Installation & Operation Manual

1”/1.5” Maverick Filter

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Amiad Water Systems Ltd. D.N. Galil Elyon 1, 1233500, Israel Tel: 972 4 690 9500 | Fax: 972 4 814 1159

Email: info@amiad.com

Introduction

Amiad Maverick is a compact automatic water filter, with self-cleaning mechanism, for sustainable landscape systems. The Maverick filter is controlled by an integrated ADI-M electronic controller interfaced with Amiad ADI-BLE application for easy operation and monitoring.

Safety Instructions

Applicable local or national safety regulations and rules for the prevention of accidents, must be applied in all work procedures in addition to the following instructions.

General:

- Amiad Water Systems Ltd. ("Amiad") filtration products operate as components in a larger system. It is essential for the system designers, installers, and operators to comply with all the relevant safety standards and regulations, including the use and wear of appropriate safety equipment.
- Prior to installation, operation, maintenance, or any other type of action carried out on the filter, carefully read the safety, installation, operation and warranty instructions.
- During installation, operation, commissioning, or maintenance of the filter, all conventional safety instructions should be observed to avoid danger to any person, including the workers performing the said activity, or to property in the vicinity.
- No change or modification to the equipment is permitted without advanced written notification given by the manufacturer or by its representative(s) on the manufacturer's behalf.
- Always observe standard safety instructions and good engineering practices whilst working in the filter's vicinity.
- Use the filter only for its intended purpose as designed by Amiad Water Systems. Any misuse of the filter may lead to damage and may affect your warranty coverage. Consult with Amiad Water Systems prior to any non-regular use of this equipment.
- Observe the safety stickers on the filter and do not perform any operation other than those given in this manual.

Installation

- Install the filter according to the detailed Installation Instructions provided with the filter by the manufacturer, and according to the description given in this manual.
- Make sure to leave enough clearance to enable easy access for future treatments and safe maintenance operations.
- The user should arrange suitable lighting at the area of the filter to enable good visibility and safe maintenance.
- Check and re-tighten all bolts during commissioning and after the first week of operation.
- Use only appropriate standard tools and equipment operated by qualified operators when installing, operating and maintaining the filter.
- Ensure walking areas around the installation are slip resistant when wet.

Shipping and Transporting

- Shipping and transporting the filter must be done in a safe and stable manner and in accordance with the relevant standards and regulations, using the manufacturer designed package.

Hydraulics

- We recommend installing manual isolation valves before the inlet port, and after the outlet port.
- Use the filter's built-in pressure release / drainage valve to enable release of residual pressure prior to any maintenance procedures.
- Do not exceed the maximum working pressure indicated on the filter's specifications table.
- When necessary, a pressure reduction valve should be installed upstream of the filter's inlet port.
- Please note that the maximum working pressure indicated in the filter's specifications table includes the pressure caused by fluid hammer and pressure surge effects.
- Prior to installing the filter, thoroughly flush the main line at the connection point to remove large objects that may damage the filter's internal mechanism.
- In cases where the water system is higher than the filter, it is recommended to install a non-return valve in the filter's downstream.
- In cases where the water system is lower than the filter, it is recommended to install a pressure sustaining valve in the filter's downstream.

Mechanical

- Use only appropriate standard tools when working on the filter.
- Always open and close valves slowly and gradually.
- Remove grease and oily material residues to avoid slipping.
- Before disconnecting the filter from the water supply and before releasing the filter's residual pressure DO NOT:
  - Loosen or unscrew bolts.
  - Remove any protective covers.
  - Open any service port.
- Wear a safety helmet, goggles, gloves, and any other personal safety equipment required by local standards and regulations.
- Manual cleaning of filter element using high water pressure or steam should be performed in accordance with the cleaning system instructions, the local standards, and regulations.
- Manual cleaning of filter element using acid or other chemical agents should be performed in accordance with the relevant material safety instructions, the local standards, and regulations.

Civil Engineering

- Ensure that any civil engineering work at the installation site such as construction, lifting, welding, etc., is performed by qualified workers / technicians / contractors and in accordance with relevant local standards.

Maintenance

Please note: the filter enters a flushing mode automatically, without warning.

- Servicing the filter should be performed according to manufacturer's instructions.
- Pause or shut off the flushing controller.
- Isolate the filter from the water system by closing the inlet and outlet isolation valves.
- Release pressure and empty the filter, by pressing the Pressure Release Valve.
- Place warning signs around the work area as required by the local standards and procedures.

Before Returning to Regular Operation

- Re-assemble any protection covers or protection mechanisms removed during service operations.
- Make sure that all the tools, ladders, lifting devices, etc. used during the maintenance procedures are taken away from the filter area and stored.
- To return the filter to regular operation, follow the initial operation instructions chapter as detailed in this user manual.

Unpacking

Inside the Maverick carton box:

1. Maverick Filter
2. 1" adaptor x 2
3. 1.5" adaptor x 2
4. Long command tube

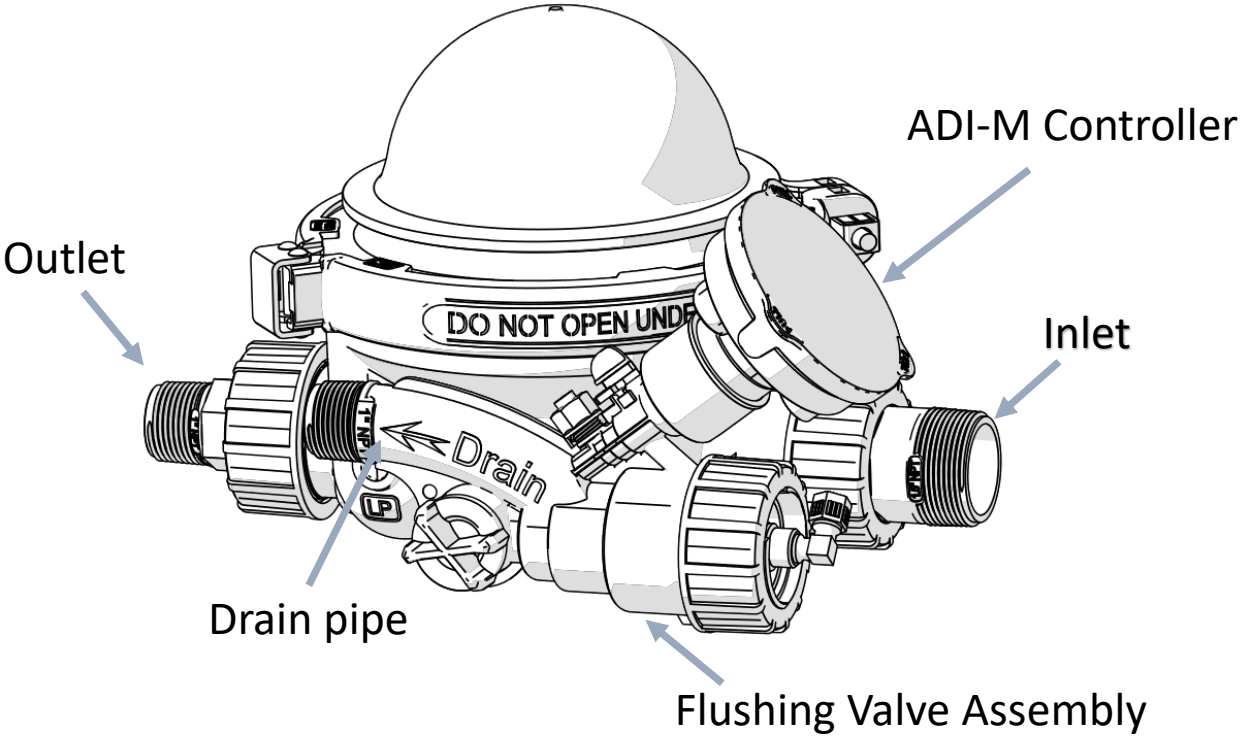
Required tools for maintenance

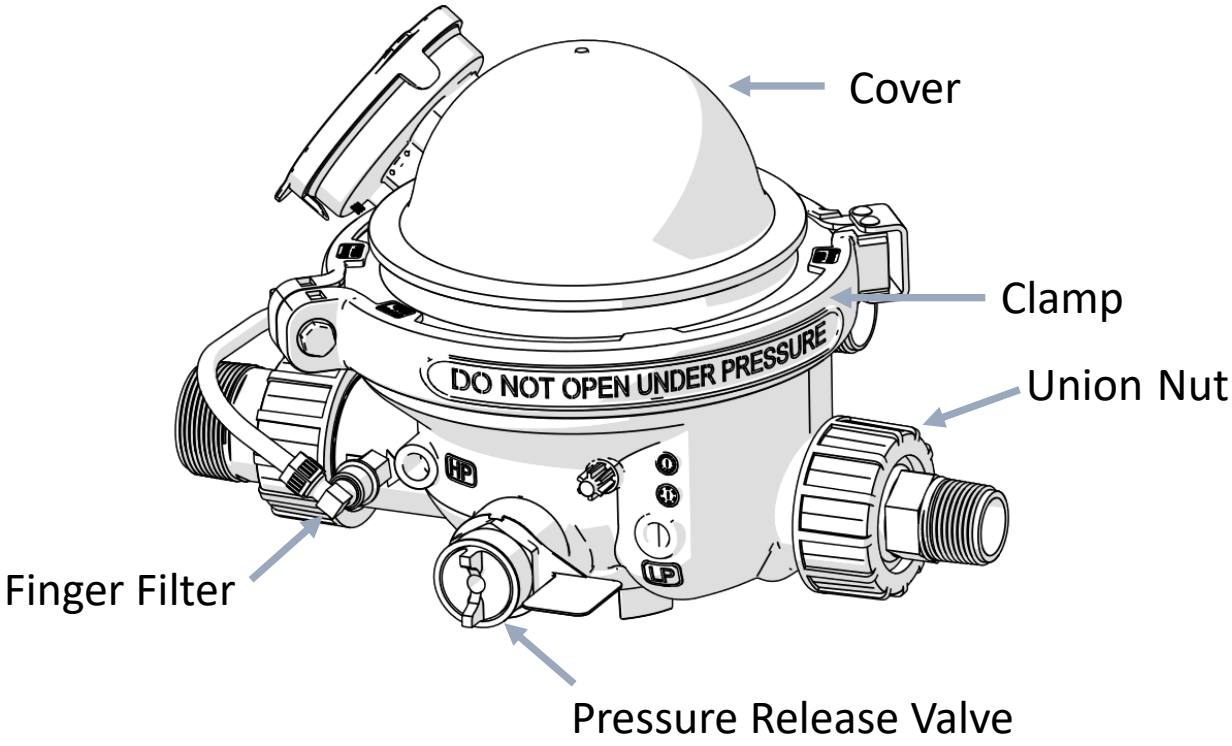
Use only appropriate standard tools and equipment operated by qualified operators when installing, operating and maintaining the filter.

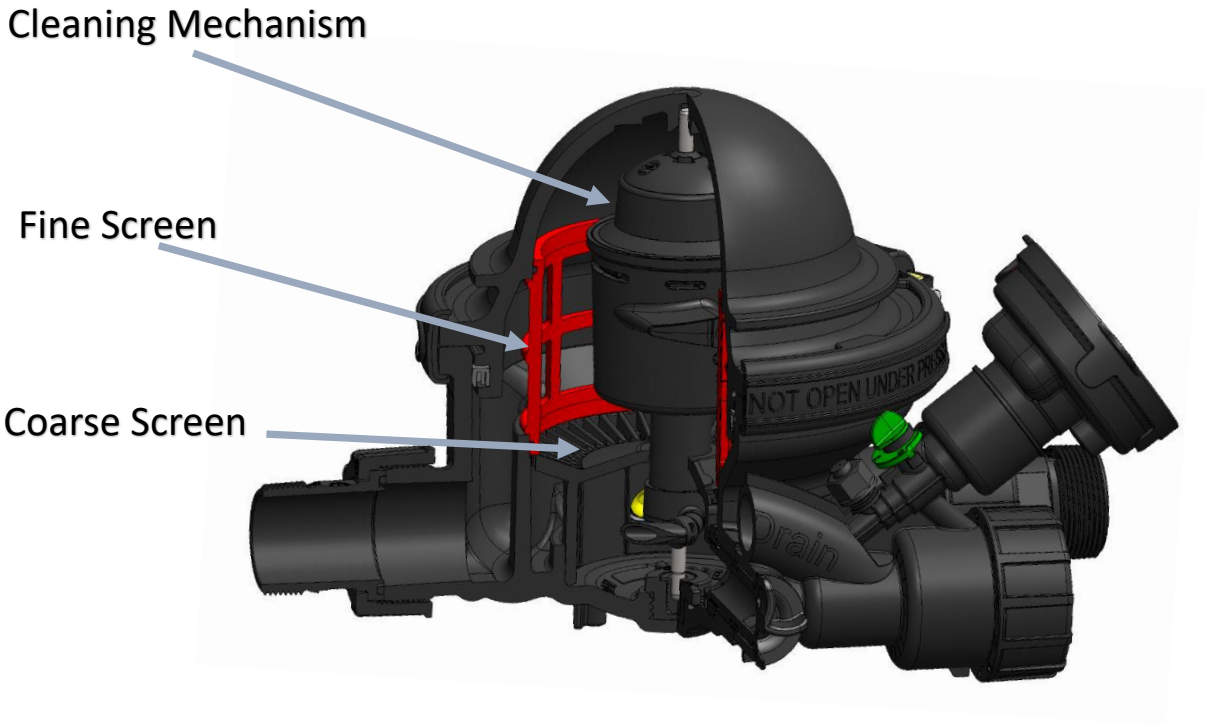
- 13mm or ½” open wrench/socket - used to open/close the Maverick clamp.
- 17mm socket + 9/16" open wrench - used to open/close the finger filter.

All other connection ports (inlet, outlet, drain) and filter parts should be tightened by **hand force only,** no tools needed.

Product Overview & Main Components






Cleaning Mechanism
Fine Screen
Coarse Screen
NOT OPEN UNDER PRES
Drain

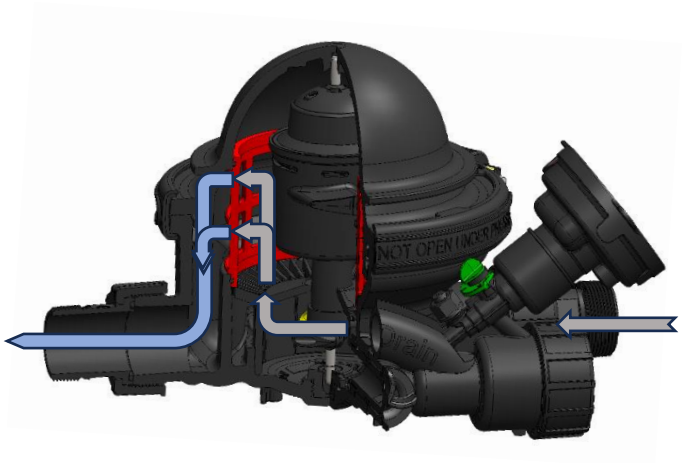
Filter operation

Filtration process:

Feed water enters from the filter's inlet, passes through the coarse screen from outside in, and through the fine screen from inside out. Filtered water flows through the filter outlet.

The coarse screen is designed to protect the cleaning mechanism from large particles.

The suspended solids accumulate on the inner screen surface and filtered water flows into the customer's system.



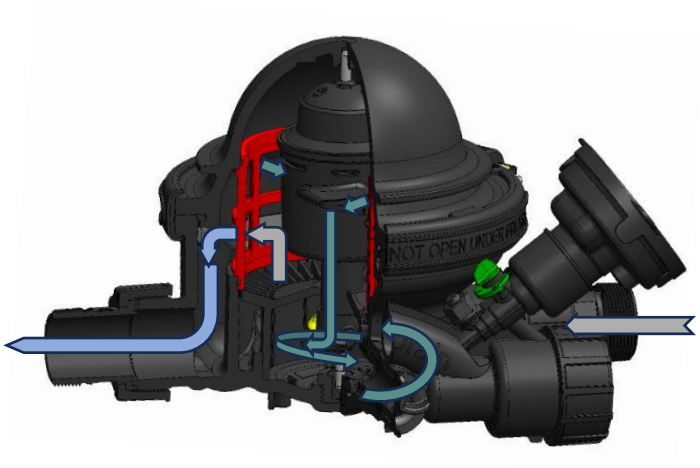
Upstream Water

Downstream Water

Flushing process:

When the flushing cycle initiates, the flush valve opens for the duration of the cleaning cycle, creating a high-velocity suction force at the scanner's nozzles. This force cleans the accumulated particles from the inner screen's surface.

