

Date: 27.5.2026

 A.R.I. D-025 ARISENSE

Combination Air Valve

The following is a step-by-step narrated description of the A.R.I. D-025 ARISENSE industrial combination air valve installation, operation and maintenance processes.

The D-025 ARISENSE air valve is designed for systems that operate within the pressure and temperature framework of the model's specifications table. Please consult A.R.I. for products designed for other hazardous liquids systems.

For ATEX Model:

Certification

ATEX Zone 2

II 3G Ex ec mc IIA T6 Gc

Ambient Temperature $-20^{\circ}\text{C} \leq T_a \leq 60^{\circ}\text{C}$ 

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1. SAFETY INSTRUCTIONS

General

1. A.R.I. products always operate as components in a larger system. It is essential for the system designers, installers, operators and maintenance personnel to comply with all the relevant safety standards.
2. Installation, operation or maintenance of the product should be done only by qualified workers, technicians and/or contractors using only good engineering practices, complying with and observing all conventional safety instructions in order to minimize risk and/or danger and/or hazard to workers, the public or to property in the vicinity in accordance with all relevant local standards.
3. Extra safety considerations should be taken with hot and hazardous liquids or in hazardous environments' applications to avoid bodily/physical harm and damage to public or private property.
4. All individuals installing operating and/or handling the products including all workers should at all times adhere with the occupational safety and health (OSH) instructions and wear safety helmets, goggles, gloves, and any other personal safety equipment required by the local standards and regulations.
5. Use only appropriate standard tools and equipment operated by qualified operators when installing, operating and maintaining the product.
6. Prior to installation, operation, maintenance or any other type of action carried out on the product, read carefully the safety, installation and operation instructions of the product.
7. **Please note:**
 - Pressurized fluid and/or gas may be discharged from the product without prior warning. Make sure that the product's outlet port is not directed toward electrical elements (pumps) or people.
 - The pressurized fluid and/or gas that can be discharged from the product may create high noise levels. Take this into consideration when installing the product in areas sensitive to noise.
8. Always open and close valves slowly and gradually.
9. Please note that the maximum working pressure indicated at the product's specifications table doesn't include pressure changes caused by water hammer and pressure surge effects. Use the product only according to its designated pressure rate specifications.
10. Use the product only for its intended use as designed by A.R.I. Any misuse of the product may lead to undesired damages and may affect your warranty coverage. Please consult with A.R.I. prior to any non-regular use of this product and make no change or modification to the product without a prior written consent to be provided by A.R.I. at A.R.I.'s sole discretion.
11. Please note that A.R.I. shall **NOT** assume any liability with respect to any damage losses and/or expenses caused to any person and/or property whatsoever unless the product has been duly installed and thereafter maintained in strict compliance with its designated maintenance Instructions and/or any other installation and operation manuals provided by A.R.I. for the product and/or applicable ordinances and/or codes.
12. Only battery P/N - 0227-GEPTZZQZZ00, purchased from Aquestia, is permitted.

Handling

1. Shipping and handling the product must be done in a safe and stable manner and in accordance with the relevant standards and regulations.
2. For lifting and positioning the product, use only approved lifting equipment operated by authorized employees and contractors.
3. Prior to the installation visually verify that the product was not damaged during shipment to the installation site.

Installation

1. Install the product according to the detailed Installation Instructions provided with it by A.R.I. and according to the description given in this manual.
2. The user should install a manual Isolation Valve under the product's inlet port.
3. In all installation sites the user should enable good visibility and verify that the work and auxiliary equipment used are done in accordance with the relevant local authorized standards. Extra safety considerations should be taken on hazardous environment sites.
4. Check and re-tighten the bolts connecting the product to the pipeline during commissioning and before operating the product for the first time.

Commissioning and operation

1. Read carefully the operation instructions prior to any attempt to operate the product.
2. Observe the safety stickers on the product and never perform any operation contradicting the instructions given.
3. In order to achieve maximum performance and smooth operation of the product it is crucial to perform the startup and first operation procedures exactly as described in this manual.
4. In cases where formal commissioning procedure is required it should be done by an authorized A.R.I. technician prior to the first operation of the product.

Maintenance

Before any maintenance or non-regular operation please read the following:

1. Servicing the product should be done only by qualified technicians for this type of work.
2. Make sure that you know the exact type of the system's fluid. Act accordingly and comply with all the relevant standards and regulations set for handling this type of fluid.
3. Before disconnecting the product from the system and before releasing the residual pressure do **NOT**:
 - loosen or unscrew the product bolts;
 - remove any protection cover;
 - open any service port.
4. Before any maintenance or non-regular operation shut off the Isolation valve and release the residual pressure:
 - A. For air valves with pressure release outlet, slowly open the pressure release plug or the ball valve and make sure that all pressure is released. Please note that some air release valves, especially the waste water models, may contain significant volume of compressed gas with accumulated energy!
 - B. For air valves without a pressure release outlet, slowly unscrew the flange bolts until all the pressure is released from the valve.
5. Make sure the air valve is empty of all liquid prior to commencing maintenance.
6. Remove the product from the line only after ensuring that internal pressure has been released.
7. Place warning signs around the work area as required by the local standards and procedures.
8. Inspect the product's safety stickers and replace any damaged or faded sticker.
9. Manual cleaning of the product and/or its components using high water pressure or steam should be performed in accordance with its specific cleaning instructions, the local standards and regulations and without endangering the operator or the vicinity
10. Manual cleaning of product and/or its components using acid or other chemical agents should be performed in accordance with the specific cleaning instructions, the relevant safety instructions for using that chemical as given by its supplier, the local standards and regulations and without endangering the operator or his vicinity.
11. For products used in potable water systems if it is required to disinfect the product, do so according to the local water authority standards and regulations before putting the product into service.

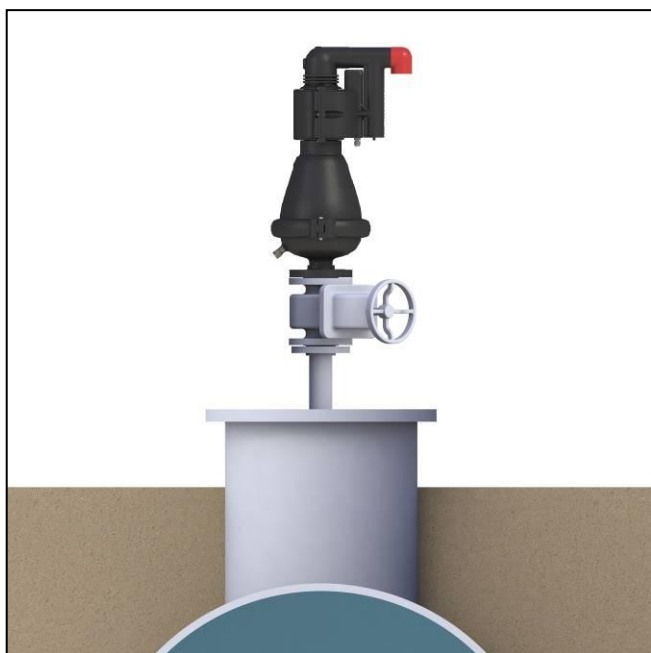
Before returning to regular operation

1. Re-assemble any protection covers or protection mechanisms removed during service or maintenance operations.
2. Make sure that all the tools, ladders, lifting devices, etc. used during the maintenance procedures are taken away from the product area and stored.
3. Remove grease and fat material residues in order to avoid slipping.
4. In order to return the product to regular operation, follow the First Start-up Operation instructions as detailed in your user manual.

