 STV/S – Carbon steel shell
 STV/SS – Complete st. steel

CONNECTIONS
 Flanged or screwed, according to EN 1092-1 or ANSI standards.

INSTALLATION
 Wall mounting or floor with special supports.
 Steam runs inside the tubes and process water outside.

MATERIALS		
DESIGNATION	STV/S	STV/SS
Tube bundle	AISI316L / 1.4404	AISI316L / 1.4404
Tube sheet	AISI316 / 1.4401	AISI316 / 1.4401
Heads and shell	S235 JRG2 / 1.0038 ; P235GH / 1.0305	AISI316 / 1.4401; AISI316L / 1.4404
Inlet / Outlet pipes	P235GH / 1.0305	AISI316 / 1.4401
EN flanges	P250GH / 1.0460	AISI316 / 1.4401
ANSI Flanges	ASTMA105 / 1.0432	AISI316 / 1.4401
Sockets	ASTMA105 / 1.0432	AISI316 / 1.4401
Supports	S235 JRG2 / 1.0038	AISI304 / 1.4301

EN 10204 3.1 certificate available if requested with the order.

CE MARKING - GROUP 2 GASES CATEGORIES			
RATING	MODEL	CATEGORY Tube side	CATEGORY Shell side
PN16	STV4.075 to 4.150	1	SEP
	STV5.075 to 5.150	1	SEP
	STV6.075 to 6.150	1	SEP
	STV8.075 to 8.150	2	SEP
	STV10.075 to 10.150	2	SEP
	STV12.075 to 12.150	2	SEP

CE Marking :

This product has been designed for use on water and steam which are in Group 2 of the PED-European Pressure Equipment Directive - 97/23/EC and it comply with those requirements.

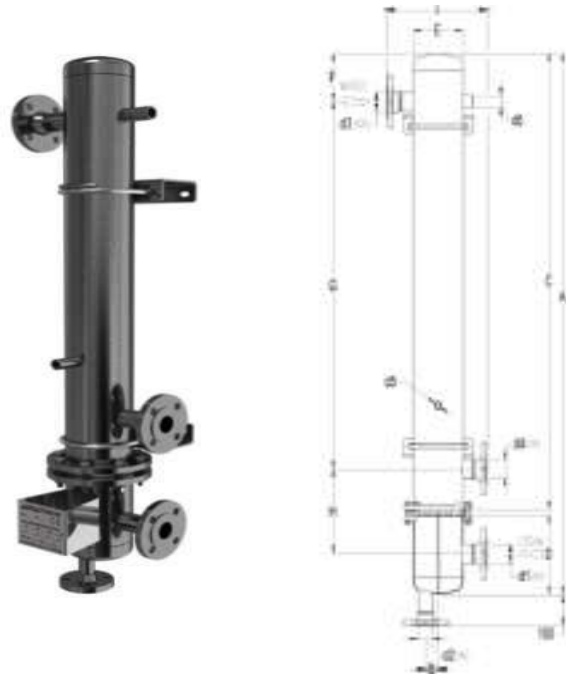
The product carries the CE mark.

LIMITING CONDITIONS **					
Rating	Press. bar	Temp. °C	Rating	Press. bar	Temp. °C
PN16	16	50	ANSI Cl 150 lbs	16	50
	14	100		14	100
	13 *	185		13 *	195
	12	250		-	-

*PMO-Max operating pressure for saturated steam.

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

** Rating according to EN1092:2007.



DIMENSIONS															
Model	A	B	C	D	E	F	G	H	I	d1	d2	d3	d4	d5	d6
STV4.075	965	28	785	166	114	120	550	207	314	50	25	50	50	1/2"	3/4"
STV4.100	1215	28	1035	166	114	120	800	207	314	50	25	50	50	1/2"	3/4"
STV4.150	1716	28	1536	166	114	120	1300	207	314	50	25	50	50	1/2"	3/4"
STV5.075	1050	35	790	245	140	160	510	276	340	65	40	65	65	1/2"	3/4"
STV5.100	1300	35	1040	245	140	160	760	276	340	65	40	65	65	1/2"	3/4"
STV5.150	1800	35	1540	245	140	160	1260	276	340	65	40	65	65	1/2"	3/4"
STV6.075	1093	40	820	255	168	180	500	288	368	65	40	65	65	1/2"	3/4"
STV6.100	1343	40	1070	255	168	180	750	288	368	65	40	65	65	1/2"	3/4"
STV6.150	1843	40	1570	255	168	180	1250	288	368	65	40	65	65	1/2"	3/4"
STV8.075	1176	55	840	320	220	197	487	304	420	80	50	80	80	1/2"	1"
STV8.100	1426	55	1090	320	220	197	737	304	420	80	50	80	80	1/2"	1"
STV8.150	1926	55	1590	320	220	197	1237	304	420	80	50	80	80	1/2"	1"
STV10.075	1185	60	855	306	273	205	448	356	473	80	50	80	80	1/2"	1"
STV10.100	1435	60	1105	306	273	205	698	356	473	80	50	80	80	1/2"	1"
STV10.150	1935	60	1605	306	273	205	1198	356	473	80	50	80	80	1/2"	1"
STV12.075	1307	80	877	407	324	277	400	430	540	100	50	100	100	1/2"	1"
STV12.100	1557	80	1127	407	324	277	650	430	540	100	50	100	100	1/2"	1"
STV12.150	2057	80	1627	407	324	277	1150	430	540	100	50	100	100	1/2"	1"

∅ d1 to d4 connections sized according with the flow conditions.

Dimensions are subject to change without notice.

Consult factory for certified dimensions and weight.

Other sizes and designs can be supplied under request.

The pipe connections are sized considering the correct thermal insulation possibility. The insulation if's not included but it is recommended to be done after the installation.