# SOLIS® Flushometers
## Single-flush and Dual-flush



| Item. | Code. | Part. | Description |
|---|---|---|---|
| **Items Included with RESS Retrofit and Complete Sloan SOLIS® Valves** | | | |
| 1. | **0325300** | EBV-304-A | Cover/Sensor/Assembly - Closet SOLIS 1.6 & 1.28 gpf Electronic Single Button Flush |
| | | EBV-379-A | Cover/Sensor/Assembly - Closet SOLIS 1.1 gpf Electronic Single Button Flush |
| | **0372024** | WES-24-A | Cover/Sensor/Assembly Closet SOLIS Electronic Dual Flush |
| | **0325301** | EBV-306-A | Cover/Sensor/Assembly - Urinal 0.5 & 1.0 gpf SOLIS Electronic Single Button |
| | **0325328** | EBV-328-A | Cover/Sensor/Assembly - Urinal 0.25 gpf SOLIS Electronic Single Button |
| | **0325394** | EBV-385-A | Cover/Sensor/Assembly - Urinal 0.125 gpf SOLIS Electronic Single Button |
| | **0325320** | EBV-320-A | Cover/Sensor/Assembly - Closet 1.6 & 1.28 gpf SOLIS Electronic Single Button Flush fits Zurn* valve bodies |
| | **0372028** | WES-28-A | Cover/Sensor/Assembly- Closet SOLIS Electronic Dual Flush - fits Zurn* valve bodies |
| | **0325321** | EBV-321-A | Cover/Sensor/Assembly Urinal 0.25 gpf SOLIS Electronic Single Button - fits Zurn* valve bodies |
| 2. | **0325311** | EBV-311-A | Cover Assembly - SOLIS Electronic Dual Flush Flush |
| | **0325309** | EBV-309-A | Cover Assembly - SOLIS Electronic Single Button Flush |
| 3. | **0325804** | EBV-14 | Locking Ring |
| | **0305843** | EBV-30 | Locking Ring- fits Zurn* valve bodies |
| 4A. | **0325312** | EBV-312-A-C | Module - SOLIS - Water Closet |
| | **0325313** | EBV-312-A-U | Module - SOLIS - Urinal |
| | **0325397** | EBV-388-A | Module - SOLIS - Urinal 0.125 gpf |
| | — | EBV-382-A | Module - SOLIS - 1.1 gpf Single Button Flush |
| | **0372038** | WES-33-A | Module - SOLIS - Water Closet (Dual Flush) |
| 4B. | **33250011** | EBV Repair Kit | Battery Cover Door |
| 5. | **0325171** | EBV-134 | Cover Rest Plate |
| 6. | **3325456** | EBV-145-A | Inside Cover Assembly (includes solenoid) |
| 7. | **3325453** | EBV-136-A | Solenoid |
| 8. | † See Next Page | | Flex Tube Diaphragm Assembly |
| 9. | † See Next Page | | Flush Volume Regulator |
| 10. | † See Next Page | | Cartridge Assembly **DISCONTINUED** |
| 11. | **3325814** | EBV-1017-A | Handle Cap (RESS Retrofit Models Only) |
| 12. | **0325107** | EBV-91 | Range Adjustment Tool |
| 13. | **0305823** | EBV-22 | Strap Wrench |
| 14 | **0325159** | EBV-137 | 7/64" Hex Wrench |
| | 0372029 | WES-27 | English Plate (Dual Flush only) **DISCONTINUED** |
| | 0372025 | WES-29 | Spanish Plate (Dual Flush only) **DISCONTINUED** |
| **Items Included with Complete Sloan SOLIS® Valves Only** | | | |
| 16 | **3308782** | H-633-AA | 1" (25 mm) Sweat Solder Kit |
| | **3308788** | H-636-AA | ¾" (19 mm) Sweat Solder Kit |
| 17. | **3308386** | H-700-A | 1" (25 mm) Bak-Chek® Control Stop |
| | **3308384** | H-700-A | ¾" (19 mm) Bak-Chek® Control Stop |
| 18 | **3308772** | H-1010-A | Vandal Resistant Stop Cap |
| 19. | **0305381** | EBV-36-A | Valve Body |
| 20A. | — | V-600-AA | 1½" (38 mm) x 10 ½" (229 mm) Vacuum Breaker (Model 8111) (10" Outlet Tube) |
| | — | V-600-AA | 1½" (38 mm) x 15" (584 mm) Vacuum Breaker (Model 8113) |
| | — | V-600-AA | 1½" (38 mm) x 23" (584 mm) Vacuum Breaker (Model 8115) |
| | — | V-600-AA | 1½" (38 mm) x 26" (660 mm) Vacuum Breaker (Model 8116) |
| 20B. | — | V-600-A | 3" (76 mm) Vacuum Breaker Assembly |
| 20C. | — | V-600-AA | ¾" (19 mm) x 10½" (229 mm) Vacuum Breaker (Model 8186) (10" Outlet Tube) |
| 21. | — | F-109 | 1½" (38 mm) Elbow Flush Connection |
| 22A. | **0306146** | F-5-AT | 1½" Spud Coupling Assembly (Models 8110, 8110 8115 & 8116) |
| 22B. | **0306125** | F-5-AW | ¾" Spud Coupling Assembly (Model 8186) |