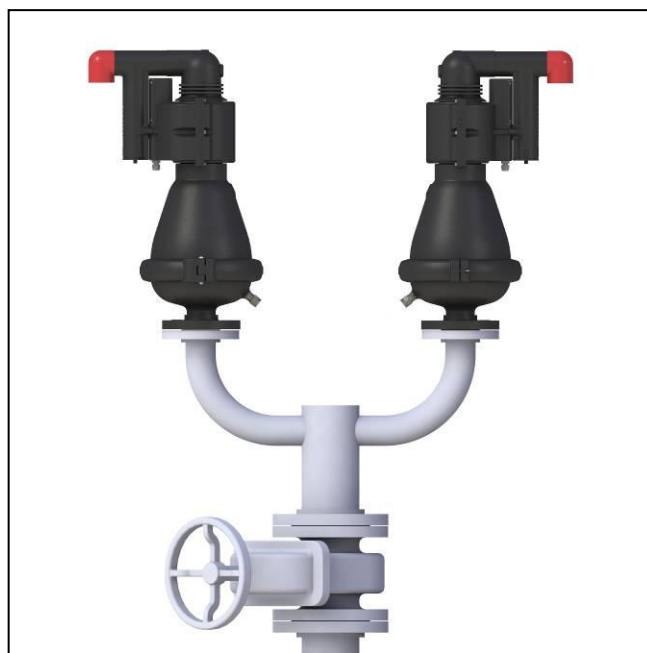
2. INSTALLATION

Important: Before performing any work on the air valve make sure that all workers on site are familiar with the safety instructions and the relevant local and general safety instructions and work regulations.

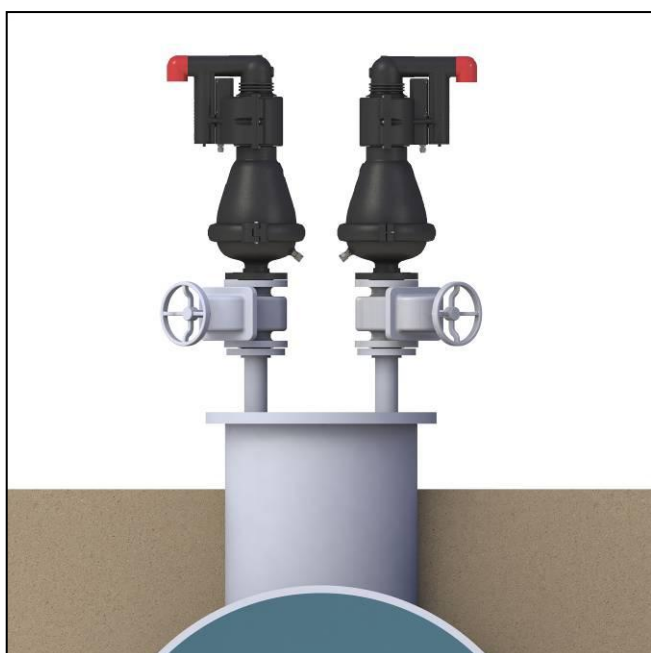
2.1. Installation Recommendations



Single Air Valve on an Isolating Valve at 45° to Air Valve outlet



Two Air Valves on a shared Isolating Valve. Air Valves outlets face outward and the Isolating Valve at 45° to Air Valve outlets



Two Air Valves on an Air Trap with separate Isolating Valves. Air Valve outlets face outward and the Isolating Valves at 45° to Air Valve outlets



Underground Installations

- Underground installations require a venting pipe from the manhole
- Use an angular installation to bypass an obstacle directly above the pipeline.

2.2. Conventions and Measurements

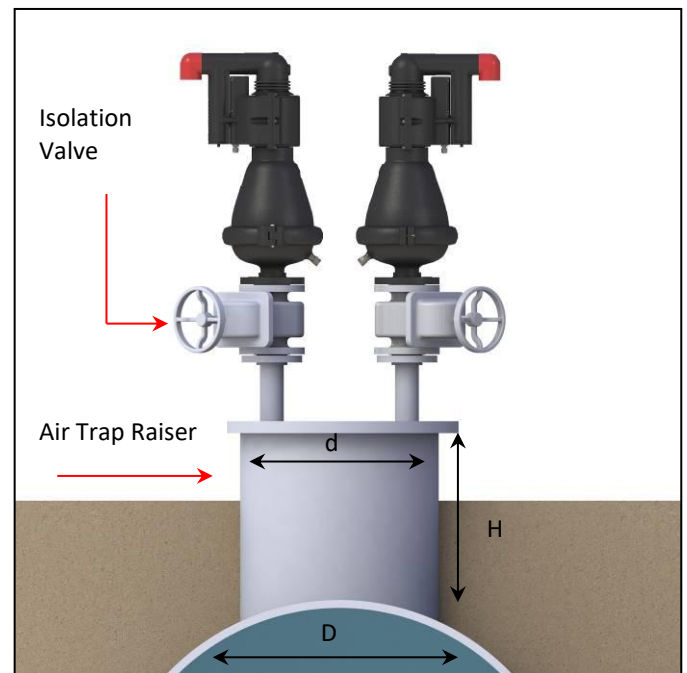
This paragraph presents and explains the terms and measurements used for the Installation process.

D = Diameter of pipeline

d = diameter of riser

H = Height of riser on the pipeline
(Measured from crown of pipeline)

- For pipelines up to 12" (300mm) in diameter (D), the Air Trap diameter (d) should be the same as the pipeline diameter.
- For larger pipelines of up to 60" (1500mm) in diameter (D), the Air trap diameter (d) should be 60% of the pipeline diameter.
- For larger than 60" (1500mm) pipelines (D), the Air trap diameter (d) should be 35% of the pipeline diameter.
- The Air trap length (H) should allow easy access to the air valve from below and should be at least 6" (150mm).



2.3. Installation Instructions

1. Flush the system before installing the air valve to avoid any debris or sharp objects getting into the air valve.
2. Carefully remove the air valve from the shipping package. Unload all air valves carefully to a sturdy level surface taking care not to drop them.
3. Air valves fitted with hoist rings should only be lifted and conveyed using these hoist rings.
4. Install an isolating valve below the air valve, connected by a Riser to the crown of the pipe.
5. Mount the air valve carefully on the rubber gaskets of the isolating valve.
6. Place washers on each of the bolts & nuts that connect the air valve flange to the isolating valve flange.
7. Tighten all the bolts and nuts using the crossover method.
 - a. The closure tightness of the bolts and nuts shall be according to the standard torque for their specific size.
 - b. Use ring wrench keys for the closing and opening of all bolts of the air valve (including the flange bolts).

3. INITIALIZING THE ARISENSE SYSTEM

Once the air valve is physically installed, the ARISENSE system should be prepared for operation, please follow the following steps:

Please note: In cramped installation spaces you may disconnect the Leak Detector Case from the air valve before physically installing the valve on the pipeline.

