△ A.R.I. D-025L





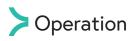
Combination Air Valve for Wastewater

> Description

The D-025L is a reduced bore compact combination air valves installed on a wastewater transmission system to increase pipeline efficiency and reduce energy requirements by improving the hydraulic operation of the system. 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

















Air Intake

Automatic Air Release

One Way out

One Way In

Non Slam

△A.R.I. D-025L



Features and Benefits

Conical body shape & unique design	maximum air gap / minimum body length		
Built-in 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 Mechanism	leak-free sealing over wide range of pressure differentials		
Body and internal parts - high-strength UV resistant reinforced composite and rubber materials	non-corrosive and durable		
Screened threaded outlet	compatible for vent pipe connection, prevents insect intrusion		
Dynamic design	high capacity air discharge, no premature closure		
Тар	releases pressure and drains valve prior to maintenance		

Technical Specifications

Size Range	2" - 4""			
Sealing pressure range	0.05 - 16 bar (PN 16) Testing pressure: 1.5 times maximum working pressure			
Temperature	Maximum working temperature: 60° C Maximum intermittent temperature: 90° C			
Valve coating	oating Fusion bonded epoxy coating in compliance with standard DIN 30677-2			
Upon ordering, please spe	crify: model, size, working pressure, thread / flange standard and type of liquid			

Valve Selection Options

- Connections: threaded BSP/NPT, flanged
- Flanged ends to meet any requested standard
- Standard: reinforced nylon body, optional: stainless steel
- Optional Add-on Components:
 One-way, Out-only attachment, allows for air discharge only, prevents air intake
 Vacuum Breaker, In-only attachment, allows for air intake only, prevents air discharge
 Non-Slam discharge-throttling attachment, allows for free air intake, throttles air discharge
- Additional Product Configurations:
 SB Underground Air Valve System
 ARISENSE Air Valve Monitoring System

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.





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> Non-Slam Add-on Component Data Table for Variable Orifices

Size	Discharge orifice (mm)	Total NS area (mm²)	NS orifice (mm)	Switching point (bar)	Flow at 0.4 bar (m³/h)
2" (50mm)					
3" (80mm)	37.5	12.6	4	Spring loaded normally closed	23
4" (100mm)					

Dimensions and Weight

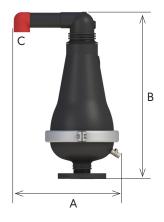
Size	Dimensions (mm)		Connections	Weight (kg)		Orifice Area (mm ²)	
	maximum A	В	С	RN	ST ST	A / V	Auto.
2" (50mm) THR	365	566	11⁄2" BSP F	16.5	12.6	804	12
2" (50mm) FL	365	571	11⁄2" BSP F	17.5	15.0	804	12
3" (80mm) THR	365	566	11⁄2" BSP F	16.9	12.9	804	12
3" (80mm) FL	365	571	11⁄2" BSP F	18.5	16.3	804	12
4" (100mm) FL	365	582	11⁄2" BSP F	19.5	17.9	804	12

THR - Threaded

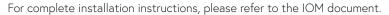
FL - Flanged

NOTE

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



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.

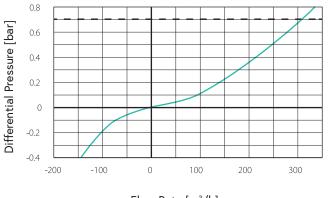




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> Flow Charts

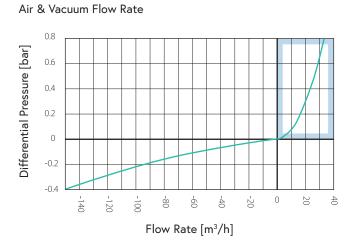


Air & Vacuum Flow Rate

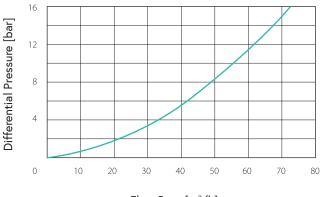
Flow Rate [m³/h]

– – – – Max. recommended design air discharge

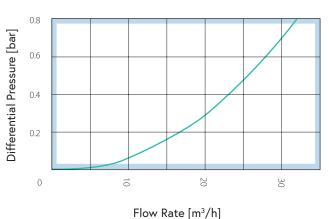
D-25 L NS



Automatic Air Release Flow Rate



Flow Rate [m³/h]



Air Discharge Flow Rate

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> Parts List and Specification

Part	Material		
1. Air Valve Body Assembly			
1a. Body	Reinforced Nylon		
1b. Extension	Polypropylene / Cast Stainless Steel		
1c. Discharge Elbow	Polypropylene		
1d. Non-Slam Component (Optional)	Reinforced Nylon / Polypropylene + Acetal + Stainless Steel		
2. Seal Assembly			
2a. Rolling Seal Assembly	Nylon + EPDM + Stainless Steel		
2b. Float Connector	Foamed Polypropylene		
2c. Clamping Stem	Reinforced Nylon		
3. Body Assembly			
3a. O-Ring	BUNA-N		
3b. Body	Reinforced Nylon / Cast Stainless Steel		
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	Cast Stainless Steel		
5c. Base	Reinforced Nylon / Cast Stainless Steel		
5d. Tap	Bronze / Stainless Steel 316		
5e. Flange (Optional)	Reinforced Nylon / Cast Stainless Steel		



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