A turbine rotates the scanner and provides a spiral-like movement, cleaning all the inner surface of the screen. During the flushing procedure, the filter continues to supply filtered water.



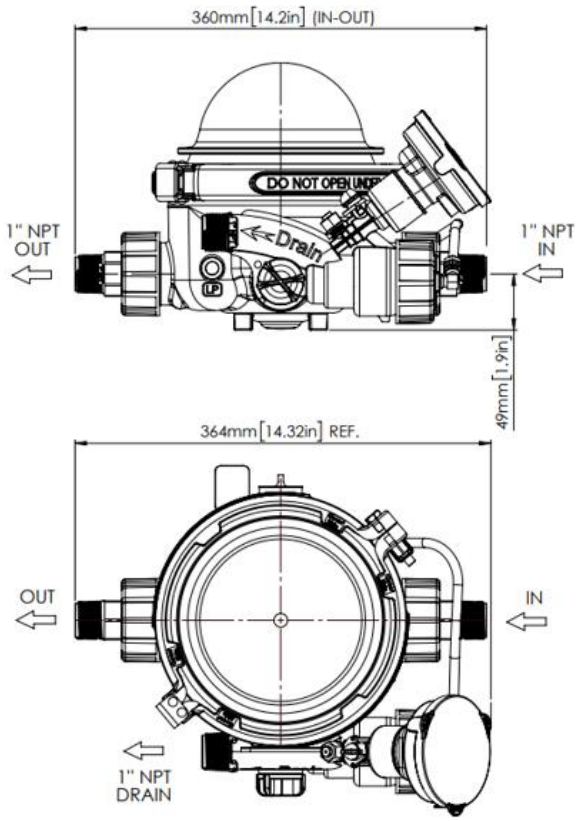
Upstream Water

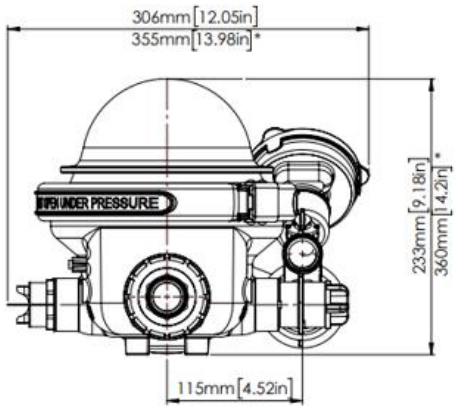
Downstream Water

Backwash Water

Dimensional Drawing

Please note: Depending on the ordered configuration, the Maverick filter is available with BSPT or NPT threads (inlet, outlet, drain). Every filter is supplied with 1" and 1.5" adaptors to suite the customer´s needs.





Technical Specification

Filter Type	1" Maverick	1.5" Maverick
General Data		
Max. flow rate* (130µ)	5 m³/h (22 gpm)	15 m³/h (66 gpm)
Min. operating pressure downstream when cleaning	1.5 bar (22 psi)	
Max. operation pressure	10 bar (145 psi)	
Filtration area	230cm² (35.6 in²)	
Inlet/Outlet diameter	1" BSPT/NPT	1½" BSPT/NPT
Weight (Empty)	4.15 kg (9.14 lb)	
Electronic Control		
Control power supply	4x AA type batteries	
Flushing data (at 1.5 bar, 22 psi)		
Exhaust valve	1" BSP/NPT	
Flushing time*	15 seconds	
Reject water volume per flush	9.5 L (2.5 gallons)	
Flushing flow rate	2.3 m³/h (10 gpm)	

* The flushing duration will be adjusted in accordance with the working pressure

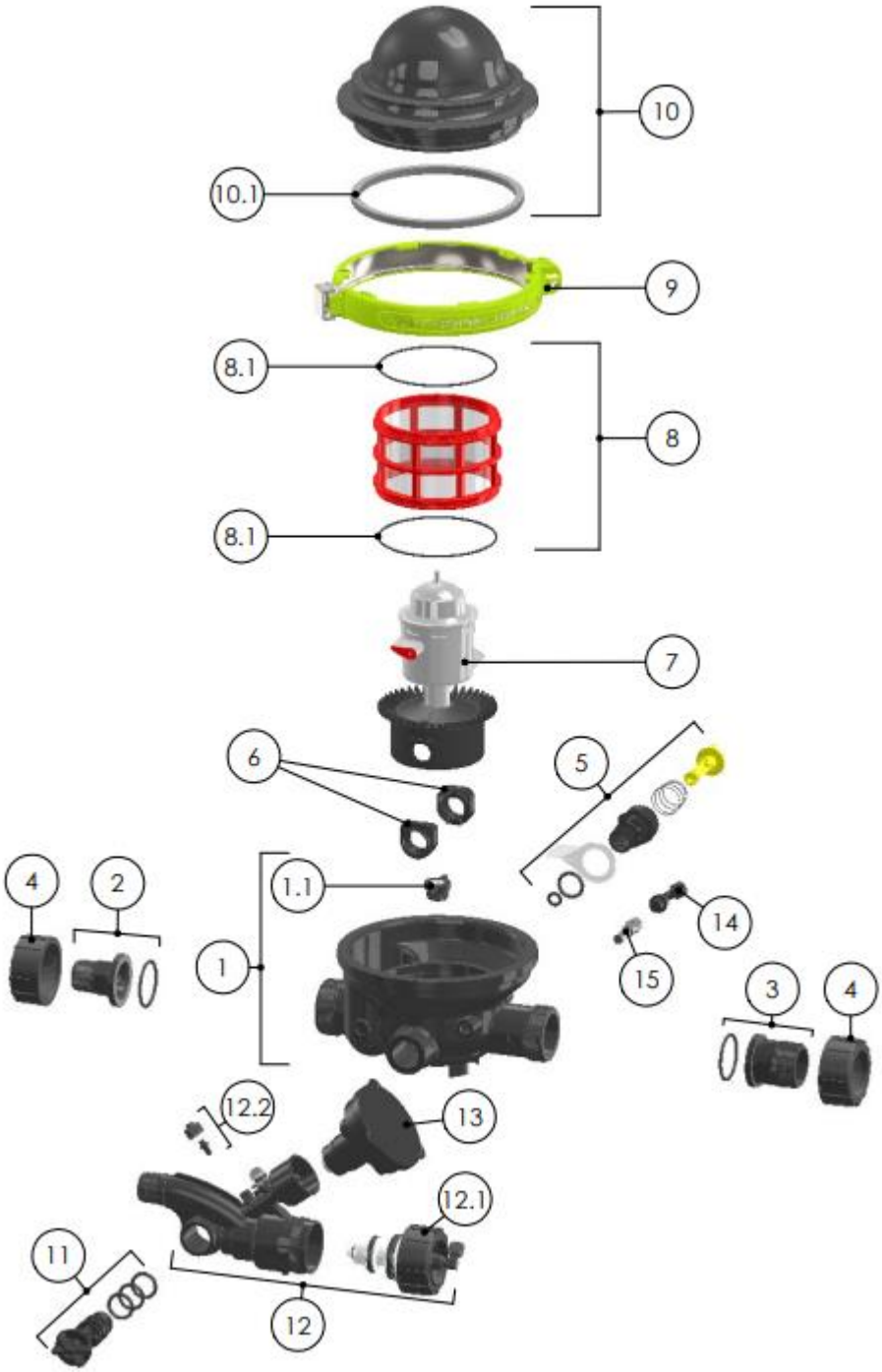
Construction Materials	
Filter housing & Lid	RPA (reinforced polyamide)
Screens	Molded Weavewire
Cleaning mechanism	PPE
Flushing valve	PBT
Seals	EPDM
Command Tubing	PE

Standard Filtration Degrees				
Micron	200	130	100	80
Mesh	80	120	150	180

* Maximum flow rates depend on water quality and filtration degree.*

Maximum working temperature: 5°C - 55°C (41°F - 131°F).

Parts Schedule



Parts List

Please note: The Maverick filter connection ports (inlet, outlet, drain) are available in BSPT or NPT threads. Items no. 2,3,12 depend on the ordered configuration.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	700190-006878	MAV BODY ASSY	1
1.1	700190-006859	BEARING ASSY F/MAVERICK FILTER	1
2	700190-006896	1" RACCORD NIPPLE NPT ASSY F/MAV FILTER	2
2	700190-006876	1" RACCORD NIPPLE BSPT ASSY F/MAV FILTER	2
3	700190-006897	1.5" RACCORD NIPPLE NPT ASSY F/MAV FILTER	2
3	700190-006877	1.5" RACCORD NIPPLE BSPT ASSY F/MAV FILTER	2
4	710101-001772	MAVERICK RACCORD NUT RPA BLACK	2
5	700190-006860	MAVERICK PRESSURE RELEASE ASSY	1
6	710101-001792	MAVERICK BODY NUT RPA BLACK	2
7	700190-006884	MAVERICK FLUSHING ASSY	1
8	700101-002725	WEAVEWIRE SCREEN 130MIC RPP EPDM SEALS	1
8.1	770102-000578	PARKER O-RING 2-158 EPDM 70 SHORE	2
9	700190-006858	CLAMP ASSEMBLY FOR MAVERICK	1
10	700190-006879	MAVERICK COVER ASSY	1
10.1	770104-000440	EPDM BLACK OD181.4MM 70 SHORE MAVERICK HYDRAULIC SEAL	1
11	700190-006881	MAV VALVE SCREW ASSY	1
12	700190-006990	MAV VALVE ASSY NPT	1
12	700190-006891	MAV VALVE ASSY BSPT	1
12.1	700190-006890	MAV VALVE ACTUATOR ASSY	1
12.2	700190-001305	PRESSURE CHECK POINT ASSEMBLY	1
13	700190-006885	ADI-M CONTROLLER	1
14	720501-001342	L-CONNECTOR SWIVEL-QUICK 1/4"M X8MM BSP RPP BLACK TEFEN	1
15	730110-000095	1/4"M/F FINGER FILTER S/ST316	1

Installation Preparations

Pre-Installation Requisites

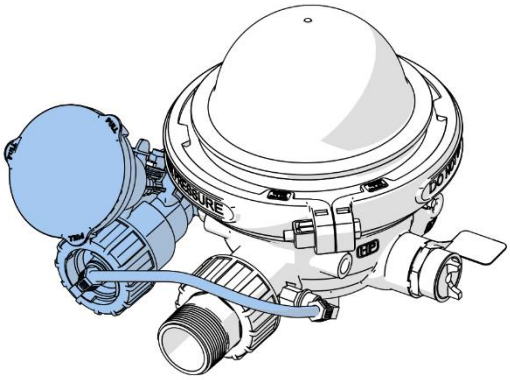
- Before installation, carefully read the safety instructions section and ensure that all workers at the installation site are fully aware of and comply with these and any other local safety instructions.
- If possible, before installing the filter, thoroughly flush the main line at the connection point to remove large particles that may damage the filter's internal parts.
- The water supply system should be suitable to provide the working flow, pressure, and the required flushing flow rate, as the filter's specification defines.
- Installation of a manual isolating upstream valve is recommended for maintenance and service activities.
- Ensure that the flow direction is aligned with the arrows marked on the filter inlet.
- Flush pipe:
  - **The flush pipe diameter should be 1" minimum and should be designed to create minimal resistance with the flushing flow rate.**
  - **To allow efficient flush flow, the flush line restriction should not exceed 0.05 bar (0.7 psi).**
  - Consult the manufacturer for solutions in cases where the flushing line is going to a higher ground level as it may affect the flush valve operation hence the cleaning efficiency.

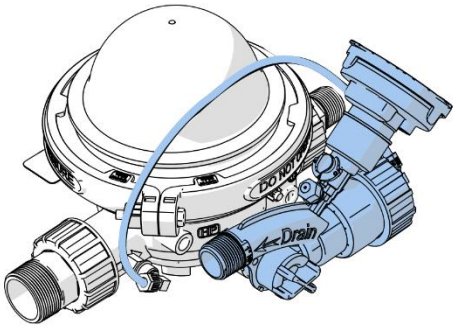
Installation Configuration

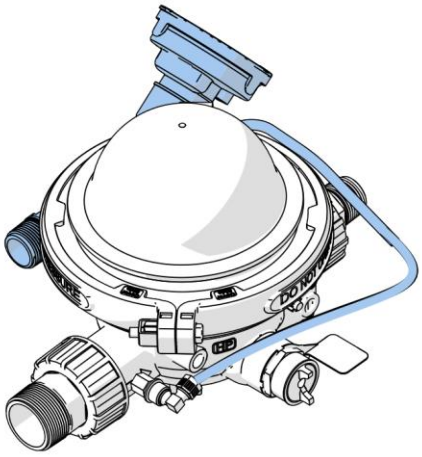
The Maverick filter can be installed horizontally or vertically.

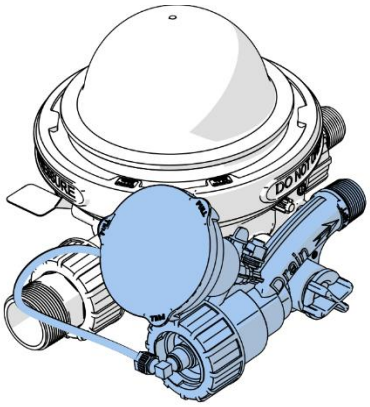
Important: changing the filter configuration must be done when the filter is released from residual pressure. See "Filter Disassembly" chapter for pressure release instructions.

In case there are site installation restrictions that require a different configuration from the original Maverick configuration, the flush valve location and direction can be changed between four configuration options:





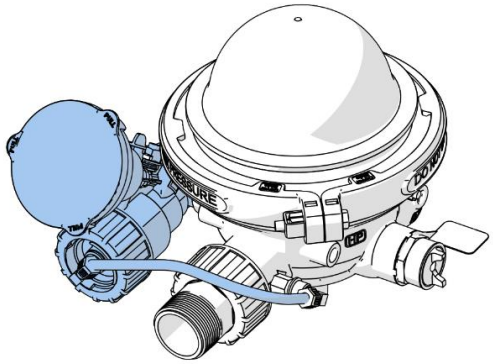




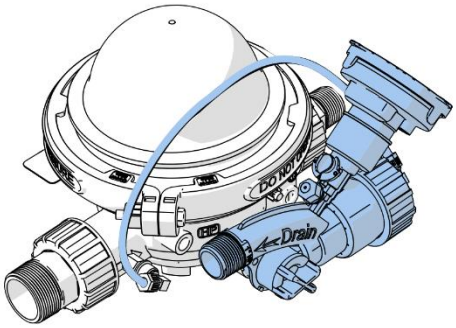
Changing the flush valve assembly location

To change the flush valve location on the filter body from one side to the other, follow these steps:

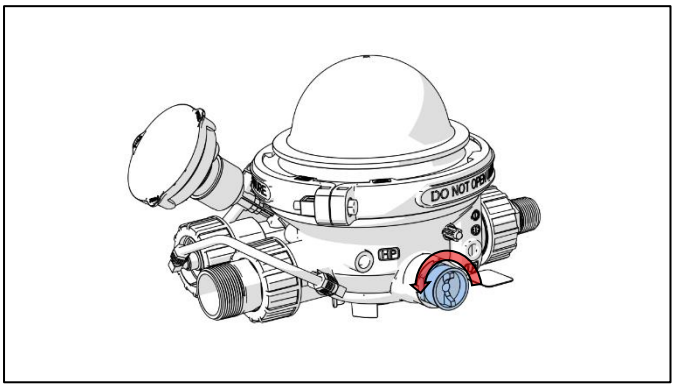
Configuration A



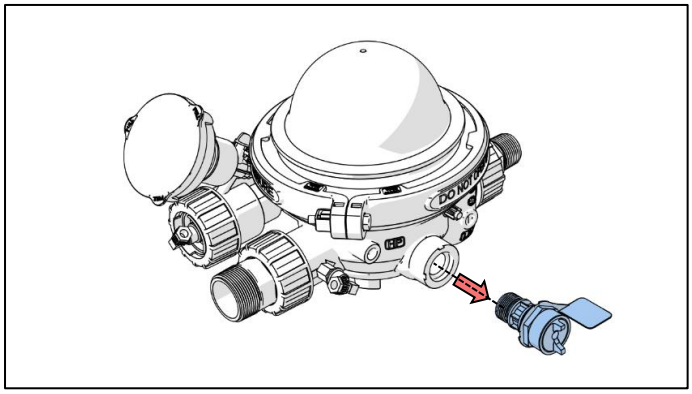
Configuration B



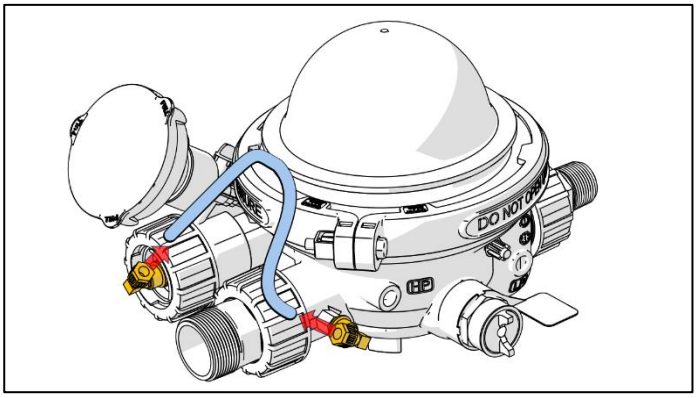
1. Turn the Pressure Release Assembly counterclockwise.



