SLOAN.
Water Connects Us®

OPTIMA® SYSTEMS Hardwired Dual-Flush and Single-Flush Side Mount Unit Installation Instructions

EL-700-A
Single-Flush Side Mount

EL-750-A
Dual-Flush Side Mount

LIMITED WARRANTY

Unless otherwise noted, Sloan Valve Company warrants its product, manufactured and sold for commercial or industrial uses, to be free from defects in material and workmanship for a period of three (3) years (one (1) year for special finishes, SF faucets, PWT electronics and 30 days for PWT software) from date of first purchase. During this period, Sloan Valve Company will, at its option, repair, replace, or refund the purchase price of any product which fails to conform with this warranty under normal use and service. This shall be the sole and exclusive remedy under this warranty. Products must be returned to Sloan Valve Company, at customer's cost. No claims will be allowed for labor, transportation or other costs. This warranty extends only to persons or organizations who purchase Sloan Valve Company's products directly from Sloan Valve Company for purpose of resale. This warranty does not cover the life of the batteries.
THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. IN NO EVENT IS SLOAN VALVE COMPANY RESPONSIBLE FOR ANY CONSEQUENTIAL DAMAGES OF ANY MEASURE WHATSOEVER.

!!! IMPORTANT !!!

INSTALL ALL ELECTRICAL WIRING IN ACCORDANCE WITH NATIONAL/LOCAL CODES AND REGULATIONS.

1 - INSTALLATION (FOR EITHER LEFT- OR RIGHT-HAND)

DO NOT REMOVE STICKER FROM SENSOR WINDOW UNTIL STEP 2.

Close the control stop.

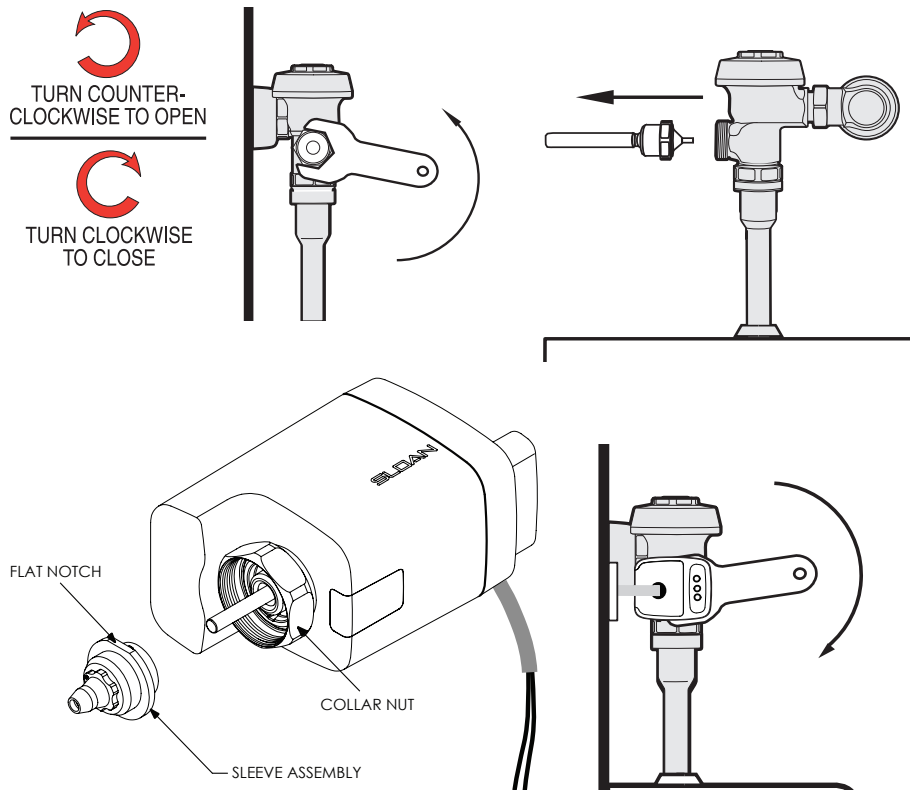Using the supplied collar wrench, remove handle and handle gasket from flushometer, if applicable.

NOTE: On some flushometers with a faulty air vent, or recently flushed valve, be prepared to collect a small amount of water with a rag or sponge placed under the handle.

