

UNIRAIN ARV-1"-A / A(B)

Automatic Air Release Valve



Units Conversion	
FLOW	PRESSURE
m ³ / h (metro cúbico por hora)	mca (metro de columna de agua)
l / h (litro por hora)	PSI (Pounds per Square Inch)
GPM (Gallons per Minute)	
CFM (Cubic Feet per Minute)	
1 CFM = 1.699 m ³ / h	1 PSI = 0.70307 mca
1 GPM = 227.1192 l / h	

Application

This valve is designed to efficiently extract the air trapped in pipes, filters, tanks and other places where unwanted air might cause problems.

The valves are located at the outlet of pipes whose slope varies according to the hydraulic gradient, in areas where pipes are located above ground level, at the input of measuring instruments, in long pipes with uniform slope, on both sides of a subterranean crossing road, at the output of reducing valves, in diameter reductions, pumps and filtration systems.

For a correct running, the valve should always be in a vertical position.

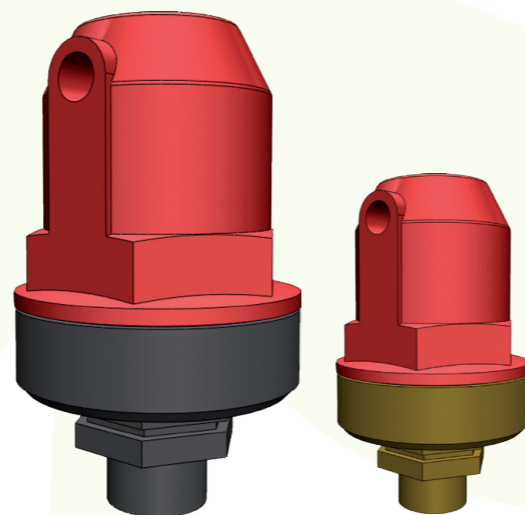
It is recommended to install a manual ball valve under the ARV, in order to make the maintenance and repair operations easier without putting out all the system*.

Advantages

- The valve has one seal, which expels both kinetic and residual air automatically, and this function is not affected by water pressure.
- Simple in design, with a total of only 5 parts, it's easy to unassemble for maintenance and cleaning when needed.
- Its exclusive Y-shaped discharge outlet design allows a much greater air flow than in other valves of this type, in both the intake and the discharge processes.
- Owing to a perfect fit, the valve is totally sealed even at very low pressures.
- The body is red, making it easily visible.

Technical specifications

- Automatic continuous control air release valve.
- At least 41.2 CFM of air released without having the valve shut while no water present.
- Released air volume is at least 8.8 CFM at 14 PSI.
- Maximum working pressure 225 PSI.
- Body and base made of fiber-glass reinforced polyamide.
- Treated for protection from UV radiation.
- 1" M base thread. Optional base in BSP or NPT & Plastic or Brass ARV-1"-A(B)



