

RAIN HARVESTING
by Blue Mountain Co

First Flush Diverter Advanced Release Valve



Installation and Specification Guide

PRODUCT DETAILS

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

WDRV01

FEATURES AND BENEFITS

- The Advanced Release Valve's drain allows for efficient draining and minimises the risk of clogging.
- The Advanced Release Valve's electronic auto-release timer allows you to set the frequency at which your first flush water diverter drains.
- Easily retrofits to all Rain Harvesting First Flush Diverters – 90mm, 3", 100mm, 4", post/wall, in-ground and 225mm.

WHAT'S IN THE BOX?

- Transparent, Rapid Release Exit Funnel
- Advanced 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 Advance 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 Advance 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 Advance 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 snugly into the socket on the end of the pipe.
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.

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



6. Attach the Advanced 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 Advanced Release Valve.

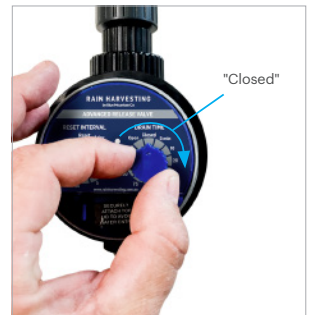


10. Ensure the reset interval and drain time control knobs are in the “RESET” and “CLOSED” positions. Carefully slide out the battery box and install two new 1.5-volt AAA batteries.



11. 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.



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

NOTE: The first time you program the Advance 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 Advance 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 Advance 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.

Advance Release Valve Reset and Drain Time Settings

Suggested Reset Setting	Pollution Level	Recommended drain time setting	Approx. First Flush chamber size		
1 day	Very high	5 minutes	20 litres	5.3	gallons
2 days	Very high	10	40	10	
3 days	High	20	80	20	
4 days	Medium	30	120	30	
5 days	Medium	45	180	50	
1 week	Low	60	240	60	
2 weeks	Very Low	75	300	80	
4 weeks	Very Low	100	400	100	
		125	500	130	
		150	600	160	

MAINTENANCE

It's important to ensure that your Advanced 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.

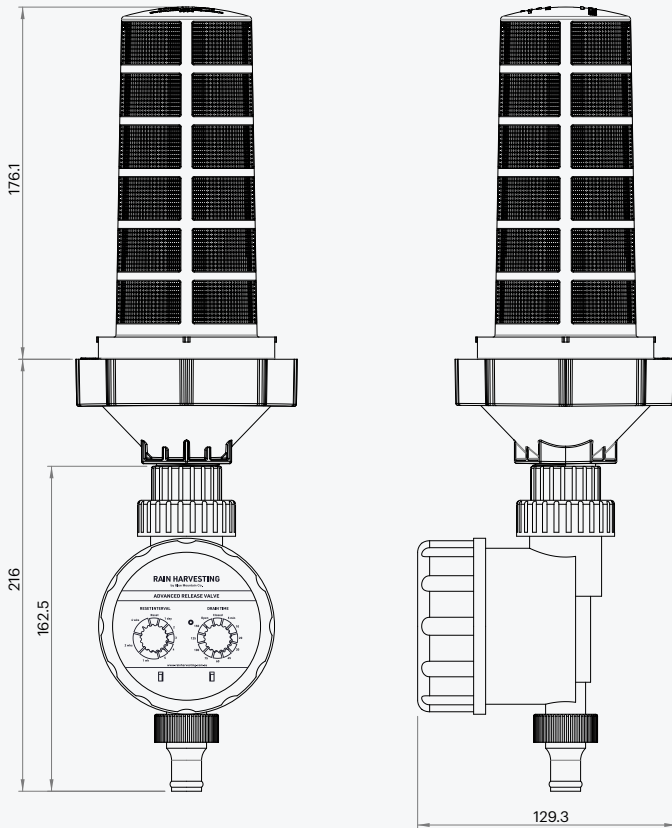
To ensure the flow of water out through your Advanced Release Valve's outlet, periodically remove the transparent rapid release exit funnel to check for any build-up of matter (Remove primary filter and clean if required).

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

To protect your Advanced 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 Advanced Release Valve.

PRODUCT DIMENSIONS



ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED.

DISCLAIMER This product specification is not a complete guide to product usage. Product specifications may change without notice. For more information visit rainharvesting.com.au. Keep this manual handy for future reference. © Rain Harvesting Pty Ltd.

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+61 (0)7 3248 9600

rainharvesting.com.au