

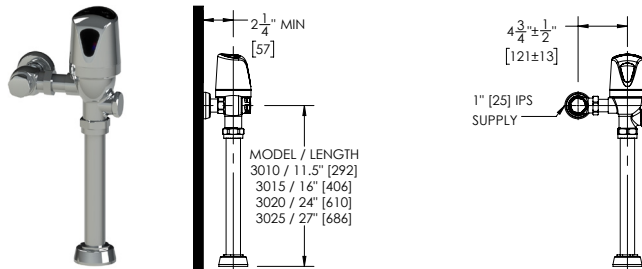
COBALT Pro® Exposed Sensor Flush Valve Installation Instructions

Part No. 101819 : 3000 Series

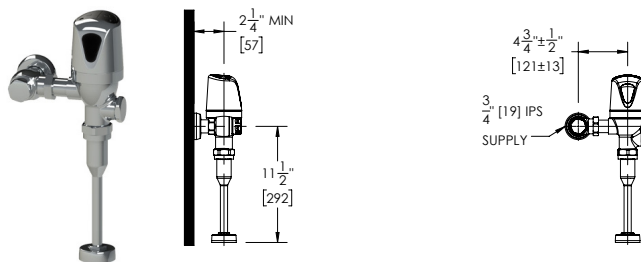
I-CON®
A WATTS Brand

EXPOSED SENSOR FLUSH VALVES

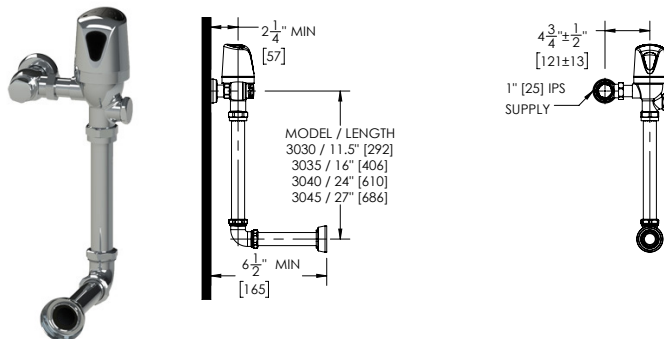
TOP EXPOSED



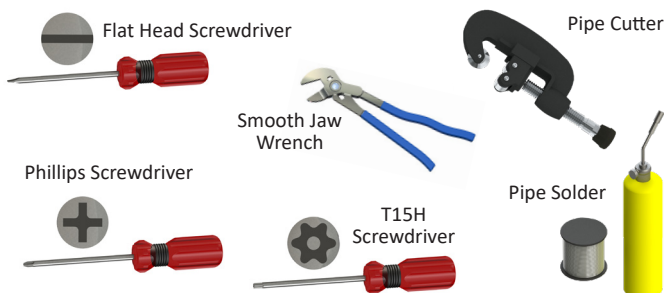
URINAL EXPOSED



REAR EXPOSED



TOOLS NEEDED



PRIOR TO INSTALLATION

- All plumbing should be installed according to applicable state and local codes and regulations.
- Before installation of the I-CON flush valve, ensure the water closet or urinal fixture, drain line and water supply line are properly installed.
- Water supply lines must be sized to allow for appropriate water flow for each fixture.
- Flush all water supply lines of any debris before making connections.
- Do not use pipe sealant or plumbing grease on any components or couplings, with the exception of the control stop inlet.
- A smooth jaw or strap wrench should be used for installation to prevent damage to the finish of the I-CON flush valve and components.

The I-CON flush valve is designed to operate at water pressures ranging from 15 to 100psi (103 to 689kPa). The fixture type determines the minimum pressure required for the valve. Most low-consumption water closets are designed to operate with a minimum flowing water pressure of 25psi (172kPa). Many building codes and the ASME A112.19.2 standard state maximum static water pressure as 80 psi.

LIMITED WARRANTY

I-CON Systems (I-CON) warrants that its commercial manufactured products are made of first-class materials, are free from defects, and are made to withstand normal use when installed properly. Products have the following warranty periods: 3 years for COBALT®, COBALT Pro®, and COBALT Connect® faucets and flush valves and I-CON EDGE® gateways. 1 year for all other products and decorative finishes. The warranty period begins on the date of purchase.