Important: Before performing any work on the air valve, make sure that all workers on site are familiar with the safety instructions as appear in chapter 1 of this document and with all the relevant local and general safety instructions, standards and work regulations.

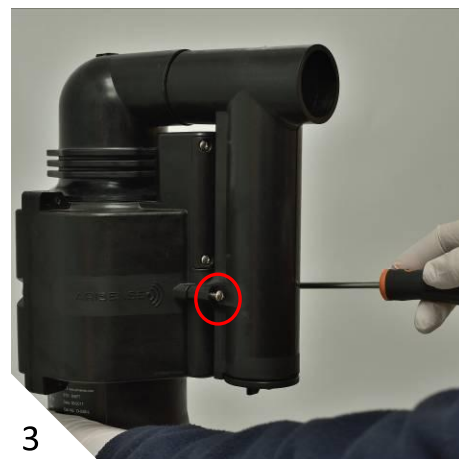
3.1. Required tools and materials:

- Flat tip screwdriver
- Phillips head screwdriver
- 8mm combination spanner
- 6 mm Allen key
- Plastic head hammer
- Small bowl with kitchen type liquid soap



3.2. Open the battery compartment

Using the Phillips screwdriver, unscrew [1], [2], [3] and remove [4] the two bolts connecting the ARISENSE black Air Release Outlet.



Using the Flat screwdriver [1], remove the ARISENSE black Air Release Outlet [2], [3].



Using a screwdriver unscrew the four bolts of the battery compartment cover [2] and remove the cover [3].



3.3. Insert the SIM card

Insert the SIM card to its designated socket at the lower part of the battery compartment [4] & [5].



Remark: if the battery connector is already connected, reassemble the compartment cover and the red outlet elbow.

3.4. Connect the battery

Connect the battery's orange female connector [6] to the ARISENSE white male connector [7].



Reassemble the battery compartment cover [8] and the red outlet elbow.

The ARISENSE is initialized and ready to be configured and connected to the communication network.

4. INITIAL STARTUP OF THE ARISENSE SYSTEM

Once the air valve is physically installed and the ARISENSE system is initialized, it should be connected to the communication network. This process is done via a special Bluetooth (BT) Smartphone Applications named ARISENSE.

4.1 The Bluetooth (BT) application:

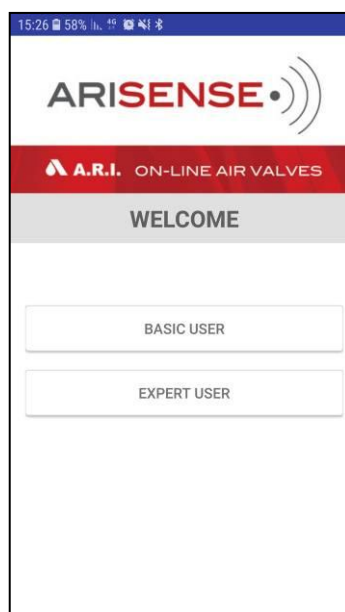
- Download and install the BT ARISENSE application by scanning this QR code with your Smartphone:
- Download the Application file, install it on your Smartphone and make sure that the application has all the required permissions.
- Make sure that the Bluetooth communication of your Smartphone is switched on.
- Launch the app on your mobile device by clicking the ARISENSE icon.



Picture 1 - ARISENSE icon

1. Connecting the ARISENSE Application to the Air Valve:

- The Welcome screen appears



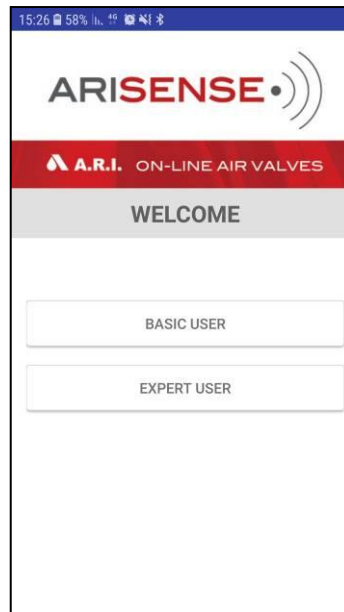
Picture 2 – Welcome screen

General Note: At any stage of the application operation, you can return to the main screen by clicking on the ARISENSE icon at the top of the screen.

2. Connecting and using the ARISENSE Bluetooth (BT) communication:

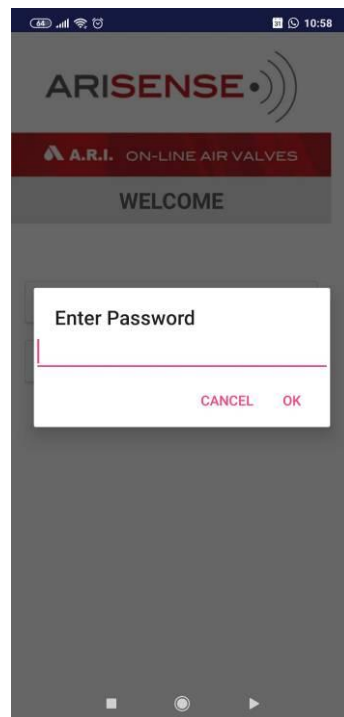
- User Selection - On the Welcome Screen, choose between 2 versions of the app: Basic and EXPERT. The following description is for a BASIC USER type.

I. Basic User



Picture 3 - User Type Selection Screen

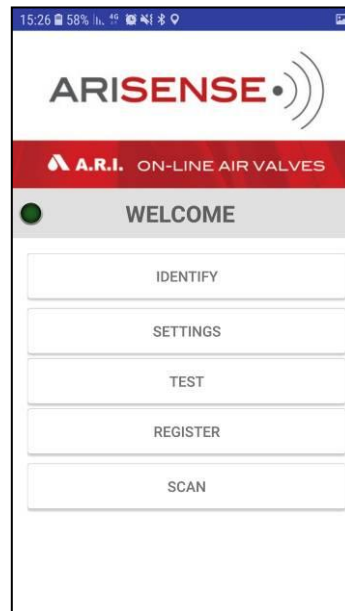
- Setting Password - Once the User Type is selected, the set password screen appears. Set your password; it should contain four characters: Letters, Numbers or a Mixture of letters and numbers.



Picture 4 – Set Password Screen

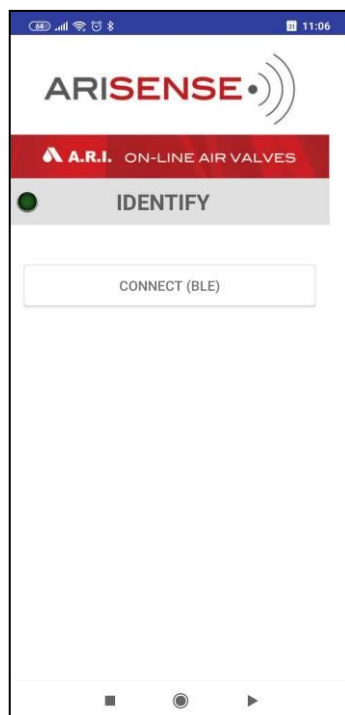
Very Important:

- Once the password is set, it will be required at every entry to the application.
 - Once set, the password cannot be changed again!
- On the main screen, select the first button (IDENTIFY).



Picture 5 - Main Screen (Basic User)

- Select the CONNECT button - 'CONNECT (BLUE)'.



