

DESCRIPTION

LRQ/ CERTIFIED

ISO 9001

The SAV10 sanitary air vent is a self-acting valve designed for air venting applications with liquids.

The valve closes when filled with liquid product. As the level falls, the valve opens if pressure is also relieved. The valve does not open under operating pressure, thus being mostly used as a start-up bleeding valve. Typical applications include air venting in CIP lines, tanks, high points in pipelines, amongst others.

Specifically designed for hygienic systems found in the pharmaceutical, cosmetic, fine chemical and food & beverage processes.

MAIN FEATURES

Compact and easy to install. Springless design. Complete 316L stainless steel construction, including float. Different models available depending on the intended application.

STANDARD SURFACE FINISH

Internal wetted parts: $\leq 0,51$ micron Ra – SF1. External: $\leq 0,76$ micron Ra – SF3. Other surface conditions see IS PV20.00 E - Technical information. Ultrasonic cleaning.

USE: Water and other liquids compatible with the construction. **AVAILABLE**

MODELS: SAV10 - soft upper seat; metal lower seat. SAV10D - soft upper and lower seats. SAV10CK - soft upper seat; grooved lower seat.

- SIZES: 1" x 3/4" and 1" x 1".
- CONNECTIONS: ASME BPE clamp ferrules. Others on request.
- PACKAGING: Assembling and packaging in a clean room certified according to ISO 14644-1. The product is end capped and sealed with recyclable thermo-shrinkable plastic film, to avoid contamination.
- **INSTALLATION:** Vertical installation. See IMI - Installation and maintenance instructions.

CE MARKING – GROUP 2 (PED – European Directive)				
Size	Category			
All sizes	SEP			

LIMITING CONDITIONS							
Body design conditions	PN 10						
Maximum operating pressure	10 bar						
Maximum operating temperature *	150 °C						
Minimum operating temperature	-10 °C						
* Others on request.							

Min. liquid specific weight: 0,75 kg/dm³













FLOW RATE CAPACITY (NL/min)											
MODEL	DIFFERENTIAL PRESSURE (bar)										
MODEL	0,5	1	2	3	4	5	6	7	8	9	10
SAV10	470	698	1086	1451	1812	2174	2536	2897	3259	3620	3982

Values shown refer to capacities of air discharge at 15 °C, under average atmospheric pressure (1013 mbar). If the temperature of the air differs from 15 °C, the discharge capacity can be corrected by multiplying it by: temperature in °C.

288 , where T is the actual 273 + T

It may be assumed that the temperature of the air is equal to the temperature of the liquid.

OPERATION

The SAV10 air vents are composed of a stainless steel valve body and cover and a free-moving stainless steel ball float.

When the system is starting up, the valve vents air to the outlet. As pressure increases and the product level rises, the float becomes buoyant and closes the valve once it reaches the upper soft seat. When the product level falls, the valve will only open and vent excess air once the pressure is also relieved.

Three different models are available, distinguishable by the design of the lower seat in the body.

The SAV10 is the standard unit, with a metal-sealed lower seat. As such, when the ball float rests on the lower seat (metal-to-metal contact), some air may be permitted to re-enter the system, either while the system is depressurized or in the case of vacuum.

The SAV10D features a lower seat with soft sealing, which prevents backflow of air into the system, thus preventing possible contamination when the system is depressurized or in case of vacuum.

The SAV10CK features a grooved body. As such, when the float rests on the lower seat, air is permitted to flow, in either direction, through the grooves. It was designed for applications where air should be allowed to flow freely in and out of the system, while the product must be kept inside.



SAV10



SAV10D



SAV10CK

VALSTEAM **JDCJ**





DIMENSIONS (mm) ASME BPE							
SIZE	А	ØB	ØF	ØF1	ØН	ØH1	WEIGHT (kg)
1" x 3/4"	81,7	76,5	50,5	25	22,1	15,75	0,75
1" x 1"	81,7	76,5	50,5	50,5	22,1	22,1	0,80



MATERIALS						
POS. Nº	DESIGNATION	MATERIAL				
1	Body	AISI 316L / 1.4404				
2	Cover	AISI 316L / 1.4404				
3	Float	AISI 316L / 1.4404				
4	* O-ring	** EPDM; FPM; FFKM				
5	* O-ring (SAV10D)	** EPDM; FPM; FFKM				
6	* Gasket	** Glass microsphere filled PTFE				
7	Safety clamp	AISI 316 / 1.4401				

* Available spare parts; ** Others on request.

VALSTEAM **ADCA**

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