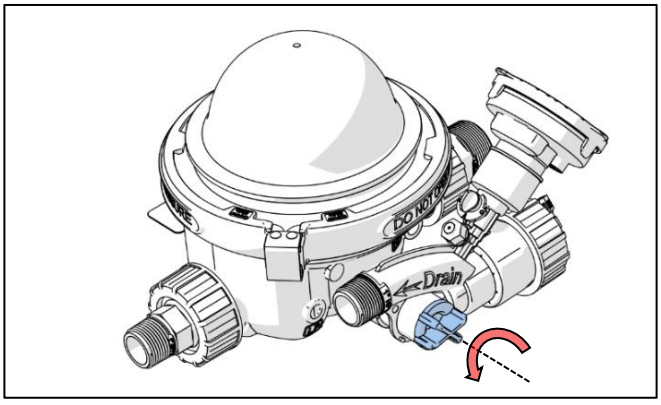
2. Pull the Pressure Release Assembly out.

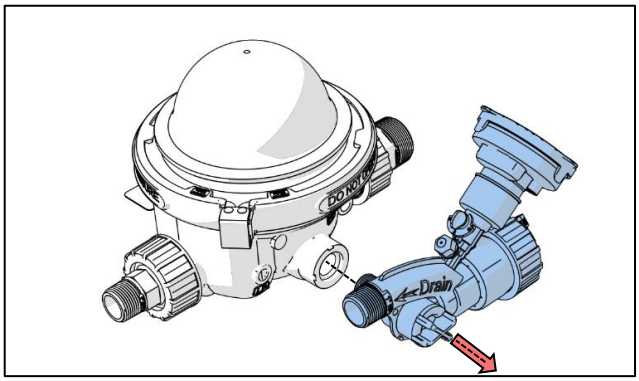


3. Disconnect the command tube from the flush valve and the finger filter.

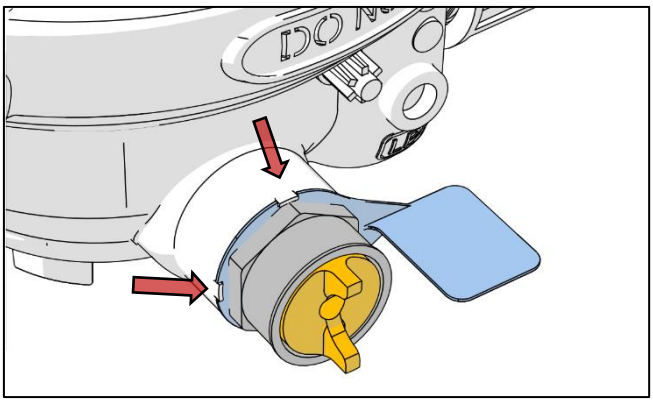


4. Unscrew the flush valve assembly screw.

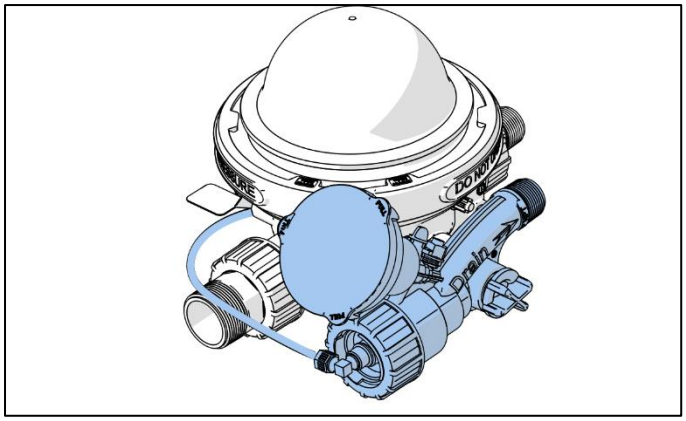




6. Reinstall the Pressure Release Assembly on the other side of the filter body (the original location of the flush valve assembly). Once the assembly is tightened, make sure the pressure release sign is in the right position.



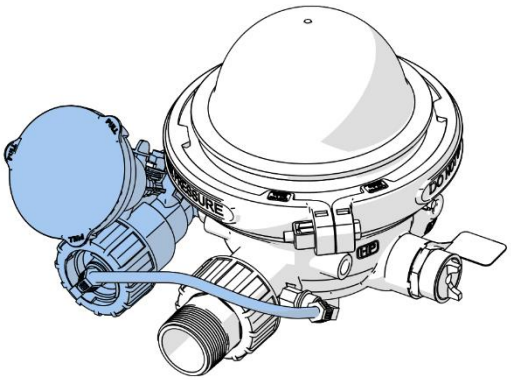
7. Reinstall the flush Valve assembly on the other side of the filter body (the original location of the pressure release assembly) The drain outlet is now pointing to the filter's inlet port.
8. Connect the long command tube supplied in the carton box and connect it to the flush valve and finger filter.



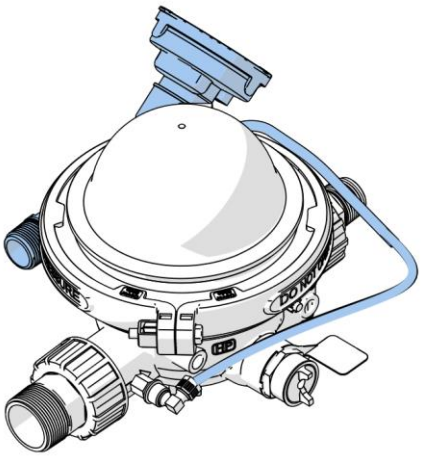
Changing the flush valve assembly direction

In each location, the flush valve assembly direction can be rotated 180^{o} degrees horizontally.

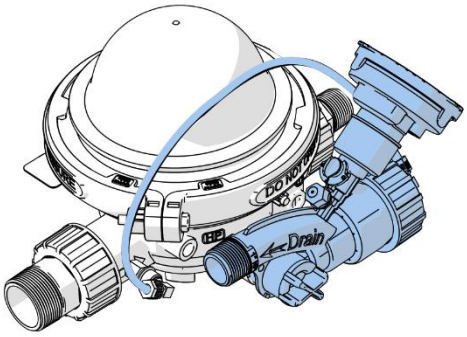
Configuration A



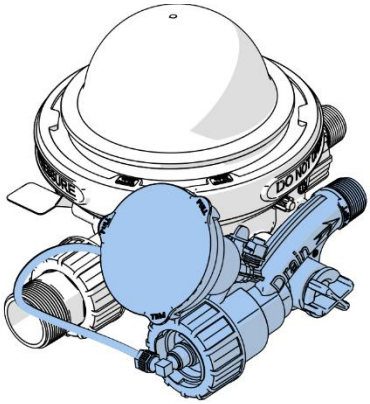
Configuration C



Configuration B

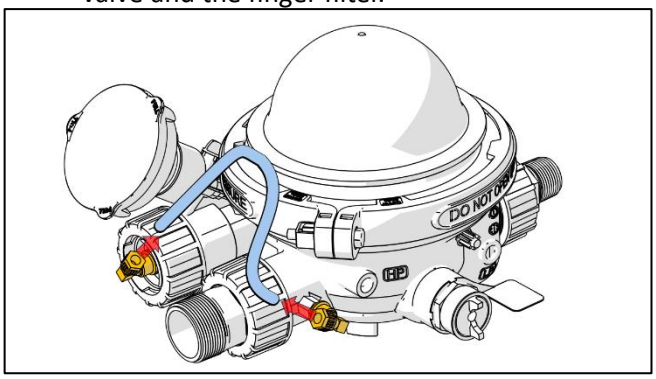


Configuration D

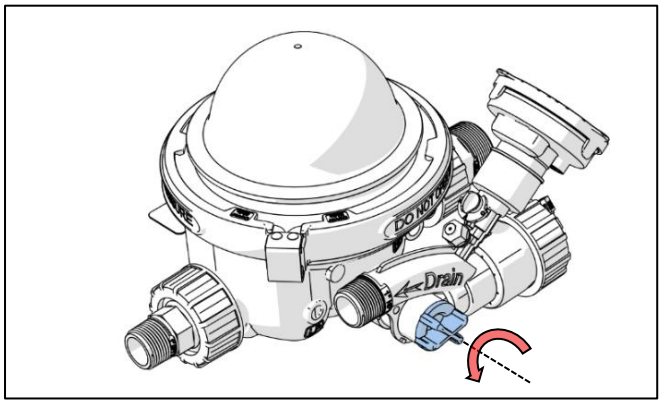


To change the flush valve direction, follow these steps:
Note: the process is identical when moving from config. A to C or B to D. the difference is in step 5 when choosing the correct command tube length.

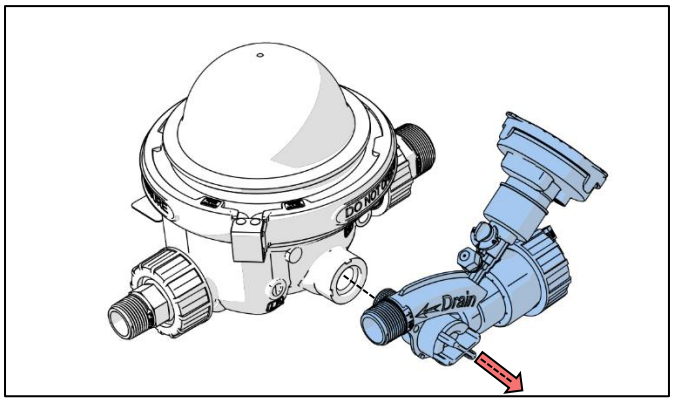
1. Disconnect the command tube from the valve and the finger filter.



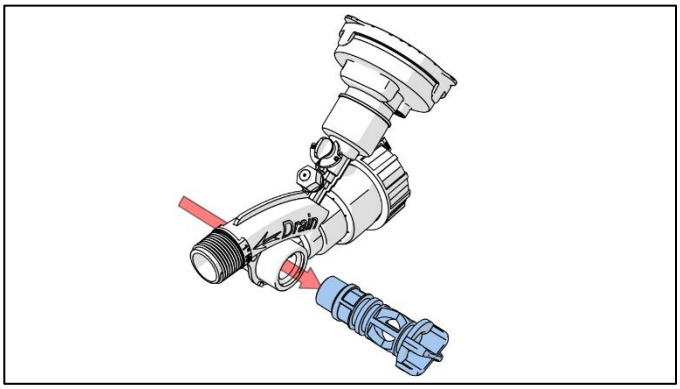
2. Unscrew the flush valve assembly screw.



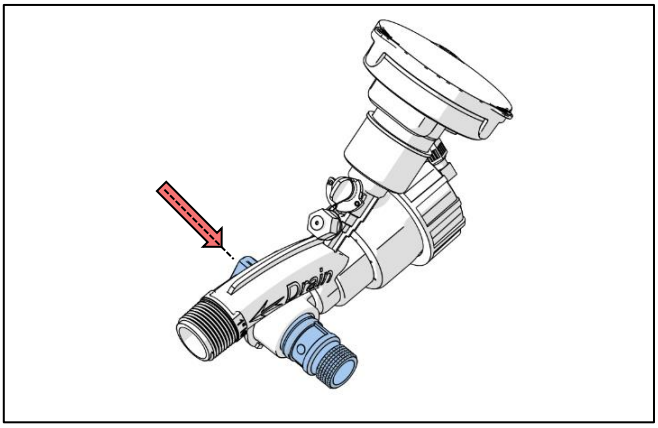
3. Pull out the flush valve assembly.



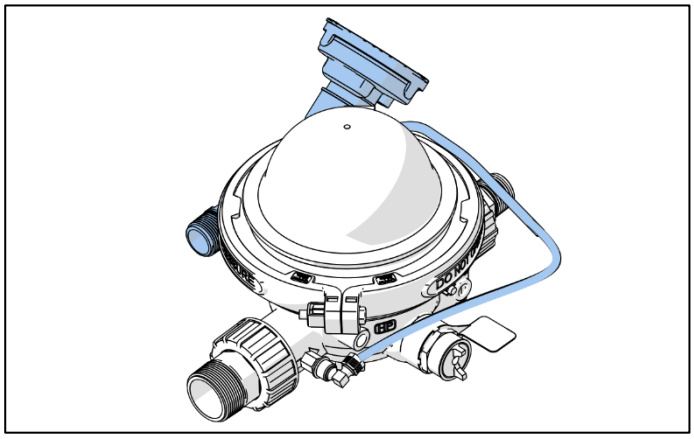
3. Push the valve screw out.



4. Insert it from the other side of the valve assembly.



6. Turn the valve assembly 180^{o} degrees horizontally and reinstall it to the filter body by tightening the flush valve assembly screw. Use the long/short command tube (depending on the desired configuration) and reconnect it to the valve and the finger filter.

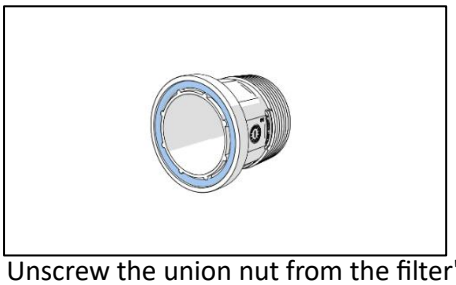


Installation Instructions

Note: It is recommended that you install a manual isolation valve that allows you to close the water supply to the filter for maintenance.

The Maverick filter can be installed horizontally or vertically. To install the filter, connect the filter's 3 ports (inlet, outlet, drain) to the water system by following these steps:

1. Select the correct adaptor size according to the customer's water system connections diameter (1" or 1.5" supplied in the package).
2. Make sure the adaptor o-ring is in its place.



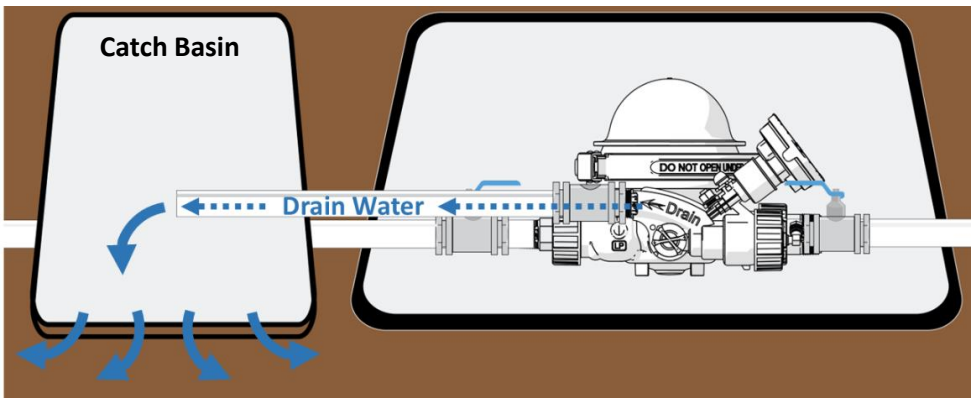
3. Unscrew the union nut from the filter's inlet and outlet ports.
4. Assemble the inlet and outlet adaptors to the union nuts.
5. Assemble the union assembly to the inlet and outlet ports of the filter. Tighten by hand force.
6. Connect the inlet port of the filter to the upstream side of the water network.
7. Connect the outlet port of the filter to the downstream side of the water network.
8. Connect the drainpipe to the filter's flushing valve ensuring the flush pipe diameter is 1" minimum and the restriction does not exceed 0.05 bar (0.7 psi).

Leave enough clearance to enable easy access to the filter and controller for future treatments and safe maintenance operations.

Underground Installation

The Maverick fits into a standard Jumbo Box.