Products should be sent to I-CON at the customer's expense. I-CON will take a reasonable amount of time to determine if the product is defective and whether it will be repaired or replaced. During the warranty period, items will either be (1) repaired at no charge using new replacement parts or (2) replaced with either a new similar product or one manufactured from new or serviceable used parts that are at minimum a functional equivalent to the original. The course of action will be determined at I-CON's discretion. Replacement products that are installed according to the instructions provided by I-CON will assume the remaining warranty of the original product. The limited warranty is only applicable to the product's materials and workmanship. No claims for labor, transportation, or other incidental or consequential costs will be allowed. No extended warranties are available. THE SOLE AND EXCLUSIVE REMEDY FOR ANY DEFECTIVE PRODUCT IS LIMITED TO REPAIRING OR REPLACING THE DEFECTIVE PRODUCT. Before installing and using products, the purchaser is responsible for determining the products' suitability and assumes all risks and liabilities related to the product.

This warranty only applies to persons and organizations that purchase I-CON products directly from I-CON or an authorized I-CON representative for the purpose of resale. This warranty does not apply to the life of batteries or other consumables.

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OPTIONAL SWEAT SOLDER THREADED ADAPTER INSTALLATION (FOR WATER SUPPLY LINES THAT DO NOT HAVE MALE THREADS)

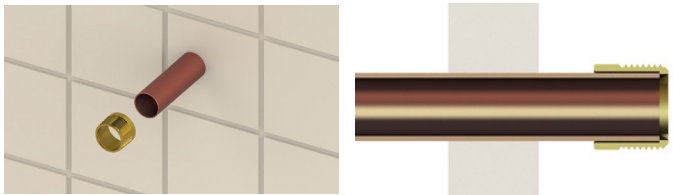
Step 1

Measure distance from finished wall to centerline of fixture spud. Cut water supply pipe 1-1/4" (32mm) shorter than this measurement. Chamfer then deburr inner and outer diameter of water supply pipe.



Step 2

Slide threaded adapter onto water supply pipe. Ensure full insertion.



Step 3

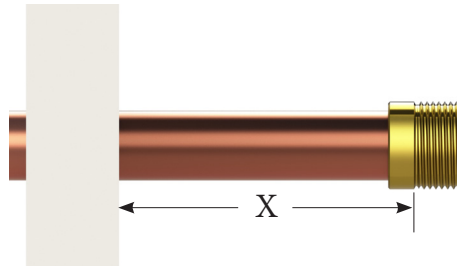
Sweat solder threaded adapter to water supply pipe.



WALL ESCUTCHEON, SUPPLY COVER TUBE AND CONTROL STOP INSTALLATION

Step 1

Measure distance from finished wall to first thread of threaded adapter. Cut supply tube cover to measured length.



Step 2

Slide wall escutcheon over supply tube cover. Slide assembly over water supply pipe. Ensure wall escutcheon and supply tube cover rests flush against wall.



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Step 3

Apply sealing compound to threaded adapter. Tighten control stop onto threaded adapter using a smooth jaw wrench.



Step 4

Unscrew control stop cap. Turn adjustment screw **CLOCKWISE** to ensure control stop is closed. Turn on water supply and check for leaks.



FLUSHING SUPPLY LINE

Step 1

Turn adjustment screw **COUNTERCLOCKWISE** to open control stop. Flush debris into bucket.



Step 2

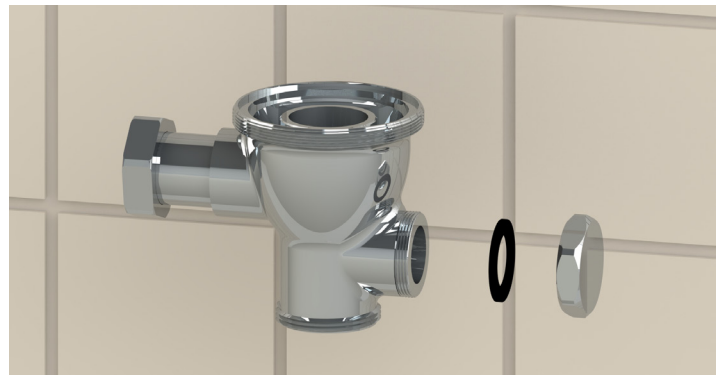
Turn adjustment screw **CLOCKWISE** to close control stop.



