RAIN HARVESTING
by Blue Mountain Co

Electronic Release Valve

Installation and Specification Guide

PRODUCT DETAILS

Take control over how frequently your first flush diverters empty and prevent clogging.

Code	Size	Country
WDRV01	176mm/6.9"	Global

Installation

WHAT'S IN THE BOX?

- Transparent, Rapid Release Exit Funnel
- Electronic Release Valve
- Primary Filter Screen

TOOLS/MATERIALS YOU MAY REQUIRE

- 2 new 1.5 volt AAA batteries

INSTALLATION

1 - Locate your existing first flush diversion chamber and before removing the screw cap with O-ring seal check that your Electronic Release Valve will have sufficient clearance for installation. The valve must also be accessible for maintenance and inspection. For any in-ground first flush installations you may wish to install the Electronic Release Valve in an access pit (e.g. stormwater pit).

2 - Remove the screw cap assembly, including the o-ring. If the diversion chamber is full of water, take care as it empties. Discard these items as they are no longer needed. These components will be replaced by the Electronic Release Valve assembly.

3 - Check the base of the threaded piece on the first flush chamber where the o-ring seals against – clean it of any debris.

4 - Place the ball float back into the chamber, and then insert the Primary Filter into the end of the First Flush chamber. It should fit snuggly into the socket on the end of the pipe.

NOTE: For some end couplings you may be required to trim the spacer from the bottom of the primary filter before inserting.

5 - Install the Transparent Rapid Release Exit Funnel, ensuring the o-ring is seated correctly. It should be screwed up firmly to compress the o-ring.

6 - Attach the Electronic Release Valve by first installing the 25mm x 20mm (1" x 3/4") reducing adaptor and washer to the 25mm (1") thread of the screw cap.

7 -Remove the union from the valve and attach to the reducing adaptor with 20mm (3/4") washer in place.

8 - Attach the valve at the union and orientate dial for easy access.

9 - Remove the waterproof cover from the Electronic Release Valve.

10 - Ensure the reset interval and drain time control knobs are in the “RESET” and “CLOSED” positions. Carefully slide out the battery box and install two new 1.5-volt AAA batteries.

9 - Test the unit by turning the drain time knob to the “OPEN” position. You should hear the sound of the motor within 5 seconds. Turn the drain time knob back to the “CLOSED” position ready for setting.

NOTE: If you do not hear the sound of the motor, check that the batteries are installed correctly.

2h - Ensure that the reset interval and drain time knobs are in the “RESET” and “CLOSED” positions.

NOTE: The first time you program the Electronic Release Valve it will not begin to operate until after a time delay equal to the setting of the reset interval knob you select. The Electronic Release Valve starts to keep time when you set it. It is important that you set the timer at the hour you want it to operate. For example, if you want the Electronic Release Valve to operate at 07:00AM, you must physically set it at 07:00AM.

Set your reset interval and drain time according to the tables below, then replace the waterproof cover. A long reset interval will mean that the first flush diversion chamber empties less frequently, leading to higher rainwater yield. A short reset interval will mean that the first flush diversion chamber empties more frequently, resulting in a lower water yield.

