Top Spud Urinal Installation Instructions

⚠ WARNING: Any vitreous china can chip or break if the bolts or nuts are over-tightened or if mishandled. Personal injury can occur if product is mishandled.

BEFORE YOU START…

- Observe all local plumbing and building codes.
- Check for any damage to the new urinal before installation.
- Make sure the wall is strong enough to support the new urinal prior to installation. Reinforce or install a urinal carrier if necessary.
- Urinal complies to ASME Standard A112.19.2

WHAT YOU WILL NEED…

- Electric Drill (heavy duty 1/2" VSR hammer drill preferred if mounting to concrete wall)
- High Speed or carbide tipped masonry bits if mounting to concrete wall
- Putty knife or sharp scraper
- Screwdrivers (phillips and flat head)
- Safety glasses
- Measuring tape and marker
- Level (24" minimum preferred)
- Caulking gun and caulk
- Channel lock pliers, adjustable wrench, and utility knife
- Manual or electric drain cleaner
- Additional materials and tools may be required for rough-in and reinforcing.

NOTE: Plumbing System Requirements
√ Minimum **Flowing** Pressure: 25 PSI

⚠ WARNING: Hazardous gases can escape through the waste pipe if new urinal is not installed quickly. A temporary fix: place a rag in the waste pipe hole.

RETROFIT INSTALLATIONS

1. REMOVE EXISTING URINAL

- Turn off the water supply.
- Disconnect the flush valve.
- Cut caulk all around existing urinal using utility knife to release urinal from wall surface.
- Remove any attaching bolts that may be holding the urinal at the bottom.
- Remove urinal from wall.
- Remove existing hanger bracket.
- Using sharp scraper or putty knife, completely remove all remaining caulk from wall.
- Remove existing outlet flange and gasket and discard.

2. CHECK ROUGH-IN DIMENSIONS

- Check rough-in dimensions. Make any adjustments to water supply to accommodate flush valve as necessary.

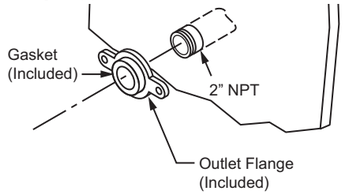
3. CLEAN DRAIN

- Clean out waste pipe using hand or power cleaner to be sure pipe is clear.
- Proceed to NEW INSTALLATIONS.

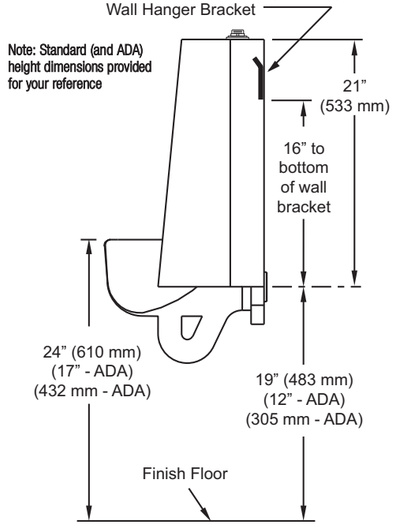
NEW INSTALLATIONS

1. INSTALL OUTLET FLANGE AND GASKET

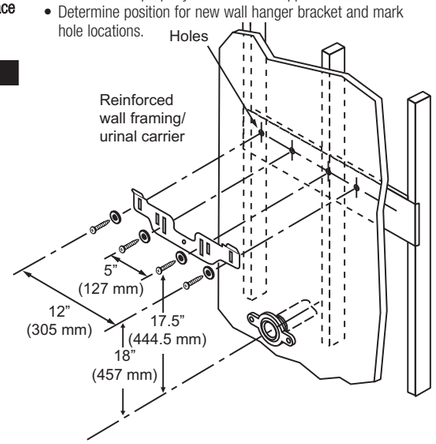
- Remove the temporary rag (if used) from the waste pipe hole.
- Apply thread sealant to waste pipe threads and install new outlet flange on pipe.



2. INSTALL NEW WALL HANGER BRACKET (INCLUDED)



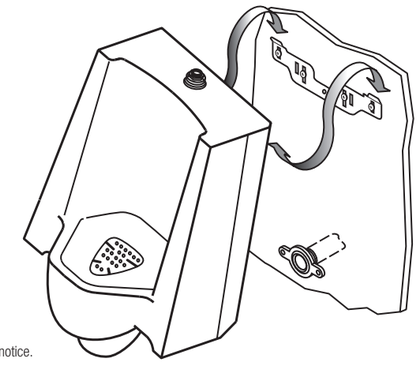
- Wall must be properly reinforced to support urinal.
- Determine position for new wall hanger bracket and mark hole locations.



- Drill holes in wall (use wall anchors if needed.)
- Mount and level wall hanger bracket using mounting screws and washers (included).

3. INSTALL NEW URINAL

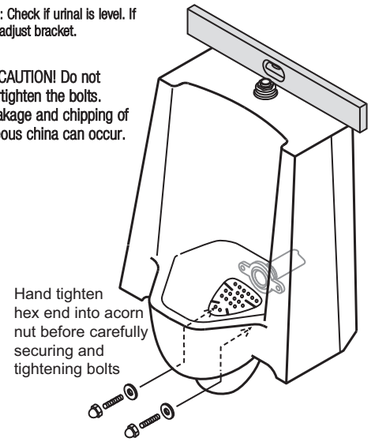
- Install urinal on wall hanger bracket and secure bottom of urinal with bolts.



The information contained in this document is subject to change without notice.

Note: Check if urinal is level. If not, adjust bracket.

⚠ CAUTION! Do not overtighten the bolts. Breakage and chipping of vitreous china can occur.



4. COMPLETING THE INSTALLATION

- Install flush valve to manufacturer's installation instructions.
- Turn on water supply valve.
- Flush urinal a few times and check all connections for water seepage.
- Caulk urinal perimeter where urinal meets the wall surface to provide a suitable hygienic seal.
- Drop in Urinal Fragrance pad (included).
- Recheck for leaks for a few days.
- Record model number for reference and fill out and send in warranty card.

CARE AND CLEANING OF VITREOUS CHINA

Clean urinals with a cleaner safe for vitreous china such as Sloan's Waterfree Urinal Cleaner/Deodorizer. Spray and wipe clean using soft cloth. Soft abrasive cleaners may be used to remove stains.

LIMITED WARRANTY

Sloan Valve Company warrants its Flushometer Products to be made of first class materials, free from defects of material or workmanship under normal use and to perform the service for which they are intended in a thoroughly reliable and efficient manner when properly installed and serviced, for a period of three years from date of purchase. During this period, Sloan Valve Company will, at its option, repair or replace any part or parts which prove to be thus defective if returned to Sloan Valve Company, at customer's cost, and this shall be the sole remedy available under this warranty. No claims will be allowed for labor, transportation or other incidental 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.

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.

NOTE: IN NO EVENT SHALL THE SLOAN VALVE COMPANY BE LIABLE FOR INCIDENTAL DAMAGES, RESULTING FROM IMPROPER INSTALLATION, OR FOR DAMAGES CAUSED BY NEGLECT, ABUSE OR ALTERATION.

SLOAN®

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Instalación de Mingitorio

⚠ ADVERTENCIA: Cualquier porcelana puede astillarse o romperse si los pernos o las tuercas se aprietan de más o si se maltratan. Pueden ocurrir lesiones personales si el producto se maneja erróneamente.

ANTES DE COMENZAR…

- Observe todos los códigos locales de plomería y construcción.
- Revise si el nuevo mingitorio presenta daños antes de su instalación.
- Asegúrese que la pared sea suficientemente fuerte para soportar el nuevo mingitorio antes de instalarlo. Refuerce o instale un portador de mingitorio de ser necesario.
- Las dimensiones cumplen con el estándar ASME A112.19.2

USTED NECESITA…

- Taladro eléctrico (preferible un martillo perforador 1/2" VSR de uso pesado si se monta en pared de concreto)
- Brocas para mampostería de alta velocidad o punta de carburo si se monta en pared de concreto.
- Espátula para masilla o raspador filoso
- Destornilladores (phillips y plano)
- Lentes de seguridad
- Cinta de medir y marcador
- Nivel (mínimo preferido 24")
- Pistola para calafatear y masilla
- Pinzas regulables, llave ajustable y cuchillo multiusos.
- Limpiador de desagüe manual o eléctrico
- Pueden requerirse materiales y herramientas adicionales para preparación y refuerzo.

Nota: Requisitos del sistema de plomería
Presión mínima de **flujo**: 25 PSI

⚠ ADVERTENCIA: Pueden escapar gases peligrosos por la tubería de drenaje si no se instala rápidamente el mingitorio nuevo. Revise sus códigos locales de plomería. Arreglo temporal: coloque un trapo en el agujero de tubo de drenaje.

INSTALACIONES DE REPUESTO

1. REMUEVA EL MINGITORIO EXISTENTE

- Cierre el suministro de agua.
- Desconecte la válvula de descarga.
- Corte la masilla por todo el perímetro del mingitorio existente usando el cuchillo multiusos para soltar el mingitorio de la superficie de la pared.
- Remueva cualesquier pernos de sujeción que puedan estar soportando el mingitorio en la parte inferior.
- Remueva el mingitorio de la pared.
- Remueva el soporte de colgar existente.
- Usando el raspador filoso o la espátula para masilla, remueva por completo la masilla restante de la pared.
- Remueva la brida y el empaque de salida existentes y elimínelos.