FLUSH VALVE & VACUUM BREAKER INSTALLATION

Step 1

Install actuator cover on flush valve body.



Step 2

Lubricate tailpiece O-ring with water. Insert flush valve tailpiece into control stop.



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Step 3

Assemble vacuum breaker tube and spud escutcheon assemblies as shown. **NOTE:** The vacuum breaker tube may need to be cut to fit properly. If using scored vacuum breaker, always cut from scored end and leave at least 1-1/4" (32mm) of scoring. See chart below.

Step 4

Ensure flush valve is properly aligned with fixture and vacuum breaker tube. Tighten connections by hand.



BATTERY INSTALLATION

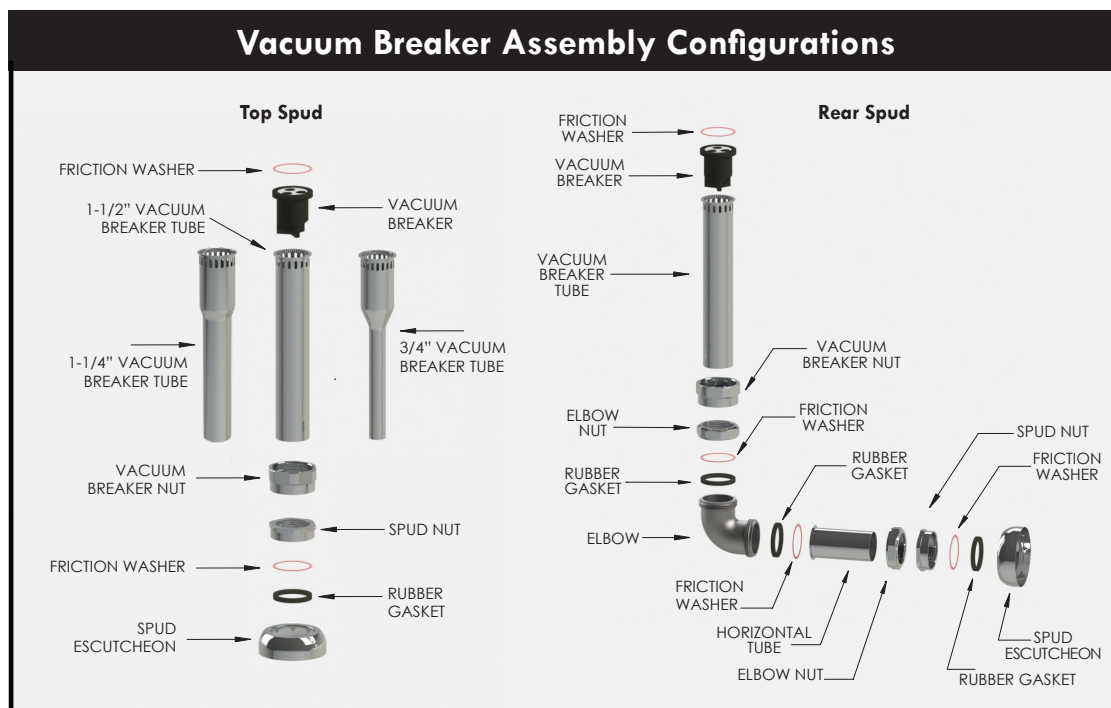
Step 1

Remove screws from top of control module assembly. Remove cover.



Step 5

Once properly aligned, tighten connections with a smooth jaw wrench.



See I-CON Flush Connection Guide for details on available options.

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Step 2

To remove battery module from control module, squeeze locking tabs and lift upwards.



Step 3

Remove screw and battery cover. Insert six (6) new AA batteries follow polarization markings. Reinstall battery cover and tighten screw. **NOTE:** Only use alkaline batteries of same brand and age.



