△ A.R.I. S-021





Automatic Air Valve - Raw, Reclaimed & Non-potable Water

> Description

A.R.I. S-021 is an ultra-compact, automatic Air Release Valve installed on pressurized raw, reclaimed and non-potable water transmission systems. The valve releases accumulated air - improving pipeline hydraulic efficiency by reducing head losses and improving flow. The unique body shape of the valve, enables a continuous air gap that separates the liquid from the sealing mechanism and helps to avoid deposits or blockage.

Installation

Water with low concentrations of suspended solids:

- Reclaimed & raw water pumps
- Transmission pipelines with low concentrations of suspended solids in liquid
- On liquid transmission pipelines
- Upstream of filtration systems







Automatic Air Release

One Way Out

△ A.R.I. S-021



Features and Benefits

Conical body shape & unique design	maximum air gap / minimum body length
Continuous air gap	separates the liquid from the sealing mechanism
Float assembly & sealing mechanism linkage	free movement, turbulence will not unseal the sealing mechanism
Funnel-shaped lower body	residue matter falls back into the system pipeline
Rolling seal	leak-free sealing over wide range of pressure differentials
All parts are suitable for corrosive liquid and environment	non-corrosive and durable
Тар	releases pressure and drains valve prior to maintenance

Technical Specifications

Size range	1" - 2".	
Sealing pressure range	Sealing pressure range: 0.1 - 10 bar (PN10) Testing pressure: 1.5 times maximum working pressure	
TemperatureMaximum working temperature: 60° C. Maximum intermittent temperature: 90° C.		
Upon ordering, please spec	; cify: model, size, working pressure, thread / flange standard and type of liquid	

Valve Selection Options

Valve connection	Threaded male BSPT/NPT or Flanged ends to meet various requested standard	
Optional add-on components	One-way Out attachment, allows for air discharge only, prevents air intake	

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.

A.R.I. S-021



> Dimensions and Weight

Size	Dimensions (mm)		Connections	Weight (kg)	Orifice Area (mm ²)
	А	В	С		
1" (25mm) THR	216	323	3/8" BSP F	1.7	7.8
1" (25mm) FL	216	331	3/8" BSP F	1.9	7.8
2" (50mm) THR	216	324	3/8" BSP F	1.8	7.8
2" (50mm) FL	216	328	3/8" BSP F	2.1	7.8

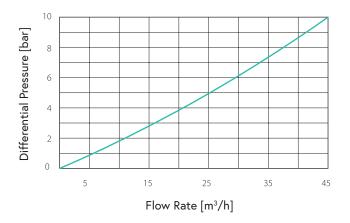
NOTE

All product weights and dimensions are approximate, due to the differences in flange standards, materials and variable accessories.





Automatic Air Release Flow Rate



△ A.R.I. S-021



Parts List and Specifications

Part	Material		
1. Air Valve Body Assembly			
1a. Body	Reinforced Nylon		
1b. Discharge Elbow	Polypropylene		
2. Seal Assembly			
2a. Rolling Seal	EPDM		
2b. Float Connector	Foamed Polypropylene		
2c. Clamping Stem	Reinforced Nylon		
3. Body Assembly			
3a. O-Ring	NBR		
3b. Body	Reinforced Nylon		
4. Float Assembly			
4a. Domed Nut	Stainless Steel 316		
4b. Stopper	Polypropylene		
4c. Spring	Stainless Steel 316		
4d. Float & Rod	Foamed Polypropylene + Stainless Steel 316		
5. Base Assembly			
5a. O-Ring	NBR		
5b. Clamp Assembly	Reinforced Nylon + Stainless Steel 316		
5c. Base	Reinforced Nylon		
5d. Tap	Brass, Nickel Plated / Stainless Steel 316		



www.aquestia.com info@aquestia.com