



DAV-LP-K

Vacuum (Kinetic) Valve

This valve has been designed for efficient discharge and intake of air in water transport systems, filtering systems, containers, and other locations where confined air could impair the system's operation.

The valve is designed for:

- Expelling the air at high flow velocity during the initial filling of the system
- Introducing large quantities of air when the pipe drains, maintaining atmospheric pressures in the pipe and preventing collapse and cavitation damage to the conduits

Properties:

Leak-proof sealin including low system pressure. The aerodynamic design of the valve enables air flow at a very high velocity. The float does not close before the water has reached the valve. Outlet port is directing the "blowout" flow away protecting sensitive devices and operators. The valve design contains limited number of parts, allowing easy dismantling for maintenance.

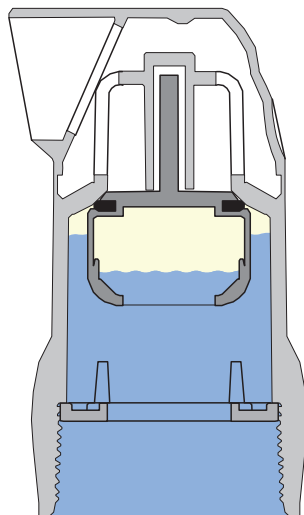
Operation:

The DAV-LP-K valve has two modes of operation: Vacuum-prevention, by admission of air into the pipeline. The pressure difference forces the float to drop to "opened" position, allowing large volumes of air to flow into the pipe. Discharge of large quantities of air at a high flow velocity when the conduit is being filled. When the water arrives to the valve, the float rises up and closes the outlet.

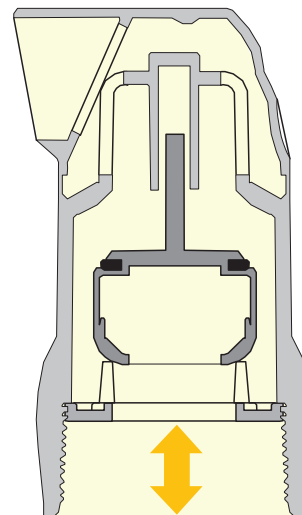
Technical Specifications:

- Operating pressure: 0.1 to 10 bars / 1.5 to 150 psi
- 2" BSP or NPT threaded base - as per the customer's choice
- Materials: corrosion resistant reinforced plastic materials and synthetic rubber
- The valve allows the discharge of 410 m³/h of air at pipe pressure of 0.5 barg and the intake of 180 m³/h of air at pipe pressure of -0.1 barg

Principle of operation:



Pipe is full of water



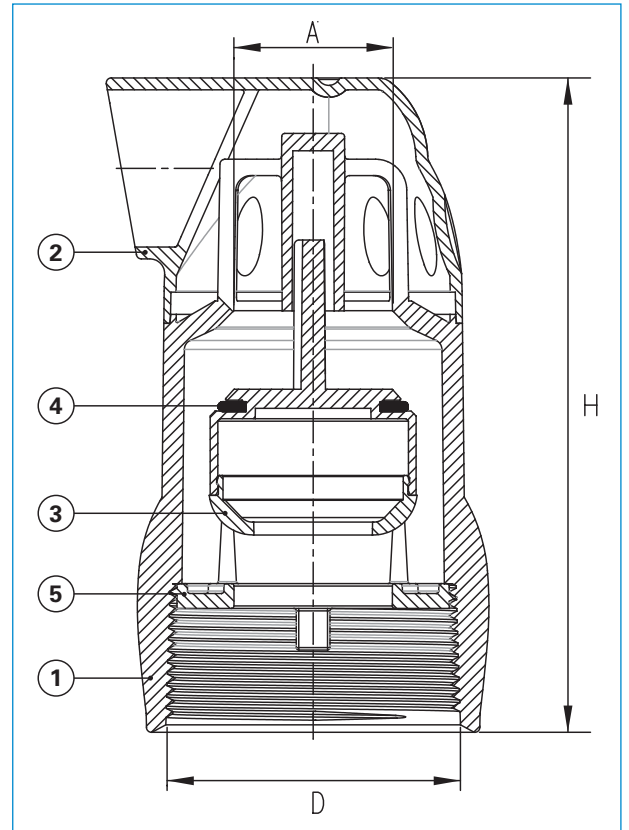
Pipe is aerated

Parts list:

Part	Description	Material
1	Body	GRP
2	Cover	PA
3	Float	POM
4	Seal	EPDM
5	Ring	GRP

Dimensions:

Valve	SI	US
Valve Size	50mm	2"
D - Thread	2" BSP	2" NPT
H - Height	132mm	5.2"
A - Nozzle Area	804mm ²	1.25 in ²
Weight	300 gr	0.7 lbs



Performance:

