



AquaSense®
ZER-SM Series
Automatic Battery-Powered
Flush Valve Retrofit Kit
Installation, Operation, Maintenance
and Parts Manual



ZERK-SM

LIMITED WARRANTY

All goods sold hereunder are warranted to be free from defects in material and factory workmanship for a period of three years from the date of purchase. Decorative finishes warranted for one year. We will replace at no costs goods that prove defective provided we are notified in writing of such defect and the goods are returned to us prepaid at Sanford, NC, with evidence that they have been properly maintained and used in accordance with instructions. We shall not be responsible for any labor charges or any loss, injury or damages whatsoever, including incidental or consequential damages. The sole and exclusive remedy shall be limited to the replacement of the defective goods. Before installation and use, the purchaser shall determine the suitability of the product for his intended use and the purchaser assumes all risk and liability whatever in connection therewith. Where permitted by law, the implied warranty of merchantability is expressly excluded. If the products sold hereunder are "consumer products," the implied warranty of merchantability is limited to a period of three years and shall be limited solely to the replacement of the defective goods. All weights stated in our catalogs and lists are approximate and are not guaranteed.

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⚠ ADVERTENCIA: Cáncer y Daño Reproductivo - www.P65Warnings.ca.gov

⚠ AVERTISSEMENT: Cancer et effet nocif sur la reproduction - www.P65Warnings.ca.gov

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Patent zurn.com/patents

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by **ZURN ELKAY** Water Solutions

Specifications

Sensor Range: 12" to 60" (adjustable)

Power Type: Battery powered; 4x C size

Operating Water Pressure: 25 psi [172 kPa] Min (Running); 80 Psi [552 kPa] Max (Static)

Operating Temperature: 35°F to 104°F [2°C to 40°C]

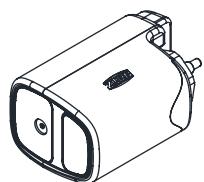
Prior to Installation

- Before installing your retrofit kit, the items listed below should already be installed on-site:
 - Water closet or urinal fixture
 - Fixture carrier
 - Drain line
 - Water supply line
 - Flush Valve
 - Supply Stop

Important Safety Information

- Do not convert or modify this Zurn product. All warranties will be voided.
- All plumbing is to be installed in accordance with applicable codes and regulations.
- Water supply lines must be sized to provide an adequate volume of water for each fixture.
- Flush all water lines prior to making connections.
- Do not use pipe sealant or plumbing grease on any fitting other than the control stop inlet.
- Sensor units should not be located across from each other or in close proximity to highly reflective surfaces.
- Control stop should never be opened to allow flow greater than fixture is capable of evacuating. In the event of valve failure, fixture must be able to handle a continuous flow.

