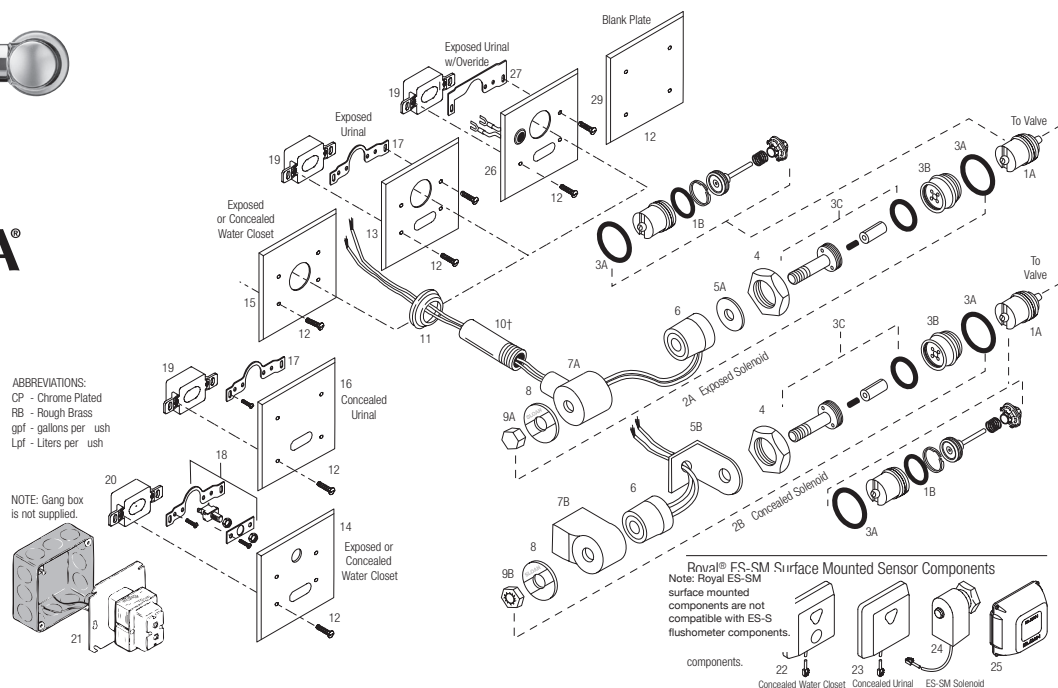


CSUSA PROJECT NO.
23-1013
jon@comfortar.com

FLUSH VALVES

Optima® Flushometer

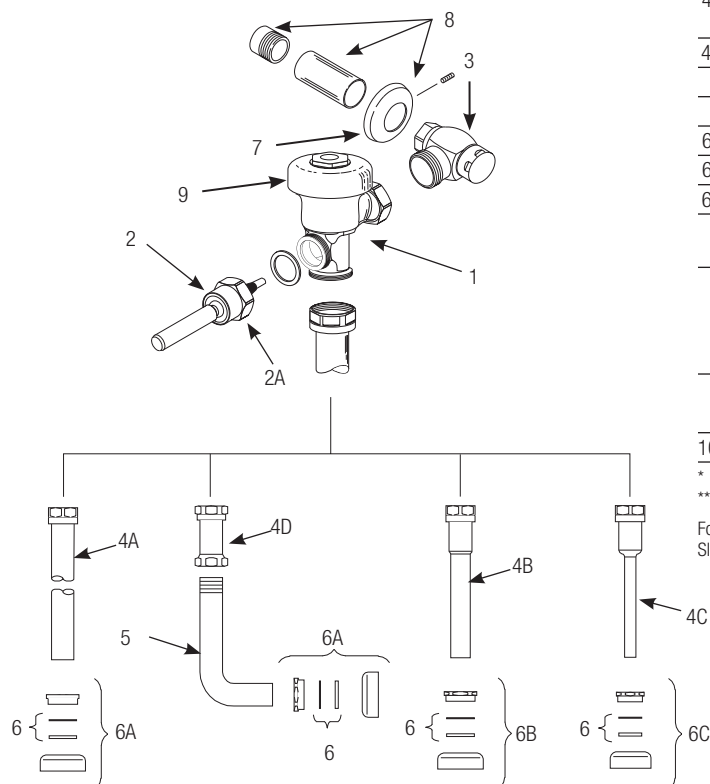
Old Royal® until 05/09, current Sloan/Regal®

**OPTIMA®****SOLENOID/SENSOR PARTS AND ASSEMBLIES LIST**

Item No.	Code No.	Part No.	Description
1A.	3305043	EL-128-A	Actuator Cartridge Assembly Repair Kit Includes Spring, Plunger Guide, Solenoid Valve Seat, Valve Piston Assembly, and O-Ring (also available for ES-SM flushometers)
1B.	0305135	EL-110	O-Ring
2A.	0305328	EL-124-1	120V only (no sensor)
	3305044	EL-1029-A	CP Cartridge/Solenoid Kit EL-124-1 (120V) and EL128-A
	0305329	EL-124-2	24 VAC Solenoid Assembly (exposed installation) Includes Handle Coupling, 24 VAC Coil, Face Plate for 24 VAC Solenoid, Solenoid Adapter, Solenoid Shaft Assembly, Nut for Solenoid, Solenoid Housing, Solenoid Flux Plate, and O-Ring
	3305045	EL-1028-A	CP Cartridge/Solenoid Kit EL-124-2 (24V) and EL128-A
2B.	0305330	EL-138-1	120V only (no sensor)
	0305331	EL-138-2	24 VAC Solenoid Assembly (concealed installation) Includes Handle Coupling, 24 VAC Coil, Face Plate for 24 VAC Solenoid, Solenoid Adapter, Solenoid Shaft Assembly, Nut for Solenoid, Solenoid Base Plate and Solenoid Cover Assembly
3A.	0337086	DO-22	O-Ring
3B.	0305132	EL-104	RB Adapter for Solenoid
3C.	0305165	EL-163-A	Solenoid Shaft Assembly Includes Gasket, Plunger, Plunger Spring, and Solenoid Shaft
4.	0301082	A-6	CP Handle Coupling (exposed installation)
5A.	0305166	EL-164	Solenoid Flux Plate (exposed installation) fine thread
5B.	—	EL-542	N/A Separately
6.	0305119	EL-165-1	120 V Coil
	0305118	EL-165-2	24 VAC Coil
7A.	0345120	EL-162-2	CP Solenoid Housing (exposed installation) fine thread
	0305164	EL-162-1	CP Solenoid Housing (120V) course thread also used on pre-2001 24 V
7B.	0305336	EL-541-A	Solenoid Cover Assembly (Includes Flux Plate)
8.	0305127	EL-102-2	Face Plate for 24 VAC Solenoid (exposed installation)
9A.	0305125	EL-101	CP Nut for Solenoid (exposed installation)
9B.	0305167	EL-166	Housing Nut for Solenoid (concealed installation)
10.	0306249	F-15	Tail †
	0305145	EL-123-A	Old Style ESS 24V course thread (120V also)
	0305337PK	EL-226	1-1/4" Extension for EL-123-A course thread
11.	0345150	EL-431-A	CP Flange Assembly (exposed installation)
	0305139	EL-176-A	Old Style ESS 24V course thread (120V also)
12.	0305152	EL-152	CP Screws (requires four screws per cover plate) Size# 6-32
13.	0305151	EL-151	CP Cover Plate for Sensor and Solenoid Operator (Urinal only) (L/L Variation-0305150)
14.	0305219	EL-201	CP Cover Plate for Sensor and Override Button (Closet only)
15.	0318066	HY-66	CP Cover Plate for Solenoid Operator (Closet only)
16.	0305161	EL-161	CP Cover Plate for Sensor
17.	0305323	EL-168-A	Yoke Assembly (Urinal only)
18.	0305324	EL-141-A	Override Switch and Yoke Assembly (Closet only)
19.	3305620	EL-1500	Urinal Sensor Replacement Kit (Urinal only)
20.	3305621	EL-1500-L	Closet Sensor Replacement Kit (Closet only)
21.	0345154	EL-154	Transformer (120 VAC) (also available for ES-SM flushometers) 50 VA plate mount
	0345999	EL-342	Transformer (240 VAC) (also available for ES-SM flushometers) 50 VA plate mount
22.	3345047	EL-461	Surface Mounted Sensor and Override Button Assembly (closet only)
23.	3345048	EL-497	Surface Mounted Sensor Assembly (urinal only)
24.	0305802	EL-297	Solenoid Assembly
25.	3365003	ETF-492-A	Control Module
26.	0345266	EL-566-A	Exposed Plate with Override Button (Urinal only)
27.	0345267	EL-567-A	Yoke Assembly for EL-566-A
28.	3345080	EL-1026-A	ESS to TMO Retrofit Kit (Exposed)*
—	0305148	EL-227	Repair Tool Kit for EL-163-A Repair Kit
—	0345016	EL-387-A	Override Button Replacement for EL-566-A
—	3345021	EL-1010-A	O-ring Repair Kit*
29.	0305186PK	EL-139	Blank Plate

† NOTE: For exposed & concealed solenoids manufactured before 2001 or not shown here, consult factory for individual part assembly. * Not Shown

Sloan® Flushometer



PARTS LIST

Item No.	Code No.	Part No.	Description
1.	—	A-3-A	Valve Assembly – contact Tech Support for proper assembly
2.	0302390	B-73-A	ADA Compliant Handle Assembly
2A.	0301082	A-6	CP Handle Coupling
3.	—	H-710-A	Bak-Chek® Control Stop – 3/4" or 1"
4A.	5323007	V-500-AA	1-1/2" (38 mm) x 9" (229 mm) Vacuum Breaker Assembly ** – 6 per package
4B.	5323006	V-500-AA	1-1/4" (32 mm) x 9" (229 mm) Vacuum Breaker Assembly – 6 per package
4C.	5323005	V-500-AA	3/4" (19 mm) x 9" (229 mm) Vacuum Breaker Assembly – 6 per package
4D.	—	V-500-A	Vacuum Breaker Assembly
5.	0396293	F-109	1-1/2" (38 mm) Elbow Flush Connection
6.	SEE SLIP JOINT GASKETS AND RINGS TABLE BELOW		
6A.	0306145	F-56-A	1-1/2" (38 mm) Spud Coupling Assembly
6B.	0306142	F-55-A	1-1/4" (32 mm) Spud Coupling Assembly
6C.	0306102	F-54-A	3/4" (19 mm) Spud Coupling Assembly
7.	—	F-7	Supply Flange (Supplied when Valve is not Ordered with Sweat Solder Kit)
8.	3308782	H-633-AA	1" (25 mm) Sweat Solder Kit with Cast Set Screw Flange
	3308788	H-636-AA	3/4" (19 mm) Sweat Solder Kit with Cast Set Screw Flange
9.	0378000PKSV-10		CP Sloan Cover
	0378003PKSV-10-HE		CP High Efficiency Sloan Cover
10.	3388015	H-1015	Flow Control Kit (not Shown)(HEU Only)

* Part number varies with valve model variation; consult factory.

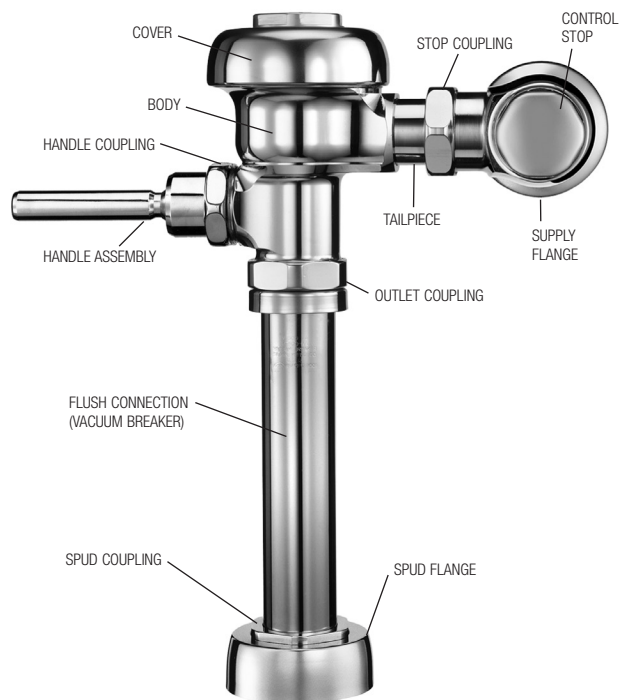
** Length varies with valve model variation; consult factory.

For optimum water conservation and flushometer performance, use only Genuine Sloan Parts.

ITEM 6. 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

Sloan® Flushometer



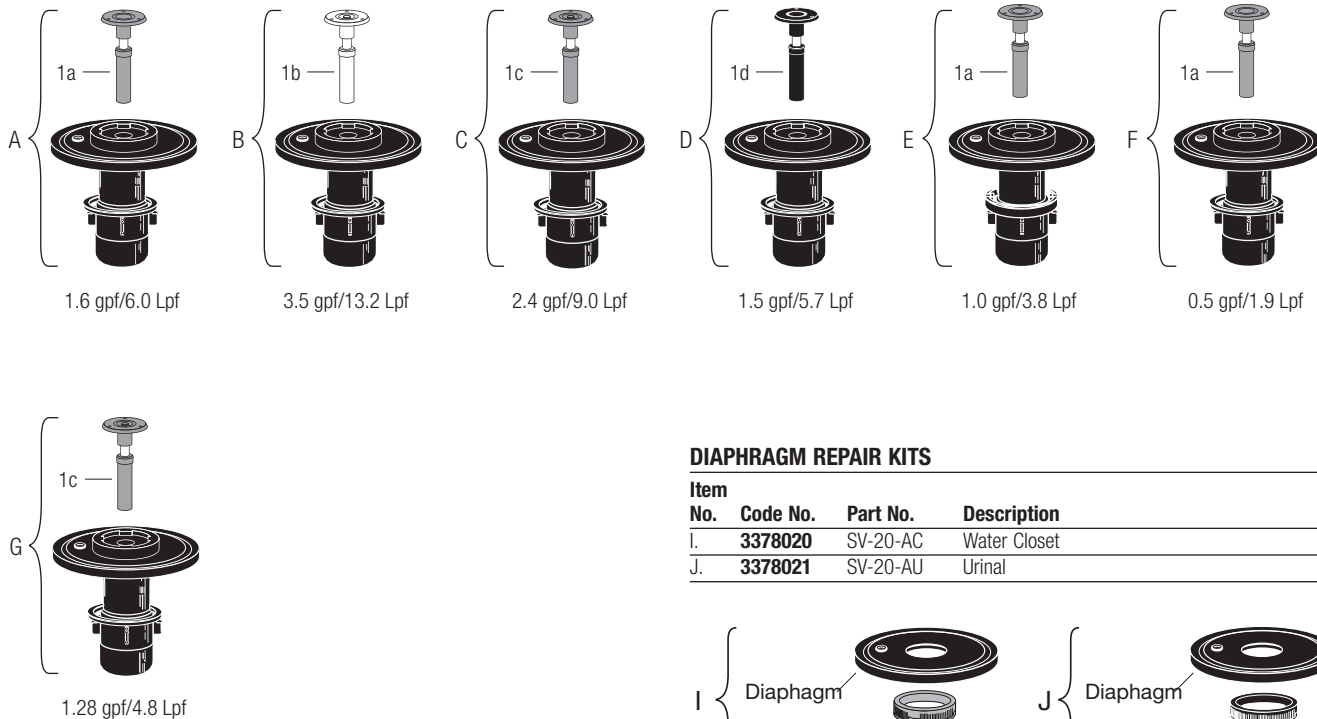
DIAPHRAGM INSIDE PARTS KITS (SEE ILLUSTRATION BELOW)

Refer to Parts List. Includes Relief Valve and Diaphragm Assembly

Item No.	Code No.	Part No.	Application
A.	3378041	SV-41-A	1.6 gpf/6.0 Lpf - Closet
B.	3378038	SV-38-A	3.5 gpf/13.2 Lpf - Closet
C.	3378044	SV-44-A	2.4 gpf/9.0 Lpf - Closet
D.	3378037	SV-37-A	1.5 gpf/5.7 Lpf - Urinal
E.	3378042	SV-42-A	1.0 gpf/3.8 Lpf - Urinal
F.	3378043	SV-43-A	0.5 gpf/1.9 Lpf - Urinal
G.	3378047	SV-47-A	1.28 gpf/4.8 Lpf - Closet

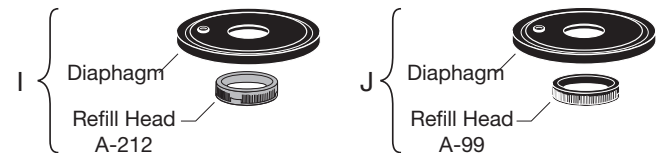
INSIDE COMPONENTS

Item No.	Code No.	Part No.	Description
1a.	5301211	A-19-ALC	Relief Valve, Green (Closet/Urinal-LC) – 12 per package
1b.	5301058	A-19-AC	Relief Valve, White (Closet) – 12 per package
1c.	0301143	A-19-AL	Relief Valve, Blue (9 Liter Closet)
1d.	5301059	A-19-AU	Relief Valve, Black (Urinal) – 12 per package



DIAPHRAGM REPAIR KITS

Item No.	Code No.	Part No.	Description
I.	3378020	SV-20-AC	Water Closet
J.	3378021	SV-20-AU	Urinal



Sloan® Flushometer

TROUBLESHOOTING GUIDE

ATTENTION INSTALLERS: With the exception of the control stop inlet, **DO NOT USE** pipe sealant or plumbing grease on any valve component or coupling! To protect the chrome or special finish of Sloan flushometers, **DO NOT USE** toothed tools to install or service these valves. Use our A-50 Super-Wrench or other smooth-jawed wrench to secure couplings. Regulations for low consumption fixtures (1.6 gpf/6.0 Lpf closets and 1.0 gpf/3.8 Lpf urinals) prohibit use of higher flush volumes.

1. Flushometer DOES NOT function (no flush).

- A. Control stop or main valve is closed. Open control stop or main valve.
- B. Handle assembly is worn. Install handle repair kit or replace handle assembly.
- C. Relief valve is worn. Replace inside parts kit.

2. Insufficient volume of water to adequately siphon fixture.

- A. Control stop not open enough. Adjust control stop for desired delivery of water volume.
- B. Urinal flushometer Parts inside a Closet flushometer. Replace inside urinal parts with proper closet flushometer parts.
- C. Low consumption flushometer installed on a non-low consumption fixture. Replace inside parts kit with water saver kit.
- D. Water saver kit installed in old, non-water saver bowl. Position refill head so that SIDE 1 is in the UP position.
- E. Water supply volume or pressure is inadequate. If no gauges are available to properly measure supply pressure or volume of water at the flushometer, then remove the relief valve from the inside parts kit, reassemble the flushometer and completely open the control stop.
 - If the fixture siphons, more water volume is required. If a 3.5 gpf inside parts kit is installed in the flushometer, then first flip the refill head (under the diaphragm) to obtain a 4.5 gpf volume. If this volume is still inadequate, remove the flow ring from the guide to obtain a 6.5 gpf kit. If additional flow is still required, try a low pressure guide kit. **IMPORTANT: LAWS AND REGULATIONS PROHIBIT THE USE OF HIGHER FLUSHING VOLUMES THAN LISTED ON FIXTURE OR FLUSHOMETER.**
 - If fixture does not siphon or if a Low Consumption fixture is installed, or if the above steps do not prove satisfactory, steps must be taken to increase the water supply pressure and/or volume. Contact the fixture manufacturer for minimum water supply requirements of the fixture.

3. Flushometer closes off immediately.

- A. Ruptured or damaged diaphragm. Replace inside parts kit.
- B. Enlarged bypass orifice from corrosion or damage. Replace inside parts kit.

4. Length of flush is too short (short flushing).

- A. Diaphragm assembly and guide assembly are not hand-tight. Screw the two assemblies hand-tight.
- B. Enlarged bypass orifice from corrosion or damage. Replace inside parts kit.
- C. Urinal flushometer parts inside a closet flushometer. Replace inside urinal parts with proper closet flushometer parts.
- D. Low consumption flushometer installed on a higher consumption fixture. Replace inside parts kit with water saver kit.
- E. Handle assembly is damaged. Replace handle.

5. Length of flush is too long (long flushing) or continuous.

- A. Relief valve is not seating properly or bypass orifice is clogged because of foreign material, or bypass orifice is closed by an invisible gelatinous film from "over-treated" water. Disassemble the working parts and wash thoroughly.
NOTE: SIZE OF ORIFICE IN THE BY-PASS IS EXTREMELY IMPORTANT FOR PROPER METERING OF WATER INTO THE UPPER CHAMBER OF THE FLUSHOMETER. DO NOT ENLARGE OR DAMAGE THIS ORIFICE. REPLACE INSIDE KIT IF CLEANING DOES NOT CORRECT PROBLEM.
- B. Supply line water pressure has dropped and is not sufficient to close the valve. Close control stop until pressure has been restored.
- C. Closet flushometer parts inside an urinal flushometer. Replace inside closet parts with proper urinal flushometer parts.
- D. Inside cover is damaged. Replace inside cover.

6. Chattering noise is heard during flush.

- A. The segment diaphragm is installed upside-down. Replace the segment diaphragm to the proper position as instructed by markings on the diaphragm.
- B. Inside cover is damaged. Replace inside cover.

7. Handle Leaks.

- A. Handle gasket, seal or assembly is damaged. Replace as required.

CARE AND CLEANING INSTRUCTIONS

DO NOT USE abrasive or chemical cleaners (including chlorine bleach) to clean flushometers that may dull the luster and attack the chrome or special decorative finishes. Use **ONLY** mild soap and water, then wipe dry with a clean towel or cloth.

While cleaning the bathroom tile, protect the flushometer from any splattering of cleaner. Acids and cleaning fluids will discolor or remove chrome plating.

When assistance is required, please contact

Sloan Technical Support at: 1-888-SLOAN-14 (1-888-756-2614).

FAUCETS

Installation Instructions

Electronic Bathroom Sink Faucet

Record your model number:

Noter le numéro de modèle:

Anote su número de modelo: _____

Français, page 18

Español, página 35

KOHLER®

Thank You for Choosing KOHLER

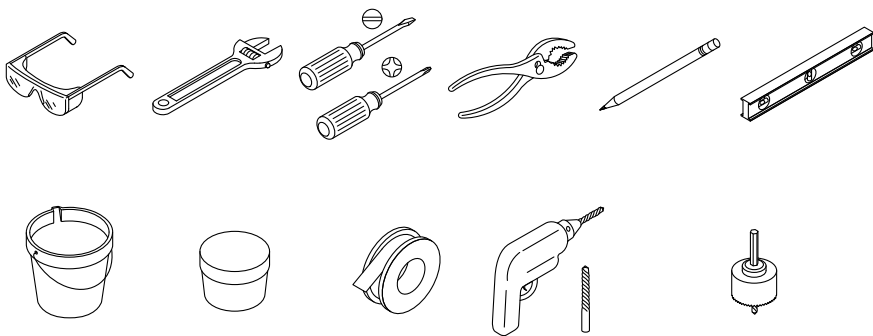
Need help? Contact our Customer Care Center.

- USA/Canada: 1-800-4KOHLER (1-800-456-4537)
- Mexico: 001-800-456-4537
- For service parts, visit kohler.com/serviceparts.
- For care and cleaning, visit kohler.com/clean.
- Patents: kohlercompany.com/patents

Warranty

This product is covered under the **KOHLER® Electronic Faucets, Valves, and Controls Five-Year Limited Warranty**, found at kohler.com/warranty. For a hardcopy of warranty terms, contact the Customer Care Center.

Tools



Plumbers Putty Sealant Tape 1/8" Drill Bit 1-1/4" to 1-1/2" Hole Bit

Before You Begin



WARNING: When using electrical products, basic precautions should always be followed, including the following:



DANGER: Risk of electric shock. Connect only to a circuit protected by a Ground-Fault Circuit-Interrupter (GFCI)*.



WARNING: Risk of electric shock. Grounding is required. A qualified electrician should make all electrical connections.



WARNING: Risk of electric shock. Disconnect the power before servicing.



WARNING: Risk of injury or property damage. Read all instructions thoroughly before beginning installation.



CAUTION: Risk of fresh water contamination. This faucet contains back-siphonage protection. To prevent water contamination, do not remove any internal components.



CAUTION: Risk of product damage. This product contains sensitive electronic components. Do not store open containers of chemical or cleaning products near this product. Cleaning rags or sponges must be rinsed with fresh water before storage.

*Outside North America, this may be known as a Residual Current Device (RCD).

Provide a constant unswitched 120 VAC electrical outlet located below the sink within 5' (1.5 m) of the control box.

Follow all local plumbing and building codes.

Turn OFF the water supplies.

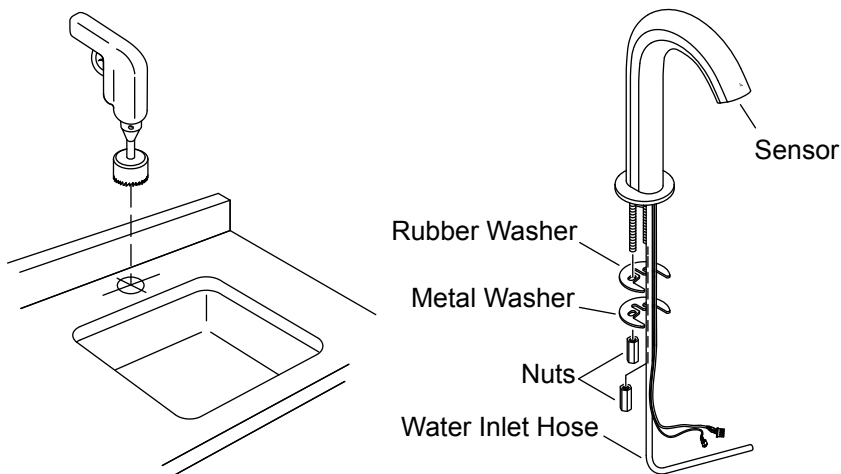
This faucet is for a single-hole bathroom sink.

For new installations, install the faucet and drain to the sink before installing the sink.

The faucet shown in this guide may differ from your actual product. The installation steps still apply.

In order for this faucet to function properly, install the faucet so the sensor points directly toward the user.

1. Faucet Installation



NOTE: Before drilling the mounting hole, use the following dimensions for proper placement:

Dimensional Requirements

A 1-1/4" (32 mm) minimum to 1-1/2" (38 mm) maximum diameter mounting hole is required.

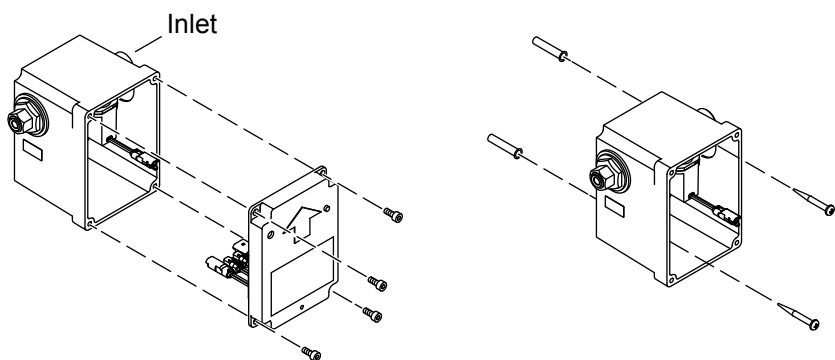
A minimum distance of 1-3/4" (44 mm) is required between the back of the spout and the wall to allow access to the screw.

A 1-1/8" (29 mm) maximum distance is required between the sink bowl edge and the base of the spout.

Install the Faucet

- ☐ Determine the mounting-hole location.
- ☐ Drill a hole through the mounting surface according to the surface manufacturer's instructions.
- ☐ Insert the spout with water inlet hose and studs through the mounting hole.
- ☐ From under the sink, install the rubber washer and the metal washer onto the studs.
- ☐ Thread the two nuts onto the studs until the faucet is secure.

2. Install the Control Box

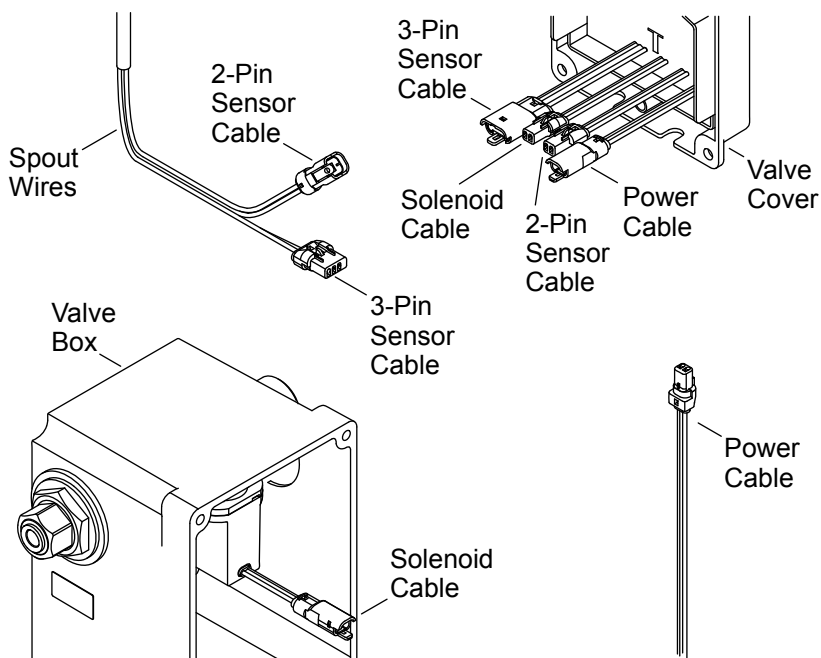


NOTE: Verify that the hose will reach the supply stop by attaching the flex hose to the control box inlet.

NOTE: Refer to the specification sheet to determine the control box installation location.

- ☐ Verify that the sensor cable is below the countertop.
- ☐ Unthread the control box screws to remove the cover.
- ☐ Drill 1/8" (3 mm) pilot holes.
- ☐ Use the standard wall anchors (provided) depending on your wall material.
- ☐ Attach the control box to the wall with the arrow pointing upward. Secure with the two screws (provided).

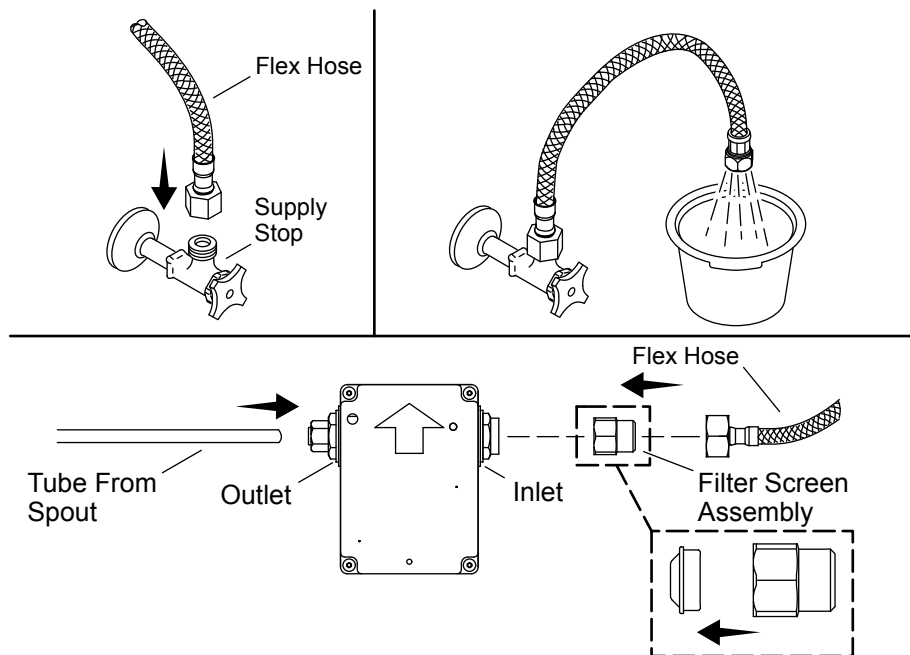
3. Connect the Control Box



IMPORTANT! The control box cover has slots for the spout tube and cables. Use care not to pinch the tube or cables when installing the cover.

- ☐ Connect the 3-pin sensor cable from the valve cover to the 3-pin sensor cable from the spout (red, white, and green cables).
- ☐ Connect the solenoid cable from the valve cover to the solenoid cable from the valve box (red and green cables).
- ☐ Connect the 2-pin sensor cable from the valve cover to the 2-pin sensor cable from the spout (orange and black cables).
- ☐ Loosely secure the cover to the control box for future access.

4. Connect the Supplies



Inlet Connections

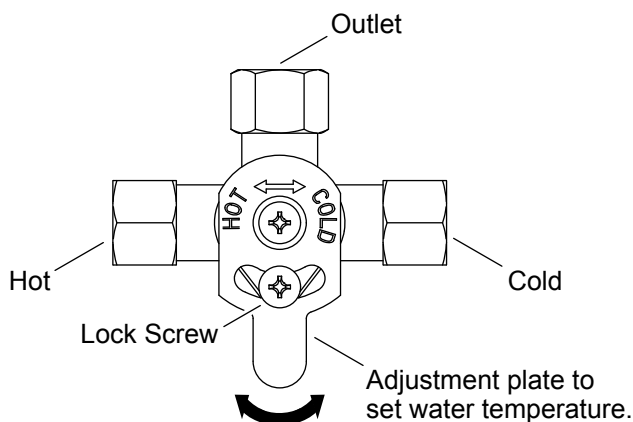
- ☐ Connect the flex hose to the supply stop.
- ☐ Place a bucket under the supply stop and turn ON the water supply.
- ☐ Slowly open the supply stop to flush debris.
- ☐ Turn OFF the water.
- ☐ Remove and discard the cap from the filter screen assembly.
- ☐ Connect filter screen assembly to control valve inlet.
- ☐ Connect the flex hose to filter screen assembly.

Outlet Connections

- ☐ Verify that the tube from the spout is the appropriate length to reach the control box. Cut the tube if necessary. Remove any burrs and sharp edges.

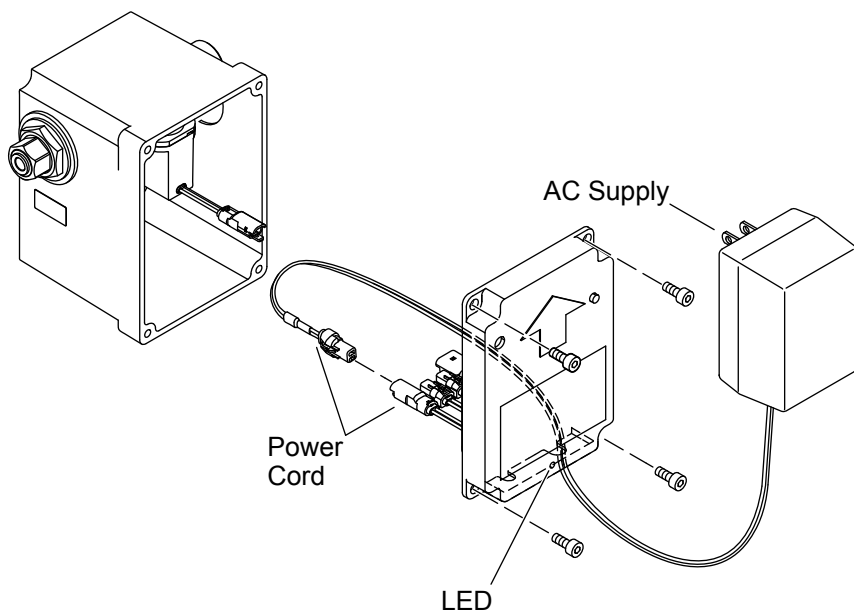
- ☐ Insert the tube into the fitting (control box outlet end) until the tube stops.
- ☐ Verify that the tube is secure.

5. Install the Mixing Valve (If Included)



- ☐ If a mixing valve is included with your product, connect the water outlet hose to the control box outlet.
- ☐ Attach the supply hose to the control box inlet and outlet of mixing valve.
- ☐ Use a 3/8" compression connection (provided) to attach the cold supply to the mixing valve cold inlet end (marked cold on the adjustment plate).
- ☐ Use a 3/8" compression connection (provided) to attach the hot supply to the mixing valve hot inlet end (marked hot on the adjustment plate).
- ☐ Loosen the lock screw and adjust the temperature by rotating the adjustment plate.
- ☐ Retighten the lock screw.

6. Install the AC Single Supply



IMPORTANT! Verify that you are following the correct power system installation based on your model number. For a multi-output AC supply power unit installation, refer to "Install AC Multi-Output Supply". For a hard wire power installation, refer to "Hard Wire Installation".

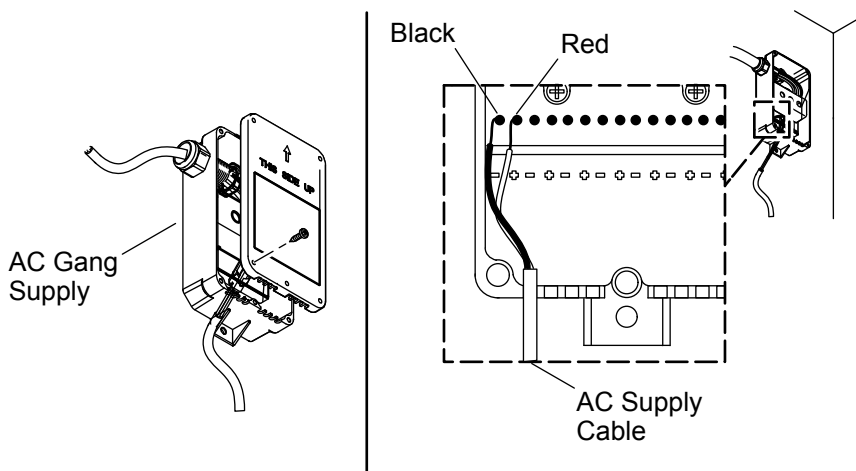
- ☐ Unthread the control box screws to remove the control box cover.
- ☐ Connect the power cords.
- ☐ Plug the AC supply into the wall outlet.
- ☐ Secure any excess wire under the deck.
- ☐ Secure the control box cover to the control box.

IMPORTANT! The area in front of the sensor must be free of objects during the 2 minute learning cycle or the faucet may not function properly.

NOTE: When the faucet is initially connected to an AC or DC power source, the LED will flash to indicate the sensor detection range is auto-adjusting.

- ☐ Allow 2 minutes for the sensor to cycle through the automatic sensing distance.

7. Install the AC Multi-Output Supply



- ☐ Mount the AC supply under the deck using the two screws provided. Orient as shown.
- ☐ Remove the cover.
- ☐ Connect the faucet wire to the faucet. Maintain a drip loop when connecting.
- ☐ If needed, cut and strip the AC supply wires to length.
- ☐ Connect the stripped ends to the bottom terminal block in the supply box.
- ☐ Secure the terminal box cover to the terminal box.

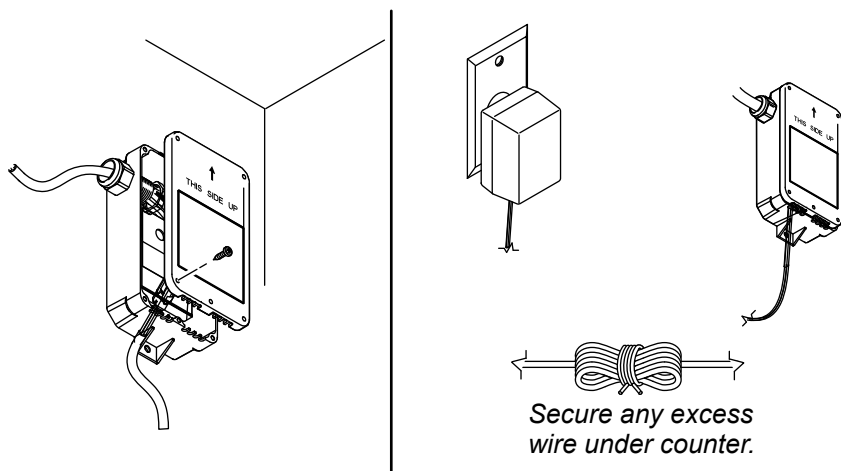
NOTE: If a hard wired installation is required, refer to "Hard Wire Installation".

- ☐ Plug the AC supply into an unswitched 120 VAC electrical outlet.
- ☐ Secure any excess wire under the deck.

IMPORTANT! The area in front of the sensor must be free of objects during the 2 minute learning cycle or the faucet may not function properly.

- ☐ Allow 2 minutes for the sensor to cycle through the automatic sensing distance.

8. Hard Wire Installation



WARNING: Risk of electric shock. Disconnect the power before performing the following procedures.

- ☐ Loosen the terminal block screws and remove the wires from the top terminal block.
- ☐ Loosen the outside nut of the strain relief and remove the power cord.
- ☐ Put the supply wires through the strain relief and connect to the top terminal block.

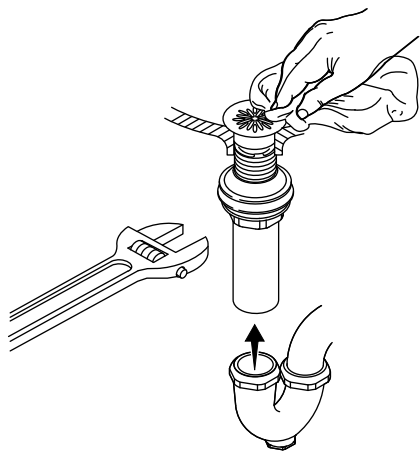
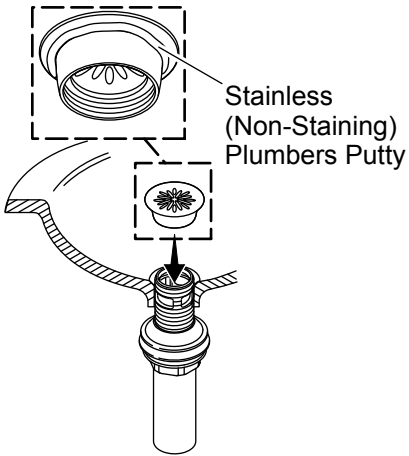
NOTE: If a hard wired installation is required, the strain relief may need to be replaced depending on wire used.

- ☐ Tighten the nut on the strain relief.
- ☐ Secure the terminal box cover to the terminal box.
- ☐ Turn on the AC supply power.
- ☐ Secure any excess wire under the deck.

IMPORTANT! The area in front of the sensor must be free of objects during the 2 minute learning cycle or the faucet may not function properly.

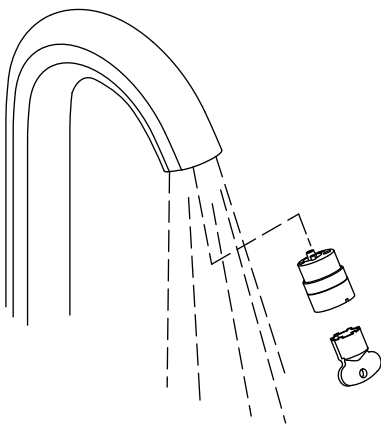
- ☐ Allow 2 minutes for the sensor to cycle through the automatic sensing distance.

9. Install the Drain



- ☐ Disassemble the drain.
- ☐ Apply plumbers putty to the underside of the flange and attach.
- ☐ Apply thread sealant tape to the drain pipe threads. Tighten the nut.
- ☐ Connect the trapway. Wipe away excess plumbers putty.

10. Complete the Installation



NOTE: Avoid the area in front of the sensor for 2 minutes after connections are complete. The sensor will not function correctly if it is triggered in the first 2 minutes. Disconnect and reconnect the power to reset the sensor.

NOTE: The faucet is supplied with an aerator key to remove the aerator for cleaning.

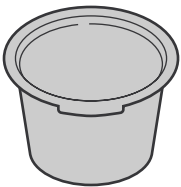
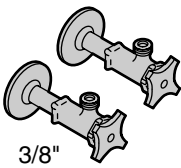
- ☐ Turn ON the water supplies and flush hot and cold water for 1 minute to remove any debris.

Troubleshooting

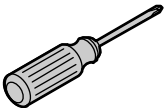
This troubleshooting guide is for general aid only. For service and installation issues or concerns, call 1-800-4KOHLER.

Symptoms	Probable Cause	Recommended Action
1. No water flow.	A. No power supply or wrong connection. B. Object in sensing range. C. Sensor eyes are dirty.	A. Check the power supply and connection. B. Remove the object. C. Wipe the sensor eyes with a damp soft cloth. Wipe dry with a dry soft cloth.
2. Low flow.	A. Supply pressure is low. B. Aerator is plugged.	A. Check incoming water pressure. Pressure should be at least 20 psi (137 kPa). B. Remove the aerator and clean it. For calcium/mineral deposits, soak the aerator plastic insert in a 50:50 mixture of vinegar and water. Soak only the insert and no other components.
3. Constant water flow.	A. Solenoid is not working.	A. Order and install a new solenoid assembly.
4. Sporadic water flow.	A. The faucet is angled incorrectly to deck or misaligned with user area. B. The wires are pinched or damaged.	A. Verify that the faucet is mounted according to the installation directions. Verify that the faucet is installed in a position that is above the rim of the sink. B. Remove the spout and verify that the wires are tucked inside the spout before reassembling.

Symptoms	Probable Cause	Recommended Action
5. Sensor flashes once approximately every 2 seconds. There is no water flow.	A. The AC connection is not installed correctly.	A. Reconnect the AC transformer connection.

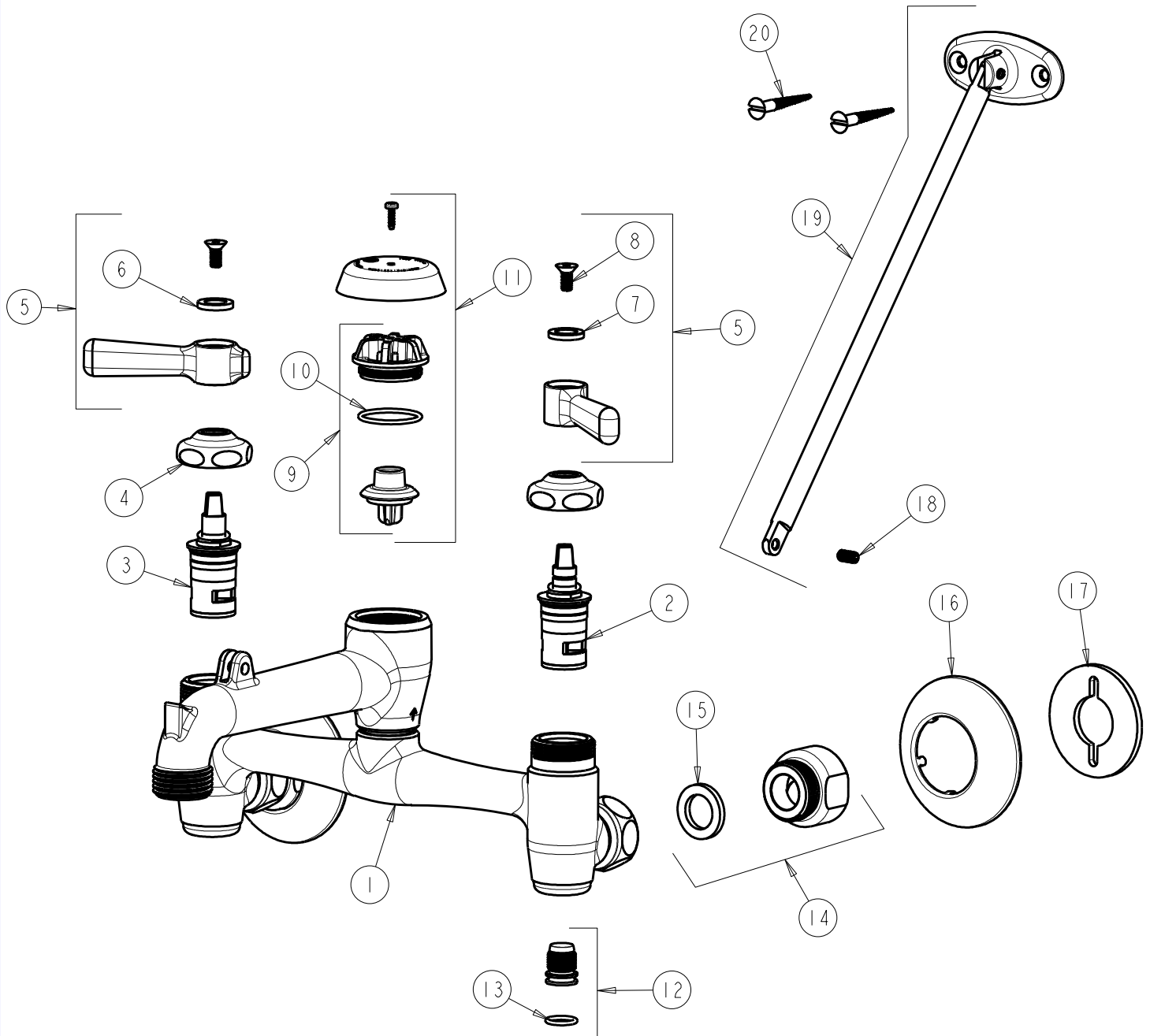


Bucket
Seau
Cubeta



Phillips Screwdriver
Tournevis Phillips
Destornillador Phillips

CAUTION: Risk of fresh water contamination. This faucet contains back-siphonage protection. To prevent water contamination, do not remove any internal components from this faucet. ATTENTION: Risque de contamination d'eau fraîche. Ce robinet contient une protection de siphon anti-retour. Pour éviter toute contamination d'eau, ne pas retirer les composants internes de ce robinet. PRECAUCIÓN: Riesgo de contaminación del agua. Esta grifería tiene protección de contrasifonaje. Para evitar la contaminación del agua, no retire ninguno de los componentes internos de esta grifería.	Important Information For new installations, assemble the faucet to the sink before installing the sink. Observe all local codes. Shut off the main water supply. Informations importantes Pour de nouvelles installations, installer le robinet sur l'évier avant d'installer ce dernier. Respecter tous les codes locaux. Couper l'alimentation d'eau principale. Información importante Para instalaciones nuevas, monte la grifería en el fregadero antes de instalar el fregadero. Cumpla con todos los códigos locales. Cierre el suministro principal de agua.	1 Remove the outlet connector for decks more than 1/2" (13 mm) thick. Retirer le connecteur de sortie pour les comptoirs d'une épaisseur supérieure à 1/2" (13 mm). Retire el conector de salida para cubiertas de espesor mayor de 1/2" (13 mm). Tube Tube Tubo Tabs Languettes Lengüetas	2 Insert the O-ring into the groove of the faucet base. Insérer le joint torique dans la rainure de la base du robinet. Inserte el arosello (O-ring) en la ranura de la base de la grifería.	3 Insert the faucet. Insérer le robinet. Inserte la grifería.
4 Assemble the washers and ring on the shank. Monter les rondelles et l'anneau sur le manche. Ensamble las arandelas y el anillo en el vástago. Fiber Washer Rondelle en fibres Arandela de fibra	5 Position the screws to the front and back. Tighten the screws. Placer les vis sur l'avant et l'arrière. Serrer les vis. Coloque los tornillos en el frente y atrás. Apriete los tornillos. 1/4" (6 mm)	6 Connect the supplies. Connecter les alimentations. Conecte los suministros.	7 Turn on the water supplies. Flush the hot and cold water for 1 minute. Ouvrir les alimentations d'eau. Purger l'eau chaude et froide pendant 1 minute. Abra los suministros de agua. Haga circular agua caliente y fría durante 1 minuto.	8 Slide the weight onto the pullout hose. Faire glisser le poids sur le tuyau escamotable. Deslice la pesa en la manguera extraíble.
9 Adjust the weight. Ajuster le poids. Ajuste la pesa. 17" (432 mm) Clamp Pince Abrazadera	10 Fully insert the connector onto the valve outlet. Connect the spray hose. Insérer entièrement le connecteur sur la prise du robinet. Connecter le tuyau du vaporisateur. Inserte completamente el conector en la salida de la válvula. Conecte la manguera del rociador.	11 Check for leaks. Rechercher la présence de fuites. Verifique que no haya fugas.	12 Check for smooth operation. Vérifier le bon fonctionnement. Verifique que funcione suavemente.	Faucet Maintenance: With water running, rub nozzles to dislodge debris. Entretien du robinet: Avec l'eau qui coule, frotter les buses pour déplacer les débris. Mantenimiento de la grifería: Con el agua fluyendo, frote las boquillas para desalojar los residuos.
Faucet Maintenance To improve the flow, disconnect the sprayhead, then clean the screen washer. Reassemble. Entretien du robinet Pour améliorer le débit, déconnecter la tête du vaporisateur, puis nettoyer la rondelle à grille. Réassembler. Mantenimiento de la grifería Para mejorar el flujo, desconecte la cabeza del rociador, luego limpie la arandela de rejilla. Vuelva a ensamblar.				



ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	-----	VALVE BODY (NOT SOLD SEPERATELY)	11	892-402KJKABNF	KIT, VACUUM BREAKER ASSEMBLY
2	1-099XKJKABNF	RH CERAMIC CARTRIDGE 1/4	12	897-014KJKRBF	INTEGRAL STOP STEM ASSEMBLY
3	1-100XKJKABNF	LH CERAMIC CARTRIDGE 1/4	13	1104-007JKABNF	O RING
4	1-214JKCP	CAP	14	897-012JKRCF	ARM ASSEMBLY (INCLUDES WASHER)
5	369-PRJKCP	HANDLE, 2-3/8 LEVER (PAIR)	15	1-011JKABNF	WASHER, .97 X .62 X .12
6	633-023JKNF	INDEX BUTTON (RED)	16	633-201JKCP	WALL FLANGE
7	633-123JKNF	INDEX BUTTON (BLUE)	17	807-112JKNF	WASHER
8	420-020JKNF	SCREW, 1/8 FLAT HEX HEAD X 1/2	18	665-116JKNF	SET SCREW
9	892-302KJKABNF	VACUUM BREAKER REPAIR KIT	19	897-013KJKCP	BRACE ROD ASSEMBLY
10	80-007JKABNF	O RING 0.989 X .070	20	173-006JKCP	FLAT HEAD WOOD SCREW

Installation Instructions

Touchless Kitchen Faucet

Record your model number:

Noter le numéro de modèle:

Anote su número de modelo: _____

Français, page 17

Español, página 34

KOHLER®

Thank You for Choosing KOHLER

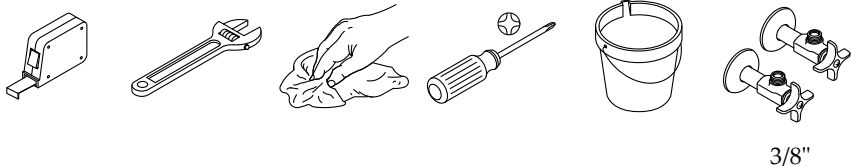
Need help? Contact our Customer Care Center.

- USA/Canada: 1-800-4KOHLER (1-800-456-4537) Mexico: 001-800-456-4537
- Service parts: kohler.com/serviceparts
- Care and cleaning: kohler.com/clean
- Patents: kohlercompany.com/patents

Warranty

This product is covered under the **KOHLER® Electronic Faucets, Valves, and Controls Five-Year Limited Warranty**, found at kohler.com/warranty. For a hardcopy of warranty terms, contact the Customer Care Center.

Tools and Materials



Plus:

- Unswitched Electrical Outlet
- Fasteners

Important Information



WARNING: When using electrical products, basic precautions should always be followed, including the following:



DANGER: Risk of electric shock. Connect only to a circuit protected by a Ground-Fault Circuit-Interrupter (GFCI)*.



WARNING: Risk of electric shock. Grounding is required. A qualified electrician should make all electrical connections.



WARNING: Risk of electric shock. Disconnect the power before servicing.



WARNING: Risk of injury or property damage. Read all instructions thoroughly before beginning installation.



CAUTION: Risk of fresh water contamination. This faucet contains back-siphonage protection. To prevent water contamination, do not remove any internal components.



CAUTION: Risk of property damage. The faucet spout contains a magnet. Do not allow items susceptible to electromagnetic damage to come into close proximity to the spout.



CAUTION: Risk of product damage. This product contains sensitive electronic components. Do not store open containers of chemical or cleaning products near this product. Cleaning rags or sponges must be rinsed with fresh water before storage.