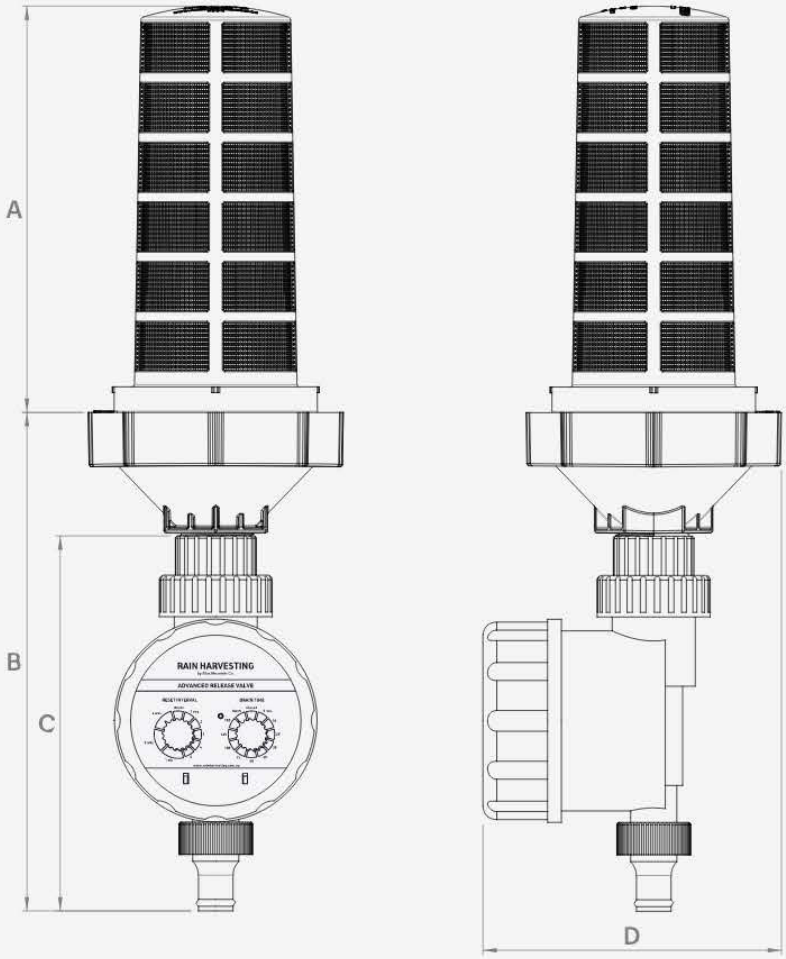
Electronic Release Valve Reset and Drain Time Settings

Suggested Reset Setting	Pollution Level
1 day	Very high
2 days	Very high
3 days	High
4 days	Medium
5 days	Medium
1 week	Low
2 weeks	Very Low
4 weeks	Very Low

Recommended drain time setting	Approx. First Flush Chamber size	
5 minutes	20 litres	5.3 gallons
10	40	10
20	80	20
30	120	30
45	180	50
60	240	60
75	300	80
100	400	100
125	500	130
150	600	160

Product Specifications

Electronic Release Valve



Dimensions & Pipe Fittings

Country	Code	SETUP	A	B	C	D
Global	WDRV01	Regular	176	216	163	129
		Max Chamber	6.9"	8.5"	6.4"	5.1"

All dimensions are in mm unless otherwise stated.

Fitting guide:

F = Female / Socket Fitting (Pipe fits inside)
M = Male / Spigot Gitting (Pipe size, fits into a socket)

Maintenance

It's important to ensure that your Electronic Release Valve outlet remains clear of any debris. If your outlet becomes blocked, the chamber will not empty and the first flush of water will not be diverted when it rains.

To ensure the flow of water out through your Electronic Release Valve's outlet, periodically remove the transparent rapid release exit funnel to check for any build-up of matter (Remove primary filter and clean if required).

Periodically check that the Electronic Release Valve batteries have charge. This is indicated by the flashing light.

To protect your Electronic Release Valve from freezing or "winterising", remove the timer prior to the first frost or freeze and store it indoors until spring. Remember to remove the batteries from the battery compartment.

For best results and minimal maintenance, we recommend installing rain heads such as our Leaf Eater rain heads on all your downpipes to limit the volume and number of leaves and debris that reach your wet system and Electronic Release Valve.

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A common misconception about collecting rainwater is that all you need is a roof, a tank and some rain. This 'tanking' approach cannot always be relied on to deliver the volume – or quality – of water that you require. That is where we can help.

With some thought, your rain harvesting system can provide you with cleaner water and lots of it. Whether you're completely reliant on tank water or wanting to keep the garden green, our simple steps will help you achieve your goal.

The Rain Harvesting approach to rainwater collection involves using tested and proven products to make quality rainwater available for use in and around your property. You don't need much to get started and you will be surprised how easy it is to get the most out of your rainwater system.

How can we help you?

DISCLAIMER This product specification is not a complete guide to product usage. Further information is available from Rain Harvesting Pty Ltd and from the Installation and Operating Instructions. This specification sheet must be read in conjunction with the Installation and Operating Instructions and all applicable statutory requirement. Product specifications may change without notice. © Rain Harvesting Pty Ltd

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For more information or to find out
how we can help, just give us a call on

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Or visit our website at

rainharvesting.com