When installing a drainpipe*, it is recommended that a Catch Basin will be used next to the Jumbo Box and that the drainpipe will be as short as possible.



*** Make sure the drainpipe diameter is 1" minimum. The drainpipe back pressure should not exceed 0.05 bar (0.7 psi).**

Initial Operation

Carefully read the Installation & Operation instructions prior to any attempt to operate the filter.

The Maverick is equipped with the ADI-M controller, managed and monitored by the ADI-BLE App.

In case you have an existing ADI-BLE account, skip the setup and registration process. If not, follow these steps:

1. Download and install the ADI-BLE application on your mobile.

The free ADI-BLE application can be downloaded from Google Play or the App Store.:

Scan QR code to download the mobile app:

Google Play:

Apple Store:

ADI-M Controller Quick Guide

Important:

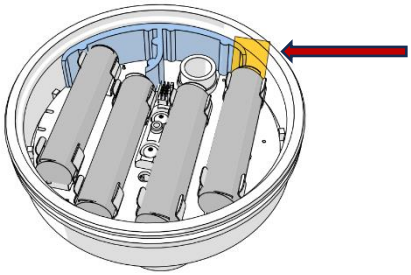
This ADI-M quick guide aims to set up the Maverick filter and App to work. To learn more about the App, please refer to the complete ADI-M user manual available on the ADI-BLE App.

Safety First

- Carefully read this manual prior to operating the controller.
- *Please note: The filter enters flushing mode automatically without warning.*

Activating the ADI-M controller

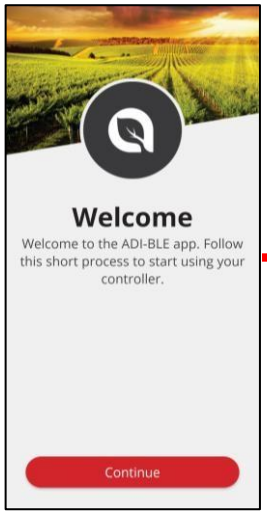
Open the cover of the ADI-M Controller by pulling it and remove battery isolation slip (if required - insert four alkaline 1.5V AA batteries). A click sound indication will confirm the controller has been turned on.



The ADI-M Controller operates according to its pre-defined default flushing program (1 flush per 24h).

The ADI- BLE Mobile Application

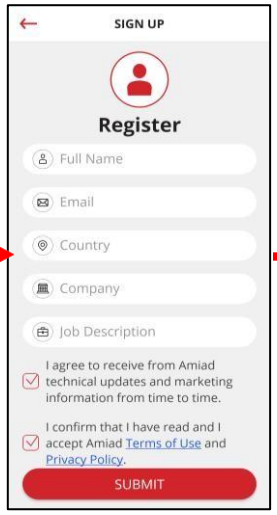
Setup and registration of the ADI-BLE mobile app



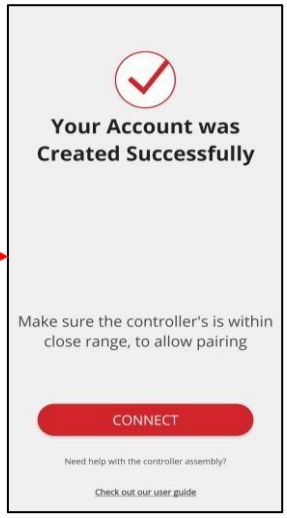
Welcome!

Click “continue”

Select System units and click “OK”

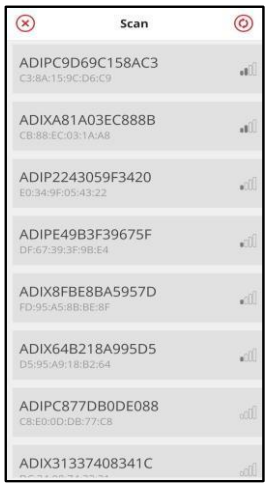


Complete your details and click “Submit”

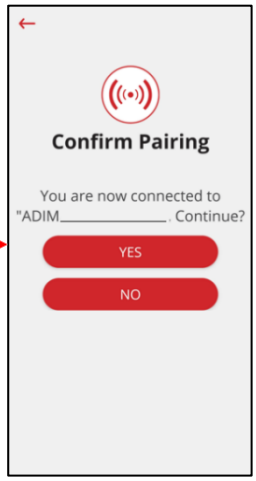


Registration is done.

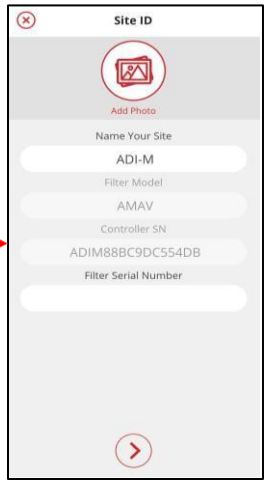
Click CONNECT to proceed



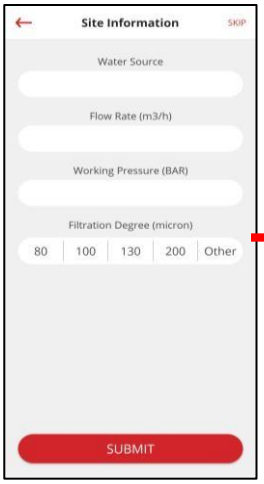
Scan for the ADI-Controller



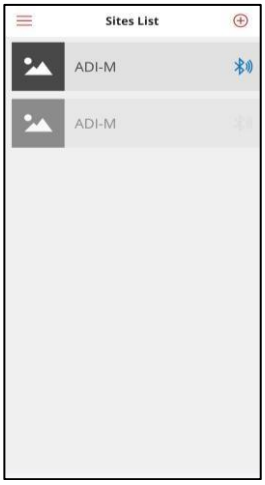
Confirm pairing, press "Yes"



Complete the SITE ID form



Enter the SITE INFO details (optional). Once done click



Select the active controller from the SITE LIST, marked by the active Bluetooth® icon.

The **ONLINE STATUS** screen appears and relevant data regarding your filter's performance can be viewed.

The upper red line	Displays the name of the currently connected controller and the communication status.
Time from last flush	The time since the end of the last flush cycle.
Last flush cause	The trigger that initiated the last flush.
Pressures - Inlet	The current reading of the filter's inlet pressure.
Manual Flushing	Press this icon to start a manual flush cycle.

Flushing Settings

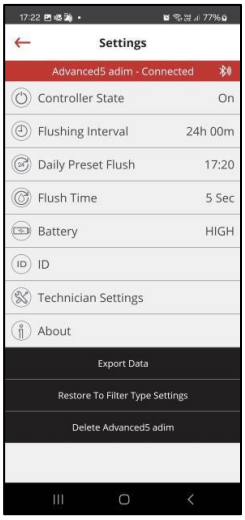
The ADI-M controller allows you to control the flushing time through two features: flushing interval or watering window (pre-set).

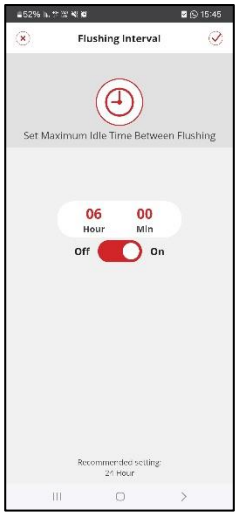
Flushing Interval

The flushing interval function allows you to set the time between flushing.

Steps to set the flushing interval:

1. Open the ADI-BLE App and locate your controller.
2. Navigate to the **Settings** menu.
3. Select **Flush interval**.
4. Set the interval time.



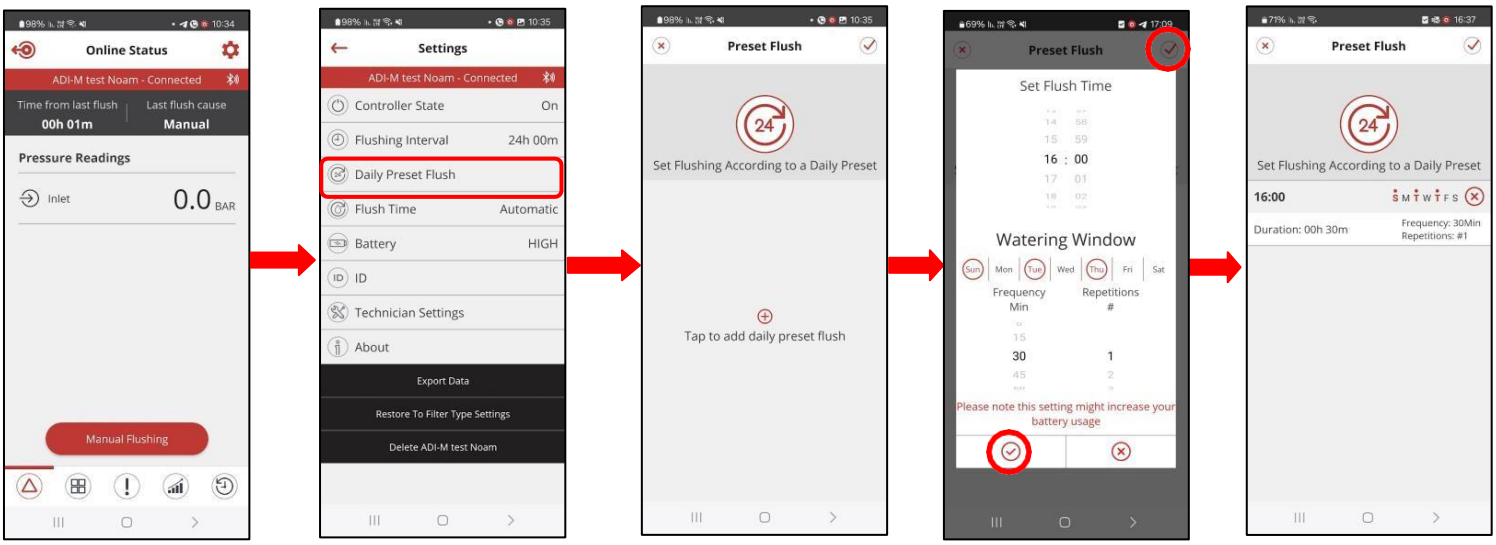


Watering window (Pre-set)

The watering window feature enables you to set your controller according to your watering window and on specific days. This function offers greater flexibility and enhanced control over your filtration system.

Steps to set the Watering Window**:**

1. **Open** the ADI-Ble App and locate your controller.
2. Navigate to the **Settings** menu.
3. **Select** Daily Preset Flush
4. **Tap** the + button to start configuring your preference
5. **Set** your time and days you would like to
6. **Save** your changes by clicking twice on the √

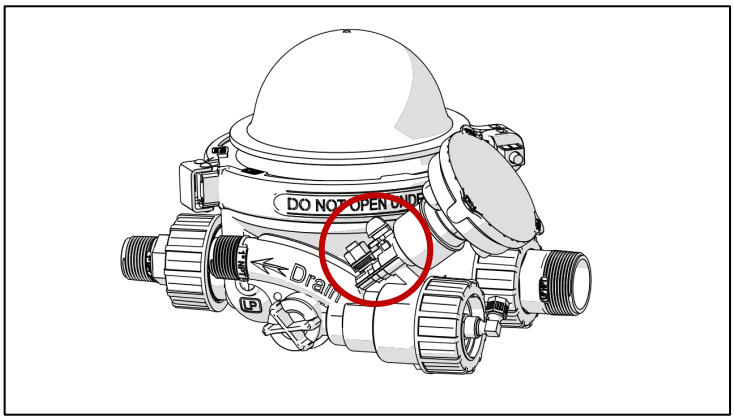


Filter Initial Operation

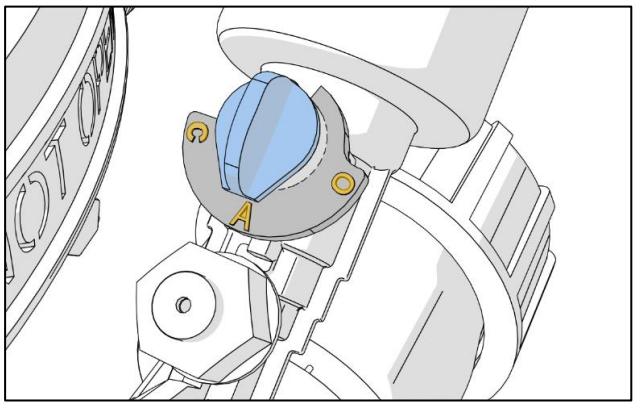
The Initial Operation process should be followed once the installation is completed, at the beginning of the watering season, or after a maintenance procedure. It is essential to perform initial operation procedures exactly as described in this manual.

1. Ensure that the controller and the mobile application are paired and active, (on the "Online Status" screen as described in the “ADI-M Quick Guide” in this manual).
2. Open the inlet valve slowly. If there is a downstream valve keep it closed.
3. Open the outlet valve slowly (if exists).
4. Make sure there are no leaks in the filter.

5. Perform a manual flush using the manual override (located on the flushing valve assembly circled in red below).



- To operate a manual flush by the override – Rotate the switch to the open (O) position (note: water will come out of the flush valve drain).
- Return to Automatic mode – make sure the switch is at auto (A) position.



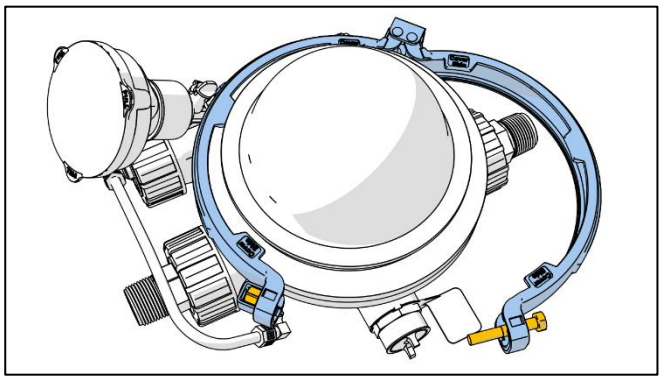
Set the controller backwash operation regime according to the system needs (by using the “ADI-M Quick Guide” on this manual).

Filter Disassembly

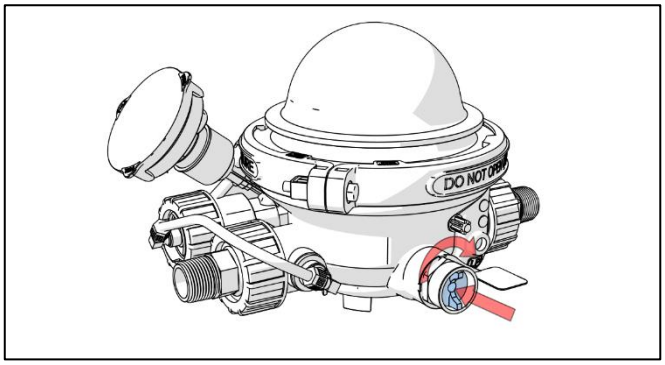
Before any maintenance operation, read the safety instructions chapter and make sure to comply with the relevant local safety regulations.

***Attention**: Never open the filter before the pressure has been released.*

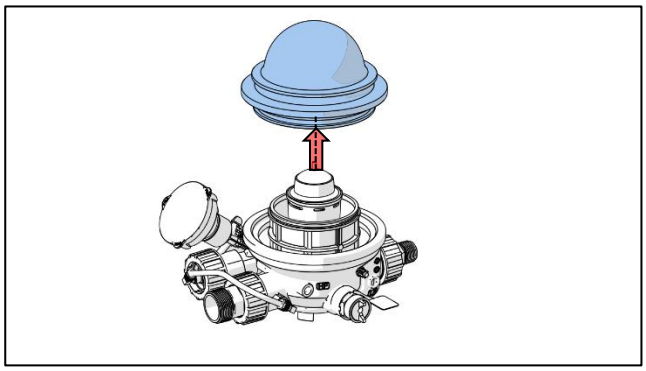
1. Isolate the filter from the water system by closing the inlet valve. In cases where the downstream piping network is pressurized, close and secure the



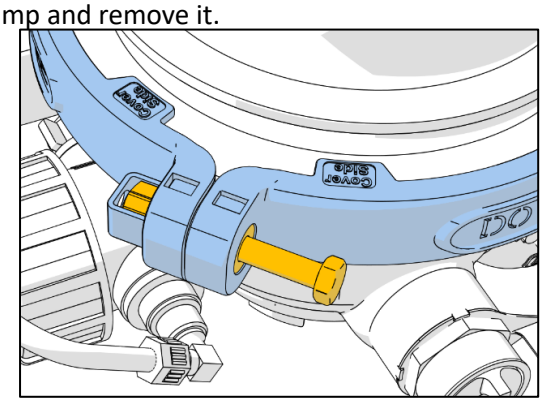
2. Release the residual water pressure and empty the filter by pressing the yellow pressure release valve and turning it clockwise to lock it into a secure position. The pressure release valve must remain open until the maintenance procedure is completed. Once water stops coming out of the pressure release valve, you may open the filter cover.