IMPORTANT! Do not use a switch-controlled electrical outlet (typically used for garbage disposals) to provide power to the faucet.

Follow all local plumbing, building, and electrical codes.

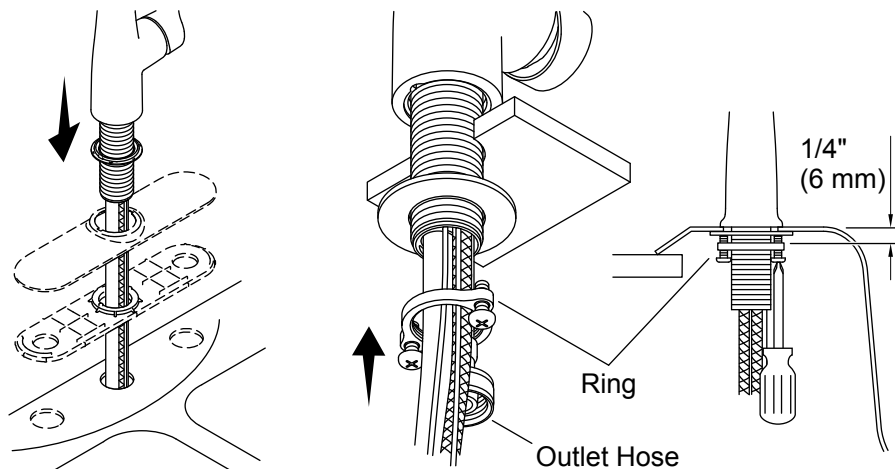
Provide a constant unswitched 120 VAC electrical outlet located below the sink within 5' (1.5 m) of the control box.

For uneven mounting surfaces (such as tile grout lines), apply a suitable sealant under the faucet. **Do not use petroleum-based sealant.**

Class 1 laser product: Complies with 21 CFR 1040.10 and 1040.11.

*Outside North America, this may be known as a Residual Current Device (RCD).

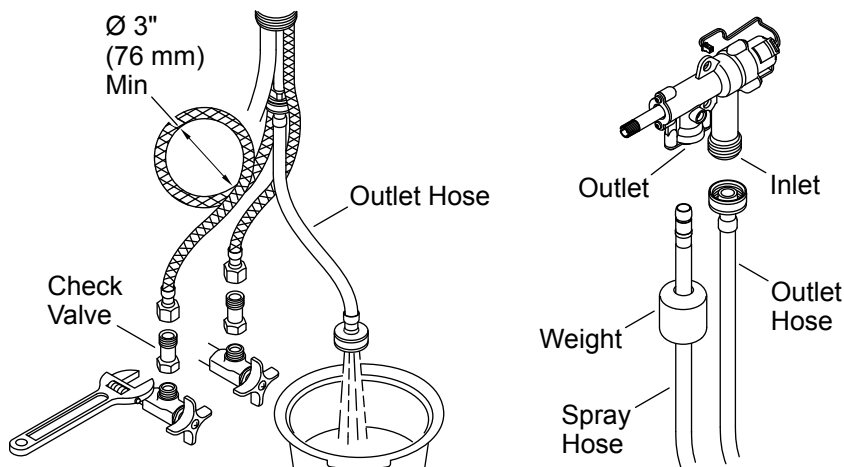
1. Install the Faucet



NOTE: Handle orientation is designed to be on the right.

- ☐ Turn OFF the water supplies.
- ☐ For three-hole sinks, install an escutcheon.
- ☐ Thread the screws into the ring 1/4" (6 mm) past the surface.
- ☐ Insert the faucet through the mounting surface with the handle on the right.
- ☐ Slide the washer and ring over the outlet hose, then feed the supply hoses and wires through the washer and ring.
- ☐ Thread the ring onto the shank until the washer contacts the underside of the sink.
- ☐ Adjust the ring to align the screws with the front and back of the faucet.
- ☐ Securely tighten the screws.

2. Connect the Supplies



CAUTION: Risk of restricted water flow and product damage. The supply hoses must not be taut, kinked, or twisted. If the supply hoses must be coiled, maintain an inside diameter of 3" (76 mm).

Connect the Water Supplies

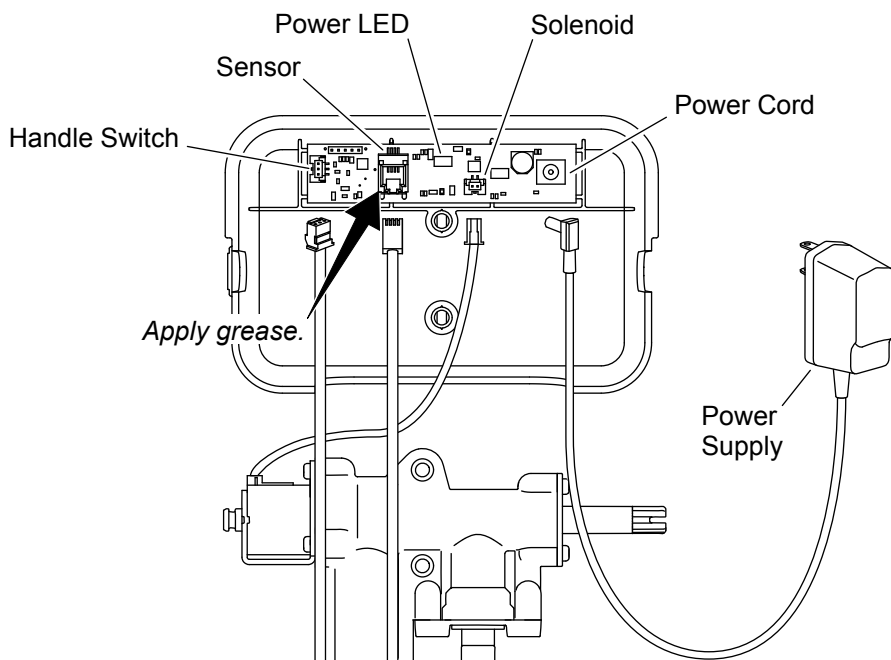
- ☐ Assemble a check valve to each supply.
- ☐ Connect and tighten the supply hoses to the check valves.
- ☐ Place a bucket under the outlet hose.
- ☐ Turn ON the water supplies.
- ☐ Flush hot and cold water for 1 minute to remove any debris.
- ☐ Connect the outlet hose to the solenoid inlet.

Connect the Spray Hose

NOTE: The weight must be installed onto the spray hose to act as a pull stop and to prevent kinking damage.

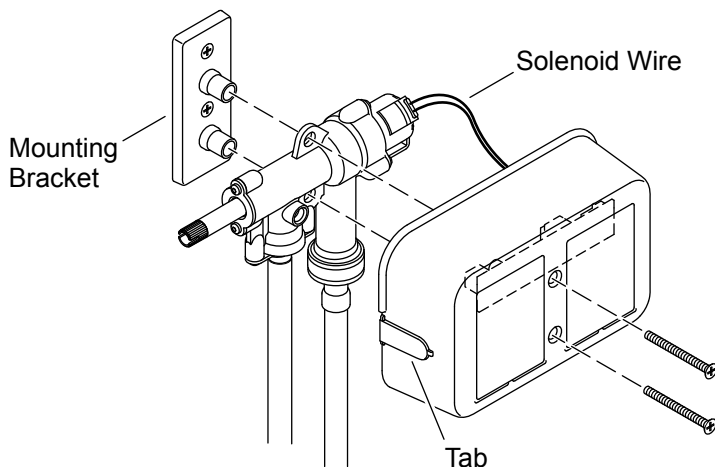
- ☐ Remove the protective cap.
- ☐ Slide the weight onto the spray hose.
- ☐ Connect the spray hose to the solenoid outlet.

3. Connect the Wires



- ☐ Apply grease (provided) to the sensor socket located on the circuit board inside the cover. This will provide additional corrosion protection.
- ☐ Connect the handle switch wire from the faucet to the handle switch connector on the circuit board.
- ☐ Connect the sensor wire from the faucet to the sensor connector on the circuit board.
- ☐ Connect the power cord to the power cord connector on the circuit board.
- ☐ Connect the solenoid wire to the solenoid connector on the circuit board.
- ☐ Plug the power supply into an unswitched 120 VAC outlet. The power LED on the circuit board will illuminate.
- ☐ Test activation of the sensor. Refer to the “Faucet Operation” section.

4. Install the Solenoid



CAUTION: Risk of restricted waterflow. The outlet hose must not be taut or kinked when installed. Locate the solenoid valve within 7" (178 mm) to 8" (203 mm) from the faucet centerline.

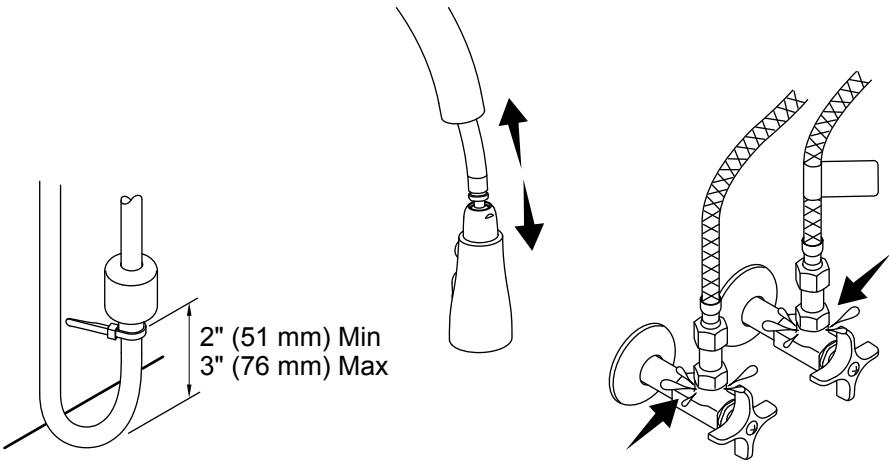
NOTE: Allow adequate clearance for servicing.

NOTE: The mounting bracket should be secured with two suitable fasteners (not supplied) based on the type and thickness of the cabinet or wall material.

NOTE: The solenoid may be positioned to the right or left. Remove the appropriate tab on the cover.

- ☐ Position the mounting bracket within 7" (178 mm) to 8" (203 mm) from the faucet centerline.
- ☐ Fasten the mounting bracket vertically to the cabinet or wall.
- ☐ Position the solenoid and cover on the mounting bracket.
- ☐ Secure the solenoid and cover to the mounting bracket using the two screws provided.

5. Complete the Installation



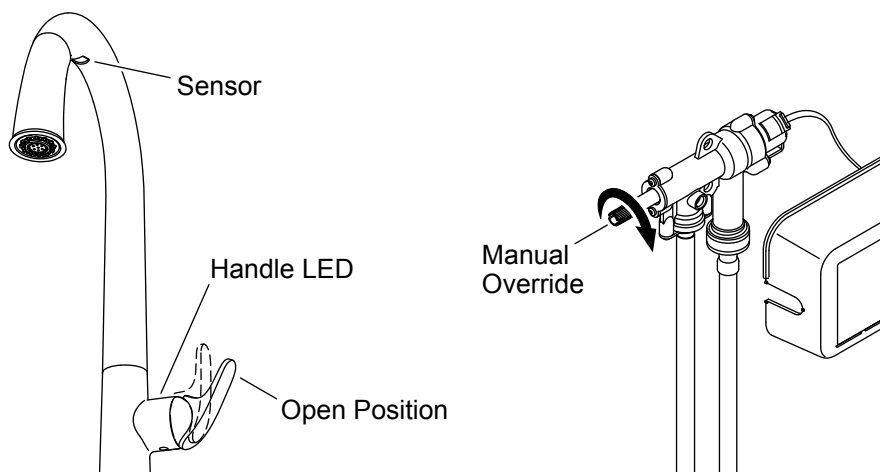
Position the Weight

- ☐ Position the weight between 2" (51 mm) and 3" (76 mm) from the cabinet floor.
- ☐ Secure the cable tie around the spray hose just below the weight.
- ☐ Extend and retract the spray hose to check for smooth operation.

Check for Leaks

- ☐ Turn ON the water supplies.
- ☐ Check all connections for leaks.
- ☐ Test the faucet for proper operation. Refer to the "Faucet Operation" section.

Faucet Operation



NOTE: Some objects that are clear and certain colors are not detectable by the sensor. Always use your hand for sensor testing.

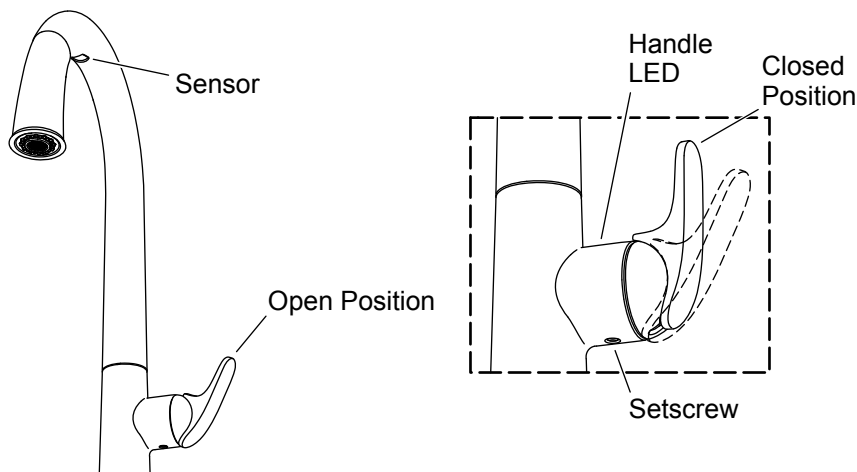
- ☐ Rotate the handle outward to the open position to start water flow. The handle LED will illuminate to indicate that the sensor is functioning.
- ☐ Adjust the handle to the desired water temperature.
- ☐ Wave your hand under the sensor to turn OFF the water.
- ☐ Wave your hand under the sensor again to restart the water flow.
- ☐ If needed, refer to the “Handle LED Adjustment” section for more information.

NOTE: For extended periods of nonuse, return the handle to the closed (upright) position. The handle LED will turn OFF, indicating that water flow is not available.

Features

- ☐ **Handle LED:** Illuminates when the sensor is active.
- ☐ **Power LED:** Indicates that there is power to the circuit board.
- ☐ **Automatic shut-off:** After 4 minutes of inactivity, the water will automatically shut OFF.
- ☐ **Sensor override:** In the event of power loss, bypass the sensor function by turning in the override feature on the solenoid valve. The faucet can then be operated manually.

Handle LED Adjustment

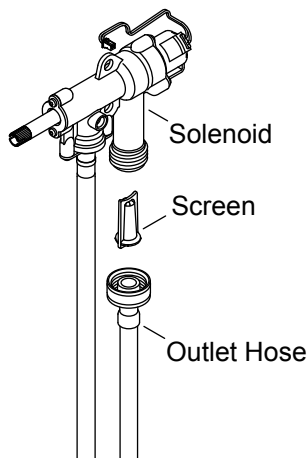
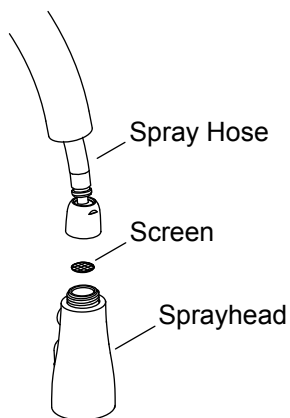


IMPORTANT! Do not apply upward pressure to the valve setscrew while making adjustments.

NOTE: The LED should turn ON as the handle is rotated open, and OFF when the handle is in the upright (closed) position. Use a 5/64" hex wrench to adjust the valve setscrew as needed.

- ☐ **LED is ON when the handle is closed:** Tighten the valve setscrew until the LED turns OFF. Then tighten the setscrew an additional 1/4 turn.
- ☐ **Handle does not return to the upright position:** Loosen the valve setscrew until the handle rotates to the full upright (closed) position and the LED turns ON. Then tighten the setscrew until the LED turns OFF, plus an additional 1/4 turn.
- ☐ **Water does not fully shut off:** Loosen the valve setscrew until the handle rotates to the full upright (closed) position and the LED turns ON. Tighten the setscrew until the LED turns OFF, plus an additional 1/4 turn.

Cleaning the Screens



Sprayhead Screen

- ☐ Turn the handle to the closed position.
- ☐ Disconnect the nut at the end of the spray hose.
- ☐ Remove and clean the screen inside the spray hose.
- ☐ Reinsert the screen and reconnect the sprayhead.

Solenoid Inlet Screen

- ☐ Turn the handle to the closed position.
- ☐ Disconnect the outlet hose from the solenoid.
- ☐ Remove and clean the inlet screen inside the solenoid.
- ☐ Reinstall the inlet screen and reconnect the outlet hose.

Troubleshooting



CAUTION: Risk of property damage. This product contains sensitive electronic components. Use care not to damage pins and connectors during troubleshooting.



CAUTION: Risk of property damage. Do not insert anything other than the sensor wire into the sensor wire connector (phone jack) on the circuit board.

This troubleshooting guide is for general aid only. For service and installation issues or concerns, call 1-800-4KOHLER.

Faucet Troubleshooting

Symptoms	Probable Cause	Recommended Action
1. No water flow.	A. The supply stops are closed. B. Handle is in the closed position. C. The hot and/or cold supply hose is kinked. D. The outlet hose is kinked. E. Handle LED is not lit. F. Power LED on circuit board is not lit. G. One or more screens are clogged.	A. Confirm that the supply stops are open. B. Rotate the handle to the open position. Refer to the “Faucet Operation” section. C. Confirm that the supply hoses are not kinked. If coiled, maintain an inside diameter of 3" (76 mm). D. Confirm that the solenoid valve is within 7" (178 mm) to 8" (203 mm) from the faucet centerline. E. Refer to the “Handle Switch Troubleshooting Table.” F. Refer to the “Sensor Troubleshooting Table.” G. Refer to the “Cleaning the Screens” section.

Symptoms	Probable Cause	Recommended Action
2. Low water flow.	A. The supply stops are partially closed. B. Handle is partially closed. C. The hot and/or cold supply hose is kinked or twisted. D. The outlet hose is kinked. E. One or more screens are clogged. F. Cracked diaphragm.	A. Confirm that the supply stops are fully open. B. Rotate the handle to the full open position. C. Confirm that the supply hoses are not kinked or twisted. If coiled, maintain an inside diameter of 3" (76 mm). D. Confirm that the solenoid valve is within 7" (178 mm) to 8" (203 mm) from the faucet centerline. E. Refer to the "Cleaning the Screens" section. F. Replace the solenoid valve assembly.
3. Poor spray pattern.	A. The spray nozzles are clogged.	A. Rub your finger over the nozzles with water running to dislodge debris.
4. Power LED is not lit.	A. No power to the circuit board. B. Power cord is plugged into a switched outlet.	A. Check the power supply connections to the circuit board. B. Plug the power cord into an unswitched 120 VAC outlet (test the outlet with a radio or other device). Confirm that the power LED illuminates.
5. Water drips or trickles when faucet is not in use.	A. Manual override is partially engaged.	A. Turn the manual override fully clockwise; then turn counterclockwise until the water drip stops.

Solenoid Troubleshooting

Symptoms	Probable Cause	Recommended Action
1. Water leaks from the solenoid valve.	A. Hose connections are not secure. B. Internal leak.	A. CAUTION: Risk of personal injury or product damage. Turn OFF the main power and water supply. Check all connections. Make adjustments as needed. B. Replace the solenoid valve assembly.
2. No audible “click” when solenoid is activated.	A. Loose solenoid wire connection. B. Solenoid valve is not functioning.	A. Check solenoid wire connection to the circuit board. B. Replace the solenoid valve assembly.

Handle Switch Troubleshooting

Symptoms	Probable Cause	Recommended Action
1. Handle LED is lit when the handle is closed.	A. Valve setscrew needs adjustment.	A. Refer to the “Handle LED Adjustment” section.
2. Handle does not return to the upright position.	A. Valve setscrew needs adjustment.	A. Refer to the “Handle LED Adjustment” section.
3. Water does not fully shut off.	A. Valve setscrew needs adjustment.	A. Refer to the “Handle LED Adjustment” section.
4. Handle LED does not illuminate when the handle is rotated open.	A. Loose handle switch wire connection. B. Circuit board is not functioning correctly.	A. Check handle switch wire connection to the circuit board. B. Replace the cover assembly.

Sensor Troubleshooting

Symptoms	Probable Cause	Recommended Action
1. Intermittent sensor operation.	A. Debris on the sensor lens. B. Sensor is detecting steam.	A. Use mild soap and water to gently remove debris from the sensor lens. B. Rotate the spout away from the steam.
2. Handle LED is lit, but power LED is not.	A. Loose sensor wire connection. B. Debris on the sensor wire connector. C. Circuit board is not functioning.	A. Check sensor wire connection to the circuit board. B. At the circuit board, gently disconnect, clean, and reconnect the sensor wire connector. C. Replace the cover assembly.

Compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful 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 instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful 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 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.

This Class B digital apparatus complies with Canadian ICES-003.

WATER COOLER

ELKAY®

INSTALLATION & USE MANUAL

Manual de instalación y uso

Manuel d'installation et d'utilisation

EZ™ & LZ™ Series Bottle Filling Stations & Coolers

EZ™ & LZ™ Serie Botella Bombas y Enfriadores

EZ™ & LZ™ Stations de Remplissage de Bouteille Série et Refroidisseurs

RATED FOR COMMERCIAL USE ONLY

CLASIFICADO PARA USO COMERCIAL SOLAMENTE

Conçus pour l'usage commercial seulement



This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

Este aparato puede ser utilizado por niños de 8 años y mayores y las personas con capacidades físicas, sensoriales o mentales reducidas o falta de experiencia y conocimiento si han sido supervisados o instruidos acerca del uso del aparato de una manera segura y comprenda los peligros involucrados. Los niños no deben jugar con el aparato. Limpieza y mantenimiento del usuario no serán tomadas por los niños sin supervisión.

Cet appareil peut être utilisé par des enfants âgés de 8 ans et plus et des personnes avec des capacités ou le manque d'expérience et de connaissances physiques, sensorielles ou mentales réduites si elles ont été supervisées ou instructions concernant l'utilisation de l'appareil d'une manière sûre et comprendre les dangers impliquer. Les enfants ne doivent pas jouer avec l'appareil. Nettoyage et entretien de l'utilisateur ne sont pas fabriqués par des enfants sans surveillance.

Patent zurn-elkay.com/patents

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

⚠ ADVERTENCIA: Cáncer y daño reproductivo - www.P65Warnings.ca.gov

⚠ AVERTISSEMENT: Cancer et effets néfastes sur la reproduction - www.P65Warnings.ca.gov

Note: Danger! Electric shock hazard. Disconnect power before servicing unit.

Nota: peligro! Peligro de descarga eléctrica. Desconecte antes de reparar la unidad.

Remarque : Danger ! Risque d'électrocution. Débrancher avant de réparer l'appareil.

Pictured is unit only without bottle filler.

En la foto, la unidad sólo sin relleno botella.

Sur la photo, est une unité seulement sans remplissage de la bouteille.

Uses HFC-134A refrigerant
Usa refrigerante HFC-134A
Utilise du fluide frigorigène HFC-134A

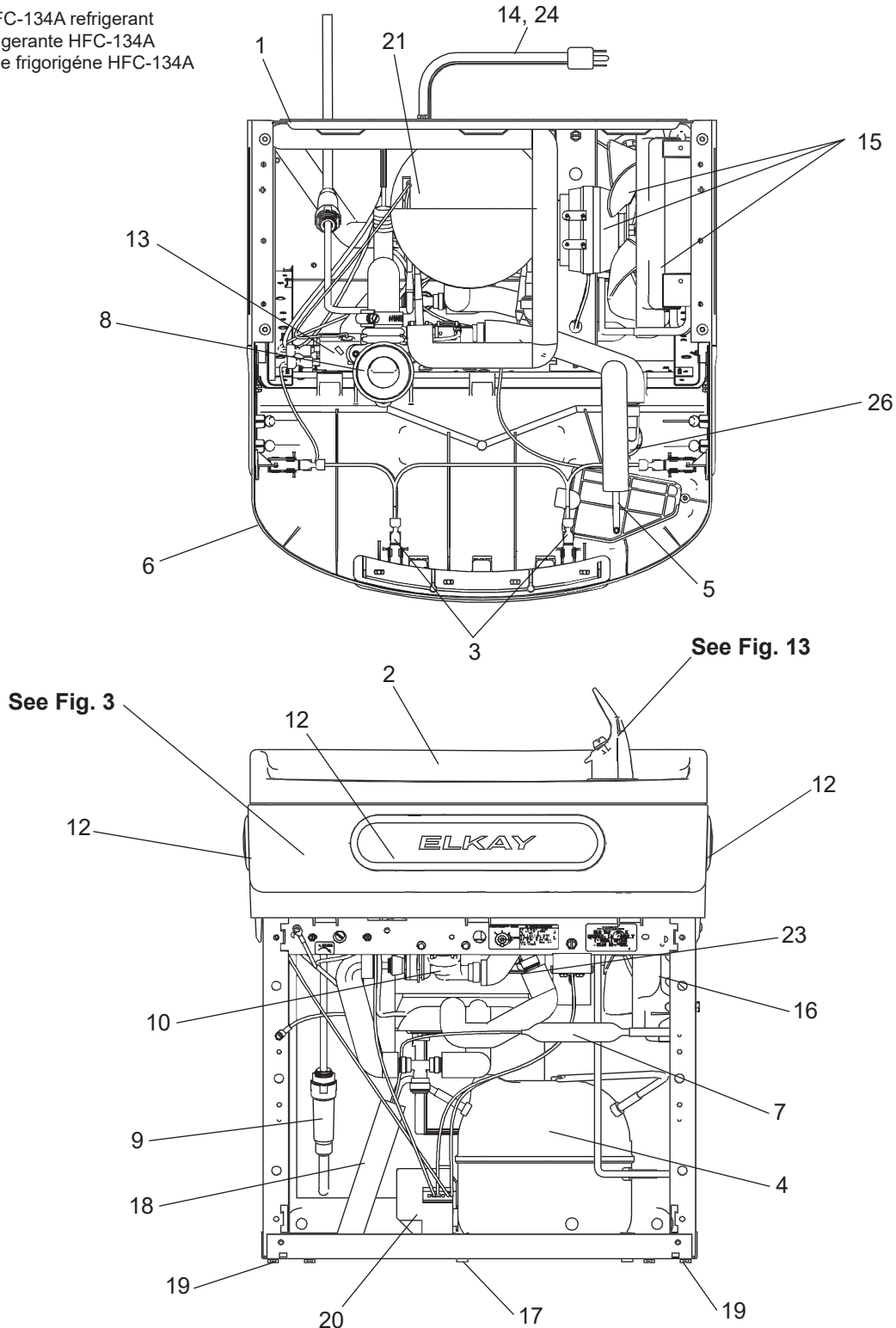
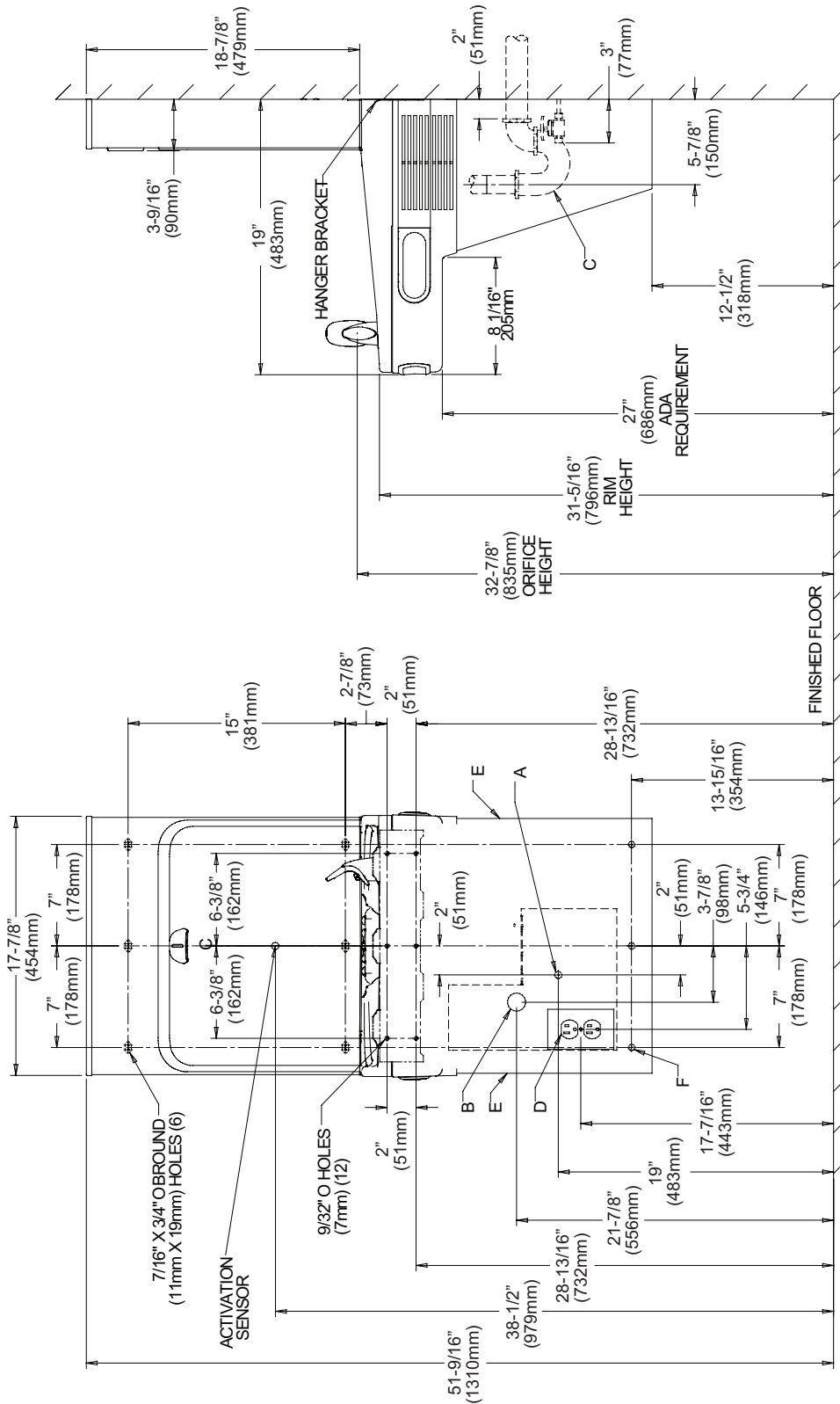


Fig. 1



HANGER BRACKETS INSTALLATION

- 1) Remove hanger brackets fastened to back of cooler by removing one (1) screw.
 - 2) Mount the hanger brackets as shown in Figure 2.
- NOTE:** Hanger Bracket **MUST** be supported securely. Add fixture support carrier if wall will not provide adequate support. Anchor hanger securely to wall using all six (6) 1/4 in. dia. mounting holes.

INSTALLATION OF COOLER

- 3) Hang the cooler on the hanger bracket. Be certain the hanger bracket is engaged properly in the slots on the cooler back as shown in Figure 2.
- 4) Remove the four (4) screws holding the lower front panel at the bottom of cooler. Remove the front panel by pulling straight down and set aside.
- 5) Connect water inlet line--See Note 4 of General Instructions.
- 6) Install trap. Remove the slip nut and gasket from the trap and install them on the cooler waste line making sure that the end of the waste line fits into the trap. Assemble the slip nut and gasket to the trap and tighten securely.

IMPORTANT: If it is necessary to cut the drain, loosen the screw at the black rubber boot and remove tube, check for leaks after re-assembly.

- 7) Install bottle filler per page (11).
- 8) Plug in electrical power. Unit must have electrical power to have water flow.

START UP**Also See General Instructions**

- 9) Stream height is factory set at 35 PSI. If supply pressure varies greatly from this, adjust screw located on the right knee clearance area. CW adjustment will raise stream and CCW adjustment will lower stream. For best adjustment, stream should hit basin approximately 6-1/2" (165mm) from bubbler on the downward slope of the basin.

NOTE: If continuous flow occurs at the end of the compressor cycle, turn cold control counterclockwise 1/4 turn.

- 10) Replace the front panel ensuring that the metal wrapper is secured inside of the upper shroud. Replace all four screws previously removed.

CLEANING

Warm, soapy water or mild household cleaning products can be used to clean the exterior panels of the EZ coolers. Extra caution should be used to clean the mirror finished stainless steel panels. They can be easily scratched and should only be cleaned with mild soap and water or Windex glass cleaner and a clean, soft cloth. Use of harsh chemicals or petroleum based or abrasive cleaners **will void the warranty**.

INSTALACIÓN DE SOPORTES PARA COLGAR

- 1) Retire el soporte fijador que se encuentra conectado a la parte posterior del enfriador sacando un (1) tornillo.
- 2) Monte el soporte fijador de la manera descrita en Fig. 2.

NOTA: Es necesario que el soporte fijador sea apoyado seguramente. Agregue un portador al soporte fijador si la pared no aporta soporte adecuado. Amarre el soporte colgante seguramente a la pared. Usando todos los seis (6) agujeros de montaje de ¼ pulg. (6.35 mm) de diám.

INSTALACIÓN DEL ENFRIADOR

- 3) Cuelgue el enfriador en el soporte colgante. Asegúrese que el soporte colgante está enganchado adecuadamente en las ranuras en la parte posterior del enfriador según descrito en Figura 2.
- 4) Retire los cuatro (4) tornillos que sujetan el panel frontal inferior en el pie del enfriador. Retire el panel frontal al jalarlo hacia abajo y póngalo al lado.
- 5) Conecte la tubería de entrada de agua – Consulte la Nota 4 de la Instrucciones Generales.
- 6) Instale el purgador. Retire la tuerca deslizante y el obturador del purgador e instálelos en la tubería de descarga del enfriador, asegurándose de que el extremo de la tubería de descarga encaje en el purgador. Ensamble la tuerca deslizante y el obturador en el purgador y apriete firmemente.

IMPORTANTE: Si llega a ser necesario cortar la tubería de descarga, aloje el tornillo en el fuelle negro de goma y retire la tubería, después del reensamblaje, compruebe que no haya pérdidas.

- 7) Instalación de llenado de la botella por página (11).
- 8) Enchufe la alimentación eléctrica.

INICIO**También consulte las Instrucciones Generales**

- 9) La altura del chorro viene predefinida de la fábrica en 35 psi. Si la presión de la fuente varía grandemente de esto, ajuste el tornillo situado en el lado izquierdo debajo de la barra del empuje ass'y. en la barra transversal. Un ajuste en el sentido de las manecillas del reloj alzarán al chorro y un ajuste en el sentido contrario a las manecillas del reloj bajará el chorro. Para lograr el mejor ajuste, el chorro debe caer al estanque aproximadamente un 6-1/2 pulg. (165 mm) del grifo en la inclinación hacia abajo del estanque.

NOTA: Si ocurre un flujo continuo al fin del ciclo del compresor, gire el control del agua fría una cuarta vuelta en el sentido contrario a las manecillas del reloj.

- 10) Reemplace el panel frontal asegurando que la envoltura metálica está bien sujeta dentro de la cubierta superior. Reemplace todos los cuatro tornillos previamente retirados.

LIMPIEZA

Se puede usar agua tibia enjabonada o un producto no abrasivo de limpieza para limpiar los paneles exteriores de los enfriadores EZ. Debe usar mucho cuidado al limpiar los paneles de acero inoxidable de acabado espejo. Es muy fácil rayarlos y únicamente debe limpiarse con jabón no abrasivo y agua o con el limpiador de vidrios Windex y un paño limpio y suave. El uso de productos químicos o limpiadores abrasivos o aquellos basados en petróleo **anulará la garantía**.

SUPPORTS DE CROCHET DE SUSPENSION INSTALLATION

- 1) Retirez le support de suspension fixé au dos du refroidisseur en retirant une (1) vis.
- 2) Montez le support de suspension comme indiqué dans la figure 2.

REMARQUE: Le support de suspension doit être accroché sûrement. Renforcez le soutien du mur par l'ajout d'un élément porteur fixe si le mur ne peut pas, à lui tout seul, offrir un soutien suffisant. Fixez le support au mur en utilisant des trous de fixation de 6 pouces ¼ de diamètre.

INSTALLATION DU REFROIDISSEUR

- 3) Pendez le refroidisseur au support de suspension. Assurez-vous que le support est correctement inséré dans les emplacements au dos du refroidisseur, comme indiqué dans la figure 2.
- 4) Retirez les four (4) vis maintenant en place le panneau frontal au bas du refroidisseur. Retirez le capot inférieur en tirant vers le bas et mettez-le de côté.
- 5) Reliez l'alimentation en eau — Référez-vous à la remarque 4 des Instructions Générales.
- 6) Mettez en place le siphon. Retirez l'écrou coulissant et le joint statique du siphon et installez-les sur la conduite résiduaire du refroidisseur en vérifiant bien que l'extrémité de la conduite résiduaire entre dans le siphon. Installez l'écrou coulissant et le joint statique au siphon et serrez fortement.

IMPORTANT: Au cas où il serait nécessaire de couper le drain, déserrez la vis située sur la gaine noire en caoutchouc et retirez le tube, puis vérifiez qu'il n'y a pas de fuites avant de remonter.

- 7) Installation de remplissage de bouteille par page (11).
- 8) Branchez l'alimentation électrique.

DEMARRAGE**Voir également le chapitre Instructions Générales**

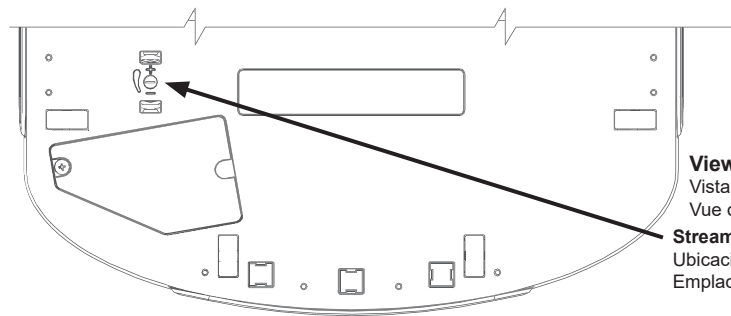
- 9) La pression de la vapeur a été réglée en usine à 35 psi. Si la pression d'approvisionnement change considérablement de ceci, ajustez la vis placée du côté gauche au-dessous de la barre de poussée ass'y. sur la barre transversale. Le réglage dans le sens des aiguilles d'une montre augmente le jet, et dans le sens inverse le diminue. Pour un meilleur réglage, le jet doit frapper le bassin à une distance d'environ 6 pouces et demi (165 mm) du barboteur sur la pente descendante du bassin.

REMARQUE: Si un flot continu se déclenche à la fin du cycle de compression, tournez le Contrôle de refroidissement d'un quart de tour dans le sens inverse des aiguilles d'une montre.

- 10) Remettez le panneau frontal en place en vérifiant que le couvre-joint métallique est bien installé à l'intérieur de l'enveloppe de protection supérieure. Révissez les four vis ôtées précédemment.

ENTRETIEN

Utiliser de l'eau tiède savonneuse ou des produits de nettoyage domestiques doux pour nettoyer les panneaux extérieurs des refroidisseurs EZ. Une prudence supplémentaire est requise lors du nettoyage du miroir ou des panneaux inox. Ces éléments peuvent se rayer facilement et doivent être uniquement nettoyés à l'aide de savon doux et d'eau ou de liquide nettoyant pour vitres Windex et d'un chiffon doux et propre. L'utilisation de produits chimiques corrosifs et de nettoyants abrasifs ou dérivés du pétrole **annulera la garantie constructeur**.



View of Underside of Basin Shroud
Vista de la parte inferior de la cuenca cubierta
Vue de dessous du bassin du Saint-Suaire

Stream Height Adjustment Location
Ubicación de ajuste de altura de corriente
Emplacement de réglage hauteur Stream

Service Instructions

Lower and Upper Shroud

To access the refrigeration system and plumbing connections, remove four screws from bottom of cooler to remove the lower shroud. To remove the upper shroud for access to the pushbars, regulator, solenoid valve or other components located in the top of the unit, remove lower shroud, disconnect drain, remove four screws from tabs along lower edge of upper shroud, unplug two wires and water tube.

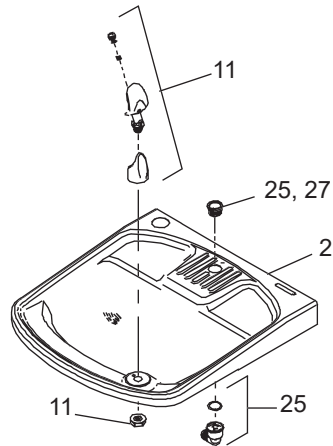
Bubbler

To remove the bubbler, first disconnect the power supply. The underside of the bubbler can be reached through the access panel on the underside of the upper shroud. Remove the access panel by removing the retaining screw. To remove the bubbler, loosen locknut from the underside of the bubbler and remove the tubing from the quick connect fitting per the Operation Of Quick Connect Fittings section in the General Instructions. After servicing, replace the access panel and retaining screw.

Switches Behind the Push Bar

The regulator in an EZ cooler is always held fully open by the use of a single regulator nut (See Fig. 3). Water is not dispensed until the pushbar is depressed to activate a switch which then opens a solenoid valve. When installing the regulator nut, the regulator spring must be depressed while turning the nut.

To remove sidebars, from the inside compress the flared tabs and pull out carefully. To reinstall side pushbars, the front of the pushbar is inserted first. While keeping the switch depressed, snap the rear of the pushbar into position.



Atienda a Instrucciones

Las cubiertas inferiores y superiores

Para obtener acceso al sistema de refrigeración y las conexiones de plomería, retire cuatro tornillos de la parte inferior del enfriador para así poder retirar la cubierta inferior. Para retirar la cubierta superior para obtener acceso a las barras topes de empuje, regulador, la válvula del solenoide u otros componentes ubicados en la parte superior de la unidad, retire la cubierta inferior, desconecte el tubo de desagüe, retire cuatro tornillos de las lengüetas a lo largo del borde inferior de la cubierta superior, desenchufe dos cables y la tubería de agua.

Burbujeador

Para quitar el burbujeador, primero hay que desconectar la alimentación.

Se puede obtener acceso a la parte inferior del burbujeador a través del panel de acceso en la parte inferior de la cubierta superior. Quite el panel de acceso sacando el tornillo de retención. Para retirar el burbujeador, suelte la contratuerca de la parte inferior del burbujeador y saque la tubería del accesorio de conexión rápida según descrito en la sección Funcionamiento de los Accesorios de Conexión Rápida en las Instrucciones Generales. Después de realizar el servicio, reemplace el panel de acceso y el tornillo de retención.

Interruptores detrás de la barra tope de empuje

El enfriador EZ es parecido a un sensor fotoeléctrico en que el regulador siempre está completamente abierto pero no surte el agua hasta que la barra tope se empuja (Figura 3). Se escuchará un sonido de chasquidos al activar el interruptor y la válvula del solenoide. Una sola tuerca del regulador mantiene abierto el regulador en todo momento. Al instalar la tuerca, es necesario presionar el resorte del regulador mientras gira la tuerca.

Para retirar las barras laterales, desde el interior, hay que contraer las lengüetas acampanadas y retire cuidadosamente. Para reinstalar las barras topes laterales, se debe introducir la parte frontal de las barras primero. Con el interruptor presionado, encaje con un chasquido la parte posterior de la barra tope en la posición correcta.

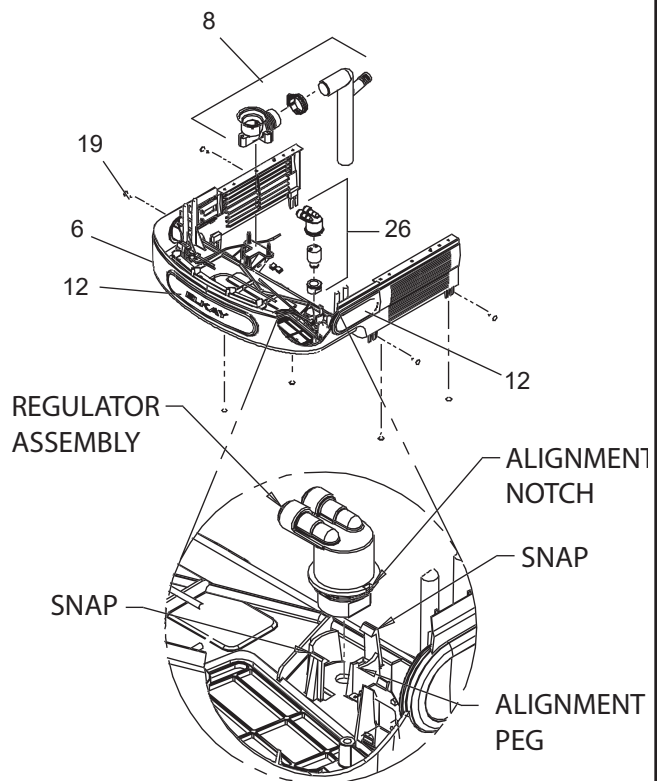


Fig. 3

Entretien des Instructions

Enveloppes de Protection Supérieure et Inférieure

Pour accéder au système de réfrigération et aux raccords de plomberie, retirez les six vis situées au bas du refroidisseur pour retirer l'enveloppe inférieure.

Pour retirer l'enveloppe supérieure afin d'avoir accès aux boutons-poussoir, au régulateur, à l'électrovanne ou à tout autre composant situé au sommet de l'unité, retirez l'enveloppe inférieure, déconnectez le drain, retirez les quatre vis des pattes situées le long de l'arête inférieure de l'enveloppe supérieure, et débranchez les deux câbles ainsi que le raccordement en eau.

Barboteur

Pour déposer le barboteur, débranchez d'abord l'alimentation électrique.

Le dessous du barboteur est accessible par le biais du panneau d'accès sur la face inférieure du collecteur d'air. Déposez le panneau d'accès en retirant la vis de retenue.

Pour déposer le barboteur, desserrez l'écrou de blocage du dessous du barboteur et retirez la tubulure à partir du raccord rapide conformément à la section Utilisation des raccords rapides dans les instructions générales. Une fois le travail terminé, remplacez le panneau d'accès et la vis de

Interrupteurs derrière le bouton-poussoir

Le refroidisseur EZ a un fonctionnement similaire à celui d'un capteur photo-électrique, dans le sens où le régulateur est toujours complètement ouvert mais ne dispense de l'eau que lorsque l'on presse le bouton-poussoir (composant 3). Un cliquetis se produit quand l'interrupteur et l'électrovanne se mettent en marche. Un seul écrou de réglage maintient le régulateur en position ouverte en permanence. Lors de l'installation de l'écrou, le ressort de détente doit être en position relâchée pendant le réglage de l'écrou.

Afin de retirer les barres latérales, pressez les pattes évasées de l'intérieur et tirez doucement. Pour réinstaller les barres latérales, la partie avant est d'abord insérée. En gardant l'interrupteur relâché, encastrer l'arrière du bouton-poussoir en position.

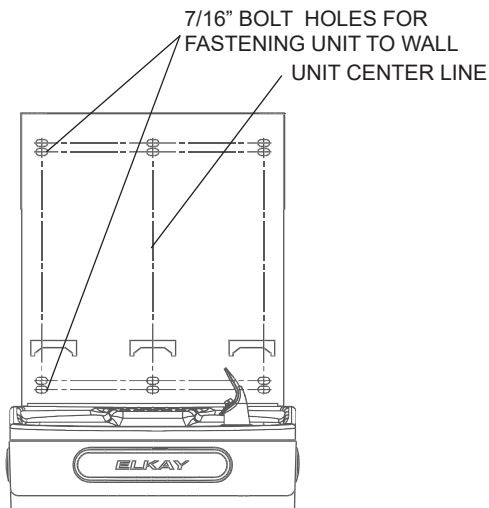


Fig. 4

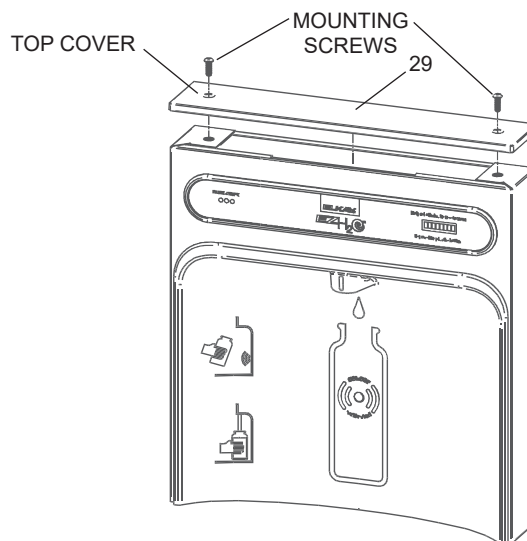


Fig. 5

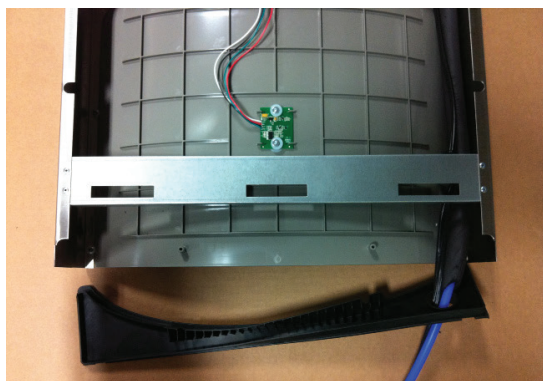


Fig. 6



Fig. 7

Bottle Filler Installation Instructions

- 1) **Remove two (2) mounting screws** with 5/32" Allen wrench holding top cover to Bottle Filler (See Fig. 5). Remove top cover. Note do not discard mounting screws, they will be needed to reinstall top cover.
- 2) **Remove wall mounting plate** from Bottle Filler. Place wall plate against wall on top of basin. Center the wall plate side to side with the basin. Mark the six (6) mounting holes with a pencil (See Fig. 2).
- 3) **Remove wall mounting plate** from wall. **NOTE:** Mounting plate **MUST** be supported securely. Add fixture support carrier if wall will not provide adequate support.
- 4) **Install wall mounting plate** to wall using six (6) 7/16" obround mounting holes (mounting bolts not included) (See Fig. 4). Use appropriate fasteners for your wall type.
- 5) **Lay Bottle Filler on water cooler basin** and cut insulation from tube even with bottom of gasket, remove this insulation from the 3/8" tube, but do not discard. Feed the power cord and waterline through the hole on top of water cooler. **NOTE:** To prevent scratching the basin place a towel or soft cloth over the entire basin when working above it.
- 6) **Install gasket** on bottom of bottle filler tower with gasket support bracket & (2) screws (See Fig 7).
- 7) **Feed power cord & 3/8" water line** through hole in tower/basin gasket (See Fig. 6).
- 8) **Once Bottle Filler is installed** on wall plate tabs, water line, wire(s) and power cord are installed properly, push top of Bottle Filler toward wall and line up top cover two (2) holes.
- 9) **Reinstall Top Cover on Bottle Filler** (See Fig. 5) with two mounting screws from step 1 above. Caution, do not over tighten screws.
- 10) **Install remaining tube insulation** to the water line from bottle filler, connect Bottle Filler waterline inside of the water cooler by connecting the 3/8" water line to the tee.
- 11) **Install filter cartridge**, remove filter from carton, remove protective cap, attach filter to filter head by firmly inserting into head and rotating filter clockwise. **NOTE:** If existing plumbing rough in locations (Drain, Water In, and Electric Supply) do not allow the filter to be mounted inside the cooler cabinet the filter can be installed horizontally below the unit. A retrofit kit is available to mount the filter beneath the cooler.
- 12) **Turn water supply on** and inspect for leaks. Fix all leaks before continuing.
- 13) **Once unit has been inspected** for leaks and any leaks found corrected, plug Bottle Filler and unit into wall. Be sure to reinstall fuse to the circuit or switch the circuit breaker back to the "ON" position.
- 14) **Once power is applied to Bottle Filler**, the GREEN LED light should illuminate showing good filter status along with the LCD Bottle Counter.
- 15) **Verify proper dispensing** by placing cup, hand, or any opaque object in front of sensor area and verify water dispenses. **Note:** the first initial dispenses might have air in line which may cause a sputter. This will be eliminated once all air is purged from the line.
- 16) **Once unit tests out**, install Lower Panel back on water cooler. Unit is now ready for use.

BF11 - BF12 PROGRAM

SETTING THE CONTROL BOARD

VERIFY CONTROL BOARD SOFTWARE

- 1) To verify the software program of the control board the unit will need to be shut down and restarted. The chiller (if present) does not need to be shut down and restarted.
- 2) The units lower panel must be open to access the power cord and wall outlet.
- 3) Shut down the unit by unplugging the power cord from the wall outlet or switching off the circuit breaker to the unit.
- 4) Restart the unit by plugging the power cord back into the wall outlet.
- 5) Upon start up, the bottle count display will show the software designation of BF11 or BF12.

ACCESSING THE PROGRAMMING BUTTON

- 1) To access the program button, remove the top cover of the bottle-filler. Remove the two (2) screws holding top cover to bottle-filler with a 5/32" allen wrench. Remove top cover. Do not discard mounting screws, they will be needed to reinstall the top cover after programming operations are completed. The programming button is located at the top right side of the unit on the control board.

NOTE: When applicable, there is also an alternate reset button located on the lower part of the water cooler. After removing the bottom cover, the reset button will be located on the left side of the cooler, mounted on the side panel support.

RESET THE FILTER MONITOR

- 1) Instructions apply to filtered units only.
- 2) Depress the program button for approximately 2 seconds until the display changes then release. The display will change and scroll through two messages:
"RST FLTR" – Reset Filter Monitor
"SETTINGS" – System Settings Sub Menu
If the program button is not pushed again the display will scroll through the two messages above for three cycles and then default back to bottle count and be back in run mode.
- 3) When the display changes to "RST FLTR", depress the button again. The display will change to show "FLTR =". Depress the button again and the display will show "FLTR =0"
- 4) The Green LED should be illuminated indicating that the visual filter monitor has been reset.

SETTING RANGE OF THE IR SENSOR WHERE APPLICABLE

- 1) Depress the program button for approximately 2 seconds until the display changes then release. The display will change and scroll through two messages:
"RST FLTR" – Reset Filter Status LED
"SETTINGS" – System Settings Sub Menu
If the program button is not pushed again the display will scroll through the two messages above for three cycles and then default back to bottle count and be back in run mode.
- 2) When the display changes to "SETTINGS", depress the button again. The display will change to show
"RNG SET" - Range set for IR sensor.
"UNIT TYP" - Type of unit (REFRIG or NON-RFRG)
"FLT SIZE" - Select filter capacity
"RST BCNT" - Reset bottle count
- 3) When display shows "RNG SET" push program button once the display will show current value (can be 1 – 10) e.g. "RNG = 3".
- 4) Once display shows current value push the program button to scroll through value of 1 – 10. Select the desired range setting, "1" being closest to sensor and "10" being farthest away.
- 5) Once range is selected allow approximately 4 seconds to pass and then the display will go back to bottle counter and be in run mode.
- 6) Test bottle filler by placing bottle or hand in front of sensor to make sure water is dispensed.

SETTING UNIT TYPE

- 1) Depress the program button for approximately 2 seconds until the display changes then release. The display will change and scroll through two messages:
"RST FLTR" – Reset Filter Status LED
"SETTINGS" – System Settings Sub Menu
If the program button is not pushed again the display will scroll through the two messages above for three cycles and then default back to bottle count and be back in run mode.

Continued from below:

- 2) When the display changes to "SETTINGS", depress the button again.
The display will change to show
"RNG SET" - Range set for IR sensor.
"UNIT TYP" - Type of unit (REFRIG or NON-RFRG)
"FLT SIZE" - Select filter capacity
"RST BCNT" - Reset bottle count
- 3) When display shows "UNIT TYPE" push program button once the display will show current value. Can be REFRIG or NON-RFRG
- 4) Push button once to change value. Once value is selected the display will show the new value. (Can be REFRIG or NON-RFRG)
"REFRIG" - stands for refrigerated product. In this setting the flow rate is estimated at 1.0 gallon per minute.
"NON-RFRG" - stands for nonrefrigerated product. In this setting the flow rate is estimated at 1.5 gallons per minute. Both "REFRIG" and "NON-RFRG" simulate 1 bottle equal to 20 oz.
- 5) Allow approximately 4 seconds to pass and the display will return to bottle counter and be in run mode.

