AV-010

Industry

Air & Vacuum Air Valve

Description
The air & vacuum air valve discharges air during the filling or charging of the system, and admits air to the system during system drainage.

Installation Location
- Before hydraulic valves
- On strainers and filters.
- Downstream of the sub-main.
- Leaching systems - after the valve.

Operation
The AV-010 discharges air at high flow rates during the filling of the system and admits air into the system at high flow rates during its drainage.
High velocity air, or even air mixed with a mist of water spray, cannot blow the float shut. Liquid entry will cause the sealing of the valve.
At any time during system operation, should internal pressure of the system fall below atmospheric pressure, air will re-enter the system.
The smooth release of air prevents pressure surges and other destructive phenomena.
Admitting air in response to negative pressure, protects the system from destructive vacuum conditions and prevents damage caused by water column separation. Air re-entry is essential to efficiently drain the system.

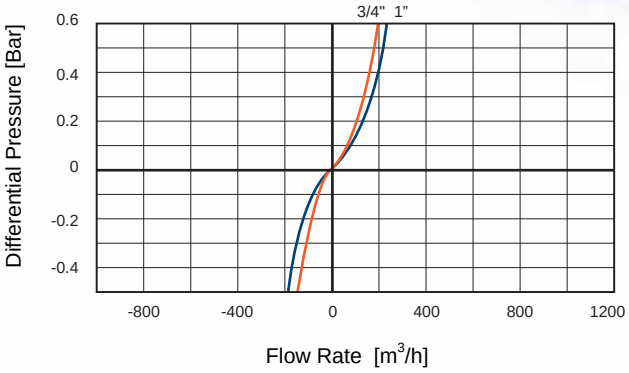
As the system starts to fill, the valve functions according to the following stages:
1. Entrapped air is released by the valve.
2. The liquid enters the valve lifting the float and sealing.

When internal pressure falls below atmospheric pressure (negative pressure):
1. The float will immediately drop away from the orifice.
2. Air is admitted to the system.

Main Features
- Working pressure range: 0.2-10 bar
- Testing pressure: 16 bar
- Working Temperature: 60^0 C
- Maximum instantaneous working temperature: 90^0 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.

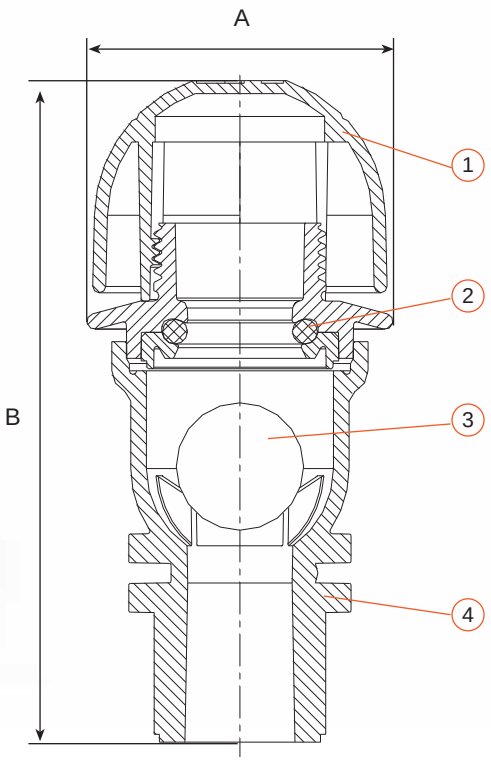
Valve Selection
- Available in 3/4" (20mm), 1" (25mm) male threaded.
- Shrader valve for measuring local line pressure.

AIR AND VACUUME FLOW RATE



DIMENSIONS AND WEIGHT

Nominal Size	Dim. mm A	Dim. mm B	Weight Kg.	Orifice Area mm²
3/4" (20mm)	60	124	0.1	314
1" (25mm)	60	124	0.1	314



PARTS LIST AND SPECIFICATION

No.	Part	Material
1.	Cover	Polypropylene
2.	Seal	Viton
3.	Float	Polypropylene
4.	Body	Polypropylene