# **AUTOMATIC** AIR VENT

MODEL VS3-P Clean Air Vent

#### SANITARY AUTOMATIC AIR VENT FOR LIQUID SYSTEMS

#### Features

TLV

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.
- 2. 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  $0.4 \mu m$  Ra for improved resistance to bacterial growth.
- 4. Maintainable design lowers cleaning costs.
- 5. Dual function as air vent and vacuum breaker.



STAINLESS STEEL

## **Specifications**

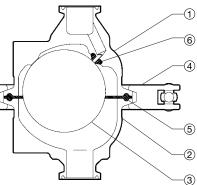
Model		VS3-E*	VS3-P	VS3-EP*		
Connection		Clamp End				
Size		DN 15, 20 (ISO) 3/4" (ASME-BPE)				
Maximum Operating Pres	ssure (barg) PMO	6				
Maximum Differential Pressure (bar) ΔPMX		6				
Maximum Operating Temperature (°C) TMO		100				
Clamp type		3-piece (buff-polished)				
Finishing**	Internal	$25 \mu m$ Ra electro-polished	$0.8 \mu m$ Ra buff-polished	Buff-polished then		
Finishing**	External	$25\mu$ m na electro-polistieu	$25 \mu m$ Ra electro-polished	0.4µm Ra electro-polished		
Applicable Fluid***		Water, Other Liquids (Specific gravity must be at least 0.8)				

\* 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 1 bar = 0.1 MPa

Maximum Allowable Temperature (°C) TMA: 185

To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. CAUTION 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	_	—



\* Equivalent

\*\* 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. 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.

# TLV

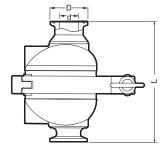
# **Consulting & Engineering Service**

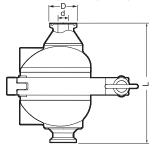
(mm)

# **Dimensions**

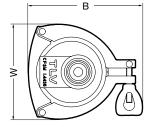
### • VS3-P Clamp End

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



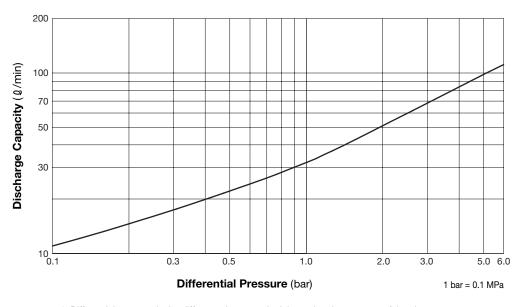


#### Body Clamp



Tri-Clamp is a registered trademark of Tri-Clover Inc.

# **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 CAUTION will fail closed.

Manufacturer

Kakogawa, Japan is approved by LRQA Ltd. to ISO 9001/14001

8 CO., LTD.



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#### VS3-P Clamp End\*

DN	L	B**	W**	D	¢d	Weight (kg)
15	105	105	125 105	34	15.2	1.4
20 (¾")		120		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)