









High Capacity Automatic Air Release Valve

Description

The S-020, 022, 024 HC are high capacity automatic air release valves 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

- Pump stations for sewage, wastewater & water treatment plants
- Wastewater and effluent water transmission lines

Operation





Automatic Air Release One Way out





Features and Benefits

maximum air gap / minimum body length
separates the liquid from the sealing mechanism
free movement, turbulence will not unseal the sealing mechanism
high capacity air release
residue matter falls back into the system pipeline
leak-free sealing over wide range of pressure differentials
covers a wide pressure range (up to 40 bar)
non-corrosive and durable
releases pressure and drains valve prior to maintenance

Technical Specifications

Size Range	2" - 4"					
Sealing pressure range	S-020 HC					
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 spe	cify: model, size, working pressure, thread / flange standard and type of liquid					

Valve Selection Options

- 2" valve connections: threaded BSP /NPT or flanged
- Flanged ends to meet any requested standard
- Welded / casted bodies: steel or stainless steel
- Valve coating: Fusion bonded epoxy coating in compliance with standard DIN 30677-2
 Other coatings are available upon request
- 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.

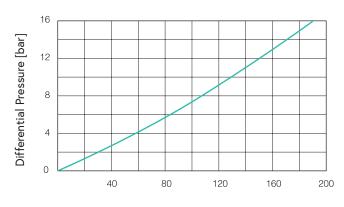
△ A.R.I. S-020 HC





S-020 HC PN 16

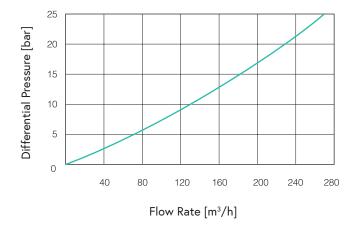
Automatic Air Release Flow Rate



Flow Rate [m³/h]

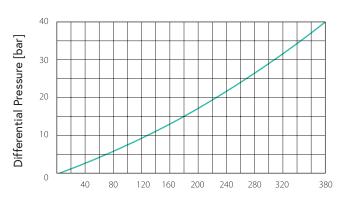
S-022 HC PN 25

Automatic Air Release Flow Rate



S-024 HC PN 40

Automatic Air Release Flow Rate



Flow Rate [m³/h]

△ A.R.I. S-020 HC



Dimensions and Weight

Size	Dimensions (mm)		Connections	Weight (kg)	Orifice Area (mm²)
	Α	В	С		
2" (50 mm) THR	271	603	1"	16	40
2" (50 mm) FL	271	603	1"	16.5	40
3" (80 mm) THR	271	603	1"	16.7	40
3" (80 mm) FL	271	603	1"	16.7	40
4" (100 mm) FL	271	603	1"	17.2	40



THR - Threaded

- Flanged

NOTE

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



Parts List and Specification

Part	Material
1. Cover Assembly	
1a. Air Release Elbow	Polypropylene
1b. Cover	Reinforced Nylon / Steel Din St.37
2. Seal Assembly	
2a. Air Release Orifice	Reinforced Nylon
2b. Lever	Reinforced Nylon
2c. Rolling Seal	EPDM
3. Float Assembly	
3a. Nut & Washer	Stainless Steel 316
3b. Spring	Stainless Steel 316
3c. Float & Rod	Polypropylene / Stainless Steel 316 & Stainless Steel 316
4. Body Assembly	
4a. O-Ring	BUNA-N
4b. Body	Cast Steel
4c. Ball Valve	Brass, Chrome Coated / Stainless Steel 316

