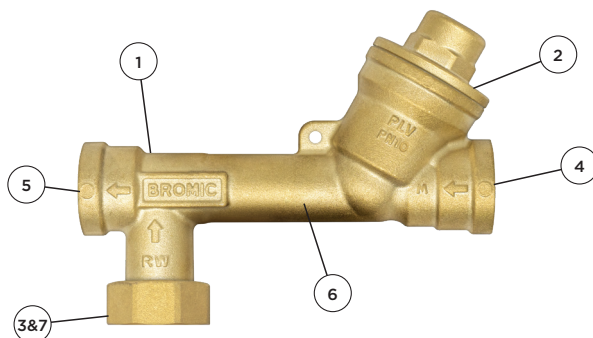


HYDRO SWITCH™ RAIN TO MAINS CHANGEOVER VALVE

INSTRUCTION AND SERVICE MANUAL

Your Product At A Glance

1. Solid Brass Body
2. Pressure Limit Valve Cap
3. Rainwater Inlet (G1" Nut)
4. Mains water Inlet (G3/4")
5. Outlet (G3/4")
6. Dual Check Valve
7. Rubber Washer



SCOPE OF USE

Installation is subject to the requirements of the applicable regulatory authority, the NCC VOL. 3 - Plumbing Code of Australia, associated reference standards as applicable and WMTS-477.

For automatic change over from rainwater to mains water in suitable cold-water applications. Suitable for indoor and outdoor use.

IMPORTANT! ONLY TO BE INSTALLED WITH A SUITABLE PUMP AND MAINS AS PER BELOW:

Operational Water Temperature:	1 - 40°C (Ensure protection from freezing)
Maximum Mains Pressure:	1000kPa
Minimum Pump Pressure:	200kPa
Pump Cut-In Pressure:	200kPa
Nominal Flow Rate:	50 L/min

WHAT DO THE SYMBOLS USED MEAN?

Danger notices and safety information has been clearly marked throughout these instructions. The following symbols are used to draw your attention to these important warnings:



Type and Source of Danger!

Failure to observe this danger notice may cause physical injury or death.

INTRODUCTION



IMPORTANT!

To be installed by a licensed plumber in accordance with AS/NZS 3500.1. Please read the following instructions as failure to install and commission can cause the system to operate incorrectly. This could void the warranty and result in a return call charge by the plumber/installer.

The Waterboy Hydro Switch Rain to Mains Changeover Valve is a simple and effective rainwater/ mains water changeover device for use with above ground pumps or submersible pumps. When teamed with a reliable pump and controller, it truly simplifies rainwater harvesting.

Features:

- Automatically switches from rainwater to mains
- Neat installation to complement the home
- Solid low-lead brass construction
- Simple installation
- No electrical consumption
- Built-in dual check valve for backflow prevention
- Suitable for retrofit or upgrades for other changeover devices

INSTALLATION



WARNING!

Plumbing connections should be carried out by a licensed plumber. Ensure the pump and controller is switched off and disconnected from the power supply before performing any of the following steps. Ensure proper protection against freezing weather.

1. It is recommended that a stop cock or isolation valve is fitted to the changeover valve's rainwater and mains water inlet, which will allow for easy accessibility in the case of maintenance.
2. Mount the changeover valve directly to the outlet of the pump controller using the valve's rainwater inlet (G1" - marked RW) with the supplied rubber washer and a suitable sealant

NOTE: Only tighten to 5 - 10Nm (approx. handtighten plus a 1/4 turn)
Do not over-tighten the G1" connection as it will damage the rubber washer.

3. Connect mains water to the changeover valve's main water inlet (G3/4" - marked M) using a suitable sealant
4. Connect the changeover valve's outlet (G3/4") using a suitable sealant to household

NOTE the Waterboy Hydro Switch Rain to Mains Changeover Valve:

- can be mounted any distance from the pump (given the pump has sufficient head)
- can be mounted outdoors
- can be mounted in any position



IMPORTANT!

It is recommended to fit a filter OR Y-strainer between the rainwater tank and the pump to ensure that clean rainwater is supplied to the pump.

Simplifying Rainwater Harvesting

1. Using water from the tank the Waterboy Hydro Switch Rain to Mains Changeover Valve supplies this to the toilet, washing machine or garden tap.
2. When the tank is empty (or in the case of pump failure), mains water is automatically supplied instead, to ensure a reliable supply of water to the home.
3. The Waterboy Hydro Switch Rain to Mains Changeover Valve works on pressure:

When there is a drop in pressure the pump controller activates the pump, the water pressure from the pump keeps the mains water flow path closed, thus prioritising rainwater to be pumped through the system.

If there is no water in the tank, the pump will run for a short time. The pump controller will detect no water and shut down the pump. As there is no water pressure from the pump, the mains water flow path is open, allowing mains water to be supplied through the system. This is an automated function.

MAINTENANCE



WARNING!

Ensure the pump and pump controller is switched off and disconnected from the power supply before performing any of the following steps

Whilst the Waterboy Hydro Switch Rain to Mains Changeover Valve does not require regular maintenance we do suggest you carry out the following to ensure its most reliable performance:

- Clean gutters regularly and ensure water in the tank is kept clean
- Regularly check and clean inlet filters and strainers
- Occasionally check the tightness of all plumbing hardware and fittings

Servicing and of the Waterboy Hydro Switch Rain to Mains Changeover Valve and, or connected water pump should only be carried out by a qualified technician.

In the case that debris has blocked the inlets of the changeover valve. Disconnect and flush the changeover valve with clean water only to remove any debris.

TROUBLESHOOTING

The Waterboy Hydro Switch Rain to Mains Changeover Valve is not a controller and should be installed with a water pump and pump controller.

Consult the manual supplied with the fitted water pump and controller along with the following:

Symptom	Possible Cause	Remedy
No or low mains water when pump is not in operation	Fitted stop cock or isolation valve is not open	Check isolation valve
	Mains water inlet is blocked by debris	
	External inlet filters or strainers are blocked	Check filters or strainers
No or low rainwater flow delivered from pump	Rainwater tank is empty	Check tank
	No power	Check power supply, plug and cord
	Fitted stop cock or isolation valve is not open	Check isolation valve
	Rainwater inlet is blocked by debris	
	External inlet filters or strainers are blocked	Check filters or strainers
Pump does not shut off	Leak in plumbing (e.g. toilet, tap)	
	Faulty Pump/Pump Controller	

If you are unable to correct a fault yourself, please contact our technical support directly. Please note that improperly conducted repairs will void your warranty and may result in additional expenses.

TECHNICAL DATA

Item number	7575029
Maximum Mains Pressure	1000kPa
Minimum Pump Pressure	200kPa
Recommended Pump Cut-In Pressure	200kPa
Nominal Flow Rate	50 L/min
Maximum Water Temperature	40°C
Minimum Water Temperature	Greater than 1°C (Ensure Protection from Freezing)
Mains Water Inlet	G3/4"
Rainwater Inlet	G1"
Outlet	G3/4"
Warranty	5 Years

