Prior to Installing your TOTO®’s EcoPower® Flush Valve, install the items listed below:

- Closet fixture/Urinal fixture
- Drain line
- Water supply line
- Valve Body assembly
- Top cover assembly
- Screw
- Back-up battery Pack
- Tool (Allen wrench)
- Toilet Flush Valve
- Notice wrench
- Owner’s Manual
- Installation Manual
- Vacuum breaker tube (with spud/pint)
- Control stop
- Sweat solder kit (Escutcheon, covering tube, adapter)

1. **Adjustable wrench, Phillips and slotted screwdrivers.**

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5 Installation Procedure

Step 1
For New Installation
Install the control stop using a proper size escutcheon and sweat solder adapter kit if applicable. Thread sealing compounds should be used on male NPT threads only. The distance from center of the control stop to center of the flush valve should fall within 4-1/4” to 5-1/4” (107mm to 133mm).

Note
1. For left water supply, attach the sensor top cover in the opposite direction so that the sensor will be at the front.
2. For retrofit installation, remove the old flush valve after shutting off the control stop.

Step 2
Determine the length of vacuum breaker tube to join the flush valve and fixture spud. Cut the vacuum breaker tube, if required, to the proper length. Assemble the spud nut assembly to the fixture spud. Hand-tighten spud nut to fixture.

Step 3
Prior to inserting the flush valve tailpiece into the control stop, be certain that the O-ring is in the groove at the end of the tailpiece, the locking nut and the snap ring are located as shown. Connect the flush valve with the control stop and the vacuum breaker tube. Care should be taken not to damage the O-ring when inserting the tailpiece into the control stop. If lubrication is needed, wetting the O-ring with water will be sufficient. Align the flush valve and securely tighten fixture spud nut, vacuum breaker tube nut and locking nut with a wrench.

Step 4
Connect the connector of the battery with that of the controller and set it at the proper position as shown below.

Step 5
Connect the connectors of solenoid valve and generator with those of controller.

Step 6
Fasten the sensor top cover on body cover with the supplied screws (use supplied allen wrench).

Step 7
Before the supply water is turned on, be sure all water leaks are eliminated by tightening all the pipe connections. If for any reason it becomes necessary to remove the control stop, be certain the water is shut off at the main supply valve.

Step 8
The flush valves are preset for fixture volume as marked on the valve carton. The valve does not require adjustment for variation in water pressure within its operating range. To set the flush valve for proper operation, open the control stop completely by using the adjusting screw and flush the valve several times. Gradually adjust the control stop closed, using the adjusting screw, so that the rate of water flow into the fixture is not excessive, yet is sufficient to adequately evacuate the waste. The cap for the control stop should be placed after final adjustments have been made. Tighten the cap firmly with a wrench.

6 Test Run
1. Make sure the control stop is open.
2. Sit on the toilet seat. (for Toilet flush valve) Stand within two feet from the front of the flush valve. (for Urinal flush valve)
3. Stay there for 6 seconds or more and then leave the toilet seat or the urinal. The valve will automatically flush.
4. Press the manual flushing button and make sure the valve flushes properly and the sensor red light is on for 2 seconds.
5. Rceheck all the pipe connections for water leaks. If the flush valve is not operating properly following the test run consult the Troubleshooting section of the Owner's Manual.

7 Note to the installer
After the flush valve unit has been installed correctly, please explain to your customer how to use it and tell them to observe the following instructions:
1. Do not put any object in front of the sensor window which could obstruct the sensor, causing it to malfunction.
2. For troubleshooting, consult the Owner's Manual.
If you lack the necessary skills required or have difficulty following the directions for installation, maintenance, repairs, troubleshooting or adjustments, of the product, do not proceed without help from a qualified person to assist you in performing any of these functions.