Place sleeve assembly with flat notch facing upwards into collar nut and attach the Side Mount unit where the handle was removed.

NOTE: Failure to install flat notch correctly can result in damage to the unit.

Tighten collar nut with supplied collar wrench.
Open the control stop.

NOTE: Save the handle in the event you wish to return to manual flushometer.

TURN COUNTER-CLOCKWISE TO OPEN

TURN CLOCKWISE TO CLOSE

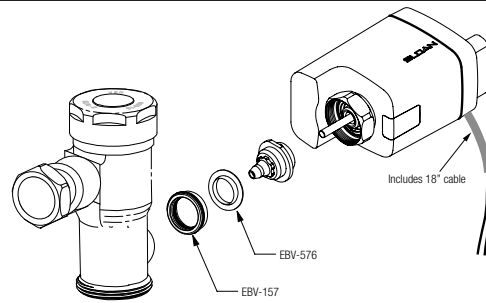FLAT NOTCH

COLLAR NUT

SLEEVE ASSEMBLY

1 - INSTALLATION (FOR EITHER LEFT- OR RIGHT-HAND) - CONTINUED

NOTE: For retrofit installation to Sloan GEM•2 flushometer (-G variation).
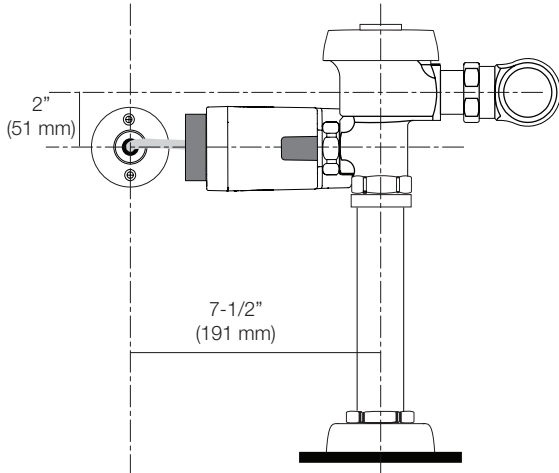
1. Thread EBV-157 adapter onto valve body.

2. Place EBV-576 GEM•2 gasket on top of sleeve assembly.

3. Mount side mount to valve body and tighten collar nut.

NOTE: For retrofit installation to †Zurn flushometer make sure to re-use the †Zurn gasket and place on top of sleeve assembly before mounting to valve. Contact Sloan Technical Support if the †Zurn gasket is not present or if another is required.

Includes 18" cable

EBV-576

EBV-157

2 - ELECTRICAL CONNECTION

1. Suggested mounting location of electrical supply flange.
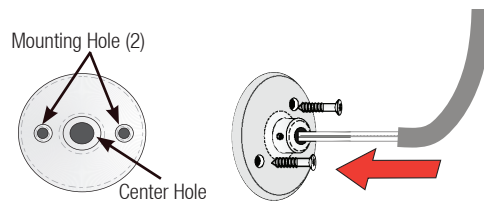
2"
(51 mm)

7-1/2"
(191 mm)

2. Drill two (2) mounting holes into wall and mount flange using the appropriate fasteners for the particular wall type.
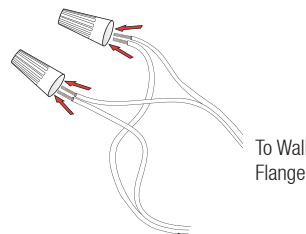
MOUNTING FASTENERS PROVIDED:
- Plastic Wall Anchor-3/16" (5 mm) hole
- Toggle Nut Anchor-1/2" (13 mm) hole

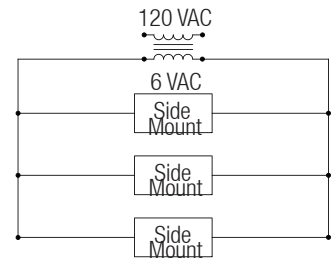**3.** Drill 1/2" (13 mm) center hole. Run cable through center hole in flange.