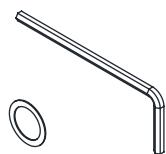
Package Contents



EZ Flush®



EZ Flush Wrench



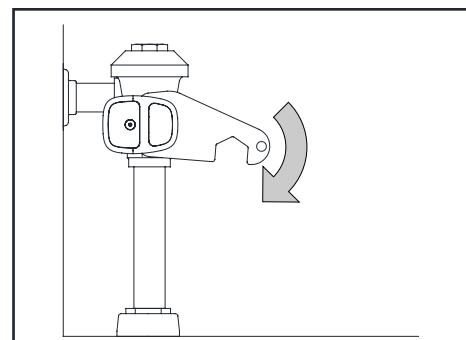
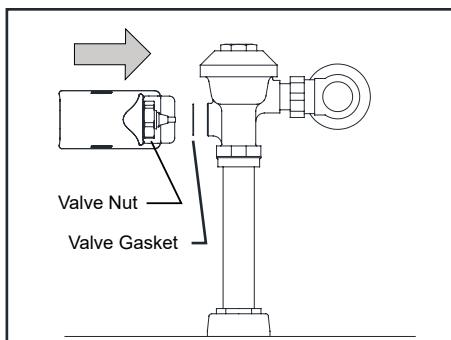
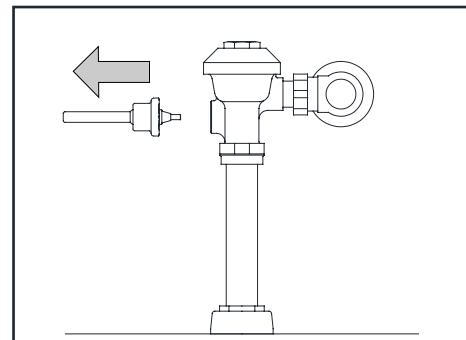
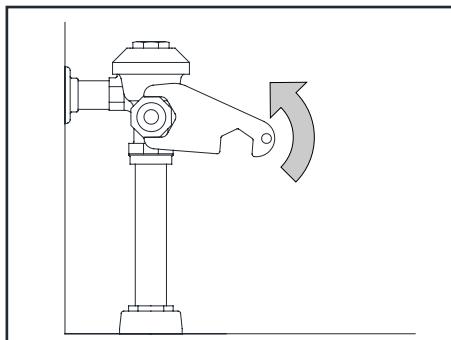
Hex Key and
Valve Gasket

EZ Flush Retrofit Installation

Shut off water supply at stop.

- Shut off water supply at stop.
- Using the supplied wrench, loosen handle nut.
- Remove handle and its valve gasket from flush valve.
Note: A small amount of water may drip from the port.
- Place the supplied valve gasket onto the unit as shown. Use one hand to raise the unit to the handle port of the flush valve and use the other hand to rotate the unit's valve nut to begin engaging the threads of the valve body.
- Use the supplied wrench to tighten the EZ Flush unit securely to the valve body.
- Turn on water at the stop valve.

Note: Save handle in the event you wish to reuse for service of EZ Flush



EZ Flush Activation

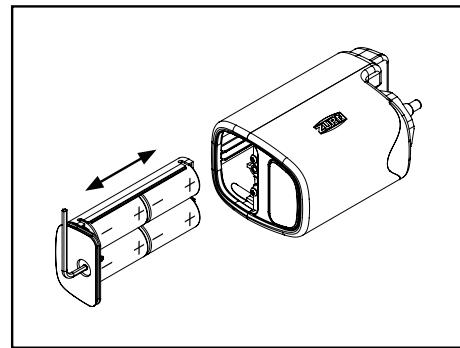
Using supplied hex key, remove battery compartment from the EZ Flush unit.

Load the supplied batteries into the battery tray. Note the battery orientation shown. Reinstall the battery tray into the EZ Flush unit using the hex key. The user LED will blink when the unit becomes powered.

Notes:

Your EZ Flush unit comes preset from the factory. If special circumstances require adjustment of the activation distance, see section of this manual "Adjusting Calibration Distance".

Each EZ Flush comes with a 24-hour flush mode that is disabled by default. To toggle this mode, see the section of this manual entitled "Toggling 24-Hour Flush Mode".

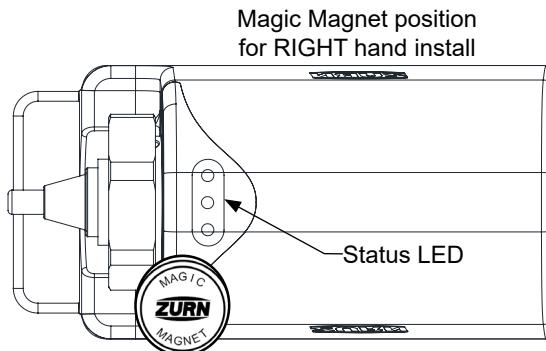
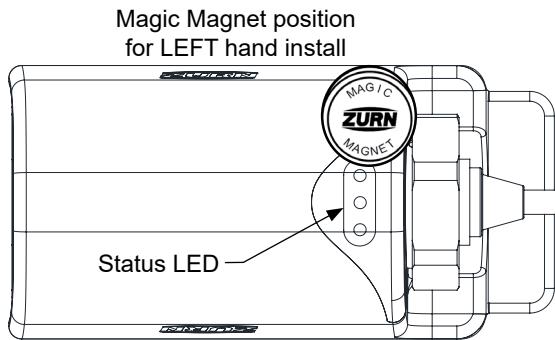