RESETTING BOTTLE COUNT

- 1) Depress the program button for approximately 2 seconds until the display changes then release. The display will change and scroll through two messages:
"RST FLTR" – Reset Filter Status LED
"SETTINGS" – System Settings Sub Menu
If the program button is not pushed again the display will scroll through the two messages above for three cycles and then default back to bottle count and be back in run mode.
- 2) When the display changes to "SETTINGS", depress the button again.
The display will change to show:
"RNG SET" - Range set for IR sensor.
"UNIT TYP" - Type of unit (REFRIG or NON-RFRG)
"FLT SIZE" - Select filter capacity
"RST BCNT" - Reset bottle count
If the button is not pushed again the display will scroll through the four messages above for three cycles and return to run mode.
- 3) When display shows "RST BCNT" push program button once the display will show current value, e.g. "0033183".
- 4) Once display shows current value push the program button once more to reset back to 0. The display will show BTLCT = 0 for approximately 2 seconds and then return to run mode showing 00000000 bottles.
NOTE: Once the bottle count is reset to zero there is no way to return to the previous bottle count.
- 5) Testing the bottle counter:
REFRIG units: Place bottle or hand in front of sensor for approximately 9 seconds to see bottle counter count 00000001,
(This is based on filling a 20 oz. bottle).
NON-RFRG units: Place bottle or hand in front of sensor for approximately 6 seconds to see bottle counter count 00000001,
(This is based on filling a 20 oz bottle).

SETTING FILTER CAPACITY

- 1) Depress the program button for approximately 2 seconds until the display changes then release. The display will change and scroll through two messages:
"RST FLTR" – Reset Filter Status LED
"SETTINGS" – System Settings Sub Menu
If the program button is not pushed again the display will scroll through the two messages above for three cycles and then default back to bottle count and be back in run mode.
- 2) When the display changes to "SETTINGS", depress the button again.
The display will change to show:
"RNG SET" - Range set for IR sensor.
"UNIT TYP" - Type of unit (REFRIG or NON-RFRG)
"FLT SIZE" - Select filter capacity
"RST BCNT" - Reset bottle count
If the button is not pushed again the display will scroll through the four messages above for three cycles and return to run mode.
- 3) When display shows "FLT SIZE" push program button once. The display will show current value. Can be 3000GAL or 6000GAL.
- 4) Push program button again to display the desired "FLT SIZE".
- 5) Allow approximately 4 seconds to pass and the display will return to bottle counter and be in run mode.

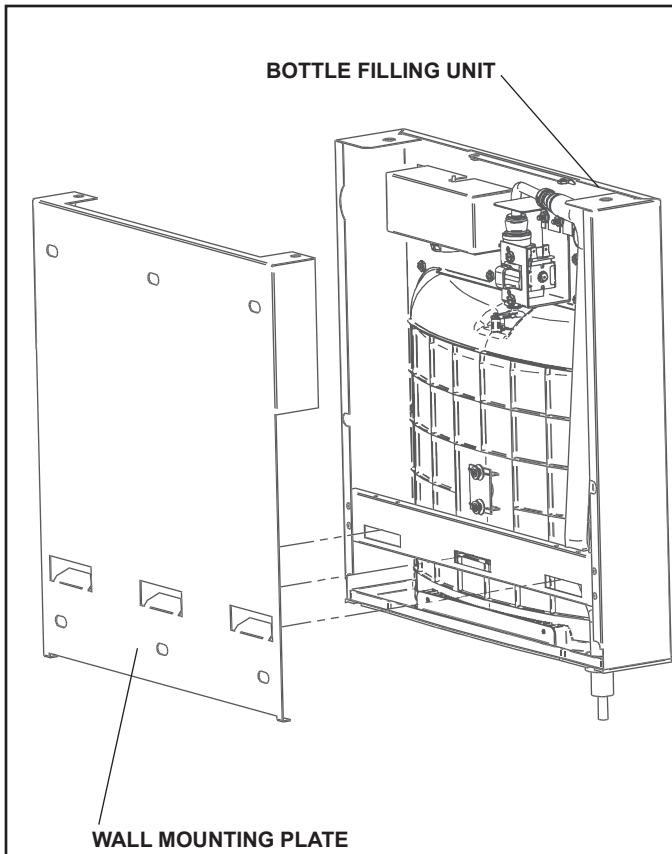
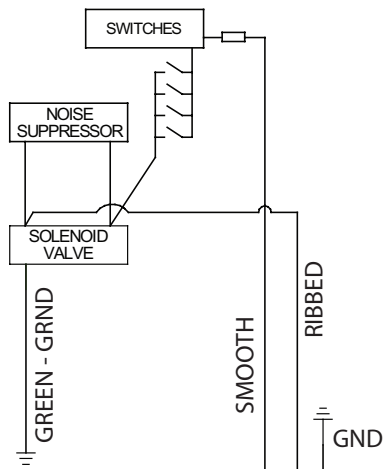
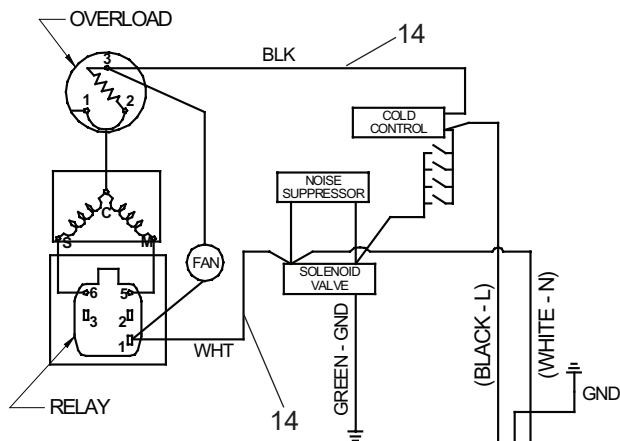


Fig. 8



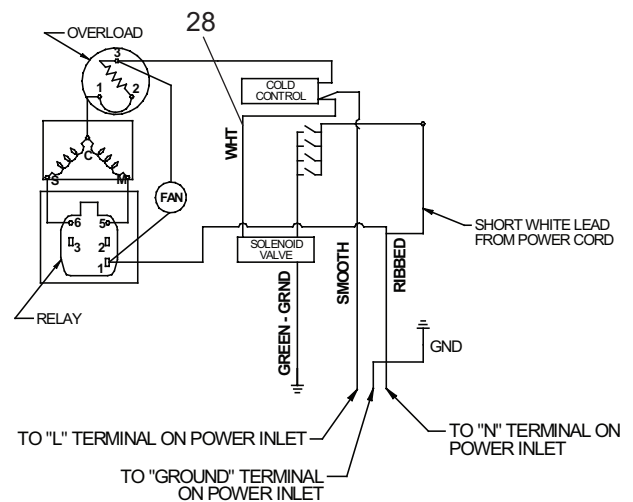
115V Non-Refrigerated Wiring Diagram
 Diagrama de Cableado No Refrigerados de 115 Voltios
 Schéma de Câblage Non Réfrigéré de 115 Volts

Fig. 9



115V Refrigerated Wiring Diagram
 Diagrama de Cableado Refrigerados de 115 Voltios
 Schéma Frigorifique de 115 Volts

Fig. 10



230V Refrigerated Wiring Diagram
 Diagrama de Cableado Refrigerados de 230 Voltios
 Schéma Frigorifique de 230 Volts

Fig. 11

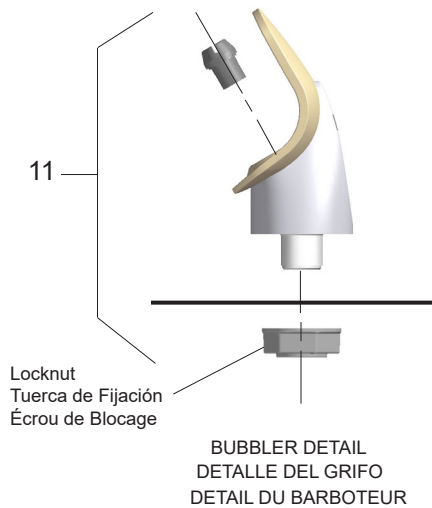


Fig. 12

Basin
Estanque
Bassin

NOTE:
When installing replacement bubbler and pedestal, tighten nut only to hold parts snug in position. Do Not Overtighten.

NOTA:
Al instalar el grifo y pedestal de reemplazo, apriete la tuerca únicamente para mantener las piezas en una posición ajustada. No debe apretarse demasiado.

REMARQUE:
Lors de l'installation du barboteur de remplacement ou du socle, serrez la vis afin de maintenir les éléments en place. Ne Pas Serrer Trop Fortement.

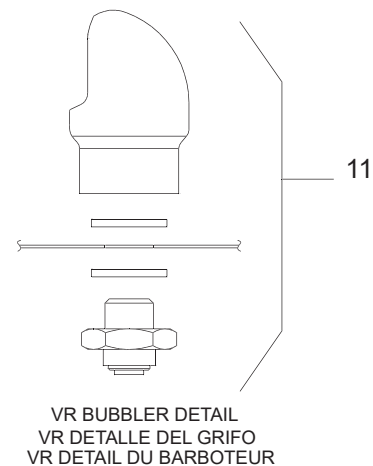


Fig. 13

OPERATION OF QUICK CONNECT FITTINGS

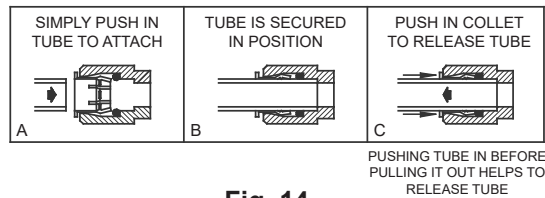
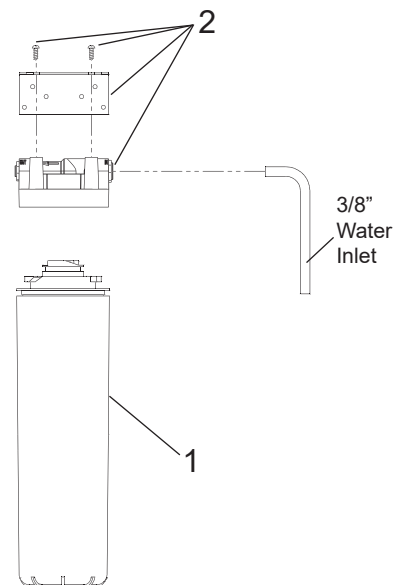


Fig. 14



Scan for trouble shooting and to sign up for auto replenishment of authentic Elkay filters.



FILTER EXPLODED VIEW

Fig. 15

FILTER PARTS LIST			LISTA DE PIEZAS DEL FILTRO	LISTE DES PIÈCES DU FILTRE
ITEM NO.	PART NO.	DESCRIPTION	DESCRIPCIÓN	DESCRIPTION
1 2	51300C 0000000746	Filter Assy-3000 Gallon Assy-Filter & Bracket includes Filtr Head/Mtg Bkt/ John Guest Fgts/Screws	Ensamblado del Filtro-3000 Galón Conjunto del Filtro y Soporte, Incluye Filtro Soporte/John Guest Guarniciones/Tornillos de Montaje de Cabeza	Ens. filtre-3000 Gallon Assemblée-Filtre et Support Inclut Filtre/Montage Support/ John Guest/Vis à Tête

115V PARTS LIST/ 115V LISTA DE PIEZAS/ 115V LISTE DES PIÈCES

ITEM NO.	PART NO.	DESCRIPTION	DESCRIPCIÓN	DESCRIPTION
1	28401C	Hanger Bracket	Soporte Colgante	Support de Suspension
2	0000001337	Basin - Stainless Steel	Estanque - Acero Inoxidable	Basin - Inox
3	36216C	Wiring - Front/Side Push Bar	Barra de Empuje de Cableado-Frontal/Lateral	Barre Anti-Panique Câblage Avant/Côté
*4	36322C	Compr - Service Pak 115V EMIS70HHR	Compresor Paquete de Servicio 115V EMIS70HHR	Kit d'Entretien du Compresseur 115V EMIS70HHR
5	56092C	Poly Tube - (Cut To Length)	Tubería de Polietileno (Corte a la Longitud)	Tubes - Polyéthylène (Couper à la Longueur)
6	56229C	Assy - Shroud - Upper (Front Side Push)	Cubierta - Superior (Frontal Lateral Presión)	Enveloppe de Protection - Supérieure (Face Latéral)
7	66703C	Drier	Secador	Poussoir) Déshydrateur
8	1000001877	Kit - Drain Replacement EZ (BF) (Brkt, Tube, Ftg, Clamp)	Kit - Reemplazo de Drenaje (EZ)/Soporte/Tubo/Guar- nición de Tubo/Abrazadera	Kit - Remplacement de Drain (EZ)/Support/Tube/ Raccord de Tube/Bride Pour Tuyau
9	55996C	In-Line Strainer	En Line Strainer	Filtre à eau en ligne
10	1000004572	Kit - Solenoid Valve/Regulator Assy	Kit - Montaje del Regulador/Válvula Solenoide	Kit - Solénoïde de la Vanne/Régulateur
11	56073C	Kit - Flexi Bubbler/O-Ring/Nut	Kit - Flexi Borboteador/Oring/Teurca	Kit - Flexi Barboteur/Oring/Noix
	97446C	Kit - Vandal Resistant Bubbler	Kit - Grifo Resistente al Vandalismo	Kit - Barboteur Anti-Vandalisme
12	98734C	Kit - Pushbar (Front/Side)	Kit - Manillar (Frontal/Lateral)	Kit - Barre de Poussée (Avant/Côté)
	1000001600	Kit - Pushbar (Front)	Kit - Manillar (Frontal)	Kit - Barre de Poussée (Avant)
13	98773C	Kit - Cold Control/Screws	Kit - Control del Enfriamiento/Tornillo	Kit - Contrôle de Refroidissement/Vis
14	98774C	Kit - Internal Wiring/Pwr Cord/Black and White Jumper Wires	Kit - Cableado Interno/Cable/ Negro Y Blanco Puente	Kit - Câblage Interne/Câble d'Alimentation/Noir et Fils de Raccordement Blanc
15	98775C	Kit - Fan Motor Assy/Blade/Mtr/ Shroud/Screws/Nut	Kit - Ventilador Motor Montaje/Hoja/Motor/ Cubierta/Tornillos/Tuerca	Kit - Ventilateur Moteur Assemblée/Lame/Moteur/ Cache/Vis/Ecrou
16	98776C	Kit - Condenser/Drier	Kit - Condensador/Secador	Kit - Condenseur/Sechoir
17	98777C	Kit- Compr Mtg Hdwe/Grommets/ Clips/Studs	Kit - Matériel de Montaje Compresor/Ojal/ Pinza/Taquete	Kit - Montage du Compresseur materiel/Joint d'étanchéité/Clip/Goujon
18	98778C	Kit - Heatx/Drier	Kit - Intercambiador Térmico/Secador	Kit - Echangeur Thermique/Déshydrateur
19	98898C	Kit - Hardware (EZ)	Kit - Juego de Accesorios (EZ)	Kit - De Visserie (EZ)
20	0000000238	Kit - Elect/Relay/Overload/Cover	Kit - Relé/Sobrecarga/Cubierta	Kit - Relais/Surcharge/Relais Coiffe
21	98724C	Kit - Evaporator Assembly	Montaje del Kit-Evaporador	Assemblée de L'évaporateur en Kit
22	0000002062	Tee - 1/4" x 1/4" x 3/8" (3 Pack)	Tee - 1/4" x 1/4" x 3/8" (paquete de 3)	Tee - 1/4" x 1/4" x 3/8" (Pack de 3)
23	1000001602	Kit - 75583C Elbow 5/16" x 1/4" (3 Pack)	Kit - 75583C Elbow 5/16" x 1/4" (paquete de 3)	Kit - 75583C Elbow 5/16" x 1/4" (Pack de 3)
24	36287C	Power Cord EZS8	Cable eléctrico EZS8	Cordon d'Alimentation EZS8
	35980C	Power Cord Non-Refrigerated	Cable eléctrico L/R	Cordon d'Alimentation L/R
25	1000001812	Kit - Bottle Filler Drain (EZ)	Kit - de Drenaje de Llenada de la Botella (EZ)	Kit - de Remplissage de Bouteille de Vidange
26	1000004564	Kit - Regulator w/Holder & Nut	Kit - regulador con soporte y la tuerca	Kit - régulateur avec support et écrou
27	0000001339	Ferrule-Drain (BF)	Férula-Drenaje (Llenadora de botellas)	Bague-Drain (remplissage de la bouteille)
NS	36300C	Jumper Wire (Yellow)	Cable - Puente (Amarillo)	Câble - Cavalier (Jaune)
NS	27416C	Wrapper - Stainless	Envoltura - Acero inoxidable	Couvre-joint - Inox
NS	27413C	Wrapper - Light Grey	Envoltura - Gris claro	Couvre-joint - Gris Clair
NS	See Filter Table	Water Filter Kit (When Provided)	Kit de Filtro de Agua (Cuando Provisto)	Kit de Filtrage d'Eau (Si Fourni)

NS = NOT SHOWN

220V PARTS LIST/ 220V LISTA DE PIEZAS/ 220V LISTE DES PIÈCES

ITEM NO.	PART NO.	DESCRIPTION	DESCRIPCIÓN	DESCRIPTION
*4	1000002147	Compressor Serv. Pak (220v/50Hz)	Compresor Paquete de servicio (220v/50Hz)	Kit d'Entretien du Compresseur (220v/50Hz)
	1000002146	Compressor Serv. Pak (220v/60Hz)	Compresor Paquete de servicio (220v/60Hz)	Kit d'Entretien du Compresseur (220v/60Hz)
10	1000004575	Kit - Solenoid Valve/Regulator Assy	Kit - Montaje del Regulador/Válvula Solenoide	Kit - Solénoïde de la Vanne/Régulateur
15	31431C	Kit - Fan Motor Assy/Blade/Mtr/ Screws/Nut	Kit - Ventilador Motor Montaje/Hoja/Motor/ Tornillos/Tuerca	Kit - Ventilateur Moteur Assemblée/Lame/Moteur/ Vis/Ecrou
20	98751C	Kit - Relay/Overload/Cover (220v/50Hz)	Kit - Relé/Sobrecarga/Cubierta (220v/50Hz)	Kit - Relais/Surcharge/Relais Coiffe (220v/50Hz)
	98752C	Kit - Relay/Overload/Cover (220v/60Hz)	Kit - Relé/Sobrecarga/Cubierta (220v/60Hz)	Kit - /Relais/Surcharge/Relais Coiffe (220v/60Hz)
28	36004C	Wire - Jumper (White)	Cable - Puente (Blanco)	Câble - Cavalier (Blanc)
NS	36066C	Internal Power Cord	Cable de alimentación interno	Cordon d'Alimentation interne
NS	36067C	Internal Power Cord Non-Refrigerated	Cable de alimentación interno L/R	Cordon d'Alimentation interne L/R
NS	28030C	Brkt - Power Inlet	Soporte - Entrada De Eléctric	Support - Entrée d'alimentation
NS	35826C	Inlet Power	Entrada De Eléctrico	Entrée d'alimentation
NS	36300C	Jumper Wire (Yellow)	Cable - Puente (Amarillo)	Câble - Cavalier (Jaune)

NS = NOT SHOWN

*INCLUDES RELAY & OVERLOAD. IF UNDER WAR-
RANTY, REPLACE WITH SAME COMPRESSOR USED
IN ORIGINAL ASSEMBLY.NOTE: All correspondence pertaining to any of the above
water coolers or orders for repair parts MUST include
Model No. and Serial No. of cooler, name and part number
of replacement part.*INCLUYE RELÉ Y SOBRECARGA. SI ESTÁ BAJO GARANTÍA,
REEMPLACE CON EL MISMO COMPRESOR USADO EN EL
ENSAMBLADO INICIAL.NOTE: Toda la correspondencia relacionada con el enfriador de
agua anterior o con una orden de reparación piezas DEBERÁ incluir
el número de modelo y número de serie del enfriador, el nombre y
número de pieza de la pieza de repuesto.*COMPREND RELAIS ET SURCHARGE. SI SOUS GARANTIE, REM-
PLACEZ AVEC LE MÊME SURPRESSEUR QUE CELUI UTILISÉ
ORIGINALEMENT.NOTE: Toute correspondance au sujet des refroidisseurs d'eau courante ou
toute commande de pièce de rechange DOIT inclure le numéro de modèle
et le numéro de série du refroidisseur ainsi que le nom et le numéro de
pièce à remplacer.

BOTTLE FILLER REPLACEMENT PART KITS

ITEM NO.	PART NO.	DESCRIPTION	DESCRIPCIÓN	DESCRIPTION
NS	98543C	Kit - Electrical Package 115V	Paquete Kit - Eléctrico 115V	Forfait Kit - Electriqueso 115V
NS	98631C	Kit - Electrical Package 220V	Paquete Kit - Eléctrico 220V	Forfait Kit - Electriqueso 220V
NS	98544C	Kit - IR Sensor	Sensor Kit - IR	Kit - Rcepteur IR
NS	1000004573	Kit - BF Solenoid Valve Replacement 115V	Reemplazo de la Válvula de Solenoide Kit 115V	Remplacement de la Valve Solénoïde - Kit 115V
NS	1000004574	Kit - BF Solenoid Valve Replacement 220V	Reemplazo de la Válvula de Solenoide Kit 220V	Remplacement de la Valve Solénoïde - Kit 220V
NS	98546C	Kit - Aerator Replacement	Reemplazo Kit - Aireador	Remplacement du Kit - Aérateur
29	98547C	Kit - Top Cover Replacement	Kit - Tapa Cubierta Reemplazo	Remplacement du Kit - Top Couverture
NS	98549C	Kit - Hardware & Waterway Parts	Piezas del Kit - De Hardware y Por Vía Navegable	Pièces Kit - Matériel et Voie Navigable
NS	98551C	Kit - Filter Mounting Cover	Cubierta del Filtro de Kit - De Montaje	Couvercle de Filtre - Kit Montage
NS	98552C	Kit - Retro Filter Mounting	Montaje de Filtro Kit - Retro	Montage de Retro - Kit Filtre
NS	1000001813	Kit - Tower/Basin Gasket	Kit - Torre/Cuenca Junta	Kit - Tour/Collecteur

FOR PARTS, CONTACT YOUR LOCAL DISTRIBUTOR OR CALL 1.800.834.4816

PARA PIEZAS, CONTACTE A SU DISTRIBUIDOR LOCAL O LLAME AL 1.800.834.4816

POUR OBTENIR DES PIÈCES, CONTACTEZ VOTRE DISTRIBUTEUR LOCAL OU COMPOSEZ LE 1.800.834.4816

REPAIR SERVICE INFORMATION TOLL FREE NUMBER 1.800.260.6640

NUMERO GRATIS DE SERVICIO 1.800.260.6640

INFORMATIONS POUR LE SERVICE PAR NUMERO SANS FRAIS 1.800.260.6640

PRINTED IN U.S.A.
IMPRESO EN LOS E.E.U.U.
IMPRIMÉ AUX É.-U.

ELKAY MANUFACTURING COMPANY • 1333 BUTTERFIELD ROAD, SUITE 200 • DOWNERS GROVE, IL 60515 • 630.574.8484 •

www.elkay.com
Page 10



TO: Hight Jackson Associates
jandrade@hjarch.com

ATTN: Jorge Andrade

RE: Farm Credit - Russellville, AR
Plumbing

DATE: 07/05/2023 JOB NO. 22-166

ELECTRONIC SUBMITTAL WAS REVIEWED AS FOLLOWS:

☒ CUT SHEETS	☐ NO EXCEPTIONS TAKEN	☒ APPROVED
☐ DRAWINGS	☒ NOTE MARKINGS	☐ REJECTED
☐ OTHER	☐ COMMENTS ATTACHED	☐ RESUBMIT
		☒ RESUBMIT only items marked

REMARKS:

Submittal - 22 40 00-01 Plumbing Fixtures 1

☐ APPROVED	☐ REVISE AND RESUBMIT
☐ APPROVED AS CORRECTED	☐ NOT APPROVED
☒ REVIEWED BY CONSULTANT	☒ SUPPLEMENTAL HJ COMMENTS

Checking is only for conformance with the design concept of the Project and compliance with the information given in the Contract Documents.
Contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication process or to the techniques of construction; and for coordination of the work of all trades.

BY: Jorge Andrade
DATE: 7/6/2023

Hight Jackson
ASSOCIATES

ENGINEER'S REVIEW IS FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AND CONTRACT DOCUMENT. MARKINGS OR COMMENTS SHALL NOT BE CONSTRUED AS RELIEVING THE CONTRACTOR FROM COMPLIANCE WITH THE PROJECT PLANS AND SPECIFICATIONS, NOR DEPARTURE THEREFROM. THE CONTRACTOR REMAINS RESPONSIBLE FOR DETAILS AND ACCURACY, FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS, FOR SELECTING FABRICATION PROCESSES, FOR TECHNIQUES OF ASSEMBLY AND PERFORMING HIS WORK IN A SAFE MANNER.

Copies To:

<u>X</u>	File	
	Owner	
<u>X</u>	Architect	
	Other	BY: <u>Nathan Wilson, PE</u>

HSA Engineering Consulting Services, Inc.

7405 Ellis Street
Fort Smith, AR 72916

479.452.8922
www.hsaconsultants.com

SUBMITTAL



Project Name: Farm Credit, Russellville, AR
Project Number: 02-23-2720
Transmitted To: Hight Jackson Associates
Specification: 22 40 00-01 Plumbing Fixtures

Construction Manager:

NABHOLZ CONSTRUCTION SERVICES	
☐	Revise & Resubmit
☐	Reviewed & Amend As Noted
☒	Reviewed
By: <u>Ann Miller</u>	Date: <u>06.22.2023</u>

Design Review Comments:

RESUBMIT provide submittal for fixture P-31 for review.

P-27 AND P-31 FIXTURES TO HAVE K-22068-CP FAUCET. SUBMIT FOR REVIEW.

P-1



Highcliff™ Ultra

Top spud flushometer bowl
K-96057

Features

- Elongated bowl offers added room and comfort
- 1-1/2" (38 mm) top spud
- 2-1/8" (54 mm) fully glazed trapway
- 10" x 7" (254 mm x 178 mm) water surface
- 1.0 gpf (3.8 lpf), 1.1 gpf (4.2 lpf), 1.28 (4.8 lpf), or 1.6 gpf (6.0 lpf) depending on flushometer specified
- Also available with antimicrobial finish K-96057-SS
- 10" or 12" (254 or 305 mm) rough-in
- Supports static load of 2,500 lbs

Material

- Vitreous china

Technology

- Designed to outperform competitors in bowl cleanliness and plug resistance
- Maximum waste removal
- Engineered for toilet seat cover removal
- Excellent bowl rinse
- Engineered to flush effectively in buildings with low supply pressure and flow
- Maximum drain line carry at all flush volumes per ASME standard

Installation

- Replaces Highcrest K-4302, Highcliff K-4368 and Highline K-4405. Height and footprint may vary

Included Components

Additional Components:

Bolt cap accessory pack
Spud



ADA

CSA B651

OBC

Codes/Standards

ASME A112.19.2/CSA B45.1
DOE - Energy Policy Act 1992
EPA WaterSense™
California Energy Commission (CEC)
ADA
ICC/ANSI A117.1
CSA B651
OBC

KOHLER® One-Year Limited Warranty

See website for detailed warranty information.

Available Colors/Finishes

Color tiles intended for reference only.

Color	Code	Description
	0	White
	96	Biscuit
	7	Black Black™

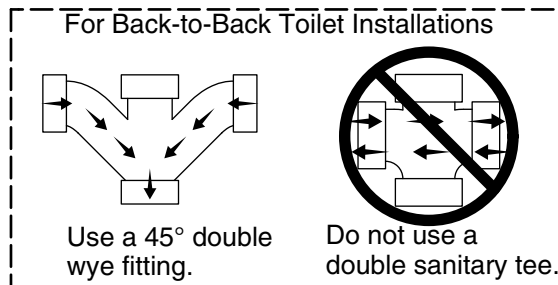
1-800-4KOHLER (1-800-456-4537)

Kohler Co. reserves the right to make revisions without notice to product specifications.

For the most current Specification Sheet, go to www.kohler.com.

4-2-2023 21:27 - US/CA/MX

THE BOLD LOOK
OF **KOHLER**®



THE BOLD LOOK
OF **KOHLER**

CODE NUMBER

3780010

DESCRIPTION

1.6 gpf, Dual-Filtered Fixed Bypass Diaphragm, Polished Chrome Finish, Fixture Connection Top Spud, Single Flush, Sloan® Exposed Manual Water Closet Flushometer.

DETAILS

- Flush Volume: 1.6 gpf (6.0 Lpf)
- Finish: Polished Chrome (CP)
- Valve: Diaphragm
- Bypass: Dual-Filtered Fixed Bypass Diaphragm (DFB)
- Valve Body Material: Semi-red Brass
- Fixture Type: Water Closet
- Fixture Connection: Top Spud
- Rough-In Dimension: 11 ½" (292mm)
- Spud Coupling: 1 ½" (38mm)
- Supply Pipe: 1" (25mm)

FEATURES

- High Chloramine Resistant PERMEX® Synthetic Rubber DFB Dual Filtered Bypass Diaphragm
- 1" I.P.S. Screwdriver Bak-Chek® Angle Stop with Vandal Resistant Stop Cap
- Vacuum Breaker with Flush Connection
- Spud Coupling and Spud Flange for 1½" Top Spud
- Sweat Solder Adapter with Cover Tube and Cast Wall Flange
- Non-Hold-Open Handle and No External Volume Adjustment to Ensure Water Conservation
- Diaphragm, Handle Packing and Vacuum Breaker Molded from PERMEX® Rubber Compound for Chloramine Resistance
- ADA Compliant Metal Oscillating Non-Hold-Open Handle



COMPLIANCES & CERTIFICATIONS



(UL Certified, ADA Compliant, cUPC Certified, BAA Compliant)

RECOMMENDED SPECIFICATION

Valve Body, Cover, Tailpiece and Control Stop shall be in conformance with ASTM Alloy Classification for Semi- Red Brass. Valve shall be in compliance with the applicable sections of ASSE 1037 and ANSI/ASME 112.19.2.

VALVE OPERATING PRESSURE (FLOWING)

15–80 PSI (103–552 kPa). Specific fixtures may require greater minimum flowing pressure - consult manufacturer requirements.

DOWNLOADS

- [Sloan Exposed Installation Instructions](#)
- [Sloan Exposed \(Spanish\) Installation Instructions](#)
- [Control Stop Repair and Maintenance Guide](#)
- [Flush Connections Flanges Repair and Maintenance Guide](#)
- [Tail Piece Repair and Maintenance Guide](#)
- [Sloan Flushometer Repair and Maintenance Guide](#)
- [Sloan/Regal ESS Repair and Maintenance Guide](#)
- [Flushometer Pressure gauges](#)
- [Additional Downloads](#)

NOTES

All information contained within this document subject to change without notice.

Looking for other variations of the SLOAN 111 product? [View the general spec sheet with all options.](#)

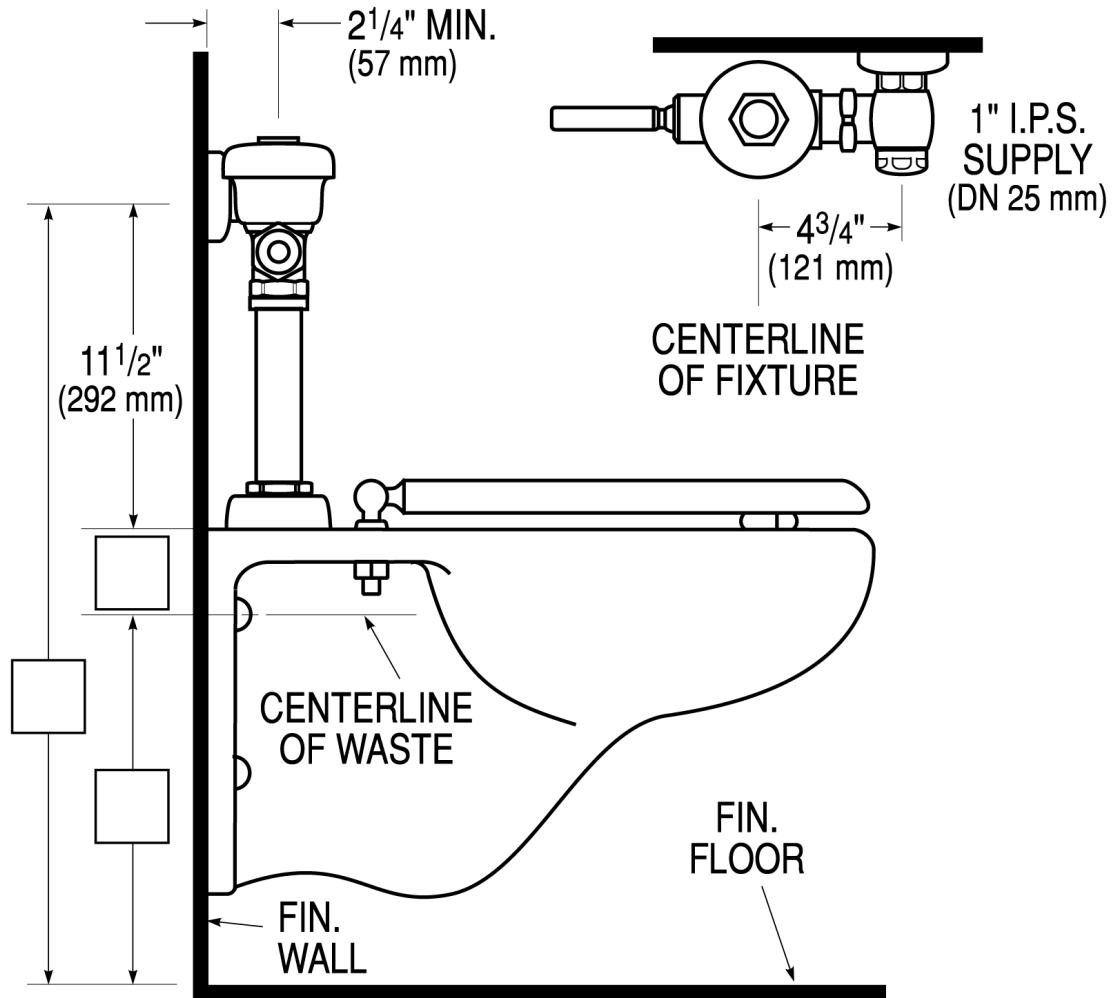
[Find a compatible urinal](#) for this flushometer.

[Find a compatible water closet](#) for this flushometer.

Sloan 10500 Seymour Ave, Franklin Park, IL 60131

Phone: 800.982.5839 • Fax: 800.447.8329 • sloan.com

ROUGH-IN



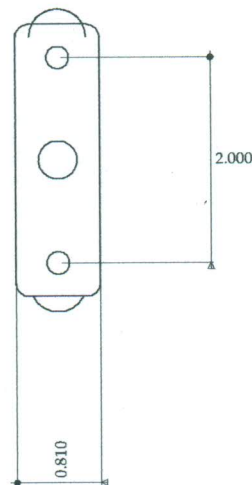
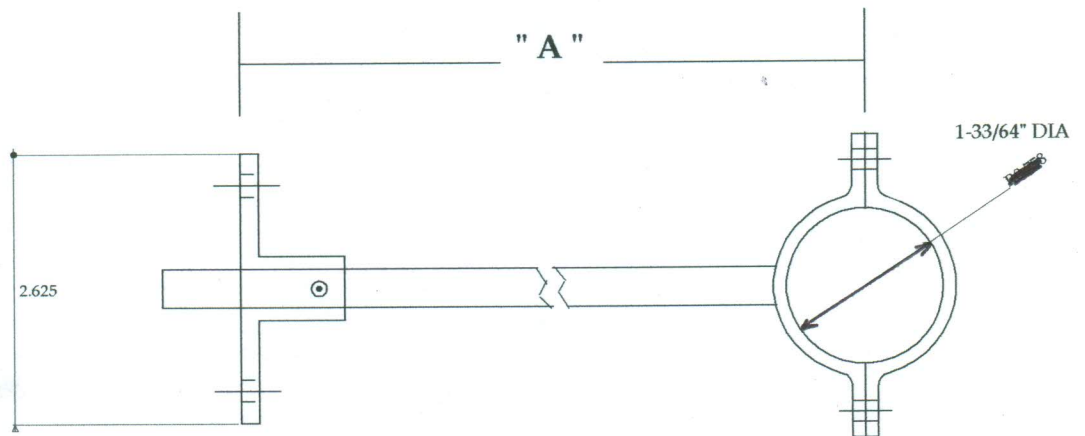


White Racker Co., Inc.

MANUFACTURERS OF
QUALITY PLUMBING, BRASS PRODUCTS AND SPECIALTIES

420 Lively Boulevard
Elk Grove Village, Illinois 60007

Tel: (847) 758-1640
Fax: (847) 758-1741



WRM45 1-1/2" SPLIT RING HOLDER FOR FLUSH VALVES

VARIABLE LENGTH DIM "A"

PART NO:

M45OH3	3.5"
M45OH5	5"
M45OH6	6"
M45OH7	7"
M45OH8	8"
M45OH10	10"
M45OH12	12"

FOR MOUNTING SCREWS
ORDER PART NO: 9105
#10 X 1" CP WOOD SCREWS

FINISH: POLISH CHROME
MATERIAL: BRASS
USA MFG.



Product Specifications

Shape	Elongated
Seat Material	Polypropylene
Seat Form	Open front
Commercial Hinge	Yes
Bolt Material	Stainless steel
Hardware Material	Stainless Steel
Check Hinge	Yes
Cover	No
Custom Gasket	Yes
Color	White

Warranty	1 year limited warranty
----------	-------------------------

Available Colors

White, black, bone, biscuit,

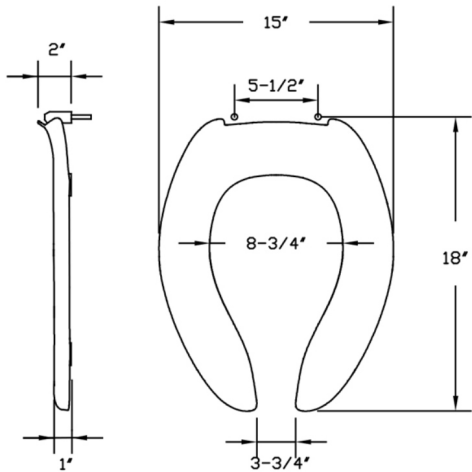
Features

Self Sustaining

Self Sustaining hinge holds commercial seats in place and avoids slamming.

Commercial Hinge

Includes commercial grade hinges. One piece solid metal hinge pin and bolt over molded with plastic.



Dimensions shown are nominal and may vary within a range of tolerance. Product specifications are subject to change without notice.

P-2



Wellcomme™ Ultra

Top spud flushometer bowl
K-96053

Features

- Elongated, Standard height bowl
- 1-1/2" (38 mm) top spud
- 10" x 7" (254 mm x 178 mm) water surface
- 2-1/8" (54 mm) fully glazed trapway
- 10" or 12" (254 or 305 mm) rough-in
- 1.0 gpf (3.8 lpf), 1.1 gpf (4.2 lpf), 1.28 (4.8 lpf), or 1.6 gpf (6.0 lpf) depending on flushometer specified
- Also available with antimicrobial finish K-96053-SS

Material

- Vitreous china

Technology

- Designed to outperform competitors in bowl cleanliness and plug resistance
- Maximum waste removal
- Engineered for toilet seat cover removal
- Excellent bowl rinse
- Engineered to flush effectively in buildings with low supply pressure and flow
- Maximum drain line carry at all flush volumes per ASME standard

Installation

- Replaces Wellcomme K-4350 and Wellworth K-4406. Height and footprint may vary

Included Components

Additional Components:

Bolt cap accessory pack
Spud



Codes/Standards

ASME A112.19.2/CSA B45.1
DOE - Energy Policy Act 1992
EPA WaterSense™
California Energy Commission (CEC)

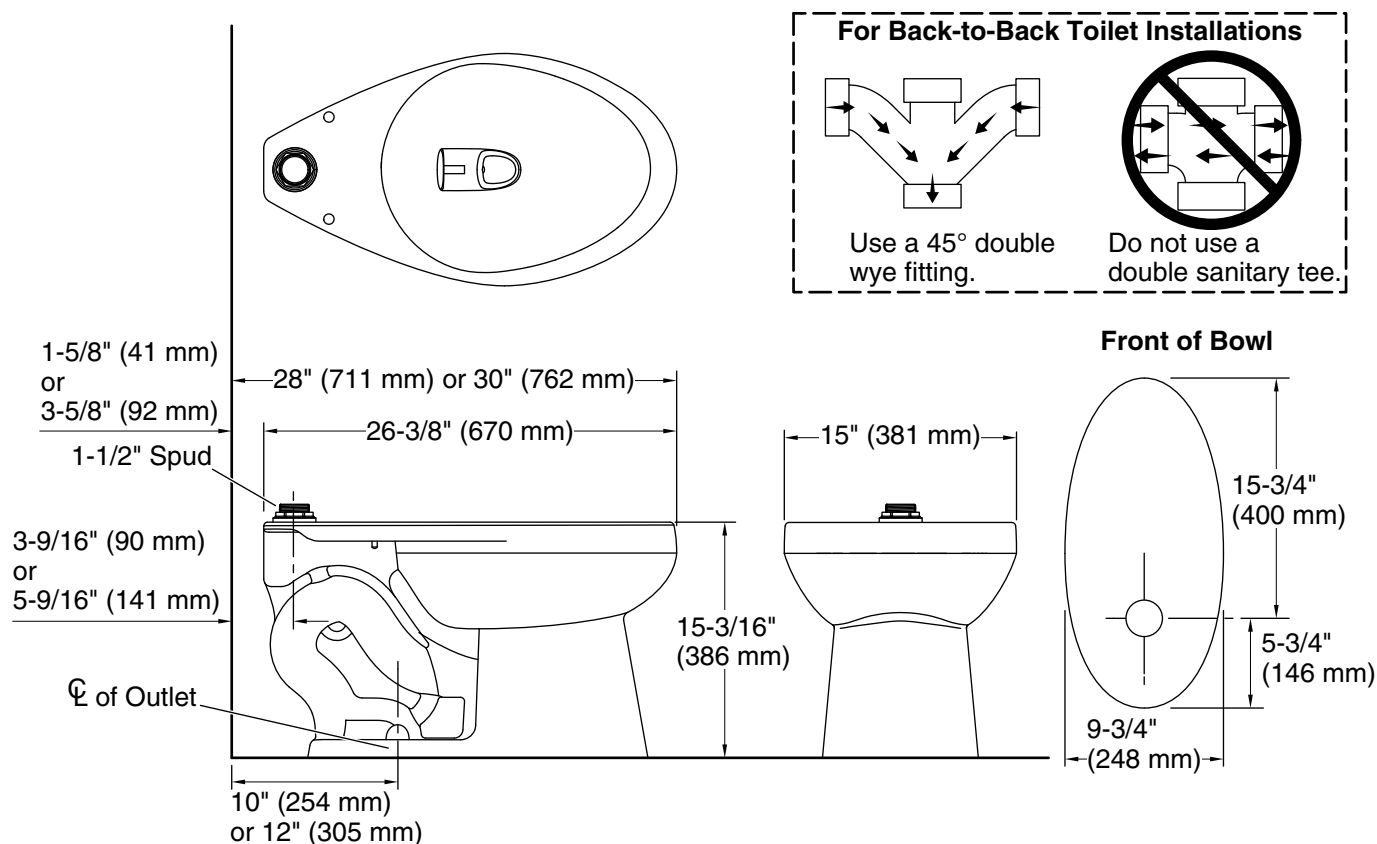
KOHLER® One-Year Limited Warranty

See website for detailed warranty information.

Available Colors/Finishes

Color tiles intended for reference only.

Color	Code	Description
	0	White
	96	Biscuit
	7	Black Black™



Technical Information

All product dimensions are nominal.

Toilet type:	Floor-mount
Waste Outlet:	Floor
Bowl shape:	Elongated
Flush type:	Flushometer valve siphon
Spud size:	1 1/2, Inlet, Top
Trap passageway:	2-1/8" (54 mm)
Water surface size:	10" x 7" (254 mm x 178 mm)
Rim to water surface:	6" (152 mm)
Rough-in:	12" (305 mm)
Seat-mounting holes:	5-1/2" (140 mm)

Fixture Supply Requirements

Min static pressure:	35 psi (241.3 kPa)
Max static pressure:	80 psi (551.6 kPa)
Min flowing pressure:	25 psi (172.4 kPa)

Notes

Install this product according to the installation instructions.

For back-to-back toilet installations: Use only a 45° double wye fitting.

If Fixture Supply Pressure is below 35 psi static, then fixture must be paired with a valve rated at 1.28 gpf or greater.

CODE NUMBER

3780010

DESCRIPTION

1.6 gpf, Dual-Filtered Fixed Bypass Diaphragm, Polished Chrome Finish, Fixture Connection Top Spud, Single Flush, Sloan® Exposed Manual Water Closet Flushometer.

DETAILS

- Flush Volume: 1.6 gpf (6.0 Lpf)
- Finish: Polished Chrome (CP)
- Valve: Diaphragm
- Bypass: Dual-Filtered Fixed Bypass Diaphragm (DFB)
- Valve Body Material: Semi-red Brass
- Fixture Type: Water Closet
- Fixture Connection: Top Spud
- Rough-In Dimension: 11 ½" (292mm)
- Spud Coupling: 1 ½" (38mm)
- Supply Pipe: 1" (25mm)

FEATURES

- High Chloramine Resistant PERMEX® Synthetic Rubber DFB Dual Filtered Bypass Diaphragm
- 1" I.P.S. Screwdriver Bak-Chek® Angle Stop with Vandal Resistant Stop Cap
- Vacuum Breaker with Flush Connection
- Spud Coupling and Spud Flange for 1½" Top Spud
- Sweat Solder Adapter with Cover Tube and Cast Wall Flange
- Non-Hold-Open Handle and No External Volume Adjustment to Ensure Water Conservation
- Diaphragm, Handle Packing and Vacuum Breaker Molded from PERMEX® Rubber Compound for Chloramine Resistance
- ADA Compliant Metal Oscillating Non-Hold-Open Handle



COMPLIANCES & CERTIFICATIONS



(UL Certified, ADA Compliant, cUPC Certified, BAA Compliant)

RECOMMENDED SPECIFICATION

Valve Body, Cover, Tailpiece and Control Stop shall be in conformance with ASTM Alloy Classification for Semi- Red Brass. Valve shall be in compliance with the applicable sections of ASSE 1037 and ANSI/ASME 112.19.2.

VALVE OPERATING PRESSURE (FLOWING)

15–80 PSI (103–552 kPa). Specific fixtures may require greater minimum flowing pressure - consult manufacturer requirements.

DOWNLOADS

- [Sloan Exposed Installation Instructions](#)
- [Sloan Exposed \(Spanish\) Installation Instructions](#)
- [Control Stop Repair and Maintenance Guide](#)
- [Flush Connections Flanges Repair and Maintenance Guide](#)
- [Tail Piece Repair and Maintenance Guide](#)
- [Sloan Flushometer Repair and Maintenance Guide](#)
- [Sloan/Regal ESS Repair and Maintenance Guide](#)
- [Flushometer Pressure gauges](#)
- [Additional Downloads](#)

NOTES

All information contained within this document subject to change without notice.

Looking for other variations of the SLOAN 111 product? [View the general spec sheet with all options.](#)

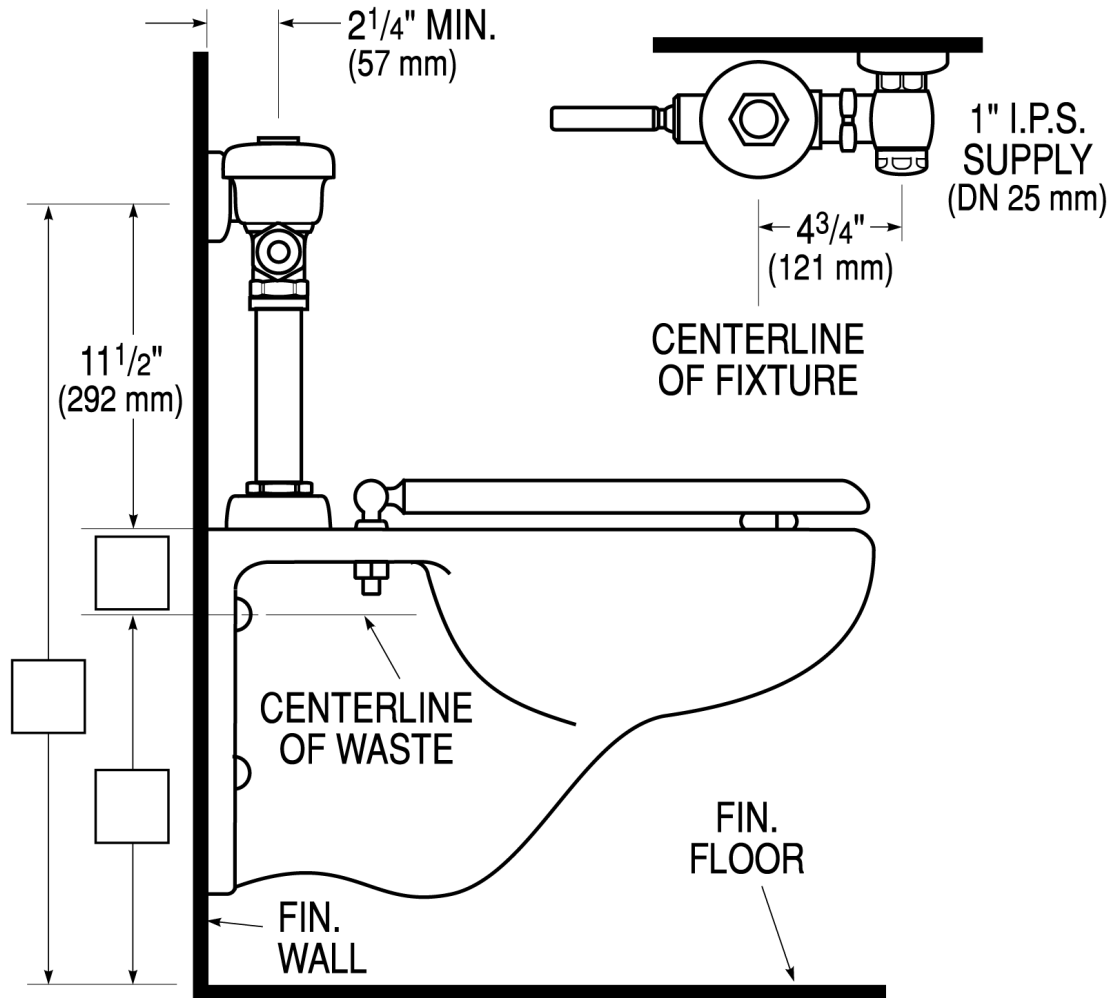
[Find a compatible urinal](#) for this flushometer.

[Find a compatible water closet](#) for this flushometer.

Sloan 10500 Seymour Ave, Franklin Park, IL 60131

Phone: 800.982.5839 • Fax: 800.447.8329 • sloan.com

ROUGH-IN



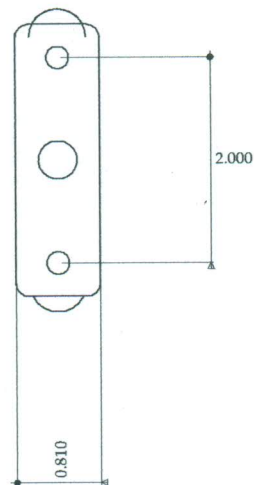
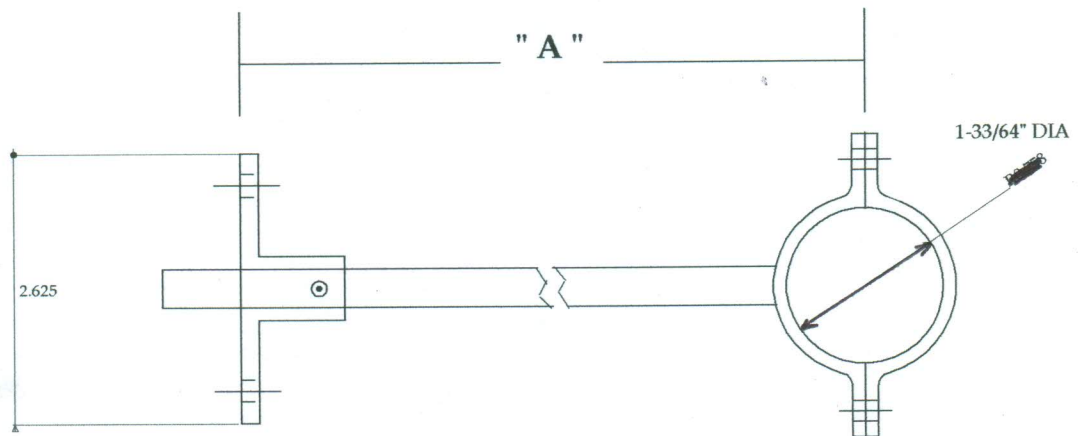


White Racker Co., Inc.

MANUFACTURERS OF
QUALITY PLUMBING, BRASS PRODUCTS AND SPECIALTIES

420 Lively Boulevard
Elk Grove Village, Illinois 60007

Tel: (847) 758-1640
Fax: (847) 758-1741



WRM45 1-1/2" SPLIT RING HOLDER FOR FLUSH VALVES

VARIABLE LENGTH DIM "A"

PART NO:

M45OH3	3.5"
M45OH5	5"
M45OH6	6"
M45OH7	7"
M45OH8	8"
M45OH10	10"
M45OH12	12"

FOR MOUNTING SCREWS
ORDER PART NO: 9105
#10 X 1" CP WOOD SCREWS

FINISH: POLISH CHROME
MATERIAL: BRASS
USA MFG.



Product Specifications

Shape	Elongated
Seat Material	Polypropylene
Seat Form	Open front
Commercial Hinge	Yes
Bolt Material	Stainless steel
Hardware Material	Stainless Steel
Check Hinge	Yes
Cover	No
Custom Gasket	Yes
Color	White

Warranty	1 year limited warranty
----------	-------------------------

Available Colors

White, black, bone, biscuit,

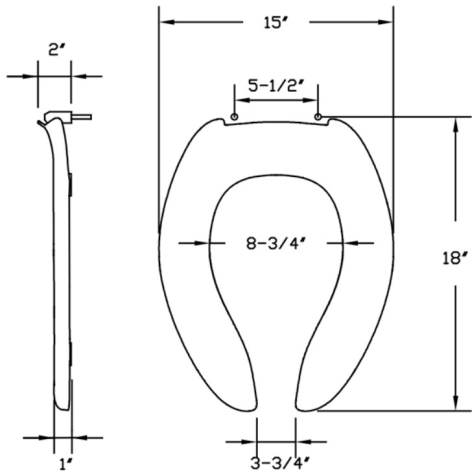
Features

Self Sustaining

Self Sustaining hinge holds commercial seats in place and avoids slamming.

Commercial Hinge

Includes commercial grade hinges. One piece solid metal hinge pin and bolt over molded with plastic.



Dimensions shown are nominal and may vary within a range of tolerance. Product specifications are subject to change without notice.

