

AIR VALVES

Combination air valve 1”

Description

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

The valve is appropriate for:

- Expelling the air at high flow velocity during the initial filling of the systems.
- Introducing air when the pipe drains, maintaining atmospheric pressure in the pipe, preventing collapse and cavitations' 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.

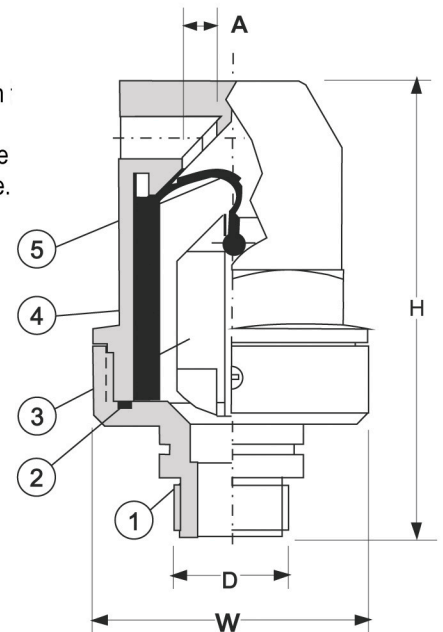
The float does not close before the water has reached the valve.

The valve design contains a very limited number of parts allowing an easy dismantling for maintenance.

Operation

The air valve has three modes of operation:

- Discharge of large quantities of air at a high flow velocity when the conduit is being filled. When 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 main float to drop to “opened” position allowing the air to flow into the pipe.
- Releasing entrained air from the pipeline.



Dimensions

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H	Height	135 mm
W	Width	84 mm
D	Threaded attachment	1" BSP
A	Nozzle Area	314 mm ²
Weight		0,34 kg

Part specifications

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