Adjusting Calibration Distance (Using the Magic Magnet)

Each EZ Flush comes calibrated from the factory to work optimally in most restroom environments. In low light or highly reflective environments however, it may be necessary to adjust the calibration distance of an EZ Flush unit. To do this, a Zurn Magic Magnet may be used. To re-calibrate an EZ Flush with a Magic Magnet, follow the procedure below: comes calibrated from the factory. To re-calibrate for a specific environment, follow these steps:

1. Stand at the desired calibration distance:
 - ~28" from the sensor in a water closet application.
 - ~22" from the sensor in a urinal application.
2. Raise the Magic Magnet to the top/bottom (depending on valve orientation - refer to image below) of the unit's lens until the user LED lights up.
3. Hold the Magic Magnet in that position until the user LED begins to blink. Remove the magnet and allow the user LED to blink 10 times while standing in the same position. A quick double-blink signals that the calibration is complete.
4. Test the new calibration distance by walking away from the unit for 5 seconds and returning to the position at which it was calibrated. Watch for the user LED to blink. If the user LED blinks, the calibration distance has been reset successfully.

Note: In water closet applications, it is a good idea to make sure that the new calibration distance does not allow the sensor to see the stall door. To check this, exit the stall and close the stall door for 10 seconds. Open the stall door. If the unit does not flush, the calibration distance is okay. If the unit flushes, you will need to recalibrate to a closer distance.



Optional Accessory
Magic Magnet
P6900-AT-MAG



Toggling 24-Hour Line Flushing Mode (Using the Magic Magnet)

Each EZ Flush comes with a 24-hour line flushing feature that is disabled by default. This feature is intended for low-use applications where trap seal depletion is a concern. To toggle this feature, follow the procedure below:

1. Raise a Magic Magnet to the top/bottom (depending on valve orientation - refer to image on previous page) until the user LED lights up.
2. Lower the magnet so that the user LED turns off.
3. Repeat this turn on / turn off procedure three more times.
4. After the fourth time, the user LED will display a series of rapid blinks. Three blinks signifies that the feature has been toggled on. Six blinks signifies that the feature has been toggled off.

Flush Valve Trouble Shooting Guide

PROBLEM	CAUSE	SOLUTION
User LED continuously blinks every five seconds.	Low battery life.	Replace batteries.
Insufficient flow of water.	Stop Valve improperly adjusted.	Adjust stop valve (open).
Excessive flow of water.	Stop Valve improperly adjusted.	Adjust stop valve (close).
Continuous flow of water.	Debris clogging flush valve's diaphragm.	Replace diaphragm kit (See section titled "Repair Parts").
User LED does not blink when user is present.	Calibration distance is set too short. Confirm by placing hand 6" in front of the sensor and watching for a blink. If the device blinks, the calibration is set too short.	Reset calibration to desired distance (See section titled "Adjusting Calibration Distance").
	Batteries are dead. Confirm by placing hand 6" in front of the sensor and watching for a blink. If the user LED does not blink, the batteries are dead.	Replace batteries.
	Battery Tray electrical connection is faulty	Replace battery tray: PERK6000-BD-SM
	LED Sensor Range Set too far. Confirm by placing hand 6" in front of the sensor and waiting at least 30s. If you see only a double blink in this time frame, the sensor may be ranged too far out (constantly detecting a target).	Reset calibration to desired distance (See section titled "Adjusting Calibration Distance")