P-3,4

Features

- Siphon jet
- 3/4" (19 mm) top spud
- 0.5 or 1.0 gpf (1.9 or 3.8 lpf) based on valve selected
- Siphon jet
- Includes inlet and outlet spuds and hangers
- Includes anti-backsplash wall
- 14-1/2" (368 mm) extended rim
- 0.5 or 1.0 gpf (1.9 or 3.8 lpf)

Material

- Vitreous china

Included Components

Additional Components:

- 2" outlet spud
- 3/4" inlet spud
- Hanger(s)



ADA

Codes/Standards

ASME A112.19.2/CSA B45.1
DOE - Energy Policy Act 1992
EPA WaterSense™
ADA
ICC/ANSI A117.1

KOHLER® One-Year Limited Warranty

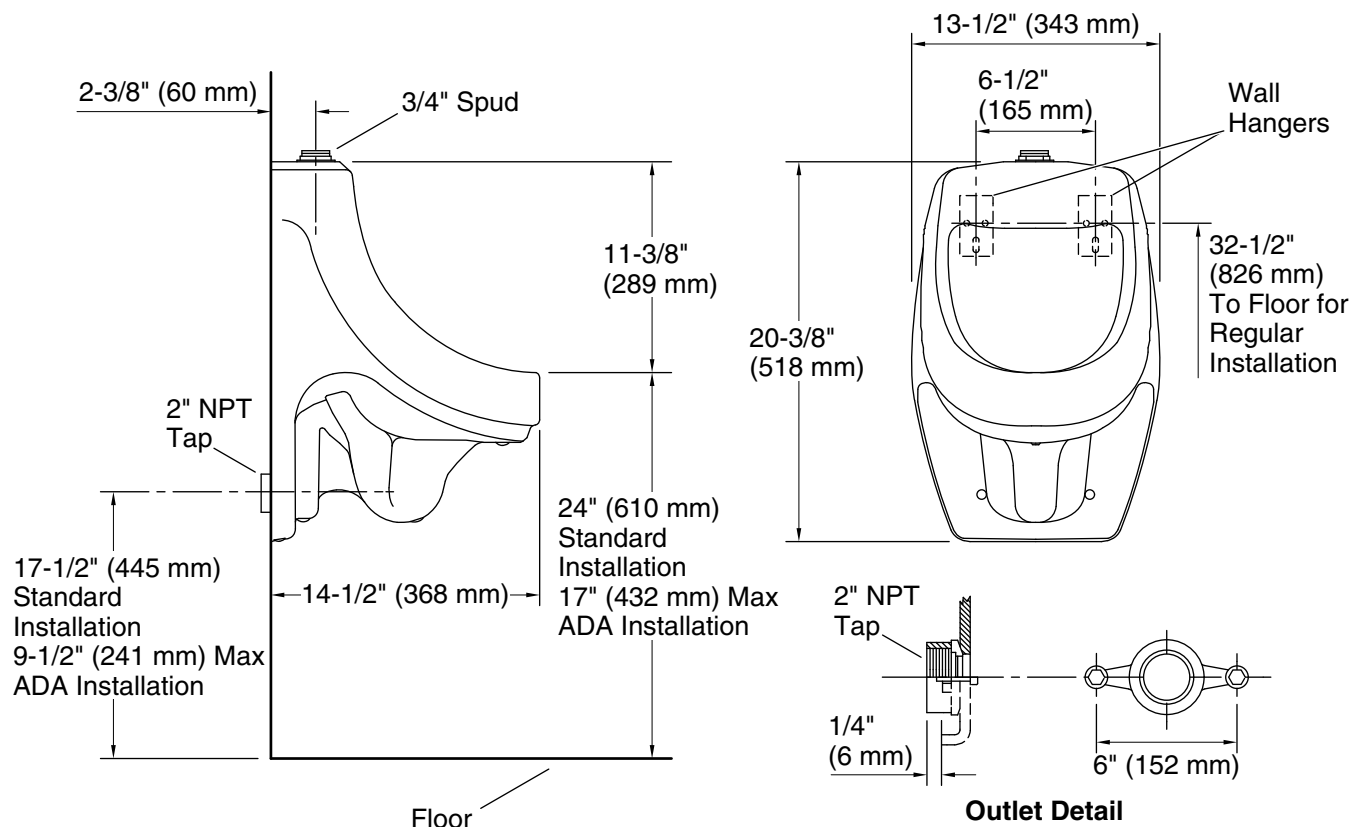
See website for detailed warranty information.

Available Colors/Finishes

Color tiles intended for reference only.

Color	Code	Description
	0	White
	96	Biscuit
	7	Black Black™





Technical Information

All product dimensions are nominal.

Flush outlet technology:	Siphon jet
Spud size:	3/4", Inlet, Top
Min. Water per Flush:	0.5 gal (1.9 L)
Max. Water per Flush:	1 gal (3.8 L)

Designed for the above water use when installed with a water-saving flushometer.

Notes

Install this product according to the installation guide.

Refer to manufacturer's instructions and local codes for flushometer requirements.

Recommended ADA outlet spud height will account for normal product variation.

For ADA compliance, measurement must be 17" (432 mm) or less from the floor to the top of the lip.

ADA compliant when installed to the specific requirements of these regulations.

CODE NUMBER

3782630

DESCRIPTION

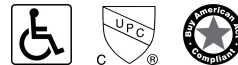
1.0 gpf, Dual-Filtered Fixed Bypass Diaphragm, Polished Chrome Finish, Fixture Connection Top Spud, Single Flush, Sloan® Exposed Manual Urinal Flushometer.

DETAILS

- Flush Volume: 1.0 gpf (3.8 Lpf)
- Finish: Polished Chrome (CP)
- Valve: Diaphragm
- Bypass: Dual-Filtered Fixed Bypass Diaphragm (DFB)
- Valve Body Material: Semi-red Brass
- Fixture Type: Urinal
- Fixture Connection: Top Spud
- Rough-In Dimension: 11 ½" (292mm)
- Spud Coupling: ¾" (19mm)
- Supply Pipe: ¾" (19mm)

FEATURES

- PERMEX® Synthetic Rubber Diaphragm with Dual Filtered Fixed Bypass
- ¾" I.P.S. Screwdriver Bak-Chek® Angle Stop with Vandal Resistant Stop Cap
- Vacuum Breaker with Flush Connection
- Spud Coupling and Spud Flange for ¾" Top Spud
- Sweat Solder Adapter with Cover Tube and Cast Wall Flange
- Non-Hold-Open Handle and No External Volume Adjustment to Ensure Water Conservation
- Diaphragm, Handle Packing and Vacuum Breaker Molded from PERMEX® Rubber Compound for Chloramine Resistance
- ADA Compliant Metal Oscillating Non-Hold-Open Handle

**COMPLIANCES & CERTIFICATIONS**

(ADA Compliant, cUPC Certified, BAA Compliant)

RECOMMENDED SPECIFICATION

Valve Body, Cover, Tailpiece and Control Stop shall be in conformance with ASTM Alloy Classification for Semi- Red Brass. Valve shall be in compliance with the applicable sections of ASSE 1037 and ANSI/ASME 112.19.2.

VALVE OPERATING PRESSURE (FLOWING)

15–80 PSI (103–552 kPa). Specific fixtures may require greater minimum flowing pressure - consult manufacturer requirements.

DOWNLOADS

- [Sloan Exposed Installation Instructions](#)
- [Sloan Exposed \(Spanish\) Installation Instructions](#)
- [Control Stop Repair and Maintenance Guide](#)
- [Flush Connections Flanges Repair and Maintenance Guide](#)
- [Tail Piece Repair and Maintenance Guide](#)
- [Sloan Flushometer Repair and Maintenance Guide](#)
- [Flushometer Pressure gauges](#)
- [Additional Downloads](#)

NOTES

All information contained within this document subject to change without notice.

Looking for other variations of the SLOAN 186 product? [View the general spec sheet with all options.](#)

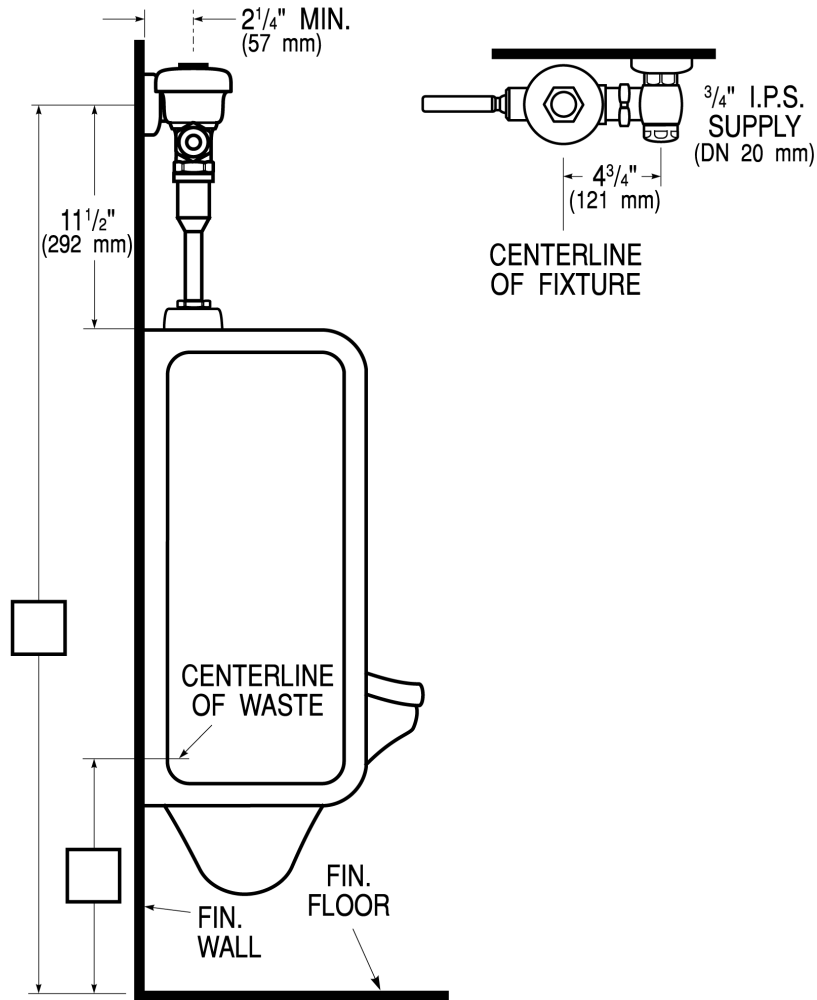
[Find a compatible urinal](#) for this flushometer.

[Find a compatible water closet](#) for this flushometer.

Sloan 10500 Seymour Ave, Franklin Park, IL 60131

Phone: 800.982.5839 • Fax: 800.447.8329 • sloan.com

ROUGH-IN



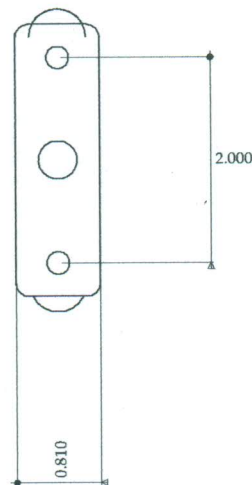
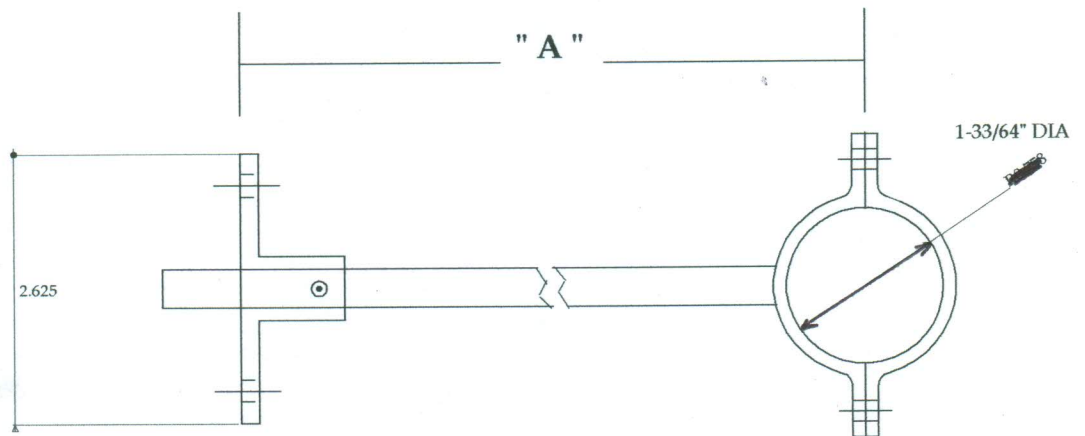


White Racker Co., Inc.

MANUFACTURERS OF
QUALITY PLUMBING, BRASS PRODUCTS AND SPECIALTIES

420 Lively Boulevard
Elk Grove Village, Illinois 60007

Tel: (847) 758-1640
Fax: (847) 758-1741



WRM45 1-1/2" SPLIT RING HOLDER FOR FLUSH VALVES

VARIABLE LENGTH DIM "A"

PART NO:

M45OH3	3.5"
M45OH5	5"
M45OH6	6"
M45OH7	7"
M45OH8	8"
M45OH10	10"
M45OH12	12"

FOR MOUNTING SCREWS
ORDER PART NO: 9105
#10 X 1" CP WOOD SCREWS

FINISH: POLISH CHROME
MATERIAL: BRASS
USA MFG.

CARRIER

M	 SMITH® CUSTOMER DRIVEN SINCE 1926 JAY R. SMITH MFG. CO.® MEMBER OF MORRIS GROUP INTERNATIONAL POST OFFICE BOX 3237 MONTGOMERY, ALABAMA 36109-0237 (USA) TEL: 334-277-8520 FAX: 334-272-7396 www.jrsmith.com MEMBER OF: MEMBER OF:				LOCATION 	
	URINAL SUPPORTS FOR OFF-THE-FLOOR URINALS					
	WITH SUPPORTING STUDS FOR BLOWOUT AND WASHOUT URINALS					
	Fig. 0634 Side View Fig. 0634D Side View					

WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA

DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCE AND CHANGE WITHOUT NOTICE

ROUGH-IN TABLE			Cutout for (Inlet)					
FIXTURE MFG.	NAME	NUMBER	A	B	D	J	K	L
Am. Std.	Allbrook	6545.016	24 (610)	36 1/8 (918)	5 (125)	2 (51)	-	X
Briggs	Rushton	B-6940, 1	24 (610)	28 (710)	7 (180)	3 (76)	X	-
Case	Casco	2325, 6	22 (560)	42 (1065)	6 (150)	1 (25)	-	X
Crane	Expedio	7-101, 3	22 (560)	26 1/2 (675)	5 (125)	3 1/2 (89)	X	-
Crane	Expedio	7-104	22 (560)	26 1/2 (675)	7 (180)	2 (51)	-	-
Crane	Manhattan	7-105, 8	22 (560)	34 1/4 (870)	5 (125)	2 (51)	-	-
Crane	Santo	7-111, 2	22 (560)	34 1/4 (870)	5 (125)	2 (51)	-	-
U. Rundle	Colby	4981	22 (560)	33 1/4 (845)	5 1/2 (140)	2 (51)	-	-
U. Rundle	Celtic	4989, 92	22 (560)	42 1/2 (1080)	7 (180)	1 (25)	-	X
U. Rundle	Colburn	4990	22 (560)	33 1/2 (850)	4 1/4 (110)	2 (51)	-	-
U. Rundle	Challenge	4993, 4	22 (560)	42 3/4 (1085)	7 (180)	1 (25)	-	X

NOTE: All support bases must be securely anchored to a rigid floor and/or other rigid substructure with (4) 1/2" bolts furnished by others.

NOTE: *This dimension can be increased when fixture support is to be installed behind the wall (specify when required and wall thickness).

NOTE: **This dimension can be increased when required (specify wall thickness).

NOTE: Dimensions shown in parentheses are in millimeters.

BASE DETAIL

FIGURE NUMBER

0634

REV.	DATE	DESCRIPTION	BY	CKD. BY	WEIGHT POUNDS	VOLUME CUBIC FEET	FIGURE NUMBER
							0634

P-5



Ladena™

23-1/4" rectangular undermount bathroom sink

K-2215

Features

- Rectangular basin with curved bottom
- Overflow drain
- No faucet holes; requires wall- or counter-mount faucet

Material

- Vitreous china

Installation

- Undermount

Included Components

Additional Components:
1193643



ADA

Codes/Standards

ASME A112.19.2/CSA B45.1
ADA
ICC/ANSI A117.1

KOHLER® One-Year Limited Warranty

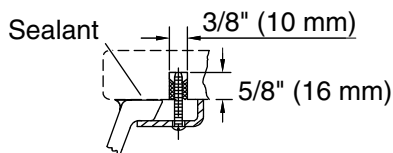
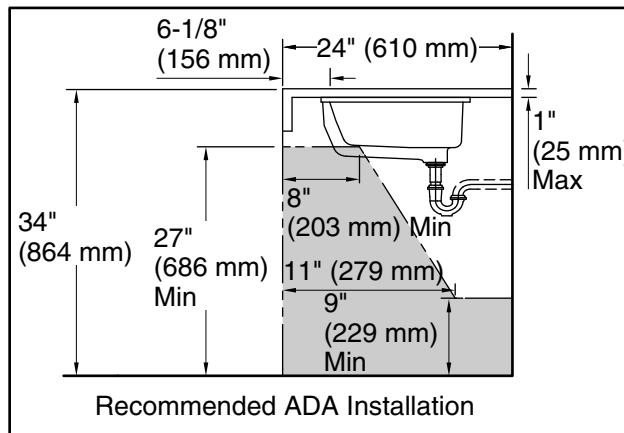
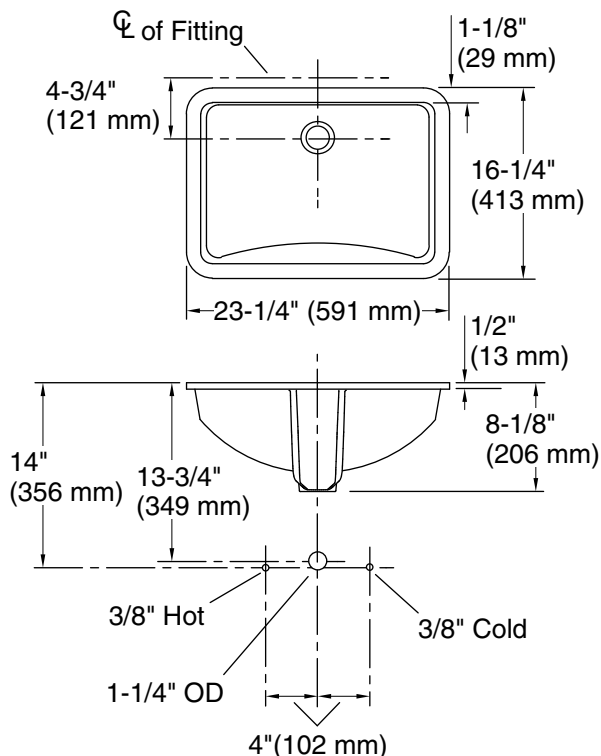
See website for detailed warranty information.

Available Colors/Finishes

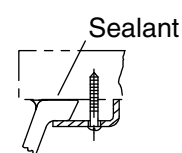
Color tiles intended for reference only.

Color	Code	Description
	0	White
	96	Biscuit
	NY	Dune
	95	Ice™ Grey
	58	Thunder™ Grey
	7	Black Black™





Marble
Installation



Wood
Installation

Technical Information

All product dimensions are nominal.

Installation:	Undermount
Bowl area:	Length: 20-5/8" (524 mm) Width: 13-5/8" (346 mm) With overflow: Yes Water depth: 4-5/8" (117 mm)
Bowl area:	With overflow: Yes
With overflow:	Yes
Drain hole:	1-3/4" (44 mm)
Template:	1002977-7, required, not included

Notes

Install this product according to the installation instructions.

The product diagram is based on the K-8998 adjustable P-trap with 1# (25 mm) of tailpiece exposed.

NOTICE: Countertop manufacturer or cutter must use the current product template available at www.kohler.com, or by calling 1-800-4KOHLER. Kohler Co. is not responsible for cutout errors when the incorrect cutout template is used.

ADA compliant when installed to the specific requirements of these regulations.

Features

- Kinesis™ technology with concealed sensor allows for a clean aesthetic and provides extraordinarily accurate and reliable actuation in varying installation environments
- Below-counter valving reduces the faucet footprint and provides easier service
- Design-forward aesthetic for commercial bathroom spaces
- 0.5 gpm (1.9 lpm) maximum flow rate
- Requires K-13480 single or K-13481 multiple AC adapter unit
- On-demand usage with 30-second max. continual run cycle to prevent vandalism and save water
- Vandal-resistant laminar outlet
- 18" (457 mm) stainless steel braided flexible supply hose for easy installation
- 3-7/8" (98 mm) spout reach
- Grid drain
- Concealed mechanical mixer sold separately
- Complies with the Safe Drinking Water Act (SDWA)
- Includes spout assembly, grid drain, control box assembly, supply hose and standard mounting hardware

Material

- Brass spout
- Cast brass valve

Technology

- Kinesis™ sensor technology offers on-demand detection for maximum water savings

Installation

- Single-hole mounting

Included Components

Additional Components:
7129-A



ADA CSA B651 OBC

Codes/Standards

ASME A112.18.1/CSA B125.1
NSF/ANSI/CAN 61
NSF/ANSI/CAN 372
All applicable US Federal and State material regulations
DOE - Energy Policy Act 1992
California Energy Commission (CEC)
ADA
ICC/ANSI A117.1
CSA B651
OBC

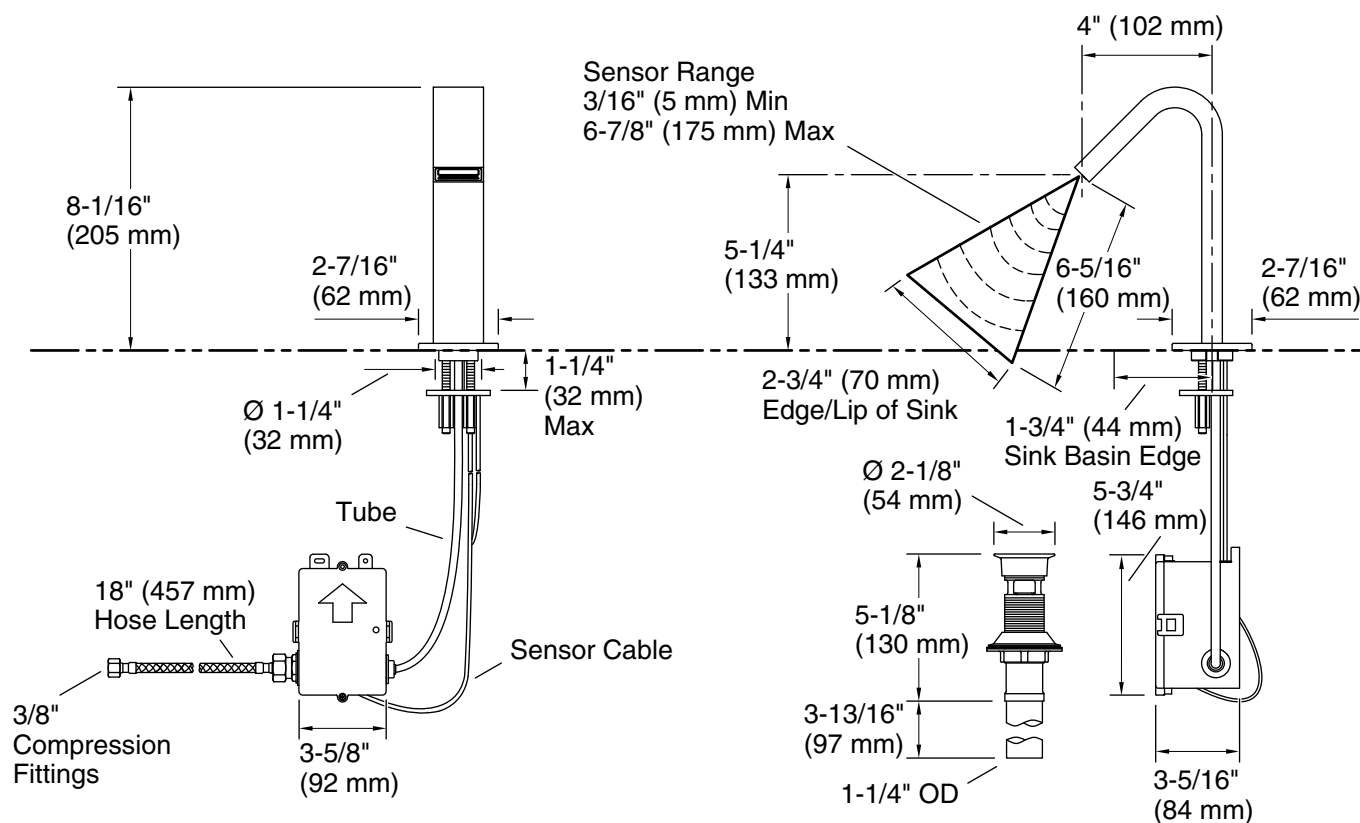
KOHLER® One-Year Limited Warranty

See website for detailed warranty information.

Available Colors/Finishes

Color tiles intended for reference only.

Color	Code	Description
	CP	Polished Chrome



Required Electrical Service

One dedicated circuit required, protected with Class A Ground-Fault Circuit-Interrupter (GFCI). Outside North America, this device may be known as a Residual Current Device (RCD).

120/240 V, 50/60 Hz

Technical Information

All product dimensions are nominal.

Power source: Hardwire - AC and Plug - AC, not included

Faucet:

Flow rate: 0.5 gal/min (1.9 l/min)

Pressure: 60 psi (4.1 bar)

Valve body: Cast brass

Drain included: Yes

Spout:

Spout reach: 3-7/8" (99 mm)

Notes

Install this product according to the installation instructions.

A 1-1/4" (32 mm) minimum to 1-1/2" (38 mm) maximum diameter mounting hole is required.

The minimum distance between the back of the faucet spout and the wall must be 1-3/4" (44 mm). This will allow proper clearance for setscrew access.

The maximum distance between the bathroom sink basin edge to the base of the faucet spout must be 1-3/4" (44 mm).

ADA, OBC, CSA B651 compliant when installed to the specific requirements of these regulations.

Features

- Intended for use with all Insight™ AC-powered deck- and wall-mount touchless faucets. One supply powers one Insight faucet
- Single supply power cord plugs into any North America outlet
- Input for 120 VAC, 50/60- Hertz operation
- Energy Star Efficiency Level VI
- Regulated output of 5 VDC at 1.2 amps
- Intended for use in North America outlets only. For global outlets, please use K-13480-NA

Installation

- 60" (1524 mm) power cord for easy 120-volt installation

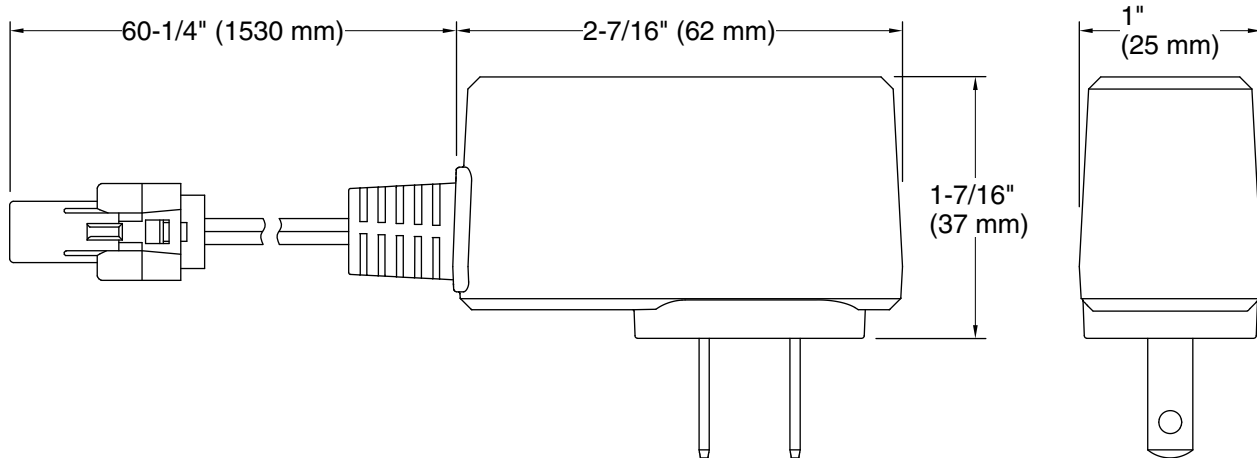


Codes/Standards

UL 1310

KOHLER® One-Year Limited Warranty

See website for detailed warranty information.



Required Electrical Service

One circuit required.

120/240 V, 0.3 A, 50/60 Hz

Technical Information

All product dimensions are nominal.

Material: Plastic

Notes

Install this product according to the installation instructions.

Model ST70

Lead-Free Lavatory Tempering Valve With Integral Mounting Feet

APPLICATION:

The Acorn ST70 is an ASSE 1070 certified, lead-free thermostatic tempering valve that protects against dangerously hot water in any commercial sink or lavatory application. This valve can be used with any type of faucet for maximum flexibility and can accommodate a single lavatory or up to 8 hand washing stations having a 0.5 gpm flow rate.

FEATURES:

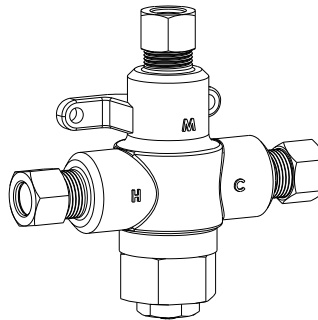
- ✧ Lead-Free certified DZR brass body with corrosion resistant and lead free internal components.
- Valve body available in rough brass or rough chrome plated.
- Integral and cartridge-style checks with accessible screens to prevent backflow and to filter debris from entering the valve.
- Temperature adjustment is made using an Allen wrench. A locknut on the bonnet prevents unauthorized or accidental temperature adjustment.
- Commercial quality paraffin actuator provides repeatable, reliable performance.
- Factory set to 105°F (41°C) and field adjustable.
- Integral mounting Feet

* In accordance with ASSE 1070 as certified by IAPMO
** Under Normal Operating Conditions

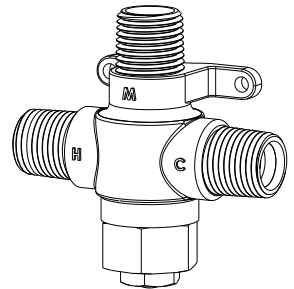
✧ The wetted surface of these valves contacted by consumable water contains less than 0.25% of lead by weight in conformance with national lead free law.

GUIDE SPECIFICATION:

The lavatory tempering valve shall be IAPMO lab certified per ASSE 1070 at 0.25 GPM (1.0 LPM) and CSA standards and shall have a solid brass body with corrosion resistant internal components. It shall include integral checks with screens to prevent backflow and to filter debris from entering the valve. Temperature adjustment shall be made using an allen wrench and a locknut on the bonnet to prevent unauthorized or accidental temperature adjustment. Valve shall provide 4.0 GPM (15 LPM) with 3/8" compression connection and 4.5 GPM (17 LPM) capacity with the 1/2" NPT connection at 45 psi (310 kPa) differential. Temperature range shall be 85°F-115° F (29°C-46° C). Valve shall be Acorn model ST70.



ST70-38



ST70-12



Patent #9,989,017

SPECIFICATIONS:

Valve Specifications:

Maximum Operating Pressure: 125 PSI (861 kPa)

Flow Rate @ 45 psi (310 kpa) differential:

ST70-12: 4.5 GPM (17 LPM)

ST70-38: 4.0 GPM (15 LPM)

Certified Minimum Flow Rate*: 0.25 GPM (1.0 LPM)

Maximum Hot Water Temp: 180°F (82°C)

Minimum Hot Water Supply Temp**: 5°F (3°C)
Above Set Point

Temperature Range*: 85°F-115°F (29°C-46°C)

Connections 1/2" NPT or 3/8" Compression

ST70-12

PRESSURE DROP PSID (kPa)	Cv	5 (34)	10 (69)	15 (103)	20 (138)	30 (207)	45 (310)	60 (414)
FLOW RATE GPM (LPM)	0.7	1.5 (5.7)	2.1 (8)	2.6 (9.8)	3 (11.4)	3.7 (14)	4.5 (17)	5.2 (19.7)

ST70-38

PRESSURE DROP PSID (kPa)	Cv	5 (34)	10 (69)	15 (103)	20 (138)	30 (207)	45 (310)	60 (414)
FLOW RATE GPM (LPM)	0.6	1.3 (5)	1.9 (7.1)	2.3 (8.7)	2.7 (10)	3.3 (12.4)	4 (15)	4.6 (17.5)

Acorn Controls assumes no responsibility for use of void or superseded data. © Copyright Acorn Controls, City of Industry, CA, Division of Acorn Engineering Company, a member of Morris Group International. Please visit www.acorneng.com for most current specifications.

Submission # **ST70**
Revised: 05/30/19

Certifications:



ASSE 1070
CSA B125.3

NSF/ANSI 61
Certified



ACORN ENGINEERING COMPANY
Manufacturer of Engineered Products

Member of Morris Group International™

ACORN ENGINEERING
COMPANY
P.O. BOX 3527
City of Industry, CA
91744, U.S.A.
Phone 800-488-8999
626-336-4561
Fax 626-961-2200
www.acorneng.com

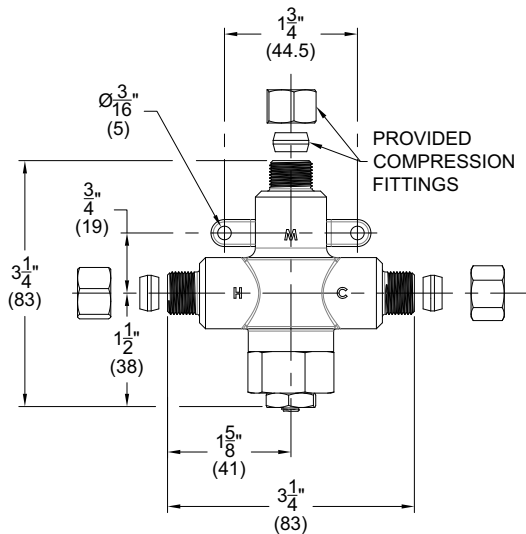
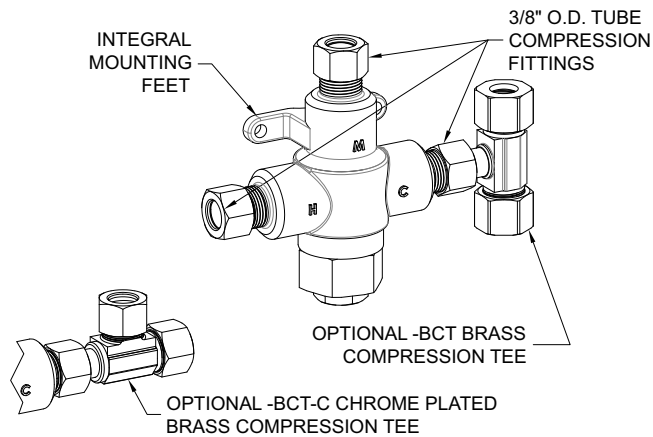
VALVE SELECTION:

- ☐ ST70-12 Brass Valve Body With 1/2" NPT Connections
- ☐ ST70CP-12 Rough Chrome Plated Body Valve With 1/2" NPT Connections
- ☒ ST70-38 Brass Valve Body With 3/8" Compression Connections
- ☐ ST70CP-38 Rough Chrome Plated Valve Body With 3/8" Compression Connections

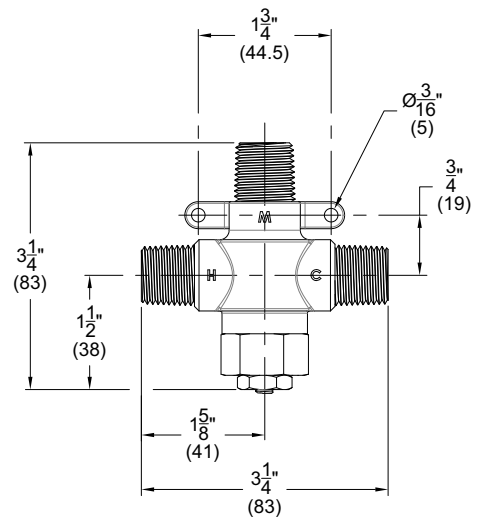
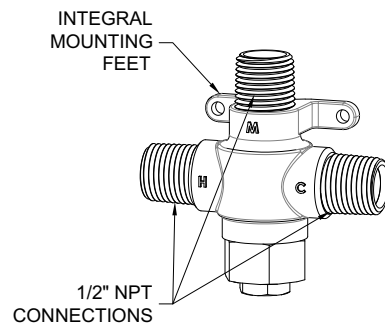
TECHNICAL DIMENSIONS:

ACCESSORIES:

- ☐ -BCT 3/8" Brass Compression Tee
- ☐ -BCT-C 3/8" Brass Compression Tee, Chrome Plated



ST70-38



ST70-12

ST70 Revised: 05/30/19

Acorn Controls warrants that its products are free from defects in material or workmanship under normal use and service for a period of one year from date of shipment. Acorn's liability under this warranty shall be discharged solely by replacement or repair of defective material, provided Acorn is notified in writing within one year from date of shipment, F.O.B. City of Industry, California.

SELECTION SUMMARY
& APPROVAL FOR
MANUFACTURING

Model Number & Options _____ Quantity _____

Company _____

Contact _____ Title _____

Signature (Approval for Manufacturing) _____ Date _____



Est. 1954
ACORN ENGINEERING COMPANY
Manufacturer of Engineered Products

800-488-8999
or 626-336-4561
www.acorneng.com



McGuire Manufacturing Co., Inc.

60 Grandview Court
Cheshire, Connecticut 06410
(203) 699-1801 Fax (203) 699-1813
customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

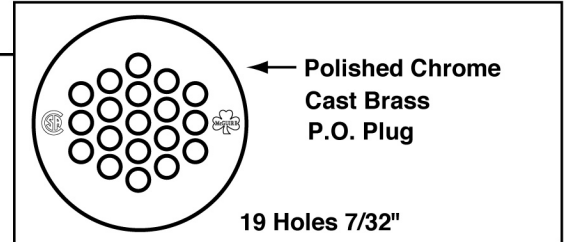
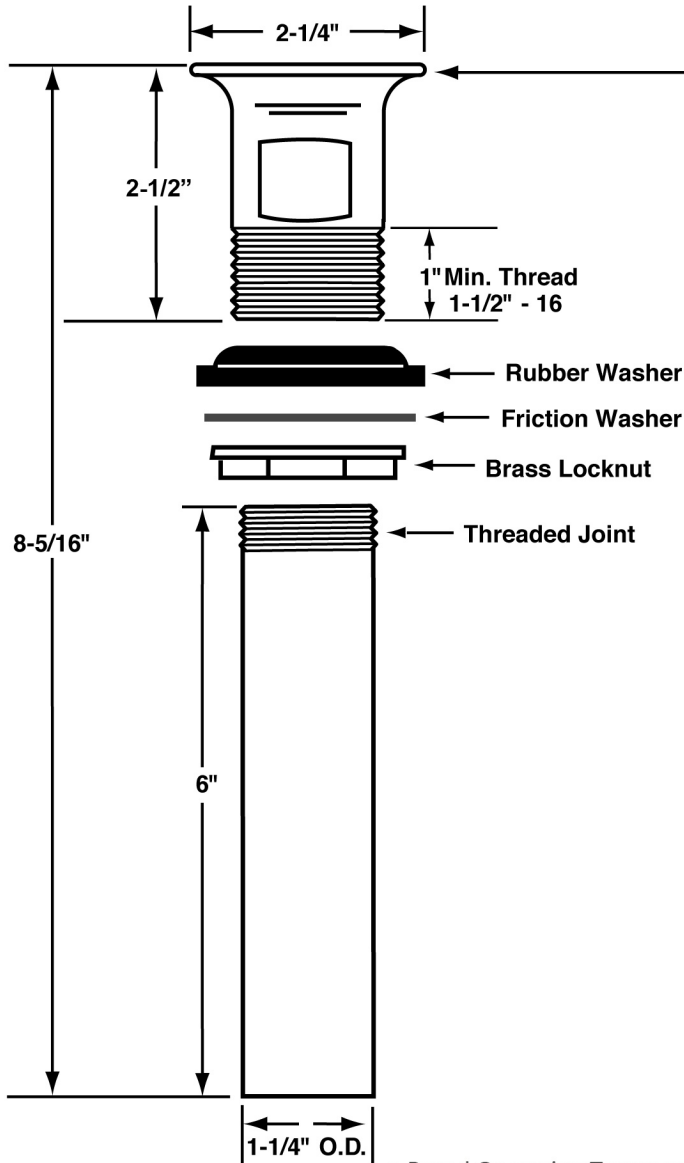
Part No.

155A

Open Grid P.O. Plug

Job Name:

Submittal Number:



- Rated Operating Temperature: 40-140°F
- Note: 180°F max. during temporary high-temperature system flush



See options and accessories section for details on product variations

ASME A112.18.2/CSA B125.2

Specifications:

Cast brass chrome plated open grid P.O. plug with 17GA 1-1/4" x 6" seamless brass tailpiece, brass lock nut, heavy rubber basin washer and fiber friction washer. P.O. plug shall be in compliance with CSA or other recognized testing authority and bear both manufacturer and testing mark.



WARNING:

This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



McGuire Manufacturing Co., Inc.

60 Grandview Court
Cheshire, Connecticut 06410
(203) 699-1801 Fax (203) 699-1813
customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

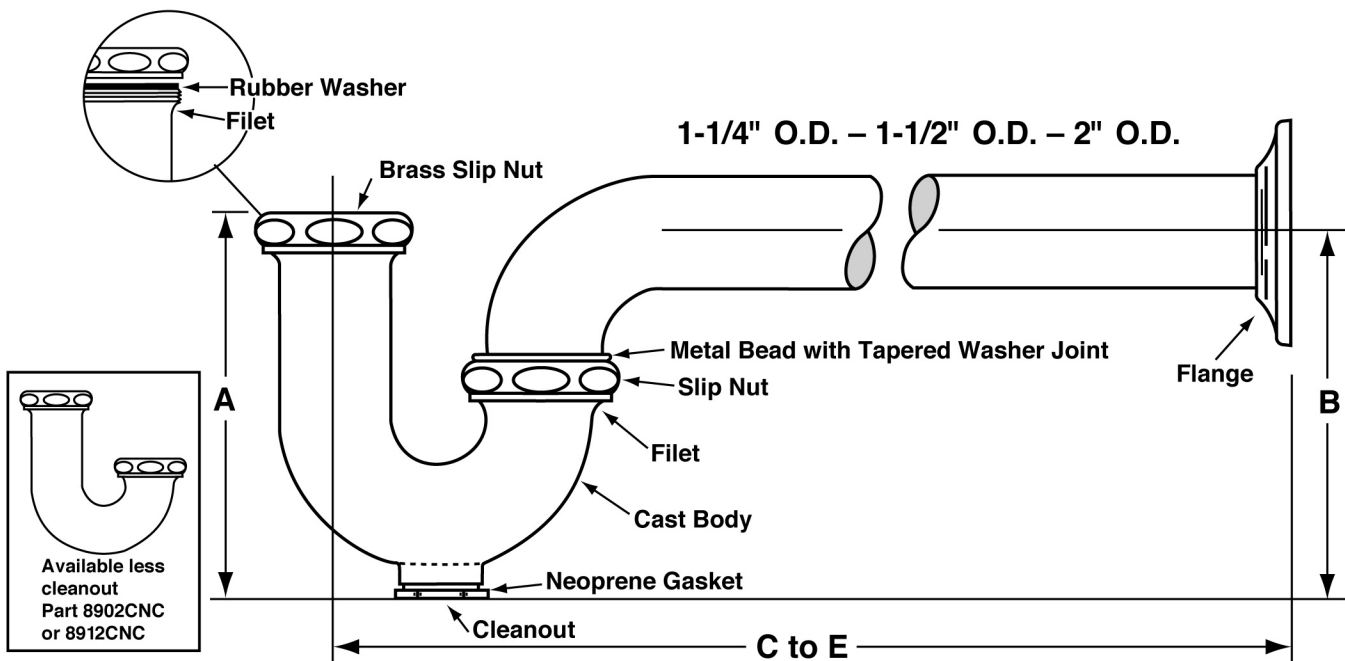
Part No.

8872C

Cast Body P-Trap
With or Without Cleanout

Job Name:

Submittal Number:



PROFESSIONAL LINE

ROUGHING MEASUREMENTS

NO.	TRAP DIMENSIONS		A	B	C to E
	INLET	OUTLET			
8872C	1-1/4"	1-1/4"	4-1/2"	4-1/4"	11-1/2"

- Rated Operating Temperature: 40-140°F
- Note: 180°F max. during temporary high-temperature system flush

FED SPEC W.W.P. 541

CAST BRASS P TRAP

MINIMUM SEAL 2"



See options and accessories section for details on product variations.

ASME A112.18.2/CSA B125-2

Specifications:

P-Trap shall be chrome plated cast brass body (with, without) cleanout, with 17 gauge seamless tubular wall bend, cast brass slip nuts. Reducing washers shall be used with reducing cast brass nut. With (shallow, deep, bell) (steel, brass) or (forged brass with set screw) flange.

P-Trap shall be McGuire "Classic" Professional Line

Trap shall be certified by CSA or other recognized testing authority. Trap shall bear manufacturer and testing marks.



WARNING:

This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



McGuire Manufacturing Co., Inc.

60 Grandview Court

Cheshire, Connecticut 06410

(203) 699-1801 Fax (203) 699-1813

customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

Part No.

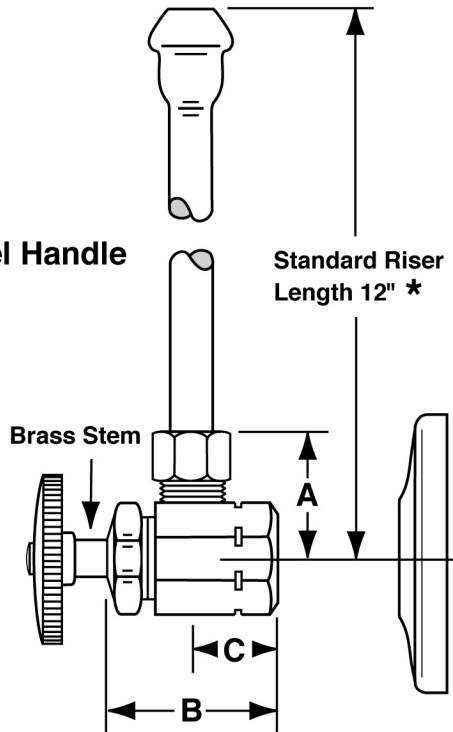
LF2165

Lavatory Supply
1/2" I.P.S. x O.D.

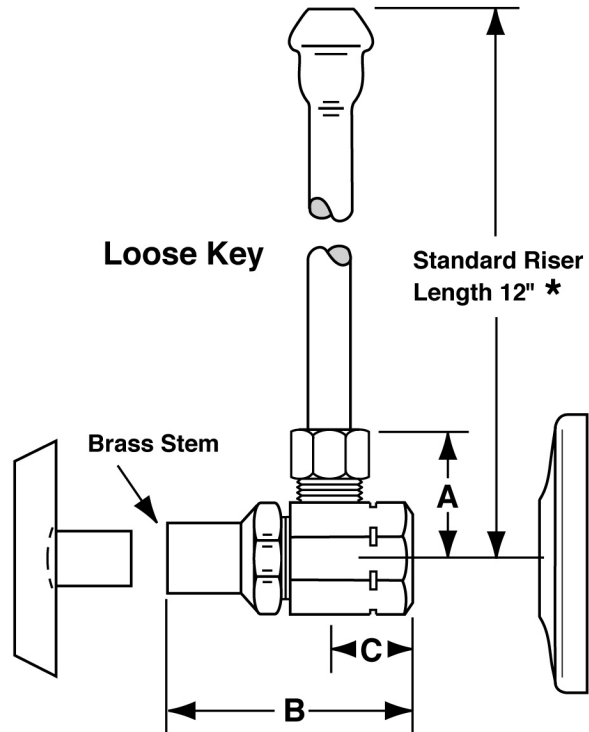
Job Name:

Submittal Number:

Wheel Handle



Loose Key



NO.	DESCRIPTION	ROUGHING MEASUREMENTS		
		A	B	C
LF2165	1/2" I.P.S. x 3/8" O.D.	1-3/16"	1-1/2"	3/4"

LK designates Loose Key

* See options and accessories section for details on product variations.



ASME A112.18.1

Specifications:

Supply kit shall include lead free chrome plated brass supply stop valves with full turn brass stem, no plastic, (12, 15, 20) inch chrome plated risers and (shallow, deep, bell) (steel, brass) or (forged brass with set screw) flange. Inlet shall be (3/8, 1/2) inch (IPS, compression). Outlet shall be (3/8, 1/2) inch compression. Supply kit shall be McGuire. Supply kit shall be certified by recognized authority and bear manufacturer and testing mark.



WARNING:

This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Submittal Sheet

General Description:

LAV GUARD[®] 2E-Z Series waste and supply piping covers satisfy ADA compliance requirements. Built-in E-Z Grip internal fasteners and internal, E-Z Tear-To-Fit trimming feature allow for fast installation without tools. Series #100 E-Z kits are designed to fit on all tubular and cast brass P-trap assemblies. Series #400 kits are the "original" LAV GUARD design and fit schedule 40 ABS and PVC P-trap assemblies — regardless of their geometry or rotational offset. Valve cover completely encloses angle valve and supply tube for both handled and keyed type water stops.

Material	Molded vinyl
Nominal Wall	1/8" constant
Durometer	70 - 80 - Shore A
UV Protection	Will not fade or discolor
Durability	Virtually indestructible
Trimming (E-Z Series)	Internal, E-Z Tear-To-Fit trim feature
Fasteners (E-Z Series)	Internal E-Z Grip fasteners (reusable)
Color	China white
Paintability	Apply Latex paint
Burning Characteristics ASTM D-635	Self extinguished 0 sec (ATB) 0 mm (AEB)
Bacteria/Fungus Resistance	ASTM G21 and G22/ Result: 0 growth
Maintenance	Use common detergents

Antimicrobial Vinyl Minimizes Maintainance

Lav Guard 2 is molded from impact-resistant, stain-resistant, antimicrobial vinyl. Its smooth surface makes it exceptionally easy to clean and maintain.

Manufactured under one or more of the following U.S. or Canadian patents.

Other patents pending.

5,303,730 5,360,031 5,524,669 5,564,463 5,678,598 5,699,828 5,915,412
5,915,413 5,901,739 5,960,820 2,075,324 2,119,427 2,136,027 2,158,083

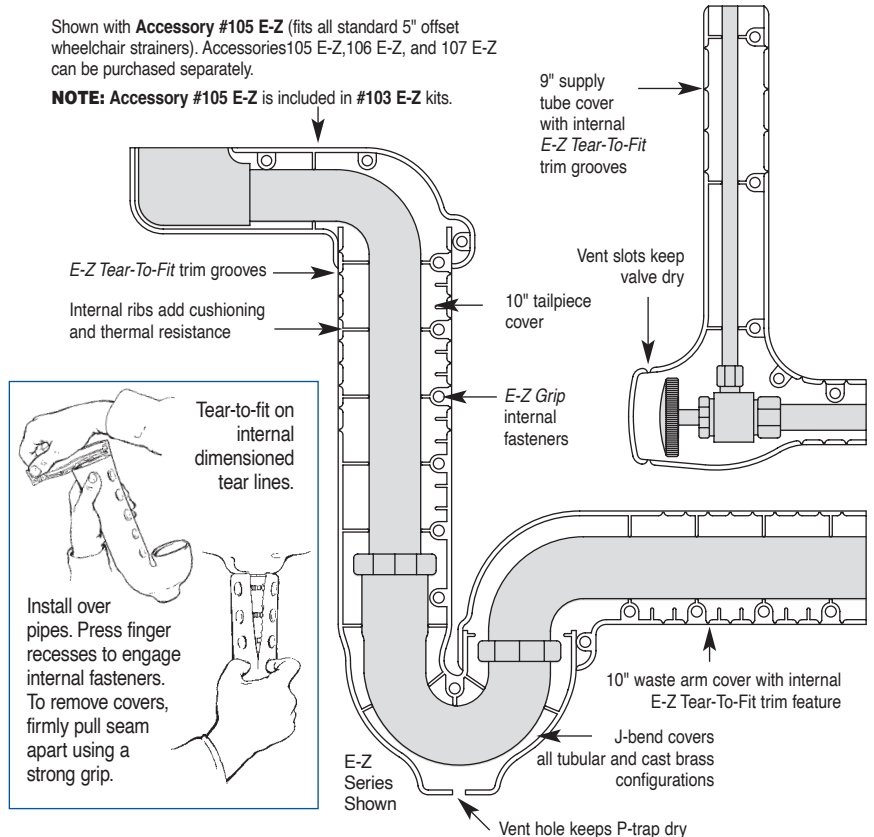


IPS
CORPORATION

500 Distribution Parkway, Collierville, TN 38017 • Phone: 800-888-8312 • Fax: 901-853-5008 • www.ipscorp.com

Shown with **Accessory #105 E-Z** (fits all standard 5" offset wheelchair strainers). Accessories 105 E-Z, 106 E-Z, and 107 E-Z can be purchased separately.

NOTE: Accessory #105 E-Z is included in #103 E-Z kits.



#100 E-Z Series (shown above right) for tubular and cast brass P-trap assemblies.

#400W* Series (original design) for schedule 40 P-trap assemblies.

☐ **Model #99 E-Z**
One angle valve and supply cover

☐ **Model #100 E-Z**
One P-trap cover

☐ **Model #400W***
One P-trap cover

☐ **Model #101 E-Z**
One P-trap cover, one angle valve cover

☐ **Model #401W***
One P-trap cover, one angle valve cover

☒ **Model #102 E-Z**
One P-trap cover, two angle valves and covers

☐ **Model #402W***
One P-trap cover, two angle valves and covers

☐ **Model #103 E-Z**
One P-trap cover, two angle valves and supply covers, one 5" offset tailpiece wheelchair strainer cover

☐ **Accessory #105 E-Z**
One 5" offset tailpiece wheelchair strainer assembly

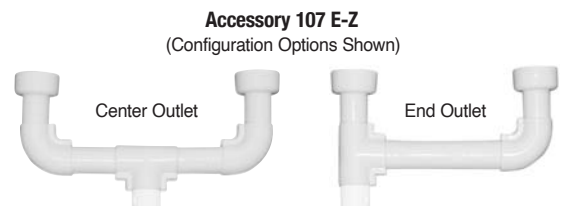
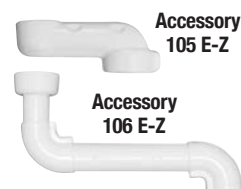
☐ **Accessory #105-K**
Kohler 6" offset

☐ **Accessory #106 E-Z**
One basket strainer cover and offset waste cover (adjustable to 18")

☐ **Accessory #107 E-Z**
Two basket strainer covers and center or end outlet waste cover (adjustable)

☐ **Accessory #Ex99 E-Z**
One 14" extension for water supply

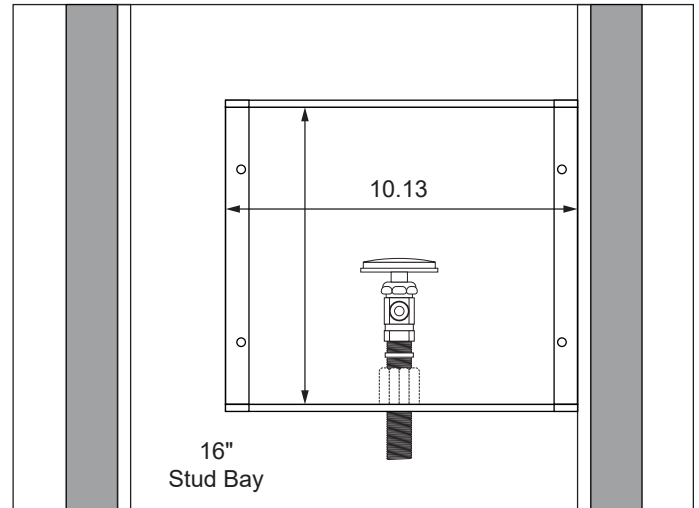
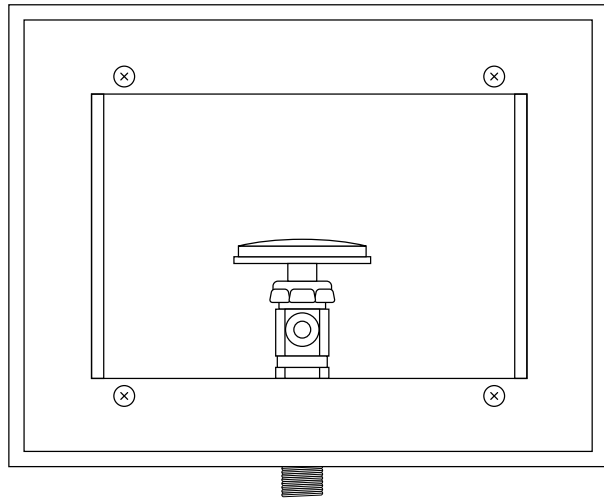
☐ **Accessory #Ex100 E-Z**
One 14" extension for drain waste arm or tailpiece



P-6



Galvanized Ice Maker Box with Lead Free Domestic Valve



SPECIFICATIONS

Furnish and install Guy Gray recessed ice maker outlet box. Ice maker outlet box shall have an AB1953 compliant valve with a 1/2" copper sweat inlet and a 1/4" compression outlet. Unit shall be Guy Gray product code 88158 as manufactured by IPS Corporation in Collierville, TN.

