

AV-010 PN 10



Air & Vacuum Air Valve

Description

The AV-010 Air & Vacuum Valve discharges air at high flow rates during the filling of the system and admits air at high flow rates during drainage, pump shut-off or at water column separation.

Applications

Agricultural and landscape irrigation laterals.

Operation

The air & vacuum valve discharges air at high flow rates during the filling of the system and admits air at high flow rates during drainage, pump shut-off or at water column separation.

High velocity air will not blow the float shut. Water entry will lift the float which seals the valve.

The smooth discharge of air reduces pressure surges and other destructive phenomena.

At any time during system operation, should internal pressure of the system fall below atmospheric pressure, air will enter the system.

The intake of air in response to negative pressure protects the system from destructive vacuum conditions and prevents damage caused by water column separation. Air entry is essential to efficiently drain the system.

As the system starts to fill, the valve functions according to the following stages:

1. Entrapped air is released by the valve.
2. Water enters the valve, lifting the float and sealing the valve.

When internal pressure falls below atmospheric pressure (negative pressure):

The float will immediately drop down, opening the air & vacuum orifice.

Air will enter the system.

Main Features

- Working pressure range: 0.2 - 10 bar
- Testing pressure: 16 bar
- Working Temperature : 60° C
- Maximum intermittent temperature : 90° C
- The body is made of high strength composite materials, and all operating parts are made of specially selected corrosion-resistant materials.
- Drip-tight sealing at low pressure.
- All parts are UV protected.
- Lightweight, small dimensions, simple and reliable structure.

Valve Selection

- Available in 3/4" (20mm), 1" (25mm) male threaded, 2" (50mm), 3" (80mm) female threaded NPT/BSPT.
- Optional addition: Shrader valve for measuring local line pressure (3/4", 1" only).



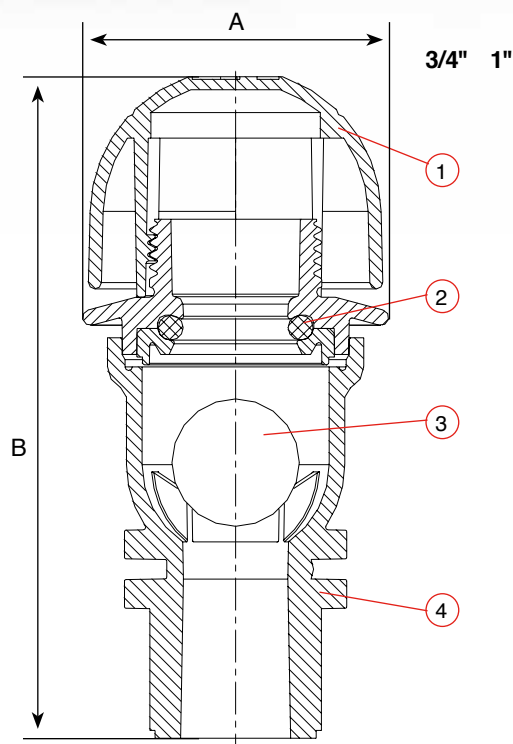
Upon ordering, please specify: model, size, working pressure, threads standard and type of liquid

DIMENSIONS AND WEIGHTS

Nominal Size	Dim. mm		Weight Kg.	Orifice Area mm2
	A	B		
3/4" (20mm)	60	124	0.1	314
1" (25mm)	60	124	0.1	314
2" (50mm)	73	122	0.2	800
3" (80mm)	104	165	0.6	2000

PARTS LIST AND SPECIFICATION

No.	Part	Material		
		3/4", 1"	2"	3"
1.	Cover	Polypropylene	Polypropylene	Polypropylene
2.	Seal	BUNA-N	E.P.D.M.	E.P.D.M.
3.	Float	Polypropylene	Reinforced Nylon	Reinforced Nylon
4.	Body	Polypropylene	Reinforced Nylon	Reinforced Nylon
5.	Disc	-	Reinforced Nylon	Reinforced Nylon



AIR & VACUUM FLOW RATE