Mounting Hole (2)

Center Hole

4. Insert wires into wire connectors as shown. Twist wire connectors onto wires.

Wiring Diagram
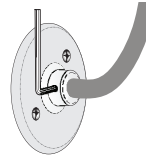
120 VAC

6 VAC

Side Mount

Side Mount

Side Mount

To Wall Flange

To 6 VAC Class 2 Tranformer (Available from Sloan) Transformer Part Nos. EL-386 & EL-451

One EL-386 Transformer serves one (1) OPTIMA flushometer. One EL-451 Transformer serves up to six (6) OPTIMA flushometers.

5. Tighten setscrew against armor sheath, with 1/8" hex wrench.

3 - START-UP ACTIVATION

Turn on transformer power and wait for 10 seconds. Remove sticker from sensor window. The Side Mount unit will "wake up" when sticker is removed from sensor window. Please ensure this is the last step in the installation process and unless the target is a permanent fixture in the sensor's environment (i.e. a wall or stall door) it must be removed from the view of the sensor. There is a three minute delay to calibration to allow the installer to clear from the view of the sensor. The Side Mount unit calibrates to the surrounding environment once sticker is removed (with three minute delay to allow installer to clear from the view of the sensor). Remove all non-permanent articles and step away from the sensor view until the one (1) flush activation verifies calibration is complete. The unit will exhibit an LED flash pattern as follows:

- GREEN and RED LED flash once, GREEN LED flashes 5 times
- 150 seconds of slow GREEN double flashes
- 10 seconds of fast GREEN double flashes
- 12-15 seconds of fast GREEN flashes (calibration)
- 3 slow GREEN LED flashes indicates calibration is done
- Normal Operation with one flush activation

After power off, re-power up will need three (3) minute delay to allow installer to clear from the view of the sensor.

†Zurn® is a registered trademark of Zurco, Inc. Use of "Zurn" is for identification purposes only and does not imply affiliation, endorsement, or association between Sloan and Zurco, Inc.

MODE CHANGE (SINGLE-FLUSH UNITS ONLY)

Units are preset at factory in water closet mode.

To change unit from water closet mode to urinal mode, complete the following within one (1) hour of power up:

Press and hold the True Mechanical Override (TMO) button for 20-30 seconds.

The unit will exhibit an LED flash pattern as follows:

• For approximately the first 10 seconds there will be no LED flashing.
• For approximately 10-20 seconds, both the RED and GREEN LEDs will produce short simultaneous flashes.
• For approximately 20-30 seconds, the GREEN LED will flash.

Release the TMO button during the 20-30 seconds when GREEN LED flashes and remove non-permanent items from view of the sensor. The Side Mount unit will now be in urinal mode* and begin calibration until the one (1) flush activation verifies calibration is complete. See Activation.

To change back to closet mode, press and hold the TMO button for 30-40 seconds. Release when RED and GREEN LEDs produce long simultaneous flashes. The Side Mount unit will now be in closet mode and begin calibration.

*Urinal mode provides a shorter sensor range and 1-2 second flush delay.

SERVICE MODE - DUAL-FLUSH AND SINGLE FLUSH UNITS

Press and hold the True Mechanical Override (BLACK) button for 10-20 seconds.

The unit will exhibit an LED flash pattern as follows:

• For approximately the first 10 seconds there will be no LED flashing.
• For approximately 10-20 seconds, both the RED and GREEN LEDs will produce short simultaneous flashes.

Release the TMO button during the 10-20 seconds when both the RED and GREEN LEDs produce SHORT simultaneous flashes. The unit will now ignore targets for 10 minutes to enable the toilet or urinal to be cleaned or serviced. Unit will resume normal operation after 10 minutes or if either button is pushed. Green button will generate a reduced flush and then resume normal operation, black button will provide a full flush before resuming normal operation.

VAC POWER REQUIREMENTS

VAC Power Requirement: Transformer 6 VAC 0.5 mA per unit
Sloan Transformers:
       EL-386 – 120 VAC/ 6 VAC Plug-in Transformers
       EL-451 – 120 VAC/6 VAC 25 VA Box Style Transformers
NOTE: One (1) Hardwire Flushometer per each EL-386 Transformer and six (6) Hardwire Flushometers per each EL-451 Transformer

TROUBLESHOOTING

1. RED LED flashes continuously after calibration.
   The unit has failed to calibrate. The optics window is obscured. Clean window and remove any objects (barrels, toolboxes, etc.) within close proximity of unit.
   Remove hardwire tray, wait at least ten (10) seconds, then reinstall hardwire tray and repeat power-up sequence with three (3) minute delay to allow installer to clear from the view of the sensor. If unit fails, consult Sloan Technical Support.

