









Automatic Air Release Valve

Description

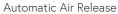
A.R.I. S-050 Series is an Automatic Air Release Valve that releases accumulated air from a pressurized system, to optimize pipeline hydraulic efficiency by reducing head losses and improving flow.

Installation

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

Operation







One Way Out





Features and Benefits

leak-free sealing over a wide range of pressure differentials
covers a wide pressure range (up to 25 bar)
prevents plugging from debris
non-corrosive and durable parts
easily installed, even on polymeric piping systems, simple to maintain
seals at very low pressure (S-050 L)
separates the liquid from the sealing mechanism (S-050 L)
certification is conditional on the customer connecting the designated part on the product to a dedicated ground connection point.
for drinking water system component
Lead-free product

Technical Specifications

Size range	1/2" 3/4" 1"	
Sealing pressure range	A.R.I S-050 / ARI S-050 C A.R.I S-050 L A.R.I S-050 / ARI S-050 C A.R.I S-050 L A.R.I S-052	1.5 - 150 psi (150 psi) 0.3 - 150 psi (150 psi) 3 - 250 psi (250 psi) 0.725 - 250 (250 psi) 3 - 360 psi (360 psi)
Temperature	Maximum working temperature: 140° F. Maximum intermittent temperature: 194° F.	
Testing pressure	1.5 times maximum working pressure	
Valve coating	Fusion bonded epoxy coating in compliance with standard DIN 30677-2 (Model A.R.I. S-050 C, A.R.I. S-052)	
Upon ordering, please spe	ecify: model, size, working pressure, th	read/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.





> Valve Selection Options

Models	A.R.I. S-050 A.R.I. S-050 L Specifically designed to operate with liquids containing small suspended solids A.R.I. S-050 C Protective metal shell A.R.I. S-052 Protective metal shell		
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	150 psi A.R.I S-050 / A.R.I S-050 L / ARI S-050 C 250 psi A.R.I S-050 / A.R.I S-050 L / ARI S-050 C 360 psi A.R.I S-052		







A.R.I. S-050 C A.R.I. S-052



A.R.I. S-050 L

Dimensions and Weight

Model	Dimensions (inch)		Connections	Weight (Lbs.)	Orifice Area (Sq.in)
	max. A	В	С		
Nylon Models					
S-050	3.9	5.5	1/8" NPT Female	0.66	0.018
S-050 L	3.46	8.77	1/8" NPT Female	0.75	0.018
Metal Models					
S-050 C	3.3	5.8	1/8" NPT Female	3.63	0.018
S-052	3.3	5.8	1/8" NPT Female	3.63	0.014



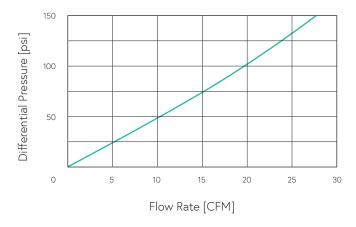
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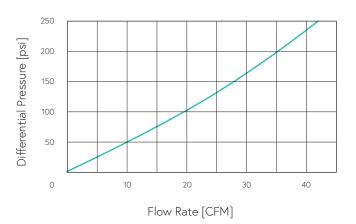


Flow Charts

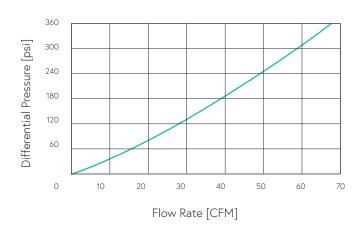
150 psi Automatic Air Release Flow Rate



250 psi Automatic Air Release Flow Rate



360 psi 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	
За	O-Ring	NBR
3b	Base	Reinforced Nylon / Polypropylene / Stainless Steel
3с	Strainer	Reinforced Nylon



NOTE

Polypropylene for PN10 models only

△ A.R.I. S-050 L



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







> Parts List and Specifications

No.	Part	Material
1	Cover Assembly	
1a	Discharge Outlet	Brass
1b	O-Ring	NBR
1c	Shell	Ductile Iron
2	Body	Reinforced Nylon
3	Air Release Assembly	
3a	Clamping Stem	Reinforced Nylon / Polypropylene
3b	Float	Foamed Polypropylene
3с	Rolling Seal	EPDM
3d	O-Ring	NBR
4	Base	Brass / Stainless Steel

