UNIRAIN ARV-2"-K-Compact

Combination Air Valve



Application

Designed to efficiently extract air trapped in medium-sized pipes, large filters, tanks and other places where the absence of air is required for correct functioning.

The release 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, in long pipes with uniform slope, at the input of measuring instruments, the output of reducing valves, in diameter reductions, pumps, filtration systems, on both sides of a subterranean crossing road.

For correct operation, 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 maintenance and repair operations easier without shutting the whole system*.

Advantages

- New compact design more sustainable and competitive with similar quality and performance as the rest of our air valves.
- Owing to a perfect inner finish, the valve is totally sealed even at very low pressures.
- With just five parts, it's very easy to disassemble when it needs to be cleaned.
- Its outlet features a threaded elbow to provide a wider range of connection possibilities, as it's easily detachable, offering a vertical outlet.
- Owing to its exclusive internal design, the air stream will not drag the float up, even when air is faster than the speed of sound at the outlet. Only water will cause the float to rise.
- Includes an internal grille in the elbow to prevent foreign bodies from entering the valve.

Technical specifications

- Kinetic air valve.
- At least 1700 m³/h (1000 CFM) of air released without having the valve shut while no water present.
- Released air volume is at least 260 m³/h (153 CFM) at 0.4 bar (5.8 PSI).
- Maximum working pressure 16 bar (232 PSI).
- Body and base made of fibreglass reinforced polyamide.
- Treated for protection from UV radiation.
- 2"M base thread. Optional base in BSP or NPT thread.
- 1-1/4" F threaded outlet with grille.



Performance

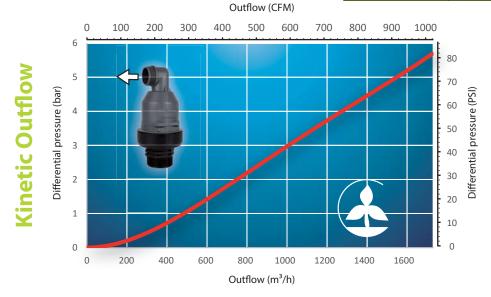
- Extracts the air trapped in pipes as they fill. When water reaches the inside of the valve, the float rises, shutting the outlet (KINETIC).
- Prevents pipes from collapsing. At the smallest decrease in pressure, the float drops and opens the seal allowing outside air to enter the pipe immediately (AIR VACUUM RELIEF).

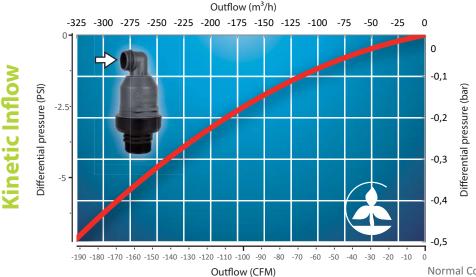
ARV-2"-K DATA SHEET Versión 01





Units Conversion		
FLOW	PRESSURE	
m³ / h (cubic metres per hour) 1 / h (litres per hour) GPM (gallons per minute) CFM (cubic feet per minute)	mWa (metres of water column) PSI (pounds per square inch)	
1 CFM = 1.699 m ³ /h 1 GPM = 227.1192 l/h	1 PSI = 0.70307 mWa	





Normal Conditions Flow (P= 1 atm, T= 293.15 K)

*Normal conditions of use, service and maintenance.

This product has been tested at low pressure (0.5 bar) and high pressure (16 bar) with satisfactory results.

For correct operation, valves must undergo regular routine checks. The check should include the cleaning of the internal components and inspection of the seal conditions. For more detailed information about the use and maintenance of valves, please check the document called "Unirain ARV: INSTALLATION AND OPERATION MANUAL"

For specific uses, please consult the technical department.

WARRANTY AND EXCLUSIONS

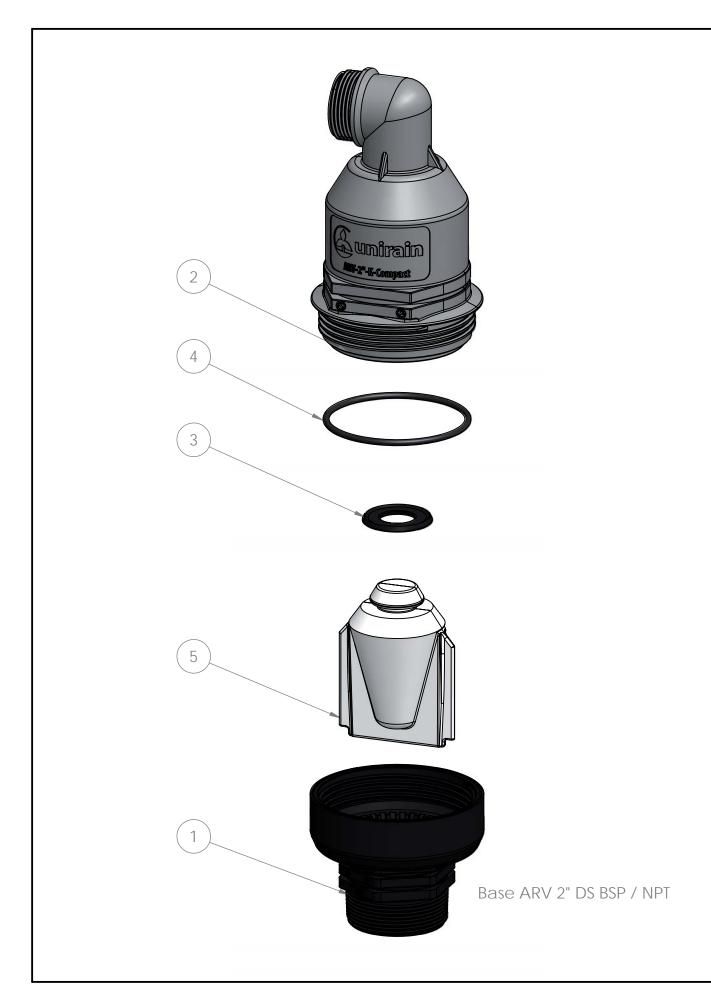
The manufacturer guarantees its products for direct customers against any defects in materials or manufacture for a period of two years from the original date of purchase, when the products have been used under normal operating and service conditions. The manufacturer assumes no liability for installation,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

THIS WARRANTY SUPERSEDES AND VOIDS ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING THOSE OF MERCHANTABILITY OR ANY OTHER ATTRIBUTING LIABILITY TO THE MANUFACTURER.

No agent, employee or representative of the manufacturer is authorised to change, alter or add to the conditions contained in this warranty or to assume liability or make guarantees not specified herein.

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

ASSEMBLY



COMPONENT NUMBER	SPARE CODE	DESCRIPTION	DESCRIPTION MATERIAL	
1	01782BDS	ARV-2" (BSP) DS Base	PA6 + Fiber Glass	1
2	01782BDS	2BDS ARV 2"-K Compact Gray PA6 + Fiber Glass		1
3	01785SPU	ARV 2" Main Seal SPU	EPDM	1
4	01787DNS	2" DNS O-Ring	NBR	1
5	01793COM	ARV 2"-K-Compact Float	Expanded PP	1

Anotaciones						

Process/Manufacturer	Size	Material	Code
	A 3		
UNIRAIN	Scale	Name	
	1:2	ARV-2"K-Compact	
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