2. REVISE LAS DIMENSIONES DE PREPARACIÓN

- Revise las dimensiones de preparación. Haga los ajustes que se requieran a la alimentación de agua para acomodar la válvula de descarga.

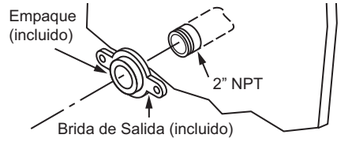
3. LIMPIE EL DESAGÜE

- Limpie el tubo de drenaje usando un limpiador manual o mecánico para asegurarse que el tubo esté despejado.
- Proceda a INSTALACIONES NUEVAS.

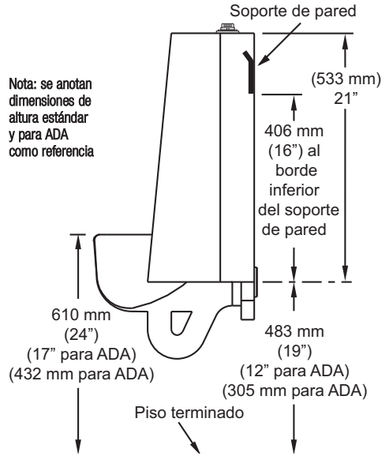
INSTALACIONES NUEVAS

1. INSTALE LA BRIDA Y EL EMPAQUE DE SALIDA

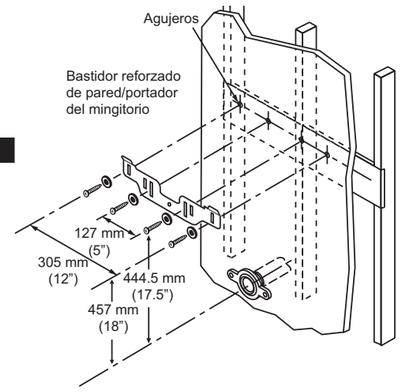
- Remueva el trapo temporal (si se utilizó) del agujero del tubo de drenaje.
- Aplique sellador de rosca a las roscas del tubo de drenaje e instale la nueva brida de salida en el tubo. Ponga el empaque en la brida de salida.



2. INSTALE EL NUEVO SOPORTE (INCLUIDO)



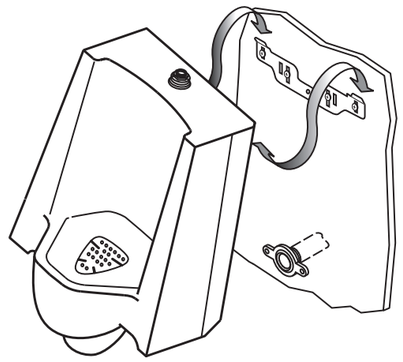
- La pared debe reforzarse adecuadamente para soportar el mingitorio.
- Determine la posición para el nuevo soporte de pared y marque las ubicaciones de los agujeros.



- Taladre agujeros en la pared (use taquetes si se requiere)
- Monte y nivele el soporte de pared usando los tornillos y arandelas de montaje (incluidos).

3. INSTALE EL NUEVO MINGITORIO

- Instale el mingitorio en el soporte de pared y asegúrelo en la parte inferior con pernos.



Nota: Revise si el mingitorio está nivelado. Si no lo está, ajuste el soporte.

⚠ PRECAUCION! No apriete los pernos en exceso. La porcelana puede romperse y astillarse.

4. COMPLETE LA INSTALACIÓN

- Instale la válvula de descarga de acuerdo con las instrucciones del fabricante.
- Abra la válvula de alimentación de agua.
- Descargue el mingitorio varias veces y revise todas las conexiones para verificar si presentan fugas.
- Ponga masilla en el perímetro del mingitorio donde éste se une a la superficie de la pared para aportar un sello higiénico adecuado.
- Coloque la plantilla de fragancia (incluida).
- Siga revisando si hay fugas por varios días.
- Registre el número de modelo como referencia y llene y envíe la tarjeta de garantía.

CUIDADO Y LIMPIEZA DE LA PORCELANA

Limpie los mingitorios con un limpiador que sea seguro para porcelana, como el Desodorante/Limpiador para Mingitorios Sloan Waterfree. Rocíe y talle con un trapo suave. Se pueden utilizar limpiadores abrasivos suaves para remover manchas.

GARANTÍA LIMITADA

Sloan Valve Company garantiza que sus Productos de Fluxómetro están hechos con materiales de primera clase, libres de defectos en material o mano de obra bajo uso normal y que prestan el servicio para el que fueron fabricados en una forma totalmente eficiente y confiable siempre que se instalen adecuadamente y se les dé el servicio adecuado, por un periodo de tres años a partir de la fecha de compra. Durante este periodo Sloan, a su discreción, reparará o reemplazará cualquier parte o partes que se comprueben que estén defectuosas si se devuelven a Sloan a costo del cliente, y éste será el único recurso correctivo que se ofrece con esta garantía. No se aceptan reclamos por mano de obra, transporte u otros costos incidentales. La presente garantía se extiende únicamente a personas u organizaciones que compren los productos de Sloan Valve Company directamente de Sloan Valve Company con fines de reventa.

NO EXISTEN MÁS GARANTÍAS QUE SE EXTIENDAN MÁS ALLÁ DE LA QUE SE DESCRIBIÓ ANTERIORMENTE. EN NINGÚN CASO SLOAN VALVE COMPANY ES RESPONSABLE POR CUALQUIER DAÑO CONSECUENTE DE CUALQUIER CLASE

NOTA: EN NINGÚN CASO SLOAN VALVE COMPANY SERÁ RESPONSABLE POR DAÑOS INCIDENTALES QUE RESULTEN DE INSTALACIÓN INADECUADA O POR DAÑOS CAUSADOS POR NEGLIGENCIA, ABUSO O ALTERACIONES.

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Rear Spud Urinal Installation Instructions

⚠ WARNING: Any vitreous china can chip or break if the bolts or nuts are over-tightened or if mishandled. Personal injury can occur if product is mishandled.

BEFORE YOU START…

- Observe all local plumbing and building codes.
- Check for any damage to the new urinal before installation.
- Make sure the wall is strong enough to support the new urinal prior to installation. Reinforce or install a urinal carrier if necessary.
- Urinal complies to ASME Standard A112.19.2

WHAT YOU WILL NEED…

- Electric Drill (heavy duty 1/2" VSR hammer drill preferred if mounting to concrete wall)
- High Speed or carbide tipped masonry bits if mounting to concrete wall
- Putty knife or sharp scraper
- Screwdrivers (phillips and flat head)
- Safety glasses
- Measuring tape and marker
- Level (24" minimum preferred)
- Caulking gun and caulk
- Channel lock pliers, adjustable wrench, and utility knife
- Manual or electric drain cleaner
- Additional materials and tools may be required for rough-in and reinforcing.

NOTE: Plumbing System Requirements
√ Minimum **Flowing** Pressure: 25 PSI

⚠ WARNING: Hazardous gases can escape through the waste pipe if new urinal is not installed quickly. A temporary fix: place a rag in the waste pipe hole.

RETROFIT INSTALLATIONS

1. REMOVE EXISTING URINAL

- Turn off the water supply.
- Disconnect the flush valve.
- Cut caulk all around existing urinal using utility knife to release urinal from wall surface.
- Remove any attaching bolts that may be holding the urinal at the bottom.
- Remove urinal from wall.
- Remove existing hanger bracket.
- Using sharp scraper or putty knife, completely remove all remaining caulk from wall.
- Remove existing outlet flange and gasket and discard.

2. CHECK ROUGH-IN DIMENSIONS

- Check rough-in dimensions. Make any adjustments to water supply to accommodate flush valve as necessary.

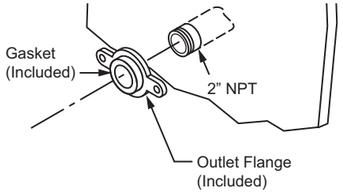
3. CLEAN DRAIN

- Clean out waste pipe using hand or power cleaner to be sure pipe is clear.
- Proceed to NEW INSTALLATIONS.

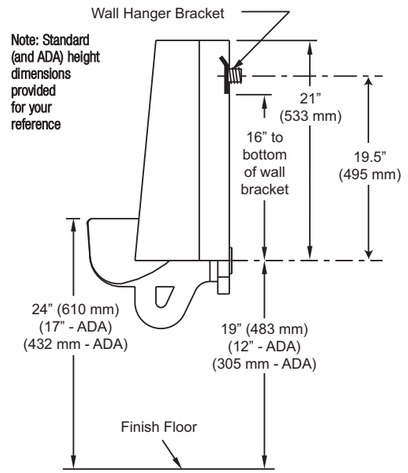
NEW INSTALLATIONS

1. INSTALL OUTLET FLANGE AND GASKET

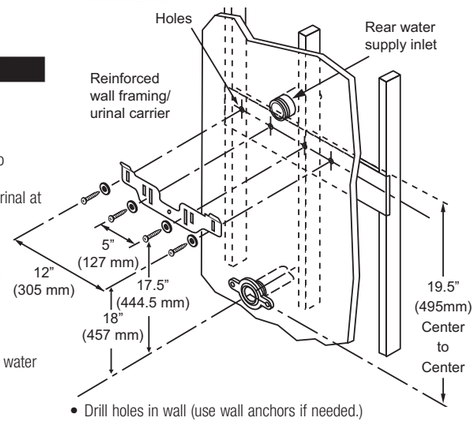
- Remove the temporary rag (if used) from the waste pipe hole.
- Apply thread sealant to waste pipe threads and install new outlet flange on pipe.