† Part No. varies depending on flushometer model.
Manufactured in the U.S.A. by Sloan Valve Company under one or more of the following patents: U.S. Patents: D598,975; D599,436; 7,124,997. Other Patents Pending. BAK-CHEK®, PARA-FLO®, PERMEX®, TURBO-FLO®.

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## Single-flush and Dual-flush

## ITEM 8. FLEX TUBE DIAPHRAGM KIT SELECTION GUIDE

| Code No. | Part No. | Description | Regulator Color |
|---|---|---|---|
| **3325001** | EBV-1020-A | 1.6 gpf/6.0 Lpf Closet | GREEN |
| **3325031** | EBV-1024-A | 1.28 gpf/4.8 Lpf Closet | GREEN |
| **—** | EBV-1028-A | 1.1 gpf/4.2 Lpf Closet | GRAY |
| **3325003** | EBV-1023-A | 0.5 gpf/1.9 Lpf Urinal | GREEN |
| **3325090** | EBV-1025-A | 0.25 gpf/10 Lpf Urinal | GREEN |

The EBV-1020-A Kit is supplied with multiple Flush Volume Regulators. The installer must use the correct Regulator when installing the kit.

EBV-1025-A includes H-1015A Flow Control

## ITEM 9. REGULATORS

The flush volume of the flex tube diaphragm kit is controlled by the regulator. Regulators are identified by color. Some flex tube diaphragm kits are supplied with multiple regulators. The installer must make sure the proper regulator is used when installing the flex tube diaphragm kit.

### REGULATOR (SOLD 6 PER PACKAGE)

| Code No. | Part No. | Description | Regulator Color |
|---|---|---|---|
| **5325122** | EBV-95 | Urinal-0.5 gpf/1.9 Lpf | GREEN |
| **5325122** | EBV-95 | Closet-1.6 gpf/6.0 Lpf | GREEN |

## FLEX TUBE DIAPHRAGM ASSEMBLY

O-RING

REGULATOR (MUST BE INSTALLED PAST O-RING)

