



AUTOMATIC AIR VENT

MODEL VS1C

AUTOMATIC AIR VENT FOR HIGH TEMPERATURE LIQUIDS

Features

All stainless steel air vent for vertical installation in liquid systems. Automatically vents air from liquids above 0.8 S.G.

1. Three-point seating provides tightest sealing with high liquid level.
2. Precision-ground float with a sphericity of 0.004 guarantees superior sealing.
3. Unique rotational seating design eliminates concentrated wear.
4. Dual function as air vent and vacuum breaker.
5. Optional high temperature stainless steel valve seat available.*



* Sealing effectiveness may be slightly lowered

Specifications

Model		VS1C
Connection		Screwed
Size (mm)	Inlet	15, 20, 25
	Outlet	15
Orifice No.		10, 21
Maximum Operating Pressure (MPaG)	PMO	1.0, 2.1
Maximum Differential Pressure	ΔPMX	1.0, 2.1
Minimum Operating Pressure (MPaG)		0.01
Maximum Operating Temperature (°C)	TMO	150 (220 with optional metal seat)

PRESSURE SHELL DESIGN CONDITIONS

(NOT OPERATING CONDITIONS): Maximum Allowable Pressure PMA: 2.1 MPaG
Maximum Allowable Temperature TMA: 220 °C

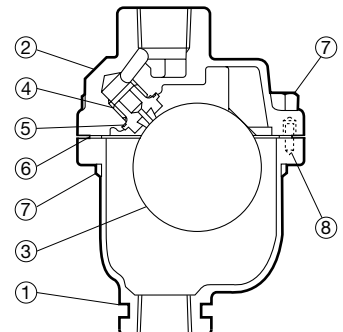
1 MPa = 10.197 kg/cm²



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

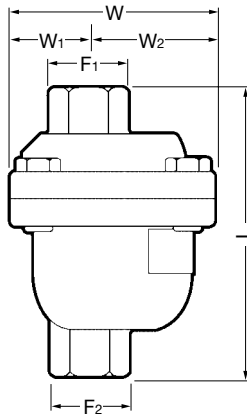
No.	Description	Material	JIS	ASTM/AISI*
①	Body	Stainless Steel	SCS13	A351 Gr. CF8
②	Cover	Stainless Steel	SCS13	A351 Gr. CF8
③	Float	Stainless Steel	SUS316L	AISI316L
④	Valve Seat	Stainless Steel/Rubber	SUS303/FPM	AISI303/FPM
⑤	Valve Seat Gasket	Fluorine Resin	PTFE	PTFE
⑥	Cover Gasket	Stainless Steel/Graphite	—	—
⑦	Cover Bolt	Stainless Steel	SUS304	AISI304
⑧	Nameplate	Stainless Steel	SUS304	AISI304
⑨	Guide Pin	Stainless Steel	SUS304	AISI304

* Equivalent ** Fluorine contained rubber



Dimensions

● **VS1C** Screwed



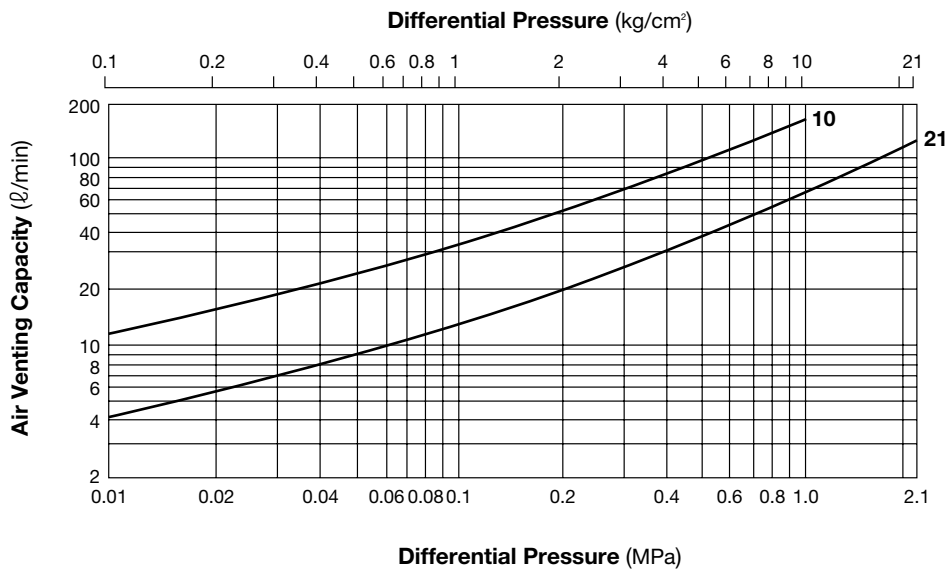
VS1C Screwed*

(mm)

Size	L	W	W ₁	W ₂	F ₁	F ₂	Weight (kg)
15	127	88	34	54	32	32	1.6
20	133						1.7
25	133						1.8

* Rc(PT), other standards available

Air Venting Capacity



1. Line numbers within the graph above refer to orifice numbers.
2. Differential pressure is the difference between the inlet and outlet pressure of the air vent.
3. Capacities are equivalent capacities of standard air (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