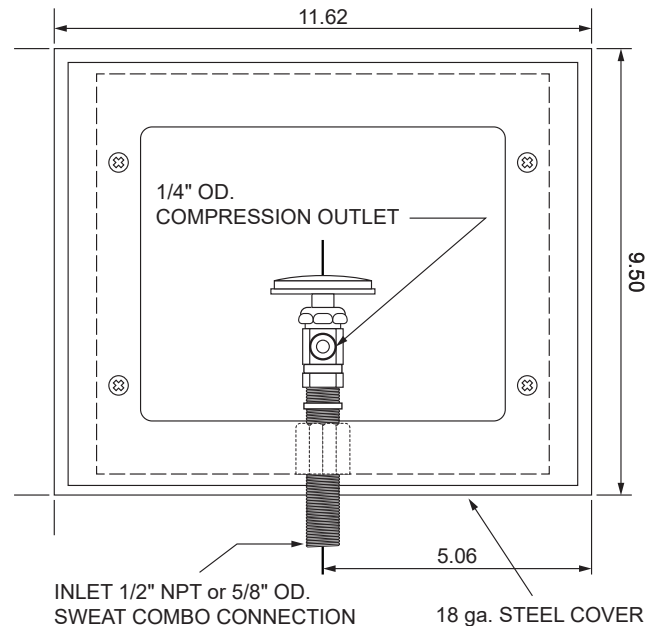
BOX MATERIAL:

G90 Hot Dipped Galvanized Steel (unpainted)
20 gauge box with 20 gauge faceplate

VALVE & DRAIN OPTIONS:

Lead free Domestic Valve with 1/2" MIP/Sweat, CPVC or PEX connection. Valves comply with ASME A112.18.1.

Valves comply with the requirements of NSF 61-G and the "Reduction of Lead in Drinking Water Act" (Federal Public Law 111-380)



Item #	Model #	Product Description	Quantity
88510	BIM875QTSAB	Qtr-turn Valve, 1/2" Sweat Connection	6
X 88158	BIM875AB	Domestic Valve, 1/2" Sweat Connection	6
88512	BIM876QTCAB	Qtr-turn Valve, 1/2" CPVC Connection	6
88514	BIM877QTPAB	Qtr-turn Valve, 1/2" F1807 Connection	6
88517	BIM878QTWAB	Qtr-turn Hammer Arrestor Valve, 1/2" Wirsbo® Connection	6
96997	BTRC	Tamper resistant cover for Models B, BB, WB, FB, & BIM	6

*Frames packed separately from boxes and mounting flanges for protection and safe keeping until finishing stage.



500 Distribution Parkway, Collierville, TN 38017 • Phone: 800-888-8312 • Fax: 901-853-5008 • www.ipscorp.com

P-7



Vault™
24" undermount single-bowl kitchen sink
K-3894

Features

- 27" (686 mm) minimum base cabinet width
- Single bowl
- 6" (152 mm) depth
- Rear drain placement increases vanity cabinet storage space underneath sink
- Countertop thickness cannot be greater than 1" (25 mm) for ADA compliance
- Includes installation hardware

Material

- Handcrafted from 18-gauge stainless steel
- Premium 18-gauge stainless steel

Installation

- Undermount

Included Components

Additional Components:
91915



ADA

Codes/Standards

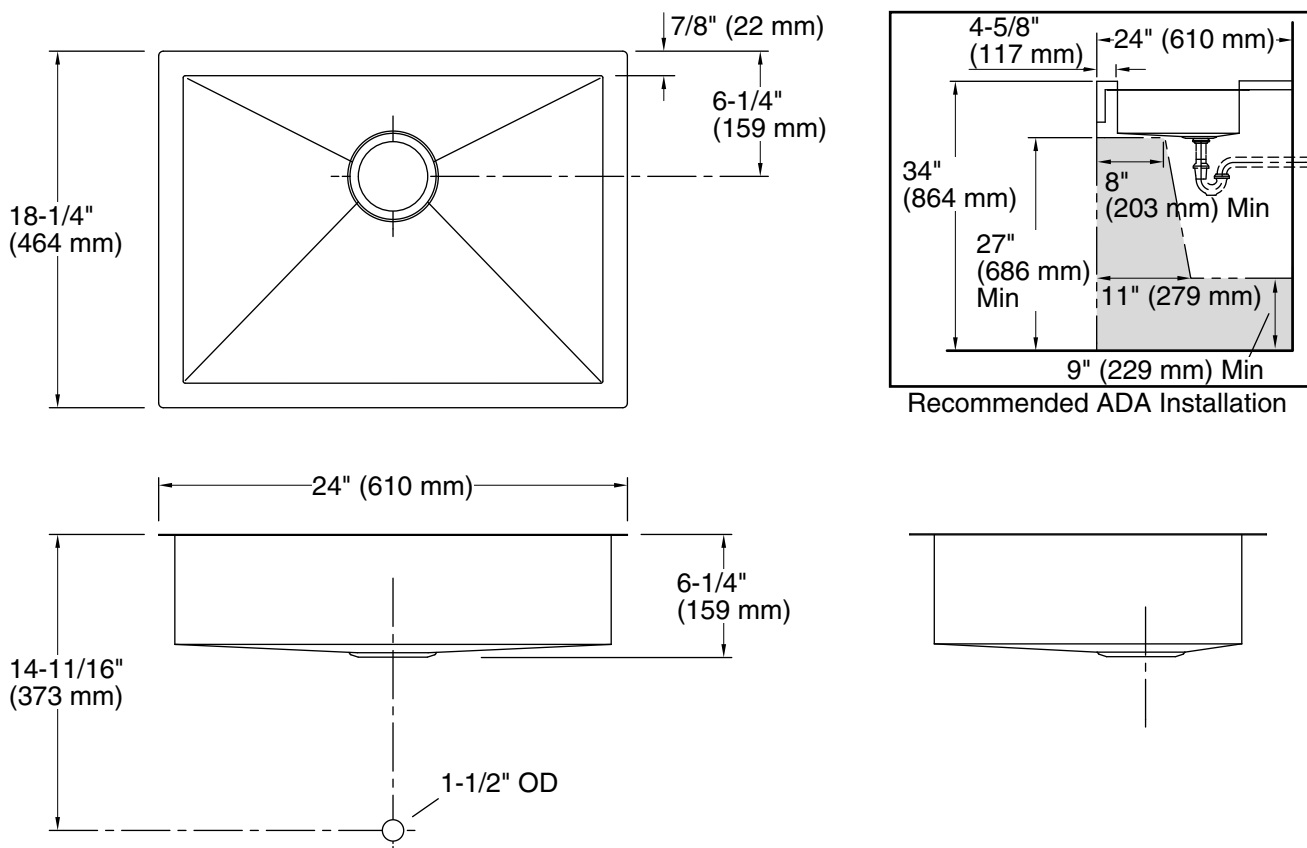
ASME A112.19.3/CSA B45.4
ADA
ICC/ANSI A117.1

KOHLER® Stainless Steel Sinks
Lifetime Limited Warranty

See website for detailed warranty information.



Vault™
24" undermount single-bowl kitchen sink
K-3894



Technical Information

All product dimensions are nominal.

Bowl configuration:	Single
Installation:	Undermount
Min. base cabinet width:	27" (686 mm)
Bowl area (Only):	Length: 22-1/4" (565 mm) Width: 16-9/16" (420 mm) Bowl depth: 6" (152 mm) Water depth: 6" (152 mm)
Drain hole:	3-3/4" (95 mm)
Template:	1207218-7, required, included

Notes

Install this product according to the installation instructions.

Allow 3/4" (19 mm) clearance beyond the back of the bowl for the wood cutting board (optional accessory).

ADA compliant when installed to the specific requirements of these regulations.

Features

- Three-function pull-out sprayhead with touch-control allows you to switch between spray, laminar flow, and pause
- KOHLER® ceramic disc valves exceed industry longevity standards for a lifetime of durable performance
- ProMotion® technology's light, quiet braided hose and swiveling ball joint make the pull-down sprayhead easier and more comfortable to use
- MasterClean™ sprayface features an easy-to-clean surface that withstands mineral buildup
- High-arch gooseneck spout and 360° spout rotation offer superior clearance for filling pots and cleaning
- Single lever handle is simple to use and makes adjusting water temperature easy
- Temperature memory allows faucet to be turned on and off at the temperature set during prior usage
- 1.5 gpm (5.7 lpm) maximum flow rate at 60 psi (4.14 bar)

Material

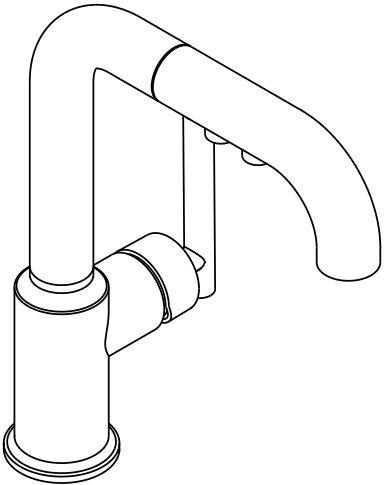
- Premium metal construction for durability and reliability
- KOHLER® finishes resist corrosion and tarnishing

Installation

- For single-hole installation
- Flexible supply lines simplify installation

Recommended Products/Accessories

- K-77685 Single-Cartridge Water Filtration System
- K-77686 Double-Cartridge Water Filtration System
- K-77687 single replacement filter cartridge
- K-77688 Replacement Filter Cartridges, Two-Pack
- K-23723 Faucet cleaner



ADA

CSA B651

Codes/Standards

ASME A112.18.1/CSA B125.1
NSF/ANSI/CAN 61
NSF/ANSI/CAN 372
All applicable US Federal and State material regulations
DOE - Energy Policy Act 1992
California Energy Commission (CEC)
ADA
ICC/ANSI A117.1
CSA B651

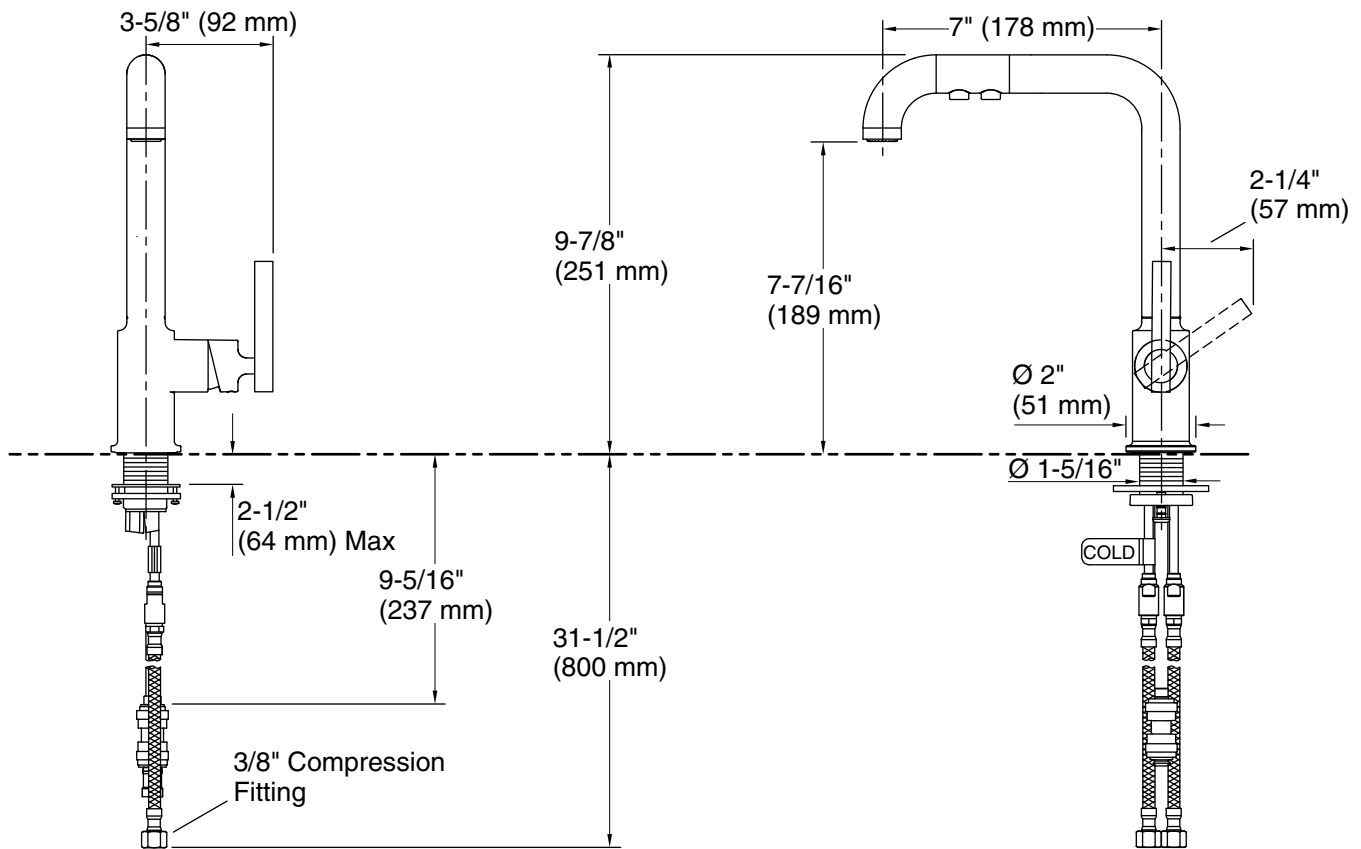
KOHLER® Faucet Lifetime Limited
Warranty

See website for detailed warranty information.

Available Colors/Finishes

Color tiles intended for reference only.

Color	Code	Description
	CP	Polished Chrome
	SN	Vibrant® Polished Nickel
	VS	Vibrant® Stainless
	BL	Matte Black
	2MB	Vibrant® Brushed Moderne Brass



Technical Information

All product dimensions are nominal.

Notes

Install this product according to the installation guide.

ADA complaint for faucet handles only.

ADA, CSA B651 compliant when installed to the specific requirements of these regulations.

Model ST70

Lead-Free Lavatory Tempering Valve With Integral Mounting Feet

APPLICATION:

The Acorn ST70 is an ASSE 1070 certified, lead-free thermostatic tempering valve that protects against dangerously hot water in any commercial sink or lavatory application. This valve can be used with any type of faucet for maximum flexibility and can accommodate a single lavatory or up to 8 hand washing stations having a 0.5 gpm flow rate.

FEATURES:

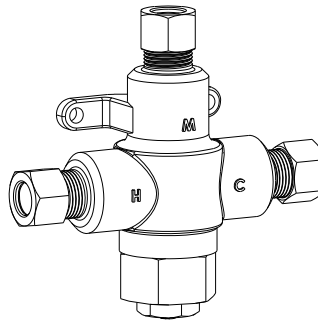
- ✧ Lead-Free certified DZR brass body with corrosion resistant and lead free internal components.
- Valve body available in rough brass or rough chrome plated.
- Integral and cartridge-style checks with accessible screens to prevent backflow and to filter debris from entering the valve.
- Temperature adjustment is made using an Allen wrench. A locknut on the bonnet prevents unauthorized or accidental temperature adjustment.
- Commercial quality paraffin actuator provides repeatable, reliable performance.
- Factory set to 105°F (41°C) and field adjustable.
- Integral mounting Feet

* In accordance with ASSE 1070 as certified by IAPMO
** Under Normal Operating Conditions

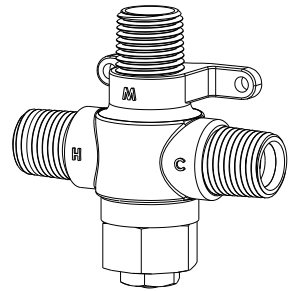
✧ The wetted surface of these valves contacted by consumable water contains less than 0.25% of lead by weight in conformance with national lead free law.

GUIDE SPECIFICATION:

The lavatory tempering valve shall be IAPMO lab certified per ASSE 1070 at 0.25 GPM (1.0 LPM) and CSA standards and shall have a solid brass body with corrosion resistant internal components. It shall include integral checks with screens to prevent backflow and to filter debris from entering the valve. Temperature adjustment shall be made using an allen wrench and a locknut on the bonnet to prevent unauthorized or accidental temperature adjustment. Valve shall provide 4.0 GPM (15 LPM) with 3/8" compression connection and 4.5 GPM (17 LPM) capacity with the 1/2" NPT connection at 45 psi (310 kPa) differential. Temperature range shall be 85°F-115° F (29°C-46° C). Valve shall be Acorn model ST70.



ST70-38



ST70-12



Patent #9,989,017

SPECIFICATIONS:

Valve Specifications:

Maximum Operating Pressure: 125 PSI (861 kPa)

Flow Rate @ 45 psi (310 kpa) differential:

ST70-12: 4.5 GPM (17 LPM)

ST70-38: 4.0 GPM (15 LPM)

Certified Minimum Flow Rate*: 0.25 GPM (1.0 LPM)

Maximum Hot Water Temp: 180°F (82°C)

Minimum Hot Water Supply Temp**: 5°F (3°C)
Above Set Point

Temperature Range*: 85°F-115°F (29°C-46°C)

Connections 1/2" NPT or 3/8" Compression

ST70-12

PRESSURE DROP PSID (kPa)	Cv	5 (34)	10 (69)	15 (103)	20 (138)	30 (207)	45 (310)	60 (414)
FLOW RATE GPM (LPM)	0.7	1.5 (5.7)	2.1 (8)	2.6 (9.8)	3 (11.4)	3.7 (14)	4.5 (17)	5.2 (19.7)

ST70-38

PRESSURE DROP PSID (kPa)	Cv	5 (34)	10 (69)	15 (103)	20 (138)	30 (207)	45 (310)	60 (414)
FLOW RATE GPM (LPM)	0.6	1.3 (5)	1.9 (7.1)	2.3 (8.7)	2.7 (10)	3.3 (12.4)	4 (15)	4.6 (17.5)

Acorn Controls assumes no responsibility for use of void or superseded data. © Copyright Acorn Controls, City of Industry, CA, Division of Acorn Engineering Company, a member of Morris Group International. Please visit www.acorneng.com for most current specifications.

Submission # **ST70**
Revised: 05/30/19

Certifications:



ASSE 1070
CSA B125.3

NSF/ANSI 61
Certified



Est. 1954
ACORN ENGINEERING COMPANY
Manufacturer of Engineered Products

Member of Morris Group International™

ACORN ENGINEERING
COMPANY
P.O. BOX 3527
City of Industry, CA
91744, U.S.A.
Phone 800-488-8999
626-336-4561
Fax 626-961-2200
www.acorneng.com

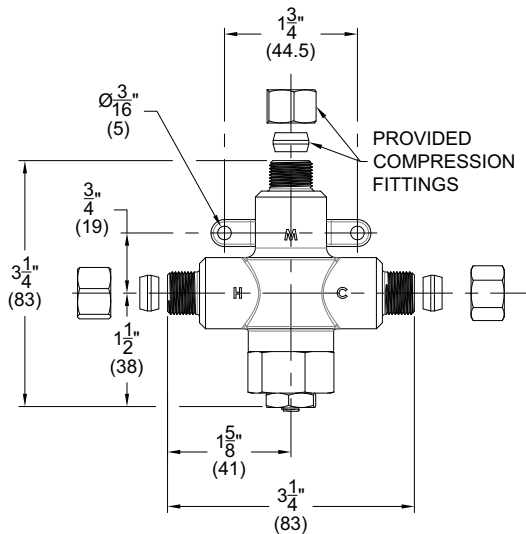
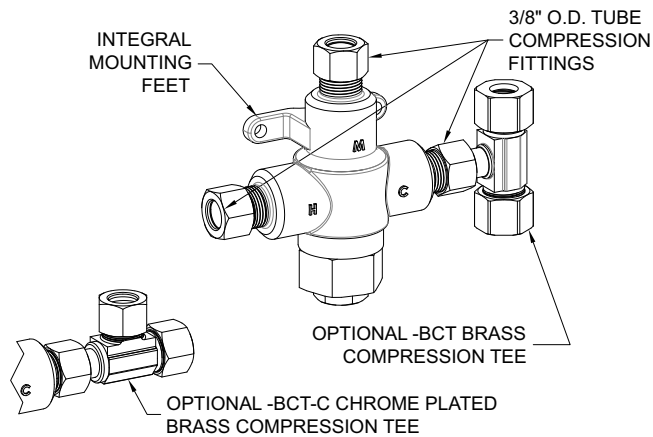
VALVE SELECTION:

- ☐ ST70-12 Brass Valve Body With 1/2" NPT Connections
- ☐ ST70CP-12 Rough Chrome Plated Body Valve With 1/2" NPT Connections
- ☒ ST70-38 Brass Valve Body With 3/8" Compression Connections
- ☐ ST70CP-38 Rough Chrome Plated Valve Body With 3/8" Compression Connections

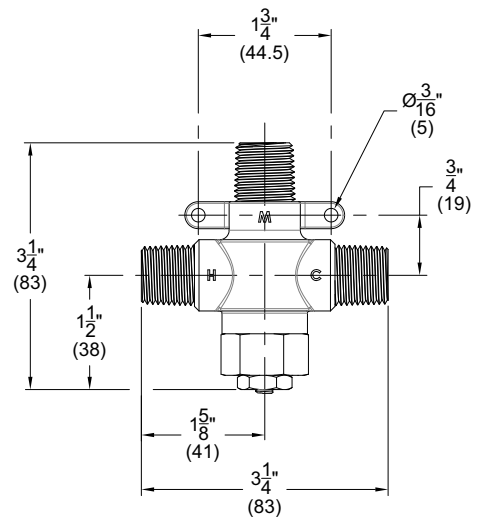
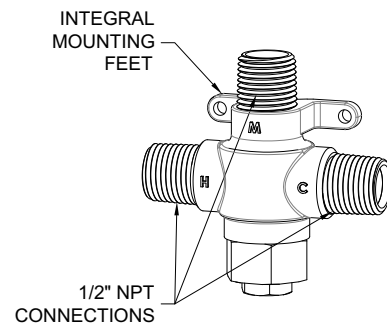
ACCESSORIES:

- ☐ -BCT 3/8" Brass Compression Tee
- ☐ -BCT-C 3/8" Brass Compression Tee, Chrome Plated

TECHNICAL DIMENSIONS:



ST70-38



ST70-12

ST70 Revised: 05/30/19

Acorn Controls warrants that its products are free from defects in material or workmanship under normal use and service for a period of one year from date of shipment. Acorn's liability under this warranty shall be discharged solely by replacement or repair of defective material, provided Acorn is notified in writing within one year from date of shipment, F.O.B. City of Industry, California.

SELECTION SUMMARY
& APPROVAL FOR
MANUFACTURING

Model Number & Options _____ Quantity _____

Company _____

Contact _____ Title _____

Signature (Approval for Manufacturing) _____ Date _____



Est. 1954
ACORN ENGINEERING COMPANY
Manufacturer of Engineered Products

800-488-8999
or 626-336-4561
www.acorneng.com



McGuire Manufacturing Co., Inc.

60 Grandview Court

Cheshire, Connecticut 06410

(203) 699-1801 Fax (203) 699-1813

customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

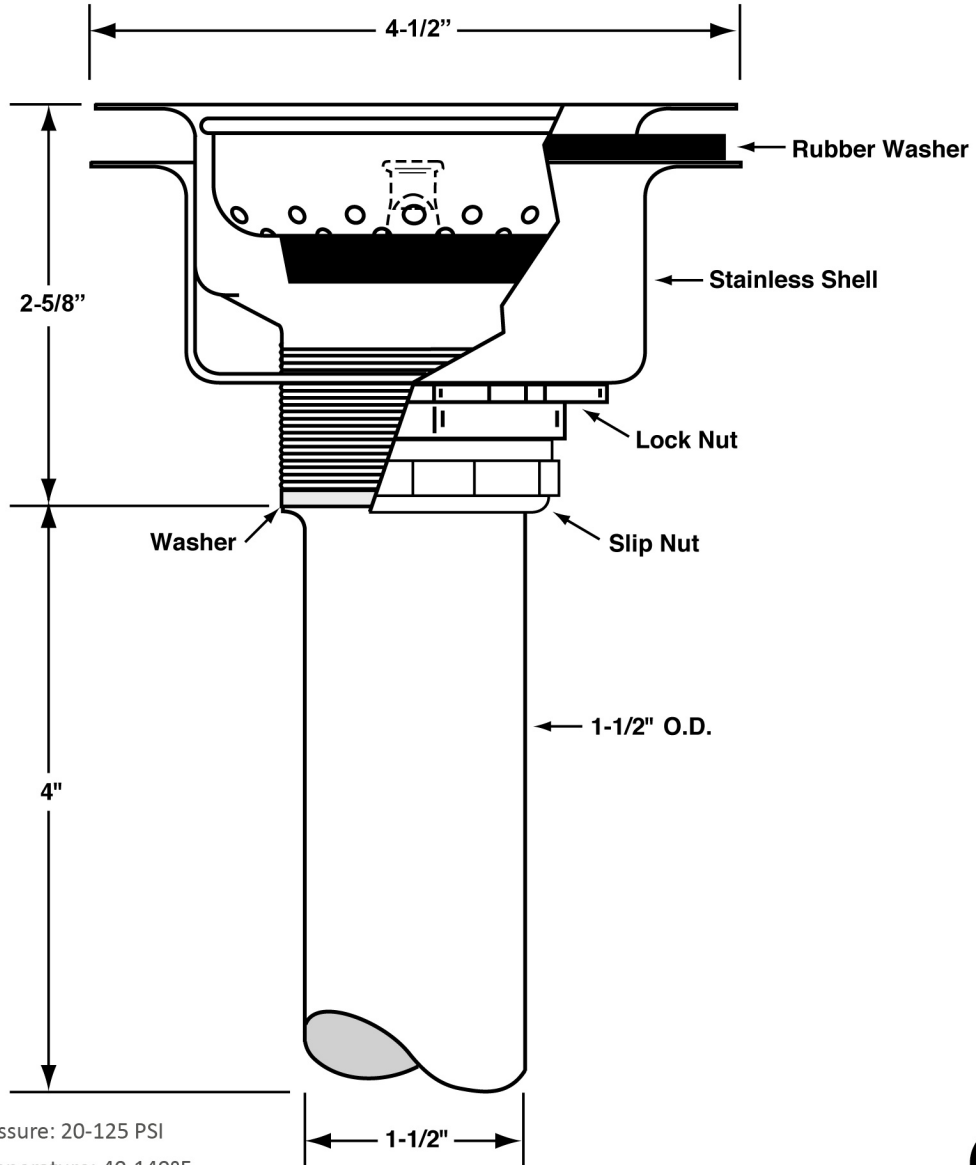
Part No.

151A

Stainless Steel
Basket Strainer

Job Name:

Submittal Number:



- Rated Operating Pressure: 20-125 PSI
- Rated Operating Temperature: 40-140°F
- Note: 180°F max. during temporary high-temperature system flush

See options and accessories section for details on product variations.



ASME A112.18.2/CSA B125.2

Specifications:

Heavy Duty Forged Stainless Steel Basket Strainer with 1-1/2" x 4" seamless brass tailpiece, die cast slip and lock nuts. Basket Strainer shall be in compliance with CSA or other recognized testing authority and bear both manufacturer and testing mark.



WARNING:

This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



McGuire Manufacturing Co., Inc.

60 Grandview Court

Cheshire, Connecticut 06410

(203) 699-1801 Fax (203) 699-1813

customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

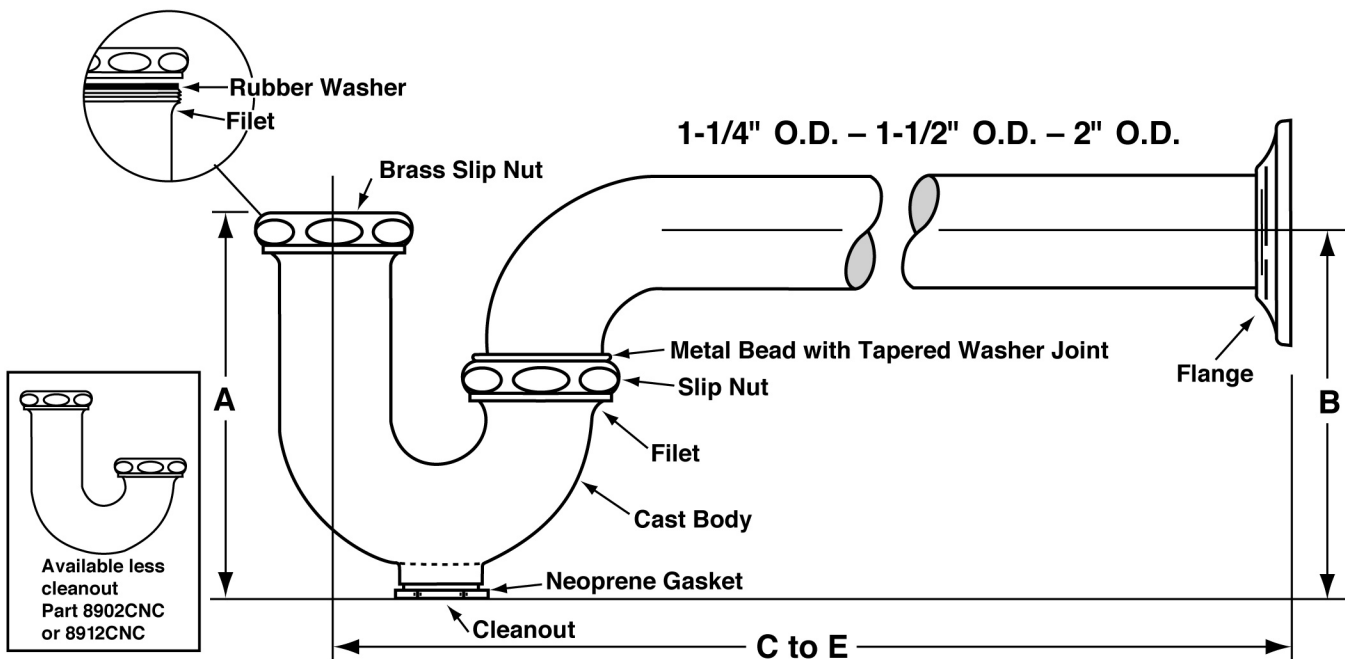
Part No.

8912C

Cast Body P-Trap
With or Without Cleanout

Job Name:

Submittal Number:



PROFESSIONAL LINE

ROUGHING MEASUREMENTS

NO.	TRAP DIMENSIONS		A	B	C to E
	INLET	OUTLET			
8912C	1-1/2"	1-1/2"	5"	5-1/2"	11-1/2"

- Rated Operating Temperature: 40-140°F
- Note: 180°F max. during temporary high-temperature system flush

FED SPEC W.W.P. 541

CAST BRASS P TRAP **MINIMUM SEAL 2"**

See options and accessories section for details on product variations.

ASME A112.18.2/CSA B125-2



Specifications:

P-Trap shall be chrome plated cast brass body (with, without) cleanout, with 17 gauge seamless tubular wall bend, cast brass slip nuts. Reducing washers shall be used with reducing cast brass nut. With (shallow, deep, bell) (steel, brass) or (forged brass with set screw) flange.

P-Trap shall be McGuire "Classic" Professional Line

Trap shall be certified by CSA or other recognized testing authority. Trap shall bear manufacturer and testing marks.



WARNING:

This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



McGuire Manufacturing Co., Inc.

60 Grandview Court

Cheshire, Connecticut 06410

(203) 699-1801 Fax (203) 699-1813

customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

Part No.

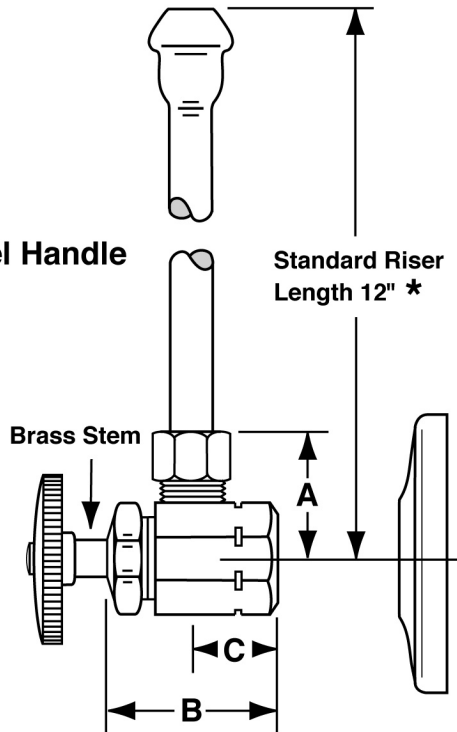
LF2165

Lavatory Supply
1/2" I.P.S. x O.D.

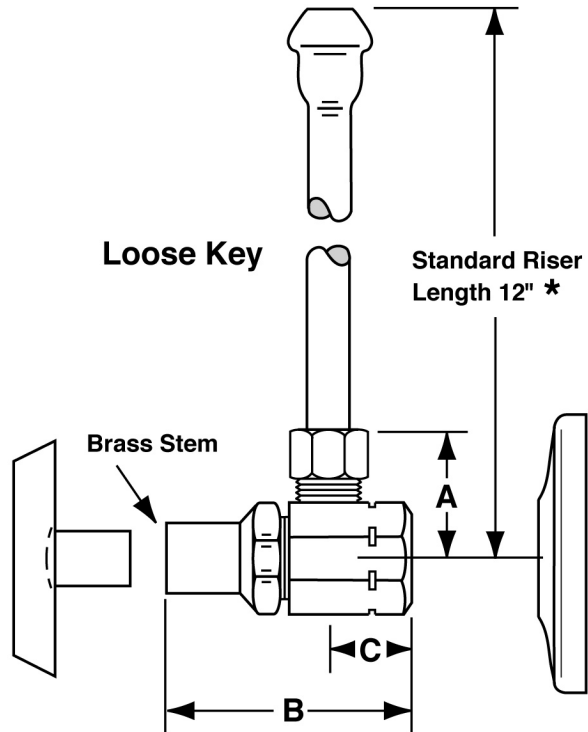
Job Name:

Submittal Number:

Wheel Handle



Loose Key



NO.	DESCRIPTION	ROUGHING MEASUREMENTS		
		A	B	C
LF2165	1/2" I.P.S. x 3/8" O.D.	1-3/16"	1-1/2"	3/4"

LK designates Loose Key

* See options and accessories section for details on product variations.



Specifications:

Supply kit shall include lead free chrome plated brass supply stop valves with full turn brass stem, no plastic, (12, 15, 20) inch chrome plated risers and (shallow, deep, bell) (steel, brass) or (forged brass with set screw) flange. Inlet shall be (3/8, 1/2) inch (IPS, compression). Outlet shall be (3/8, 1/2) inch compression. Supply kit shall be McGuire . Supply kit shall be certified by recognized authority and bear manufacturer and testing mark.



WARNING:

This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

P-9



Kingston™
Wall-Mount Bathroom Sink
K-2007

Features

- Made from premium materials that withstand high-volume usage
- 21-1/4" (540 mm) x 18-1/8" (460 mm)
- Faucet sold separately
- Includes wall hanger

Material

- Vitreous china

Installation

- Wall-mount
- Drilled for concealed arm carrier installation

Included Components

Additional Components:
Hanger(s)



ADA	CSA B651	OBC
-----	----------	-----

Codes/Standards

ASME A112.19.2/CSA B45.1
ADA
ICC/ANSI A117.1
CSA B651
OBC

**KOHLER® One-Year Limited
Warranty**

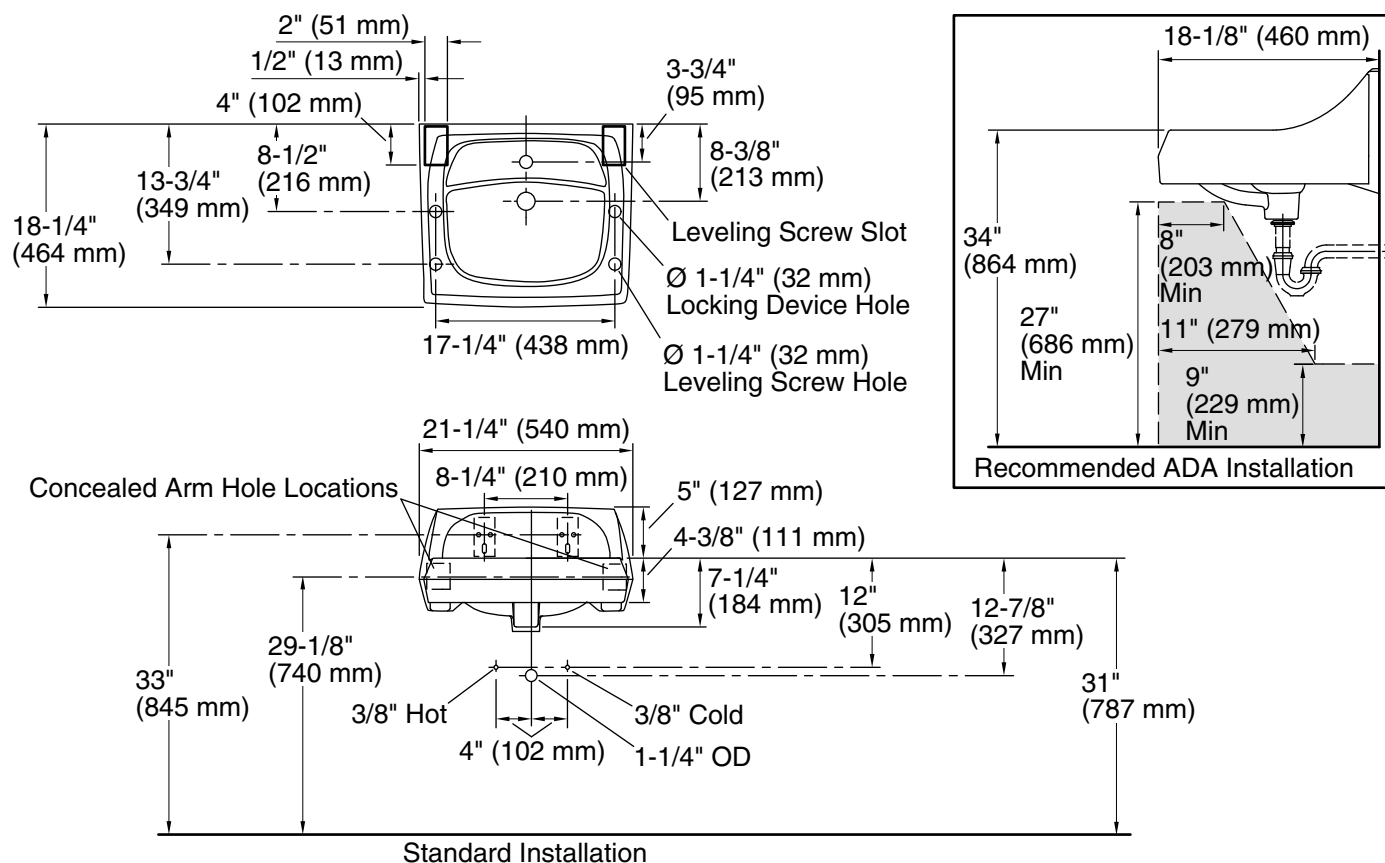
See website for detailed warranty information.

Available Colors/Finishes

Color tiles intended for reference only.

Color	Code	Description
-------	------	-------------

	0	White
---	---	-------



Technical Information

All product dimensions are nominal.

Bowl configuration:	Single
Installation:	Wall-mount
Center(s):	8
Bowl area (Center):	Length: 10" (254 mm) Width: 15" (381 mm) With overflow: Yes Water depth: 3-1/4" (83 mm)
With overflow:	Yes
Number of deck holes:	1
Faucet hole spacing:	8" (203 mm)
Faucet hole(s):	1-3/8" (35 mm)
Soap/Lotion hole:	1-1/4" (32 mm)
Drain hole:	1-3/4" (44 mm)

Notes

Install this product according to the installation instructions.

ADA, OBC, CSA B651 compliant when installed to the specific requirements of these regulations.

Features

- Kinesis™ technology with concealed sensor allows for a clean aesthetic and provides extraordinarily accurate and reliable actuation in varying installation environments
- Below-counter valving reduces the faucet footprint and provides easier service
- Design-forward aesthetic for commercial bathroom spaces
- 0.5 gpm (1.9 lpm) maximum flow rate
- Requires K-13480 single or K-13481 multiple AC adapter unit
- On-demand usage with 30-second max. continual run cycle to prevent vandalism and save water
- Vandal-resistant laminar outlet
- 18" (457 mm) stainless steel braided flexible supply hose for easy installation
- 3-7/8" (98 mm) spout reach
- Grid drain
- Concealed mechanical mixer sold separately
- Complies with the Safe Drinking Water Act (SDWA)
- Includes spout assembly, grid drain, control box assembly, supply hose and standard mounting hardware

Material

- Brass spout
- Cast brass valve

Technology

- Kinesis™ sensor technology offers on-demand detection for maximum water savings

Installation

- Single-hole mounting

Included Components

Additional Components:
7129-A



ADA CSA B651 OBC

Codes/Standards

ASME A112.18.1/CSA B125.1
NSF/ANSI/CAN 61
NSF/ANSI/CAN 372
All applicable US Federal and State material regulations
DOE - Energy Policy Act 1992
California Energy Commission (CEC)
ADA
ICC/ANSI A117.1
CSA B651
OBC

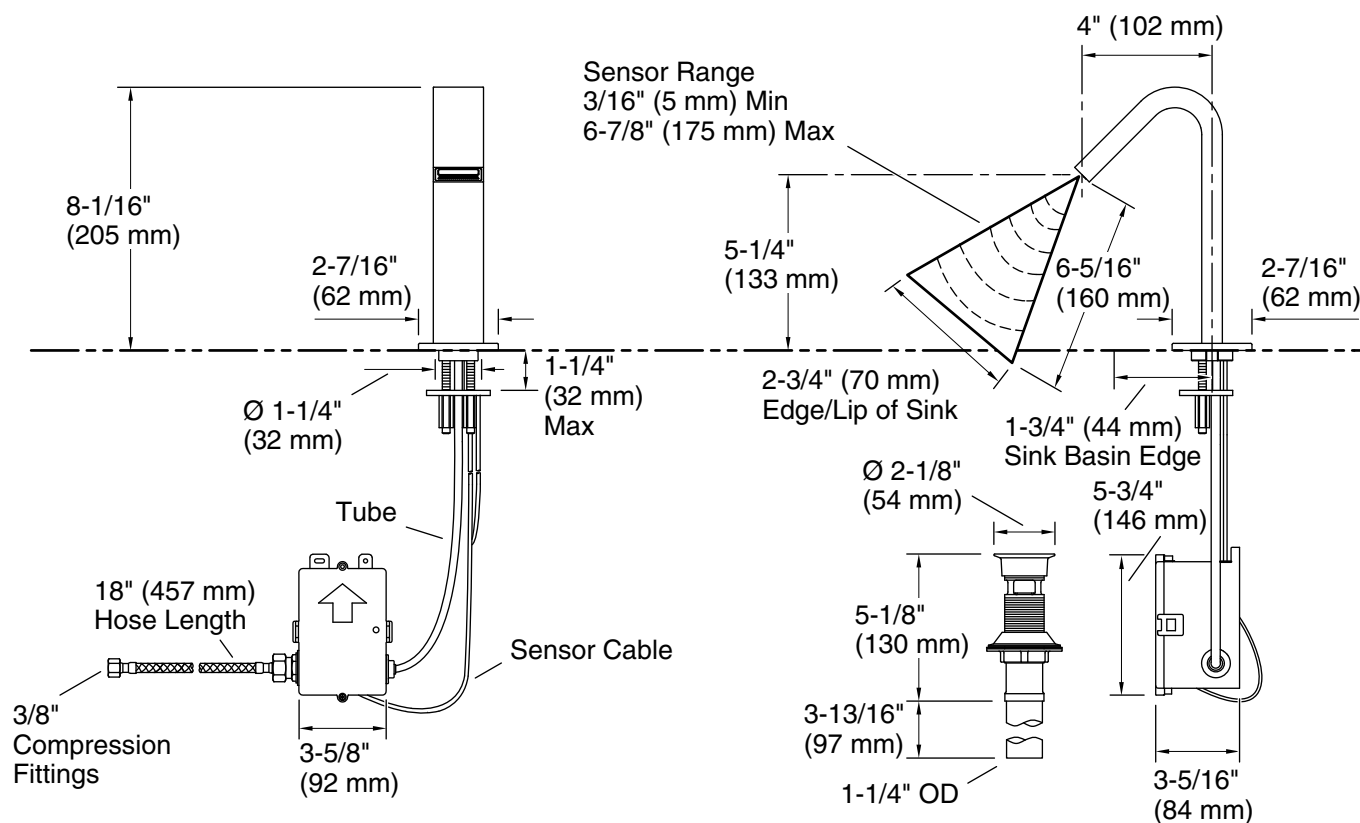
KOHLER® One-Year Limited Warranty

See website for detailed warranty information.

Available Colors/Finishes

Color tiles intended for reference only.

Color	Code	Description
	CP	Polished Chrome



Required Electrical Service

One dedicated circuit required, protected with Class A Ground-Fault Circuit-Interrupter (GFCI). Outside North America, this device may be known as a Residual Current Device (RCD).

120/240 V, 50/60 Hz

Technical Information

All product dimensions are nominal.

Power source: Hardwire - AC and Plug - AC, not included

Faucet:

Flow rate: 0.5 gal/min (1.9 l/min)

Pressure: 60 psi (4.1 bar)

Valve body: Cast brass

Drain included: Yes

Spout:

Spout reach: 3-7/8" (99 mm)

Notes

Install this product according to the installation instructions.

A 1-1/4" (32 mm) minimum to 1-1/2" (38 mm) maximum diameter mounting hole is required.

The minimum distance between the back of the faucet spout and the wall must be 1-3/4" (44 mm). This will allow proper clearance for setscrew access.

The maximum distance between the bathroom sink basin edge to the base of the faucet spout must be 1-3/4" (44 mm).

ADA, OBC, CSA B651 compliant when installed to the specific requirements of these regulations.

Features

- Intended for use with all Insight™ AC-powered deck- and wall-mount touchless faucets. One supply powers one Insight faucet
- Single supply power cord plugs into any North America outlet
- Input for 120 VAC, 50/60- Hertz operation
- Energy Star Efficiency Level VI
- Regulated output of 5 VDC at 1.2 amps
- Intended for use in North America outlets only. For global outlets, please use K-13480-NA

Installation

- 60" (1524 mm) power cord for easy 120-volt installation

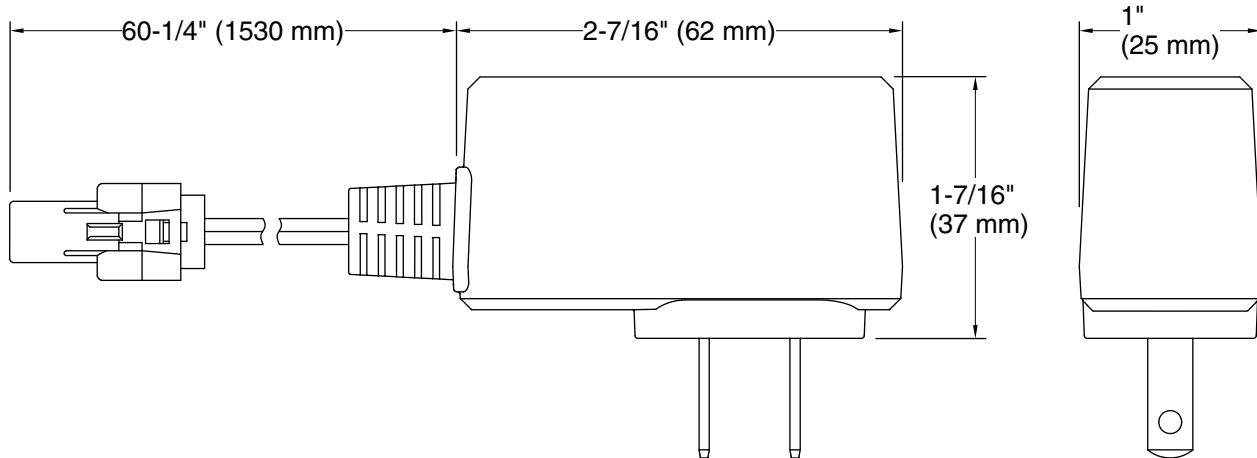


Codes/Standards

UL 1310

KOHLER® One-Year Limited Warranty

See website for detailed warranty information.



Required Electrical Service

One circuit required.

120/240 V, 0.3 A, 50/60 Hz

Technical Information

All product dimensions are nominal.

Material: Plastic

Notes

Install this product according to the installation instructions.

Model ST70

Lead-Free Lavatory Tempering Valve With Integral Mounting Feet

APPLICATION:

The Acorn ST70 is an ASSE 1070 certified, lead-free thermostatic tempering valve that protects against dangerously hot water in any commercial sink or lavatory application. This valve can be used with any type of faucet for maximum flexibility and can accommodate a single lavatory or up to 8 hand washing stations having a 0.5 gpm flow rate.

FEATURES:

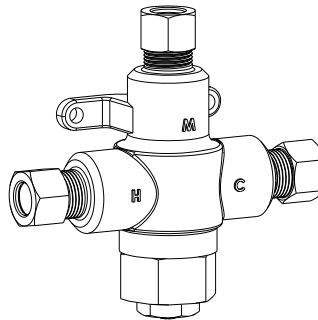
- ✧ Lead-Free certified DZR brass body with corrosion resistant and lead free internal components.
- Valve body available in rough brass or rough chrome plated.
- Integral and cartridge-style checks with accessible screens to prevent backflow and to filter debris from entering the valve.
- Temperature adjustment is made using an Allen wrench. A locknut on the bonnet prevents unauthorized or accidental temperature adjustment.
- Commercial quality paraffin actuator provides repeatable, reliable performance.
- Factory set to 105°F (41°C) and field adjustable.
- Integral mounting Feet

* In accordance with ASSE 1070 as certified by IAPMO
** Under Normal Operating Conditions

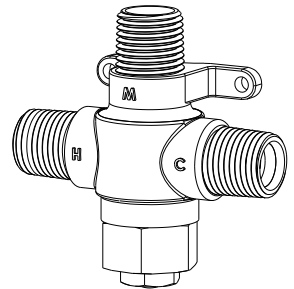
✧ The wetted surface of these valves contacted by consumable water contains less than 0.25% of lead by weight in conformance with national lead free law.

GUIDE SPECIFICATION:

The lavatory tempering valve shall be IAPMO lab certified per ASSE 1070 at 0.25 GPM (1.0 LPM) and CSA standards and shall have a solid brass body with corrosion resistant internal components. It shall include integral checks with screens to prevent backflow and to filter debris from entering the valve. Temperature adjustment shall be made using an allen wrench and a locknut on the bonnet to prevent unauthorized or accidental temperature adjustment. Valve shall provide 4.0 GPM (15 LPM) with 3/8" compression connection and 4.5 GPM (17 LPM) capacity with the 1/2" NPT connection at 45 psi (310 kPa) differential. Temperature range shall be 85°F-115° F (29°C-46° C). Valve shall be Acorn model ST70.



ST70-38



ST70-12



Patent #9,989,017

SPECIFICATIONS:

Valve Specifications:

Maximum Operating Pressure: 125 PSI (861 kPa)

Flow Rate @ 45 psi (310 kpa) differential:

ST70-12: 4.5 GPM (17 LPM)

ST70-38: 4.0 GPM (15 LPM)

Certified Minimum Flow Rate*: 0.25 GPM (1.0 LPM)

Maximum Hot Water Temp: 180°F (82°C)

Minimum Hot Water Supply Temp**: 5°F (3°C)
Above Set Point

Temperature Range*: 85°F-115°F (29°C-46°C)

Connections 1/2" NPT or 3/8" Compression

ST70-12

PRESSURE DROP PSID (kPa)	Cv	5 (34)	10 (69)	15 (103)	20 (138)	30 (207)	45 (310)	60 (414)
FLOW RATE GPM (LPM)	0.7	1.5 (5.7)	2.1 (8)	2.6 (9.8)	3 (11.4)	3.7 (14)	4.5 (17)	5.2 (19.7)

ST70-38

PRESSURE DROP PSID (kPa)	Cv	5 (34)	10 (69)	15 (103)	20 (138)	30 (207)	45 (310)	60 (414)
FLOW RATE GPM (LPM)	0.6	1.3 (5)	1.9 (7.1)	2.3 (8.7)	2.7 (10)	3.3 (12.4)	4 (15)	4.6 (17.5)

Acorn Controls assumes no responsibility for use of void or superseded data. © Copyright Acorn Controls, City of Industry, CA, Division of Acorn Engineering Company, a member of Morris Group International. Please visit www.acorneng.com for most current specifications.

Submission # **ST70**
Revised: 05/30/19

Certifications:



ASSE 1070
CSA B125.3

NSF/ANSI 61
Certified



ACORN ENGINEERING COMPANY
Manufacturer of Engineered Products

Member of Morris Group International™

ACORN ENGINEERING
COMPANY
P.O. BOX 3527
City of Industry, CA
91744, U.S.A.
Phone 800-488-8999
626-336-4561
Fax 626-961-2200
www.acorneng.com

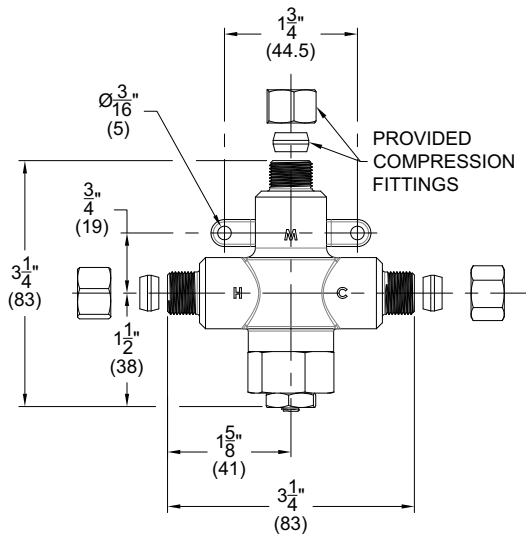
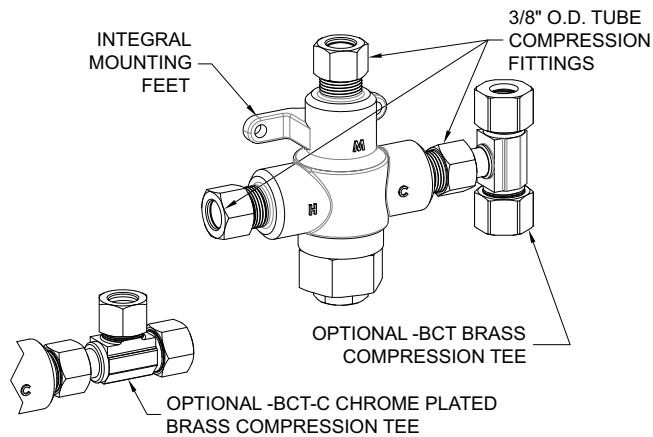
VALVE SELECTION:

- ☐ ST70-12 Brass Valve Body With 1/2" NPT Connections
- ☐ ST70CP-12 Rough Chrome Plated Body Valve With 1/2" NPT Connections
- ☒ ST70-38 Brass Valve Body With 3/8" Compression Connections
- ☐ ST70CP-38 Rough Chrome Plated Valve Body With 3/8" Compression Connections

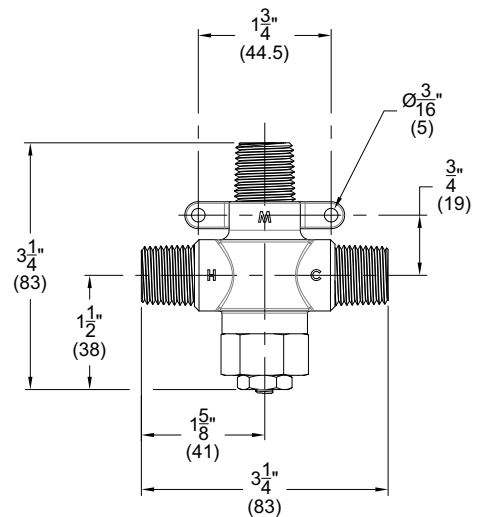
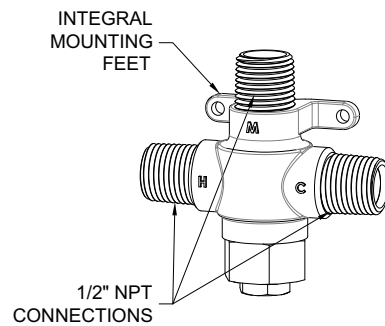
ACCESSORIES:

- ☐ -BCT 3/8" Brass Compression Tee
- ☐ -BCT-C 3/8" Brass Compression Tee, Chrome Plated

TECHNICAL DIMENSIONS:



ST70-38



ST70-12

ST70 Revised: 05/30/19

Acorn Controls warrants that its products are free from defects in material or workmanship under normal use and service for a period of one year from date of shipment. Acorn's liability under this warranty shall be discharged solely by replacement or repair of defective material, provided Acorn is notified in writing within one year from date of shipment, F.O.B. City of Industry, California.

