AUTOMATIC AIR VENT

MODEL VC

AUTOMATIC AIR VENT FOR WATER SYSTEMS

Benefits

Float-type mechanical valve for venting air automatically from water piping systems at start-up and during operation for moderate to hot water.

1. Combination of float and valve seat with rubber contact provides automatic discharge and assures seal tightness when vent is closed.
2. Only one moving part, the float, eliminates concentrated wear and provides long maintenance-free service life.
3. Facilitates drainage of the system by introducing air when the system has to be drained.
4. Dual function as air vent and vacuum breaker.

Specifications

Model		VC2	VC4
Body Material		Bronze	Cast Iron
Connection		Screwed	
Size (in)	Inlet	½	1
	Outlet	3/8	
Maximum Operating Pressure (psig)	PMO	75	150
Minimum Operating Pressure (psig)		7	15
Maximum Operating Temperature (°F)	TMO	194	
Maximum Allowable Pressure (psig)	PMA	75	150
Maximum Allowable Temperature (°F)	TMA	365	302
Applicable Fluid*		Water	

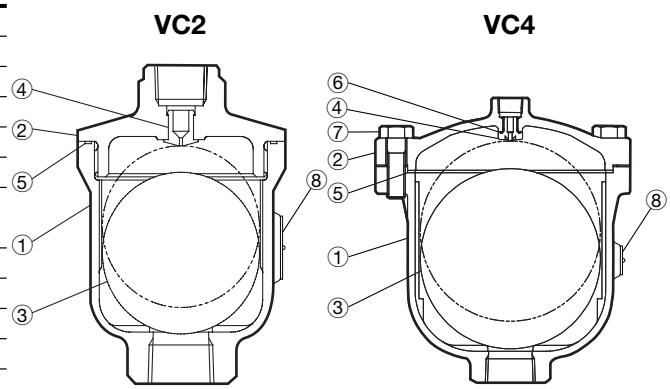
*Do not use for toxic, flammable or otherwise hazardous fluids

VC2 and VC4 are non-standard products, consult TLV for delivery time required.

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	ASTM/AISI*	JIS
①	Body	VC2	Bronze	B584 C92200	CAC407
		VC4	Cast Iron	A126 Cl.B	FC250
②	Cover	VC2	Bronze	B584 C92200	CAC407
		VC4	Cast Iron	A126 Cl.B	FC250
③	Float		Stainless Steel	AISI316L	SUS316L
④	Valve Seat	VC2	Nitrile Rubber	D2000BF	NBR
		VC4	Stainless Steel/ Nitrile Rubber	AISI303/ D2000BF	SUS303/ NBR
⑤	Cover Gasket	VC2	Fluorine Resin	PTFE	PTFE
		VC4	Fiber-Rubber Compound	—	—
⑥	Valve Seat Gasket		Fluorine Resin	PTFE	PTFE
⑦	Cover Bolt	VC4	Carbon Steel	A307 Gr.B	SS400
⑧	Nameplate		Stainless Steel	AISI304	SUS304

* Equivalent



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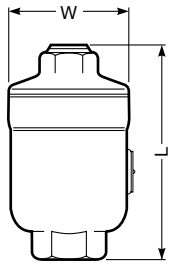
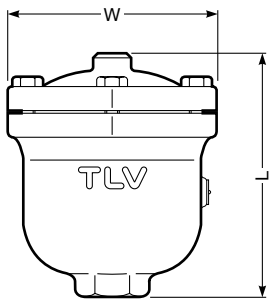
Dimensions

● **VC2** Screwed



● **VC4** Screwed



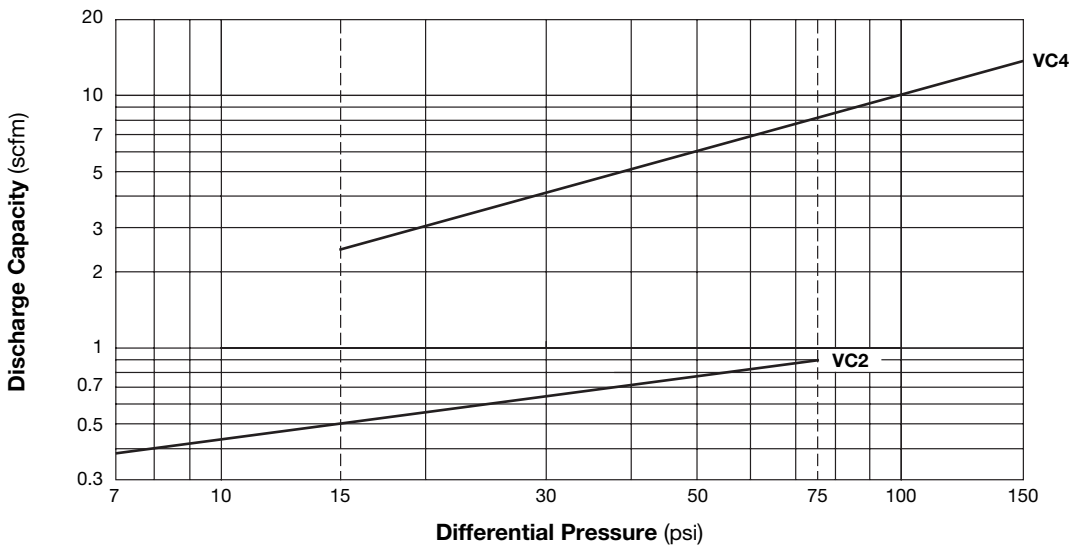
VC Screwed* (in)

Model	Size		L	W	Weight (lb)
	Inlet	Outlet			
VC2	1/2	3/8	3 7/8	2 5/8	1.3
VC4	1		7 1/2	6 5/16 (7 1/16)**	16

* NPT, other standards available
** Face-to-face (diagonal)

Note: For the inlet connection, use a pipe/fitting, etc. with an inner diameter of at least 5/8", such as a schedule 40 pipe or pipe nipple with a nominal diameter of 1/2" for VC2.
A smaller pipe may prevent water/air displacement.

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 68 °F under atmospheric pressure.

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

CAUTION DO NOT DISASSEMBLE OR REMOVE THIS PRODUCT WHILE IT IS UNDER PRESSURE.
Allow internal pressure of this product to equal atmospheric pressure and its surface to cool to room temperature before disassembling or removing. Failure to do so could cause burns or other injury. READ INSTRUCTION MANUAL CAREFULLY.

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Manufacturer
TLV CO., LTD.
Kakogawa, Japan
is approved by LRQA Ltd. to ISO 9001/14001

ISO 9001/ISO 14001

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