

A.R.I. S-025



Wastewater

Automatic Air Release Valve for Wastewater - Short Version

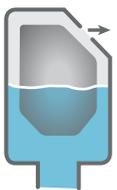
Description

The S-025 is a compact automatic air release valve installed on pressurized wastewater transmission systems to release accumulated air - improving pipeline hydraulic efficiency by reducing head losses and improving flow. A continuous air gap in the valve body separates the wastewater from the sealing mechanism.

Installation

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

Operation



Automatic
Air Release



One Way out

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 unseat the sealing mechanism
Funnel-shaped lower body	residue matter falls back into the system pipeline
Rolling Seal	leak-free sealing over wide range of pressure differentials
All parts - stainless steel 316, polymer, rubber materials	non-corrosive and durable
Ball valve	releases pressure and drains valve prior to maintenance

Technical Specifications

Size Range	2" - 4"
Sealing 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

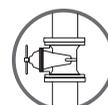
Upon ordering, please specify: model, size, working pressure, thread / flange standard and type of liquid

Valve Selection Options

- Connections: threaded BSP/NPT or flanged
- Flanged ends to meet any requested standard
- Optional Add-on Component:
One-way, Out-only attachment, allows for air discharge only, prevents air intake

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.



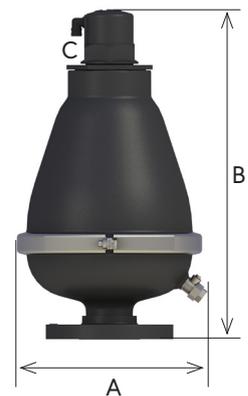
Dimensions and Weight

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

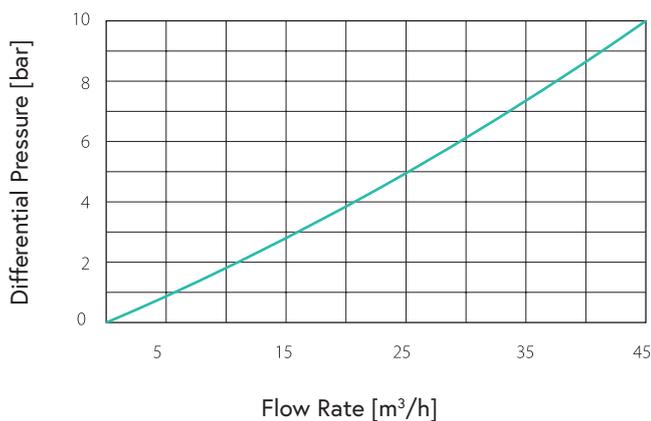
NOTE

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 Specification

Part	Material
1. Air Release Valve Body Assembly	
1a. Air Release Elbow	Polypropylene
1b. Body	Reinforced Nylon / Stainless Steel 316
1c. O-Ring	BUNA-N
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	BUNA-N
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	BUNA-N
5b. Clamp Assembly	Reinforced Nylon + Stainless Steel 316
5c. Base	Reinforced Nylon / Stainless Steel 316
5d. Tap	Brass / Stainless Steel