Picture 6 - Connection screen

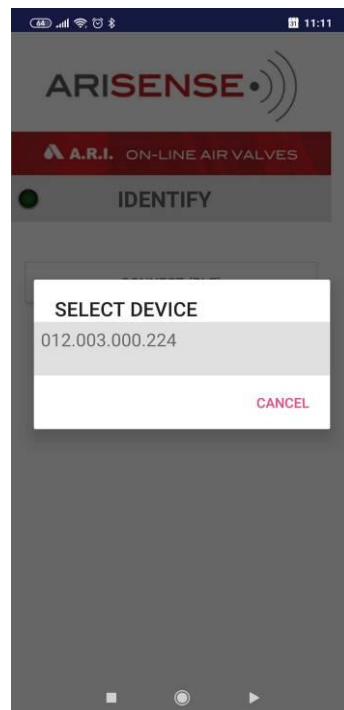
- Once the CONNECT button is pressed, move a magnet near the valve at the designated location at the bottom of the unit.



Picture 7 - Magnet designated location

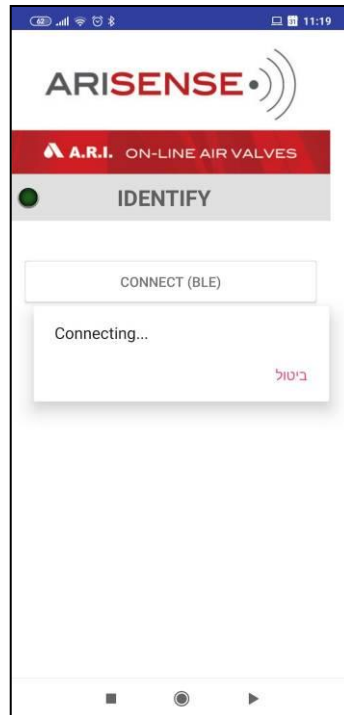
Note: The Air Valve model is for illustration only

- Wait until a confirmation message is received on the screen. The message will list the ID number of the unit you are connecting to. Select the Identified unit.



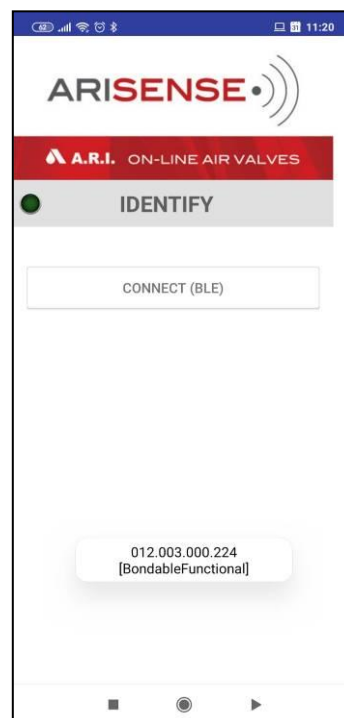
Picture 8 – Identified Unit Screen

- A Connecting message appears on screen:



Picture 9 – “Connecting” message

- Wait until the ID number of the unit you are connecting to appear on screen and the Green LED on the upper left side of the screen is turned on. Your Smartphone application is connected now to the ARISENSE air valve.

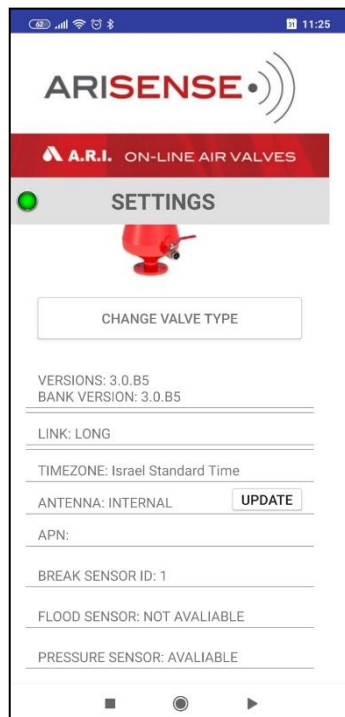


Picture 10 – Connected Screen

- Return to the Home screen.

II. Unit Information – SETTINGS Screen of the ARISENSE Bluetooth application (BT)

- Clicking 'SETTINGS' will take you to a screen where information about the unit is displayed, such as: valve type, software versions, regional clock, etc. You can change the valve type by clicking on the image and selecting from the list of images that open.

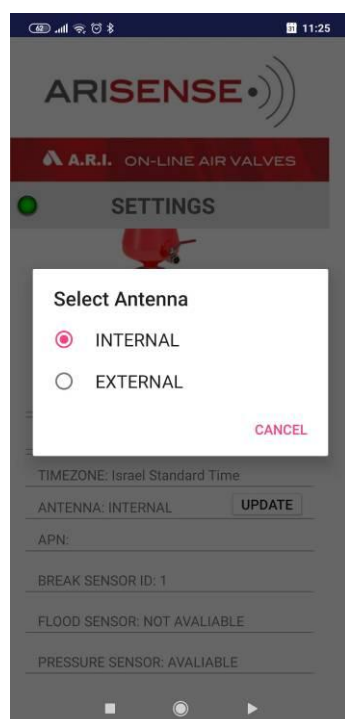


Picture 11 - Unit Settings screen

Note: The Air Valve picture is for illustration only

III. Setting the Antenna Type

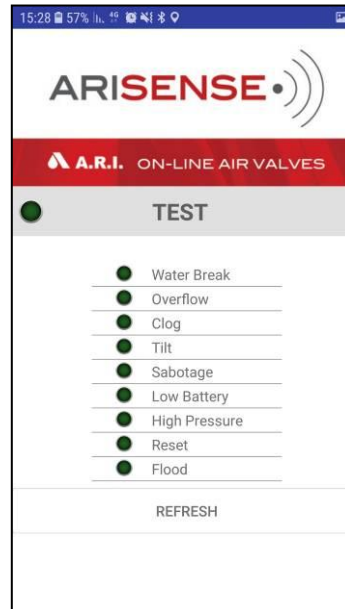
- Click on the UPDATE button next to the Antenna Type entry of the SETTING screen and select the type of Antenna connected to your ARISENSE unit.



Picture 12 – Select Antenna Type

IV. The Sensor Test Status – TEST

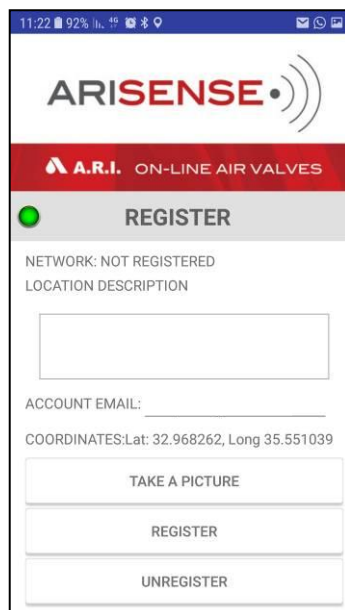
- To check the unit sensors status, click on 'TEST'. On the screen that opens you can see the status of all the unit sensors by a LED display. (Green = okay, no alert. Red = Alert activated. Shut-off = communication with the unit is disconnected and needs to be reconnected).