2. INSTALL NEW WALL HANGER BRACKET (INCLUDED)



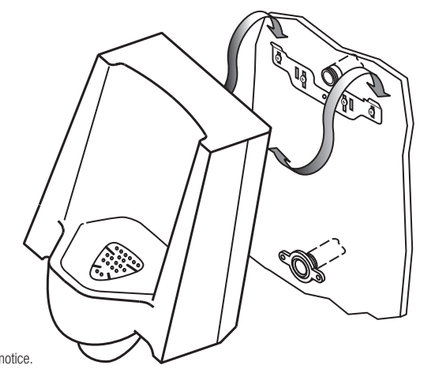
- Wall must be properly reinforced to support urinal .
- Determine position for new wall hanger bracket and mark hole locations.



- Drill holes in wall (use wall anchors if needed.)
- Mount and level wall hanger bracket using mounting screws and washers (included).

3. INSTALL NEW URINAL

- Install urinal on wall hanger bracket and secure bottom of urinal with bolts.



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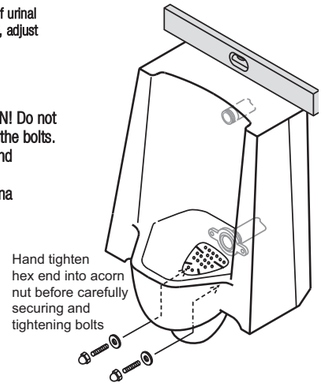
Note: Check if urinal is level. If not, adjust bracket.

⚠ CAUTION! Do not overtighten the bolts. Breakage and chipping of vitreous china can occur.



4. COMPLETING THE INSTALLATION

- Install flush valve to manufacturer's installation instructions.
- Turn on water supply valve.
- Flush urinal a few times and check all connections for water seepage.
- Caulk urinal perimeter where urinal meets the wall surface to provide a suitable hygienic seal.
- Drop in Urinal Fragrance pad (included).
- Recheck for leaks for a few days.
- Record model number for reference and fill out and send in warranty card.

CARE AND CLEANING OF VITREOUS CHINA

Clean urinals with a cleaner safe for vitreous china such as Sloan's Waterfree Urinal Cleaner/Deodorizer. Spray and wipe clean using soft cloth. Soft abrasive cleaners may be used to remove stains.

LIMITED WARRANTY

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Instalación de Mingitorio con Spud Trasero

⚠ ADVERTENCIA: Cualquier porcelana puede astillarse o romperse si los pernos o las tuercas se aprietan de más o si se maltratan. Pueden ocurrir lesiones personales si el producto se maneja erróneamente.

ANTES DE COMENZAR…

- Observe todos los códigos locales de plomería y construcción.
- Revise si el nuevo mingitorio presenta daños antes de su instalación.
- Asegúrese que la pared sea suficientemente fuerte para soportar el nuevo mingitorio antes de instalarlo. Refuerce o instale un portador de mingitorio de ser necesario.
- Las dimensiones cumplen con el estándar ASME A112.19.2.

USTED NECESITA…

- Taladro eléctrico (preferible un martillo perforador 1/2" VSR de uso pesado si se monta en pared de concreto)
- Brocas para mampostería de alta velocidad o punta de carburo si se monta en pared de concreto.
- Espátula para masilla o raspador filoso
- Destornilladores (phillips y plano)
- Lentes de seguridad
- Cinta de medir y marcador
- Nivel (mínimo preferido 24")
- Pistola para calafatear y masilla
- Pinzas regulables, llave ajustable y cuchillo multiusos.
- Limpiador de desagüe manual o eléctrico
- Pueden requerirse materiales y herramientas adicionales para preparación y refuerzo.

Nota: Requisitos del sistema de plomería
Presión mínima de **flujo**: 25 PSI

⚠ ADVERTENCIA: Pueden escapar gases peligrosos por la tubería de drenaje si no se instala rápidamente el mingitorio nuevo. Revise sus códigos locales de plomería. Arreglo temporal: coloque un trapo en el agujero de tubo de drenaje.

INSTALACIONES DE REPUESTO

1. REMUEVA EL MINGITORIO EXISTENTE

- Cierre el suministro de agua.
- Desconecte la válvula de descarga.
- Corte la masilla por todo el perímetro del mingitorio existente usando el cuchillo multiusos para soltar el mingitorio de la superficie de la pared.
- Remueva cualesquier pernos de sujeción que puedan estar soportando el mingitorio en la parte inferior.
- Remueva el mingitorio de la pared.
- Remueva el soporte de colgar existente.
- Usando el raspador filoso o la espátula para masilla, remueva por completo la masilla restante de la pared.
- Remueva la brida y el empaque de salida existentes y elimínelos.

2. REVISE LAS DIMENSIONES DE PREPARACIÓN

- Revise las dimensiones de preparación. Haga los ajustes que se requieran a la alimentación de agua para acomodar la válvula de descarga.

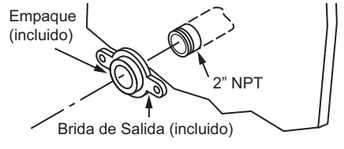
3. LIMPIE EL DESAGÜE

- Limpie el tubo de drenaje usando un limpiador manual o mecánico para asegurarse que el tubo esté despejado.
- Proceda a INSTALACIONES NUEVAS.

INSTALACIONES NUEVAS

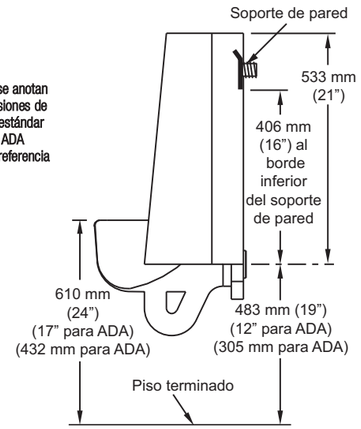
1. INSTALE LA BRIDA Y EL EMPAQUE DE SALIDA

- Remueva el trapo temporal (si se utilizó) del agujero del tubo de drenaje.
- Aplique sellador de rosca a las roscas del tubo de drenaje e instale la nueva brida de salida en el tubo. Ponga el empaque en la brida de salida.

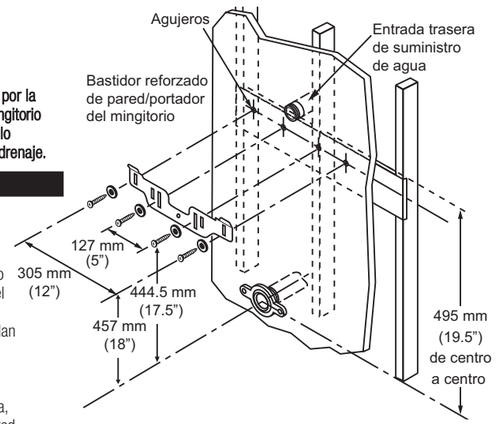


2. INSTALE EL NUEVO SOPORTE DE PARED (INCLUIDO)

Nota: se anotan dimensiones de altura estándar y para ADA como referencia



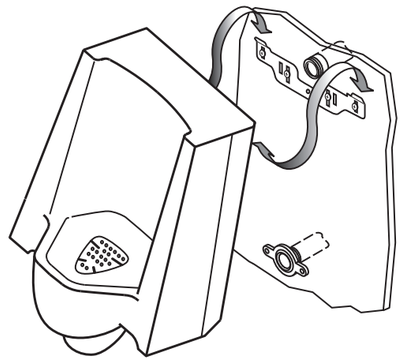
- La pared debe reforzarse adecuadamente para soportar el mingitorio.
- Determine la posición para el nuevo soporte de pared y marque las ubicaciones de los agujeros.



- Taladre agujeros en la pared (use taquetes si se requiere)
- Monte y nivele el soporte de pared usando los tornillos y arandelas de montaje (incluidos)

3. INSTALE EL NUEVO MINGITORIO

- Instale el mingitorio en el soporte de pared y asegúrelo en la parte inferior con pernos.



Nota: Revise si el mingitorio está nivelado. Si no lo está, ajuste el soporte.

⚠ PRECAUCION! No apriete los pernos en exceso. La porcelana puede romperse y astillarse.

4. COMPLETE LA INSTALACIÓN

- Instale la válvula de descarga de acuerdo con las instrucciones del fabricante.
- Abra la válvula de alimentación de agua.
- Descargue el mingitorio varias veces y revise todas las conexiones para verificar si presentan fugas.
- Ponga masilla en el perímetro del mingitorio donde éste se une a la superficie de la pared para aportar un sello higiénico adecuado.
- Coloque la plantilla de fragancia (incluida).
- Siga revisando si hay fugas por varios días.
- Registre el número de modelo como referencio y llene y envíe la tarjeta de garantía.

