

## HUMIDITY SEPARATORS Clean Steam Separator S-10H ( Horizontal connections – Baffle design )

### DESCRIPTION

When wet steam is used in sterilization, moisture in suspension reduces the heat transfer efficiency and the validity of the sterilization process can be compromised.

S-10H series baffle separators remove moisture from steam pipelines. Steam passing through the separator and as a result expansion, impact and swirling effects, separate the particles with a heavier specific gravity, such as water droplets and moisture in suspension.

The condensate collected at the bottom of the separator, must be automatically drained by a suitable steam trap.

### MAIN FEATURES

316L stainless steel construction

No moving parts.

Self draining design.

STANDARD SURFACE FINISH

Internal parts: ≤ 0,5 microns Ra

External : Satin bead blast finish – 1,6 microns Ra

Mechanical polished as option

### OPTIONS:

Different kind of connections and dimensions

### USE:

Steam, compressed air and other gases (Group 2).

### AVAILABLE MODELS:

S10H

### SIZES:

DN1/2" to 3"

### PIPE CONNECTIONS:

Clamped ends ASME BPE

Other sanitary clamp or tube weld connections available on request.

### PACKAGING:

Assembling and packaging in a clean room certified according to ISO 14644-1.

The product is end capped and vacuum sealed with recyclable plastic film to avoid contamination.

### INSTALLATION:

Always with the condensate discharge pointing downwards. See IMI, installation and maintenance instructions.

### HOW TO SELECT:

Generally, in an existing plant it is advisable to fit a separator with the same size of the pipe line. Pressure drop is normally negligible. For approximate pressure drop calculation please consult.

CE MARKING (PED - European Directive)	
PN 10	Category
DN1/2" to DN2"	SEP
DN2 1/2" - DN3"	1

**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 falling in category 1 and above.

**VALSTEAM ADCA**



LIMITING CONDITIONS		
Rating	Press. bar	Temp. °C
PN10	10	50
	8 *	175
	7,4	200

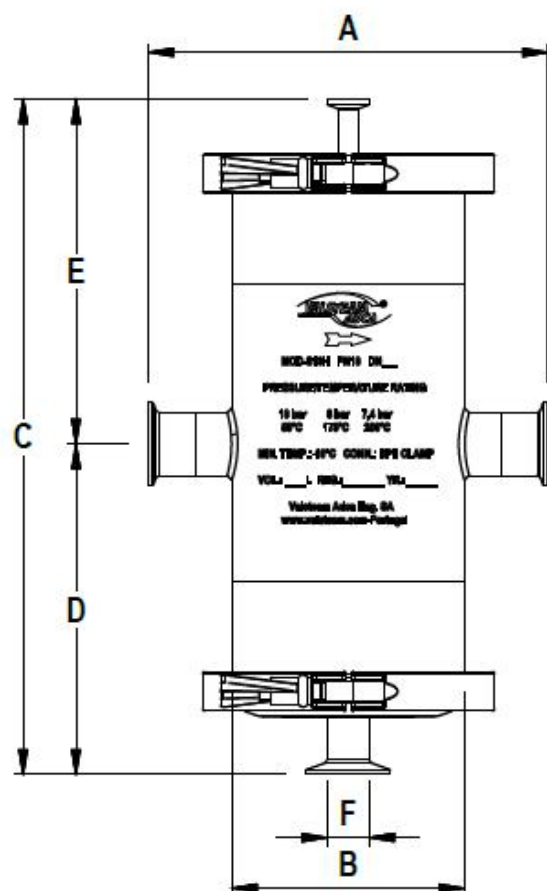
\*PMO-Max.operating pressure for saturated steam.

Minimum operating temp.: -10°C.

Design code: AD-Merkblatt

APPROXIMATE DIMENSIONS (mm)								
SIZE DN	A	B	C	D	E	F	VOL. dm3	WGT Kg
1/2"	210	114	340	165	175	1"	2,4	5
3/4"	210	114	340	165	175	1"	2,4	5
1"	210	114	340	165	175	1"	2,4	5,1
1 1/2"	240	140	410	200	210	1"	4,7	9,6
2"	240	140	410	200	210	1"	4,7	9,6
2 1/2"	270	168	478	235	243	1"	8,4	13,7
3"	270	168	478	235	243	1"	8,6	13,8

Consult factory for certified dimensions. Dimensions subject to change without notice.



MATERIALS		
POS.	DESIGNATION	MATERIAL
1	Body	Al SI 316L / 1.4404
2	Cover	Al SI 316L / 1.4404
3	*Clamp	Al SI 316L / 1.4404
4	*Seal	VITON
5	Internals	Al SI 316L / 1.4404

\* Available spare parts.

EN10204 3.1 certificate available if requested along with the order.

Remarks: FDA/USP Class VI seals certificate on request.

All separators have a serial number. In case of non-standard separator this number must be supplied if spare parts are ordered.

