

A.R.I. S-010 HC

 **Aquestia**
Directing the Flow



Waterworks

High-capacity, Automatic Air Release Valve

Description

A.R.I. S-010 HC is a high-capacity 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.

Installation




- On pumps
- On liquid conveyance pipelines

Operation



Automatic Air Release

Features and Benefits

Flow cross sections	Maximum flow
Simple product design	Easy to install and maintain
	No need to disconnect the valve from the main line for maintenance
	Reduces downtime
Aerodynamic design	High-capacity air discharge, while system is under pressure
	Saves energy and increases system efficiency
Construction materials	Non-corrosive and durable
Air Release Valve rolling seal	Leak-free sealing over a wide range of pressure differentials
Air Release Valve orifice	Large orifice diameter
	High flow air release, lessens obstruction by debris
 ATEX certified air valves	ATEX certified air valves are optional by customer request. Certification is conditional upon the customer connecting the designated part on the product to a dedicated ground connection point
 NSF/ANSI/CAN 61 certified & listed	For drinking water system component
 NSF/ANSI 372 certified & listed	Conforms with lead content requirements for "lead-free" plumbing

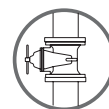
Technical Specifications

Size range	¾" 1"
Sealing pressure range	0.1-10 bar (PN10) / 0.2-16 bar (PN16) / 0.2-25 bar (PN25)
Testing pressure	1.5 times maximum working pressure
Temperature	Maximum working temperature: 60° C. Maximum intermittent temperature: 90° C.
Valve coating	Fusion bonded epoxy coating in compliance with standard DIN 30677-2

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

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.

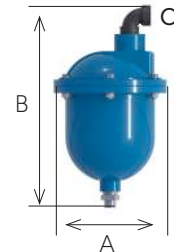


Valve Selection Options

Models	A.R.I. S-010 HC A.R.I. S-012 HC
Valve connection	Threaded male BSPT/NPT
Standard materials	Cast Ductile Iron, Cast Steel, Cast Stainless Steel
Optional add-on components	One-way Out attachment, allows for air discharge only, prevents air intake
Pressure rating	PN10 / PN16 / PN25

Dimensions and Weight

Model	Dimensions (mm)		Connections	Weight (kg)	Orifice Area (mm ²)
	max. A	B			
S-010 HC PN10	250	451	1" BSP Female	16.5	100
S-010 HC PN16	250	451	1" BSP Female	16.5	70
S-012 HC PN25	250	451	1" BSP Female	16.5	40



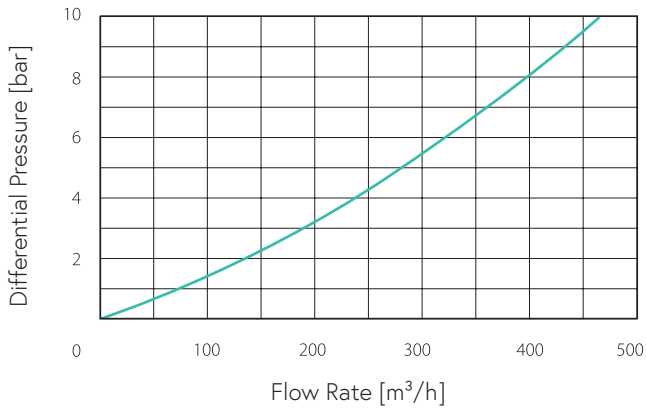
NOTE

Dimension A in the picture and in the table shows the maximum product width.

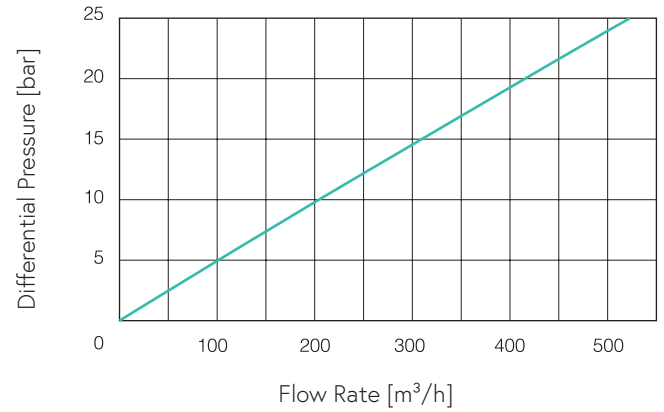
All product weights are approximate, due to the differences in flange standards, materials and variable accessories.

Flow Charts

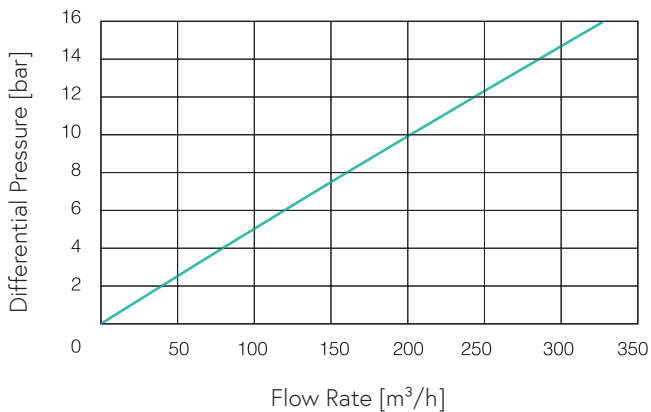
A.R.I. S-010 HC PN10 orifice 100mm²
Automatic Air Release Flow Rate



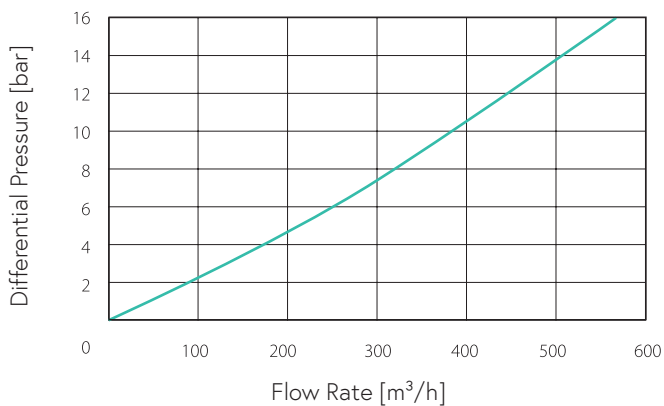
A.R.I. S-012 HC PN25 orifice 40mm²
Automatic Air Release Flow Rate



A.R.I. S-010 HC PN16 orifice 40mm²
Automatic Air Release Flow Rate



A.R.I. S-010 HC PN16 orifice 70mm²
Automatic Air Release Flow Rate



Parts List and Specifications

No.	Part	Material
1	Cover Assembly	
1a	Discharge Outlet	Polypropylene
1b	Coupling	Polypropylene
1c	Bolt	Stainless Steel 316
1d	Cover	Ductile Iron
2	Float & Orifice Assy.	
2a	O-ring	NBR / EPDM
2b	Nozzle	Reinforced Nylon
2c	Rolling Seal	EPDM
2d	Lever	Reinforced Nylon
2e	RollPin	Stainless Steel 304
2f	Float	Polypropylene
3	Body Assembly	
3a	O-ring	NBR / EPDM
3b	Bolts, Nuts & Washers	Steel / Stainless Steel 316
3c	Body	Ductile Iron
3d	Nipple	Brass / Stainless Steel 316