Picture 13 - Sensor Status Screen

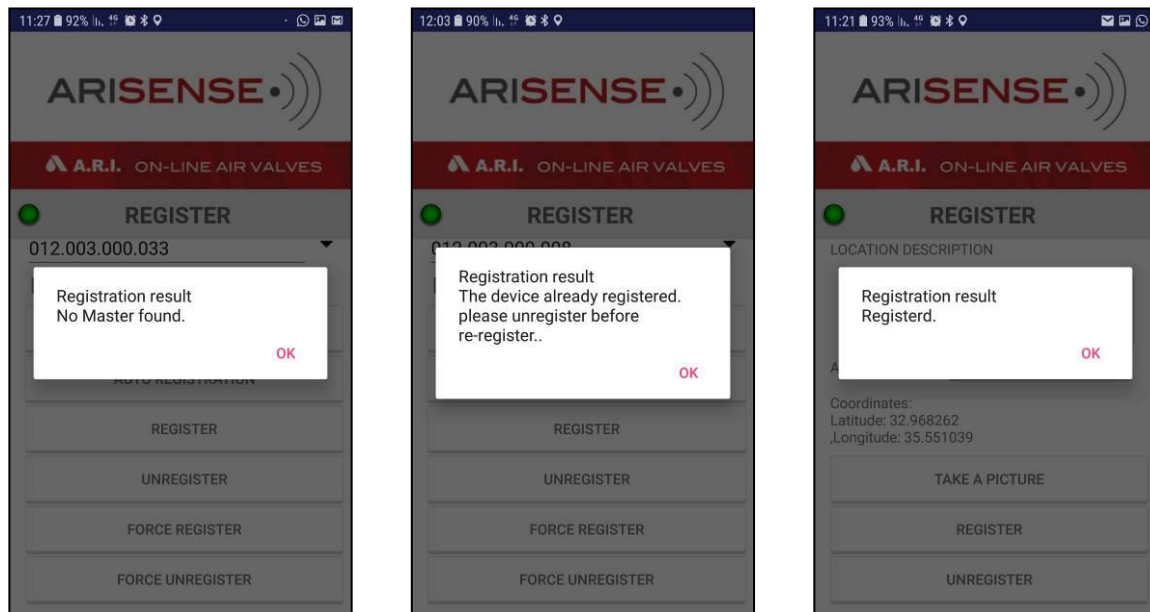
V. Unit Registration – REGISTER

- To register the unit, click 'REGISTER'.



Picture 14 - Registration Screen

- In the 'Location Description' window, enter the installation location description in a few words.
- Make sure that the location coordinates of the installation appear.
- You can take a photo of the installation by clicking 'TAKE A PICTURE'.
- Write down the email address associated with the customer and click on the 'REGISTER' button.
- Once registered, you will be notified on the cell phone screen.
- If the unit is already registered in the system or the registry fails for some other reason, you will be notified.

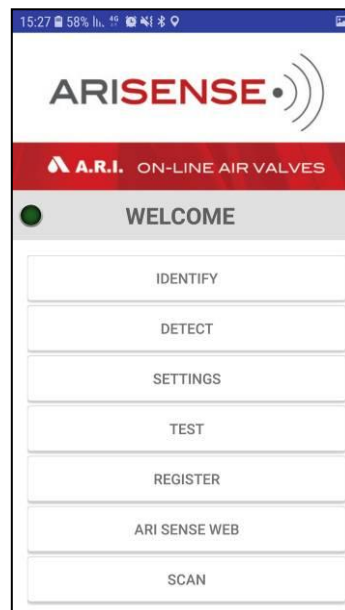


Picture 15 - Possible messages after attempting unit registration

- To remove a single registration, you can click on the 'UNREGISTER' button.

VI. Expert User

In addition to the basic functions available to the basic user, there are several additional actions for use by the advanced user.

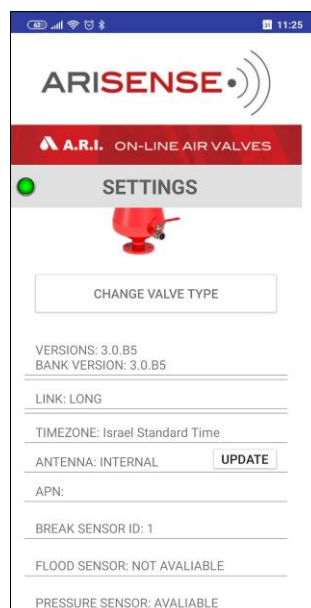


Picture 16 - Main Screen (Advanced User)

- Communication Testing – DETECT
- Clicking 'DETECT' will trigger a communication check.
- A Cellular communication test will be performed.
- At the end of the test, you will receive a notification with the test results.

VII. Expert User - SETTINGS Screen of the ARISENSE Bluetooth application (BT)

- The 'SETTINGS' screen has other options, not available to the basic user, such as: Software Update.



Picture 18 - Setting Screen (Advanced User)

5. OPERATION

When the system is charged and the pipeline begins to fill, the water flowing in the pipeline enters into the combination air valve, raising the air/ vacuum and air release floats to their sealing position.

During filling, air is discharged mainly through the air/ vacuum orifice as well as small amounts of air released through the air release orifice. As the pipeline becomes fully pressurized, the air/ vacuum orifice will seal and entrapped air will then be automatically released only from the air release orifice.

During pipe draining or water column separation, the floats will drop down due to the vacuum created, and air will enter into the pipeline through the air/ vacuum orifice.

6. TROUBLESHOOTING

Symptom	Possible Causes	Remedy
Valve leaking from Clamp area	O-ring is not in place, debris in sealing area, or Clamps are not properly tightened	Open the bolt, separate and remove the two Clamps. Check the placement and integrity of the O-ring. Check for debris, clean and close the Clamps
Valve leaking from the Discharge Outlet	A. Low pressure B. Debris caught in sealing mechanism or Rolling Seal is damaged	A. Requires a minimum pressure of 0.05 bar (0.7 psi) to seal properly B. Perform 5. Periodic Maintenance Including 5.3.2 Integrity Test and Replacing (cleaning) of the Rolling Seal Assembly
Threaded pipe connection is leaking	The nylon thread was compromised in installation	Replace the Base (17) section and O-ring (14) Suggest a double threaded nipple fitting for future use.
Leakage from the Tap	A. Tap not completely closed B. Debris caught inside the Tap	A. Tightly close the Tap B. Fully open, then fully close the Tap

7. REPLACING THE ARISENSE BATTERY

When needed replace the ARISENSE battery with a new battery acquired from Aquestia. Only battery P/N - 0227-GEBTZZQZZ00, purchased from Aquestia, is permitted.

Open the battery compartment as described in section 3.2 of this document.

Disconnect the battery's orange female connector [1] from the ARISENSE white male connector [2] and pull out the used battery [3].



Insert a new battery to the battery compartment; the capacitor should go in first [4]. Make sure that the new battery is seated correctly within its compartment. Reconnect the new battery's orange female connector to the ARISENSE white male connector and then reassemble the compartment's cover and the air valve red elbow outlet as described in section 3.4 of this document.



8. PERIODIC MAINTENANCE

Please note that the periodic maintenance of the air valve is an integral part of the proper pipeline maintenance regime; it should be maintained at least once a year in accordance with the quality and composition of the fluid in the system.

