

Location: _____



AV-P-K-A

AIR VENT

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

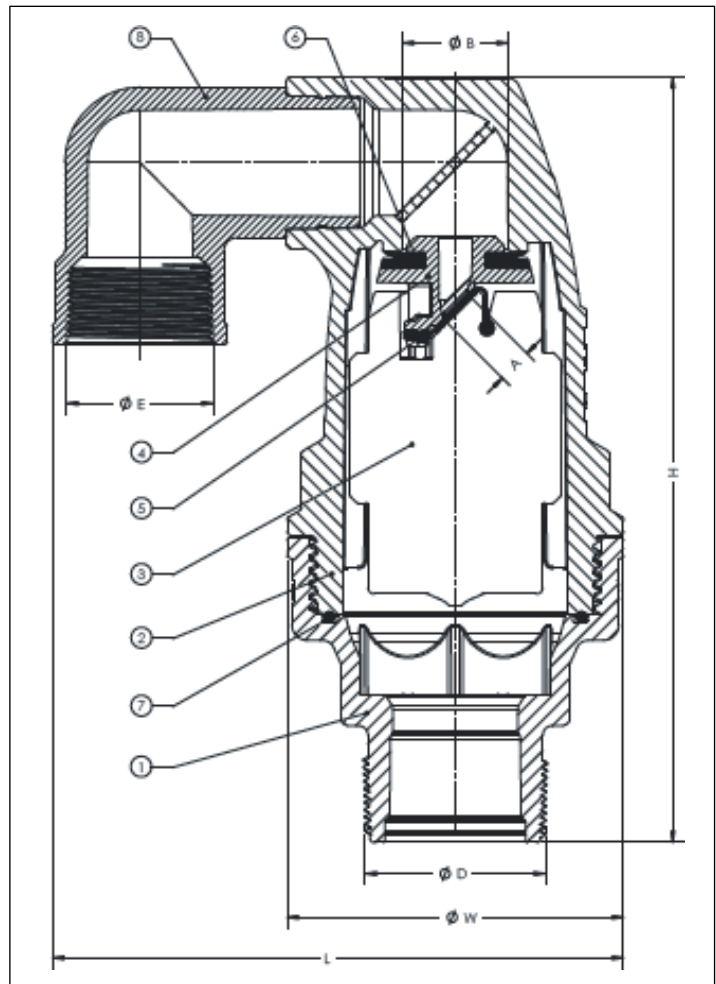
- Expelling the air at high flow velocity during the initial filling of the systems.
- Introducing large quantities of air when the pipe drains, maintaining atmospheric pressures in the pipe and preventing collapse and cavitation damage to the conduits.
- Relieving the entrained air from the water, while the network is pressurized.

Properties: Leak-proof sealing at all conditions, including low system pressure. The aerodynamic design of the float provides air flow at a very high velocity. The float does not close before the water has reached the valve. Threaded outlet elbow allows various possibilities of drain connection. The valve design contains a very limited number of parts, allowing easy dismantling for maintenance. The valve is rated for a working pressure range of 1.5 to 250 psi.

Operation: The valve has three modes of operation: 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 main 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. Releasing entrained air from the pipeline. Small quantities of diluted air accumulate in high peaks of the pipeline and in the peak of the valve. The pressurized air expels the water. The descending water level moves the main float with it. At a certain position the main float pulls down the small seal, that partially opens the nozzle. The pressurized air can escape, the water level rises and the nozzle re-closes.

Part	Description	Material
1	Bonnet	Glass Reinforced Nylon
2	Body	Glass Reinforced Nylon
3	Float	Foamed Polypropylene
4	Slider	Glass Reinforced Nylon
5	Automatic Seal	Silicon
6	Kinetic Seal	EPDM Rubber
7	O ring	NBR
8	Drainage Elbow	Polypropylene

Model No.	Size
AV.50-P-K-A	1/2"
AV.75-P-K-A	3/4"
AV1.00-P-K-A	1"
AV1.25-P-K-A	1 1/4"
AV1.50-P-K-A	1 1/2"
AV2.00-P-K-A	2"



CALIFORNIA PROPOSITION 65 WARNING. This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Job Name: _____ Page No: _____
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