FLEX TUBE DIAPHRAGM
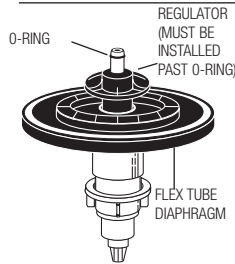
SOLIS models feature Sloan's exclusive flex tube diaphragm for the ultimate in valve performance, reliability and chloramine resistance.
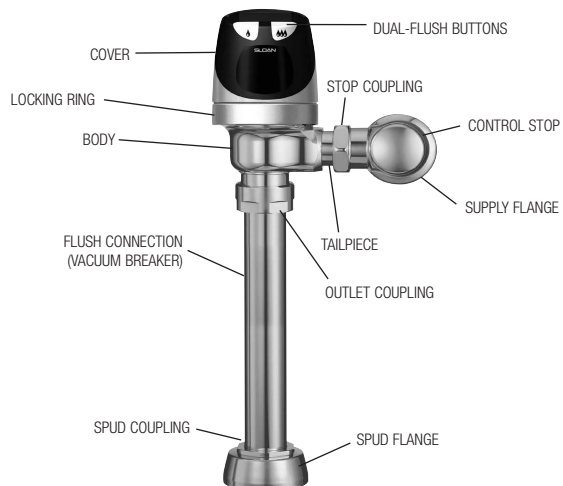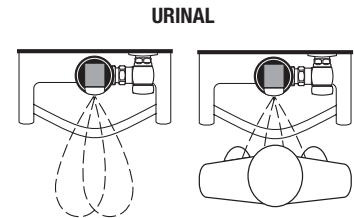
## SLIP JOINT GASKETS AND RINGS

| Size | Code No. | Part No. | Description |
|---|---|---|---|
| 1-1/2" | **5306058** | F-3 | Red Friction Ring |
| | **5322001** | VBF-5 | Black Slip Joint Gasket |
| | **0319086/5319086** | S-30 | Flexible Seat |
| | **0319079** | S-21 | Rigid Seat (rubber over brass) |
| 1-1/2" x 1-1/4" | **0396062** | F-105 | Slip Joint Gasket – Rigid |
| 1-1/4" | **5306057** | F-3 | Red Friction Ring |
| | **5322176** | VBF-5 | Black Slip Joint Gasket |
| | **0307052/5307052** | G-21 | Rigid Seat (rubber over brass) |
| 1" | **5306056** | F-3 | Red Friction Ring |
| | **5306115** | F-5 | Black Slip Joint Gasket |
| 3/4" | **5306055** | F-3 | Red Friction Ring |
| | **5306113** | F-5 | Black Slip Joint Gasket |

## OPERATION

1. A continuous, invisible light beam is emitted from the SOLIS® sensor.

2. As the user enters the beam's effective range, 22 to 42 inches (559 mm to 1067 mm) for closet installations and 15 to 30 inches (381 mm to 762 mm) for urinal installations, the beam is reflected into the scanner window to activate the output circuit. Once activated, the output circuit continues in a "hold" mode for as long as the user remains within the effective range of the sensor. For dual-flush models, if the user stays longer than 65 seconds, a full flush will automatically initiate when the user leaves. For single-flush models, once the user steps away, a full flush will automatically initiate.
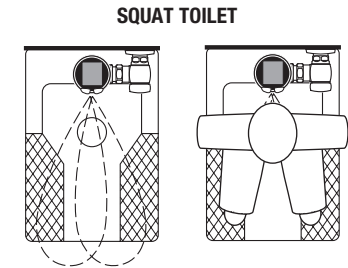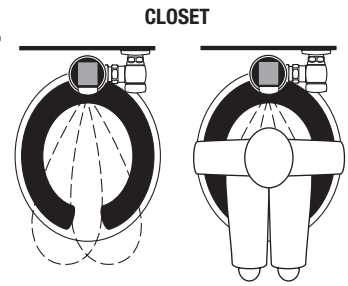
3. For dual-flush models, once a user is detected, if the user leaves in 65 seconds or less, a reduced flush will automatically initiate. The circuit automatically resets and is ready for the next user. For single-flush models , when the user steps away, this initiates a full flush. The circuit automatically resets and is ready for the next user.

**CLOSET**

**SQUAT TOILET**

**URINAL**

DUAL-FLUSH BUTTONS

COVER

STOP COUPLING

LOCKING RING

CONTROL STOP

BODY

SUPPLY FLANGE

FLUSH CONNECTION (VACUUM BREAKER)

TAILPIECE

OUTLET COUPLING

SPUD COUPLING

SPUD FLANGE

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### BATTERY REPLACEMENT

When required, replace batteries with four (4) AA-size batteries.