CUIDADO Y LIMPIEZA DE LA PORCELANA

Limpie los mingitorios con un limpiador que sea seguro para porcelana, como el Desodorante/Limpiador para Mingitorios Sloan Waterfree. Rocíe y talle con un trapo suave. Se pueden utilizar limpiadores abrasivos suaves para remover manchas.

GARANTÍA LIMITADA

Sloan Valve Company garantiza que sus Productos de Fluxómetro están hechos con materiales de primera clase, libres de defectos en material o mano de obra bajo uso normal y que prestan el servicio para el que fueron fabricados en una forma totalmente eficiente y confiable siempre que se instalen adecuadamente y se les dé el servicio adecuado, por un periodo de tres años a partir de la fecha de compra. Durante este periodo Sloan, a su discreción, reparará o reemplazará cualquier parte o partes que se comprueben que estén defectuosas si se devuelven a Sloan a costo del cliente, y éste será el único recurso correctivo que se ofrece con esta garantía. No se aceptan reclamos por mano de obra, transporte u otros costos incidentales. La presente garantía se extiende únicamente a personas u organizaciones que compren los productos de Sloan Valve Company directamente de Sloan Valve Company con fines de reventa.

NO EXISTEN MÁS GARANTÍAS QUE SE EXTIENDAN MÁS ALLÁ DE LA QUE SE DESCRIBIÓ ANTERIORMENTE. EN NINGÚN CASO SLOAN VALVE COMPANY ES RESPONSABLE POR CUALQUIER DAÑO CONSECUENTE DE CUALQUIER CLASE

NOTA: EN NINGÚN CASO SLOAN VALVE COMPANY SERÁ RESPONSABLE POR DAÑOS INCIDENTALES QUE RESULTEN DE INSTALACIÓN INADECUADA O POR DAÑOS CAUSADOS POR NEGLIGENCIA, ABUSO O ALTERACIONES.

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Rev.12 (04/22)

INSTALLATION INSTRUCTIONS FOR RETROFIT AND COMPLETE SLOAN ECOS® VALVE INSTALLATION

HET HIGH-EFFICIENCY TOILET

HEU HIGH-EFFICIENCY URINAL

8100 HET/HEU Complete Flushometer Models

8100 Series Sloan ECOS® Electronic Flush valves are complete Flushometer valves and ideal for new installations.

Reducing Your Water Footprint™

RESS Series Retrofit Conversion Kit Models

RESS Sloan ECOS® Electronic models are used to convert existing Royal, Sloan, and Regal style Flushometers to sensor operation.

Sloan ECOS® Electronic Dual Flush Water Closet & Urinal Models are furnished for the following:

1.6 gpf/1.1 gpf (6.0 Lpf/4.2 Lpf) For Low Consumption Bowls
1.28 gpf/1.1 gpf (4.8 Lpf/4.2 Lpf) For High Efficiency Bowls
0.5 gpf/1.9 Lpf For Washdown Urinals
0.25 gpf/1.9 Lpf For High Efficiency Urinals
0.125 gpf/1.9 Lpf For High Efficiency Urinals

SLOAN® LIMITED WARRANTY SUMMARY

Sloan Valve Company ("Sloan"), warrants its products against defects in materials and workmanship, excluding damage caused by matters beyond Sloan's reasonable control. Instructions for filing claims can be found in the Limited Warranty which can be obtained at www.Sloan.com or by requesting a free copy by telephone at 888.756.2614. Sloan will repair or replace your defective product, or provide a refund, as your exclusive remedy. This is only a general summary of Sloan's Limited Warranty so it is important to note that the specific terms, conditions, limitations and exclusions, including the duration of warranty coverage for your particular Sloan product, are contained in the actual Sloan Limited Warranty. The Limited Warranty is subject to applicable laws in your country, state, province or other jurisdiction—and disputes arising under the Limited Warranty are to be resolved by binding arbitration unless you provide Sloan with an opt-out notice no later than 30 days after your purchase date. In case of a conflict with this summary, the terms and conditions set forth in the complete Limited Warranty will prevail.

PRIOR TO INSTALLING THE SLOAN ECOS® DUAL-FLUSH ELECTRONIC FLUSHOMETER

Prior to installing the Sloan ECOS® Electronic Flushometer, install the items listed below as illustrated in the Rough-in Diagram. (New installations only.)

- Closet fixture
- Drain line
- Water supply line

Important:

- **ALL PLUMBING SHOULD 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.**
- **WHEN INSTALLING A FLUSHOMETER, IT IS IMPORTANT THAT THE FLUSH MODEL MATCHES THE REQUIREMENTS OF THE PLUMBING FIXTURE.**
- **FLUSH ALL WATER LINES PRIOR TO MAKING CONNECTIONS.**

The Sloan ECOS® is designed to operate with 15 to 80 PSI (103 to 552 kPa) of water pressure.

THE MINIMUM PRESSURE REQUIRED TO THE VALVE IS DETERMINED BY THE TYPE OF FIXTURE SELECTED. Consult fixture manufacturer for pressure requirements.

Most High Efficiency water closets require a minimum flowing pressure of 25 psi (172 kPa). Many building codes and the ASME A112.19.2 fixture standard list Maximum static water pressure as 80 PSI (552 kPa).

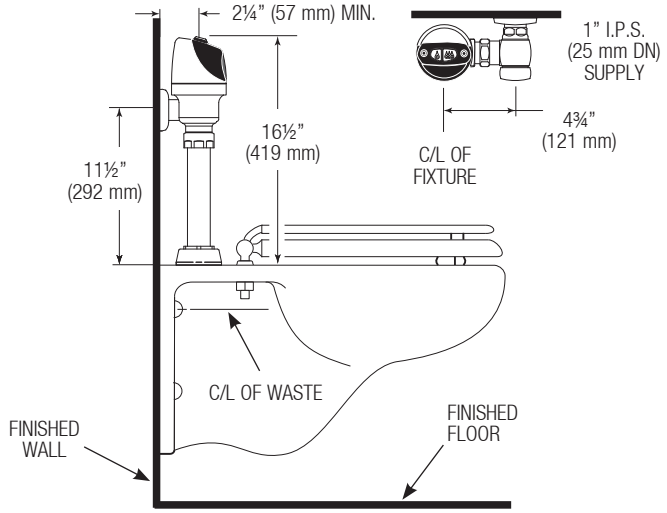
TOOLS REQUIRED FOR INSTALLATION

- Slotted screwdriver to adjust control stop.
- Sloan A-50 Super-Wrench™, Sloan A-109 Plier Wrench or smooth jawed spud wrench for couplings.
- Trimpot adjustment screwdriver (supplied) to adjust range, if necessary.
- Strap wrench (supplied) to install Sloan ECOS® Electronic to valve body.
- 7/64" hex wrench (supplied) to secure Sloan ECOS® Electronic cover to base plate.

VALVE ROUGH-IN

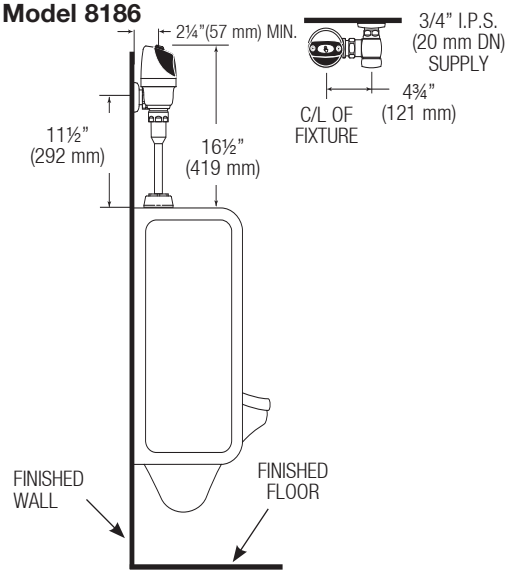
Typical Water Closet Installation Model 8110/8111

Reference for RESS-C Retrofit

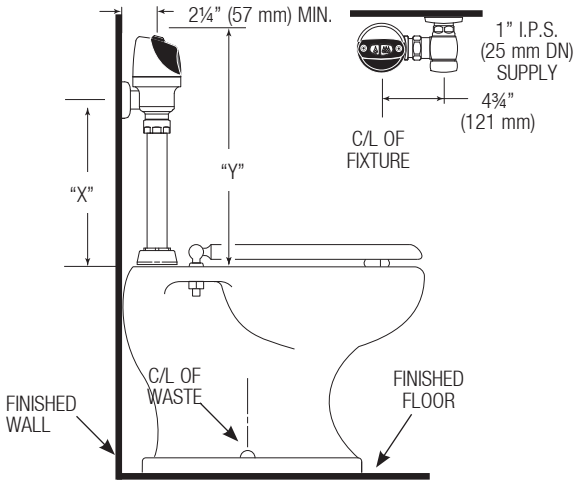


Typical Urinal Installation

Model 8186



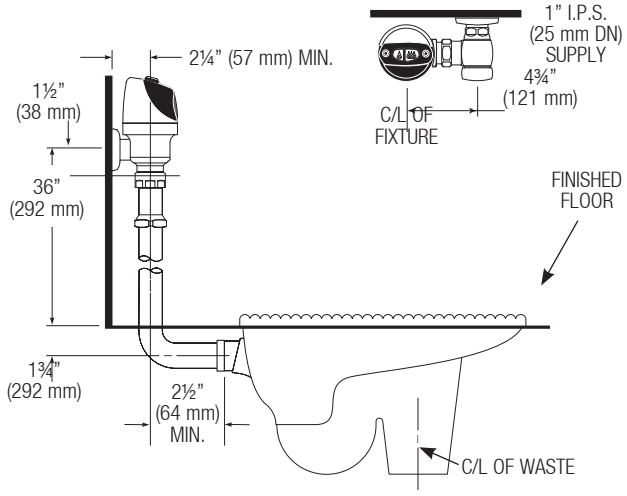
High Rough-in Water Closet Installation Models 8113, 8115 & 8116



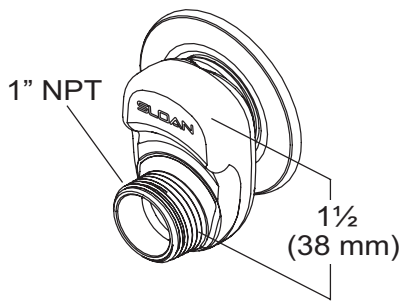
MODEL	"X"	"Y"
8113	16" (406 mm)	21" (533 mm)
8115	24" (610 mm)	29" (737 mm)
8116	27" (686 mm)	32" (813 mm)

Model 8115 & 8116 valves are designed for installations where the water supply is roughed-in 24" - 27" (610 mm - 686 mm) above the top of the water closet.

