



RAPID INITIAL AIR VENT

MODEL VA

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

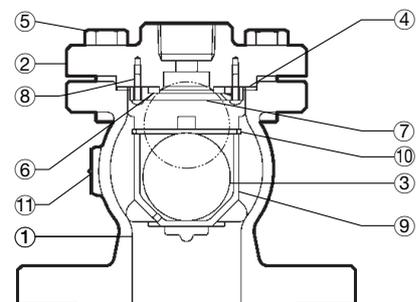
| Model | | VA1 | VA3 | VA4 | VA5 |
|------------------------------------|--------|---------|-----|---------|-----|
| Connection | Inlet | Flanged | | | |
| | Outlet | Screwed | | Flanged | |
| Size (mm) | Inlet | 50 | 80 | 100 | 150 |
| | Outlet | 20 | 32 | 65 | 100 |
| Maximum Operating Pressure (MPaG) | 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: 1.0
 Maximum Allowable Temperature (°C) TMA: 150



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.

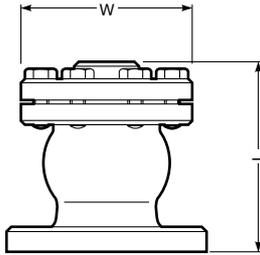
| No. | Description | Material | JIS | ASTM/AISI* | |
|-----|---------------------|-----------------------|---------|-------------|-------------|
| ① | Body | Cast Iron | FC250 | A126 Cl.B | |
| ② | Cover | Cast Iron | FC250 | A126 Cl.B | |
| ③ | Float | Stainless Steel | SUS316L | AISI316L | |
| ④ | Cover Gasket | Fiber-Rubber Compound | — | — | |
| ⑤ | Cover Bolt | Carbon Steel | SS400 | A307 Gr.B | |
| ⑥ | Valve Seat | Nitrile Rubber | NBR | D2000BF | |
| ⑦ | Valve Seat Retainer | VA1 | Brass | C3604 | B16 C36000 |
| | | VA3-5 | Bronze | CAC407 | B584 C92200 |
| ⑧ | Set Screw | Brass | C3604 | B16 C36000 | |
| ⑨ | Float Guide | Bronze | CAC407 | B584 C92200 | |
| ⑩ | Snap Ring | Stainless Steel | SUS304 | AISI304 | |
| ⑪ | Nameplate | Stainless Steel | SUS304 | AISI304 | |



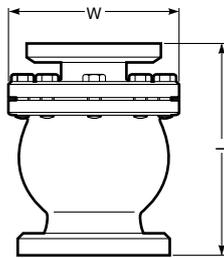
* Equivalent

Dimensions

● **VA1 ● VA3**
Flanged / Screwed



● **VA4 ● VA5**
Flanged / Flanged

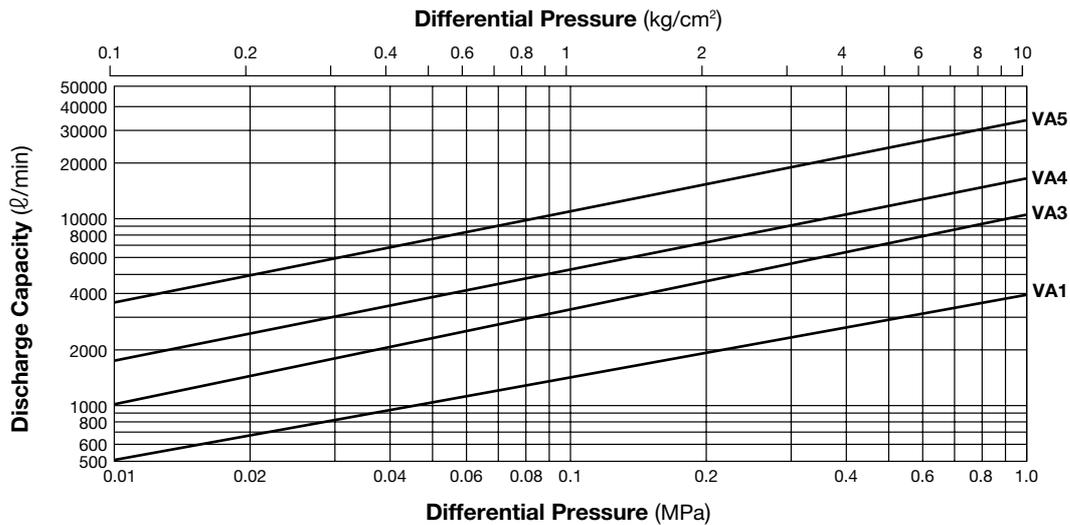


VA Flanged / Screwed, Flanged / Flanged (mm)

| Model | Size | | L | | φ W | Weight* (kg) |
|-------|-------|--------|------------|---------|-----|--------------|
| | Inlet | Outlet | ASME Class | | | |
| | | | 125FF | (150RF) | | |
| VA1 | 50 | 20 | 126 | 130 | 110 | 5.1 |
| VA3 | 80 | 32 | 170 | 174 | 145 | 9.5 |
| VA4 | 100 | 65 | 297 | 301 | 235 | 34 |
| VA5 | 150 | 100 | 447 | 447 | 335 | 72 |

() No ASME standard exists for cast iron; machined to fit steel flanges
 Class 125 FF can connect to 150 RF
 Screwed outlet connections are Rc(PT)
 Other standards available, but length and weight may vary
 * Weight is for Class 125 FF

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 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