**Note: Water DOES NOT have to be turned off to replace batteries.**

Loosen the two (2) screws on top of unit. Remove the complete cover assembly. Lift the sensor module from its plate. Unplug the electrical connector from battery compartment cover. Loosen the retaining screw on battery compartment cover and remove battery compartment cover. Install four (4) AA-size batteries **exactly** as illustrated.

Install battery compartment cover and secure with retaining screw. Make certain that battery compartment cover is fully compressed against gasket to provide a seal; **DO NOT** overtighten. Plug the electrical connector into the battery compartment cover. Reinstall the sensor module onto the plate. Reinstall the complete Cover Assembly onto the plate. Tighten the two (2) screws on top of the unit.

COVER ASSEMBLY
(single-flush model shown)

SENSOR MODULE

PLATE

BATTERY COMPARTMENT COVER

RETAINING SCREW

SENSOR MODULE

ELECTRICAL CONNECTOR RECEPTACLE
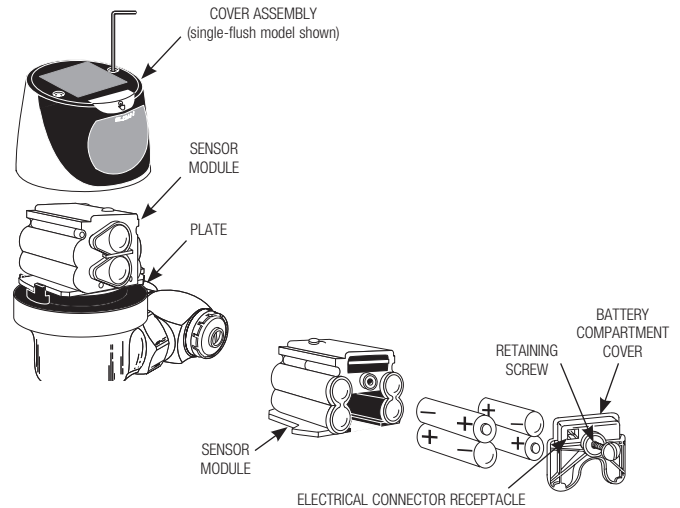
### RANGE ADJUSTMENT (ADJUST ONLY IF NECESSARY)

The SOLIS® has a factory set sensing range:

Water Closet Models - 22" to 42" (559 mm to 1067 mm)

Urinal Models - 15" to 30" (381 mm to 762 mm)

**The Factory setting should be satisfactory for most installations.**

If the range is too short (i.e., not picking up users) or too long (i.e., picking up opposite wall or stall door) the range can be adjusted.

**Note: Water DOES NOT have to be turned off to adjust range.**

Loosen the two screws on top of the unit and remove cover. Remove the rubber plug from top of electronic sensor module to uncover the potentiometer.

### RANGE ADJUSTMENT PROCEDURE

For the first ten (10) minutes of operation, a visible light flashes in the sensing window of the SOLIS® flushometer when a user is detected. This visible light feature can be reactivated after ten (10) minutes by opening and closing the battery compartment door.

Check the range by stepping toward the unit until the light flashes, indicating the sensor's maximum detection limit. Adjust the range potentiometer screw located on top of the sensor module a few degrees CLOCKWISE to increase the range or a few degrees COUNTERCLOCKWISE to decrease the range. Repeat this adjustment until the desired range is achieved.

**Always determine the sensing range with metal cover and lens window on top of the unit.**

**IMPORTANT: Adjust in small increments only! Range potentiometer adjustment screw rotates only ¾ of a turn; DO NOT over-tighten.**

When range adjustment is satisfactory, replace the Rubber Plug. Reinstall Cover and tighten the two Screws on top of the unit.

**IMPORTANT: Adjust in small increments only! Range potentiometer adjustment screw rotates only 3/4 of a turn; DO NOT over-rotate.**

When range adjustment is satisfactory, replace the rubber plug. Reinstall cover and tighten the two screws on top of the unit.

COUNTER-CLOCKWISE

CLOCKWISE

Decreases Range

Increases Range

COVER ASSEMBLY
(single-flush model shown)