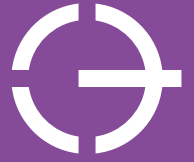


A.R.I. S-025



Wastewater

Automatic Air Release Valve for Wastewater

Description

A.R.I. S-025 is an Automatic Air Release Valve installed on pressurized wastewater transmission systems. The valve releases accumulated air from a pressurized system, to optimize pipeline hydraulic efficiency by reducing head losses and improving flow. The unique body shape of the valve, enables a continuous air gap that separates the wastewater from the sealing mechanism and helps to avoid deposits or blockage.

Installation


- Wastewater & water treatment plants
- Wastewater and effluent water transmission lines

Operation



Automatic
Air Release

Features and Benefits

Conical body shape & unique design	Maximum air gap, minimum body length
Continuous air gap	Separates the liquid from the sealing mechanism
Float assembly and sealing mechanism linkage	Free movement, turbulence will not unseal the sealing mechanism
Funnel-shaped lower body	Residue matter falls back into the system pipeline
Rolling seal	Leak-free sealing over a wide range of pressure differentials
Construction materials	UV resistant, non-corrosive and durable
Ball valve	Releases pressure and drains valve prior to maintenance
 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.

Technical Specifications

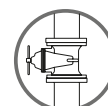
Size range	2" - 4"
Working pressure range	0.2 - 10 bar (PN10) Testing pressure: 1.5 times maximum working pressure
Temperature	Maximum working temperature: 60° C Maximum intermittent temperature: 90° C
Valve coating	Fusion bonded epoxy coating in compliance with standard DIN 30677-2
Upon ordering, please specify: model, size, working pressure, thread / flange standard and type of liquid	

Valve Selection Options

Valve connection	Valve connections: flanged or threaded BSP/NPT Flanged ends to meet various requested standards
Standard materials	Welded/Cast Steel body, optional: Stainless Steel
Optional add-on components	One-way Out - allows for air discharge only, prevents air intake

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)
	A	B	C		
2" (50mm) THR	246	424	1/8" BSP F	3.8	12
2" (50mm) FL	246	429	1/8" BSP F	4.2	12
3" (80mm) THR	245.1	424.4	1/8" BSP F	4.02	12
3" (80mm) FL	245.1	429.9	1/8" BSP F	4.7	12
4" (100mm) THR	245.7	424.4	1/8" BSP F	4.07	12
4" (100mm) FL	245.7	430.4	1/8" BSP F	4.96	12

THR - Threaded FL - Flanged

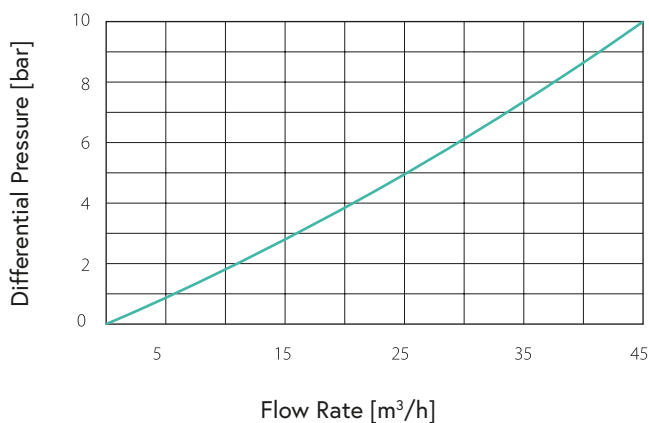
NOTE

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



Flow Charts

Automatic Air Release Flow Rate



Parts List and Specifications

No.	Part	Material
1	Air Release Valve Body Assembly	
1a	Air Release Elbow	Polypropylene
1b	Body	Reinforced Nylon / Stainless Steel 316
1c	O-ring	NBR
1d	Adaptor	Reinforced Nylon / Polypropylene + Acetal + Stainless Steel
2	Seal Assembly	
2a	Rolling Seal	EPDM
2b	Float Connector	Foamed Polypropylene
2c	Clamping Stem	Reinforced Nylon
3	Body Assembly	
3a	O-ring	NBR
3b	Body	Reinforced Nylon / Ductile Iron
4	Float Assembly	
4a	Domed Nut	Stainless Steel 316
4b	Stopper	Polypropylene
4c	Spring	Stainless Steel 316
4d	Float & Rod	Foamed Polypropylene + Stainless Steel 316
5	Base Assembly	
5a	O-ring	NBR
5b	Clamp Assembly	Reinforced Nylon + Stainless Steel 316
5c	Base	Reinforced Nylon / Stainless Steel 316
5d	Tap	Brass / Stainless Steel