SELECTION SUMMARY
& APPROVAL FOR
MANUFACTURING

Model Number & Options _____ Quantity _____

Company _____

Contact _____ Title _____

Signature (Approval for Manufacturing) _____ Date _____



Est. 1954
ACORN ENGINEERING COMPANY
Manufacturer of Engineered Products

800-488-8999
or 626-336-4561
www.acorneng.com



McGuire Manufacturing Co., Inc.

60 Grandview Court
Cheshire, Connecticut 06410
(203) 699-1801 Fax (203) 699-1813
customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

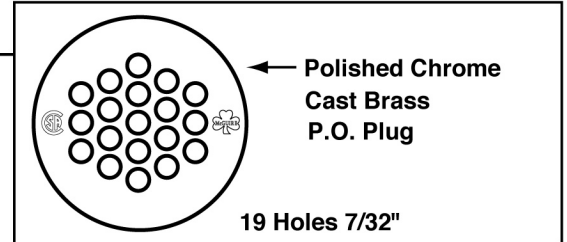
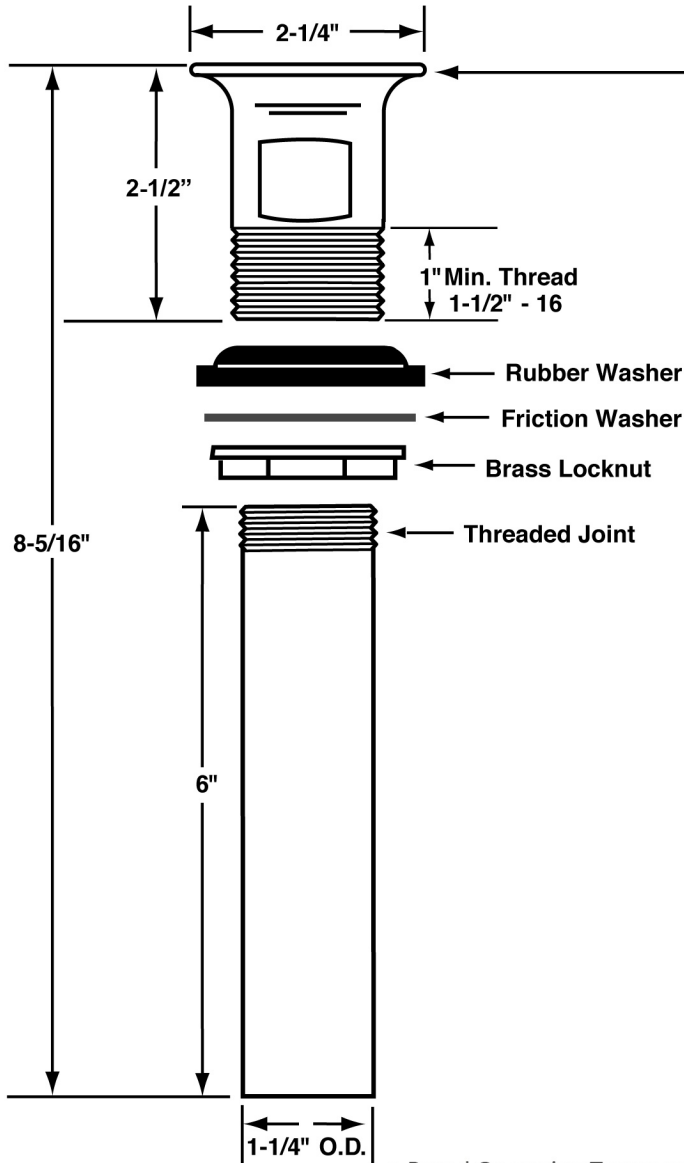
Part No.

155A

Open Grid P.O. Plug

Job Name:

Submittal Number:



- Rated Operating Temperature: 40-140°F
- Note: 180°F max. during temporary high-temperature system flush



See options and accessories section for details on product variations

ASME A112.18.2/CSA B125.2

Specifications:

Cast brass chrome plated open grid P.O. plug with 17GA 1-1/4" x 6" seamless brass tailpiece, brass lock nut, heavy rubber basin washer and fiber friction washer. P.O. plug shall be in compliance with CSA or other recognized testing authority and bear both manufacturer and testing mark.

WARNING:

This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



McGuire Manufacturing Co., Inc.

60 Grandview Court
Cheshire, Connecticut 06410
(203) 699-1801 Fax (203) 699-1813
customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

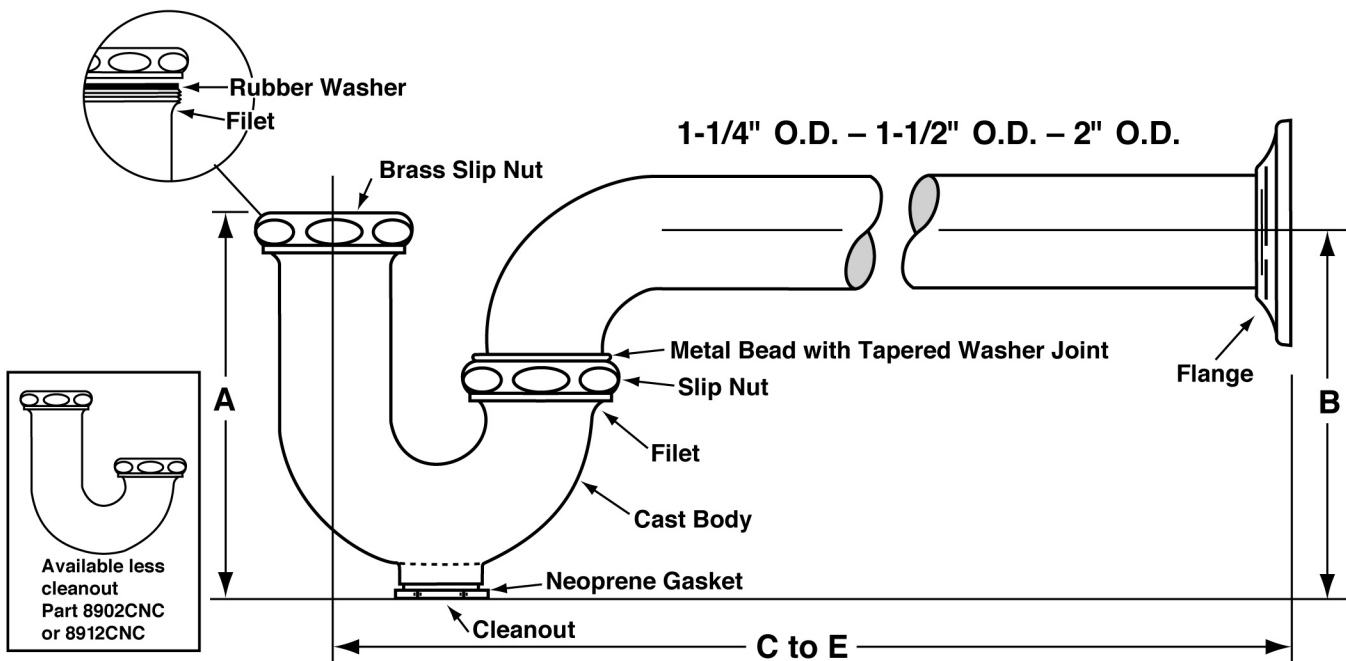
Part No.

8872C

Cast Body P-Trap
With or Without Cleanout

Job Name:

Submittal Number:



PROFESSIONAL LINE

ROUGHING MEASUREMENTS

NO.	TRAP DIMENSIONS		A	B	C to E
	INLET	OUTLET			
8872C	1-1/4"	1-1/4"	4-1/2"	4-1/4"	11-1/2"

- Rated Operating Temperature: 40-140°F
- Note: 180°F max. during temporary high-temperature system flush

FED SPEC W.W.P. 541

CAST BRASS P TRAP
MINIMUM SEAL 2"



See options and accessories section for details on product variations.

ASME A112.18.2/CSA B125-2

Specifications:

P-Trap shall be chrome plated cast brass body (with, without) cleanout, with 17 gauge seamless tubular wall bend, cast brass slip nuts. Reducing washers shall be used with reducing cast brass nut. With (shallow, deep, bell) (steel, brass) or (forged brass with set screw) flange.

P-Trap shall be McGuire "Classic" Professional Line

Trap shall be certified by CSA or other recognized testing authority. Trap shall bear manufacturer and testing marks.



WARNING:

This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



McGuire Manufacturing Co., Inc.

60 Grandview Court

Cheshire, Connecticut 06410

(203) 699-1801 Fax (203) 699-1813

customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

Part No.

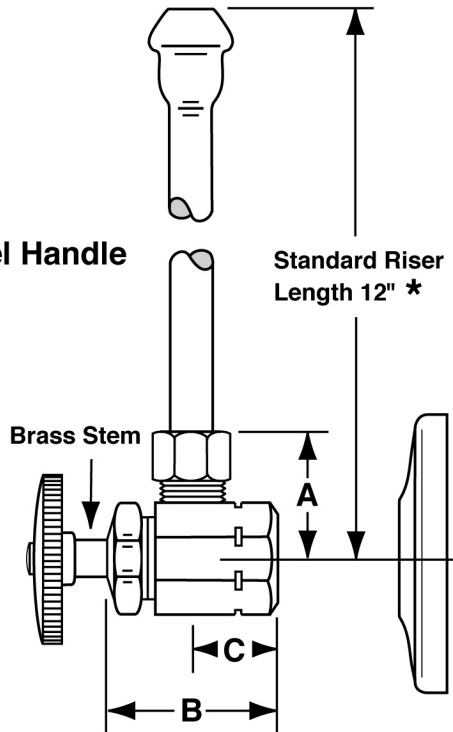
LF2165

Lavatory Supply
1/2" I.P.S. x O.D.

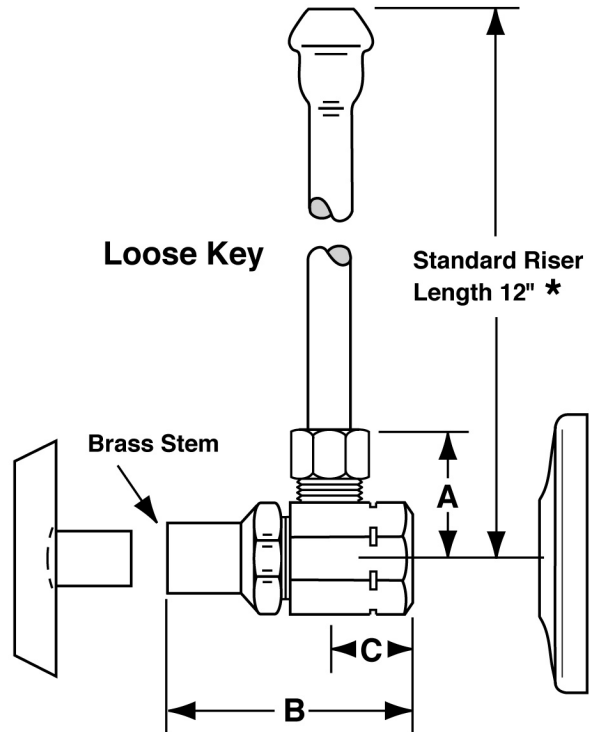
Job Name:

Submittal Number:

Wheel Handle



Loose Key



NO.	DESCRIPTION	ROUGHING MEASUREMENTS		
		A	B	C
LF2165	1/2" I.P.S. x 3/8" O.D.	1-3/16"	1-1/2"	3/4"

LK designates Loose Key

* See options and accessories section for details on product variations.



Specifications:

Supply kit shall include lead free chrome plated brass supply stop valves with full turn brass stem, no plastic, (12, 15, 20) inch chrome plated risers and (shallow, deep, bell) (steel, brass) or (forged brass with set screw) flange. Inlet shall be (3/8, 1/2) inch (IPS, compression). Outlet shall be (3/8, 1/2) inch compression. Supply kit shall be McGuire . Supply kit shall be certified by recognized authority and bear manufacturer and testing mark.



WARNING:

This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Submittal Sheet

General Description:

LAV GUARD[®] 2E-Z Series waste and supply piping covers satisfy ADA compliance requirements. Built-in E-Z Grip internal fasteners and internal, E-Z Tear-To-Fit trimming feature allow for fast installation without tools. Series #100 E-Z kits are designed to fit on all tubular and cast brass P-trap assemblies. Series #400 kits are the "original" LAV GUARD design and fit schedule 40 ABS and PVC P-trap assemblies — regardless of their geometry or rotational offset. Valve cover completely encloses angle valve and supply tube for both handled and keyed type water stops.

Material	Molded vinyl
Nominal Wall	1/8" constant
Durometer	70 - 80 - Shore A
UV Protection	Will not fade or discolor
Durability	Virtually indestructible
Trimming (E-Z Series)	Internal, E-Z Tear-To-Fit trim feature
Fasteners (E-Z Series)	Internal E-Z Grip fasteners (reusable)
Color	China white
Paintability	Apply Latex paint
Burning Characteristics ASTM D-635	Self extinguished 0 sec (ATB) 0 mm (AEB)
Bacteria/Fungus Resistance	ASTM G21 and G22/ Result: 0 growth
Maintenance	Use common detergents

Antimicrobial Vinyl Minimizes Maintainance

Lav Guard 2 is molded from impact-resistant, stain-resistant, antimicrobial vinyl. Its smooth surface makes it exceptionally easy to clean and maintain.

Manufactured under one or more of the following U.S. or Canadian patents.
Other patents pending.

5,303,730 5,360,031 5,524,669 5,564,463 5,678,598 5,699,828 5,915,412
5,915,413 5,901,739 5,960,820 2,075,324 2,119,427 2,136,027 2,158,083

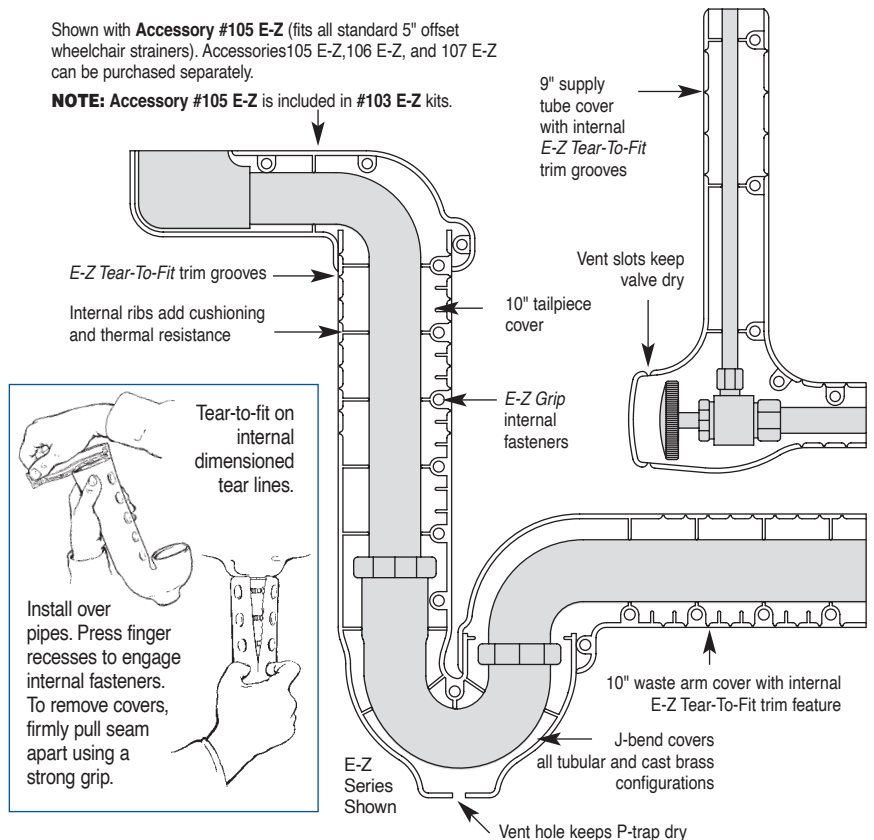


IPS
CORPORATION

500 Distribution Parkway, Collierville, TN 38017 • Phone: 800-888-8312 • Fax: 901-853-5008 • www.ipscorp.com

Shown with **Accessory #105 E-Z** (fits all standard 5" offset wheelchair strainers). Accessories 105 E-Z, 106 E-Z, and 107 E-Z can be purchased separately.

NOTE: Accessory #105 E-Z is included in #103 E-Z kits.



#100 E-Z Series (shown above right) for tubular and cast brass P-trap assemblies.

#400W* Series (original design) for schedule 40 P-trap assemblies.

☐ **Model #99 E-Z**
One angle valve and supply cover

☐ **Model #100 E-Z**
One P-trap cover

☐ **Model #400W***
One P-trap cover

☐ **Model #101 E-Z**
One P-trap cover, one angle valve cover

☐ **Model #401W***
One P-trap cover, one angle valve cover

☒ **Model #102 E-Z**
One P-trap cover, two angle valves and covers

☐ **Model #402W***
One P-trap cover, two angle valves and covers

☐ **Model #103 E-Z**
One P-trap cover, two angle valves and supply covers, one 5" offset tailpiece wheelchair strainer cover

☐ **Accessory #105 E-Z**
One 5" offset tailpiece wheelchair strainer assembly

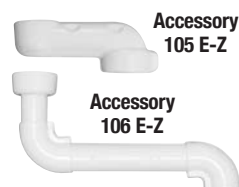
☐ **Accessory #105-K**
Kohler 6" offset

☐ **Accessory #106 E-Z**
One basket strainer cover and offset waste cover (adjustable to 18")

☐ **Accessory #107 E-Z**
Two basket strainer covers and center or end outlet waste cover (adjustable)

☐ **Accessory #Ex99 E-Z**
One 14" extension for water supply

☐ **Accessory #Ex100 E-Z**
One 14" extension for drain waste arm or tailpiece



Accessory 107 E-Z
(Configuration Options Shown)



CARRIER

K						LOCATION 																																																																																																																																																																																																				
	LAVATORY SUPPORTS WITH CONCEALED ARMS																																																																																																																																																																																																									
	FLOOR MOUNTED WITH "PRO-SET" UPRIGHTS																																																																																																																																																																																																									
Fig. 0700 . . . FOR HIGH BACK LAVATORIES (shown)																																																																																																																																																																																																										
NOTE: The rough-in dimensions listed on this drawing are based on current information available to Jay R. Smith by the fixture manufacturers. We recommend that you verify these dimensions with the fixture manufacturer. We will not accept responsibility for rough-in dimension changes by the fixture manufacturer. NOTE: Dimensions shown in parentheses are in millimeters.																																																																																																																																																																																																										
BASE DETAIL																																																																																																																																																																																																										
ROUGHING-IN TABLE																																																																																																																																																																																																										
<table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th>FIXTURE MFG.</th> <th>NAME</th> <th>NUMBER</th> <th>SIZE</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>F</th> <th>G</th> <th>J</th> <th>K</th> </tr> </thead> <tbody> <tr><td>AM. STD.</td><td>LUCERNE</td><td>0355.012</td><td>20 (510) x 18 (455)</td><td>31 (785)</td><td>29 1/4 (745)</td><td>16 3/4 (425)</td><td>4 (100)</td><td>6 (150)</td><td>6 (150)</td><td>16 1/2 (420)</td><td>19 (485)</td><td>1/2 (13)</td></tr> <tr><td>AM. STD.</td><td>LUCERNE</td><td>0356.015</td><td>20 (510) x 18 (455)</td><td>31 (785)</td><td>29 1/4 (745)</td><td>16 3/4 (425)</td><td>4 (100)</td><td>6 (150)</td><td>6 (150)</td><td>16 1/2 (420)</td><td>19 (485)</td><td>1/2 (13)</td></tr> <tr><td>AM. STD.</td><td>LUCERNE</td><td>0356.421</td><td>20 (510) x 18 (455)</td><td>31 (785)</td><td>29 1/4 (745)</td><td>16 3/4 (425)</td><td>4 (100)</td><td>6 (150)</td><td>6 (150)</td><td>16 1/2 (420)</td><td>19 (485)</td><td>1/2 (13)</td></tr> <tr><td>AM. STD.</td><td>MURRO</td><td>0954.000</td><td>20 (510) x 21 (455)</td><td>34 (865)</td><td>32 3/8 (823)</td><td>16 3/4 (425)</td><td>4 (100)</td><td>6 (150)</td><td>6 (150)</td><td>14 1/2 (370)</td><td>17M (430)</td><td>1/2 (13)</td></tr> <tr><td>AM. STD.</td><td>MURRO</td><td>0955.000</td><td>22 (560) x 21 (535)</td><td>34 (865)</td><td>32 3/8 (823)</td><td>16 3/4 (425)</td><td>4 (100)</td><td>6 (150)</td><td>4 (100)</td><td>14 1/2 (370)</td><td>17M (430)</td><td>1/2 (13)</td></tr> <tr><td>AM. STD.</td><td>MURRO</td><td>0958.000</td><td>22 (560) x 21 (535)</td><td>34 (865)</td><td>32 3/8 (823)</td><td>16 3/4 (425)</td><td>4 (100)</td><td>6 (150)</td><td>4 (100)</td><td>14 1/2 (370)</td><td>17M (430)</td><td>1/2 (13)</td></tr> <tr><td>KOHLER</td><td>CHESAPEAKE</td><td>K-1722, 24, 28</td><td>19 (483) x 17 (432)</td><td>31 (785)</td><td>29 3/8 (746)</td><td>15 3/8 (391)</td><td>3 1/4 (83)</td><td>5 1/4 (135)</td><td>5 1/4 (135)</td><td>14 1/4 (360)</td><td>17M (430)</td><td>1/2 (13)</td></tr> <tr><td>KOHLER</td><td>CHESAPEAKE</td><td>K-1721, 23, 29</td><td>20 (510) x 18 (455)</td><td>31 (785)</td><td>29 7/8 (759)</td><td>15 3/4 (400)</td><td>3 1/4 (83)</td><td>5 1/4 (135)</td><td>5 1/4 (135)</td><td>14 5/8 (371)</td><td>17 1/4 (430)</td><td>7/8 (22)</td></tr> <tr><td>KOHLER</td><td>GREENWICH</td><td>K-2030, 1, 2, 4, 6</td><td>20 (510) x 18 (455)</td><td>31 (785)</td><td>29 (735)</td><td>17 1/4 (440)</td><td>3 1/4 (83)</td><td>5 1/4 (135)</td><td>5 1/4 (135)</td><td>14 1/4 (360)</td><td>16M (405)</td><td>1/2 (13)</td></tr> <tr><td>KOHLER</td><td>KINGSTON</td><td>K-2005, 6, 7</td><td>20 (510) x 18 (455)</td><td>31 (785)</td><td>29 1/8 (740)</td><td>17 1/4 (440)</td><td>2 5/8 (67)</td><td>5 7/8 (149)</td><td>5 1/4 (135)</td><td>14 1/4 (360)</td><td>16M (430)</td><td>1/2 (13)</td></tr> <tr><td>KOHLER</td><td>SOHO</td><td>K-2053, 4</td><td>20 (510) x 18 (455)</td><td>31 (785)</td><td>29 1/4 (745)</td><td>16 1/2 (420)</td><td>3 1/4 (83)</td><td>5 1/4 (135)</td><td>5 1/4 (135)</td><td>14 1/4 (360)</td><td>17M (430)</td><td>1/2 (13)</td></tr> <tr><td>TOTO</td><td>COMMERCIAL LAV.</td><td>LT 307</td><td>21 (533) x 18 (455)</td><td>34 (864)</td><td>33 1/4 (845)</td><td>16 3/4 (425)</td><td>3 3/4 (95)</td><td>8 1/8 (206)</td><td>4 1/2 (114)</td><td>16 7/8 (429)</td><td>19 (483)</td><td>1/2 (13)</td></tr> <tr><td>ZURN</td><td>LAV</td><td>Z5361, 4, 8</td><td>20 (510) x 18 (455)</td><td>31 (785)</td><td>29 1/2 (749)</td><td>17 (432)</td><td>3 1/4 (83)</td><td>5 1/4 (135)</td><td>5 1/4 (135)</td><td>14 1/4 (360)</td><td>17M (430)</td><td>1/2 (13)</td></tr> <tr><td>ZURN</td><td>LAV</td><td>Z5321, 4, 8, 9</td><td>23 (584) x 20 (510)</td><td>34 (864)</td><td>31 3/4 (806)</td><td>16 3/4 (425)</td><td>4 (100)</td><td>7 (178)</td><td>7 (178)</td><td>18 1/2 (470)</td><td>20 (510)</td><td>1/2 (13)</td></tr> </tbody> </table>								FIXTURE MFG.	NAME	NUMBER	SIZE	A	B	C	D	E	F	G	J	K	AM. STD.	LUCERNE	0355.012	20 (510) x 18 (455)	31 (785)	29 1/4 (745)	16 3/4 (425)	4 (100)	6 (150)	6 (150)	16 1/2 (420)	19 (485)	1/2 (13)	AM. STD.	LUCERNE	0356.015	20 (510) x 18 (455)	31 (785)	29 1/4 (745)	16 3/4 (425)	4 (100)	6 (150)	6 (150)	16 1/2 (420)	19 (485)	1/2 (13)	AM. STD.	LUCERNE	0356.421	20 (510) x 18 (455)	31 (785)	29 1/4 (745)	16 3/4 (425)	4 (100)	6 (150)	6 (150)	16 1/2 (420)	19 (485)	1/2 (13)	AM. STD.	MURRO	0954.000	20 (510) x 21 (455)	34 (865)	32 3/8 (823)	16 3/4 (425)	4 (100)	6 (150)	6 (150)	14 1/2 (370)	17M (430)	1/2 (13)	AM. STD.	MURRO	0955.000	22 (560) x 21 (535)	34 (865)	32 3/8 (823)	16 3/4 (425)	4 (100)	6 (150)	4 (100)	14 1/2 (370)	17M (430)	1/2 (13)	AM. STD.	MURRO	0958.000	22 (560) x 21 (535)	34 (865)	32 3/8 (823)	16 3/4 (425)	4 (100)	6 (150)	4 (100)	14 1/2 (370)	17M (430)	1/2 (13)	KOHLER	CHESAPEAKE	K-1722, 24, 28	19 (483) x 17 (432)	31 (785)	29 3/8 (746)	15 3/8 (391)	3 1/4 (83)	5 1/4 (135)	5 1/4 (135)	14 1/4 (360)	17M (430)	1/2 (13)	KOHLER	CHESAPEAKE	K-1721, 23, 29	20 (510) x 18 (455)	31 (785)	29 7/8 (759)	15 3/4 (400)	3 1/4 (83)	5 1/4 (135)	5 1/4 (135)	14 5/8 (371)	17 1/4 (430)	7/8 (22)	KOHLER	GREENWICH	K-2030, 1, 2, 4, 6	20 (510) x 18 (455)	31 (785)	29 (735)	17 1/4 (440)	3 1/4 (83)	5 1/4 (135)	5 1/4 (135)	14 1/4 (360)	16M (405)	1/2 (13)	KOHLER	KINGSTON	K-2005, 6, 7	20 (510) x 18 (455)	31 (785)	29 1/8 (740)	17 1/4 (440)	2 5/8 (67)	5 7/8 (149)	5 1/4 (135)	14 1/4 (360)	16M (430)	1/2 (13)	KOHLER	SOHO	K-2053, 4	20 (510) x 18 (455)	31 (785)	29 1/4 (745)	16 1/2 (420)	3 1/4 (83)	5 1/4 (135)	5 1/4 (135)	14 1/4 (360)	17M (430)	1/2 (13)	TOTO	COMMERCIAL LAV.	LT 307	21 (533) x 18 (455)	34 (864)	33 1/4 (845)	16 3/4 (425)	3 3/4 (95)	8 1/8 (206)	4 1/2 (114)	16 7/8 (429)	19 (483)	1/2 (13)	ZURN	LAV	Z5361, 4, 8	20 (510) x 18 (455)	31 (785)	29 1/2 (749)	17 (432)	3 1/4 (83)	5 1/4 (135)	5 1/4 (135)	14 1/4 (360)	17M (430)	1/2 (13)	ZURN	LAV	Z5321, 4, 8, 9	23 (584) x 20 (510)	34 (864)	31 3/4 (806)	16 3/4 (425)	4 (100)	7 (178)	7 (178)	18 1/2 (470)	20 (510)	1/2 (13)
FIXTURE MFG.	NAME	NUMBER	SIZE	A	B	C	D	E	F	G	J	K																																																																																																																																																																																														
AM. STD.	LUCERNE	0355.012	20 (510) x 18 (455)	31 (785)	29 1/4 (745)	16 3/4 (425)	4 (100)	6 (150)	6 (150)	16 1/2 (420)	19 (485)	1/2 (13)																																																																																																																																																																																														
AM. STD.	LUCERNE	0356.015	20 (510) x 18 (455)	31 (785)	29 1/4 (745)	16 3/4 (425)	4 (100)	6 (150)	6 (150)	16 1/2 (420)	19 (485)	1/2 (13)																																																																																																																																																																																														
AM. STD.	LUCERNE	0356.421	20 (510) x 18 (455)	31 (785)	29 1/4 (745)	16 3/4 (425)	4 (100)	6 (150)	6 (150)	16 1/2 (420)	19 (485)	1/2 (13)																																																																																																																																																																																														
AM. STD.	MURRO	0954.000	20 (510) x 21 (455)	34 (865)	32 3/8 (823)	16 3/4 (425)	4 (100)	6 (150)	6 (150)	14 1/2 (370)	17M (430)	1/2 (13)																																																																																																																																																																																														
AM. STD.	MURRO	0955.000	22 (560) x 21 (535)	34 (865)	32 3/8 (823)	16 3/4 (425)	4 (100)	6 (150)	4 (100)	14 1/2 (370)	17M (430)	1/2 (13)																																																																																																																																																																																														
AM. STD.	MURRO	0958.000	22 (560) x 21 (535)	34 (865)	32 3/8 (823)	16 3/4 (425)	4 (100)	6 (150)	4 (100)	14 1/2 (370)	17M (430)	1/2 (13)																																																																																																																																																																																														
KOHLER	CHESAPEAKE	K-1722, 24, 28	19 (483) x 17 (432)	31 (785)	29 3/8 (746)	15 3/8 (391)	3 1/4 (83)	5 1/4 (135)	5 1/4 (135)	14 1/4 (360)	17M (430)	1/2 (13)																																																																																																																																																																																														
KOHLER	CHESAPEAKE	K-1721, 23, 29	20 (510) x 18 (455)	31 (785)	29 7/8 (759)	15 3/4 (400)	3 1/4 (83)	5 1/4 (135)	5 1/4 (135)	14 5/8 (371)	17 1/4 (430)	7/8 (22)																																																																																																																																																																																														
KOHLER	GREENWICH	K-2030, 1, 2, 4, 6	20 (510) x 18 (455)	31 (785)	29 (735)	17 1/4 (440)	3 1/4 (83)	5 1/4 (135)	5 1/4 (135)	14 1/4 (360)	16M (405)	1/2 (13)																																																																																																																																																																																														
KOHLER	KINGSTON	K-2005, 6, 7	20 (510) x 18 (455)	31 (785)	29 1/8 (740)	17 1/4 (440)	2 5/8 (67)	5 7/8 (149)	5 1/4 (135)	14 1/4 (360)	16M (430)	1/2 (13)																																																																																																																																																																																														
KOHLER	SOHO	K-2053, 4	20 (510) x 18 (455)	31 (785)	29 1/4 (745)	16 1/2 (420)	3 1/4 (83)	5 1/4 (135)	5 1/4 (135)	14 1/4 (360)	17M (430)	1/2 (13)																																																																																																																																																																																														
TOTO	COMMERCIAL LAV.	LT 307	21 (533) x 18 (455)	34 (864)	33 1/4 (845)	16 3/4 (425)	3 3/4 (95)	8 1/8 (206)	4 1/2 (114)	16 7/8 (429)	19 (483)	1/2 (13)																																																																																																																																																																																														
ZURN	LAV	Z5361, 4, 8	20 (510) x 18 (455)	31 (785)	29 1/2 (749)	17 (432)	3 1/4 (83)	5 1/4 (135)	5 1/4 (135)	14 1/4 (360)	17M (430)	1/2 (13)																																																																																																																																																																																														
ZURN	LAV	Z5321, 4, 8, 9	23 (584) x 20 (510)	34 (864)	31 3/4 (806)	16 3/4 (425)	4 (100)	7 (178)	7 (178)	18 1/2 (470)	20 (510)	1/2 (13)																																																																																																																																																																																														
*NOTE: This dimension can be increased when fixture support is to be installed behind the wall. (Specify when required and wall thickness).																																																																																																																																																																																																										
0700 FIGURE NUMBER	<table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.7em;"> <tr> <td style="width: 20px; text-align: center;">K</td> <td style="width: 40px; text-align: center;">12/05/22</td> <td rowspan="4" style="text-align: center;"> Revised Roughing-in Table Updated Drawing Revised Roughing-in Table Revised Roughing-in Table </td> <td style="width: 20px; text-align: center;">KK</td> <td style="width: 40px; text-align: center;">JT</td> </tr> <tr> <td style="text-align: center;">J</td> <td style="text-align: center;">09/27/10</td> <td style="text-align: center;">JJ</td> <td style="text-align: center;">CL</td> </tr> <tr> <td style="text-align: center;">H</td> <td style="text-align: center;">11/23/05</td> <td style="text-align: center;">JJ</td> <td style="text-align: center;">CL</td> </tr> <tr> <td style="text-align: center;">G</td> <td style="text-align: center;">03/19/04</td> <td style="text-align: center;">JJ</td> <td style="text-align: center;">CL</td> </tr> </table>		K	12/05/22	Revised Roughing-in Table Updated Drawing Revised Roughing-in Table Revised Roughing-in Table	KK	JT	J	09/27/10	JJ	CL	H	11/23/05	JJ	CL	G	03/19/04	JJ	CL	<table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.7em;"> <tr> <td style="width: 40px; text-align: center;">WEIGHT POUNDS</td> <td style="width: 40px; text-align: center;">VOLUME CUBIC FEET</td> </tr> <tr> <td style="height: 40px;"></td> <td style="height: 40px;"></td> </tr> </table>		WEIGHT POUNDS	VOLUME CUBIC FEET			<table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.7em;"> <tr> <td style="text-align: center;"> FIGURE NUMBER 0700 </td> </tr> </table>		FIGURE NUMBER 0700																																																																																																																																																																														
	K	12/05/22	Revised Roughing-in Table Updated Drawing Revised Roughing-in Table Revised Roughing-in Table	KK		JT																																																																																																																																																																																																				
J	09/27/10	JJ		CL																																																																																																																																																																																																						
H	11/23/05	JJ		CL																																																																																																																																																																																																						
G	03/19/04	JJ		CL																																																																																																																																																																																																						
WEIGHT POUNDS	VOLUME CUBIC FEET																																																																																																																																																																																																									
FIGURE NUMBER 0700																																																																																																																																																																																																										
REV.	DATE	DESCRIPTION	BY	CKD. BY																																																																																																																																																																																																						



WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

F	SMITH® JAY R. SMITH MFG. CO.® MEMBER OF MORRIS GROUP INTERNATIONAL POST OFFICE BOX 3237 MONTGOMERY, ALABAMA 36109-0237 (USA) TEL: 334-277-8520 FAX: 334-272-7396 www.jrsmith.com MEMBER OF: MEMBER OF: MEMBER OF:				LOCATION 																																					
	INSTALLATION INSTRUCTIONS FOR CONCEALED ARM CARRIERS																																									
DRAWING NUMBER S0700 INS	BEFORE starting rough-in be certain you: - know correct fixture number and name - have a copy of Smith submittal (rough-in) drawing with dimensions for fixture to be used. NOTE: The rough-in dimensions listed on this drawing are based on current information available to Jay R. Smith by the fixture manufacturers. We recommend that you verify these dimensions with the fixture manufacturer. We will not accept responsibility for rough-in dimension changes by the fixture manufacturer.																																									
	SIZE A	<table border="1" style="border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th>PART</th> <th>QTY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td>1</td><td>2</td><td>Upright (w/welded base)</td></tr> <tr><td>2</td><td>2</td><td>Sleeve Assembly</td></tr> <tr><td>3</td><td>1</td><td>Alignment Bar</td></tr> <tr><td>4</td><td>2</td><td>Locking Coupling</td></tr> <tr><td>5</td><td>2</td><td>Escutcheon Fig. 0700 (-E)</td></tr> <tr><td>6</td><td>2</td><td>Arm Assembly</td></tr> <tr><td>6a</td><td>2</td><td>Rear Leveling Screw Assy</td></tr> <tr><td>6b</td><td>2</td><td>Locking Device</td></tr> <tr><td>6c</td><td>2</td><td>Front Leveling Screw</td></tr> </tbody> </table>			PART	QTY	DESCRIPTION	1	2	Upright (w/welded base)	2	2	Sleeve Assembly	3	1	Alignment Bar	4	2	Locking Coupling	5	2	Escutcheon Fig. 0700 (-E)	6	2	Arm Assembly	6a	2	Rear Leveling Screw Assy	6b	2	Locking Device	6c	2	Front Leveling Screw								
	PART				QTY	DESCRIPTION																																				
1	2	Upright (w/welded base)																																								
2	2	Sleeve Assembly																																								
3	1	Alignment Bar																																								
4	2	Locking Coupling																																								
5	2	Escutcheon Fig. 0700 (-E)																																								
6	2	Arm Assembly																																								
6a	2	Rear Leveling Screw Assy																																								
6b	2	Locking Device																																								
6c	2	Front Leveling Screw																																								
SCALE: NONE																																										
DATE: 8-8-85	*A Floor to Rim of Fixture *Refer to Smith submittal drawing for these dimensions.																																									
APPROVED BY: KG	INSTALLATION INSTRUCTIONS FOR CONCEALED ARM CARRIERS - Uprights (Part #1) must be spaced according to the "C" dimension (shown on the submittal drawing). Uprights should not be bolted rigidly to the floor at this time. - Position sleeves (Part #2) by using the "B" dimension (shown on the submittal drawing). Secure to uprights with 5/16 (8)-18 hex head bolts (furnished) on the back of the sleeve. - Slide alignment bar (Part #3) into the sleeves. Recheck the "C" dimension at the center of the uprights. Secure the alignment bar with 5/16 (8) hex head bolts (furnished). Uprights should now be bolted securely to the floor. Uprights must be plumb: if necessary, shim to compensate for uneven floors. - Thread escutcheon (Part #5), Fig. 0700 (-E) only onto arm (Part #6). Thread locking coupling (Part #4) onto arm. Thread arms into sleeves (Part #2) to dimension "G" (shown on the submittal drawing). Lock arms in place by tightening locking coupling (Part #4). Recheck "C" dimension at the end of the arms. - Rear leveling screw assemblies (Part #6a) must be set according to the "D" dimension (shown on the submittal drawing). Position the locking devices (Part #6b) to the "E" dimension (shown on the submittal drawing). Install the front leveling screws (Part #6c) to the "E" dimension (shown on the submittal drawing). - Level lavatory with leveling screws as required and secure in place with locking device.																																									
CHECKED BY: CR																																										
DRAWN BY: VGD																																										
FIGURE NUMBER 0700, 0700 (-E) INSTALLATION INSTRUCTIONS	<table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.8em;"> <tr> <td style="width: 10%;">F</td> <td style="width: 15%;">10-7-13</td> <td style="width: 30%;">Revised Callouts</td> <td style="width: 10%;">TBW</td> <td style="width: 10%;">CL</td> <td style="width: 10%;">WEIGHT</td> <td style="width: 10%;">VOLUME</td> <td style="width: 15%;">FIGURE NUMBER</td> </tr> <tr> <td>E</td> <td>09/27/10</td> <td>Updated Drawing</td> <td>JJ</td> <td>CL</td> <td>POUNDS</td> <td>CUBIC FEET</td> <td rowspan="3" style="text-align: center; vertical-align: middle;"> 0700, 0700 (-E) INSTALLATION INSTRUCTIONS </td> </tr> <tr> <td>D</td> <td>2/16/01</td> <td>Revised Submittal</td> <td>RN</td> <td>BS</td> <td></td> <td></td> </tr> <tr> <td>C</td> <td>01/11/00</td> <td>Revised Base Plate</td> <td>JJ</td> <td></td> <td></td> <td></td> </tr> <tr> <td>REV.</td> <td>DATE</td> <td>DESCRIPTION</td> <td>BY</td> <td>CKD. BY</td> <td></td> <td></td> <td></td> </tr> </table>				F	10-7-13	Revised Callouts	TBW	CL	WEIGHT	VOLUME	FIGURE NUMBER	E	09/27/10	Updated Drawing	JJ	CL	POUNDS	CUBIC FEET	0700, 0700 (-E) INSTALLATION INSTRUCTIONS	D	2/16/01	Revised Submittal	RN	BS			C	01/11/00	Revised Base Plate	JJ				REV.	DATE	DESCRIPTION	BY	CKD. BY			
F	10-7-13	Revised Callouts	TBW	CL	WEIGHT	VOLUME	FIGURE NUMBER																																			
E	09/27/10	Updated Drawing	JJ	CL	POUNDS	CUBIC FEET	0700, 0700 (-E) INSTALLATION INSTRUCTIONS																																			
D	2/16/01	Revised Submittal	RN	BS																																						
C	01/11/00	Revised Base Plate	JJ																																							
REV.	DATE	DESCRIPTION	BY	CKD. BY																																						

P-10

PRODUCT SPECIFICATIONS

Elkay ezH2O® Bottle Filling Station & Versatile Bi-Level ADA Cooler Non-Filtered Refrigerated Light Gray. Chilling Capacity of 8.0 GPH (gallons per hour) of 50° F drinking water, based on 80° F inlet water and 90° F ambient, per ASHRAE 18 testing. Features shall include Antimicrobial, Green Ticker™, Hands Free, Laminar Flow, Real Drain. Furnished with Flexi-Guard® Safety Bubbler. Electronic Bottle Filler Sensor with Electronic Front and Side Bubbler Pushbar activation. Product shall be Wall Mount (On Wall), for Indoor applications, serving 2 station(s). Unit shall be certified to UL 399 and CAN/CSA C22.2 No. 120.

Special Features:	Antimicrobial, Green Ticker™, Hands Free, Laminar Flow, Real Drain
Finish:	Light Gray Granite
Power:	115V/60Hz
Bubbler Style:	Flexi-Guard® Safety Bubbler
Activation by:	Electronic Bottle Filler Sensor with Electronic Front and Side Bubbler Pushbar
Mounting Type:	Wall Mount (On Wall)
Chilling Capacity*:	8.0 GPH
Full Load Amps	6
Rated Watts:	370
Dimensions (L x W x H):	36-3/4" x 19" x 39-1/16"
Approx. Shipping Weight:	101 lbs.
Installation Location:	Indoor
No. of Stations Served:	2
*Based on 80° F inlet water & 90° F ambient air temp for 50° F chilled drinking water.	

Special Note: Non-filtered model

- Green Ticker: Informs user of number of 20 oz. plastic water bottles saved from waste.
- Laminar flow provides clean fill with minimal splash.
- Silver Ion Antimicrobial protection on key plastic components to inhibit the growth of mold and mildew.
- Real Drain System eliminates standing water.

COOLING SYSTEM

- Compressor: Hermetically-sealed, reciprocating type, single phase. Sealed-in lifetime lubrication.
- Condenser: Fan cooled, copper tube with aluminum fins. Fan motor is permanently lubricated.
- Cooling Unit: Combination tube-tank type. Continuous copper tubing with is fully insulated with EPS foam that meets UL requirements for self-extinguishing material.
- Refrigerant Control: Refrigerant R-134a is controlled by accurately calibrated capillary tube.

PART: _____ QTY: _____

PROJECT: _____

CONTACT: _____

DATE: _____

NOTES: _____

APPROVAL: _____



Included with Product: Water Cooler (EZSTL8WSLC), Bottle Filler (EZWSR)

▼ Ships in multiple boxes.

A Century of Tradition and Quality.

For more than 100 years, Elkay has been making innovative products and providing exceptional customer care. We take pride in offering plumbing products that make life easier, inspire change and leave the world a better place.



PRODUCT COMPLIANCE

ADA & ICC A117.1

ASME A112.19.3/CSA B45.4

Buy American Act

CAN/CSA C22.2 No. 120

GreenSpec®

NSF/ANSI 61 & 372 (lead free)

UL 399



Complies with ADA & ICC A117.1 accessibility requirements when installed according to the requirements outlined in these standards. Installation may require additional components and/or construction features to be fully compliant. Consult the local Authority Having Jurisdiction if necessary.

[Installation Instructions \(PDF\) - 1000002243](#)

5 Year Limited Warranty on the refrigeration system of the unit. Electrical components and water system are warranted for 12 months from date of installation. **Warranty pertains to drinking water applications only. Non-drinking water applications are not covered under warranty.**

[Warranty \(PDF\)](#)

In keeping with our policy of continuing product improvement, Elkay reserves the right to change product specifications without notice. Please visit elkay.com for the most current version of Elkay product specification sheets. This specification describes an Elkay product with design, quality, and functional benefits to the user. When making a comparison of other producers' offerings, be certain these features are not overlooked.

- | Optional Accessories | | |
|--------------------------|---|---|
| EWF3000 | Elkay WaterSentry Filter System Kit (Bottle Fillers)
Spec Sheet (PDF) |  |
| LKAPREZL | Elkay Cane Apron for EZ Gray
Spec Sheet (PDF) |  |
| MLP200 | In-wall Carrier for Bi-level On-wall Bottle Fillers Coolers & Fountains
Spec Sheet (PDF) |  |



McGuire Manufacturing Co., Inc.

60 Grandview Court
Cheshire, Connecticut 06410
(203) 699-1801 Fax (203) 699-1813
customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

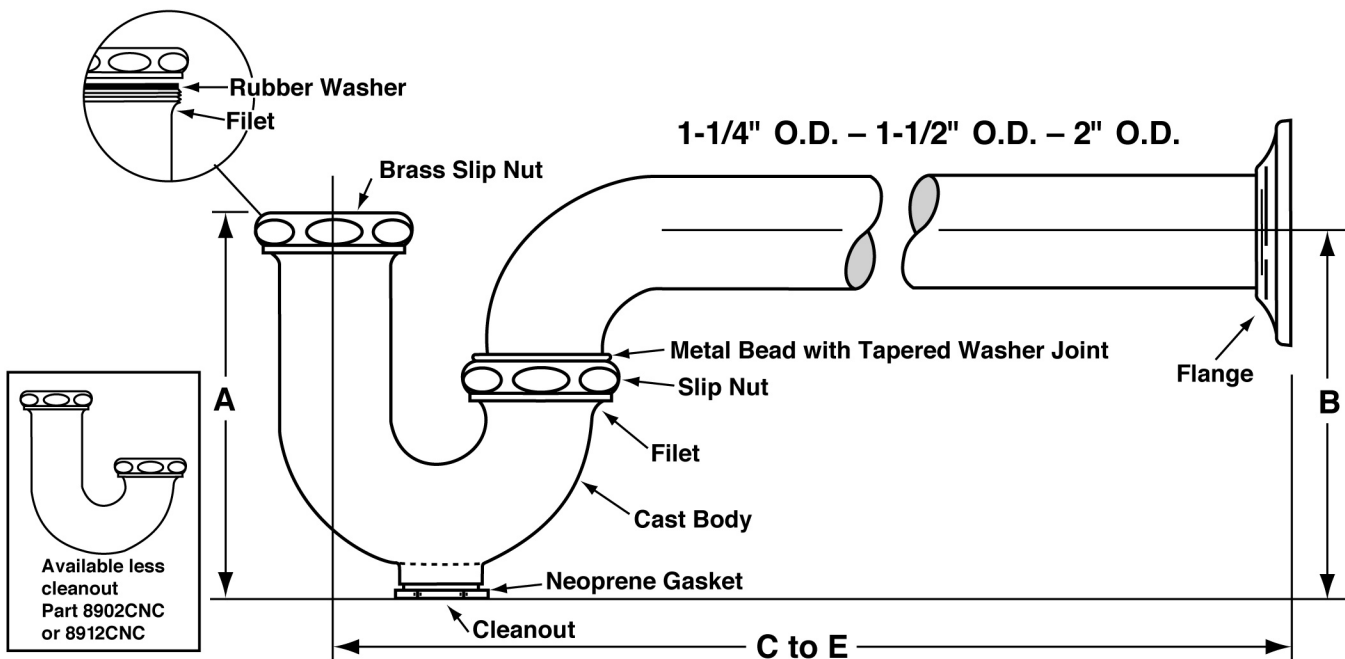
Part No.

8872C

Cast Body P-Trap
With or Without Cleanout

Job Name:

Submittal Number:



PROFESSIONAL LINE

ROUGHING MEASUREMENTS

NO.	TRAP DIMENSIONS		A	B	C to E
	INLET	OUTLET			
8872C	1-1/4"	1-1/4"	4-1/2"	4-1/4"	11-1/2"

- Rated Operating Temperature: 40-140°F
- Note: 180°F max. during temporary high-temperature system flush

FED SPEC W.W.P. 541

CAST BRASS P TRAP
MINIMUM SEAL 2"



See options and accessories section for details on product variations.

ASME A112.18.2/CSA B125-2

Specifications:

P-Trap shall be chrome plated cast brass body (with, without) cleanout, with 17 gauge seamless tubular wall bend, cast brass slip nuts. Reducing washers shall be used with reducing cast brass nut. With (shallow, deep, bell) (steel, brass) or (forged brass with set screw) flange.

P-Trap shall be McGuire "Classic" Professional Line

Trap shall be certified by CSA or other recognized testing authority. Trap shall bear manufacturer and testing marks.



WARNING:

This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



McGuire Manufacturing Co., Inc.

60 Grandview Court

Cheshire, Connecticut 06410

(203) 699-1801 Fax (203) 699-1813

customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

Part No.

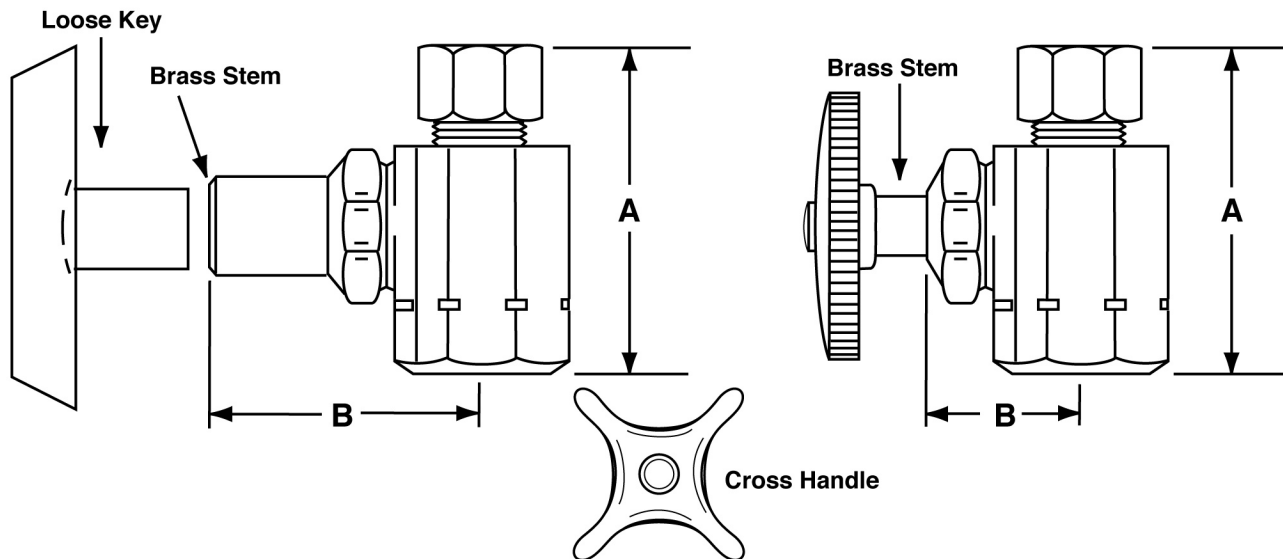
LFST12

**Straight Supply Stop
I.P.S. x O.D.**

Job Name:

Submittal Number:

Pipe To Compression



NO.	DESCRIPTION	ROUGHING MEASUREMENTS	
		A	B
LFST12	1/2" I.P.S. x 3/8" O.D.	1-15/16"	7/8"

- Rated Operating Pressure: 20-125 PSI
- Rated Operating Temperature: 40-140°F
- Note: 180°F max. during temporary high-temperature system flush

LK designates *Loose Key*

X designates *Heavy Brass Cross Handle*

See options and accessories section for details on product variations.



Specifications:

Chrome plated brass, Supply Stop Valve with full turn brass stem. Inlet shall be (3/8, 1/2) inch (IPS, sweat, compression). Outlet shall be (3/8, 1/2) inch (IPS, compression). Supply stop valve shall be McGuire. Supply stop valve shall be certified by CSA or other recognized testing authority and bear manufacturer and testing mark. Stop to be certified to 200 psi line pressure.



WARNING:

This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

CARRIER

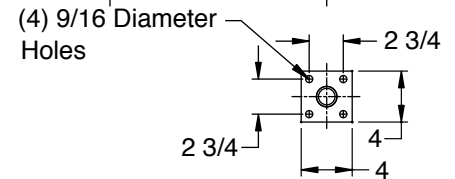
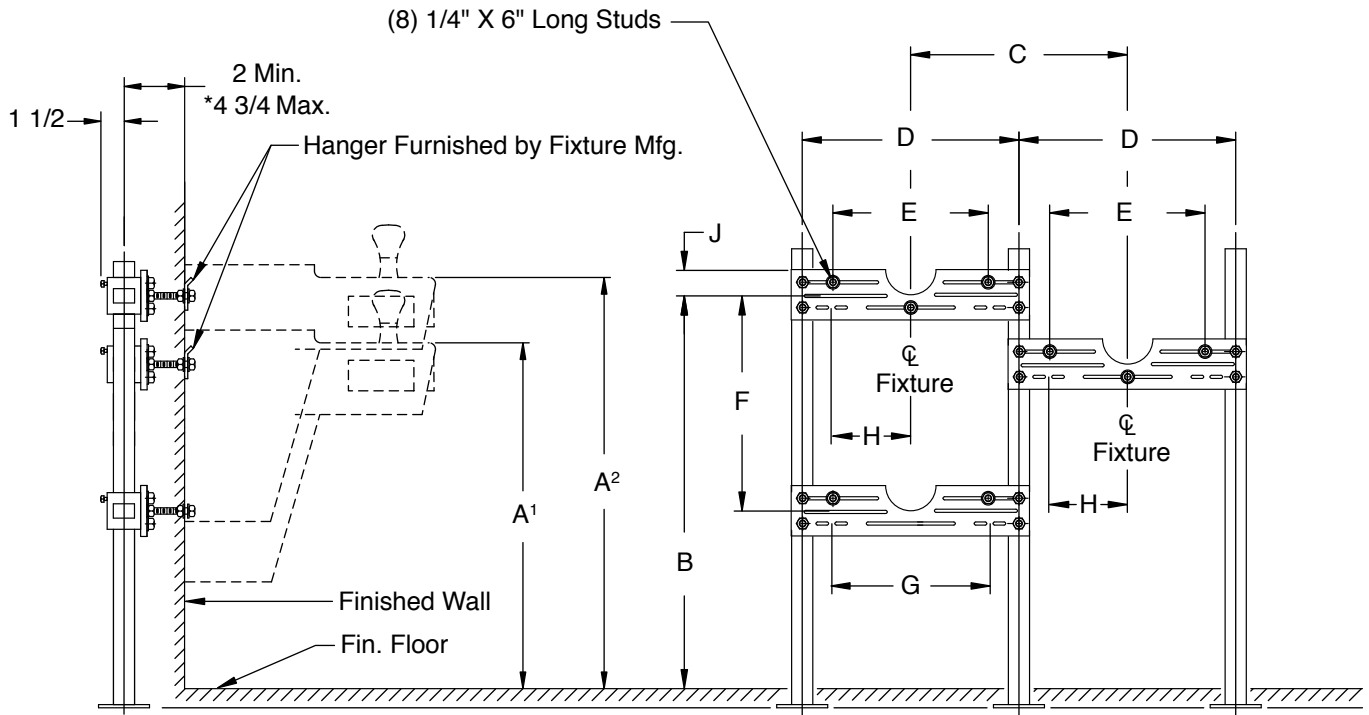


JAY R. SMITH MFG. CO.
MEMBER OF MORRIS GROUP INTERNATIONAL
POST OFFICE BOX 3237
MONTGOMERY, ALABAMA 36109-0237 (USA)
TEL: 334-277-8520 FAX: 334-272-7396 www.jrsmith.com



LOCATION

FIXTURE SUPPORT FLOOR MOUNTED TYPE WITH SUPPORT PLATES AND FIXTURE MOUNTING STUDS FOR TWO WALL MOUNTED ELECTRICAL WATER COOLERS



BASE DETAIL

FIXTURE MANUFACTURER			NUMBER						
A ¹	A ²	B	C	D	E	F	G	H	J

NOTE: Uses 70085-86-6 Universal Support Plates - 3 required.

