

EZ-VALVE

Electric Waste Valve System

Installation Instructions



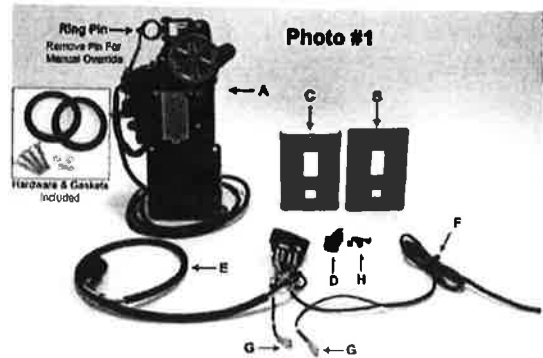
Valterra Products, LLC.
15230 San Fernando Mission Blvd.
Suite 107
Mission Hills, CA 91345
www.valterra.com

EC014-1

Valterra EZ-Valve Instructions

Thank you for choosing the new Valtterra EZ-Valve. Your new valve contains (see photo # 1):

- (A) Valve Assembly (Valve, motor, cable with male connector plug, seals, nuts and bolts)
- (B) Black Water Switch Plate
- (C) Gray Water Switch Plate
- (D) Circuit Breaker
- (E) Female connector plug with black three wire cable and harness connected to control switch
- (F) Black and white lead wires
- (G) Two unconnected circuit breaker wires
- (H) Screws (3)



There are two parts to the installation – the Control Switch and the Valve. Please read both sections of the instructions completely before you begin.

Control Switch Installation

- 1) Choose a location in the control compartment for the electric switch plate that has enough space behind the wall to accommodate the switches and the wiring. If two valves are to be installed, either separately or as a double valve assembly, locations for two switch plates will be required.
- 2) The double valve assemblies will already have a circuit breaker attached to the switch plates - you can proceed to step 3. Depending on the installation, select either the (B) black water valve switch plate or the (C) gray water valve switch plate. Press and lock the circuit breaker (D) into place on the front of the appropriate switch plate. (See photo # 2.)
- 3) Feed the wire harness connected to the control switch through the top opening of the switch plate. (See photo # 3.) With the translucent red bar at the top, push and lock the toggle switch into place in the upright position. (See photo # 4.)

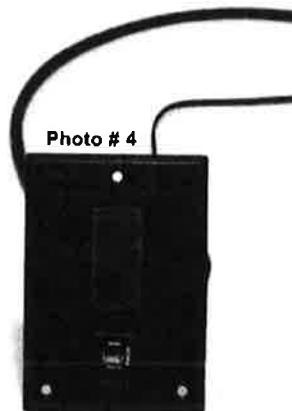
Photo 2



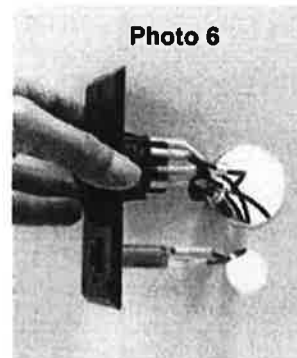
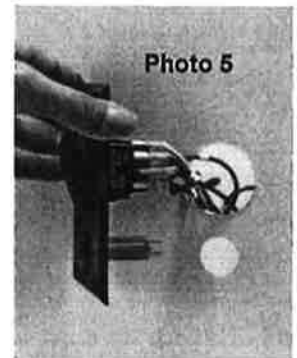
Photo # 3



Photo # 4



- 4) Using the template provided on page 4, drill the switch plate holes indicated for either a single or a double valve installation. For a double valve installation, the holes should not be closer than 4" center to center as indicated on the provided template.
- 5) From the outside wall of the control compartment, feed the female connector plug, **and** cable w/disconnected reset breaker wires (white) through the top 1 3/4" hole. (See photo # 5.)
- 6) Feed the disconnected reset breaker wires back to the outside through the bottom 1" hole. Connect the wires to the corresponding numbered positions on the breaker terminal. (See photo # 6.)
- 7) Position the switch plate over the opening. Using the switch plate as a template, drill three 1/16" holes for the switch plate screws. (See photo # 7.) Secure the switch plate with the provided screws.
- 8) If a second valve is to be installed, follow the same installation steps for the second switch plate and switches. Note – the holes can not be closer than 4" center to center.



- 9) If a second valve is to be installed, follow the same installation steps for the second for the second control switch. Note - the holes can not be closer than 4" center to center.

Valve Installation

- 1) Waste water can flow through the EZ-Valve in either direction. Choose a location for the valve assembly(s) that provide sufficient clearance at the top of the valve mechanism to allow the valve to open completely in the electric mode. Before gluing the valve(s) in place, the clearance can be checked by removing the ring pin from the valve lift arm. Turn the valve handle clockwise 90° to clear the lift arm. Pull the valve handle to the fully open position. There should be an additional 1" clearance beyond the top of the handle. When operating, the valve will extend to an overall length of 15 1/4" when fully opened. This is 3 3/4" longer than the closed overall length of 11 1/2".
- 2) Install the valve assembly(s) by gluing the pipes from the waste tank(s) into the appropriate fittings.
- 3) Support the valve assembly(s) by gluing the pipes from the waste tank(s) into the appropriate fittings.

Continues on next page

Valve Installation Continued

- 4) Connect the male to female wire harness connectors. The locking arms on the male side of the connector should lock onto the female half of the connector. For double valve installations, make sure the switch harness is connected to the appropriate valve harness.
- 5) Connect the white wire to the positive (+) side of the 12 VDC constant power source.
- 6) Connect the black wire to the negative (-) side of the 12 VDC constant power source.
- 7) Secure all excess wire by using "P" clips or tie straps.
- 8) The EZ-Valve system is now ready for operational testing.

Manual Override

If it ever becomes necessary to use the E-Z Valve manual override, remove the ring pin from the valve lift arm. Turn the valve handle 90° clockwise to clear the lift arm. Pull the valve handle to the valve open position.

Valve Specifications

Voltage: 12 Volts DC
AMP Rating: 2.5 AMPS per valve
Valve Size: 3"
Open Cycle Time: 1.3 second
Close Cycle Time: 1.3 seconds
Open / Close Cycle Tested: 6,000 cycles
Valve Length Open: 15 1/4"
Valve Length Closed: 11 1/2"
Flow Direction: Either direction
Operating Temp: 35 – 120 Degrees