







Automatic Air Release Valve

Description

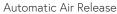
A.R.I. S-050 Series is an Automatic Air Release Valve that releases accumulated air from a pressurized system, to optimize pipeline hydraulic efficiency by reducing head losses and improving flow.

Installation

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

Operation







One Way Out





Features and Benefits

	·
Rolling seal	leak-free sealing over a wide range of pressure differentials
One-size orifice	covers a wide pressure range (up to 16 bar)
Nylon strainer	prevents plugging from debris
All parts are suitable for corrosive liquid and environment	non-corrosive and durable parts
Lightweight, small dimensions	easily installed, even on polymeric piping systems, simple to maintain
Unique body and float design	seals at very low pressure (S-050 L)
Continual air gap	separates the liquid from the sealing mechanism (S-050 L)
ATEX certified air valves	certification is conditional on the customer connecting the designated part on the product to a dedicated ground connection point.

Technical Specifications

Size range	1/2" 3/4" 1"	
Sealing pressure range	A.R.I SG-10 A.R.I S-050 L A.R.I S-050 A.R.I S-050 L	0.1 - 10 bar (PN10) 0.02 - 10 bar (PN10) 0.2 - 16 bar (PN16) 0.05 - 16 bar (PN16)
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 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, Cast Ductile Iron Shell	
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

A.R.I. S-050

Dimensions and Weight

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

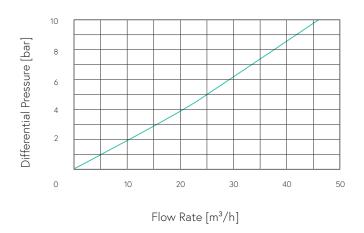


Dimension A in the picture and in the table shows the maximum product width.

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

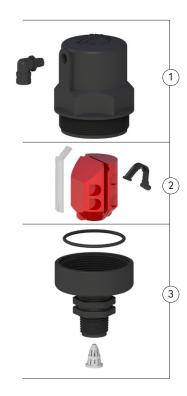






Parts List and Specifications

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 / VITON
3	Base Assembly	
3a	O-Ring	NBR / VITON
3b	Base	Reinforced Nylon / Polypropylene
3c	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