Important: Before performing any work on the air valve make sure that all workers on site are familiar with the safety instructions as appear in Chapter 1 of this document and with all the relevant local and general safety instructions, standards and work regulations.

Please note that maintaining the D-025 ARISENSE product consists of two separated procedures: Maintaining the Air Valve Component and maintaining the ARISENSE component.

8.1. Releasing Pressure

- Shut the isolating valve located on the riser under the air valve
- Open the Ball Valve to release pressure and drain the air valve [1]
- Important: Discard liquid in compliance with local regulations



8.2. Servicing the ARISENSE component

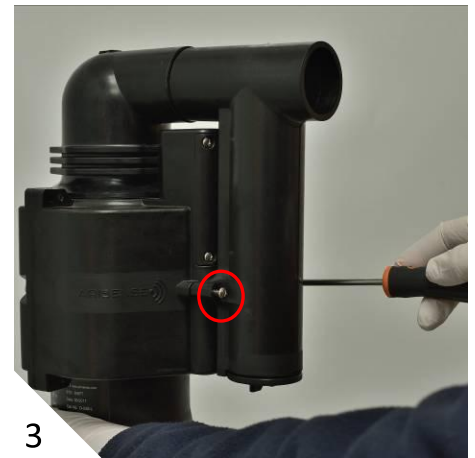
Required tools and materials:

- Flat tip screwdriver
- Phillips head screwdriver
- 8mm combination spanner
- 6 mm Allen key
- Plastic head hammer
- Small bowl with kitchen type liquid soap



8.2.1. Remove the ARISENSE Air Release Outlet Unit

Using the Phillips screwdriver, unscrew [1], [2], [3] and remove [4] the two bolts connecting the ARISENSE black Air Release Outlet.



Using the Flat screwdriver [1], remove the ARISENSE black Air Release Outlet [2], [3].



8.2.2. Removing the Operating Valve Body

Unscrew and remove the Operating Valve Body [1], [2].



8.2.3. Removing the Float

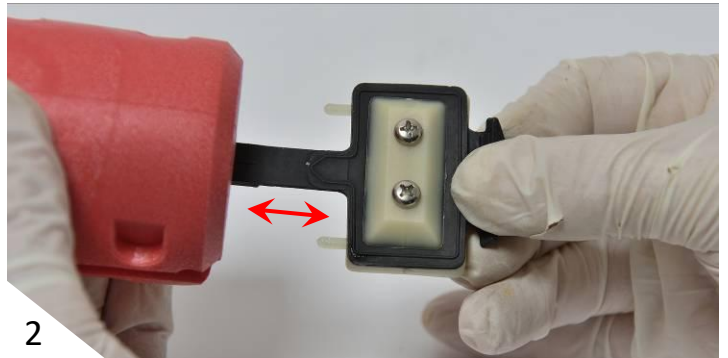
Hold the Operating Valve Body, turn it to the side [1] and remove the Clamping Stem [2] and the Float [3] (together with the Rolling Seal).



8.2.4. Cleaning and inspecting the components

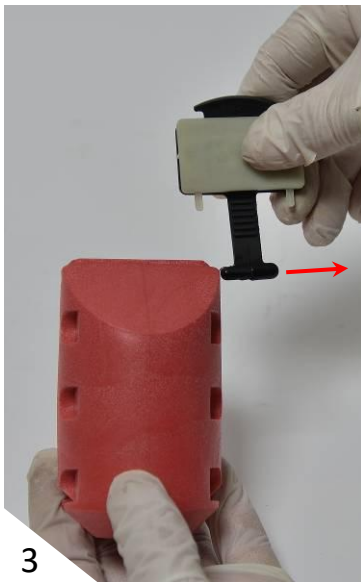
Thoroughly but gently wash and clean all the components under clean running water. Pay attention to the sealing area inside the Body.

Visually check the condition of the Rolling Seal [1] & [2]. If any cracks or tears are found remove it from the Float and replace it.



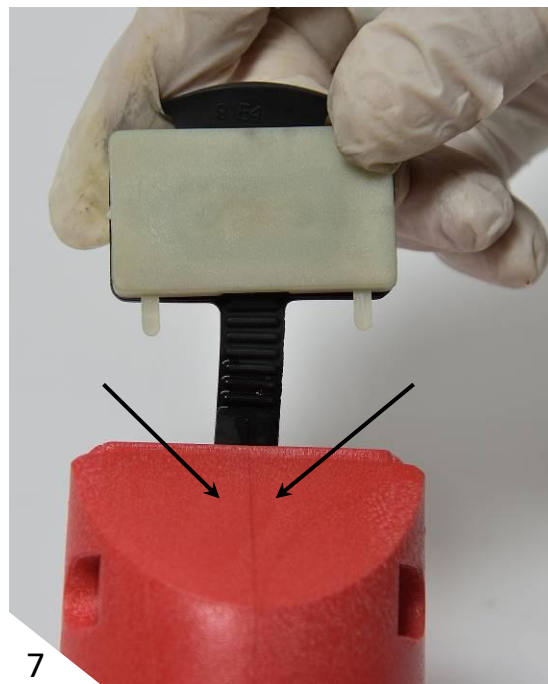
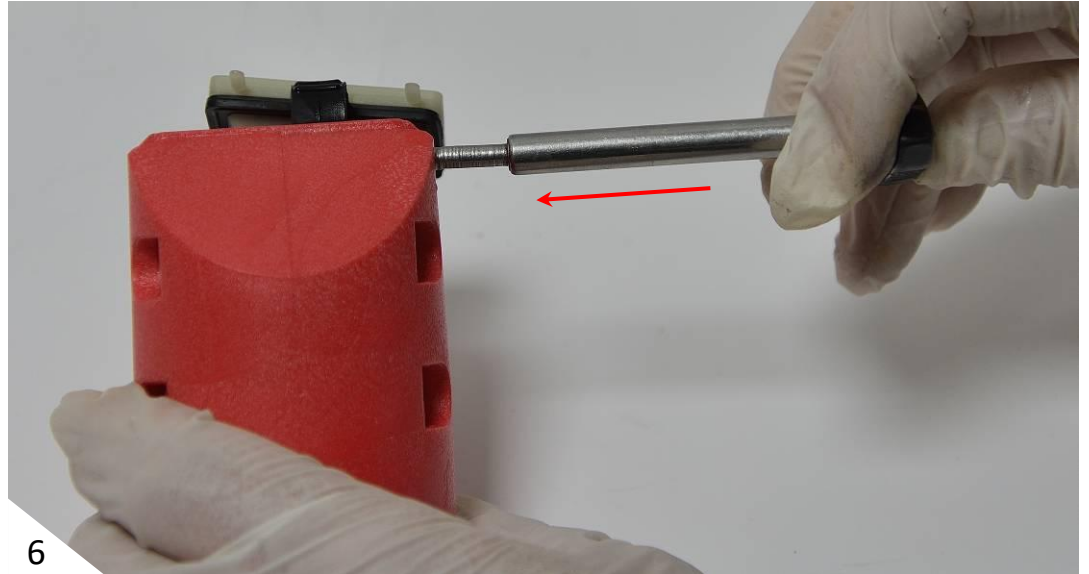
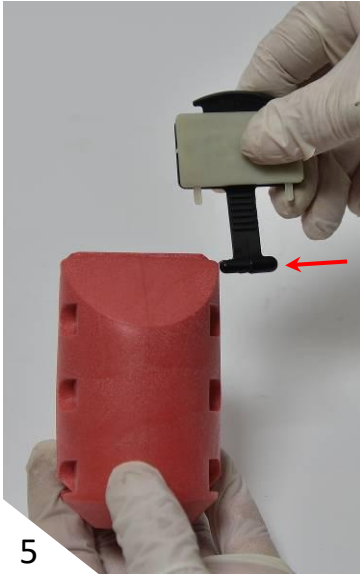
If replacement is necessary, slide out and remove the Rolling Seal Assembly [3]

Take a new Rolling Seal Assembly and dip the tail end into the liquid soap solution [4]



Pay attention to the correct position and direction and insert the tail end of the Rolling Seal Assembly into the groove on the Float [5].