NOTE: *This dimension can be increased when fixture support is to be installed behind the wall. (Specify when required and wall thickness).

NOTE: The rough-in dimensions listed on this drawing are based on current information available to Jay R. Smith by the fixture manufacturers. We recommend that you verify these dimensions with the fixture manufacturer. We will not accept responsibility for rough-in dimension changes by the fixture manufacturer.

DRAWING NUMBER
S0834L

SIZE
A

SCALE:
NONE

DATE:
11-11-08

APPROVED BY:
AM

CHECKED BY:
AM

DRAWN BY:
RN

0834L

FIGURE
NUMBER

WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA

DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCE AND CHANGE WITHOUT NOTICE

REV.	DATE	DESCRIPTION	BY	CKD. BY

WEIGHT
POUNDS

VOLUME
CUBIC FEET

FIGURE NUMBER

0834L



WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

P-11

STERN
WILLIAMS
SERVICEPTOR
MOP SERVICE BASINS
**ARCHITECTURAL
SPECIFICATIONS**

Model No. (**SB-900**) Size (**24X24X12**), as manufactured by Stern-Williams Co., Inc. Shoulders shall not be less than 9-3/4" high inside measurement, and not less than 1-1/4" wide. Tiling flange, cast integral, shall extend 1" above shoulder on 1,2 or 3 sides (as job required). Drain shall be cast brass with stainless steel strainer cast integral and shall provide for a caulked lead connection not less than 1" deep to a 3" pipe. Receptor composed of pearl grey marble chips and white Portland cement ground smooth, grouted and sealed to resist stains. Stainless steel cap of one piece 20 ga. 302 stainless steel cast integral on all four sides.



WITH STAINLESS STEEL CAP

WITHOUT STAINLESS STEEL CAP

MODEL	FLANGES
24" X 24" x 12"	
SB-900	without tiling flange
SB-901	w/tiling flange - 1 sd.
SB-902	w/tiling flange - 2 sds.
SB-903	w/tiling flange - 3 sds.
32" X 32" x 12"	
SB-700	without tiling flange
SB-701	w/tiling flange - 1 sd.
SB-702	w/tiling flange - 2 sds.
SB-703	w/tiling flange - 3 sds.

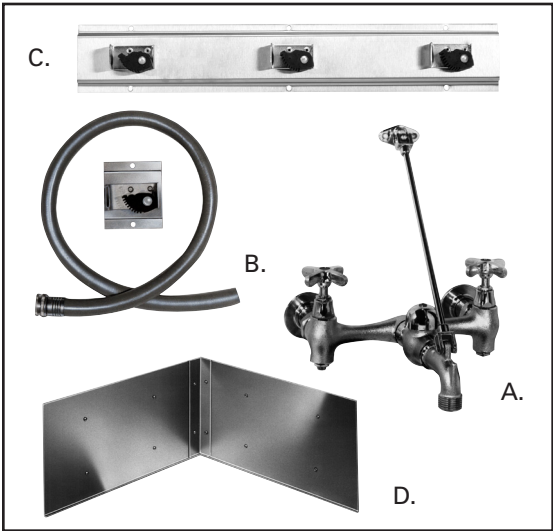
MODEL	FLANGES
36" X 36" x 12"	
SB-500	without tiling flange
SB-501	w/tiling flange - 1 sd.
SB-502	w/tiling flange - 2 sds.
SB-503	w/tiling flange - 3 sds.
36" X 24" x 12"	
SB-300	without tiling flange
SB-301	w/tiling flange - 1 sd.
SB-302-L	w/tiling flange - 2 sds.
SB-302-R	w/tiling flange - 2 sds.
SB-303	w/tiling flange - 3 sds.

MODEL	FLANGES
24" X 24" x 12"	
SB-800	without tiling flange
SB-801	w/tiling flange - 1 sd.
SB-802	w/tiling flange - 2 sds.
SB-803	w/tiling flange - 3 sds.
32" X 32" x 12"	
SB-600	without tiling flange
SB-601	w/tiling flange - 1 sd.
SB-602	w/tiling flange - 2 sds.
SB-603	w/tiling flange - 3 sds.

MODEL	FLANGES
36" X 36" x 12"	
SB-400	without tiling flange
SB-401	w/tiling flange - 1 sd.
SB-402	w/tiling flange - 2 sds.
SB-403	w/tiling flange - 3 sds.
36" X 24" x 12"	
SB-200	without tiling flange
SB-201	w/tiling flange - 1 sd.
SB-202-L	w/tiling flange - 2 sds.
SB-202-R	w/tiling flange - 2 sds.
SB-203	w/tiling flange - 3 sds.

* Flange is across back and on LEFT side on model numbers ending in "L".

* Flange is across back and on RIGHT side on model numbers ending in "R".



QUALITY OPTIONAL FITTINGS

- A. **T-10-VB** Mop-Service sink fitting with vacuum breaker, adjustable top brace, 3/4" hose thread on spout with bucket hook inlets 8" on center, chrome finish.
T-15 VB same as above with polished chrome finish.
- B. **T-35** Hose and wall hook. Hose 36" long, with 3/4" chrome couplings. Wall bracket of stainless steel.
- C. **T-40** Stainless Steel Mop Hanger of stainless steel with #4 finish. . . 24" long, with 3 rubber spring loaded grips.
- D. **BP** Splash Catcher Panels of 20 ga. type 304 stainless steel.

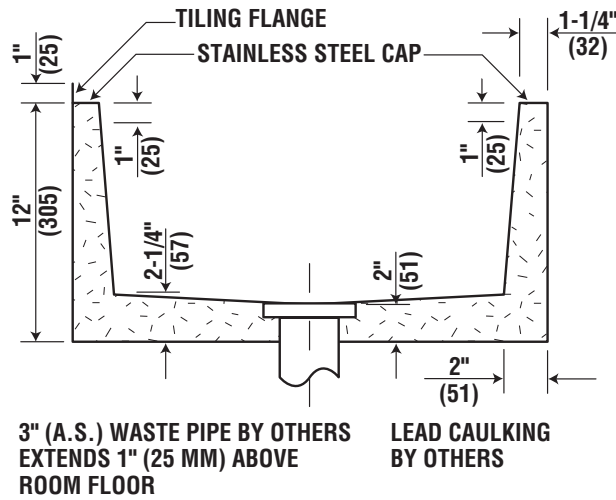
JOB

ARCHITECT

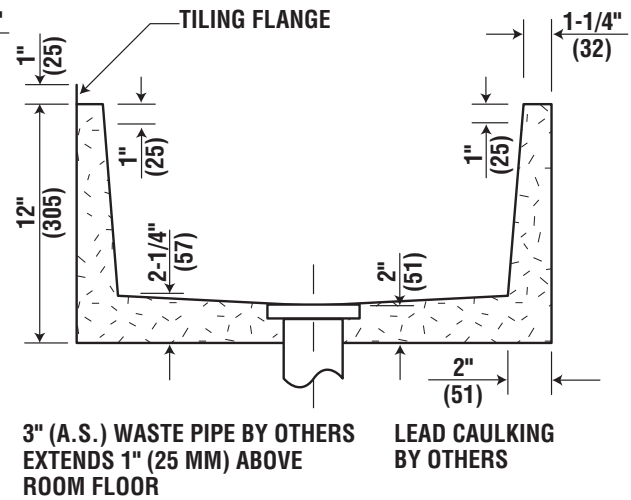
LOCATION

ENGINEER

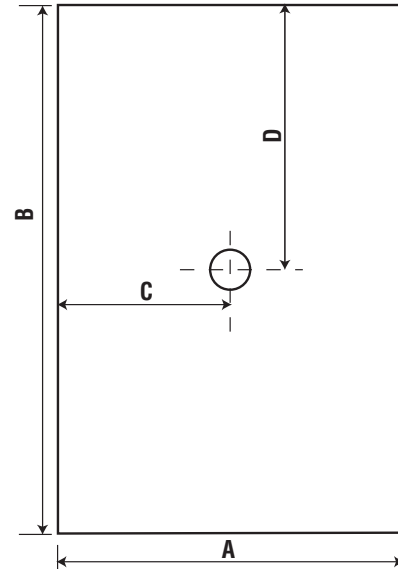
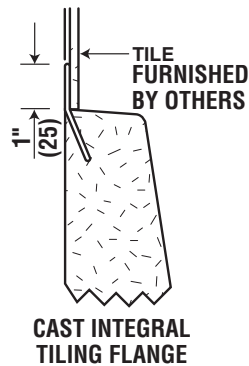
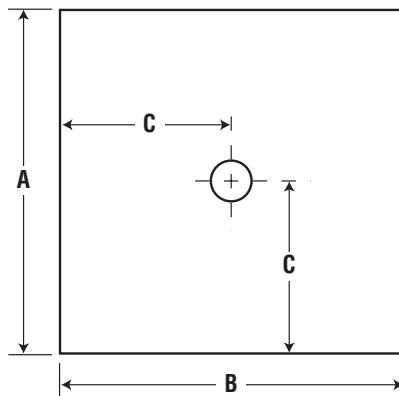
**CROSS SECTION
900, 700, 500 AND 300 SERIES**



**CROSS SECTION
800, 600, 400 AND 200 SERIES**



ROUGH-IN



Height all models 12", 305 MM

SERIES	A		B		C	
	INCHES	MM	INCHES	MM	INCHES	MM
900	24	610	24	610	12	305
800	24	610	24	610	12	305
700	32	813	32	813	16	406
600	32	813	32	813	16	406
500	36	914	36	914	18	457
400	36	914	36	914	18	457

Height all models 12", 305 MM

SERIES	A		B		C		D	
	INCHES	MM	INCHES	MM	INCHES	MM	INCHES	MM
300	24	610	36	914	12	305	18	457
200	24	610	36	914	12	305	18	457

Note: All dimensions subject to manufacturing variance of plus or minus 1/4" (6 MM).



T&S BRASS AND BRONZE WORKS, INC.

2 Saddleback Cove / P.O. Box 1088
Travelers Rest, SC 29690

Model No.

B-0665-BSTP

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com



ADA Compliant

This Space for Architect/Engineer Approval

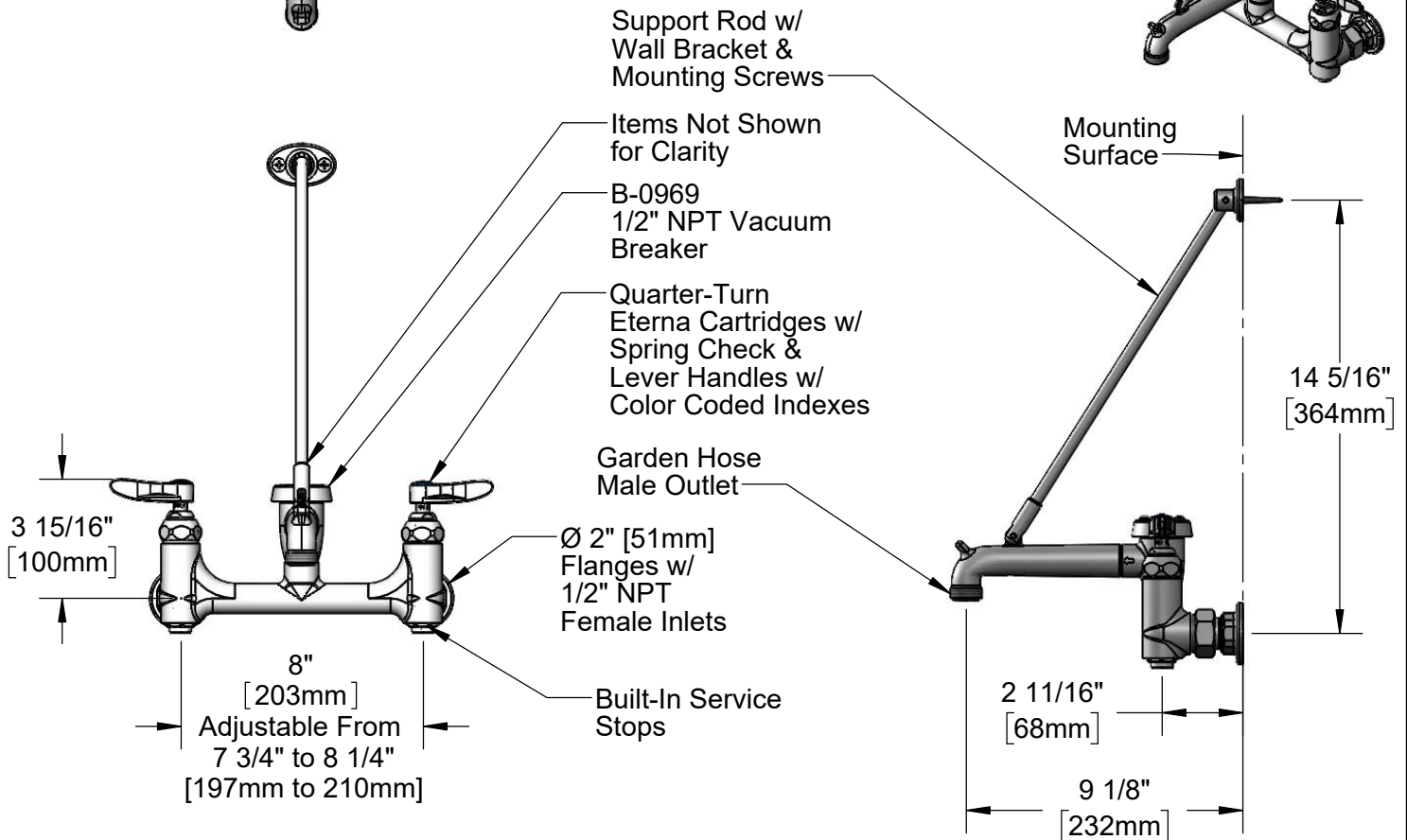
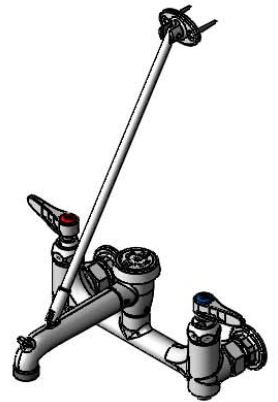
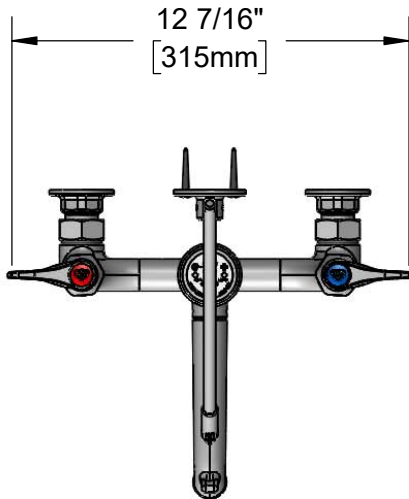
Job Name _____ Date _____

Model Specified _____ Quantity _____

Customer/Wholesaler _____

Contractor _____

Architect/Engineer _____



Product Specifications:

8" Wall Mount Service Sink, Quarter-Turn Eterna Cartridges w/ Spring Checks, Lever Handles, Upper Support Rod, Built-In Stops, Garden Hose Male Outlet, Polished Chrome Finish, 1/2" NPT Vacuum Breaker & 1/2" NPT Female Inlets

Product Compliance:

ASME A112.18.1 / CSA B125.1
NSF 61 - Section 9
NSF 372 (Low Lead Content)
ANSI A117.1 (ADA)
ASSE 1001 (VB)



T&S BRASS AND BRONZE WORKS, INC.

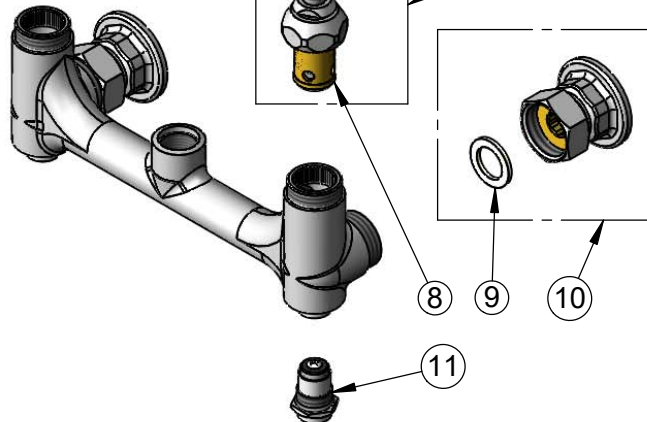
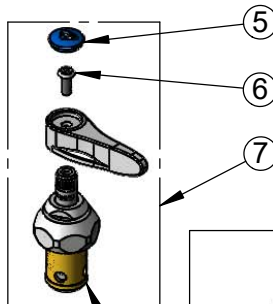
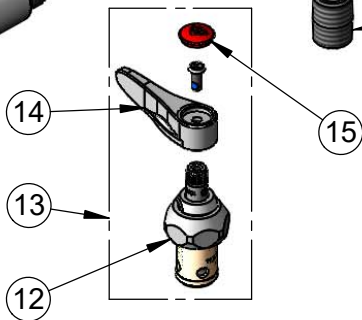
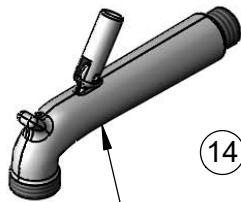
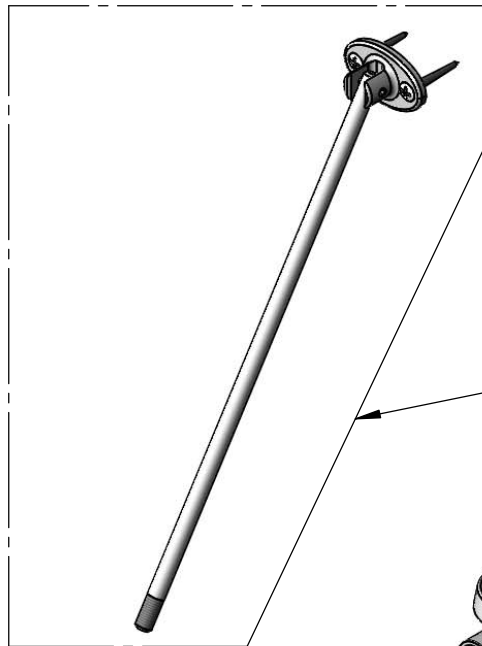
2 Saddleback Cove / P.O. Box 1088
Travelers Rest, SC 29690

Model No.

B-0665-BSTP

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com



ITEM NO.	SALES NO.	DESCRIPTION
1	009545-40	Spout w/ Male GH Outlet & Upper Clevis - Polished Chrome
2	009546-40	Upper Support Rod
3	B-0969	1/2" NPT Vacuum Breaker
4	002534-25	Close Nipple, 1/2" NPT
5	018506-19NS	Blue Button Index, Press-in
6	000925-45	Lab Handle Screw
7	002711-40NS	Quarter-Turn Eterna Cartridge w/ Spring Check, Handle, Blue Index & Screw, LTC
8	012442-40NS	Quarter-Turn Eterna Cartridge w/ Spring Check, LTC
9	001019-45	Coupling Nut Washer
10	00AA	1/2" NPT Female Eccentric Flange
11	163A	Built-in Service Stop
12	012443-40NS	Quarter-Turn Eterna Cartridge w/ Spring Check, RTC
13	002712-40NS	Quarter-Turn Eterna Cartridge w/ Spring Check, Handle, Red Index & Screw, RTC
14	001638-45NS	Lever Handle (New Style)
15	001193-19NS	Red Button Index, Press-in

Product Specifications:

8" Wall Mount Service Sink, Quarter-Turn Eterna Cartridges w/ Spring Checks, Lever Handles, Upper Support Rod, Built-In Stops, Garden Hose Male Outlet, Polished Chrome Finish, 1/2" NPT Vacuum Breaker & 1/2" NPT Female Inlets

Product Compliance:

ASME A112.18.1 / CSA B125.1
NSF 61 - Section 9
NSF 372 (Low Lead Content)
ANSI A117.1 (ADA)
ASSE 1001 (VB)



Sink Faucet Wallmount

Stainless steel mop hanger

76mm x 660mm(3" X 26")

3 spring loaded rubber grip holders.

Model No: 28T910

COMPLIES WITH:

- (Contact Delta Representative for State and/or Local Approvals)

SPECIFICATION:

- Stainless steel mop hanger,
- 76mm x 660mm(3" X 26"),
- 3 spring loaded rubber grip holders.

OPERATION:

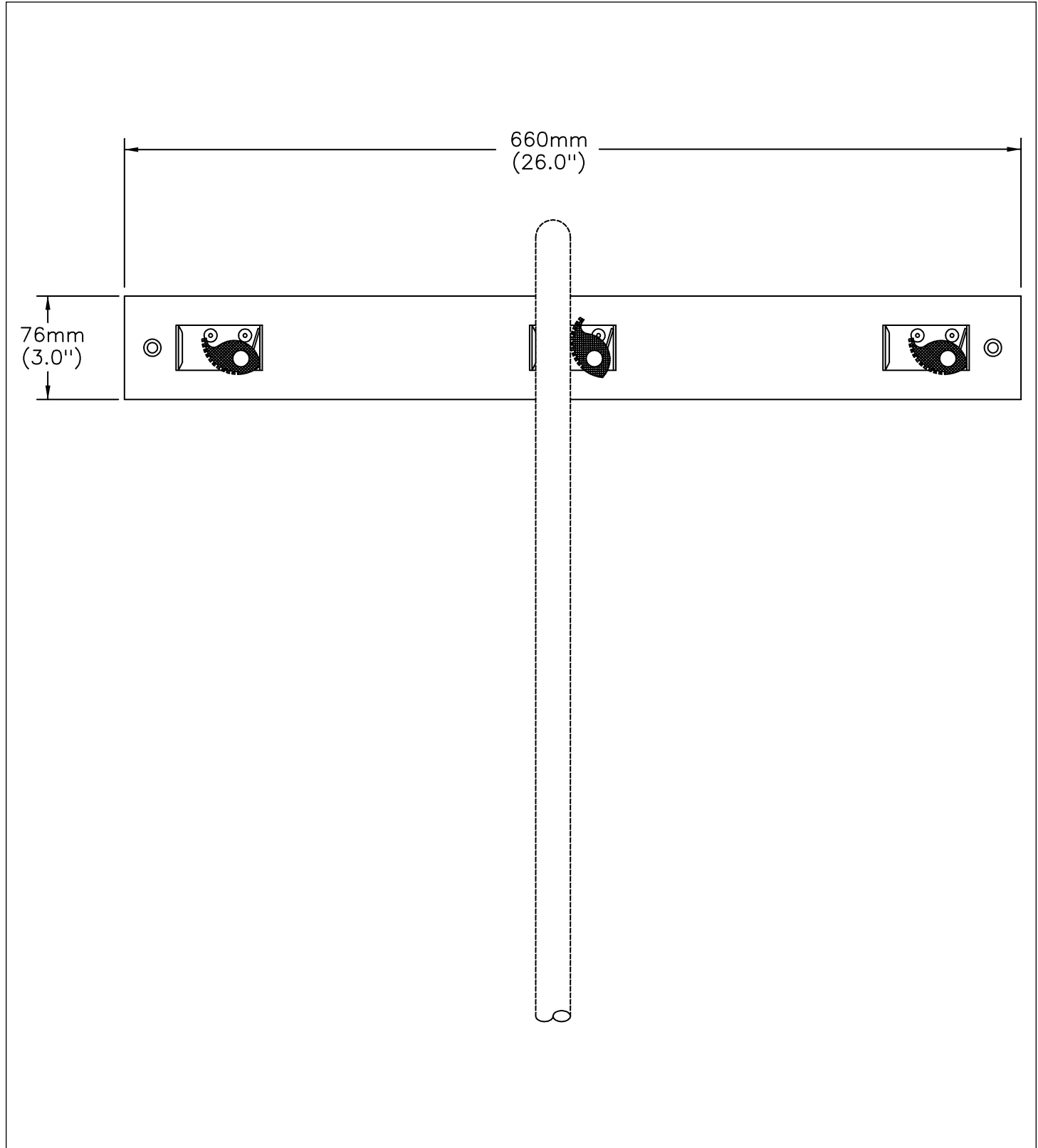
- Not Available

(Dimensional drawing on following page)

Delta reserves the right (1) to make changes to specifications and materials, and (2) to change or discontinue models, both without notice or obligation. Dimensions are for reference. Measurement may vary plus or minus 6mm(0.25"). Mounting locations are suggested only. Check with local codes for requirements in your area. This spec was produced April 13, 2021.

Delta Faucet Company - 55 East 111th St. - Indianapolis, Indiana, USA 46280 - (317) 848-1812
Delta Faucet Canada - 395 Matheson Blvd E - Mississauga, Ontario, Canada L4Z 2H2 - (905) 712-3030

Model No: 28T910



Delta reserves the right (1) to make changes to specifications and materials, and (2) to change or discontinue models, both without notice or obligation. Dimensions are for reference. Measurement may vary plus or minus 6mm(0.25"). Mounting locations are suggested only. Check with local codes for requirements in your area. This spec was produced April 13, 2021.

Delta Faucet Company - 55 East 111th St. - Indianapolis, Indiana, USA 46280 - (317) 848-1812
 Delta Faucet Canada - 395 Matheson Blvd E - Mississauga, Ontario, Canada L4Z 2H2 - (905) 712-3030



Sink Faucet Wallmount

Heavy duty 1219mm(48") long reinforced hose
brass coupling
stainless steel hanger bracket
76mm x 102mm(3" x 5")
with rubber grip

Model No: 28T911

COMPLIES WITH:

- (Contact Delta Representative for State and/or Local Approvals)

SPECIFICATION:

- Heavy duty 1219mm(48") long reinforced hose,
- Brass coupling,
- Stainless steel hanger bracket,
- 76mm x 127mm(3" x 5") with rubber grip

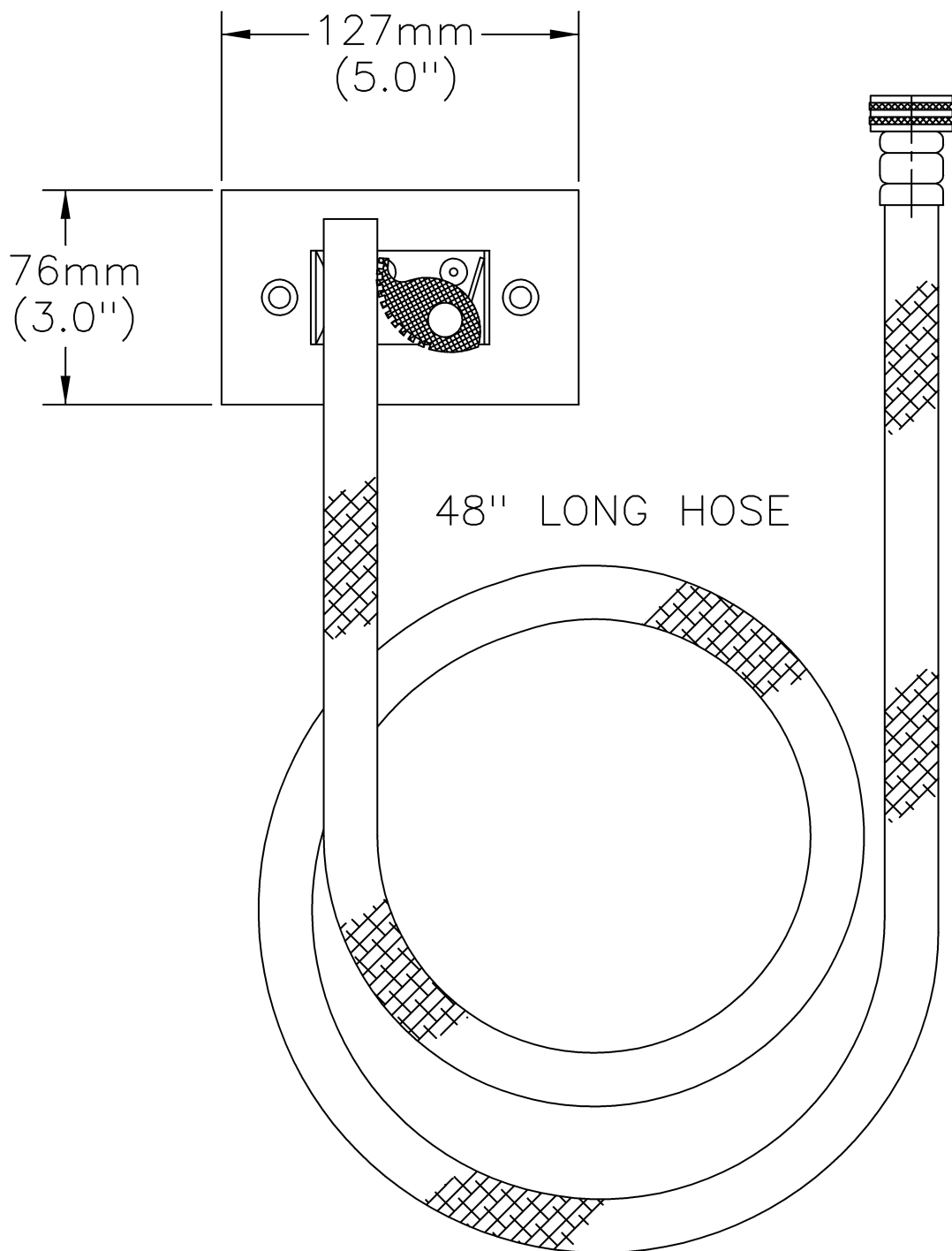
OPERATION:

- Not Available

(Dimensional drawing on following page)

Delta reserves the right (1) to make changes to specifications and materials, and (2) to change or discontinue models, both without notice or obligation. Dimensions are for reference. Measurement may vary plus or minus 6mm(0.25"). Mounting locations are suggested only. Check with local codes for requirements in your area. This spec was produced April 13, 2021.

Delta Faucet Company - 55 East 111th St. - Indianapolis, Indiana, USA 46280 - (317) 848-1812
Delta Faucet Canada - 395 Matheson Blvd E - Mississauga, Ontario, Canada L4Z 2H2 - (905) 712-3030



Delta reserves the right (1) to make changes to specifications and materials, and (2) to change or discontinue models, both without notice or obligation. Dimensions are for reference. Measurement may vary plus or minus 6mm(0.25"). Mounting locations are suggested only. Check with local codes for requirements in your area. This spec was produced April 13, 2021.

Delta Faucet Company - 55 East 111th St. - Indianapolis, Indiana, USA 46280 - (317) 848-1812
Delta Faucet Canada - 395 Matheson Blvd E - Mississauga, Ontario, Canada L4Z 2H2 - (905) 712-3030

Splash Catcher® BACK PANELS

Avoid complaints about damaged
or deteriorating wallboard.

Add "BP" to your mop sink specifications.

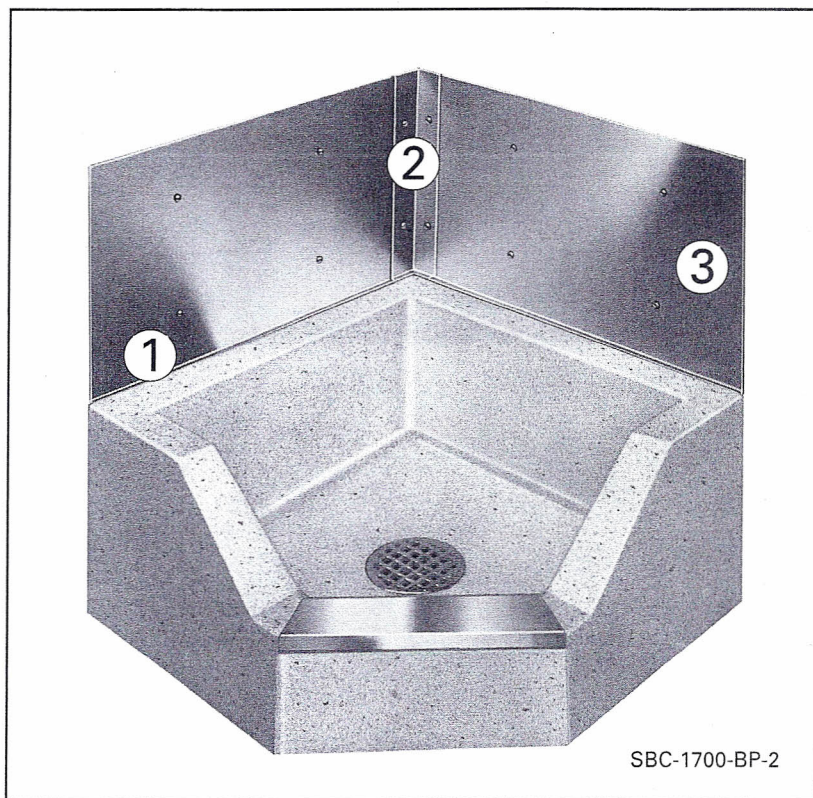
STERN-WILLIAMS
Stainless Steel panels
cover the critical
12 inches of wallboard
just above the mop sink.

The unfinished wallboard being used
in maintenance closets today
cannot withstand the conditions
that exist there. But you can
prevent problems before they begin.

TO SPECIFY:

Add suffix "BP" to the Stern-Williams
model number, along with the number of
walls. For example, Corlow corner model
with front drop is "SBC-1700-BP-2"

Panel material is type 304, 20-gauge
Stainless Steel, meeting Commercial
Standard CS-243-62.



1. Channel water into the mop sink, protecting the face of the wallboard against splashing, and protecting the raw lower edge against seepage.
2. Cover and protect the seam-taped corners, preventing loosening and curling of seam tape.
3. Protect wallboard against the impact of equipment and the carelessness of maintenance workers.

Stern-Williams is your most complete source for mop sinks and accessories.

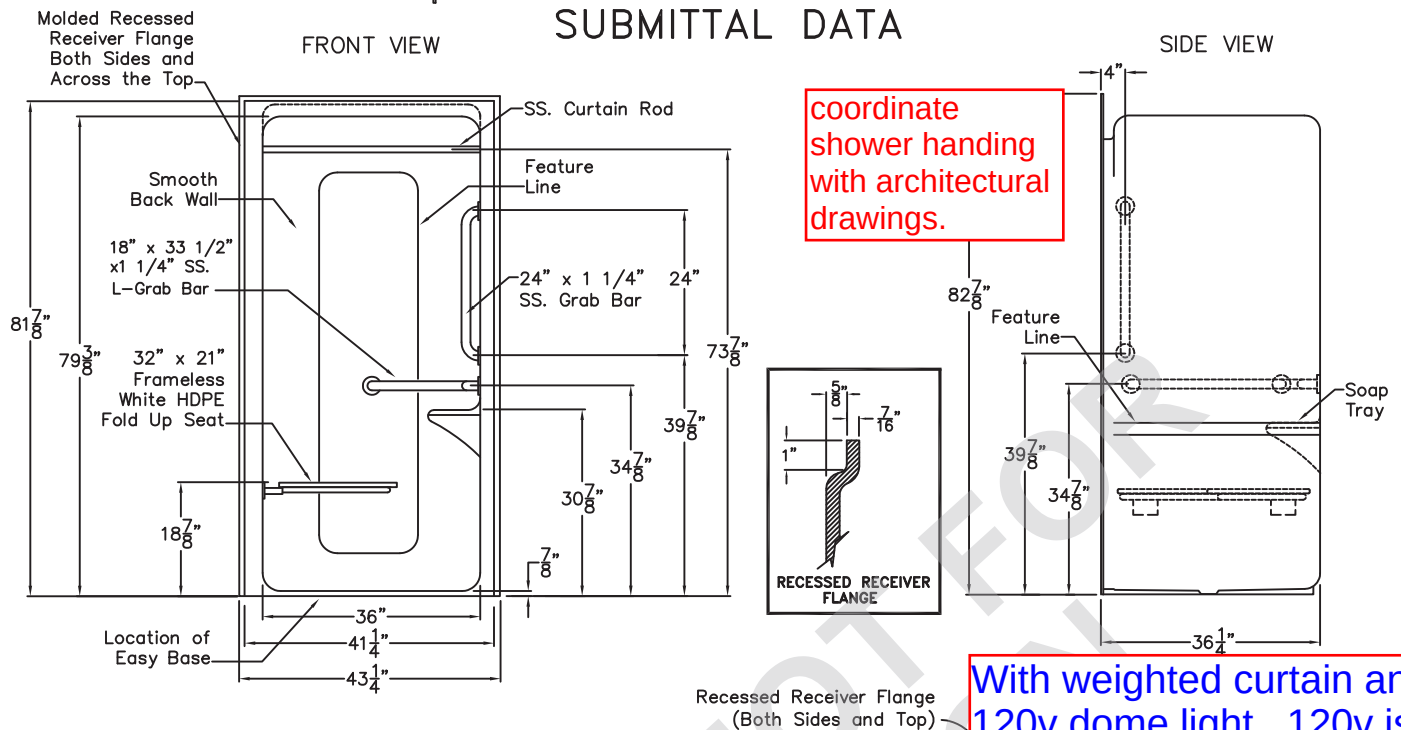
We produce mop sinks. We help you avoid problems.

STERN-WILLIAMS CO., INC. • P.O. Box 8004 • Shawnee Mission, Kansas 66208 USA
Telephone: (913) 362-5635 • Fax: (913) 362-6689 • Web address: www.sternwilliams.com

P-12

Special Needs Series

SUBMITTAL DATA



With weighted curtain and 120v dome light. 120v is only voltage available.

Acrylic Transfer Shower

This enclosure shall be model S 4136 BF. Finished surface shall be of sanitary-grade cast acrylic. The unit shall have inside dimensions of 36" x 36" x 75" and outside dimensions of 43 1/4" x 39 1/4" x 82 7/8". The shower shall meet ANSI Z124.1, ADA, and ICC/ANSI A117.1.

The enclosure shall be equipped with the following accessories:

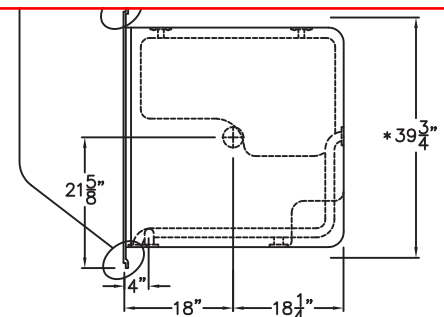
1) One 18" x 33 1/2" x 1 1/4" diameter stainless steel horizontal L-grab bar; 2) One 24" x 1 1/4" diameter stainless steel vertical grab bar on the valve wall, both with 1 1/2" statute clearance, mounted with stainless steel bolts, and secured from the rear with 3" x 3" x 11 gauge metal mounting plates; 3) 32" x 21" frameless white HDPE fold up seat; 5) One inch diameter stainless steel curtain rod; 6) Smooth back wall with no diamond pattern; 7) Recessed receiver flange along both sides; 8) Factory installed Easy Base self sustaining bottom; 9) 7/8" threshold.

Available options: 10) Recessed soap dish; 11) Dome light; 12) Valve package; 13) Molded seat; 14) Green anti-bacterial shower curtain with hooks; 15) white weighted shower curtain with hooks.

THIS UNIT FEATURES THE OUTSIDE DIMENSIONS OF 39" OF OVERALL WIDTH. THIS DOES NOT ALLOW FOR FULL ENCLOSURE OF THE BOLTS THAT ARE USED TO SECURE THE BARS AND SEAT IN PLACE. THE BOLT AND NUT COMBINATION SHOULD NOT PROTRUDE ANY MORE THAN 3/4" ON EITHER SIDE OF THE SHOWER WALLS. THIS MAY REQUIRE THE NEED TO NOTCH STUDS TO ALLOW BOLT CLEARANCE FOR INSTALLATION.

FOR A DRY WALL ENCLOSED FIRE WALL INSTALLATION, ADJUSTMENT OF THE WALLBOARD MAY BE NECESSARY TO PROVIDE CLEARANCE OF THE BOLT (S) WHILE MAINTAINING THE INTEGRITY OF THE DRYWALL ENCLOSED FIRE WALL ENCLOSURE.

NOTE: THIS UNIT WILL NOT ACCEPT A DOOR!



ROUGH IN DIMENSIONS FOR UNITS WITHOUT SEAT FEATURED: 38 1/4" x 37 1/4" x 82 7/8"

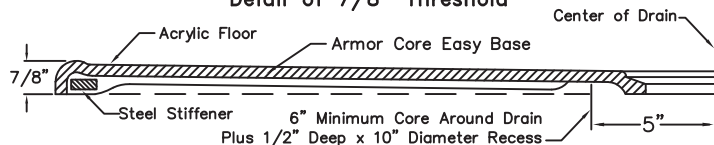
ROUGH IN DIMENSIONS FOR UNITS FEATURING A MOLDED SEAT: 38" x 37 1/4" x 82 7/8"

ROUGH IN DIMENSIONS FOR UNITS FEATURING A FOLD UP SEAT: 39 3/4" x 37 1/4" x 82 7/8"

* NOTE: THIS DIMENSION IS NOT TO SCALE. THIS DIMENSION INCLUDES NUTS/BOLTS, WOOD AND HARDWARE REQUIRED FOR ASSEMBLY. OFFSET THE 39 3/4", 1/2" TOWARDS THE FOLD UP SEAT SIDE TO ALLOW FOR THE BOARD.

DUE TO THE NATURE OF THE MATERIALS INVOLVED, UNIT DIMENSIONS MAY VARY ± 1/2 INCH.

Detail of 7/8" Threshold



AQUARIUS

Approved by Print Name:

Drawing#: S 4136 BF .875 SLB VB FHDP
CR RRF Easy Base Smooth

Approved by Signature:

Date:

Date: 6-1-07

Revised: 6-25-19

Rep.:

Wholesaler:

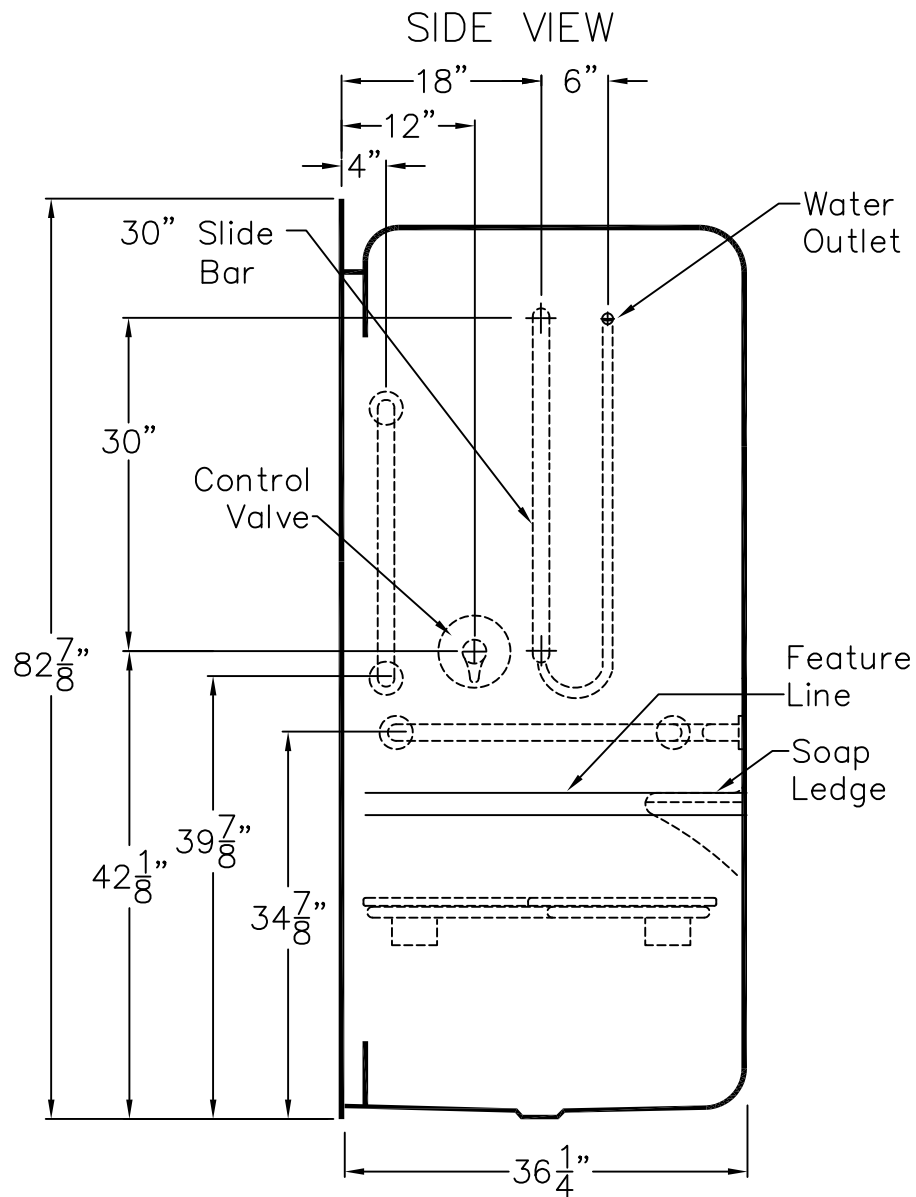
Quote No.:

PRAXIS INDUSTRIES, LLC.

435 INDUSTRIAL RD - SAVANNAH, TN 38372
1 (800) 443-7269 - FAX (731) 925-4290

Special Needs Series

SUBMITTAL DATA



NOTE: Plumbing fixture must be air tested to 95 PSI for five minutes after installation.

NOTE: No Factory Piping For Valve Package

DUE TO THE NATURE OF THE MATERIALS INVOLVED, UNIT DIMENSIONS MAY VARY ± 1/2 INCH.

Job Name:		AQUARIUS	
Model No.:		Drawing#: S4136 BF .875 SLB VB FHDP CR RRF VP Easy Base Smooth	
Approved by:	Date Approved:	Date: 6-1-07	Revised: 12-2-22
Rep.:	Wholesaler:	Quote No.:	

PRAXIS INDUSTRIES, LLC.
435 INDUSTRIAL RD - SAVANNAH, TN 38372
1 (800) 443-7269 - FAX (731) 925-4290



4700 W. 160th St.
Cleveland, OH 44135
PH:800-321-9532
FX:800-321-9535
www.oatey.com

TECHNICAL SPECIFICATION

140 SERIES / 101 PNC SERIES BRASS AND PLASTIC NO-CALK SHOWER DRAIN



TECHNICAL SPECIFICATION: Oatey Brass and Plastic No-Calk Shower Drains are designed for use with preformed shower stall bases. The drain body is sealed to the shower base with a fiber and rubber washer. 2" Schedule 40 DWV pipe is secured with a mechanically compressed gasket that does not require caulking. Drain top accommodates 4-1/4" Universal Snap-Tite Strainers available in a variety of designer finishes.



PHYSICAL/CHEMICAL PROPERTIES

Drain Body Material Cast Brass Metal
 ABS Plastic = Black
 PVC Plastic = White

COMMON APPLICATIONS

Oatey No-Calk Shower Drains are designed for use with preformed shower stall bases. The drain body is sealed to the shower base with a fiber and rubber washer. 2" Schedule 40 DWV pipe is secured with a mechanically compressed gasket that does not require caulking. Drain top accommodates 4-1/4" Universal Snap-Tite Strainers available in a variety of designer finishes.

- Made of Cast Brass or Plastic
- Ideal for Slab Construction
- Available with 4.25" Stainless Steel or UltraShine PVD Polished Brass Snap-Tite Strainer
- Compression gasket tightens around 2" Schedule 40 DWV pipe with caulking nut and wrench
- Can be used with 1-1/2" Schedule 40 DWV pipe and 1-1/2" or 2" Copper DWV pipe when caulking gasket is replaced

	PRODUCT NUMBER	DESCRIPTION	PACK	CARTON WEIGHT
	42150	Brass No-Calk Shower Drain w/Stainless Steel Strainer	12	20 lbs.
	42084	ABS No-Calk Shower Drain w/Stainless Steel Strainer	12	7 lbs.
	42099	PVC No-Calk Shower Drain w/Stainless Steel Strainer	12	8 lbs.
	42077	ABS No-Calk Shower Drain w/White Plastic Strainer	12	6 lbs.
	42075	PVC No-Calk Shower Drain w/White Plastic Strainer	12	8 lbs.
	42080	PVC No-Calk Shower Drain w/ UltraShine® PVD Polished Brass Strainer	12	8 lbs.
		NO-CALK SHOWER DRAIN ACCESSORIES		
	42163	Caulking Gasket for 1-1/2" Schedule 40 DWV	12	1 lb.
	42156	Caulking Gasket for 2" Schedule 40 DWV	12	1 lb.
	42157	Rubber Caulking gasket to fit 2" No-hub cast iron pipe	12	1 lb.
	42159	Caulking Gasket for 1-1/2" Copper DWV	12	1 lb.
	42158	Caulking Gasket for 2" Copper DWV	12	1 lb.
	42239	NO-CALK shower drain wrench- carded	4	5lbs.



SYMMONS® Origins®

the smart choice™

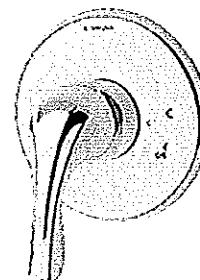
9600-PLR, 9600-PLR-TRM, 9600PLRTRMTC

Shower Valve Trim

Specification Submittal

Location:

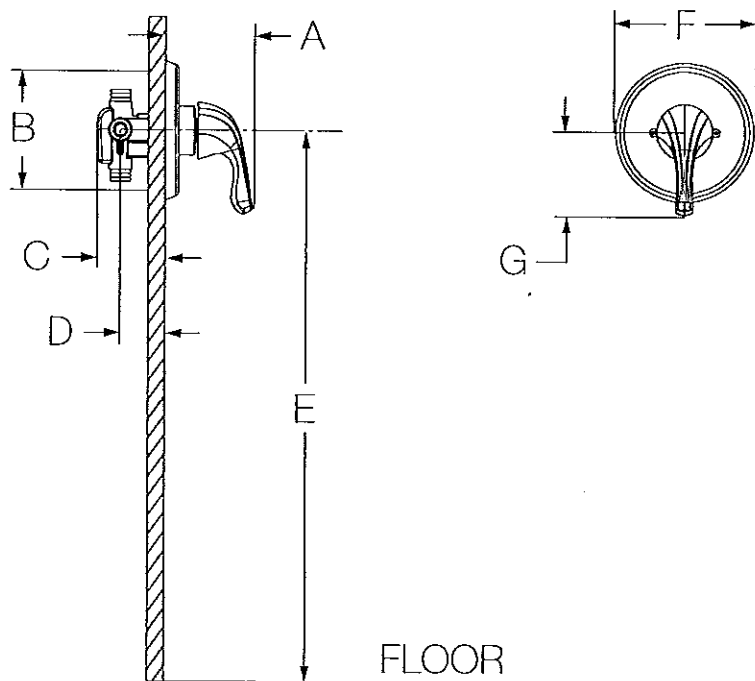
1 VAL 360
1 VAL 361 + 1 VAL 361 TRIM



Feature Highlights	Options/Modifications
- Origins Shower Valve System or Trim - Requires Temptrol® Pressure Balancing Shower Valve (included with 9600-PLR) - Adjustable stop screw to limit handle turn (included with 9600-PLR) - Metal lever handle - Diverter tub spout not included - Showerhead not included - Components shall be metal and nonmetallic construction, plated in standard Polished Chrome finish - Available with TA-10 flow control spindle and T-12A cap assembly for Temptrol valve bodies installed with Test Cap (order p/n 9600PLRTRMTC)	☐ -B Brass escutcheon (chrome only) ☐ -D Brass dome cover (chrome only) ☐ -LAM  Metal finish insert handle ☐ -LP  Loop handle ☐ -OP 13" oval plate ☐ -REB Rebuild trim kit, includes TA-10 and TA-4 ☐ -VP Vandal resistant escutcheon screws in place of standard screws ☐ -STN Satin Nickel finish
Model Numbers	
☐ 9600-PLR Shower Valve Trim with Temptrol Pressure Balancing Shower Valve ☒ 9600-PLR-TRM Shower Valve Trim, Temptrol Pressure Balancing Shower Valve ordered separately ☐ 9600PLRTRMTC Shower Valve Trim with TA-10 flow control spindle and T-12A cap assembly, must order Temptrol valve with Test Cap	
Compliance	
- ASME A112.18.1/CSA B125.1 - Buy American Act (9600-PLR only)	
Warranty	
Limited Lifetime - to the original end purchaser in consumer/residential installations. 5 Years - for industrial/commercial installations. Refer to www.symmons.com/warranty for complete warranty information. Go to www.symmons.com/register to register your Symmons product.	

Note: Append appropriate -suffix to model number.

Dimensions



Measurements	
A	3-5/8", 92 mm
B	Shower Valve Hole Size Min. Ø 3", 76 mm Max. Ø 4", 102 mm
C	3-1/2", 89 mm
D	Rough-in 2-3/8" ± 1/2", 60 mm ± 13 mm
E	Ref. 42", 1067 mm
F	Ø 5-3/4", 146 mm
G	3-3/8", 86 mm

Notes:

- 1) Valve body and piping not included and shown as reference only.
- 2) Plaster shield (p/n T-176) for dry wall, plaster or other type walls 1/2" or greater.
- 3) All dimensions measured from nominal rough-in (see D as reference).
- 4) Dimensions subject to change without notice.



