



# AUTOMATIC AIR VENT

## MODEL VC

### AUTOMATIC AIR VENT FOR WATER SYSTEMS

#### Features

**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

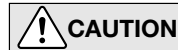
Model		VC2	VC3	VC4
Body Material		Bronze	Cast Iron	
Connection		Screwed		
Size (mm)	Inlet	15	25	
	Outlet	10		
Maximum Operating Pressure (MPaG)	PMO	0.5	0.6	1.0
Maximum Differential Pressure (MPa)	ΔPMX	0.5	0.6	1.0
Minimum Operating Pressure (MPaG)		0.05		
Maximum Operating Temperature (°C)		TMO 90		

PRESSURE SHELL DESIGN CONDITIONS (**NOT** OPERATING CONDITIONS):

1 MPa = 10.197 kg/cm<sup>2</sup>

Maximum Allowable Pressure (MPaG) PMA: 0.5 (VC2), 0.6 (VC3), 1.0 (VC4)

Maximum Allowable Temperature (°C) TMA: 185 (VC2), 220 (VC3), 150 (VC4)

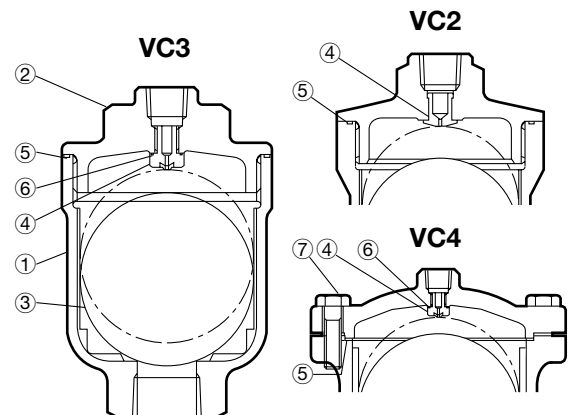


**CAUTION**

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.

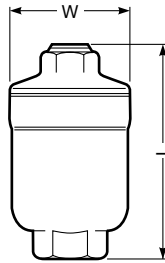
No.	Description	Material	JIS	ASTM/AISI*
①	Body	Bronze (VC2)	CAC406	B584 C83600
		Cast Iron (VC3, VC4)	FC250	A126 Cl. B
②	Cover	Bronze (VC2)	CAC406	B584 C83600
		Cast Iron (VC3, VC4)	FC250	A126 Cl. B
③	Float	Stainless Steel	SUS316L	AISI316L
④	Valve Seat	Nitrile Rubber (VC2)	NBR	NBR
		Stainless Steel/ Nitrile Rubber (VC3, VC4)	SUS303/ NBR	AISI303/ NBR
⑤	Cover Gasket	Fluorine Resin	PTFE	PTFE
⑥	Valve Seat Gasket	Fluorine Resin	PTFE	PTFE
⑦	Cover Bolt	Carbon Steel	SS400	A283 Gr. C

\* Equivalent



**Dimensions**

● VC2 ● VC3  
Screwed



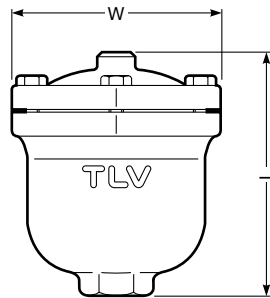
**VC Screwed\*** (mm)

Model	Size		L	W	Weight (kg)
	Inlet	Outlet			
VC2	15	10	98	66	0.7
VC3	25		131	88	1.8
VC4			190	160 (180)**	7.4

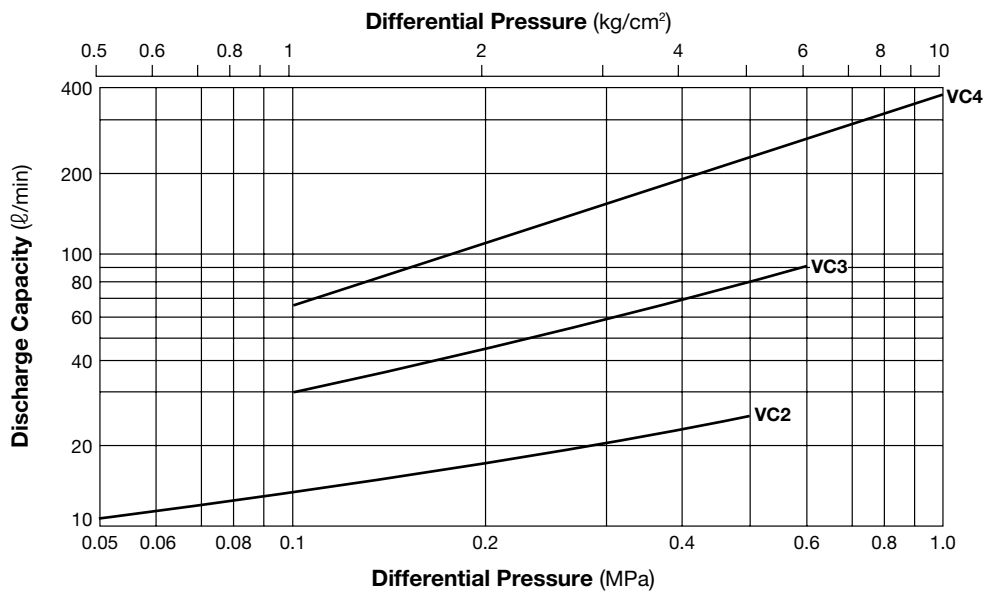
\* Rc(PT), other standards available

\*\* Face-to-face (diagonal)

● VC4  
Screwed



**Discharge Capacity**



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



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

Manufacturer

**TLV**® CO., LTD.  
Kakogawa, Japan

is approved by LRQA Ltd. to ISO 9001/14001

ISO 9001/ISO 14001