Gently pull the Rolling Seal Assembly until it is partially inserted into the Float groove. Use the 4.5mm Roll Pin Punch to push the Rolling Seal Assembly to the middle of the Float [6] and align the middle of the Rolling Seal Assembly tail with the midline of the Float [7].

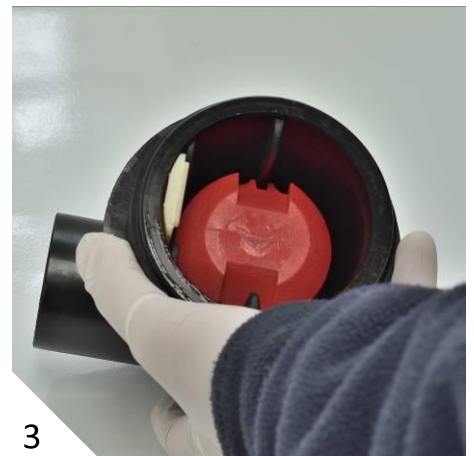


8.2.5. Reassembling the Operating Valve

Reassemble the Operating Valve by inserting the loose end of the Rolling Seal into its designated groove in the Body, make sure that the insertion direction and the end of the seal are as depicted on pictures [1] and [2].



Insert the Float halfway into the Body [1], insert the Clamping Stem into the Rolling Seal groove of the Body; make sure that it is inserted in the direction depicted on picture [2]. Push the Float and the Clamping Stem together downwards into the Body until they are locked [3].



8.2.6. Cleaning the ARISENSE black Air Release Outlet

Remove the lower plug of the ARISENSE black air release outlet [1] and [2] then thoroughly but gently wash and clean the components under clean running water.



8.2.7. Reassembling the ARISENSE Unit

Reassemble the ARISENSE Unit in reverse order of paragraphs 8.2.7, 8.2.6, 8.2.5, 8.2.4, 8.2.3, 8.2.2 and 8.2.1.

8.3. Servicing the D-025 Air Valve

Required tools and materials:

- Flat tip screwdriver
- Phillips head screwdriver
- 8mm combination spanner
- 6 mm Allen key
- Plastic head hammer
- Small bowl with kitchen type liquid soap



8.3.1. Removing the clamp

Insert the Allen screwdriver into the Allen screw head and turn counterclockwise to open [1].

Remove Screw and Nut [2] and repeat the procedure for the other side of the clamp.

Pull out to remove Clamps from both sides of the valve body [3].



8.3.2. Separating the body

Pull the body unit sideways to separate it from the Base [1], place the entire assembly on a clean, flat surface [2].



8.3.3. Cleaning

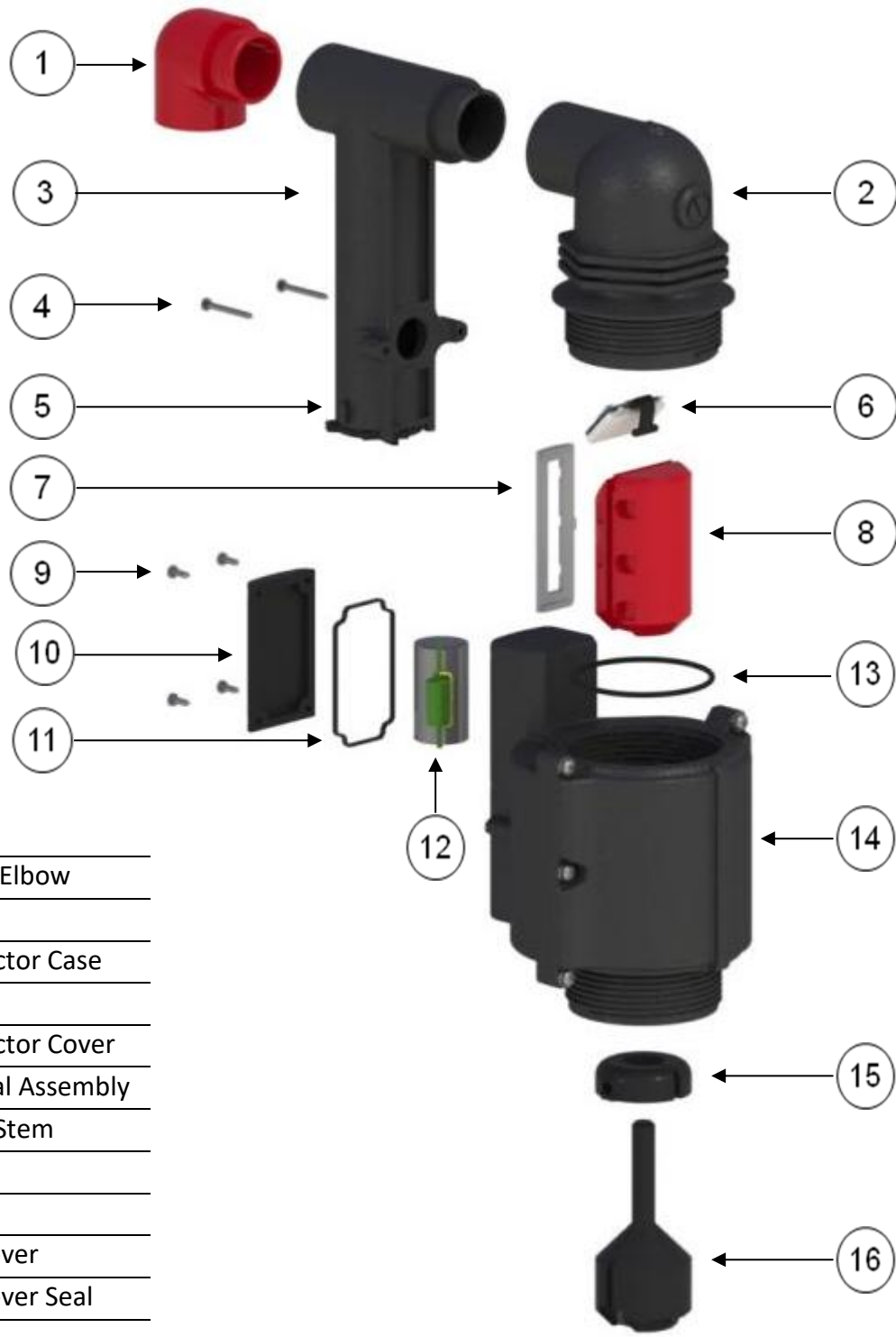
Thoroughly wash and clean the inside of the Air Valve Body, the Float [1] and the Base [2] under clean running water to remove all grime.



