



RAPID INITIAL AIR VENT

MODEL VAS

RAPID INITIAL AIR VENT FOR WATER SYSTEMS

Features

Float-type mechanical valve for rapidly venting air from water piping systems at start-up for moderate to hot water.

1. Large orifice can vent large volumes of initial air for quick system start-up.
2. Combination of precision-ground float and valve seat with rubber contact assures seal tightness when vent is closed.
3. Only one moving part, the free float, eliminates concentrated wear and provides long maintenance-free service life.
4. Facilitates drainage of the system by introducing air when the system has to be drained.
5. Dual function as a rapid initial air vent and a vacuum breaker.



Specifications

| | | | |
|------------------------------------|--------|---------|----|
| Model | | VAS | |
| Connection | | Screwed | |
| Size (mm) | Inlet | 20 | 40 |
| | Outlet | 15 | 25 |
| Maximum Operating Pressure (MPaG) | PMO | 1.0 | |
| Minimum Operating Pressure (MPaG) | | 0.01 | |
| Maximum Operating Temperature (°C) | TMO | 100 | |
| Applicable Fluid* | | Water | |

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

1 MPa = 10.197 kg/cm²

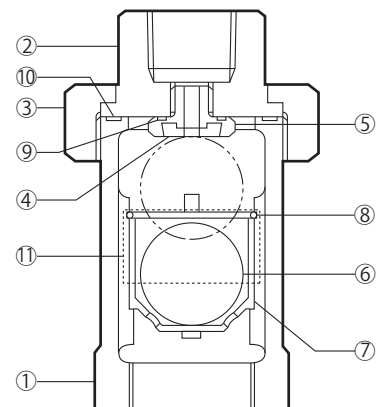
PRESSURE SHELL DESIGN CONDITIONS (**NOT** OPERATING CONDITIONS): Maximum Allowable Pressure (MPaG) PMA: 1.6
Maximum Allowable Temperature (°C) TMA: 100



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.

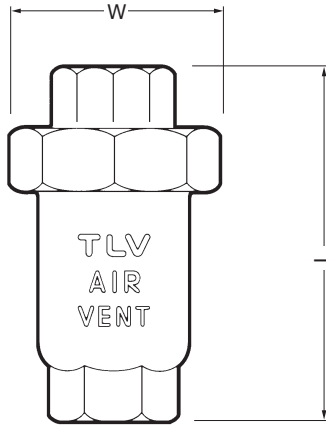
| No. | Description | Material | JIS | ASTM/AISI* |
|-----|-------------------|-----------------|---------|------------|
| ① | Body | Cast Iron | FC250 | A126 Cl.B |
| ② | Union | Cast Iron | FC250 | A126 Cl.B |
| ③ | Cap Nut | Cast Iron | FC250 | A126 Cl.B |
| ④ | Valve Seat | Nitrile Rubber | NBR | D2000BF |
| ⑤ | Valve Seat Holder | Stainless Steel | SUS303 | AISI303 |
| ⑥ | Float | Stainless Steel | SUS316L | AISI316L |
| ⑦ | Float Guide | Polypropylene | PP | PP |
| ⑧ | Snap Ring | Stainless Steel | SUS304 | AISI304 |
| ⑨ | Valve Seat Gasket | Fluorine Resin | PTFE | PTEE |
| ⑩ | Union Gasket | Nitrile Rubber | NBR | D2000BF |
| ⑪ | Nameplate | Stainless Steel | SUS304 | AISI304 |

* Equivalent



Dimensions

● **VAS** Screwed



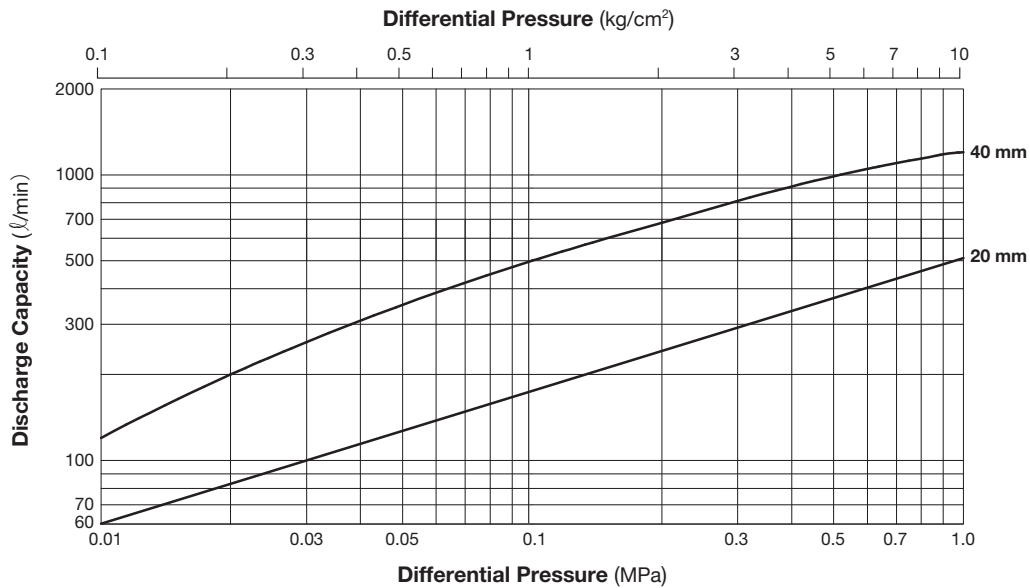
VAS Screwed* (mm)

| Size | | L | W** | Weight (kg) |
|-------|--------|-----|-----------|-------------|
| Inlet | Outlet | | | |
| 20 | 15 | 97 | 55 (59.5) | 0.6 |
| 40 | 25 | 135 | 75 (81.2) | 1.5 |

* Rc(PT), other standards available

** Face-to-face (diagonal)

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 20 °C under atmospheric pressure.



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

