UNIRAIN ARV-Mini-In

Vacuum Breaker Air Valve





nflow

Application

Vacuum breaker air valve, designed to effectively admit air at high flow rates during drainage and in case of pumping interruption or water column separation

Recommended as safety valve in drip irrigation systems, breaking the system vacuum and preventing dirt suction into the drippers.

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

- The valve has a large hole, with a special seal system, capable of admitting high air flow rates.
- Simple in design, with only 5 parts, it's easy to disassemble for maintenance and cleaning when needed.
- Its body features a built-in filter to prevent objects, such as insects and leaves, from getting into the valve through the outlet.
- Owing to a perfect fit, the valve is totally sealed at low pressures .

Technical specifications

- Performance as vacuum breaker.
- It admits air flows rates up to 185 m^3/h (109 CFM).
- Maximum working pressure 12 bar (174 PSI).
- Body and base made of fiberglass-reinforced polyamide.
- Treated for protection from UV radiation.
- Base available in 3/4" male thread.
- Optional BSP or NPT thread.
- Built-in filter in body hole.



Performance

Prevents pipes from collapsing (Vacuum). At the smallest decrease in pressure, the float drops and opens the seal allowing outside air to enter the pipe immediately.

In drip irrigation systems, this performance helps avoiding dirt suction into the drippers.



Inflow (CFM)

-75

*Normal conditions of use, service and maintenance. This product has been tested at low pressure (0.5 bar) and high pressure (12 bar) with satisfactory results.

-100

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

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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.

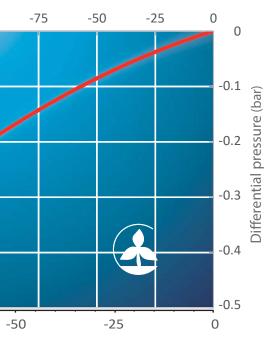
UNIRAIN S.A. reserves the right to amend any of the technical features of this product.

TECHNICAL SHEET ARV-Mini-In 02 Version

The current final version will always be published on the official Unirain website www.unirain.com

Units Conversion					
FLOW	PRESSURE				
m ³ / h (cubic metres per hour) l / 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 Conditiones Flow (P= 1 atm, T= 293.15 K)

ARV - Mini-In

C	COMPONENT NUMBER	SPARE CODE	DESCR	IPTION	MATERIAL	QUANTY
(4)	1		ARV Mini 3/	'4" BSP Base	e PA6+Fibergla	ISS 1
	2	01748	ARV-Mini 4	3x2 O-Ring	I NBR	1
	3	01769EPD	ARV 1"-3/4	" Main Sea	I EPDM	1
	4		ARV Mir	nIn body	PA6+Fibergla	ISS 1
(S millall	5		Float AF	RV-MinIn	Expanded P	P 1
	Notes					
	Process/M	anufacturer UNIRAIN		A3 Scale	Material Name	Code 02334UNI
	THE INFO FORBI WITH	Private and confid Rmation contail Is for unirain us Den change oi Of values of th Hout a consent i	Dential Ned on This Plan Se only. R amendment He Plan In Writting.	1:1 28/10/22 P.M.M.	ARV-Mini-In	