Step 4

Reinstall battery pack onto control module.



ProLAST® T-SEAL & CONTROL MODULE INSTALLATION

Step 1

Insert ProLAST® T-Seal into flush valve body.



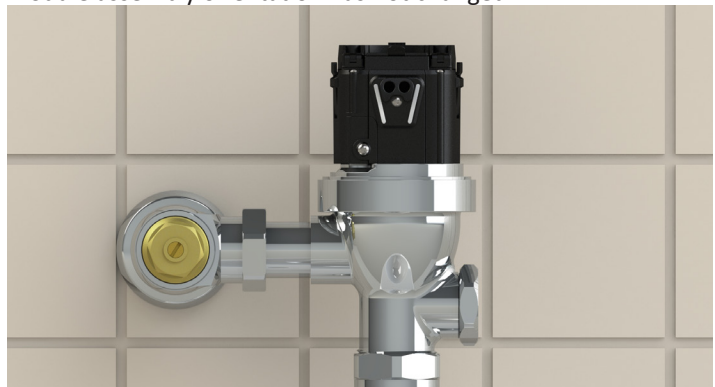
Step 2

Place square-profile O-ring into groove on bottom of control module assembly. Place control module assembly onto flush valve body with front-facing directly towards user.



Step 3

Tighten locking ring by hand to flush valve body. Ensure control module assembly orientation has not changed.



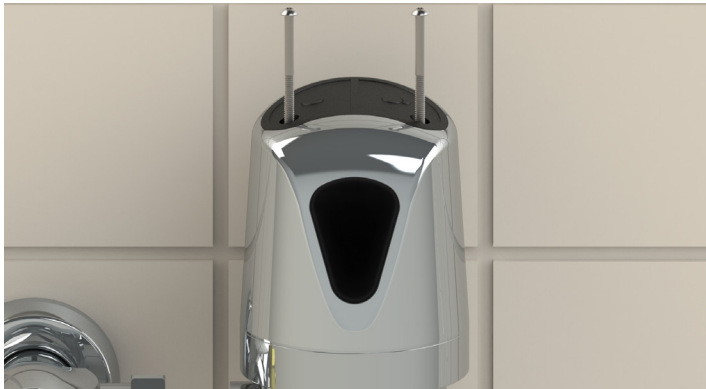
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Step 4

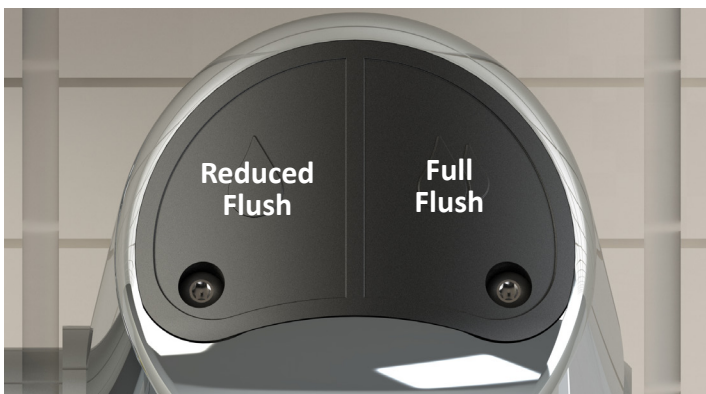
Reinstall cover onto control module assembly. Insert screws and tighten by hand.



ADJUSTING CONTROL STOP

Step 1

Turn adjustment screw **COUNTERCLOCKWISE** 1/2 turn from closed position. Activate flush valve.



Step 2

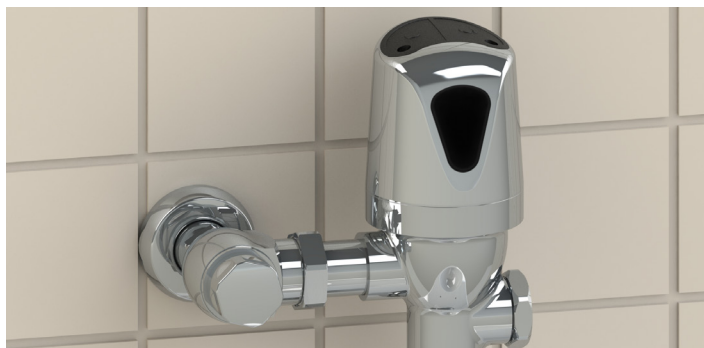
To adjust flush valve, turn adjustment screw in small increments. Activate flush valve after each adjustment. The proper flow rate should completely cleanse fixture without splashing water outside of fixture.

