



Wastewater

Underground Air Valve System for Wastewater

Description

A sub-surface valve system with an enclosed air valve of choice and is buried below ground. The specifically designed internal gear box operated shut-off valve is equipped with a safety mechanism that enables the disconnection, removal and above-ground maintenance of the air valve from the sub-surface housing, even when the pipeline system is still under pressure.

Installation

- Wastewater and effluent water transmission lines
- Freezing Conditions areas
- Rural areas -provides protection against damage and vandalism
- Urban Areas - integrated with existing sub surface municipal infrastructures

Important Information:

Prior to site preparation and installation, please refer to the Installation and Maintenance Manual for all the relevant instructions and information. The manual can be obtained by contacting the A.R.I marketing dept., from your local A.R.I. distributor or downloading the file from our website.



Features and Benefits

Integral gear box operated sliding disc shut-off valve	no need for manhole entry to operate the valve
Accessibility	easy above ground operation
Safety elements	<ul style="list-style-type: none"> - extracting the air valve is safeguarded against removal under pressure - operated and maintained entirely from ground level
Low installation costs	no need for expensive large excavation or human-accessible manholes
Low maintenance costs	<ul style="list-style-type: none"> - no need for specialized tools or safety equipment - one-person operation and maintenance - clean and environmentally friendly - complete service and maintenance system for easy back flushing and servicing - reduced need for spare changeable valves
All connections utilize quick connectors	facilitate easy usage during handling and maintenance
All parts are made from stainless steel, ductile iron, steel, composite materials	non-corrosive and durable

Technical Specifications

Size Range	3" - 4"
Sealing pressure range	up-to 25 bar, according to the air-valve pressure rating 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

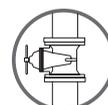
Upon ordering, please specify: model, size, working pressure, thread / flange standard and type of liquid

Valve Selection Options

- Connections: threaded BSP/NPT (3"), flanged
- Flanged ends to meet any requested standard
- Two different installation lengths: 800 / 1000 mm tube

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.



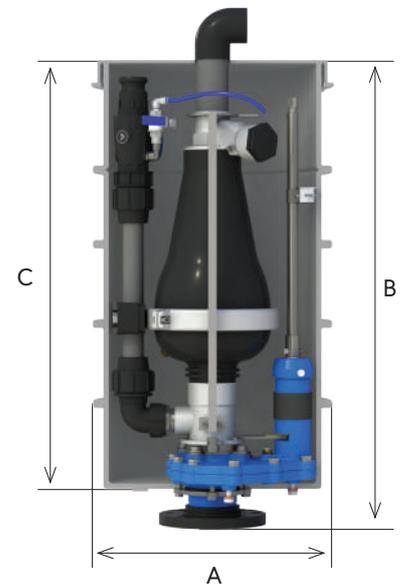
➤ Dimensions and Weight

Model	Size	Dimensions (mm)			Weight (kg)	
		A	B	C	Steel Air Valve	RN Air Valve
D-020 SB	2" (50mm)	500	875 / 1075	806 / 1006	46.8 / 49.8	-
	3" (80mm)	500	1010 / 1210	806 / 1006		
D-025 SB	2" (50mm)	500	875 / 1075	806 / 1006		36.3 / 39.3
	3" (80mm)	500	1010 / 1210	806 / 1006		
D-025 L SB	2" (50mm)	500	875 / 1075	806 / 1006		39.3 / 42.3
	3" (80mm)	500	1010 / 1210	806 / 1006		
D-26 SB	2" (50mm)	500	875 / 1075	806 / 1006	47.9 / 57.1	39.3 / 41.0
	3" (80mm)	500	1010 / 1210	806 / 1006	53.5 / 57.3	-
S-025 SB	2" (50mm)	500	875 / 1075	806 / 1006	-	35.5 / 38.5

--/-- Dimention B, C & weight for two lengths models 800/1000

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. Box Assembly			
1a. Discharge Outlet	Polyethylene		
1.b Cover	Polypropylene		
1c. Box	Polypropylene		
1d. Flange 3" 4"	Reinforced Nylon / Stainless Steel 316		
2. Sliding Disc Valve Assembly			
2a. "T" Key	Stainless Steel 304		
2b. Operating Rod	Stainless Steel 304		
2c. Safety valve	Stainless Steel 316		
3. Back Flushing Assembly (optional)			
3a. Ball Valve 1 1/4"	Stainless Steel 304 / Nylon		
3b. Pressure Relief Valve	Stainless Steel 316		
31c. Back Flushing	Polyethylene		
4. Air Valve			
4a. Lifting Handle	Stainless Steel 304		
4b.	Optional Air Valve Models	D-020 2" / 3"	Ductile iron / Stainless Steel 316
		D-025 2" / 3"	Reinforced Nylon / Stainless Steel 316
		D-025 L 2" / 3"	Reinforced Nylon / Stainless Steel 316
		D-26 2"	Reinforced Nylon / Stainless Steel 316
		D-26 3"	Ductile iron / Stainless Steel 316
		S-025 2"	Reinforced Nylon
4c. Adaptor - Quick Connector 3"	Stainless Steel 316		