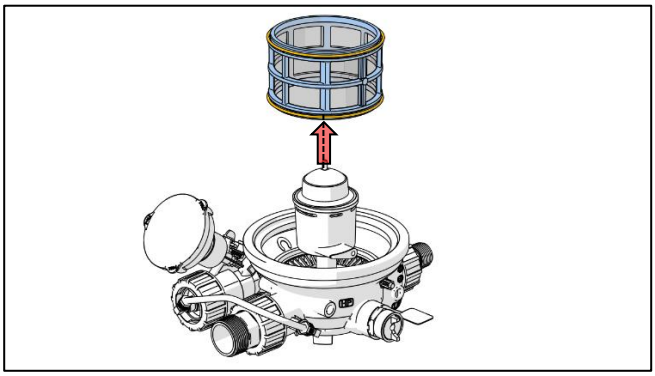
4. Remove the filter cover by pulling it up.



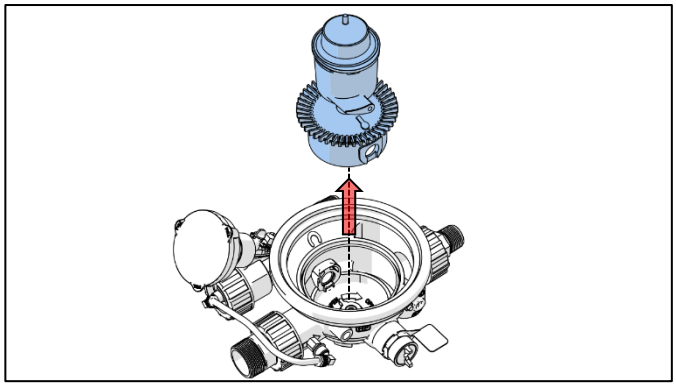
3. Use a 13mm or ½" wrench to open the filter cover clamp and remove it.



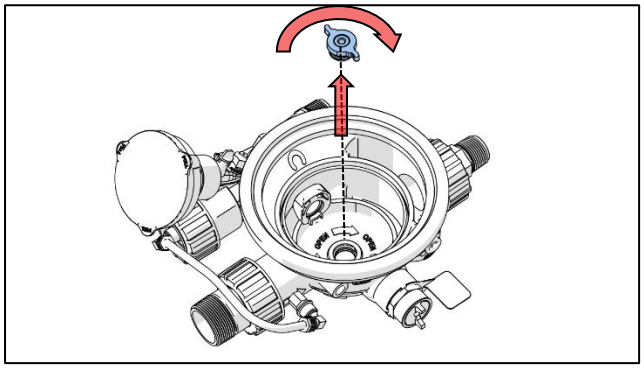
5. Remove the screen by pulling it up.



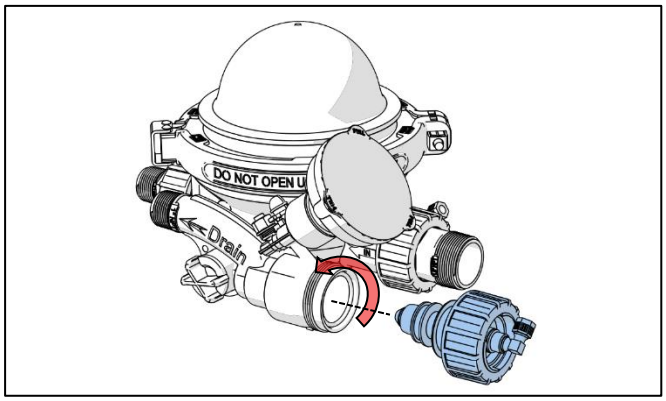
6. Remove the flushing mechanism and pre-screen by pulling the entire assembly up.



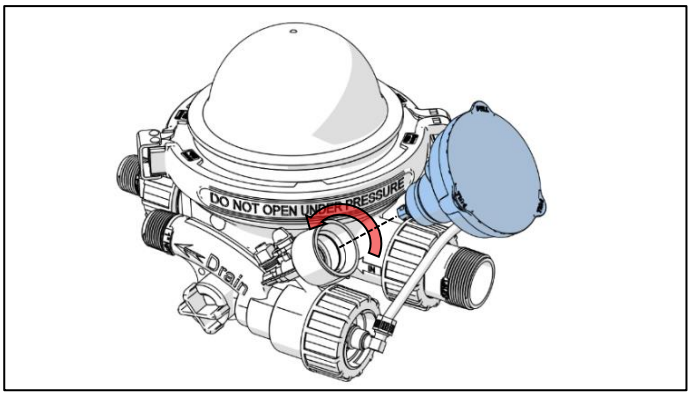
7. The bearing assembly can be unscrewed (clockwise) and removed.



8. Unscrew the valve actuator to remove it.



9. Unscrew the controller to remove it.



Filter Assembly

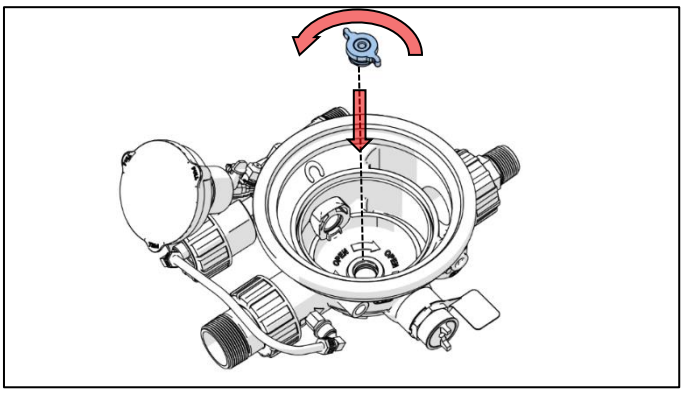
Please follow these steps before reassembling the filter:

1. Make sure that all parts are undamaged.
2. Replace any dry or damaged seals and apply silicon grease (760190-000127 tube of grease PG-21) on those to be assembled.
3. Make sure the filter housing is clean.
4. Make sure the screen is clean.
5. The pressure release valve should remain open until reassembly is completed.

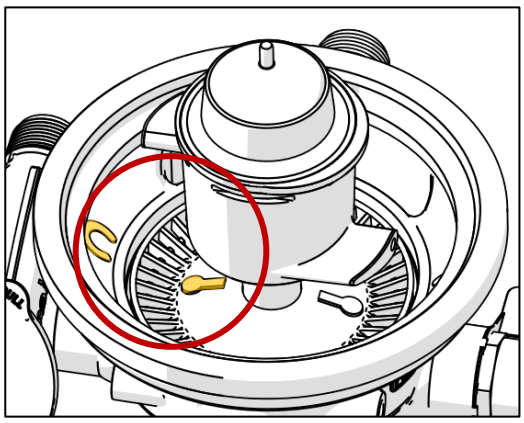
Filter Assembly

1. Ensure that the filter housing is well connected to the water system.

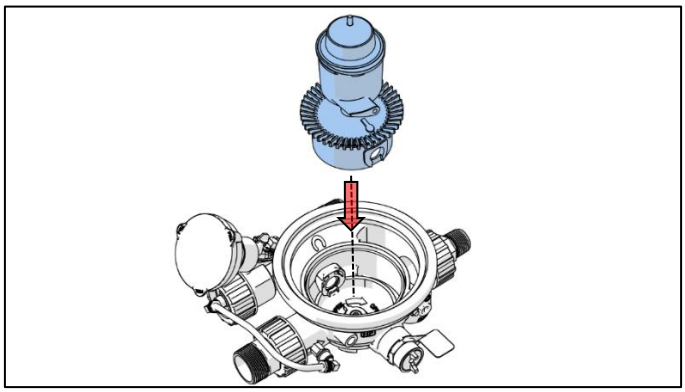
2. Assemble the bearing assembly back to the filter housing - note this is a counterclockwise thread. Make sure the housing thread is clean.



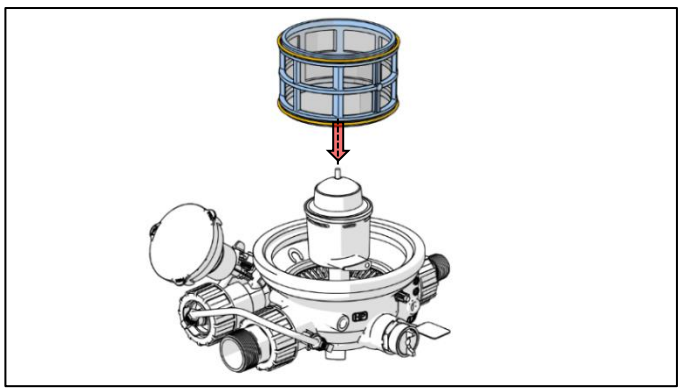
Ensure the flushing mechanism aligns with the housing notches (highlighted in yellow in the drawing below). Once in place, make sure the flushing mechanism is turning freely.



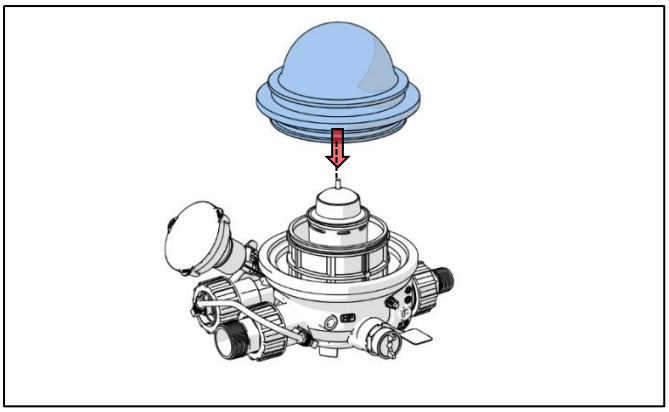
3. Assemble the flushing assembly unit into place.



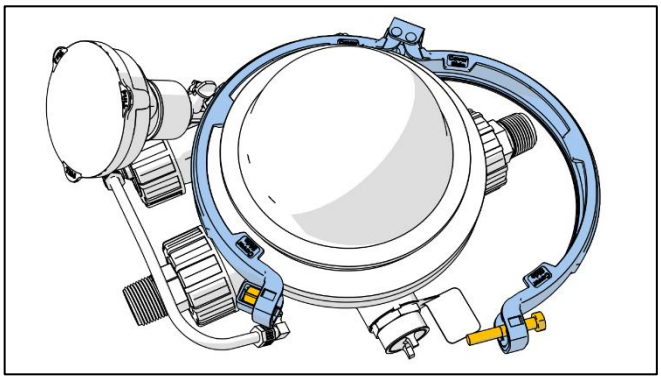
4. Reassemble the screen into the filter housing. Note the O-rings on the screen are in place.



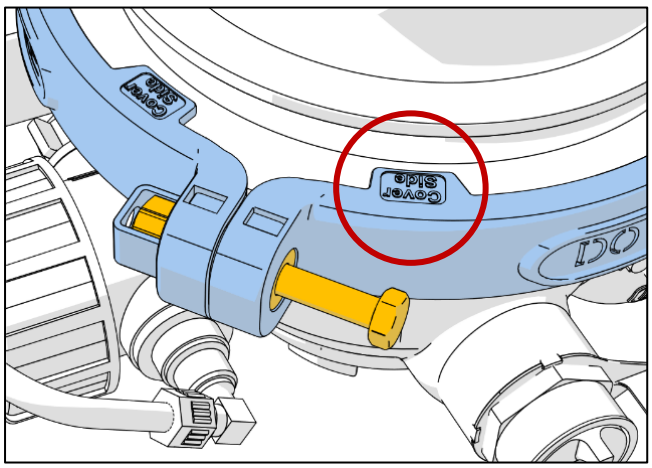
5. Place the cover onto the filter.



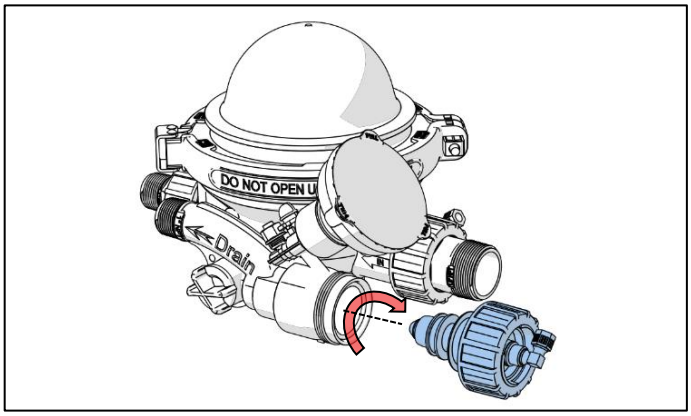
6. Reassemble the clamp onto the filter cover and housing and tighten with a 13mm or ½" wrench. Note the clamp is assembled with the cover side indication (circled in red) facing the cover



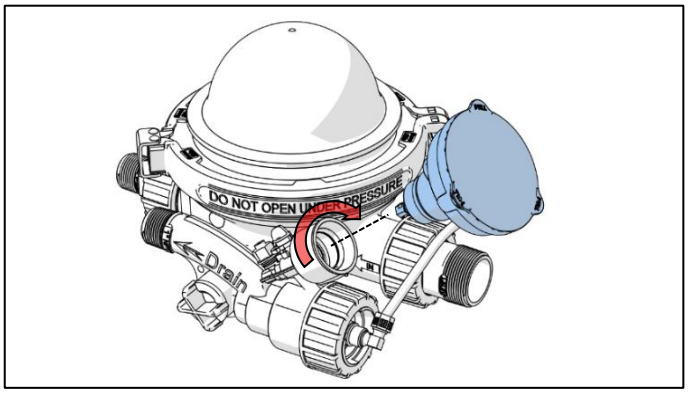
Note the clamp is assembled with the cover side indication (circled in red) facing the cover



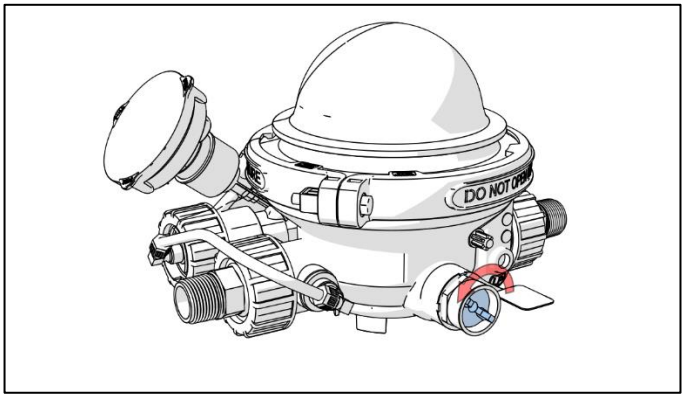
7. Reinstall the valve actuator.



8. Reinstall the controller.



9. Close the pressure release valve to its default position by turning the yellow valve counterclockwise until it bounces back.



10. Initiate the filter operation by following the initial operation process (see "Initial Operation" chapter).

Maintenance

Required tools for maintenance

Use only appropriate standard tools and equipment operated by qualified operators when installing, operating and maintaining the filter.

- 13mm or ½" open wrench/socket - used for the Maverick clamp.
- 17mm socket - used for the finger filter.
- 9/16" open wrench - used for the finger filter L connector

All other connection ports (inlet, outlet, drain) and filter parts should be tightened by **hand force only,** no tools needed.

Routine inspection

A general inspection of the filter operation should be done regularly and before any scheduled maintenance procedure. This includes pre-season, post-season, and seasonal check-ups.

The maintenance requirements of automatic self-cleaning filters are directly related to their flushing frequency, which depends on the watering window, flow rate and water quality. Therefore, the frequency of scheduled routine maintenance activities should be determined during the initial operation and first few months of operation.

It is essential to follow the flushing frequency and react on time when an unusual change is detected.

It is recommended that the filters will be included in the routine equipment inspections of the installation site, and that any leakage or damage will be treated as early as possible.

Routine inspection procedure

1. Initiate a flushing cycle (manually or via the ADI-BLE App).
2. Check that the flushing valve opens and closes normally.
3. Visually check the filter housing and valve for leakage.
4. Check Controller battery power (via ADI-BLE App).