<div align="center">

When assistance is required, please contact Sloan Technical Support at:
1-888-SLOAN-14 (1-888-756-2614)
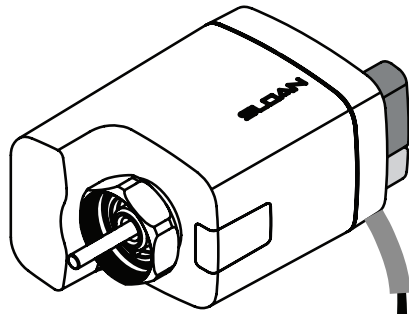
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CARE AND CLEANING

DO NOT USE abrasive or chemical cleaners (including chlorine bleach) to clean side mount unit or flushometer that may dull the luster and attack the finish.

Use **ONLY** mild soap and water, then wipe dry with clean cloth or towel.While cleaning the bathroom tile, protect the side mount unit from any splattering of cleaner. Acids and cleaning fluids will discolor or remove chrome plating or damage the sensor window.

DO NOT USE abrasive or chemical cleaners (including chlorine bleach) to clean sensor window that may distort or ruin the sensor.
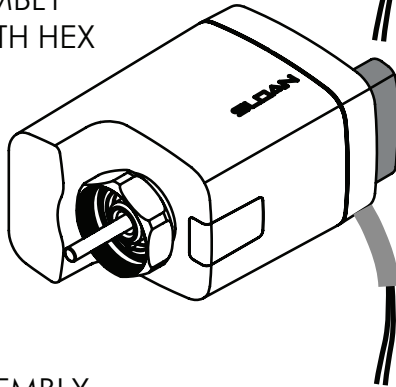
EL-750-A
DUAL-FLUSH
SIDE MOUNT

EBV-505-A
SLEEVE ASSEMBLY
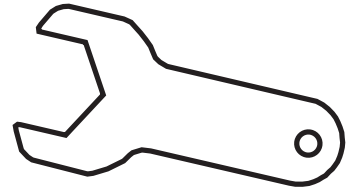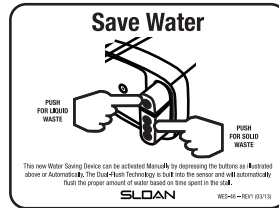(SUPPLIED WITH HEX
WRENCH)

EL-700-A
SINGLE-FLUSH
SIDE MOUNT

EBV-570-A
SLEEVE ASSEMBLY
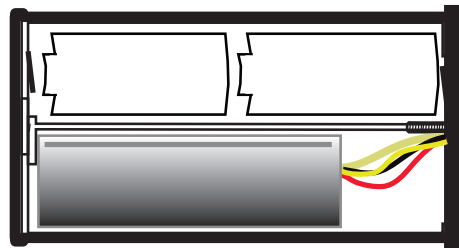(SUPPLIED WITH HEX WRENCH)

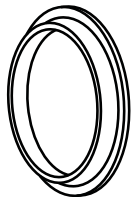BATTERY COMPARTMENT
HEX WRENCH 2.5 MM

EBV-545
COLLAR WRENCH

Save Water

PUSH
FOR LIQUID
WASTE

PUSH
FOR SOLID
WASTE

This new Water Saving Device can be activated Manually by depressing the buttons as illustrated above or Automatically. The Dual-Flush Technology is built into the sensor and will automatically flush the proper amount of water based on time spent in the stall.

SLOAN   WES-46 – REV1 (03/13)

WES-46 WALL PLATE

EL-664-A HARDWIRE
TRAY ASSEMBLY

EL-612-A WALL FLANGE
MOUNTING KIT

EBV-575-A
GEM ADAPTOR KIT
FOR SFSM ONLY
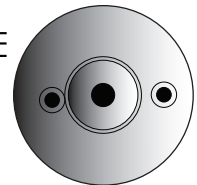
YELLOW GASKET
(FOR -G VARIATION ONLY)
EBV-576 (5325376)
(PACK OF 5)

CHROME ADAPTER
(FOR =G VARIATION ONLY)

US Patent Pending. OPTIMA Systems
The information contained in this document is subject to change without notice.