

A.R.I. S-010



Industry

Automatic Air Release Valve

Description

A.R.I. S-010 is an Automatic Air Release Valve. Installed on pressurized liquid transmission systems, the Air Valve is designed to release accumulated air, optimizing pipeline hydraulic efficiency by reducing head losses and improving flow.

Applicable for: Desalination & Seawater, Mines, Marine - Ballast Water, Oil & Gas, Food Industry, Power Plant Cooling, CBM, Hydro / Thermal Power.

Installation


- On high-pressure pumps
- On high-pressure transmission pipelines

Operation



Automatic Air Release

Features and Benefits

Simple product design with direct sealing mechanism	Easy to install and maintain
	No need to disconnect the valve from the main line for maintenance
	Reduces downtime
Aerodynamic design	Discharges air, while system is under pressure
	Saves energy and increases system efficiency
Construction materials	Non-corrosive and durable
 ATEX certified air valves	Certification is conditional upon the customer connecting the designated part on the product to a dedicated ground connection point

Technical Specifications

Size range	½" ¾" 1"
Workin pressure range	0.1-10 bar (PN10) 0.2-16 bar (PN16)
Testing pressure	1.5 times maximum working pressure
Temperature	Maximum working temperature: 60° C Maximum intermittent temperature: 90° C For higher temperatures up to 130° C, upon request

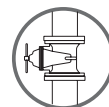
Upon ordering, please specify: model, size, working pressure, thread/flange standard and type of liquid

Valve Selection Options

Valve connection	Threaded male BSPT/NPT Flanged ends to meet various requested standards
Standard materials	Cast Stainless Steel
Pressure rating	PN10/PN16

The isolation 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.

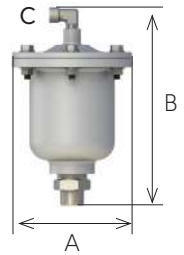
For complete installation instructions, please refer to the IOM document.



Dimensions and Weight

Size	Dimensions (mm)		Connections	Weight (kg)	Orifice Area (mm ²)
	max. A	B			
1/2" 3/4" 1"	132.5	199	1/4" BSP Female	3.5	0.785

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



Parts List and Specifications

No.	Part	Material
1	Cover Assembly	
1a	Discharge Outlet	Stainless Steel 316
1b	Cover	Stainless Steel 316
2	Float & Orifice Assy.	
2a	Nozzle	EPDM / Viton
2b	Float	Stainless Steel 316
2c	Screen Basket	Stainless Steel 316
3	Body Assembly	
3a	O-ring	EPDM / Viton
3b	Bolts, Nuts & Washers	Stainless Steel 316
3c	Body	Stainless Steel 316
3d	Nipple	Stainless Steel 316



Flow Charts

Automatic Air Release Flow Rate