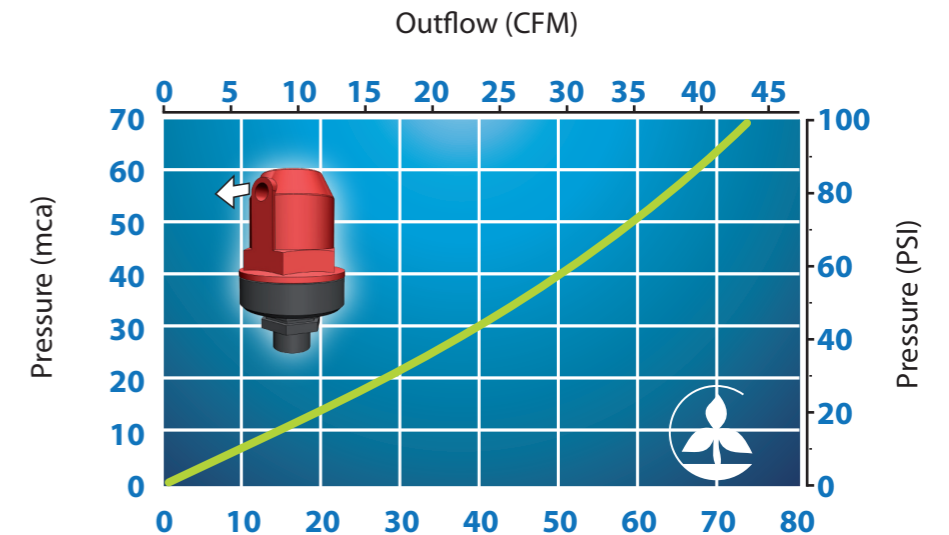
ARV-1"-A

ARV-1"-A(B)

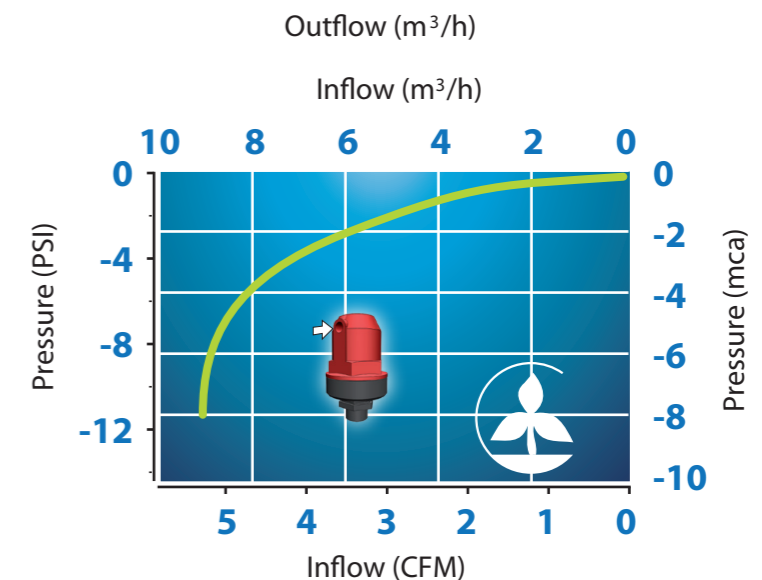
Performance

- It **extracts** the air from pipes with small diameter as they fill. When water reaches the inside of the valve, the float rises and seals the discharge outlet.
- It **exerts continuous automatic control**, eliminating any residual air pockets reaching the valve, as the float immediately drops, the discharge outlet is partly or totally opened. The internal water pressure does not prevent this function from being carried out.
- It **prevents** small pipes collapse. At the least decrease in pressure, the float drops and opens the seal allowing outside air to enter the pipe.

Outflow



Inflow



*Normal use, service and maintenance conditions.

This product has been tested at low pressure (8 psi) and high pressure (225 psi) with satisfactory results.

For the correct running of valves they must be regularly checked. The checking should include the cleaning of the internal components and a control of the seal conditions. For more detailed information about use and maintenance of valves, please check the document called "Unirain ARV: INSTALLATION AND OPERATION".

For specific uses, please check the technical department.

WARRANTY AND EXCLUSIONS

The manufacturer guarantees its products for direct customer against any defects in materials or manufacture for a period of two years from the original date of purchase, when the products have been used under normal operating conditions. The manufacturer assumes no responsibility for installation, removal or repairs carried out by unauthorized personnel. The manufacturer's liability under this warranty is limited to the replacement or repair of defective parts and the manufacturer does not accept responsibility for damages to crops or any other consequential damages deriving from defects in the products covered by this warranty.

THE PRESENT WARRANTY SUPERCEDES AND VOIDS ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSES OR ANY OTHER ATTRIBUTING LIABILITY TO THE MANUFACTURER.

No agent, employee or representative of the manufacturer is authorised to void, alter or add to the conditions contained in this warranty, nor to take responsibility for, nor to make guarantees not specified herein.

UNIRAIN S.A. reserves the right to amend any of the technical features of this product.