


**Waterworks**

## Underground Air Valve System for Waterworks

### Description

A Sub-surface Valve System for Waterworks that allows you to select a number of A.R.I. Air Valve models for underground usage. Valve maintenance is performed above ground, reducing the hazards of confined space operation.

### Installation

- Municipal and industrial underground water conveyance systems
- Downstream and upstream of shut-off valves
- Before water meters

#### **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

## Technical Specifications

Size Range	3" - 4"
Working 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

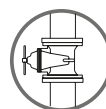
Upon ordering, please specify: model, size, working pressure, thread / flange standard and type of liquid

## Valve Selection Options

Valve connection	Flanged ends to meet various requested standard (2", 3", 4")
Models	Two different installation lengths: 800 / 1000 mm tube

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 (mm)	AV Size	Dimensions (mm)		Weight (kg)	Orifice Area (mm <sup>2</sup> )	
			A	B		A / V	Auto.
A.R.I. D-060 SB	800	3"	500	935	60	5030	12
	1000	3"	500	1140	63	5030	12
A.R.I. D-060 C SB	800	3"	500	935	62	5030	12
	1000	3"	500	1140	64	5030	12
A.R.I. D-062 SB	800	3"	500	935	62	5030	9
	1000	3"	500	1140	64	5030	9
A.R.I. D-060 NS SB	800	3"	500	935	62	5030	12
	1000	3"	500	1140	65	5030	12
A.R.I. D-060 C NS SB	800	3"	500	935	63	5030	12
	1000	3"	500	1140	66	5030	12
A.R.I. D-062 NS SB	800	3"	500	935	63	5030	9
	1000	3"	500	1140	66	5030	9
A.R.I. D-050 SB	800	3"	500	935	59	1960	12
	1000	3"	500	1140	62	1960	12
A.R.I. D-050 C SB A.R.I. D-052 SB	800	3"	500	935	60	1960	12
	1000	3"	500	1140	61	1960	12

### NOTE

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

### AV Modeld



D-050 / D-060



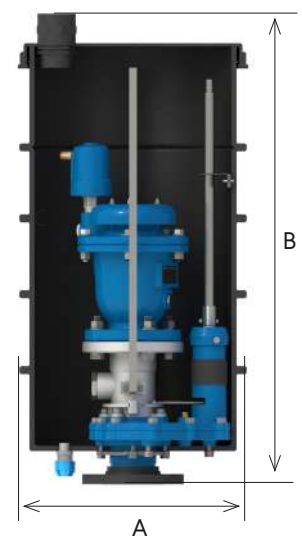
D-050 C / D-052  
D-060 C / D-062



D-060 NS



D-060 C NS / D-062 NS



### 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
1e	Drainage One Way Valve Connection	Polypropylene + Acetal
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	3. Air Valve Assembly	
3a	Lifting Handle	Stainless Steel 304
3b	Air Valve	Ductile iron / Stainless Steel 316
3c	Adaptor - Quick Connector 3"	Stainless Steel 316

