



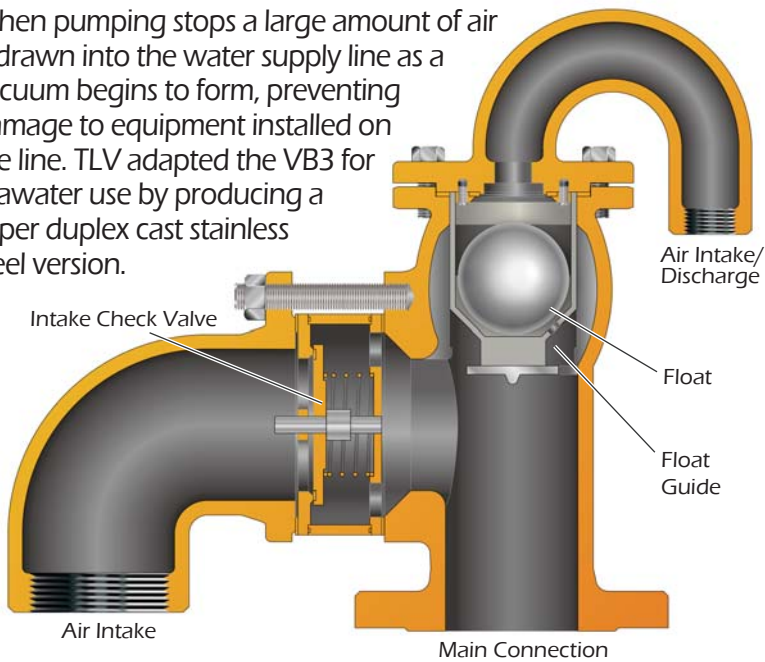
VACUUM BREAKER VB3/VB3-H

**Large Intake Capacity in a Compact Body
Prevent Damage to Equipment Related to
Water Supply Lines and Tanks**



Large Intake in a Short Time Period

When pumping stops a large amount of air is drawn into the water supply line as a vacuum begins to form, preventing damage to equipment installed on the line. TLV adapted the VB3 for seawater use by producing a super duplex cast stainless steel version.



2,000* Nm³/h Intake

Large capacity in a compact body.

* approx. 2000 Nm³/h with 0.03 MPa differential pressure

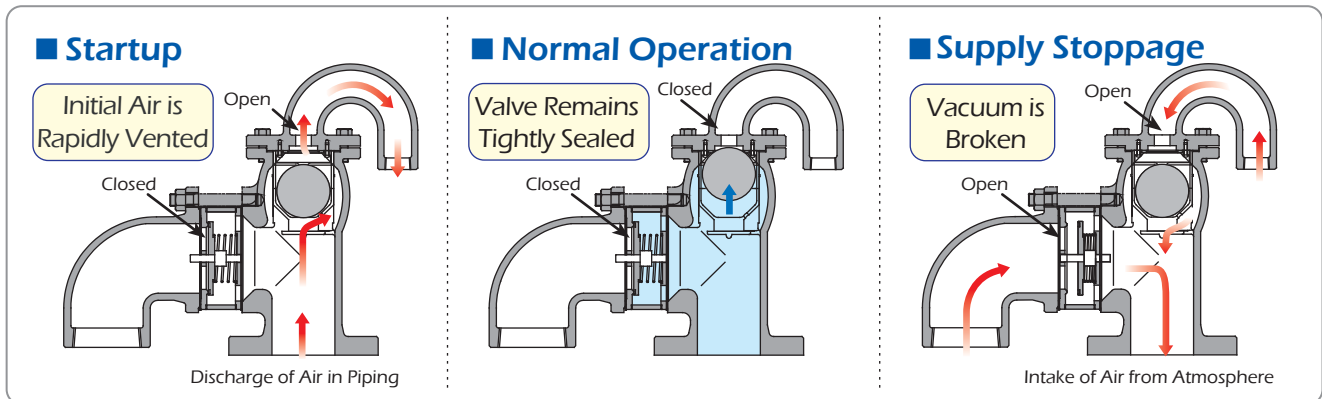
Long Life, Tight Seal

The only moving parts are the hinge-less, lever-less free float and the center-guided check valve with coil spring support for long, trouble-free service life. Nitrile rubber ensures a tight seal for both valves.

Rapid Initial Air Vent

Large orifice can vent large volumes of initial air for quick system start-up.*

* While acting as an initial air vent, 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. Install an automatic air vent if air flows into the system during operation.

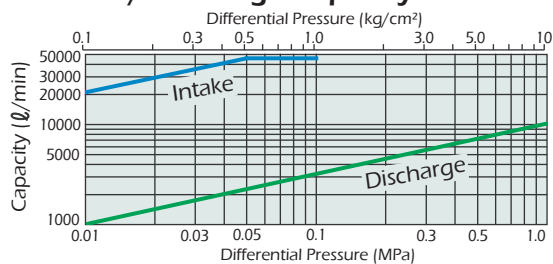


Application

Applications where a large amount of air is necessary to be introduced to water supply lines to prevent a vacuum from forming, such as:

- Coastal Seawater Supply
- Elevated Cooling Water Piping

Intake/Discharge Capacity



1. Differential pressure is the difference between the main connection pressure and air intake/discharge port pressure.
2. Capacities are equivalent capacities of air at 20 °C under atmospheric pressure.

Specifications

		VB3	VB3-H
Connection	Main Connection	80 mm Flanged	
	Air Intake Port	80 mm Screwed	
	Air Intake/Discharge Port	25 mm Screwed	
Body Material		Super Duplex Cast Stainless Steel CD3MWCuN	Cast Steel WCB
Max. Operating Pressure PMO / Max. Allowable Pressure PMA*		1.0 MPaG / 1.0 MPaG	1.0 MPaG / 5.0 MPaG
Max. Operating Temp. TMO / Max. Allowable Temp. TMA*		90 °C / 100 °C	90 °C / 350 °C

* PMA and TMA are PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS).

1 MPa = 10.197 kg/cm²

Full product details (sizes, pressures, capacities and materials) are included in the specification data sheet (SDS).

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

TLV INTERNATIONAL, INC.

881 Nagasuna, Noguchi, Kakogawa, Hyogo 675-8511, JAPAN

Tel: [81]-(0)79-427-1818 Fax: [81]-(0)79-425-1167

E-mail: tlv-japan@tlv.co.jp <http://www.tlv.com>

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

