A.R.I. AV-010

Aquestia
Directing the Flow

Irrigation

Air & Vacuum Air Valve

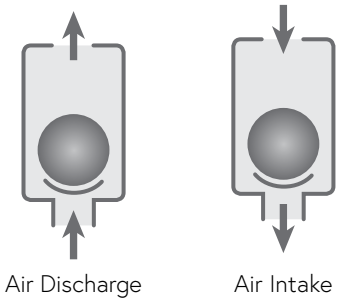
Description

A.R.I. AV-010 is a lightweight Air & Vacuum Air Valve. Valve operation includes venting air from a filling pipeline and also vacuum breaking (air intake) of a draining pipeline, to optimizie pipeline hydraulic efficiency and flow.

Installation

- Agricultural irrigation pipelines and laterals
- Landscape irrigation pipelines and laterals

Operation



Air Discharge

Air Intake

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Features and Benefits

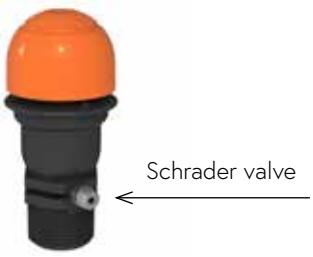
Lightweight, small dimensions	Easily installed, even on plastic piping systems, simple to maintain
All parts - high-strength reinforced composite and rubber materials	Non-corrosive and durable
Customized rubber seals	Drip-tight sealing at low pressure
All parts UV protected	Durable and long-lasting in outdoor environments

Technical Specifications

Size range	3/4" - 3"
Sealing pressure range	0.2 - 10 bar (PN10)
Testing pressure	1.5 times maximum working pressure
Temperature	Maximum working temperature: 60° C. Maximum intermittent temperature: 90° C.
Upon ordering, please specify: model, size, working pressure, thread/flange standard and type of liquid	

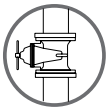
Valve Selection Options

Optional addition	Schrader valve for measuring local line pressure
Valve connection	Threaded male BSPT/NPT - 3/4", 1" Threaded female BSPT/NPT - 2", 3"
Standard materials	Polypropylene - 3/4", 1" Reinforced Nylon - 2", 3"



The valve installed under the air valve must be fully open to prevent damage or malfunction and ensure performance within the specifications of the air valve.

For complete installation instructions, please refer to the IOM document.



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Dimensions and Weight

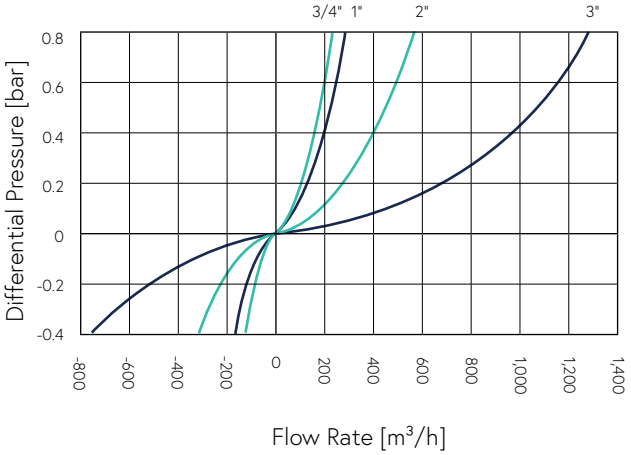
Size	Dimensions (mm)		Weight (kg)	Orifice Area (mm^2)
	max. A	B		
3/4" (20mm), 1" (25mm) THR	60	124	0.1	314
2" (50mm) THR	73	122	0.2	800
3" (80mm) THR	104	165	0.6	2000

THR - Threaded

NOTE
Dimension A in the picture and in the table shows the maximum product width. This width can be reduced by changing the cover direction. All product weights are approximate, due to the differences in flange standards, materials and variable accessories.

Flow Charts

Air & Vacuum Flow Rate



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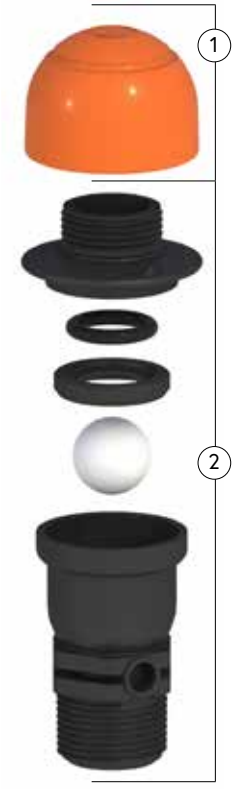
Parts List and Specifications | 3/4", 1"

No.	Part	Material
1	Cover	Polypropylene
2	Body Assembly	
2a	Connector	Polypropylene
2b	O-ring	NBR
2c	Ring	Polypropylene
2d	Float	Polypropylene
2e	Body	Polypropylene



Parts List and Specifications | 2", 3"

No.	Part	Material
1	Cover	Polypropylene
2	Body Assembly	
2a	Body	Reinforced Nylon
2b	Seal	EPDM
2c	Float	Reinforced Nylon
2d	Disc	Reinforced Nylon

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