

## 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 passes 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 wetted parts:  $\leq 0,51$  micron Ra – SF1.

External : Satin bead blast finish – 1,6 micron Ra.

Other surface conditions see IS PV20.00-Technical information.

**OPTIONS:** Different kinds of connections and dimensions.

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

**AVAILABLE MODELS:** S10H

**SIZES:** 1/2" 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
1/2" to 2"	SEP
2 1/2" - 3"	1

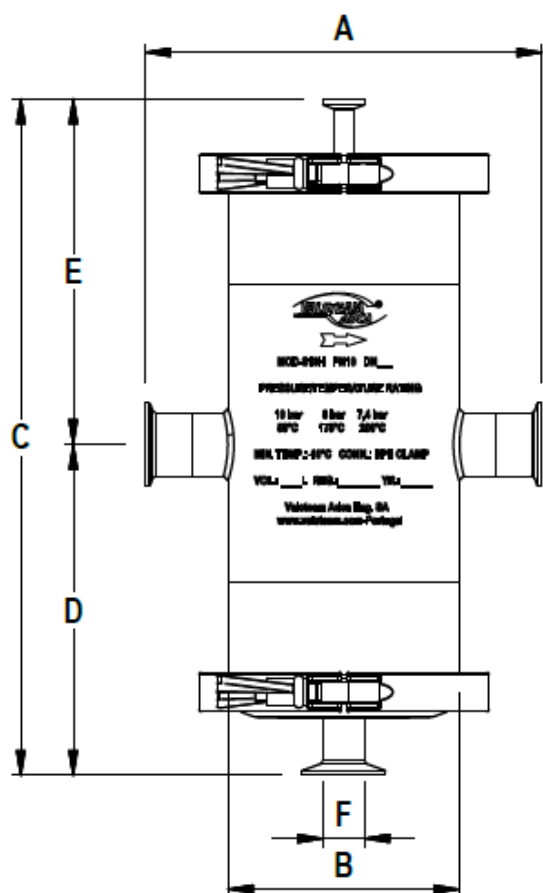
LIMITING CONDITIONS		
Rating	Press. bar	Temp. °C
PN10	10	50
	8 *	175
	7,4	200

\*PMO-Max.operating pressure for saturated steam.  
Minimum operating temp.: -10°C.  
Design code: AD-Merkblatt

**APPROXIMATE DIMENSIONS (mm)**

SIZE	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	AISI 316L / 1.4404
2	Cover	AISI 316L / 1.4404
3	*Clamp	AISI 316L / 1.4404
4	*Seal	VITON
5	Internals	AISI 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.