Important Note: The flow from the valve must never exceed the flow capacity of the fixture. If a valve failure should occur, the fixture must be able to accommodate a continuous flow from the valve.



Step 3

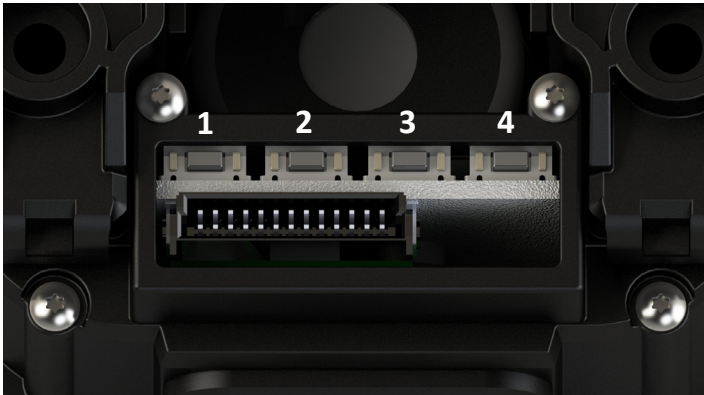
Reinstall control stop cap.



CONTROL MODULE SETUP

NOTE: When powered and cover is removed, control module automatically enters maintenance mode. While maintenance mode is active, a solid green light indicates that a user is detected. Control module exits maintenance mode when cover is replaced or after 30 minutes. To re-renter maintenance mode, press any quick action button.

QUICK ACTION BUTTON DIAGRAM



- 1) Auto Range Quick Action Button
- 2) Profile Selection Quick Action Button
- 3) Activate Quick Action Button
- 4) Flush Count Reset Quick Action Button

AUTO-RANGE

To set range automatically, press and hold the auto range quick action button for 3 seconds. Place target at desired detection range within 5 seconds. Green light blinks every second during countdown. Sensor will lock on to target, indicated by solid green light. Green light will blink to confirm range is set.



NOTE: Test range with targets of various colors and textures for accuracy. Ensure foreign objects, such as stall doors and mirrors, are not detected.

PROFILE

To view current profile, press and release the profile quick action button. The current profile number is displayed through light illuminations, noted in the table below. To change the profile, press and release the profile quick action button while the current profile is displayed. Continue to press and release the profile quick action button until the desired profile is displayed. Press and hold the quick action button for 3 seconds to set the profile. Blue lights will flash to indicate that the profile was saved.

Light Display	Profile	Flush Volume
Red and Blue	Profile 1	10% Water Savings
Blue	Profile 2	5% Water Savings
Green and Blue	Profile 3	Standard Flush Volume

Profile 1: Red and Blue Lights, 10% Water Savings



Profile 2: Blue Light, 5% Water Savings



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Profile 3: Green and Blue Lights, Standard Flush Volume



ACTIVATION

Activates the valve without the cover installed.

ACTIVATION COUNT RESET

The activation count can be monitored using a COBALT® Programmer (sold separately). A red LED blinking alarm will begin once the activation count has surpassed 250,000 cycles. At this time, it is recommended to rebuild the valve. To reset this alarm, press and hold the activation count reset for 5 seconds. The red LED will flash, indicating the count has been reset to 0.

INSTALLATION COMPLETE

CARE OF CHROME PLATED SURFACES

Do not use commercial cleaning compounds to clean flush valve. Abrasive or chemical cleaners may dull the luster and attack finishes. Use mild soap and water and then dry with a clean nonabrasive cloth or towel. A microfiber cloth is recommended. Protect flush valve from any splattering when cleaning the floor, tile, or fixtures. DO NOT USE ACID OR ALCOHOL BASED CLEANERS.