Annual maintenance

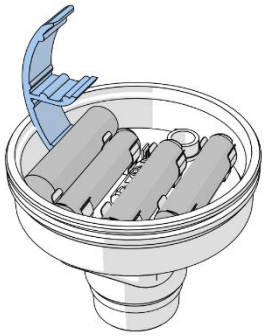
A thorough overhaul maintenance is recommended once every year/season. Before beginning any maintenance procedure, carefully read the safety instructions and make sure that the staff is fully aware of and complies with these and any other relevant local safety instructions. The thorough maintenance operation will include the following:

1. Perform a flushing cycle (if possible, with a closed downstream valve).
2. Release pressure from the filter using the pressure release valve and drain it.
3. Filter disassembly (see "Filter Disassembly" chapter).
4. Visual inspection of the screen - check the screen for clogged surface and any mechanical damage.
5. Rinse the screen with a pressure washer from outside-in and then rinse their interior surface.
6. Finger filter maintenance:
    - Disconnect the command tube from the finger filter.
    - Disconnect the L connector from the finger filter with a 9/16" open wrench.
    - Unscrew the finger filter using a 17mm socket and pull it out.

- Rinse the Finger filter with a pressure washer.
- Assemble and connect all parts back using the correct tools.

7. In case of damaged cover seal or screen o-rings, replace them with the Maverick seals set components.
8. Unscrew the valve actuator and apply grease on the seals and the actuator cylinder.
9. Filter re-assembly (see "Filter Assembly" chapter).

10. Replacement of the controller batteries. A designated battery remover placed within the controller can be used to easily remove the batteries.



11. Reset the controller flushing counters via. ADI-BLE App.
12. Initiate the filter's operation (see "Initial Operation" chapter).

Mineral Scaling/precipitation

Screen cleaning is required as part of the maintenance procedure or if the filtration system is significantly clogged. In most cases cleaning with a pressure washer is sufficient.

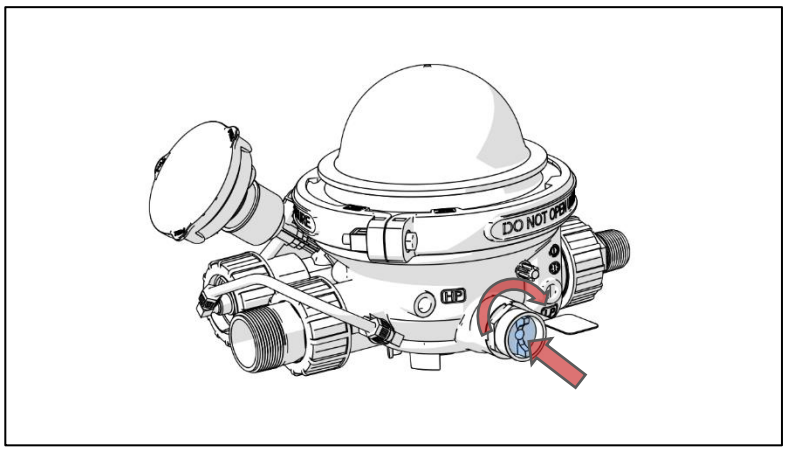
If the Screen is clogged with scale or precipitants that cannot be removed by pressure washing, chemical treatment is required. Chemical or detergent selection depends on the precipitants.

WARNING! *Chemicals are harmful to people and equipment. Read and follow manufacturer's instructions and MSDS. Use ALL precautions and protective gear when working with Chemicals to prevent contact with skin, eyes & mouth.*

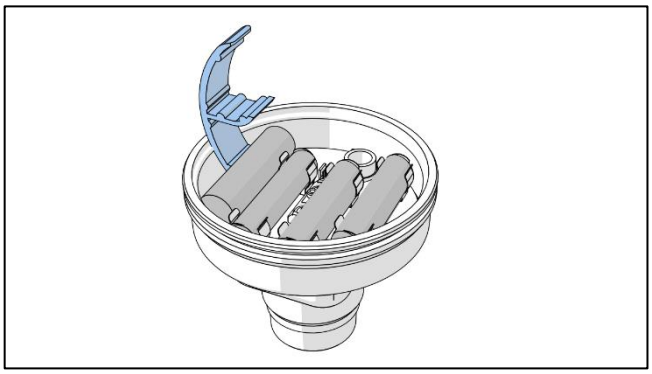
Winterization

To prevent frost damage to the filter, the filter must be drained prior to freezing conditions.

1. Initiate a manual flush (manually or via ADI-BLE App) for 15 sec to clean the screen for the shutoff period.
2. Close the isolation valves (inlet and outlet, if they exist).
3. Initiate an additional manual flush to release the pressure inside the filter.
4. Open the pressure release valve by pressing and turning the yellow valve clockwise to lock it into a secure position.



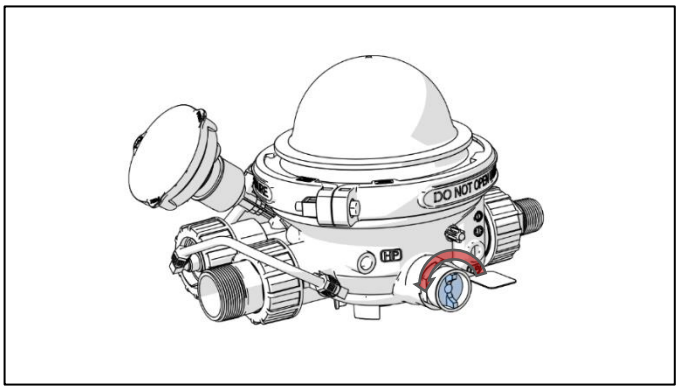
5. Remove the four alkaline 1.5V AA batteries from the controller. A designated battery remover placed within the controller can be used to remove the batteries easily.



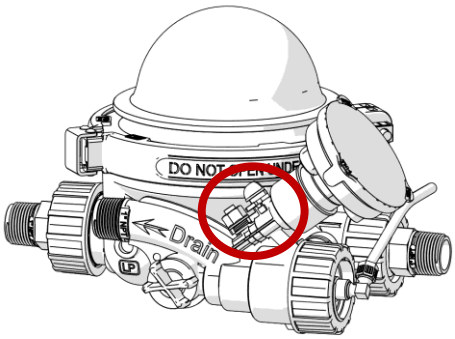
Reactivation

Prior to reactivation, perform the following steps:

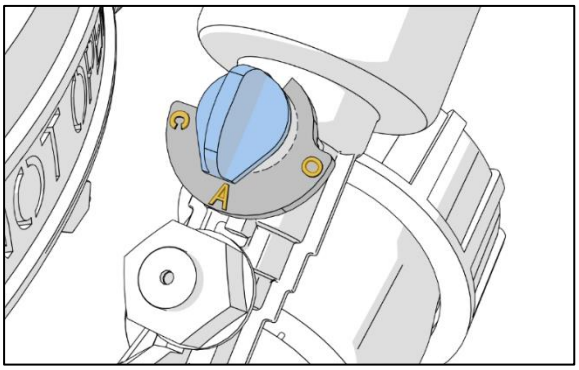
1. Insert four alkaline 1.5V AA batteries into the ADI-M controller.
2. Close the pressure release valve to its default position by turning it counterclockwise until the yellow valve bounces back.



3. Open the inlet valve slowly. If there is a downstream valve keep it closed.
4. Perform a manual flush using the manual override (located on the flushing valve assembly circled in red below).



- To operate a manual flush by the override – Rotate the switch to the open (O) position (note: water will come out of the flush valve drain).
- Return to Automatic mode – make sure the switch is at auto (A) position.



5. Open the outlet valve slowly (if exists).
6. Make sure there are no leaks in the filter.

Troubleshooting

<table>
<tr><th>Symptom</th><th>Possible Causes</th><th>Required Action</th></tr>
<tr><td>1. System outlet flow rate seems to be lower than usual</td><td>Filter is clogged</td><td>Manually clean the screen:
a. Isolate the downstream valve and initiate a flush.
b. Isolate the filter and release the pressure.
c. Follow the disassembly instructions chapter.
d. Clean the filtration screen and the coarse screen.
e. Follow the assembly instructions chapter.
f. Follow the initial operation instructions on this manual.</td></tr>
<tr><td>2. Frequent/excessive flush cycles</td><td>Freezing protection activated</td><td>Option a: The water temperature is lower than the controller temperature threshold.
Check your water source temperature to confirm the ADI-M controller reading is according to settings.
Option b: Flushing settings should be updated.</td></tr>
<tr><td rowspan="3">3.The filter doesn’t flush automatically (electronic controller)</td><td>Controller batteries power is low.</td><td>Check battery status with the ADI-BLE mobile app.
Replace the ADI-M controller’s batteries if needed.</td></tr>
<tr><td>The solenoid override is set on closed position</td><td>Switch manually the solenoid override to “Auto” position.</td></tr>
<tr><td>Not sufficient system pressure</td><td>Check your system pressure is according to the minimum pressure needed to the ADI-M controller.
Confirm flushing settings are correct.</td></tr>
<tr><td rowspan="4">4. The flushing valve remains open</td><td>The solenoid override is set on open position</td><td>Switch manually the solenoid override to “Auto” position.</td></tr>
<tr><td>Excessive back pressure on the flushing line</td><td>Consult Amiad team.</td></tr>
<tr><td>ADI-M Controller is set for too long flush time.</td><td>Set the ADI-M flush time according to the recommended settings per your system pressure.
Follow the table below.</td></tr>
<tr><td>Flushing valve mechanism fault</td><td>Open the flushing valve assembly and make sure the valve is clean.
Open the finger filter assembly and make sure it is clean.</td></tr>
<tr><td>5. The screen is not cleaned thoroughly.</td><td>Flushing time duration is not sufficient. change the setting to manual and choose the flushing duration from the table according to your downstream pressure.</td><td>a. Open the ADI-BLE App and locate your controller.
b. Navigate to the Settings menu.
c. Select Flush Time.
d. Choose Manual mode.
e. adjust the flushing duration according to the table below
<table><tr><th colspan="2">Flow</th><th colspan="2">Working Pressure</th><th>Flushing Time</th><th colspan="2">Flushing Volume</th></tr><tr><th>m³/ h</th><th>gpm</th><th>bar</th><th>psi</th><th>Sec</th><th>Liter</th><th>Gallon</th></tr><tr><td>2</td><td>8.8</td><td>1.5</td><td>22</td><td>15</td><td>8</td><td>2.1</td></tr><tr><td>2</td><td>8.8</td><td>2</td><td>29</td><td>10</td><td>7</td><td>1.8</td></tr><tr><td>3</td><td>13.2</td><td>3</td><td>43.5</td><td>7</td><td>6</td><td>1.6</td></tr><tr><td>4</td><td>17.6</td><td>4</td><td>58</td><td>6</td><td>6</td><td>1.6</td></tr><tr><td>4</td><td>17.6</td><td>5</td><td>72.5</td><td>5</td><td>5</td><td>1.3</td></tr><tr><td>5</td><td>22</td><td>6</td><td>87</td><td>3</td><td>4</td><td>1</td></tr></table></td></tr>
<tr><td>6. Pressure drops dramatically for a long period of time during network filling-up</td><td></td><td>Install a pressure sustaining valve downstream of the filter.</td></tr>
</table>

Amiad Limited Warranty

1. This certificate applies to Amiad Water Systems Ltd. ("Amiad") products purchased by you (the "Buyer") from Amiad unless specifically agreed otherwise in writing by Amiad. This Warranty extends only to the original purchaser, and is not transferable to anyone who subsequently purchases, leases, or otherwise obtains the product from the original purchaser.
2. Amiad hereby warrants that the products are and will be free from defects in material and workmanship under normal use and service. Amiad warrants that it will correct manufacturing defects in the products, in accordance with the conditions set out in this Warranty.
3. This Warranty is enforceable for a period of 12 months after the date upon which the products were delivered (the “Warranty Period”).
4. In the event that during the Warranty Period the Buyer discovers a defect in material and/or workmanship in any product or part (the “Defective Product”), it shall submit a written complaint to Amiad using Amiad's standard Buyer Complaint Form. For the receipt of the Buyer Complaint Form, the submission of the complaint or any questions please contact your service representative.
5. Upon written demand by Amiad the Buyer shall return the Defective Product - or a sample thereof - to Amiad, at Amiad's cost. If the Buyer ships any such Defective Product, Amiad suggests the Buyer package it securely and insure it for value, as Amiad assumes no liability for any loss or damage occurring during shipment. Provided however that in the event Amiad determines that this Warranty does not apply to such product, Buyer shall promptly reimburse Amiad for such cost (including freight and customs). Any returned product or part must be accompanied by the Warranty certificate and the purchase invoice. It is clarified that the Buyer may not return the Defective Product unless such return was coordinated and approved by Amiad in advance.
6. Amiad's obligation under this Warranty shall be limited to, at Amiad's option, the repair or exchange, free of charge, of the product or any part which may prove defective under normal use and service during the Warranty Period. The provision of a repair or replacement of a product during the Warranty Period will result in an extension of the Warranty Period by an additional period of 12 months, provided that the total accumulated Warranty Period shall in any event be no more than 18 months from the date upon which the products were delivered.
7. This Warranty is valid on the condition that the products are installed according to Amiad's instructions as expressed in Amiad's instruction manuals and according to the technical limitations as stipulated in Amiad's literature or as stated by a representative of Amiad.
8. This Warranty will not apply to damaged or defective products resulting from or related to:
   (i) Fire, flood, power surges or failures or any other catastrophe and/or unforeseen occurrence, such as but not limited to those for which the Buyer is customarily insured for, or any force majeure events;
   (ii) Fault, abuse or negligence of the Buyer;
   (iii) Intake water not meeting the agreed standards, as set forth in a written document, approved by Amiad, or improper storage;
   (iv) Improper or unauthorized use of the product or related parts by the Buyer, including Buyer’s failure to operate the product in conformity with the recommendations and instructions of Amiad, as set forth in Amiad's manuals and other written materials, the operation of the product other than by a trained and qualified operator, or improper installation of the product by a third party not authorized by Amiad;
   (v) Performance by the Buyer of maintenance or operation other than in conformity with the recommendations and instructions of Amiad, or other than in accordance with procedures defined in the literature supplied for products (including the timely replacement of requisite parts), and for services provided other than by a trained and qualified advanced operator; or
   (vi) Any alteration, modification, foreign attachment to or repair of the products, other than by Amiad or its authorized technical representatives.
9. In no event shall Amiad be liable to the Buyer or any third party for any damages to property, or for any intangible or economic loss, including loss of profits, loss of customers or damage to reputation, for any damages, including indirect, special, consequential damages, or punitive damage arising out of or in connection with this Warranty, or arising out of or in connection with the product's performance or failure to perform, even if it has been advised of the possibility of such damages.
10. Amiad will be excused for failure to perform or for delay in performance hereunder if such failure or delay is due to causes beyond its reasonable control or force majeure preventing or hindering performance.
11. This Warranty set forth herein is the only contractual warranty given by Amiad and is provided in lieu of any other warranties created by any documentation, packaging or otherwise.
12. Amiad makes no warranty whatsoever in respect to accessories or parts not supplied by Amiad. In the event that Amiad is required to correct a Defective Product or product not covered by this Warranty, it will do so solely in consideration for additional fees.
13. The parties will actively endeavour to amicably settle any dispute arising between them. In the event that the parties are unable to reach an equitable settlement of such dispute, any claim or lawsuit related to the Warranty, its validity execution, its performance be brought before only the courts of Tel-Aviv, Israel. Israeli law will govern the Warranty, to the exclusion of any conflict of law rules.

CE

Manufacturer

Amiad Water Systems Ltd. D.N. Galil Elyon 1, 1233500, Israel.
Tel: +972 4690 9500 | Fax: +972 48141159 | Email: info@amiad.com

European Authorised Representative for CE

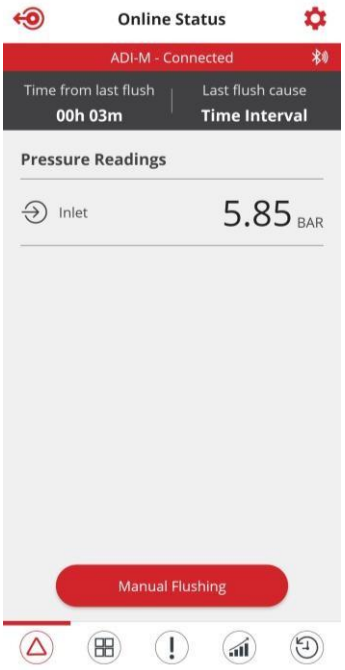
Obelis s.a. Bd Général Wahis 53, 1030 Brussels, Belgium.
Tel: +(32) 2732 5954 | Fax: +(32) 27326003 | Email: mail@obelis.net

EU Declaration of Conformity https://amiad.com/list-certificates/

www.amiad.com

AMIAD Water Systems Ltd.