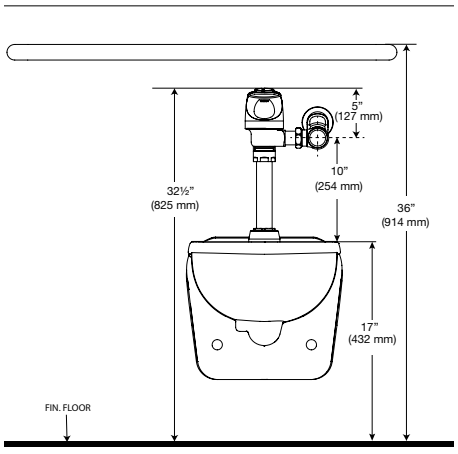
Squat Toilet Water Closet Installation Model 8137



ALTERNATIVE WATER CLOSET INSTALLATION



When installing the Sloan ECOS® Electronic Flushometer in an ADA compliant stall: Per ADA Guidelines (section 604.9.4) it is recommended that the grab bars be split or shifted to the wide side of the stall. For alternative installations, lower water supply rough-in to 10" (254 mm), or use the H-1018-A 1-1/2" offset adapter (not supplied) to lower the overall height. The Sloan H-1018-A 1" NPT x 1-1/2" offset adapter kit (sold separately) is designed to lower a ECOS Flushometer 1-1/2" when the space above the top of the Flushometer conflicts with grab bar clearance. Mount the grab bar at the 36" (914 mm) maximum allowed height (top of grab bar at 36").

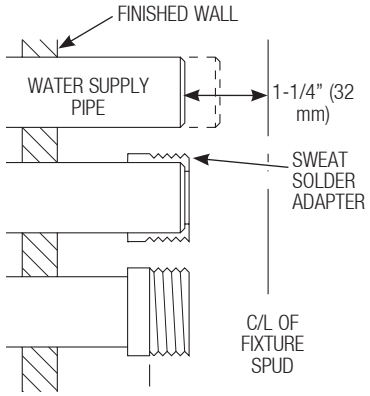


1 - FOR COMPLETE VALVE INSTALLATION, START HERE. FOR RESS RETROFIT INSTALLATIONS, START AT STEP 6. INSTALL OPTIONAL SWEAT SOLDER ADAPTER (ONLY IF YOUR SUPPLY PIPE DOES NOT HAVE A MALE THREAD).

A Measure from finished wall to C/L of Fixture Spud. Cut pipe 1¼" (32 mm) shorter than this measurement. Chamfer O.D. and I.D. of water supply pipe.

B Slide Threaded Adapter fully onto pipe.

C Sweat solder the Adapter to pipe.



!!! IMPORTANT !!!

PROTECT THE CHROME OR SPECIAL FINISH OF SLOAN FLUSHOMETERS — DO NOT USE TOOTHED TOOLS TO INSTALL OR SERVICE THESE VALVES. USE A SLOAN A-50 SUPER-WRENCH™, SLOAN A-109 PLIER WRENCH OR SMOOTH JAWED SPUD WRENCH TO SECURE ALL COUPLINGS. ALSO SEE "CARE AND CLEANING" SECTION

!!! IMPORTANT !!!

WITH THE EXCEPTION OF CONTROL STOP INLET, DO NOT USE PIPE SEALANT OR PLUMBING GREASE ON ANY VALVE COMPONENT OR COUPLING!

!!! IMPORTANT !!!

When further assistance is required, please contact your local Sloan Representative or call Sloan Technical Support at: 1-888-SLOAN-14 (1-888-756-2614)

!!! IMPORTANT !!!

THIS PRODUCT CONTAINS MECHANICAL AND/OR ELECTRICAL COMPONENTS THAT ARE SUBJECT TO NORMAL WEAR. THESE COMPONENTS SHOULD BE CHECKED ON A REGULAR BASIS AND REPLACED AS NEEDED TO MAINTAIN THE VALVE'S PERFORMANCE.

!!! IMPORTANT !!!

WITH THE EXCEPTION OF CONTROL STOP INLET, DO NOT USE PIPE SEALANT OR PLUMBING GREASE ON ANY VALVE COMPONENT OR COUPLING!

!!! IMPORTANT !!!

THE STRAP WRENCH PROVIDED WITH SLOAN ECOS® ELECTRONIC IS A CONVENIENCE TOOL AND IS NOT TO BE USED TO REMOVE OR INSTALL THE FLUSHOMETER COUPLINGS. USE STRAP WRENCH ONLY TO INSTALL SLOAN ECOS® ELECTRONIC LOCKING RING.

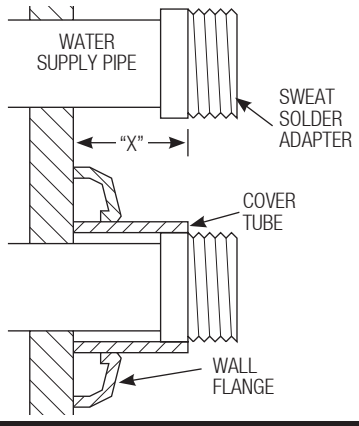
2 - INSTALL COVER TUBE, WALL FLANGE AND CONTROL STOP TO SUPPLY PIPE

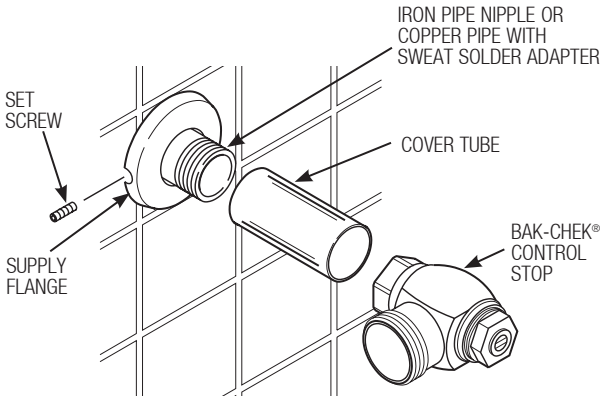
A Measure from finished wall to first thread of Adapter or threaded supply pipe (dimension "X"). Cut Cover Tube to this length.

B Slide Cover Tube over pipe. Slide Wall Flange over Cover Tube until against wall.

C Thread Control Stop onto pipe. Tighten with a wrench.

D Tighten Set Screw with a 1/16" hex wrench. DO NOT install Vandal Resistant Stop Cap at this time.





3 - FLUSH OUT SUPPLY LINE

A Open Control Stop.

B Turn on water supply to flush line of any debris or sediment.

C Close Control Stop.

4 - INSTALL VACUUM BREAKER FLUSH CONNECTION

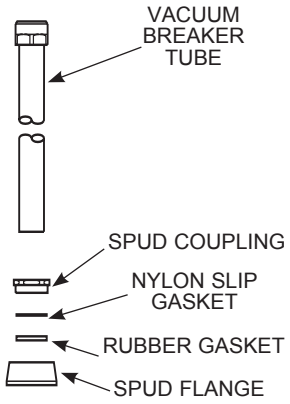
NOTE

If cutting Vacuum Breaker Tube to size, note that Critical Line (C/L) on Vacuum Breaker must typically be 6" (152 mm) above fixture. Consult Code for details.

A Slide Spud Coupling, Nylon Slip Gasket, Rubber Gasket and Spud Flange over Vacuum Breaker Tube.

B Insert Tube into Fixture Spud.

C Hand tighten Spud Coupling onto Fixture Spud.



5 - INSTALL FLUSHOMETER

A Lubricate tailpiece O-ring with water. Insert Adjustable Tailpiece into Control Stop. Tighten Tailpiece Coupling by hand.

