







Automatic Air Release Valve Series

Description

A.R.I. S-050 is an Automatic Air Release Valve Series that releases accumulated air from a pressurized system, to optimize pipeline hydraulic efficiency by reducing head losses and improving flow.

Installation

- On pumps
- On liquid transmission pipelines
- After filters & pressure reducers

Operation



Automatic Air Release





Features and Benefits

Rolling seal	lling seal Leak-free sealing over a wide range of pressure differentials	
One-size orifice Covers a wide pressure range (up to 25 bar)		
Nylon strainer	trainer Prevents plugging from debris	
Construction materials	UV resistant, non-corrosive and durable	
ightweight, small dimensions Easily installed, even on polymeric piping systems, simple to maintain		
Inique body and float design Seals at very low pressure (A.R.I. S-050 L)		
Continual air gap Separates the liquid from the sealing mechanism (A.R.I. S-050 L)		

Technical Specifications

Size range	1/2" 3/4" 1"	
Working pressure range	A.R.I. SG-10	
Temperature	Maximum working temperature: 60° C Maximum intermittent temperature: 90° C	
Testing pressure	1.5 times maximum working pressure	
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.









Models	A.R.I. SG-10 A.R.I. S-050 A.R.I. S-050 L Specifically designed to operate with liquids containing small suspended solids		
Valve connection	Threaded male BSPT/NPT		
Standard materials	Reinforced Nylon, Polypropylene, Stainless Steel 316		
Optional add-on components	One-way Out attachment, allows for air discharge only, prevents air intake		
Pressure rating	PN10 A.R.I. SG-10 A.R.I. S-050 L PN16 A.R.I. S-050 A.R.I. S-050 L		

A.R.I. S-050 L

Dimensions and Weight

Model	Dimensions (mm)		Connections	Weight (kg)	Orifice Area (mm²)
	max. A	В	С		
A.R.I. S-050 / A.R.I. SG-10	87	143	1/8" BSP Female	0.3	12
A.R.I. S-050 L	88	223	1/8" BSP Female	0.34	12

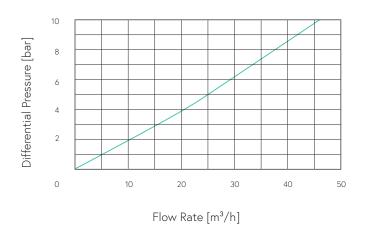


Dimension A in the picture and in the table shows the maximum product width.

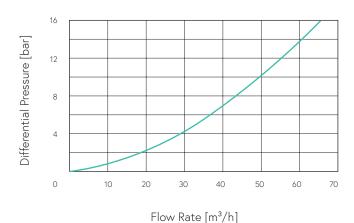
All product weights are approximate, due to the differences in flange standards, materials and variable accessories.

Flow Charts

PN10 Automatic Air Release Flow Rate



PN16 Automatic Air Release Flow Rate

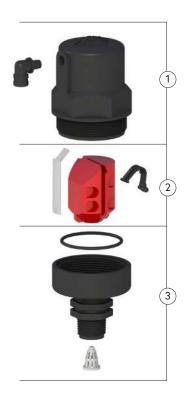






Parts List and Specifications

No.	Part	Material
1	Cover Assembly	
1a	Discharge Outlet	Polypropylene
1b	Body	Reinforced Nylon / Polypropylene
2	Air Release Assembly	
2a	Clamping Stem	Reinforced Nylon / Polypropylene
2b	Float	Foamed Polypropylene
2c	Rolling Seal	EPDM
3	Base Assembly	
3a	O-ring	NBR
3b	Base	Reinforced Nylon / Polypropylene / Stainless Steel
3с	Strainer	Reinforced Nylon



NOTE

Polypropylene for PN10 models only





Parts List and Specifications

No.	Part	Material
1	Cover Assembly	
1a	Discharge Outlet	Polypropylene
1b	Body	Reinforced Nylon / Polypropylene
2	Air Release Assembly	
2a	Clamping Stem	Reinforced Nylon / Polypropylene
2b	Float	Foamed Polypropylene
2c	Rolling Seal	EPDM
3	Extension Assembly	
3a	Extension	Reinforced Nylon / Polypropylene
3b	O-ring	NBR
4	Base Assembly	
4a	O-ring	NBR
4b	Base	Reinforced Nylon / Polypropylene
4c	Strainer	Reinforced Nylon

NOTE

Polypropylene for PN10 models only