8.3.4. Reassembling the Air Valve

Reassemble the Air Valve in reverse order of paragraphs 9.3.2 and 9.3.1.

9. ASSEMBLY BOM TABLE AND DRAWING



1	Discharge Elbow
2	Body
3	Leak Detector Case
4	Screws
5	Leak Detector Cover
6	Rolling Seal Assembly
7	Clamping Stem
8	Float
9	Screws
10	Battery Cover
11	Battery Cover Seal
12	Battery
13	O-Ring
14	Electronics Case
15	Ring Float
16	Ring Float Connector

1	O-Ring
2	Body
3	Domed Nut
4	Stopper
5	Spring
6	Float + Stem + Washer
7	O-Ring
8	Clamp Assembly
9	Base
10	Tap
11	Flange



10. ANNEX A. EXTERNAL ANTENNA INSTALLATION PROCEDURE

The following is a general description of the ARISENSE External Antenna installation procedure.

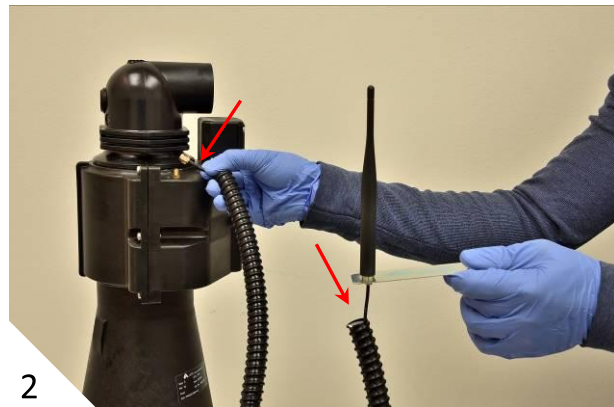
Please note:

- The actual installation process depends on the specific layout of the installation site and on the operation conditions.
- The antenna installation should be done after completing the Air Valve installation on the pipeline.
- The external antenna installation procedure shown in the following pictures is valid for all ARISENSE Air Valves models.

10.1 Measure the required length of the corrugated conduit tube, from the air valve's antenna connector to the installation point of the antenna on the manhole wall [1]. Cut the tube length accordingly.



10.2 Insert the antenna cable through the conduit tube [1], [2].



10.3 Insert 10-20cm of Heat Shrink Coupler Sleeve over the corrugated conduit tube at the air valve side [1], [2].



- 10.4 Connect the antenna's cable to the air valve's connector; fasten the thread with hand power only [1].



- 10.5 Attach the conduit tube to the air valve's body, heat and shrink the coupler sleeve with a heat gun [1], [2], [3].



- 10.6 Seal the connection of the conduit tube to the air valve's body with silicon [1].



- 10.7 Once the valve's side of the connection is secured insert the SIM card and the battery to the ARISENSE unit and connect the Leak Detector Case and the Discharge Elbow [1]; for specific instructions please refer to the ARISENSE installation IOM.



- 10.8 Seal the connection of the conduit tube to the antenna bracket with silicon [1].



- 10.9 Drill Holes in the manhole's wall according to the installation blueprint and connect the antenna bracket with suitable stainless-steel bolts to the manhole wall under the manhole cover [1].



10.10 Important notes:

- a. If the antenna cable is too long, do not cut it; roll and secure it with suitable brackets to the manhole wall.
- b. If possible, install the antenna outside of the manhole, in such case make sure that the antenna is installed in a safe and protected place.

**10.11 Configure the cellular application of the ARISENSE for external antenna usage and check communication.**

11. ANNEX B. ADDING A NON-SLAM (NS) DEVICE TO AN ARISENSE AIR VALVE

The following is a general description of the procedure of adding a NS device to an ARISENSE air valve.

Please notes:

- Important: Before performing any work on the air valve make sure that all workers on site are familiar with the safety instructions and the relevant local and general safety instructions and work regulations.
- Releasing the Pressure - Shut the isolating valve located on the riser under the air valve and release the pressure as described in the maintenance chapter of this document. Discard the liquid in compliance with the relevant local regulations.

11.1 Requirements:

- NS kit – There are two types of NS kits; a kit with a Red Discharge Elbow [1], and a kit with a Camlock connector [2].
- A Phillips head screwdriver [3].

Please note: the installation procedure described in this annex shows pictures of the Red Discharge Elbow, however the procedure is the same as for the Camlock connector kit.

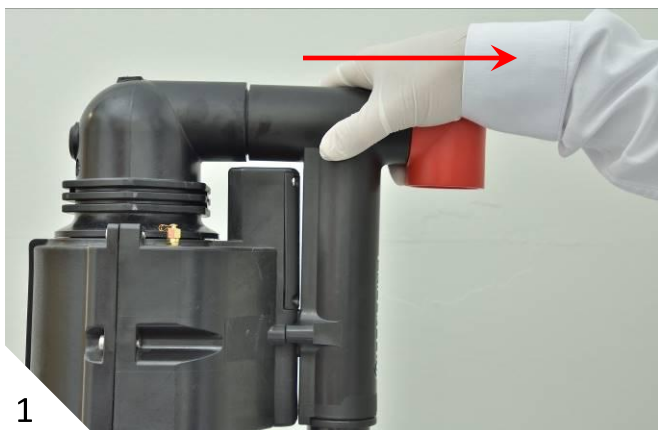


11.2 Removing the Leak Detector Case:

Using a Phillips head screwdriver unscrew and remove the two bolts [1] connecting the Leak Detector case to the ARISENSE Electronics Case [2], [3].



Pull out [1] and remove the Leak Detector Case [2].



11.3 Removing the upper air valve assembly:

Unscrew [1] and remove [2] the upper air valve assembly:



11.4 Installing the upper air valve assembly of the NS kit:

Screw the kit's upper air valve assembly into the ARISENSE Electronics case [1], [2], and align it with the Electronics Case as depicted in pictures [3] and [4].

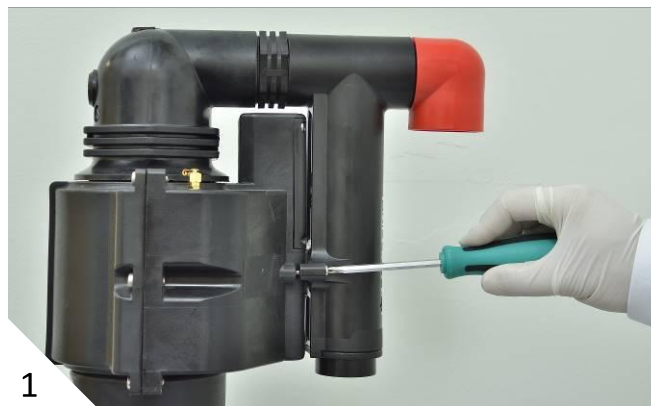


11.5 Installing the Leak Detector Case of the NS kit:

Push the kit's Leak Detector Case into the ARISENSE Electronics Case [1] and [2].



Using a Phillips head screwdriver re-screw, the two bolts connecting the Leak Detector case to the ARISENSE Electronics Case [1].



11.6 Restart the Air Valve operation as described in the installation chapters of this document