ADI-M: Smartphone Operated Controller for Automatic self-cleaning filters



Installation, Operation and Maintenance Instructions

Amiad Water Systems Ltd.

ADI-M –Smartphone Operated Controller for Maverick™ filter.

Amiad's ADI-M is a smartphone operated controller for automatic self-cleaning filter that is available as an integrated device for controlling the Maverick™ filter.

The ADI-M system consists of two major components: The ADI-M Controller and the ADI-BLE Mobile Application.

The ADI-M is based on the vast experience of Amiad with advanced controllers

Amiad Water Systems Ltd. D.N. Galil Elyon 1, 1233500, Israel Tel: 972 4 690 9500 | Fax: 972 4 814 1159 Email: info@amiad.com

Contents

Safety First

General Safety Instructions

- The manufacturer's filtration products always operate as components in a larger system. System designers, installers and operators must comply with all relevant safety standards.
- Prior to installation, operation, maintenance and/or any other type of action carried out on the controller, carefully read these installation and operation instructions.
- During installation, operation and/or maintenance of the controller all conventional safety instructions must be observed in order to avoid danger to the workers, the public and/or to property in the vicinity.
- The system is for use for non-hazardous liquids only!
- Please note: The filter controlled by the controller enters the flushing mode automatically without any prior warning.
- No change or modification to the equipment is permitted without written notification given by the manufacturer or by its representative(s) on the manufacturer's behalf.
- Always observe standard safety instructions and good engineering practices whilst working in the filter's vicinity.
- Use the controller only for its intended use as designed by the manufacturer only. Any misuse of the controller may lead to damage and may affect your warranty coverage. Consult with the manufacturer prior to any non-standard use of this equipment.
- Do not carry out system cleaning and/or maintenance in an explosive atmosphere.

Safety Instructions relate to batteries

To ensure optimal performance and safety, please follow these guidelines ⚠ :

- The ADI-M uses 4 AA Alkaline batteries. Please use only alkaline batteries AA size for best performance and longevity.
- Polarity: Insert batteries with the correct polarity (+/-) as indicated in the battery compartment.
- Do not mix old and new batteries.
- Replacement: Replace all batteries at the same time when power is low to avoid leakage or damage.
- Remove batteries if the device will not be used for an extended period to prevent leakage (few months).
- Do not expose batteries to excessive heat, fire, or water.
- Dispose of used batteries according to local regulations. Do not incinerate or throw into household waste.
- If battery leakage occurs, avoid contact with skin and eyes. Clean the compartment with a dry cloth and replace with new batteries.

Installation

- Install the controller according to the detailed installation instructions provided in this manual or in the Quick Guide provided with the filter or controller.
- Make sure to leave enough side and top clearance to enable easy access for safe maintenance operations.
- Make sure to have suitable lighting at the filter's location to enable good visibility and safe maintenance.
- Arrange suitable platforms and safety barriers to enable easy and safe access to the controller without needing to climb on pipes and other equipment. Verify that any platform, barrier, ladder or other such equipment is built, installed and used in accordance with the relevant local authorized standards.
- Use only appropriate standard tools and equipment operated by qualified operators when installing, operating and maintaining the controller.
- When installation is required in hazardous environment sites, underground or high above ground, make sure that the site design and the auxiliary equipment are appropriate and that installation procedures are carried out in accordance with the relevant standards and regulations.
- Ensure walking areas around the installation are slip resistant when wet.
- The ADI-M unit (as part of the filter) intended for operation outdoors and sometimes n wet locations

Shipment and transporting

- Shipping and transporting the controller must be done in a safe and stable manner and in accordance with the relevant standards and regulations.

Disposal instructions

- Proper disposal of batteries is essential to prevent environmental contamination and ensure compliance with legal requirements. Please refer to your local guidelines for specific disposal procedures.
- When your backflush controller reaches the end of its useful life, you must follow the local disposal guidelines to ensure safe and responsible disposal.

Initial operation of the ADI-M Controller:

Open the cover of the ADI-M Controller by pulling it and insert four alkaline 1.5V AA batteries or remove battery isolation slip (in case new batteries are already installed). The ADI-M Controller starts operating according to its pre-defined default flushing program.

The ADI- BLE Mobile Application

Downloading the Mobile Application:

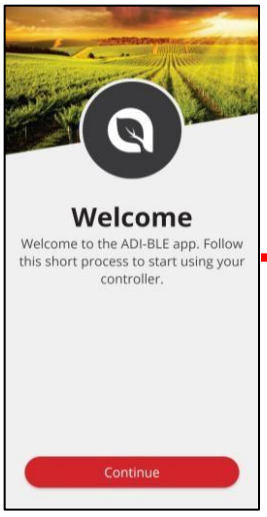
The free **ADI-BLE** application by Amiad Water Systems is available for download on Google Play or the App Store.
Scan QR code to download the mobile app:

Google Play:

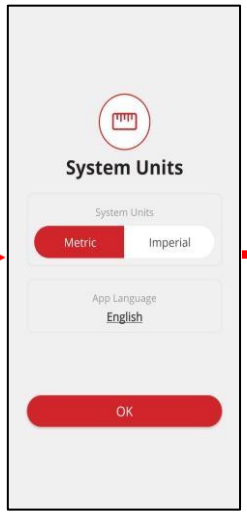
Apple Store:

Setup and registration of the ADI-BLE mobile app:

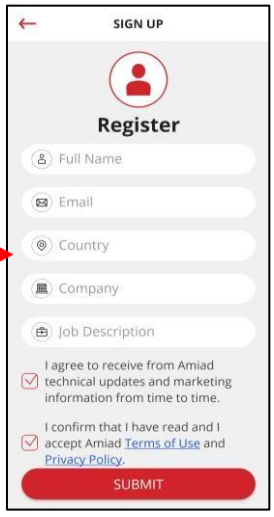
If you possess an existing ADI-X or ADI-P account, kindly utilize the same username and password rather than registering for a new one.



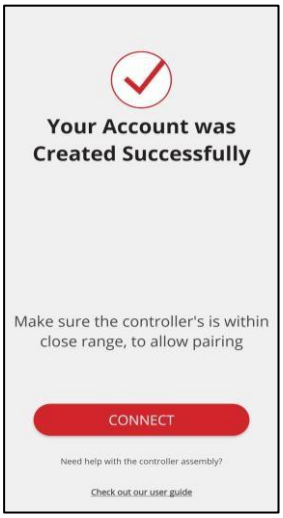
Welcome!
Click “continue”.



Select System units and click “OK”.

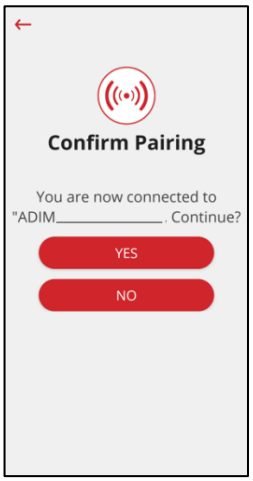


Complete your details and click “Submit”

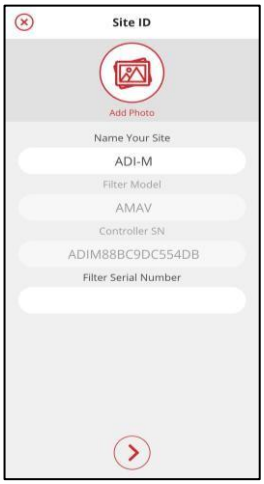


Registration is done.
Click CONNECT to complete.

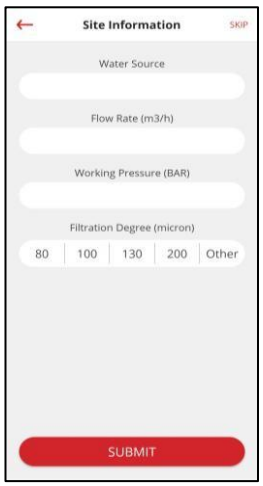
Scan for the ADI-Controller



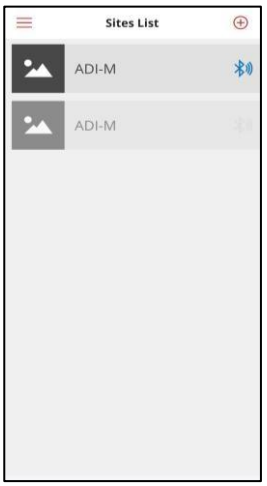
Confirm pairing, press "Yes"



Complete the SITE ID form

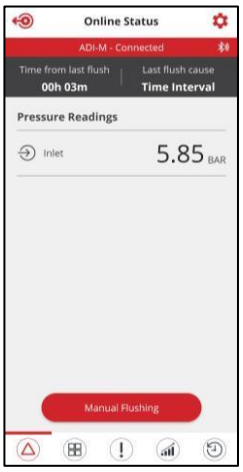


Enter the SITE INFO details (optional). Once done click SUBMIT



Select the active controller from the SITE LIST, marked by the active Bluetooth® icon.

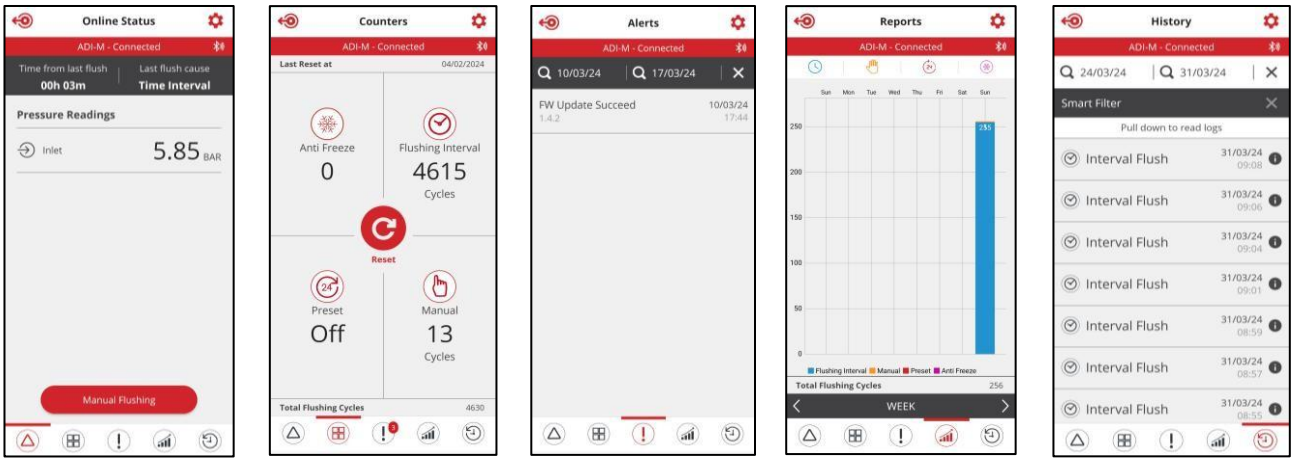
The ONLINE STATUS screen appears and relevant data regarding your filter's performance can be viewed.



Getting to know the ADI-BLE Application:

Take a few moments to familiarize yourself with the ADI-BLE mobile application interface:

Once running and controlling the filter, the application has 5 main screens. Scroll through these screens by sliding to the right or to the left.



You may also reach the desired screen by clicking on the designated icons that appear at the bottom of the screen.

Screens Details

The Online Status screen:

The upper red line	Displays the name of the currently connected controller and the communication status.
Time from last flush	The time since the end of the last flush cycle.
Last flush cause	The trigger that initiated the last flush.
Pressures - Inlet	The current reading of the filter's inlet pressure.
Manual Flushing	Press this icon to start a manual flush cycle.

The Counters screen:

The upper red line	Displays the name of the currently connected controller and the communication status.
Last reset at:	The date of the last resetting of the counters.
Anti-Freeze Cycles	The number of flush cycles started due to low temperature.
Interval Cycles	The number of flush cycles started due to the time intervals program. Also count the Antifreeze Protection Intervals Flushes
Preset	The number of flush cycles started due to the preset daily start time and the current status of this program.
Manual Cycles	The number of flush cycles started due to a manual start command issued by the user.
Total Flushing Cycles	The total number of flush cycles started for any reason.
Reset Button	Press this button to reset the counters to zero.

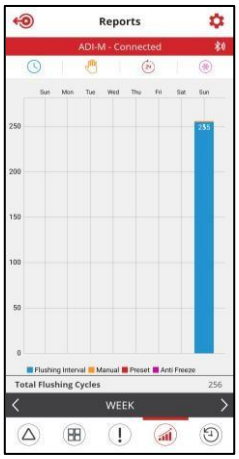
Alerts screen:

The upper red line	Displays the name of the currently connected controller and the communication status.
The second line	Enables sorting alerts between two dates and resetting an alert.
The alerts list (see below)	Display the alert messages according to their occurrence time and date.

Alarms and faults list:

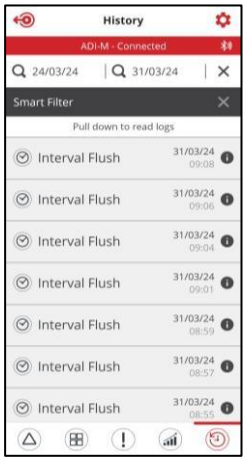
Alert	Possible cause	Recommended Action
Low battery	Low battery voltage	Replace all 4 controller batteries
Low battery pause	Controller paused due to low battery voltage	Replace all 4 controller batteries
DFU failed	Firmware update fail	Validate mobile cellular reception and try again
Out of range app connection	Controller out of range during connection session	Get closer to the controller with the smartphone (within Bluetooth® range)
Sensor pressure read failed	The sensor failed to read Inlet pressure (0)	confirm tube proper connection If continues - contact support
Capacitor charge start failed	Unable to charge capacitor	Contact support
Load capacitor timeout	Capacitor charge timeout	Check battery voltage level, contact support
High upstream pressure	The inlet pressure is greater than maximum allowed pressure for the filter	Adjust the water system inlet pressure
Anti-Freeze Active	Freezing Protection start, as a result of Low Temperature Threshold	
Anti-Freeze Exit	Stop Freezing Protection procedure	

Reports screen:



The upper red line	Displays the name of the currently connected controller and the communication status.
The second line	Displays icons of the different flush types. Select the desired icons to be displayed on the chart.
The chart window	Displays the number of flush cycles according to the selected icons.
Total Flushing Cycles	The total number of flush cycles currently displayed in the chart window.
The lower black line	Enables the user to select the chart's time span (day, week, month).

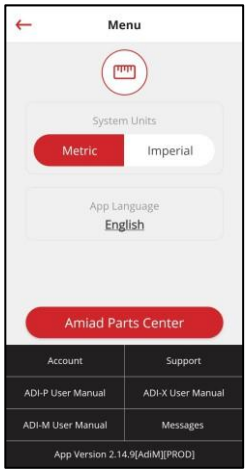
History screen:



The upper red line	Displays the name of the currently connected controller and the communication status.
The second line	Enables sorting events between two dates and deleting an event.
The black line	Enables filtering events according to the four flush types (Interval, Manual, Preset, Anti Freeze).
The events list	Display the events messages according to their occurring time and date.

The Menu screens:

Enter the menu screens by tapping on the Menu icon in the upper left corner of the SITE LIST screen:



System Units	Select the system engineering units: Metric or Imperial.
Language	Select the application user interface language: English, Spanish, French, German, Hebrew, Italian, Portuguese, Russian, Turkish and Chinese.
Part center	A quick link for Amiad parts center website
Account	Displays the registration details of the system: User name, User e-mail, User country, User company and User job description.
Support	Contact US screen, when support is required
User Manual	This screen shows the all user manuals for three controllers.
Messages	Messages from the Amiad system
App Version	Displays the current version of the ADI-M Application.

