



Wastewater

Underground Air Valve System for Wastewater

Description

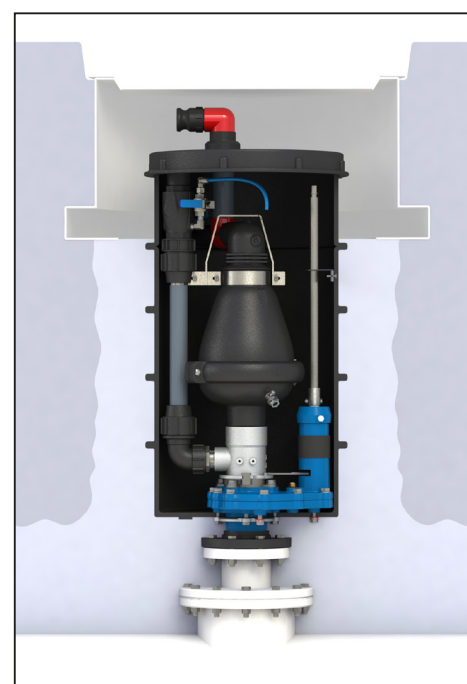
A.R.I. SB, is a Subsurface Valve System for Wastewater that allows you to use a selection of A.R.I. Air Valve models designed for underground systems. It features above-ground valve maintenance to eliminate the hazards of confined space operation.

Installation


- Wastewater and effluent water transmission lines
- Harsh or freezing conditions
- Rural areas - provides protection against damage or vandalism
- Urban areas - integrates with existing subsurface municipal infrastructure

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 Aquestia marketing dept., from your local Aquestia distributor or downloading the file from our website.



Features and Benefits

Compact submerged vault assembly	Eliminates need for large human-accessible manholes and the associated costs of excavation, installation and specialized safety gear
	Reduces costs in installation, maintenance, manpower and minimizes downtime
	Dampens air valve operating noise
Integral gear box shut-off valve	No need for confined-space entry to operate the valve
	Safe and easy above-ground operation and maintenance, performed entirely from ground level
Built-in safety mechanism	Air valve extraction safeguarded against removal under pressure
Back-flushing assembly	Allows convenient servicing operations without removing the air valve from the line
All connections fitted with quick connect/release couplings	Facilitates fast, easy connection and disconnection of fluid lines, for more efficient handling and maintenance
Construction materials	Light-weight and corrosion-resistant
 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	3" - 4"
Working pressure range	up-to 360 psi, according to the air-valve pressure rating Testing pressure: 1.5 times maximum working pressure
Temperature	Maximum working temperature: 140° F Maximum intermittent temperature: 194° F

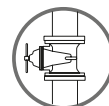
Upon ordering, please specify: model, size, working pressure, thread / flange standard and type of liquid

Valve Selection Options

Valve connection	Threaded NPT or flanged ends to meet various requested standards
Standard installation lengths	Two different installation lengths models: 32 / 40

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

Model	Box Size (inch)	AV Size	Dimensions (inch)		Weight (lbs)		Orifice Area (sq.in)	
			A	B	Steel AV	RN AV	A / V	Auto.
A.R.I. D-020 SB	32	3" (80mm)	20	40.4	105.2	-	1.25	0.018
	40	3" (80mm)	20	48.5	111.1	-	1.25	0.018
A.R.I. D-025 SB	32	3" (80mm)	20	40.4	127.6	101.2	1.25	0.018
	40	3" (80mm)	20	48.5	140.8	114.4	1.25	0.018
A.R.I. D-025 L SB	32	3" (80mm)	20	40.4	116.6	88.0	1.25	0.018
	40	3" (80mm)	20	48.5	125.4	94.6	1.25	0.018
A.R.I. D-26 SB	32	2" (50mm)	20	40.4	105.4	86.5	3.04	0.013
	40	2" (50mm)	20	48.5	125.6	90.2	3.04	0.013
	32	3" (80mm)	20	40.4	117.7	-	7.79	0.024
	40	3" (80mm)	20	48.5	126.1	-	7.79	0.024
A.R.I. S-025 SB	32	2" (50mm)	20	40.4	-	78.1	-	0.018
	40	2" (50mm)	20	48.5	-	84.7	-	0.018

NOTE

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

AV Modeld



D-020



D-025



D-025 L



D-26 2"



D-26 3"



S-025



Parts List and Specifications

No.	Part	Material
1	Chamber Assembly	
1a	Discharge Outlet	Polyethylene
1b	Cover	Polypropylene
1c	Chamber	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	Shut-off 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
3c	Back-flushing	Polyethylene
4	Air Valve	
4a	Lifting Handle	Stainless Steel 304
4b	Optional Air Valve Models	A.R.I. D-020 2" / 3"
		A.R.I. D-025 2" / 3"
		A.R.I. D-025 L 2" / 3"
		A.R.I. D-26 2"
		A.R.I. D-26 3"
		A.R.I. S-025 2"
4c	Adaptor - Quick Connector 3"	Stainless Steel 316

