



# AUTOMATIC AIR VENT

## MODEL VC BRONZE, CAST IRON

### 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 .

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	Inlet	1/2"	1"	
	Outlet	3/8"		
Maximum Operating Pressure (barg)	PMO	5	6	10
Minimum Operating Pressure (barg)		0.5	1	
Maximum Operating Temperature (°C)	TMO	90		

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

Maximum Allowable Pressure (barg) PMA: 5 (VC2), 6 (VC3), 10 (VC4)

Maximum Allowable Temperature (°C) TMA: 185 (VC2), 200 (VC3), 150 (VC4)

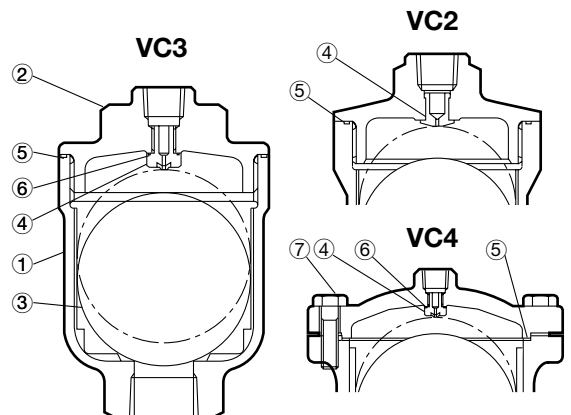
1 bar = 0.1 MPa



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.

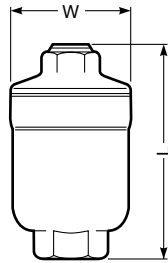
No.	Description	Material	DIN*	ASTM/AISI*
①	Body	Bronze CAC407 (VC2)	CC498K	B584 C92200
		Cast Iron FC250 (VC3, VC4)	0.6025	A126 Cl.B
②	Cover	Bronze CAC407 (VC2)	CC498K	B584 C92200
		Cast Iron FC250 (VC3, VC4)	0.6025	A126 Cl.B
③	Float	Stainless Steel SUS316L	1.4404	AISI316L
④	Valve Seat	Nitrile Rubber NBR (VC2)	NBR	D2000BF
		Nitrile Rubber NBR/ Stainless Steel SUS303 (VC3, VC4)	NBR/ 1.4305	D2000BF/ AISI303
⑤	Cover Gasket	Fluorine Resin PTFE	PTFE	PTFE
⑥	Valve Seat Gasket	Fluorine Resin PTFE	PTFE	PTFE
⑦	Cover Bolt	Carbon Steel SS400	1.0037	A283 Gr.C

\* Equivalent materials

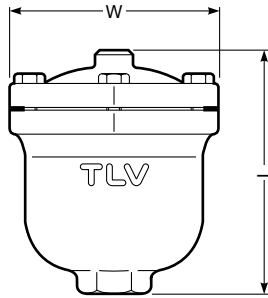


**Dimensions**

● **VC2/VC3**  
Screwed



● **VC4**  
Screwed



**VC Screwed\*** (mm)

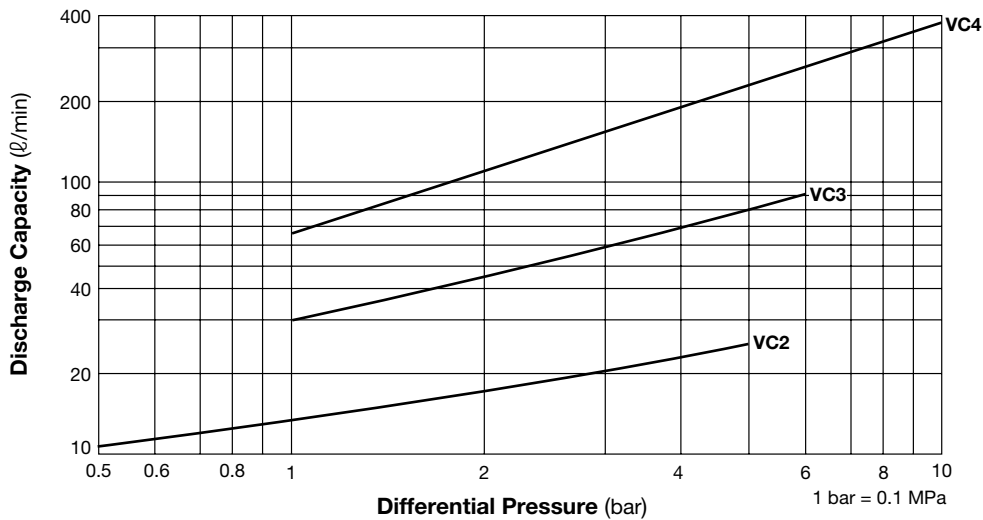
Model	Size		L	W	Weight (kg)
	Inlet	Outlet			
VC2	1/2"	3/8"	98	66	0.6
VC3	1"		131	88	1.8
VC4			190	160 (180)**	7.4

\* BSP, DIN 2999, other standards available

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

Note: For the inlet connection, use a pipe/fitting, etc. with an inner diameter of at least 16 mm, such as a schedule 40 pipe or pipe nipple with a nominal diameter of 15 mm 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 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

