

RAIN HARVESTING

by Blue Mountain Co

Wet/Dry Valve



Installation and Specification Guide

PRODUCT DETAILS

Automatically drain your charged lines to improve the water quality in your pipework by reducing the opportunity of anaerobic fermentation.

Code	Size	Country
DRYV01	100mm	Other Countries
DRYV101	4"	USA

Installation

WHAT'S IN THE BOX?

- 100mm (4") Multi-fit Threaded Coupling
- Transparent, Rapid Release Exit Funnel
- Electronic Release Valve
- Primary Filter Screen

TOOLS/MATERIALS YOU MAY REQUIRE

- 100mm pipe
(for extension to valve location)
- 100mm T-junction
- 100mm various fittings
(for extension to valve location)
- Tape Measure
- Marker pen
- Saw
- Solvent weld glue
- Bedding sand or similar
- 2 new 1.5 volt AAA batteries
- Stormwater / rainwater pit

WET-DRY VALVE

1 - Select an installation point for your Wet-Dry valve. This should be at the lowest point in your wet or "charged" system. Your wet-dry valve and pipe work should be installed on a slope to ensure it drains correctly. The valve must also be accessible for maintenance and inspection. This may be achieved by running pipe to a location above ground or installing in an access pit (e.g. stormwater pit).

2 - Using an appropriately sized T-junction, as a template, measure the pipes at your chosen installation point and cut to create space for the T-junction. If the lowest system point is located at the existing 90 degree bend in the pipe that feeds your tank, the T-junction can be used in place of the existing 90 degree bend to direct water vertically to the tank. Otherwise the T-junction can be installed in your existing horizontal pipework. Whichever installation option you choose, ensure all cut edges are clean and smooth.

3 - Install the T-junction using solvent weld glue.

4 - If termination is below ground level, extend outlet of T-junction to nearest stormwater pit and through pit wall. If outlet is to be terminated above ground, extend outlet of the T-junction to the sloping ground where pipe work becomes accessible.

5 - Using solvent weld glue, attach the 100mm-90mm (4"-3") socket reducer to the end of pipe. Ensure the tapered section of the coupling faces up to allow all water to escape when draining.

6 - Install the Primary Filter Screen, Transparent Rapid Release Exit Funnel, and Electronic Release Valve by following the instructions in Figure 1.

Figure 1

Installing and setting up the Electronic Release Valve

1a. Insert the Primary Filter into the end of the pipe. It should fit snugly into the socket on the end of the pipe.



1b. 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.



1c. 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.



1d. Remove the union from the valve and attach to the reducing adaptor with 20mm (3/4") washer in place.



1e. Attach the valve at the union and orientate dial for easy access.



1f. Remove the waterproof cover from the Electronic Release Valve.



1g. 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.



1h. 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.



1i. Ensure that the reset interval and drain time knobs are in the “RESET” and “CLOSED” positions. Set your reset interval and drain time according to the tables in Figure 2, then replace the battery box cover.

NOTE: A long reset interval will mean that the wet system pipe empties less frequently. A short reset interval will mean that the wet system pipe empties more frequently.

Figure 2

Electronic Release Valve Reset and Drain Time Settings

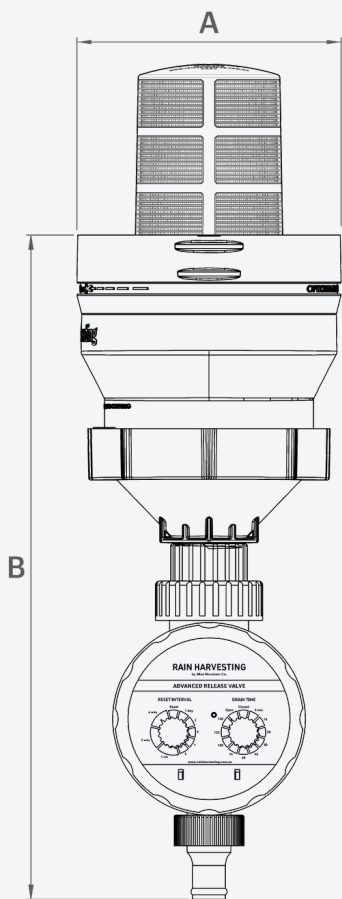
NOTE: The first time you program the Electronic Release Valve it will not begin to operate until after a time delay equal to the setting of the reset interval knob you select. The Electronic Release Valve starts to keep time when you set it. It is important that you set the timer at the hour you want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

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

Wet/Dry Valve



Country	Code	A	B
Other Countries	DRYV01	100 F	304
USA	DRYV101	4" SCH40 / SDR35	11.97"

All dimensions are in mm unless otherwise stated.

Fitting guide:
F = Female / Socket Fitting
M = Male / Spigot Fitting (Pipe size)
IP = In-Pipe Fitting