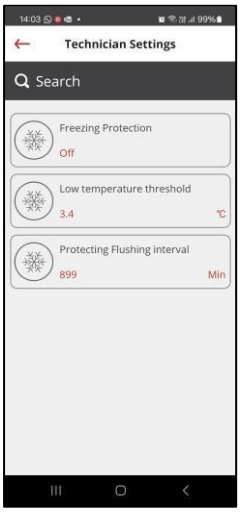
The Settings screens:

Enter the settings screen by tapping on the 'Settings' icon in the upper right corner of any of the 5 main screens:

The upper red line	Displays the name of the currently connected controller and the communication status.
Controller State	Displays the current controller state and allows the user to switch the controller ON and OFF
Flushing Interval	Allows the user to set the time intervals for flushing and enable or disable the flushing according to time intervals. The recommended setting is displayed at the bottom of the screen.
Daily Preset Flush	Allows the user to set specific flushing start times. Start time can be set as several days a week with or without repetitions.
Flush Time	Allows the user to set the duration of the flush operation. The recommended setting is displayed at the bottom of the screen. Can be manual setting or automatic setting per the inlet pressure
Battery	Displays the current capacity level of the controller's batteries.
ID	Enables the user to set the site's picture, name and ID parameters such as: controller's serial number and filter serial number. The second screen allows the user to select the type of water source, flow-rate, the working pressure and the filtration degree of the filter. Press SUBMIT to submit the data.
Technician Settings	See the following table.
About	Displays the current device ID, App version, Firmware version, Hardware version, Bootloader version, controller installation date. If updated firmware is available this screen prompts the user to update the system by pressing the Update Now button.

Technician Settings section:

This section of the application contains the system's basic and fundamental settings. Do not change any of these settings if you are not totally familiar with the specific filtration system, filters and controller. Incorrect settings may cause the system to become non-operational.
Access to the Technician Settings screens requires a password: 1234.



Freezing Protection	Freezing Protection - This function is to prevent the filter to freeze in low temperature while it connected to water source. Default: Enable
Low Temperature Threshold	Freezing Protection - Temperature setpoint to start filter flushing. Default: 4°c
Protecting Flushing Interval	Freezing Protection - Flushing Interval while freezing protection Is activated. Default: 60 min

Important note: make sure to click on the V icon after changing any of the above technician settings**.**

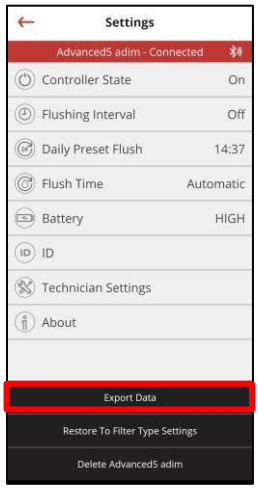
Additional Settings screens:

Export Data	This screen allows the user to export the controller's data (as an Excel file).
Restore to Filter Type Settings	Allows the user to reset the controller's data and restore the default parameters.
Delete ADI-M	Allows the user to delete a site from the smartphone.

Download and Export Reports –

In addition to the on-screen reports, the ADI-M is capable of logging, storing, downloading, and exporting status and operation data through the user's smartphone.

1. Enter the "Export Data" section of the Settings Screen; To make sure that the system exports the latest data, refresh the screen (slide your finger along the screen from top to bottom).



2. Depending on the general communication applications installed on your smartphone, the ADI-BLE application displays the various options for sending reports.
3. Select the preferred application, the recipient and send the reports.
4. ADI-M sends 5 reports in CVS file format (Excel): *system-id*, *parameters-setup*, *flush-events*, *alarm-events* and *params-setup-audit*.

- For further assistance, please contact us at ADI-M@amiad.com

Additional features :

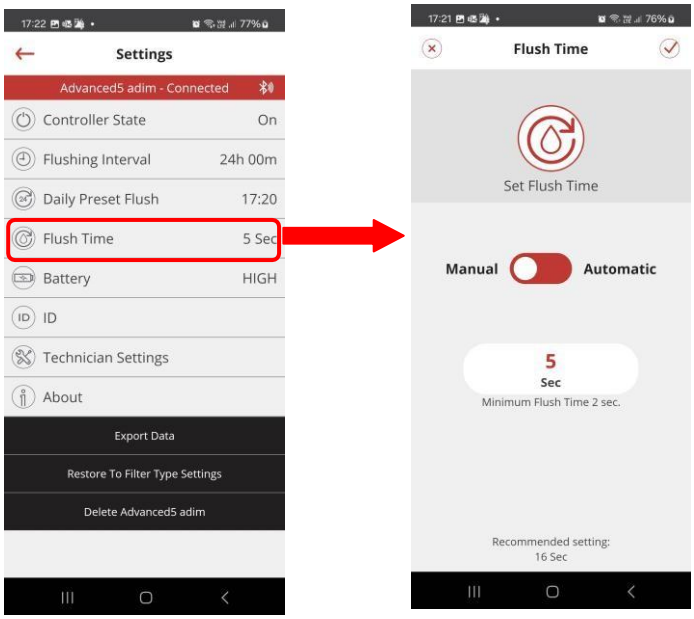
Initiating Flushing Duration

In the ADI-M controller, you have the option to control the flushing process. There are two modes available: Automatic and Manual.

1. **Automatic Mode**: The flushing duration is determined based on the inlet pressure- **Default recommended**.
2. **Manual Mode**: You can configure the flushing duration according to your preference.

Steps to Set the Flushing Duration:

1. Open the ADI-Ble App and locate your controller.
2. Navigate to the **Settings** menu.
3. Select **Flush Time**.
4. Choose between **Manual** or **Automatic** mode.
5. If you select **Manual**, adjust the flushing duration to your desired setting.

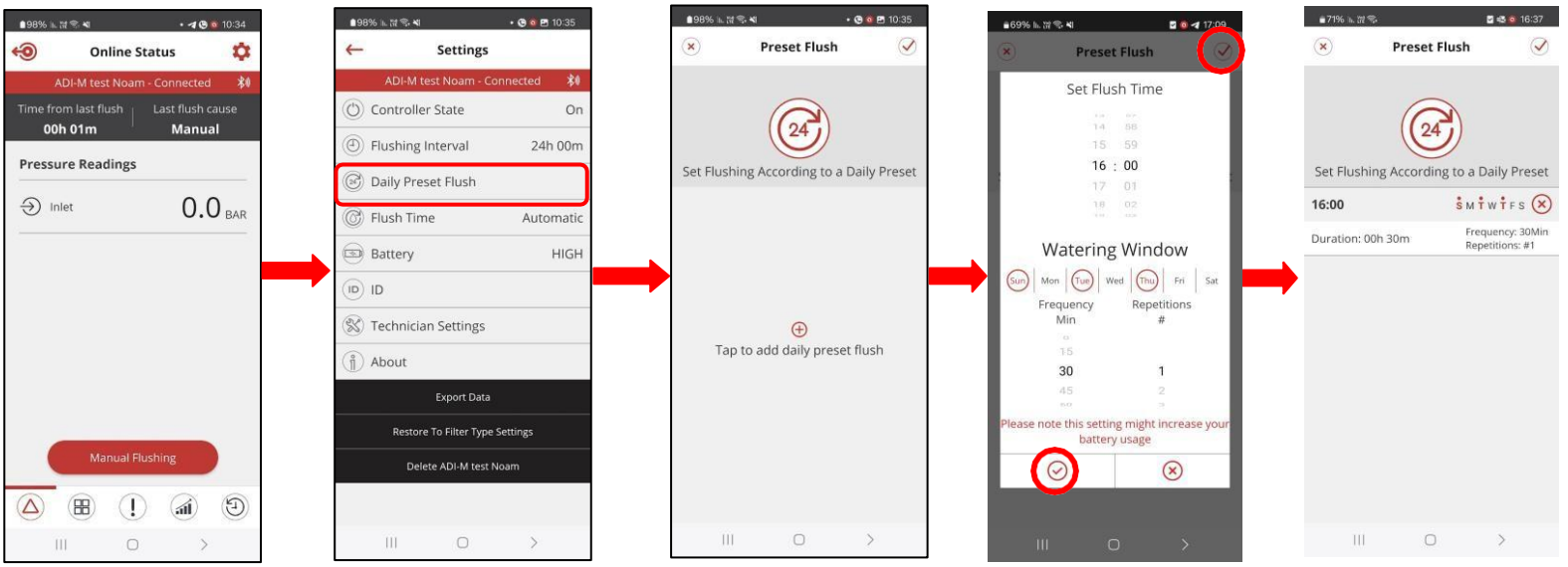


‘Watering window’

The watering window feature enables you to set your watering window and days you would like.
This functionality offers greater flexibility and enhanced control over your filtration system.

Steps to set the **‘Watering Window’:**

1. **Open** the ADI-Ble App and locate your controller.
2. Navigate to the **Settings** menu.
3. **Select** Daily Preset Flush
4. **Tap** the + button to start configuring your preference
5. **Set** your time and days you would like to
6. **Save** your changes by clicking twice on the √



Troubleshooting ADI-M

Controller/Hardware issues

Problem	Cause	Check	Recommended action
The controller fails to initiate flushing.	Empty or low battery.	Examine the battery status.	Replace batteries.
Valve Issues (Open/Close Problems).	Faulty flushing valve.	Examine the valve for faults.	Service the valve or replace if needed
Controller does not work at all.	Improper battery insertion or connection	Verify battery placement and connections. Check battery orientation	Reinsert battery correctly. Ensure secure connections.
	Battery damage or age	Inspect battery for damage or age.	Replace damaged/old battery with a compatible one. High quality or industrial grade battery. Our recommendation is to replace the batteries once a year
Firmware Update Failed.	The latest Firmware version has not been downloaded to the mobile device	Check in the 'About' section that the last firmware version has been downloaded	In the ADI-BLE, go to Settings >> About >> check 'Last FOTA Downloaded' date.
	Bluetooth interruption.	Verify Bluetooth connection. Ensure mobile device is close to the controller (few meters) and not disturbed.	Retry firmware update while ensuring constant Bluetooth connection.

Mobile application / User interface issues

Problem	Cause	Check	Recommended action
Connection Issues.	Bluetooth disabled. Bluetooth out of range.	Ensure Bluetooth range. Move closer to the controller to establish a Bluetooth connection	Enable Bluetooth on mobile device. Restart device - reinsert one battery.
	Mobile app Malfunction.	Reset mobile app.	Exit and enter the mobile app. Reinstall app - unload and redownload the mobile app.
	Another user is connected to this controller.	Check that no one else is connected to the controller.	Reset device (disconnect power/re insert batteries) or disconnect other. User.
	Outdated mobile device operating system.		Update mobile device operating system version.
I cannot see history in mobile App	Known issues in older versions	Check for the latest ADI-BLE version on Apple store/Google store. Check for FW version to be 1.4.16 or newer	Update controller's firmware if required

Specifications Table

Item	Description		Remarks
Ideal Working Pressure	0-10 bar	0-150 psi	
Burst pressure (Peak)	20 bar	300 psi	
Power	Internal	4x1.5V AA batteries	
Temperature range	5°C to 55°C	41°F to 131°F	Aligned to the filter temperature range
Pressure sensor	Internal		
IP Rating	IP68		Tested in water depth 1.1 meter for 1 hour
User Interface	Via Smartphone Application		Android and iOS
Filter models	Maverick™		
Standards	FCC 47CFR part 15: 2017, subpart B, Class B ICES-003: 2016 Issue 6, Class b AS/NZS CISPAR 32 :2015 Class B EN 61326-1: 2013, basic immunity requirements, Class B JEC 61010-1		

FCC Radio frequency interference statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

☐ Reorient or relocate the receiving ADI-M controller or mobile device running the ADI-BLE App.

☐ Increase the separation between the equipment and receiver.

☐ Consult the dealer or an experienced radio/TV technician for help.

Amiad Water Systems is not responsible for any radio or communication interference caused by using other than specified or recommended battery or by unauthorized changes or modifications to this equipment. Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and

2. This device must accept any interference received, including interference that may cause undesired operation. "

The FCCID for the ADI-M is **2BOTL-ADI-M**

Amiad Limited Warranty

1. This certificate applies to Amiad Water Systems Ltd. ("**Amiad**") products purchased by you (the "**Buyer**") from Amiad unless specifically agreed otherwise in writing by Amiad. This Warranty extends only to the original purchaser, and is not transferable to anyone who subsequently purchases, leases, or otherwise obtains the product from the original purchaser.
2. Amiad hereby warrants that the products are and will be free from defects in material and workmanship under normal use and service. Amiad warrants that it will correct manufacturing defects in the products, in accordance with the conditions set out in this Warranty.
3. This Warranty is enforceable for a period of 12 months after the date upon which the products were delivered (the "**Warranty Period**").
4. In the event that during the Warranty Period the Buyer discovers a defect in material and/or workmanship in any product or part (the "**Defective Product**"), it shall submit a written complaint to Amiad using Amiad's standard Buyer Complaint Form. For the receipt of the Buyer Complaint Form, the submission of the complaint or any questions please contact your service representative.
5. Upon written demand by Amiad the Buyer shall return the Defective Product - or a sample thereof - to Amiad, at Amiad's cost. If the Buyer ships any such Defective Product, Amiad suggests the Buyer package it securely and insure it for value, as Amiad assumes no liability for any loss or damage occurring during shipment. Provided however that in the event Amiad determines that this Warranty does not apply to such product, Buyer shall promptly reimburse Amiad for such cost (including freight and customs). Any returned product or part must be accompanied by the Warranty certificate and the purchase invoice. It is clarified that the Buyer may not return the Defective Product unless such return was coordinated and approved by Amiad in advance.
6. Amiad's obligation under this Warranty shall be limited to, at Amiad's option, the repair or exchange, free of charge, of the product or any part which may prove defective under normal use and service during the Warranty Period. The provision of a repair or replacement of a product during the Warranty Period will result in an extension of the Warranty Period by an additional period of 12 months, provided that the total accumulated Warranty Period shall in any event be no more than 18 months from the date upon which the products were delivered.
7. This Warranty is valid on the condition that the products are installed according to Amiad's instructions as expressed in Amiad's instruction manuals and according to the technical limitations as stipulated in Amiad's literature or as stated by a representative of Amiad.
8. This Warranty will not apply to damaged or defective products resulting from or related to:
   (i) Fire, flood, power surges or failures or any other catastrophe and/or unforeseen occurrence, such as but not limited to those for which the Buyer is customarily insured for, or any force majeure events;
   (ii) Fault, abuse or negligence of the Buyer;
   (iii) Intake water not meeting the agreed standards, as set forth in a written document, approved by Amiad, or improper storage;
   (iv) Improper or unauthorized use of the product or related parts by the Buyer, including Buyer's failure to operate the product in conformity with the recommendations and instructions of Amiad, as set forth in Amiad's manuals and other written materials, the operation of the product other than by a trained and qualified operator, or improper installation of the product by a third party not authorized by Amiad;
   (v) Performance by the Buyer of maintenance or operation other than in conformity with the recommendations and instructions of Amiad, or other than in accordance with procedures defined in the literature supplied for products (including the timely replacement of requisite parts), and for services provided other than by a trained and qualified advanced operator; or
   (vi) Any alteration, modification, foreign attachment to or repair of the products, other than by Amiad or its authorized technical representatives.
9. In no event shall Amiad be liable to the Buyer or any third party for any damages to property, or for any intangible or economic loss, including loss of profits, loss of customers or damage to reputation, for any damages, including indirect, special, consequential damages, or punitive damage arising out of or in connection with this Warranty, or arising out of or in connection with the product's performance or failure to perform, even if it has been advised of the possibility of such damages.
10. Amiad will be excused for failure to perform or for delay in performance hereunder if such failure or delay is due to causes beyond its reasonable control or force majeure preventing or hindering performance.
11. This Warranty set forth herein is the only contractual warranty given by Amiad and is provided in lieu of any other warranties created by any documentation, packaging or otherwise.
12. Amiad makes no warranty whatsoever in respect to accessories or parts not supplied by Amiad. In the event that Amiad is required to correct a Defective Product or product not covered by this Warranty, it will do so solely in consideration for additional fees.

13. The parties will actively endeavor to amicably settle any dispute arising between them. In the event that the parties are unable to reach an equitable settlement of such dispute, any claim or lawsuit related to the Warranty, its validity execution, its performance be brought before only the courts of Tel-Aviv, Israel. Israeli law will govern the Warranty, to the exclusion of any conflict of law rules.

CE

Manufacturer

Amiad Water Systems Ltd. D.N. Galil Elyon 1, 1233500, Israel.
Tel: +972 4690 9500 | Fax: +972 48141159 | Email: info@amiad.com

EC REP

European Authorised Representative for CE

Obelis s.a. Bd Général Wahis 53, 1030 Brussels, Belgium.
Tel: +(32) 2732 5954 | Fax: +(32) 27326003 | Email: mail@obelis.net

EU Declaration of Conformity https://www.amiad.com/certificatesDownload.asp