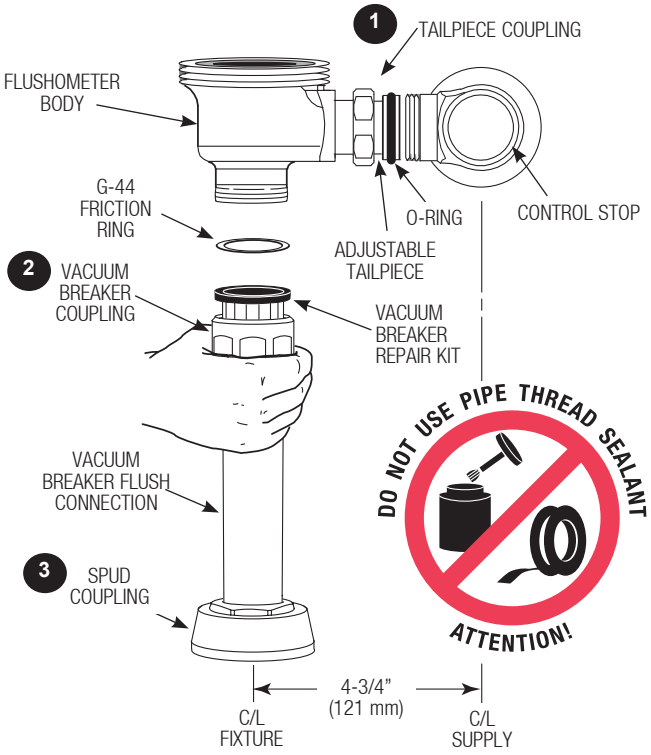
B Align Flushometer directly above the Vacuum Breaker Flush Connection by sliding the Flushometer Body IN or OUT as needed. Tighten Vacuum Breaker Coupling by hand.

NOTE

Maximum adjustment of the Sloan Adjustable Tailpiece is 1/2" (13 mm) IN or OUT from the standard 4-3/4" (121 mm) (centerline of Flushometer to centerline of Control Stop).

If roughing-in measurement exceeds 5-1/4" (133 mm), consult factory for longer tailpiece.

C Align Flushometer Body and securely tighten first the Tailpiece Coupling (1), then the Vacuum Breaker Coupling (2), and finally the Spud Coupling (3). Use a wrench to tighten these couplings in the order shown.



6 - WHEN RETROFITTING AN EXISTING VALVE, START HERE. REMOVE COMPONENTS FROM EXISTING FLUSHOMETER (RESS RETROFIT INSTALLATIONS ONLY)

A Remove Control Stop Cap.

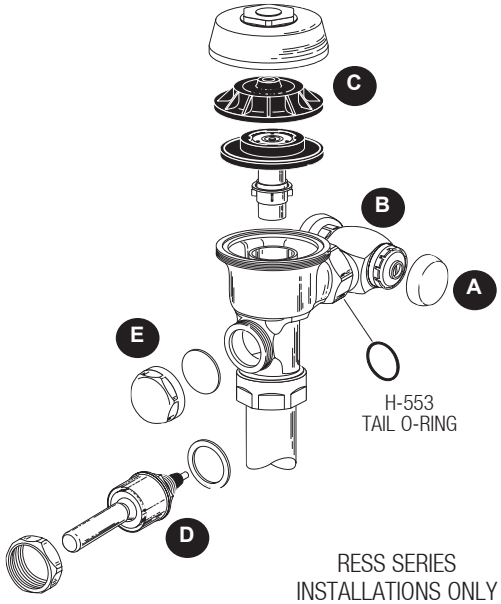
B Turn off water supply at Control Stop. Push Valve Handle to relieve water pressure.

C Remove Outside and Inside Covers and old Inside Parts Kit.

D Remove old Handle Assembly and Gasket.

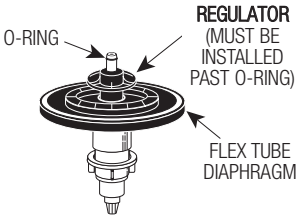
E Install Chrome Handle Cap with Gasket to handle opening on Flushometer Body. Tighten Chrome Handle Cap securely.

NOTE: An extra H-553 Tail O-ring is included in the event leakage occurs if the valve is repositioned during the installation of the new Sloan ECOS® Electronic. Use only as needed.



7 - SLOAN ECOS® ELECTRONIC DUAL-FLUSH VOLUMES (RESS RETROFIT INSTALLATIONS ONLY)

The Dual-Flush Volume of the Sloan ECOS® Electronic is controlled by the Flex Tube Diaphragm Kit. Regulators are identified by color.

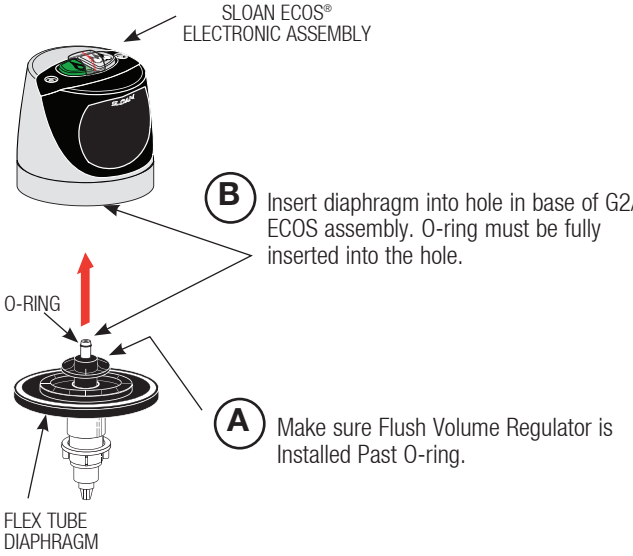


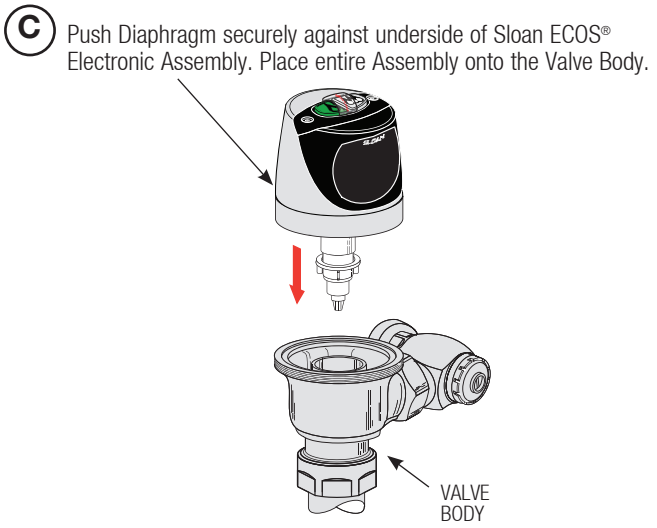
RESS-C Sloan ECOS® Electronic valves are supplied with it's lowest flush volume configuration.

When installing a new Regulator on a Flex Tube Diaphragm Kit, be sure to push the Regulator past the O-ring when installing.

Note: Never use more water than needed. Low Consumption water closets will not function properly on excess water.

8 - ASSEMBLE FLEX TUBE DIAPHRAGM TO SLOAN ECOS® DUAL-FLUSH ELECTRONIC ASSEMBLY



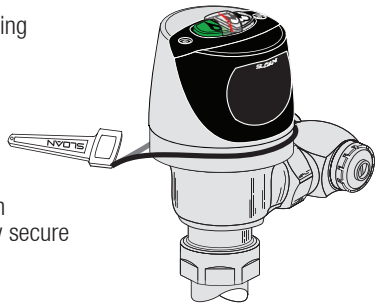


To facilitate installation, the O-ring on the diaphragm assembly must be wet for easier insertion. NOTE: Sensor Lens must face directly forward. Rotating the Sensor to either side will decrease the Sensor's ability to detect a target.

9 - TIGHTEN LOCKING RING

A Thread Locking Ring onto Valve Body.

B Use Strap Wrench provided to tightly secure Locking Ring.



!!! IMPORTANT !!!

The Locking Ring must be installed down past the valve body threads by at least one thread. If difficulty is experienced installing the Locking Ring, turn the Locking Ring back and forth, each time working it further down the threads. The Locking Ring will act as a thread chaser in the event there has been a build-up of matter on the threads of the old valve body.

If retrofitting the Optima Plus onto a †Zurn valve body, a special Locking Ring must be used (identified by a machined groove around the ring).

Order the Optima Plus with the "Z" variation to receive the unit supplied with this Ring.

10 - REMOVE TAB TO ACTIVATE SENSOR MODULE

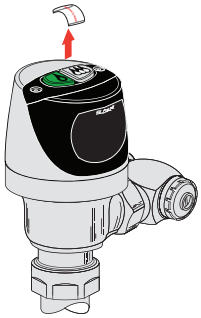
A Remove all removable objects in sensor view area and remove the Tab located over the Override Button to activate the Sensor Module. The sensor module will perform the start-up routine for one minute with LED blinking.

B After the start-up routine is complete, for the first ten (10) minutes of operation, a Visible LED Light flashes in the Sensing Window of the Optima Plus Flushometer when a user is detected.

NOTE

The self adaptive sensor automatically adapts to the surrounding enviroment when the tab on the override button is removed.

No manual adjustments are required. Start-up mode will take approximately one (1) minute to complete its cycle and it is important that no non-permanent target is present at this time. If the target is permanent, the sensor will adapt itself around this target. A 3 seconds long LED light on and followed with slow LED light blinking in sensor window indicates sensor is in the start-up mode. When the start-up cycle is complete, one LED light blink indicates lithium batteries are installed and two LED light blinks indicates alkaline batteries are installed.



