



RAPID INITIAL AIR VENT

MODEL VS1A

RAPID INITIAL AIR VENT FOR LIQUIDS

Features

Stainless steel air vent for vertical installation in liquid systems. Vents large volumes of initial air from liquids above 0.8 S.G.*

1. Precision-ground float, three-point seating and valve seat with rubber contact ensure superior sealing.
2. Unique rotational seating design eliminates concentrated wear.
3. Dual function as air vent and vacuum breaker.
4. Optional high temperature stainless steel valve seat available.**

* Consult TLV for specific gravities lower than 0.8

** Sealing effectiveness may be slightly lowered



Specifications

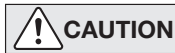
| | | |
|------------------------------------|----------------------|-----|
| Model | VS1A | |
| Connection | Screwed | |
| Size (mm) | 15, 20, 25 | |
| Orifice No. | 21 | |
| Maximum Operating Pressure (MPaG) | PMO | 2.1 |
| Minimum Operating Pressure (MPaG) | 0.01 | |
| Maximum Operating Temperature (°C) | TMO | 150 |
| Applicable Fluids* | Water, other liquids | |

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

1 MPa = 10.197 kg/cm²

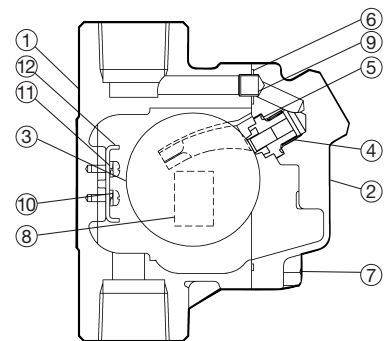
PMO (MPaG) 2.1, TMA (°C) 220, TMO (°C) 150

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



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.

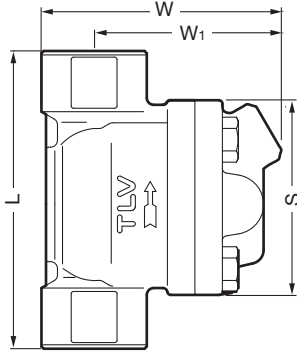
| No. | Description | Material | JIS | ASTM/AISI* |
|-----|-------------------|---------------------------------|------------|-----------------|
| ① | Body | Cast Stainless Steel | — | A351 Gr.CF8 |
| ② | Cover | Cast Stainless Steel | — | A351 Gr.CF8 |
| ③ | Float | Stainless Steel | SUS316L | AISI316L |
| ④ | Valve Seat | Fluorine Rubber/Stainless Steel | FPM/SUS303 | D2000HK/AISI303 |
| ⑤ | Valve Seat Gasket | Fluorine Resin | PTFE | PTFE |
| ⑥ | Cover Gasket | Fluorine Resin | PTFE | PTFE |
| ⑦ | Cover Bolt | Stainless Steel | SUS304 | AISI304 |
| ⑧ | Nameplate | Stainless Steel | SUS304 | AISI304 |
| ⑨ | Connector | Stainless Steel | SUS304 | AISI304 |
| ⑩ | Screw | Stainless Steel | SUS304 | AISI304 |
| ⑪ | Spring Washer | Stainless Steel | SUS304 | AISI304 |
| ⑫ | Guide Plate | Stainless Steel | SUS304 | AISI304 |



* Equivalent

Dimensions

● VS1A Screwed

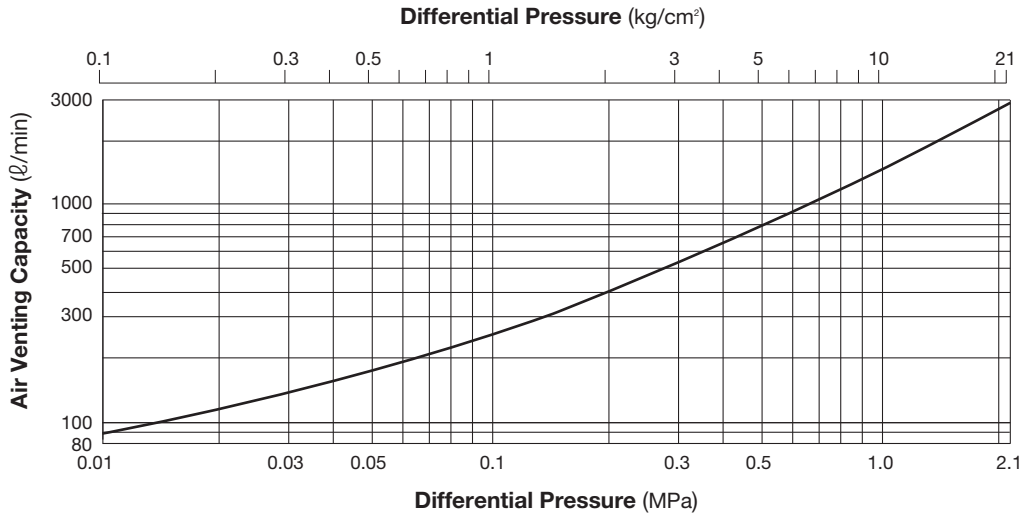


VS1A Screwed* (mm)

| Size | L | W | W1 | S | Weight (kg) |
|------|-----|-----|----|----|-------------|
| 15 | 110 | 103 | 82 | 85 | 1.6 |
| 20 | 120 | | | | 1.7 |
| 25 | 130 | | | | 1.8 |

* Rc(PT), other standards available

Air Venting 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.



CAUTION

Once the valve closes after discharging initial air, it will not open again, even if air accumulates inside the product, until the internal pressure drops to near atmospheric pressure.

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

ISO 9001
 ISO 14001

