

series
DAV

DAV-P-1-K 1" Kinetic Air Valve

Description

This valve has been designed for an efficient discharge of air from small water network systems, filters, containers, and other devices where trapped air may impair the system's operation.

The valve is appropriate for:

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

Properties

The valve, allows the discharge and the introduction of air. Its aerodynamic performance is superior to valves of the same diameter.

Leak-proof sealing at all conditions, including low system pressure.

A filter is installed at the air exit of the valve- to prevent foreign materials, such as leaves or insects, from entering when it is open.

The design is comprised of only 5 parts, thereby allowing a simple and easy disassembly for maintenance.

Threaded Connection – 1" BSP or NPT according to the customer's choice.

Operation

The DAV-P-1-K valve has two modes of operation:

Discharging 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.

Introduction of air into the pipeline when the internal pressure is sub- atmospheric. The pressure difference forces the float to drop to "opened" position, allowing large volumes of air to flow into the pipe.

Technical Specifications

- Operating pressure of 0.2 to 16 bars
- 1" BSP or NPT threaded base – as per the customer's choice
- Air flow, even at a critical velocity created by pipeline pressure of 0.9 bar, will not cause premature closure of the valve
- Structure materials: Body: Glass- reinforced, UV resistant Polyamide (GRP)
- Internal parts: corrosion resistant plastic materials and synthetic rubber
- Particularly large nozzle design allows the discharge of 170 m³/hour of air, at pipe pressure of 0.5 bar



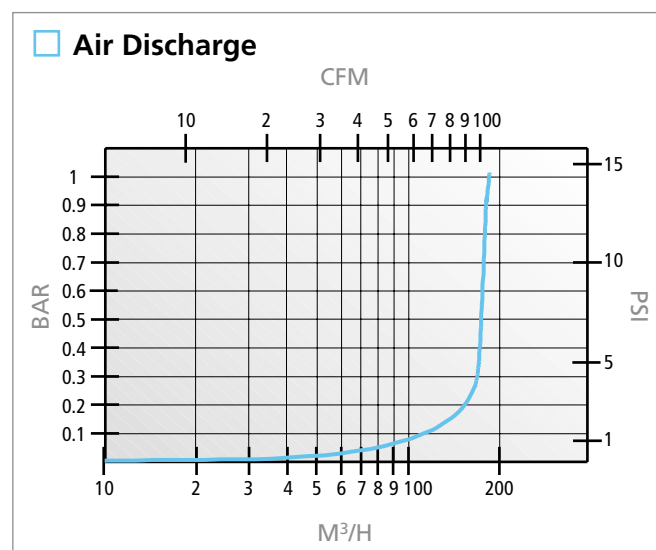
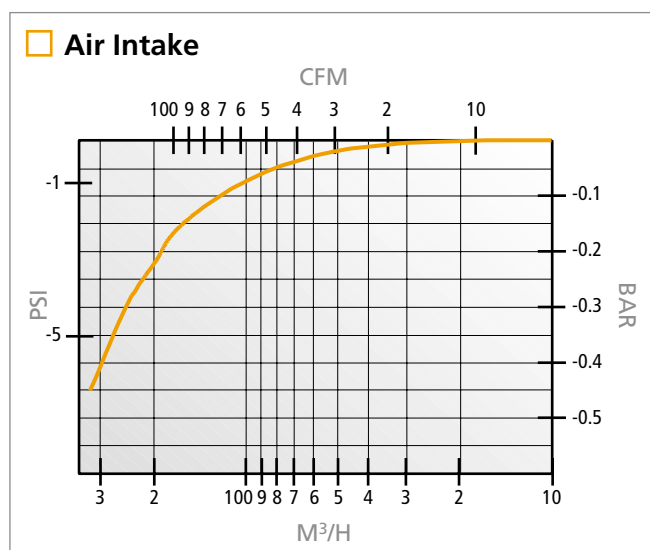


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Performance

Air intake/discharge



Dimensions

Dimension	SI	US
H - Height	273 mm	10 ³ / ₄ in
W - Width	80 mm	3 ¹ / ₈ in.
D - Threaded Attachment	1" BSP	1" NPT
A - Nozzle Area	314 mm ²	0.487 in ²
Weight	0.725 kg	1.6 Lbs.

Part Specifications

Part	Description	Material
1	Base	GRP
2	O-ring	NBR rubber
3	Float	Polypropylene
4	Body	GRP
5	Valve seal	EPDM rubber