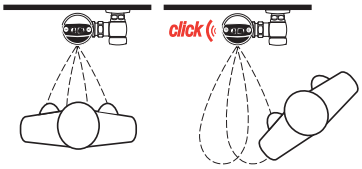
†The brands and/or products names referenced herein may be subject to trademark rights of their respective owners. Use of the brands and names is for identification purposes only and does not imply affiliation with or endorsement by Sloan.

11 - TEST SENSOR OPERATION

The ECOS 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 a range adjustment is required, refer to the Range Adjustment instructions on this page.

A Test Sensor with Cover in Place.



B Stand in front of Sensor for eight (8) seconds

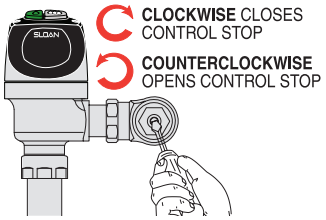
C Step away from Sensor and listen for "CLICK."

*16 seconds-**BT**
Water Closet Models

12 - ADJUST CONTROL STOP AND INSTALL VANDAL RESISTANT STOP CAP

A Open Control Stop COUNTERCLOCKWISE ½ turn from closed position.

B Activate Flushometer by placing hand in front of Optima Plus Sensor Lens for 8-16 seconds and then moving it away (or press override button).



C Adjust Control Stop after each flush until the rate of flow delivered properly cleanses the fixture.

!!! IMPORTANT !!!

The flushometer is engineered for quiet operation. Excessive water flow creates noise, while too little water flow may not satisfy the needs of the fixture. Proper adjustment is made when plumbing fixture is cleansed after each flush without splashing water out from the lip AND a quiet flushing cycle is achieved.

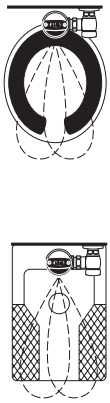
!!! IMPORTANT !!!

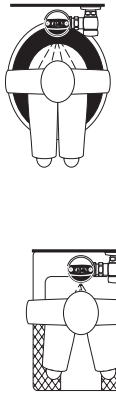
The Control Stop should never be opened to the point where the flow from the valve exceeds the flow capability of the fixture. In the event of a valve failure, the fixture must be able to accommodate a continuous flow from the valve.

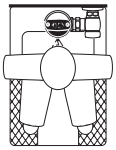
D Install Control Stop Cap onto Control Stop. For RESS retrofit applications, reuse Stop Cap from existing valve. In complete valve installations, a new Stop Cap is provided.
For G2 models, follow the instructions packaged with the Free Spinning Vandal Resistant Stop Cap.

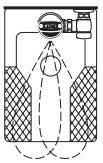
13 - OPERATION

1. A continuous, INVISIBLE light beam is emitted from the Sloan ECOS® Electronic Sensor.
2. As the user enters the beam's effective range, water closets 22 to 42 inches (559 mm to 1067 mm), 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. If the user stays longer than 65 seconds, a full flush will automatically initiate when the user leaves.
3. 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.









14 - RANGE ADJUSTMENT (ADJUST ONLY IF NECESSARY)

The ECOS 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.

Make sure to remove all the non-permanent targets in sensor view area. Push manual override button for 20-30 seconds. the LED in the sensor starts slow blinking. Release the button during the LED blinking (for BT models, press manual override again for 20-30 seconds). The ECOS will enter into distance setting mode. The setting mode will run for one minute.

When further assistance is required, please contact Sloan Technical Support at: +1.888.SLOAN.14 (+ 1.888.756.2614) or visit us online at: sloan.com

NOTE: To automatically check battery strength, troubleshoot, diagnose and report issues with a wireless device, use the Sloan SmartPhone APP. The APP is available free-of-charge at the Apple iPhone APP store for iOS devices or the Google Play APP store for Android devices. For more information about the APP and its capabilities please visit Sloan.com.

To communicate with your flushometer, wave your hand 3 times in front of sensor within 10 seconds to activate your product or press and hold the override button for 12 seconds.

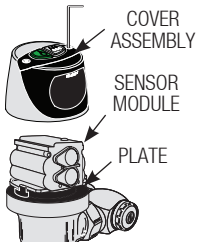
*-BT compatible models only

!!! IMPORTANT !!!

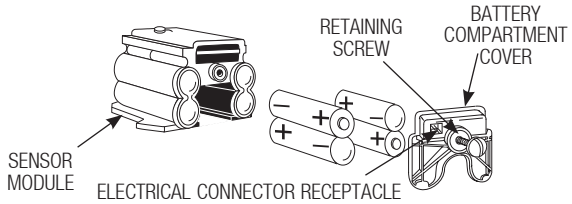
WHEN ADJUSTING RANGE FOR URINAL SENSOR, MAKE SURE TO SET-UP A PROPER TARGET IN FRONT OF URINAL SENSOR.

15- 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.



!!! IMPORTANT !!!

NEVER INSTALL MIXED BATTERY TYPES: (CARBON-ALKALINE-LITHIUM), PRIMARY AND SECONDARY CELLS (NON-RECHARGEABLE VS RECHARGEABLE) REPLACE ALL 4 BATTERIES AT THE SAME TIME WITH FRESH BATTERIES FAILURE ON THE ABOVE CAN REDUCE BATTERY LIFE, CAUSE BATTERY LEAKAGE, AND RESULT IN PRODUCT DAMAGE.

16 - TROUBLESHOOTING

1. Sensor Flashes Continuously Only When User Steps Within Range.

A. Unit in Start-Up mode; no problem. This feature is active for the first ten (10) minutes of operation.

2. Valve Does Not Flush; Sensor Not Picking Up User.

A. Range too short; increase the range.

3. Valve Does Not Flush; Sensor Picking Up Opposite Wall or Surface, or Only Flushes When Someone Walks By. Light Flashes Continuously for First 10 Minutes Even with No One in Front of the Sensor.

A. Range too long; shorten range.

4. Valve Does Not Flush Even After Adjustment.

A. Improper Range Adjustment; Follow Instructions and repeat steps.
B. Batteries completely used up; replace batteries.
C. Problem with Electronic Sensor Module; replace Electronic Sensor Module.

5. Light Blinks 4 Times When User Steps Within Range.

A. Batteries low; replace batteries.

6. Valve Does Not Shut Off.

A. Bypass orifice in diaphragm is clogged with dirt or debris, or bypass is clogged by an invisible gelatinous film due to "over-treated" water. Remove flex tube diaphragm and wash under running water.
Note: Size of Orifice in the Bypass is of utmost importance for the proper metering of water by the valve. DO NOT ENLARGE OR DAMAGE THIS ORIFICE. Replace flex tube diaphragm if cleaning does not correct the problem.
B. Dirt or debris fouling stem or flex tube diaphragm. Remove flex tube diaphragm and wash under running water.
C. O-ring on stem of flex tube diaphragm is damaged or worn. Replace O-ring if necessary.
D. Problem with Electronic Sensor Module; replace Sensor Module. Try swapping out module with working unit to test module function.
E. Are there audible clicks from the solenoid?
No, possibly solenoid stuck inn open position, replace solenoid
Yes, Check solenoid properly screwed into inside cover, check to make sure locking ring was secured properly.
F. If module is working and solenoid clicking, check diaphragm for perforations in diaphragm disc; replace

7. Not Enough Water to Fixture.

A. Wrong Flush Volume Regulator installed in Flex Tube Diaphragm Kit. Install the correct Regulator (see Section 7 of these instructions).
B. Wrong G2/ECOS model installed; i.e., 1 gpf. urinal installed on closet fixture. Replace with proper G2/ECOS model, or refer to the G2/ECOS Conversion Guide to convert existing unit to the proper model.
C. Enlarged Bypass in Diaphragm. Replace Flex Tube Diaphragm.
D. Control Stop not adjusted properly. Readjust Control Stop.
E. Inadequate volume or pressure at supply. Increase water pressure or supply (flow) to valve. Consult factory for assistance.

8. Too Much Water to Fixture.

A. Wrong flush volume regulator installed in flex tube diaphragm kit. Install the correct regulator (see Step 7 of these instructions).
B. Control Stop not adjusted properly. Readjust Control Stop.
C. Wrong G2/ECOS model installed; i.e., 3 gpf. model installed on 1.0 or 1.5 gal. urinal fixture. Replace with proper G2/ECOS model, or refer to the G2/ECOS Conversion Guide to convert existing unit to the proper model.
D. Dirt in diaphragm bypass. Clean under running water or replace flex tube diaphragm.

Note: The EBV-46-A Beam Deflector is no longer required or available for the G2/ECOS.

!!! IMPORTANT !!!

PROTECT THE CHROME OR SPECIAL FINISH OF SLOAN FLUSHOMETERS — DO NOT USE TOOTHED TOOLS TO INSTALL OR SERVICE THESE VALVES. USE A SLOAN A-50 SUPER-WRENCH™, SLOAN A-109 PLIER WRENCH OR SMOOTH JAWED SPUD WRENCH TO SECURE ALL COUPLINGS. ALSO SEE "CARE AND CLEANING" SECTION

!!! IMPORTANT !!!

