

# AUTOMATIC AIR VENT

MODEL VS3-P Clean Air Vent STAINLESS STEEL

#### SANITARY AUTOMATIC AIR VENT FOR LIQUID SYSTEMS

#### **Features**

Float-type mechanical valve recommended for venting air in purified water and other liquid systems such as in the pharmaceutical, biotechnology, and cosmetics industries.

- 1. Precision-ground float, three-point seating and valve seat with rubber contact ensure superior sealing.
- Only one moving part, the free float, prevents concentrated wear and provides long service life.
- 3. Internal buff-polishing with an additional interior and exterior electro-polish option to 0.4 µm Ra for improved resistance to bacterial growth.
- 4. Maintainable design lowers cleaning costs.
- 5. Dual function as air vent and vacuum breaker.



## **Specifications**

Model		VS3-E*	VS3-P	VS3-EP*		
Connection		Clamp End				
Size		DN 15, 20 (ISO) 3/4" (ASME-BPE)				
Maximum Operating Pressure (barg) PMO		6				
Maximum Differential Pressure (	bar) ∆PMX	6				
Maximum Operating Temperature (°C) TMO		150				
Clamp type		3-piece (buff-polished)				
Finishing**	Internal	25 µm Ra electro-polished	0.8 µm Ra buff-polished	Buff-polished then 0.4 µm Ra electro-polished		
rinishing	External	25 µm na electro-polistied	25 µm Ra electro-polished			
Applicable Fluid***		Water, Other Liquids (Specific gravity must be at least 0.8)				

<sup>\*</sup> Option \*\* Treated base surfaces are lost-wax cast \*\*\* Do not use for toxic, flammable or otherwise hazardous fluids.

PRESSURE SHELL DESIGN CONDITIONS (**NOT** OPERATING CONDITIONS): Maximum Allowable Pressure (barg) PMA: 10

Maximum Allowable Temperature (°C) TMA: 185

1 bar = 0.1 MPa

CAUTION

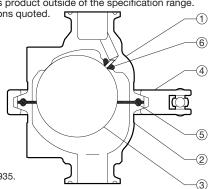
To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted.

No.	Description	Material	DIN*	ASTM/AISI*
1	Body	Cast Stainless Steel A351 Gr.CF3M	1.4435	_
2	Cover	Cast Stainless Steel A351 Gr.CF3M	1.4435	_
3	Float	Stainless Steel SUS316L	1.4404	AISI316L
4	Body Clamp	Cast Stainless Steel A351 Gr.CF8	1.4312	_
5	Cover Gasket**	High-performance Fluorine Resin	_	_
6	Valve Seat***	Silicone Rubber	_	_

<sup>\*</sup> Equivalent

<sup>\*\*</sup> The valve seat affixed to the body using RTV silicone rubber complies with FDA 21 CFR 177. 2600.

Material certificates to ISO 10474 2.2 or 3.1B available for major components, contact TLV for details.



<sup>\*\*</sup> Cover gasket is GYLON BIO-PRO; complies with FDA 21 CFR 177. 1550, USP Class VI and EN 1935. GYLON BIO-PRO is a registered trademark of Garlock GmbH.

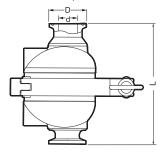


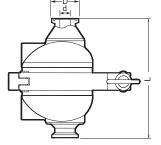
## **Consulting & Engineering Service**

## **Dimensions**

#### ● VS3-P Clamp End

ISO 2852 Clamp / ISO 2037 Tube ASME-BPE (Tri-Clamp Compatible)

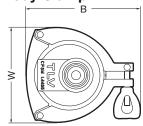




VS3-P Clamp End*							(mm)		
	DN	L	W**	B**	φD	φd	Weight (kg)		
	15	105	105	125	34	15.2	1.4		
	20 (3/4")				34 (25)	19.3 (15.75)	1.4 (1.3)		

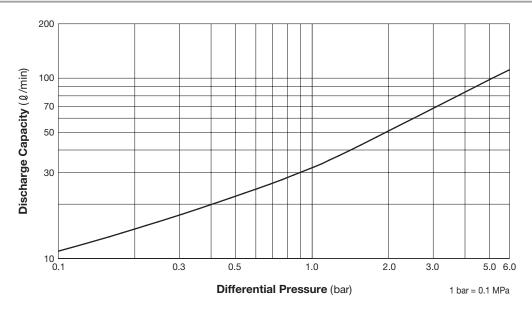
- \* ISO 2852 Clamp / ISO 2037 Tube or ASME-BPE (Tri-Clamp compatible)
- \*\* Approximate dimensions
- () ASME-BPE (Tri-Clamp compatible)

### Body Clamp



Tri-Clamp is a registered trademark of Alfa Laval Corporate AB.

## **Discharge Capacity**



- 1. Differential pressure is the difference between the inlet and outlet pressure of the air vent.
- 2. Capacities are equivalent capacities of air at 20 °C under atmospheric pressure.



Air vents used under conditions which exceed maximum differential pressure will fail closed.