THIS PRODUCT CONTAINS MECHANICAL AND/OR ELECTRICAL COMPONENTS THAT ARE SUBJECT TO NORMAL WEAR. THESE COMPONENTS SHOULD BE CHECKED ON A REGULAR BASIS AND REPLACED AS NEEDED TO MAINTAIN THE VALVE'S PERFORMANCE.

!!! IMPORTANT !!!

LAWS AND REGULATIONS PROHIBIT THE USE OF HIGHER FLUSHING VOLUMES THAN LISTED ON FIXTURE OR FLUSHOMETER

!!! IMPORTANT !!!

THE CONTROL STOP SHOULD NEVER BE OPENED TO THE POINT WHERE THE FLOW FROM THE VALVE EXCEEDS THE FLOW CAPABILITY OF THE FIXTURE. IN THE EVENT OF A VALVE FAILURE, THE FIXTURE MUST BE ABLE TO ACCOMMODATE A CONTINUOUS FLOW FROM THE VALVE.

!!! IMPORTANT !!!

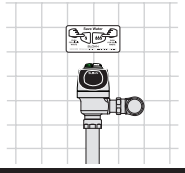
WITH THE EXCEPTION OF CONTROL STOP INLET, DO NOT USE PIPE SEALANT OR PLUMBING GREASE ON ANY VALVE COMPONENT OR COUPLING!

!!! IMPORTANT !!!

THE STRAP WRENCH PROVIDED WITH SLOAN ECOS® ELECTRONIC IS A CONVENIENCE TOOL AND IS NOT TO BE USED TO REMOVE OR INSTALL THE FLUSHOMETER COUPLINGS. USE STRAP WRENCH ONLY TO INSTALL SLOAN ECOS® ELECTRONIC LOCKING RING.

RECOMMENDED WALL PLATE LOCATIONS

- Centered over Flushometer



- On stall door

CARE AND CLEANING

DO NOT use abrasive or chemical cleaners to clean flushometers as they may dull the luster and attack the chrome or special decorative finishes. Use ONLY soap and water, then wipe dry with clean cloth or towel.

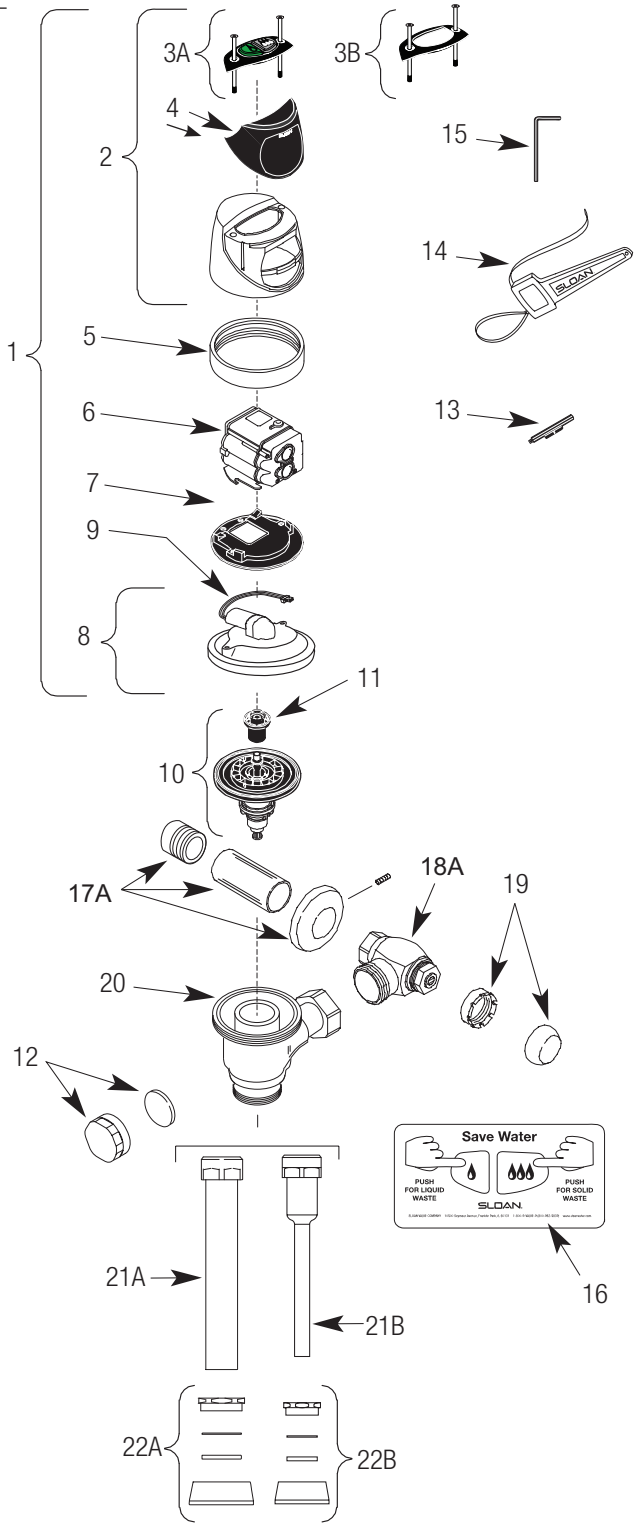
While cleaning the bathroom tile, the Flushometer should be protected from any splattering of cleaner. Acids and cleaning fluids can discolor or remove chrome plating.

PARTS LIST

Item #	Part #	Description
Items Included with RESS Retrofit and Complete Sloan ECOS Flush Valves		
1	WES-55-A*	Cover/Ring/Sensor Assembly - 1.6/1.1 Dual Flush WC
	WES-60-A*	Cover/Ring/Sensor Assembly - 1,6/1.1w/†Zurn® ring Dual Flush WC
	WES-57-A*	Cover/Ring/Sensor Assembly 1.28/1.1 - Dual Flush
	EBV-341-A*	Cover/Ring/Sensor Assembly 0.5 & 0.25 Urinal
	EBV-381-A*	Cover/Ring/Sensor Assembly 0.125 Urinal
2A	EBV-191-A	Cover Assembly - Dual Flush
2B	EBV-142-A	Cover Assembly - Single Flush
3A	WES-23-A	Button Cover Assembly with Screws - Dual Flush
3B	EBV-130-A	Single Button Repair Kit
4	EBV-131	Lens Window Cover
5	EBV-14	Locking Ring
	EBV-30	Locking Ring - for †Zurn® valves
6	EBV-196-A*	Module - ECOS Electronic 1.6/1.1 gpf Dual Flush
	EBV-1054-A*	Module - ECOS Electronic 1.28/1.1 gpf Dual Flush
	EBV-387-A*	Module - ECOS Electronic 0.5 & 0.25 Urinal
	EBV-386-A*	Module - ECOS Electronic 0.125 Urinal
7	EBV-134	Cover Rest Plate
8	EBV-145-A	Inside Cover Assembly (includes solenoid)
9	EBV-136-A	Solenoid
10	EBV-1020-A	Flex Tube Diaphragm Assembly 1.6
	EBV-1024-A	Flex Tube Diaphragm Assembly 1.28
	EBV-1023-A	Flex Tube Diaphragm Assembly 0.5
	EBV-1025-A	Flex Tube Diaphragm Assembly 0.25 & 0.125
11		Flush Volume Regulator (included in 10)
12	EBV-1017-A	Handle Cap (RESS Retrofit Models only)
13	EBV-91	Range Adjustment Tool
14	EBV-22	Strap Wrench
15	EBV-137	7/64" Hex Wrench
16	WES-19	English Operation Instruction Plate
	WES-22	Spanish Operation Instruction Plate
Items Included with Complete Sloan ECOS Valves Only		
17	H-633-AA	† † Sweat Solder Kit
18	H-700-A	† † Bak-Chek® Control Stop
19	H-1010-A	Vandal Resistant Stop Cap
20	EBV-36-A	Valve Body
21A	V-600-AA	1½" (38 mm) x 10" (254 mm) Vacuum Breaker (Model 8110 & 8111)
	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)
21B	V-600-AA	¾" (19 mm) Vacuum Breaker (Model 8186) (Urinal Models)
22A	F-5-AT	1½" Spud Coupling Assembly (Water Closet Models)
22B	F-5-AW	¾" Spud Coupling Assembly (Model 8186) (Urinal Models)

*-BT Sloan Connected Product Models Available

† † Contact Tech Support for Available Sizes



FCC INFORMATION TO USERS

This equipment has been tested and found to comply with the limits for a class B digital devices, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmfull interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmul interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

When further assistance is required, please contact Sloan Technical Support at: +1.888.SLOAN.14 (+1.888.756.2614) or visit us online at: sloan.com

Manufactured in the U.S.A. by Sloan Valve Company under one or more of the following patents: U.S. Patents. 4,839,039; 5,195,720; 5,295,655; 5,542,718; 5,558,120; 5,564,460; 5,887,848; 5,967,182; 6,212,697; 6,382,586; 6,619,614; 6,685,158; 6,691,979; Des. 411,609.

Other Pats. Pending. BAK-CHEK®, CID®, COURTESY FLUSH®, PARA-FLO®, PERMEX®, TURBO-FLO®.

†The brands and/or products names referenced herein may be subject to trademark rights of their respective owners. Use of the brands and names is for identification purposes only and does not imply affiliation with or endorsement by Sloan.

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