Component Sourcing International



2351 Boston Post Road, Suite 503
Guilford, CT 06437
Tel: 203.453.6000
Fax: 203.453.9757
www.componentsourcing.com

Specification

P/N 1SHO107

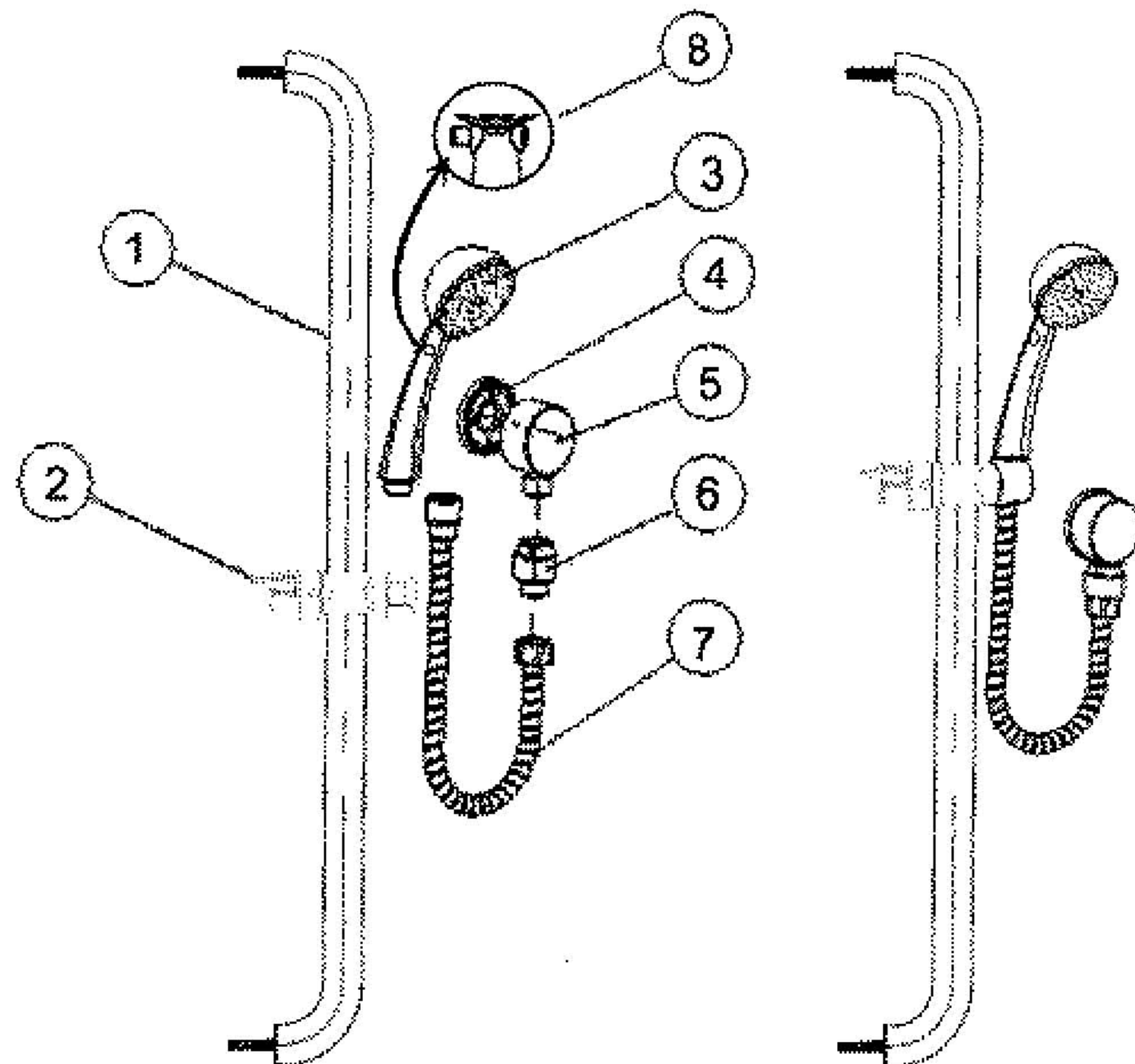
Handheld Shower with Slide Bar Assembly

Handheld Shower with Slide Bar Assembly - Includes:

- 1 - P/N HS2460CP Hand Shower on/off button, chrome finish
- 1 - P/N CSI-41842 Mylar reinforced shower hose 72"L
- 1 - P/N BAR-SB30-TW-125-PO Slide Bar SS, 30"L x 1.25" Dia., polished
- 1 - P/N 4993 Vacuum Breaker, Brass
- 1 - P/N BBS1250X28 Supply Elbow with EPDM gasket
- 1 - P/N GBS125-CR Grab bar slide



1. Slide Bar
2. Slide Bar Bracket
3. Hand Shower
4. Gasket
5. Elbow
6. Vacuum Breaker
7. Hose
8. Pause (Flow rate controlled per on/off button on body)



Detail part drawing

General assembly drawing

P-27



Vault™

32" undermount double-bowl kitchen sink
K-25940

Features

- 36" minimum base cabinet width
- 5-1/2" (140 mm) deep double-equal bowls
- Rear drain placement increases vanity cabinet storage space underneath sink
- Sink drain with strainer sold separately

Material

- Handcrafted from 18-gauge stainless steel

Installation

- Undermount

Included Components

Additional Components:
91915



ADA

Codes/Standards

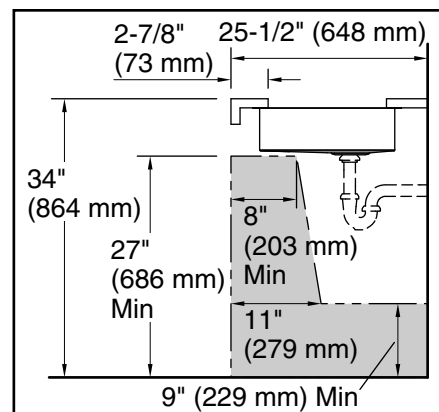
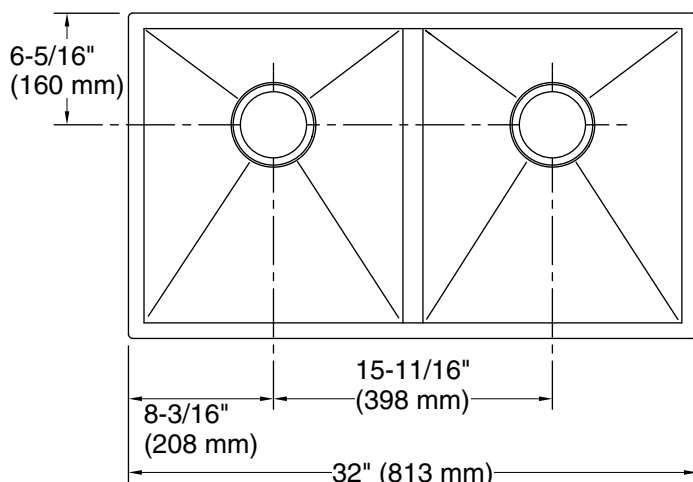
ASME A112.19.3/CSA B45.4

ADA

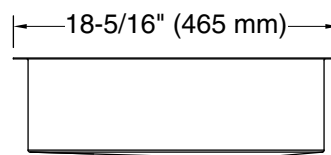
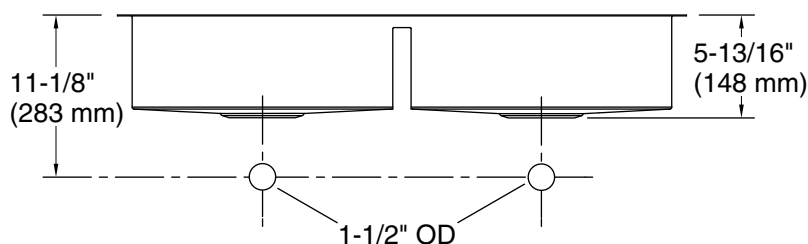
ICC/ANSI A117.1

KOHLER® Stainless Steel Sinks Lifetime Limited Warranty

See website for detailed warranty information.



Recommended ADA Installation



Technical Information

All product dimensions are nominal.

Bowl configuration: Double equal

Installation: Undermount

Min. base cabinet width: 36" (914 mm)

Bowl area (Left): Length: 14-9/16" (370 mm)
Width: 16-9/16" (420 mm)
Bowl depth: 5-1/2" (140 mm)
Water depth: 5-1/2" (140 mm)

Bowl area (Right): Length: 14-9/16" (370 mm)
Width: 16-9/16" (420 mm)
Bowl depth: 5-1/2" (140 mm)

Drain hole: 3-3/4" (94 mm)

Template: Undermount, 1207216-7, required, included

Notes

Install this product according to the installation instructions.

ADA compliant when installed to the specific requirements of these regulations.

Features

- Touchless on/off with a wave of your hand or an object such as a pan
- Response® technology uses a state-of-the-art motion sensor for reliable touchless activation
- LED light indicates Response® is ready to use
- AC-powered operation—no batteries to replace (AC adapter included)
- Unique three-function sprayhead allows you to tackle tasks such as cleaning, rinsing and filling with Sweep® Spray, BerrySoft® spray, and aerated stream
- Sweep® spray features specially angled nozzles that form a wide, powerful blade of water to sweep your dishes and sink clean
- ProMotion® technology's light, quiet braided hose and swiveling ball joint make the pull-down sprayhead easier and more comfortable to use
- High-arch 270° rotating swing spout offers vertical clearance for tall cookware and pitchers
- 10-3/4" (273 mm) swing spout reach
- 1.5 gpm (5.7 lpm) maximum flow rate at 60 psi (4.14 bar)
- Single lever handle makes adjusting water temperature easy.
- Temperature memory allows faucet to be turned on and off at the temperature set during prior usage
- MasterClean™ sprayface features an easy-to-clean surface that withstands mineral buildup
- KOHLER® ceramic disc valves exceed industry longevity standards for a lifetime of durable performance
- DockNetik® secure docking system locks sprayhead into place when not in use

Material

- Premium metal construction for durability and reliability
- KOHLER® finishes resist corrosion and tarnishing

Installation

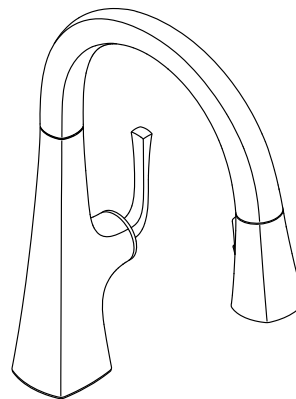
- Deck-mount
- Single-hole installation (three-hole escutcheon sold separately)
- Flexible supply lines simplify installation
- Requires nonswitched undercounter outlet

Adapters, Rough-in and Extension Kits

1012715 Range: 2-1/2" (64 mm) -
4-5/8" (118 mm)

Optional Products/Accessories

K-22071 Three-hole kitchen faucet escutcheon



ADA

CSA B651

Codes/Standards

ASME A112.18.1/CSA B125.1
NSF/ANSI/CAN 61
NSF/ANSI/CAN 372
All applicable US Federal and State material regulations
DOE - Energy Policy Act 1992
California Energy Commission (CEC)
ADA
ICC/ANSI A117.1
CSA B651

KOHLER® Faucet Lifetime Limited Warranty KOHLER® Electronic Faucets, Valves, and Controls Five- Year Limited Warranty

See website for detailed warranty information.

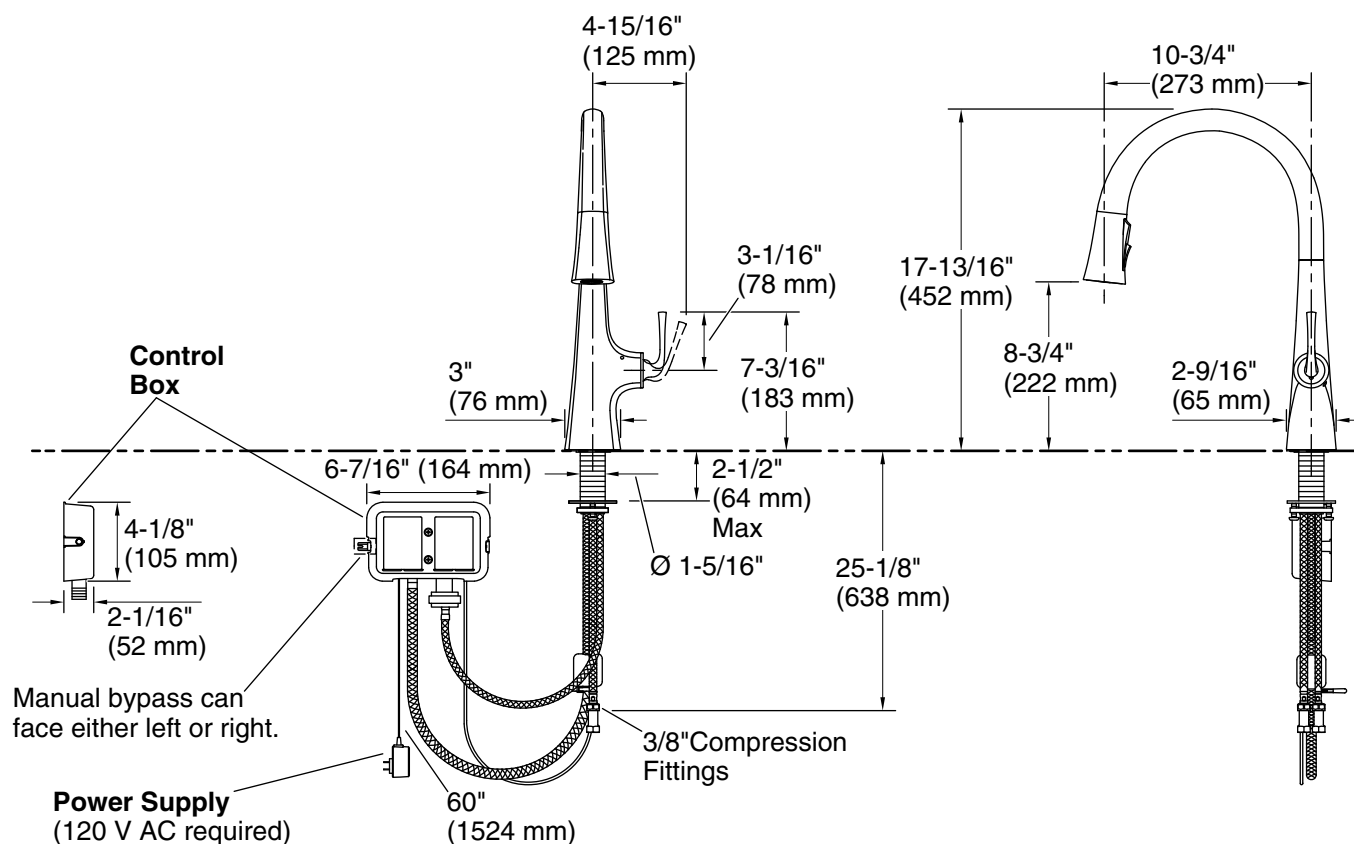
Available Colors/Finishes

Color tiles intended for reference only.

Color Code Description



CP Polished Chrome
2MB Vibrant® Brushed Moderne Brass



Technical Information

All product dimensions are nominal.

Power source: Plug - AC, included

Drain included: No

Spout:

Spout reach: 10-3/4" (273 mm)

Notes

Install this product according to the installation instructions.

ADA complaint for faucet handles only.

ADA, CSA B651 compliant when installed to the specific requirements of these regulations.

Model ST70

Lead-Free Lavatory Tempering Valve With Integral Mounting Feet

APPLICATION:

The Acorn ST70 is an ASSE 1070 certified, lead-free thermostatic tempering valve that protects against dangerously hot water in any commercial sink or lavatory application. This valve can be used with any type of faucet for maximum flexibility and can accommodate a single lavatory or up to 8 hand washing stations having a 0.5 gpm flow rate.

FEATURES:

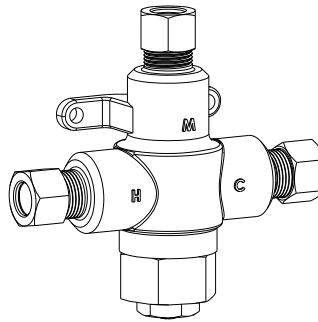
- ✧ Lead-Free certified DZR brass body with corrosion resistant and lead free internal components.
- Valve body available in rough brass or rough chrome plated.
- Integral and cartridge-style checks with accessible screens to prevent backflow and to filter debris from entering the valve.
- Temperature adjustment is made using an Allen wrench. A locknut on the bonnet prevents unauthorized or accidental temperature adjustment.
- Commercial quality paraffin actuator provides repeatable, reliable performance.
- Factory set to 105°F (41°C) and field adjustable.
- Integral mounting Feet

* In accordance with ASSE 1070 as certified by IAPMO
** Under Normal Operating Conditions

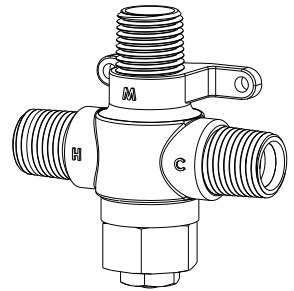
✧ The wetted surface of these valves contacted by consumable water contains less than 0.25% of lead by weight in conformance with national lead free law.

GUIDE SPECIFICATION:

The lavatory tempering valve shall be IAPMO lab certified per ASSE 1070 at 0.25 GPM (1.0 LPM) and CSA standards and shall have a solid brass body with corrosion resistant internal components. It shall include integral checks with screens to prevent backflow and to filter debris from entering the valve. Temperature adjustment shall be made using an allen wrench and a locknut on the bonnet to prevent unauthorized or accidental temperature adjustment. Valve shall provide 4.0 GPM (15 LPM) with 3/8" compression connection and 4.5 GPM (17 LPM) capacity with the 1/2" NPT connection at 45 psi (310 kPa) differential. Temperature range shall be 85°F-115° F (29°C-46° C). Valve shall be Acorn model ST70.



ST70-38



ST70-12



Patent #9,989,017

SPECIFICATIONS:

Valve Specifications:

Maximum Operating Pressure: 125 PSI (861 kPa)

Flow Rate @ 45 psi (310 kpa) differential:

ST70-12: 4.5 GPM (17 LPM)

ST70-38: 4.0 GPM (15 LPM)

Certified Minimum Flow Rate*: 0.25 GPM (1.0 LPM)

Maximum Hot Water Temp: 180°F (82°C)

Minimum Hot Water Supply Temp**: 5°F (3°C)
Above Set Point

Temperature Range*: 85°F-115°F (29°C-46°C)

Connections 1/2" NPT or 3/8" Compression

ST70-12

PRESSURE DROP PSID (kPa)	Cv	5 (34)	10 (69)	15 (103)	20 (138)	30 (207)	45 (310)	60 (414)
FLOW RATE GPM (LPM)	0.7	1.5 (5.7)	2.1 (8)	2.6 (9.8)	3 (11.4)	3.7 (14)	4.5 (17)	5.2 (19.7)

ST70-38

PRESSURE DROP PSID (kPa)	Cv	5 (34)	10 (69)	15 (103)	20 (138)	30 (207)	45 (310)	60 (414)
FLOW RATE GPM (LPM)	0.6	1.3 (5)	1.9 (7.1)	2.3 (8.7)	2.7 (10)	3.3 (12.4)	4 (15)	4.6 (17.5)

Acorn Controls assumes no responsibility for use of void or superseded data. © Copyright Acorn Controls, City of Industry, CA, Division of Acorn Engineering Company, a member of Morris Group International. Please visit www.acorneng.com for most current specifications.

Submission # **ST70**
Revised: 05/30/19

Certifications:



ASSE 1070
CSA B125.3

NSF/ANSI 61
Certified



Est. 1954
ACORN ENGINEERING COMPANY
Manufacturer of Engineered Products

Member of Morris Group International™

ACORN ENGINEERING
COMPANY
P.O. BOX 3527
City of Industry, CA
91744, U.S.A.
Phone 800-488-8999
626-336-4561
Fax 626-961-2200
www.acorneng.com

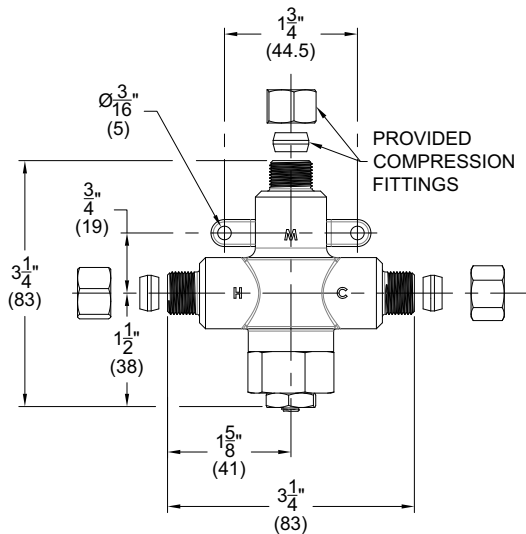
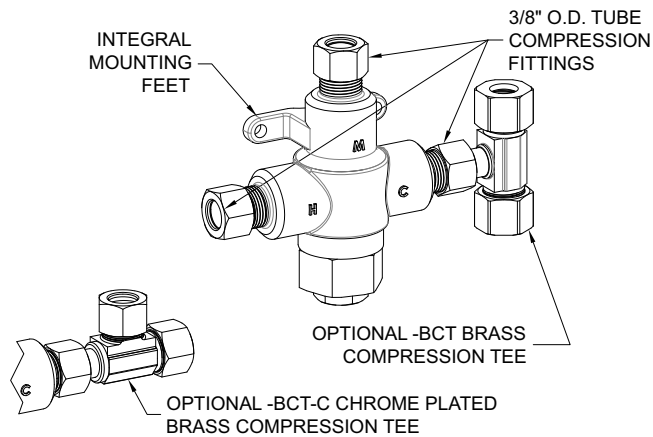
VALVE SELECTION:

- ☐ ST70-12 Brass Valve Body With 1/2" NPT Connections
- ☐ ST70CP-12 Rough Chrome Plated Body Valve With 1/2" NPT Connections
- ☒ ST70-38 Brass Valve Body With 3/8" Compression Connections
- ☐ ST70CP-38 Rough Chrome Plated Valve Body With 3/8" Compression Connections

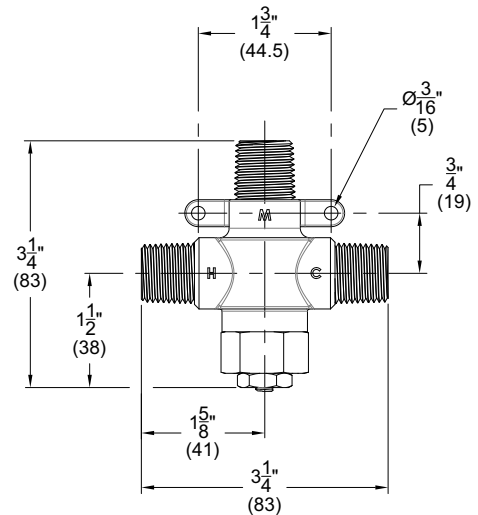
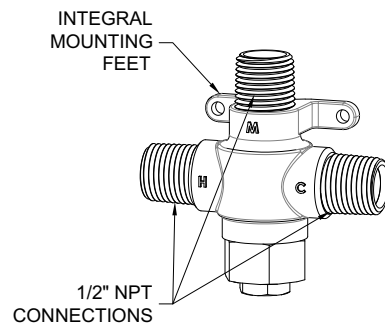
ACCESSORIES:

- ☐ -BCT 3/8" Brass Compression Tee
- ☐ -BCT-C 3/8" Brass Compression Tee, Chrome Plated

TECHNICAL DIMENSIONS:



ST70-38



ST70-12

ST70 Revised: 05/30/19

Acorn Controls warrants that its products are free from defects in material or workmanship under normal use and service for a period of one year from date of shipment. Acorn's liability under this warranty shall be discharged solely by replacement or repair of defective material, provided Acorn is notified in writing within one year from date of shipment, F.O.B. City of Industry, California.

SELECTION SUMMARY
& APPROVAL FOR
MANUFACTURING

Model Number & Options _____ Quantity _____

Company _____

Contact _____ Title _____

Signature (Approval for Manufacturing) _____ Date _____



Est. 1954
ACORN ENGINEERING COMPANY
Manufacturer of Engineered Products

800-488-8999
or 626-336-4561
www.acorneng.com



Vault™
Stainless steel sink rack
K-6641

Features

- Fits in the bowl of the K-3820, K-3838 and K-2590 Vault kitchen sinks
- Helps protect sink surface from daily wear
- Dishwasher-safe
- Rubber feet provide added protection

Material

- Durable stainless steel construction



Codes/Standards

None Applicable

**KOHLER® One-Year Limited
Warranty**

See website for detailed warranty information.

Available Colors/Finishes

Color tiles intended for reference only.

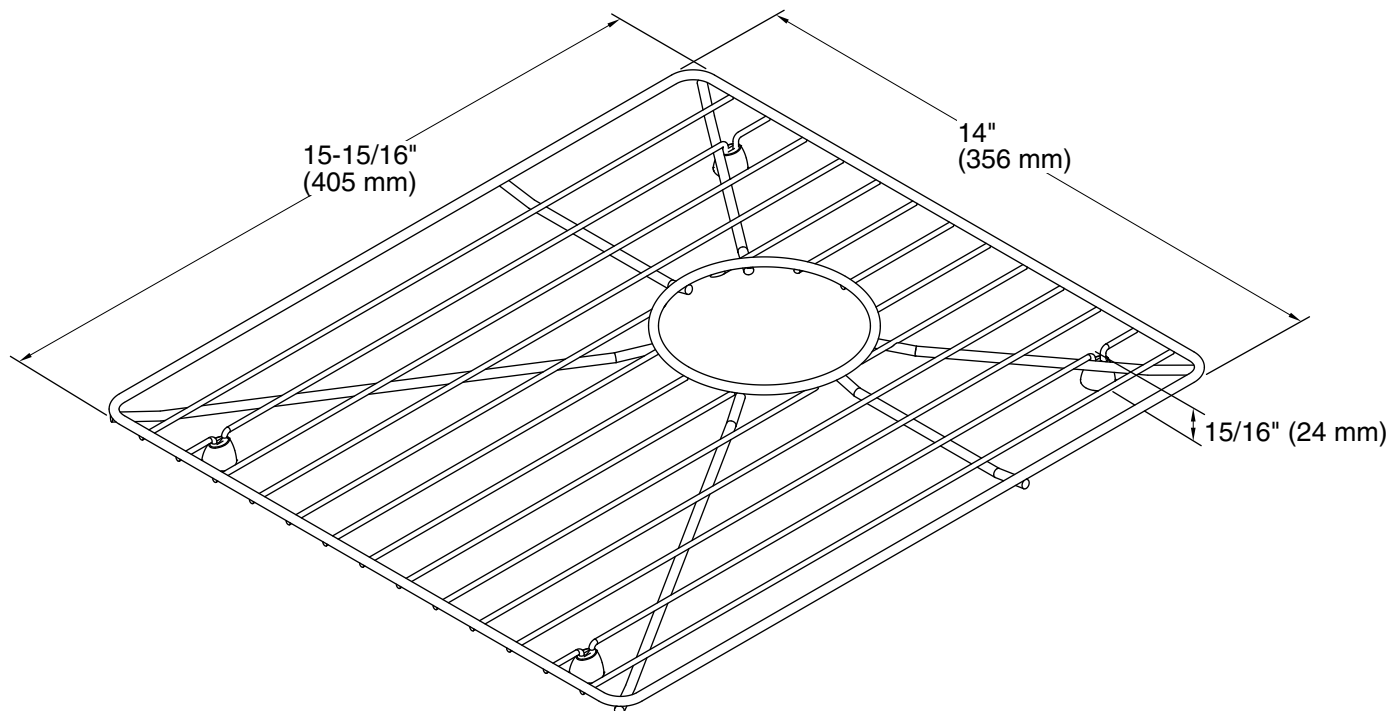
Color	Code	Description
-------	------	-------------



ST	Stainless Steel
----	-----------------



Vault™
Stainless steel sink rack
K-6641



Technical Information

All product dimensions are nominal.

Material: Stainless Steel



McGuire Manufacturing Co., Inc.

60 Grandview Court

Cheshire, Connecticut 06410

(203) 699-1801 Fax (203) 699-1813

customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

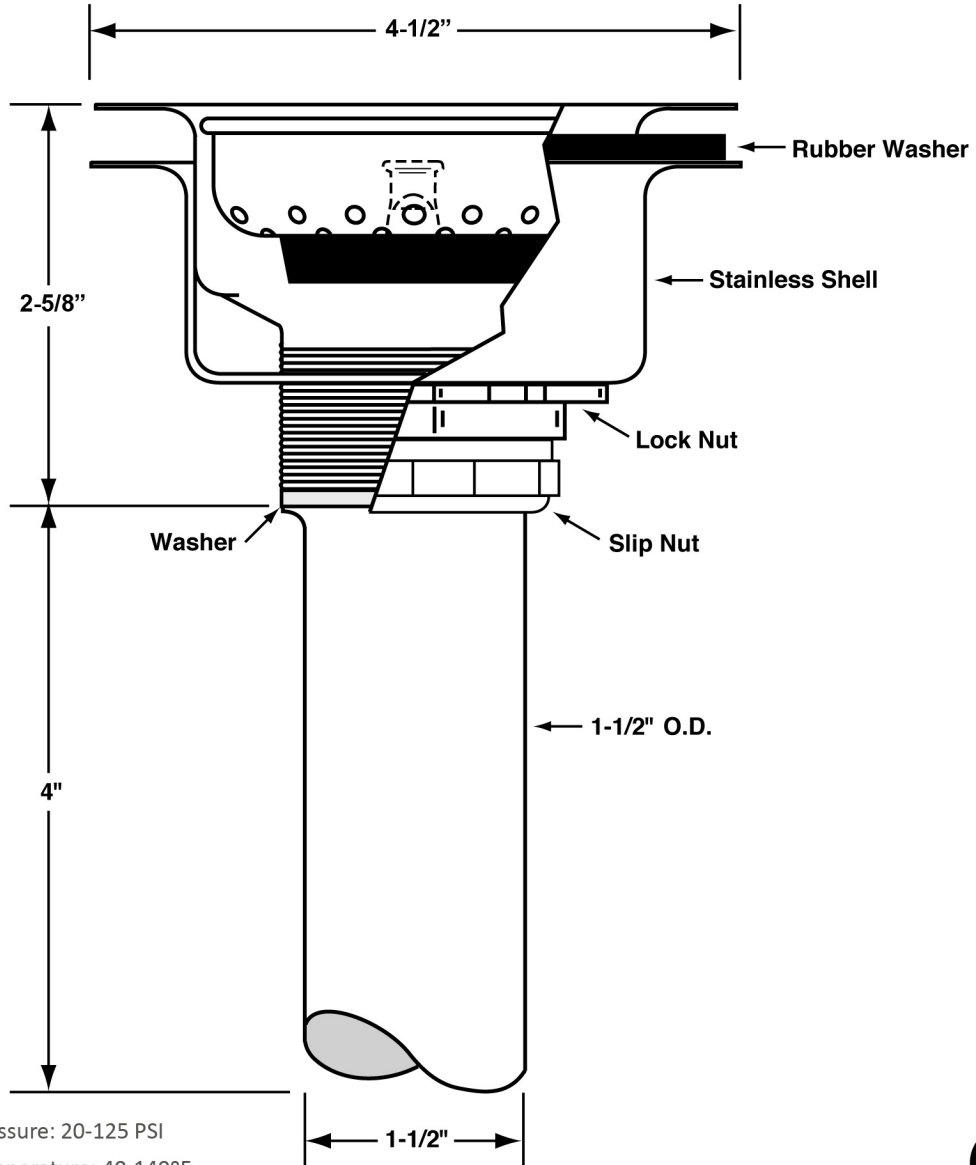
Part No.

151A

Stainless Steel
Basket Strainer

Job Name:

Submittal Number:



- Rated Operating Pressure: 20-125 PSI
- Rated Operating Temperature: 40-140°F
- Note: 180°F max. during temporary high-temperature system flush

See options and accessories section for details on product variations.



ASME A112.18.2/CSA B125.2

Specifications:

Heavy Duty Forged Stainless Steel Basket Strainer with 1-1/2" x 4" seamless brass tailpiece, die cast slip and lock nuts. Basket Strainer shall be in compliance with CSA or other recognized testing authority and bear both manufacturer and testing mark.



WARNING:

This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



McGuire Manufacturing Co., Inc.

60 Grandview Court
Cheshire, Connecticut 06410
(203) 699-1801 Fax (203) 699-1813
customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

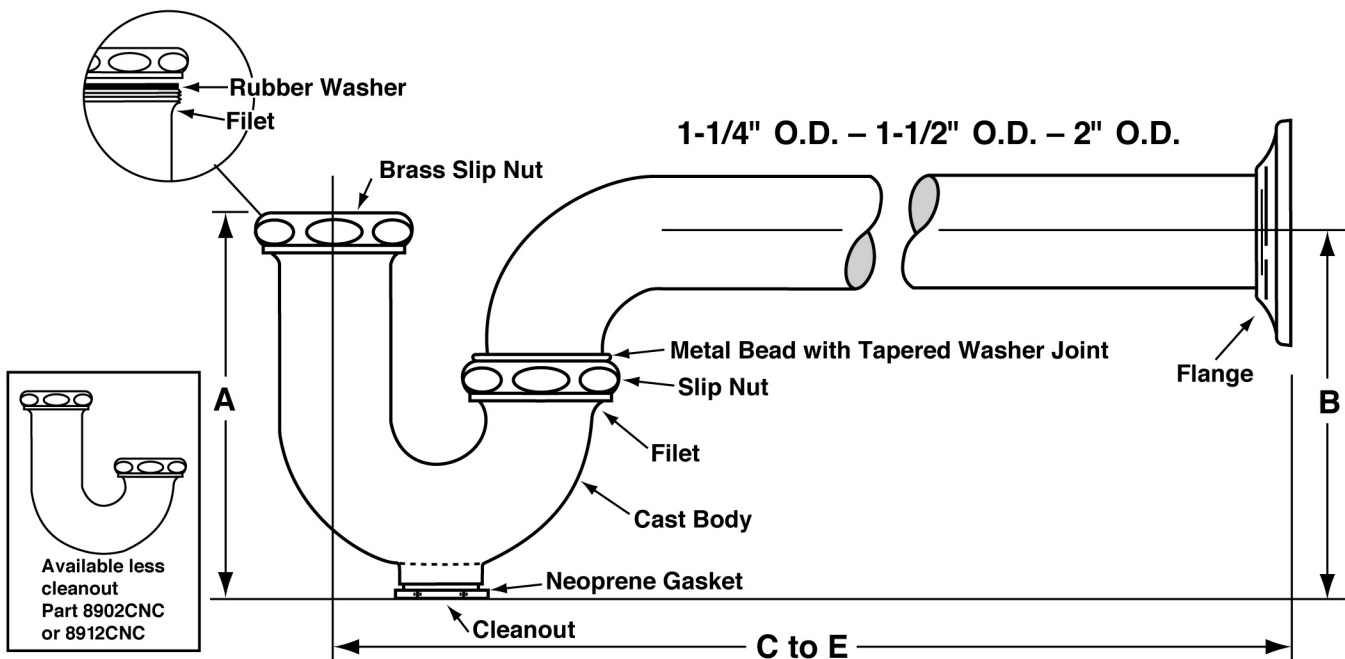
Part No.

8912C

Cast Body P-Trap
With or Without Cleanout

Job Name:

Submittal Number:



PROFESSIONAL LINE

ROUGHING MEASUREMENTS

NO.	TRAP DIMENSIONS		A	B	C to E
	INLET	OUTLET			
8912C	1-1/2"	1-1/2"	5"	5-1/2"	11-1/2"

- Rated Operating Temperature: 40-140°F
- Note: 180°F max. during temporary high-temperature system flush

FED SPEC W.W.P. 541

CAST BRASS P TRAP MINIMUM SEAL 2"

See options and accessories section for details on product variations.

ASME A112.18.2/CSA B125-2



Specifications:

P-Trap shall be chrome plated cast brass body (with, without) cleanout, with 17 gauge seamless tubular wall bend, cast brass slip nuts. Reducing washers shall be used with reducing cast brass nut. With (shallow, deep, bell) (steel, brass) or (forged brass with set screw) flange.

P-Trap shall be McGuire "Classic" Professional Line

Trap shall be certified by CSA or other recognized testing authority. Trap shall bear manufacturer and testing marks.



WARNING:

This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



Project Name: Farm Credit
Project Number: 02-23-2720
Subcontractor: Comfort Systems
Specification: 22 40 00 - Plumbing Fixtures Rev.
Submittal Number: #224000-1

Construction Manager:

NABHOLZ CONSTRUCTION SERVICES

- ☐ Revise & Resubmit
☒ Reviewed As Noted
☐ Reviewed

By: William Ray Date: 08/11/2023

P-7, P-12, P-27, and P-31
revision.

Design Review Comments:



McGuire Manufacturing Co., Inc.

60 Grandview Court

Cheshire, Connecticut 06410

(203) 699-1801 Fax (203) 699-1813

customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

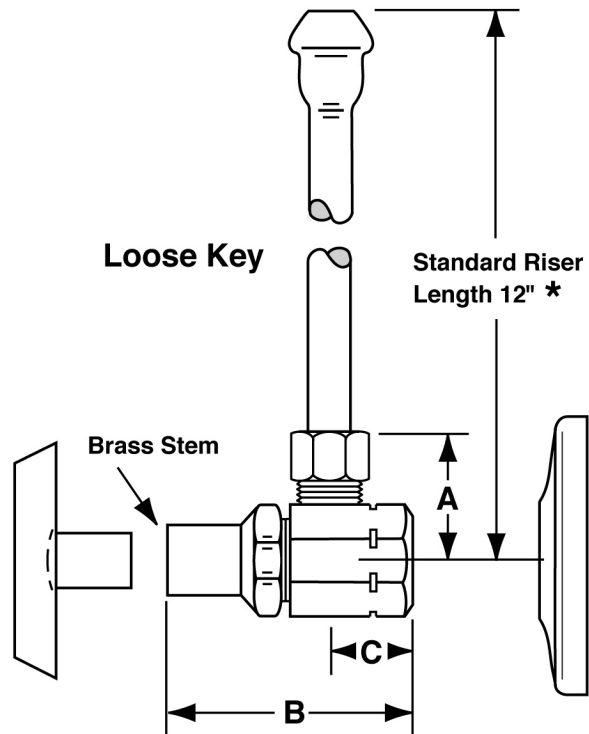
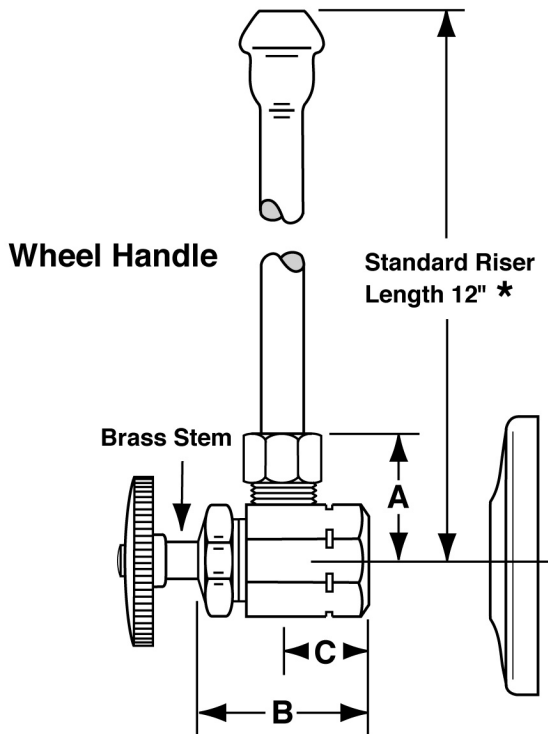
Part No.

LF2165

Lavatory Supply
1/2" I.P.S. x O.D.

Job Name:

Submittal Number:



NO.	DESCRIPTION	ROUGHING MEASUREMENTS		
		A	B	C
LF2165	1/2" I.P.S. x 3/8" O.D.	1-3/16"	1-1/2"	3/4"

LK designates Loose Key

* See options and accessories section for details on product variations.



Specifications:

Supply kit shall include lead free chrome plated brass supply stop valves with full turn brass stem, no plastic, (12, 15, 20) inch chrome plated risers and (shallow, deep, bell) (steel, brass) or (forged brass with set screw) flange. Inlet shall be (3/8, 1/2) inch (IPS, compression). Outlet shall be (3/8, 1/2) inch compression. Supply kit shall be McGuire . Supply kit shall be certified by recognized authority and bear manufacturer and testing mark.



WARNING:

This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

P-31



Undertone™
23" undermount single-bowl kitchen sink
K-3325

Features

- 27" (686 mm) minimum base cabinet width
- Single bowl
- 9-1/2" (241 mm) depth provides generous workspace
- Rear drain placement increases vanity cabinet storage space underneath sink
- Includes installation hardware
- Sink drain with strainer sold separately

Material

- Premium 18-gauge stainless steel

Installation

- Undermount

Included Components

Additional Components:
Hardware



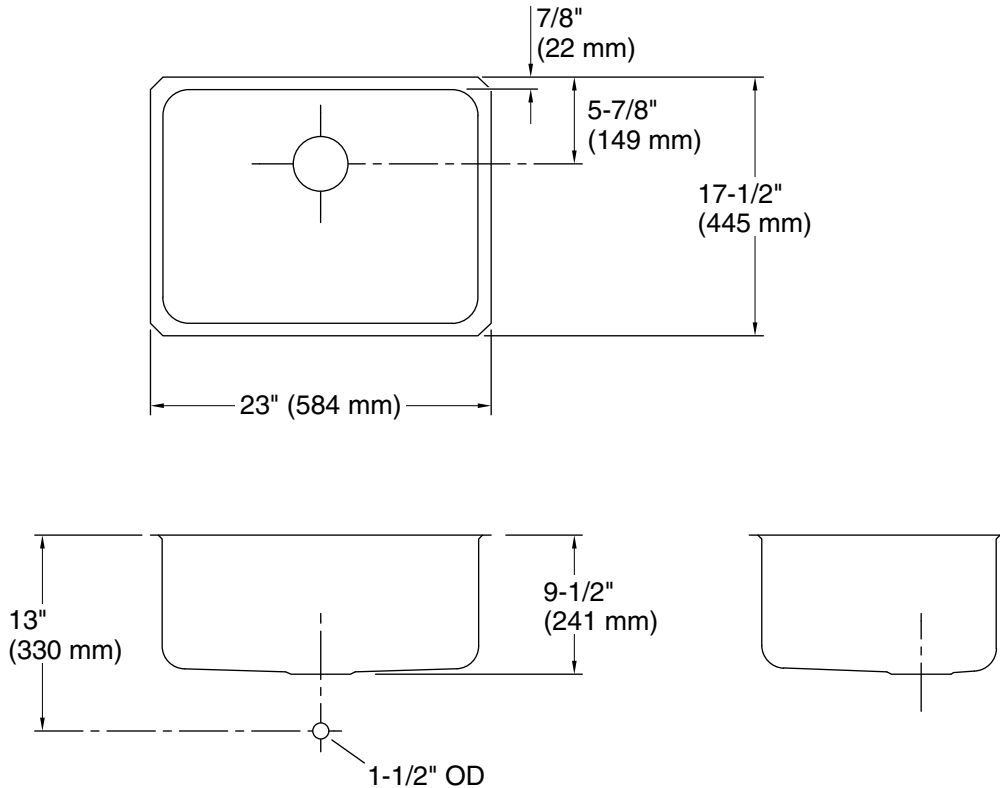
Codes/Standards

ASME A112.19.3/CSA B45.4

KOHLER® Stainless Steel Sinks

Lifetime Limited Warranty

See website for detailed warranty information.



Technical Information

All product dimensions are nominal.

Bowl configuration: Single

Installation: Undermount

Min. base cabinet width: 27" (686 mm)

Bowl area (Center): Length: 21-1/4" (540 mm)
Width: 15-3/4" (400 mm)
Bowl depth: 9-1/2" (241 mm)
Water depth: 9-1/2" (241 mm)

Template: Under-mount, 113193-7, required, included

Notes

Install this product according to the installation instructions.

Features

- Touchless on/off with a wave of your hand or an object such as a pan
- Response® technology uses a state-of-the-art motion sensor for reliable touchless activation
- LED light indicates Response® is ready to use
- AC-powered operation—no batteries to replace (AC adapter included)
- Unique three-function sprayhead allows you to tackle tasks such as cleaning, rinsing and filling with Sweep® Spray, BerrySoft® spray, and aerated stream
- Sweep® spray features specially angled nozzles that form a wide, powerful blade of water to sweep your dishes and sink clean
- ProMotion® technology's light, quiet braided hose and swiveling ball joint make the pull-down sprayhead easier and more comfortable to use
- High-arch 270° rotating swing spout offers vertical clearance for tall cookware and pitchers
- 10-3/4" (273 mm) swing spout reach
- 1.5 gpm (5.7 lpm) maximum flow rate at 60 psi (4.14 bar)
- Single lever handle makes adjusting water temperature easy.
- Temperature memory allows faucet to be turned on and off at the temperature set during prior usage
- MasterClean™ sprayface features an easy-to-clean surface that withstands mineral buildup
- KOHLER® ceramic disc valves exceed industry longevity standards for a lifetime of durable performance
- DockNetik® secure docking system locks sprayhead into place when not in use

Material

- Premium metal construction for durability and reliability
- KOHLER® finishes resist corrosion and tarnishing

Installation

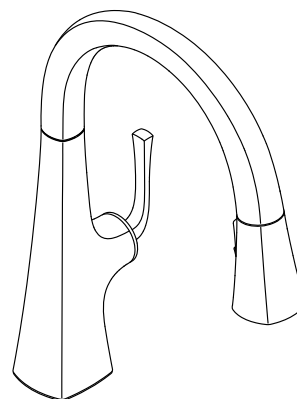
- Deck-mount
- Single-hole installation (three-hole escutcheon sold separately)
- Flexible supply lines simplify installation
- Requires nonswitched undercounter outlet

Adapters, Rough-in and Extension Kits

1012715 Range: 2-1/2" (64 mm) -
4-5/8" (118 mm)

Optional Products/Accessories

K-22071 Three-hole kitchen faucet escutcheon



ADA

CSA B651

Codes/Standards

ASME A112.18.1/CSA B125.1
NSF/ANSI/CAN 61
NSF/ANSI/CAN 372
All applicable US Federal and State material regulations
DOE - Energy Policy Act 1992
California Energy Commission (CEC)
ADA
ICC/ANSI A117.1
CSA B651

KOHLER® Faucet Lifetime Limited Warranty KOHLER® Electronic Faucets, Valves, and Controls Five- Year Limited Warranty

See website for detailed warranty information.

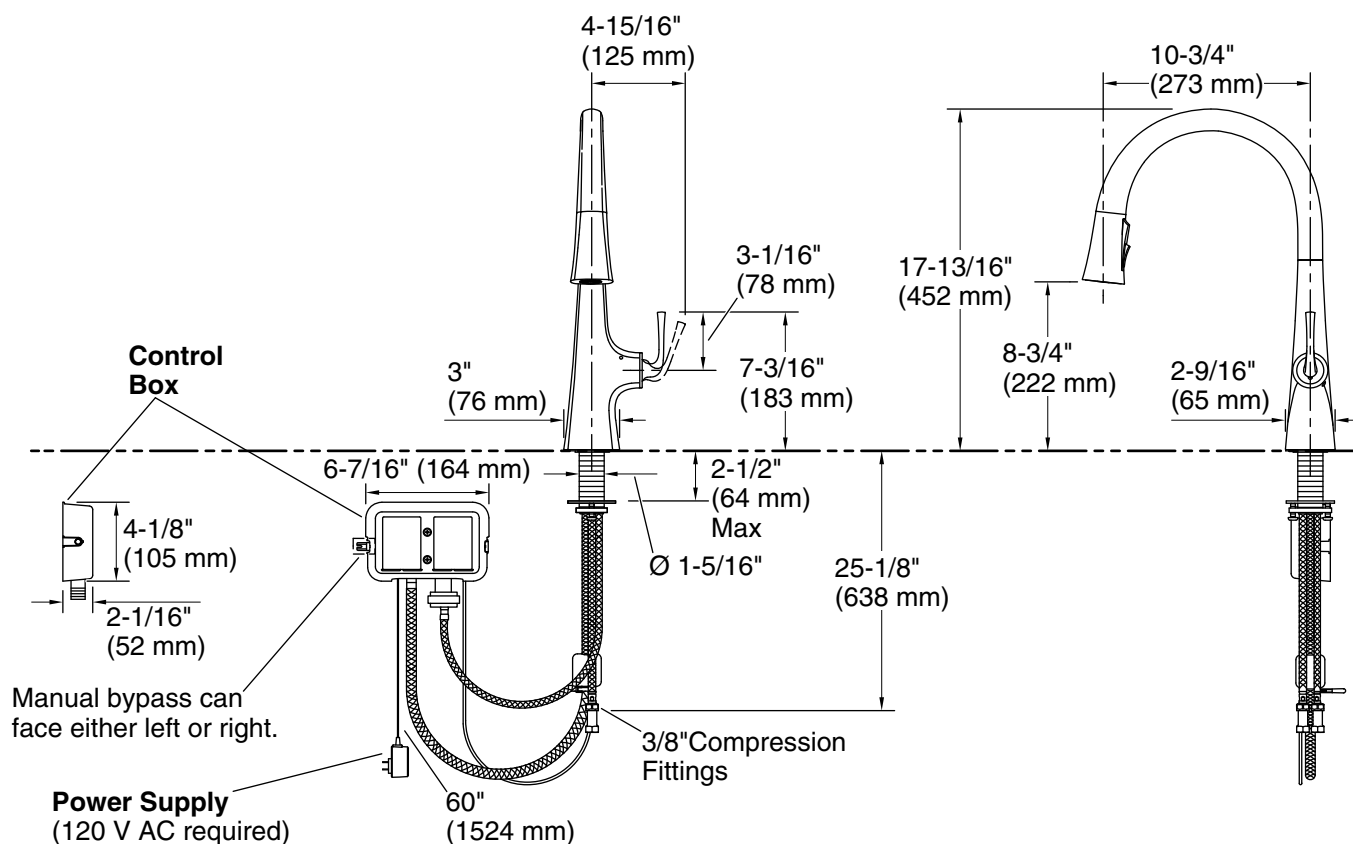
Available Colors/Finishes

Color tiles intended for reference only.

Color Code Description



CP Polished Chrome
2MB Vibrant® Brushed Moderne Brass



Technical Information

All product dimensions are nominal.

Power source: Plug - AC, included

Drain included: No

Spout:

Spout reach: 10-3/4" (273 mm)

Notes

Install this product according to the installation instructions.

ADA complaint for faucet handles only.

ADA, CSA B651 compliant when installed to the specific requirements of these regulations.

Model ST70

Lead-Free Lavatory Tempering Valve With Integral Mounting Feet

APPLICATION:

The Acorn ST70 is an ASSE 1070 certified, lead-free thermostatic tempering valve that protects against dangerously hot water in any commercial sink or lavatory application. This valve can be used with any type of faucet for maximum flexibility and can accommodate a single lavatory or up to 8 hand washing stations having a 0.5 gpm flow rate.

FEATURES:

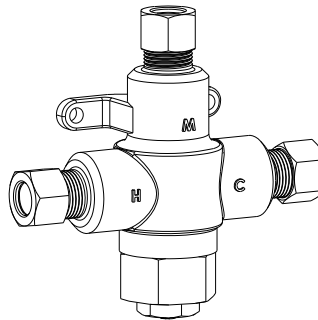
- ✧ Lead-Free certified DZR brass body with corrosion resistant and lead free internal components.
- Valve body available in rough brass or rough chrome plated.
- Integral and cartridge-style checks with accessible screens to prevent backflow and to filter debris from entering the valve.
- Temperature adjustment is made using an Allen wrench. A locknut on the bonnet prevents unauthorized or accidental temperature adjustment.
- Commercial quality paraffin actuator provides repeatable, reliable performance.
- Factory set to 105°F (41°C) and field adjustable.
- Integral mounting Feet

* In accordance with ASSE 1070 as certified by IAPMO
** Under Normal Operating Conditions

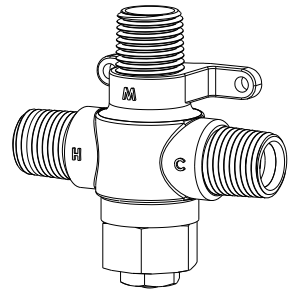
✧ The wetted surface of these valves contacted by consumable water contains less than 0.25% of lead by weight in conformance with national lead free law.

GUIDE SPECIFICATION:

The lavatory tempering valve shall be IAPMO lab certified per ASSE 1070 at 0.25 GPM (1.0 LPM) and CSA standards and shall have a solid brass body with corrosion resistant internal components. It shall include integral checks with screens to prevent backflow and to filter debris from entering the valve. Temperature adjustment shall be made using an allen wrench and a locknut on the bonnet to prevent unauthorized or accidental temperature adjustment. Valve shall provide 4.0 GPM (15 LPM) with 3/8" compression connection and 4.5 GPM (17 LPM) capacity with the 1/2" NPT connection at 45 psi (310 kPa) differential. Temperature range shall be 85°F-115° F (29°C-46° C). Valve shall be Acorn model ST70.



ST70-38



ST70-12



Patent #9,989,017

SPECIFICATIONS:

Valve Specifications:

Maximum Operating Pressure: 125 PSI (861 kPa)

Flow Rate @ 45 psi (310 kpa) differential:

ST70-12: 4.5 GPM (17 LPM)

ST70-38: 4.0 GPM (15 LPM)

Certified Minimum Flow Rate*: 0.25 GPM (1.0 LPM)

Maximum Hot Water Temp: 180°F (82°C)

Minimum Hot Water Supply Temp**: 5°F (3°C)
Above Set Point

Temperature Range*: 85°F-115°F (29°C-46°C)

Connections 1/2" NPT or 3/8" Compression

ST70-12

PRESSURE DROP PSID (kPa)	Cv	5 (34)	10 (69)	15 (103)	20 (138)	30 (207)	45 (310)	60 (414)
FLOW RATE GPM (LPM)	0.7	1.5 (5.7)	2.1 (8)	2.6 (9.8)	3 (11.4)	3.7 (14)	4.5 (17)	5.2 (19.7)

ST70-38

PRESSURE DROP PSID (kPa)	Cv	5 (34)	10 (69)	15 (103)	20 (138)	30 (207)	45 (310)	60 (414)
FLOW RATE GPM (LPM)	0.6	1.3 (5)	1.9 (7.1)	2.3 (8.7)	2.7 (10)	3.3 (12.4)	4 (15)	4.6 (17.5)

Acorn Controls assumes no responsibility for use of void or superseded data. © Copyright Acorn Controls, City of Industry, CA, Division of Acorn Engineering Company, a member of Morris Group International. Please visit www.acorneng.com for most current specifications.

Submission # **ST70**
Revised: 05/30/19

Certifications:



ASSE 1070
CSA B125.3

NSF/ANSI 61
Certified



Est. 1954
ACORN ENGINEERING COMPANY
Manufacturer of Engineered Products

Member of Morris Group International™

ACORN ENGINEERING
COMPANY
P.O. BOX 3527
City of Industry, CA
91744, U.S.A.
Phone 800-488-8999
626-336-4561
Fax 626-961-2200
www.acorneng.com

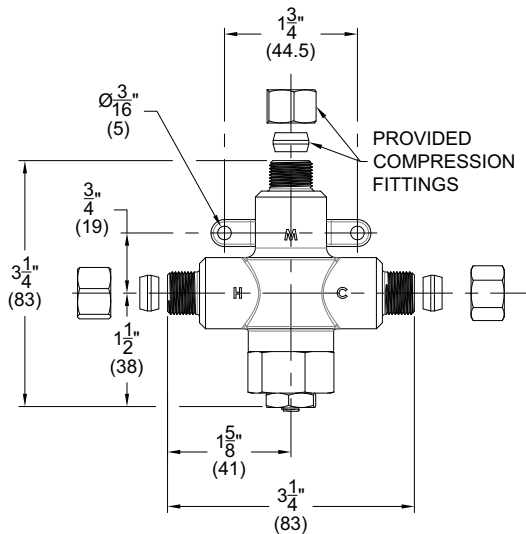
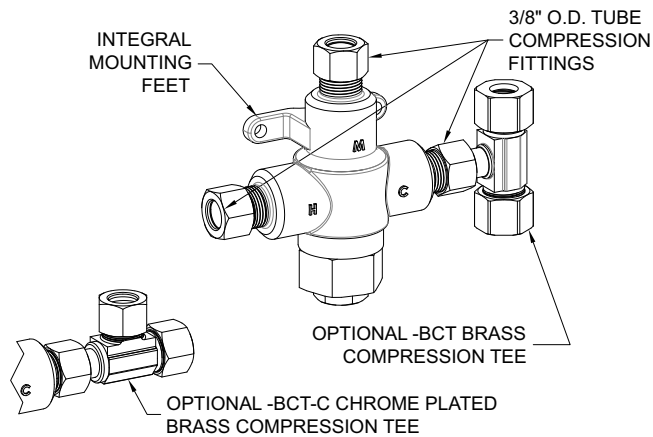
VALVE SELECTION:

- ☐ ST70-12 Brass Valve Body With 1/2" NPT Connections
- ☐ ST70CP-12 Rough Chrome Plated Body Valve With 1/2" NPT Connections
- ☒ ST70-38 Brass Valve Body With 3/8" Compression Connections
- ☐ ST70CP-38 Rough Chrome Plated Valve Body With 3/8" Compression Connections

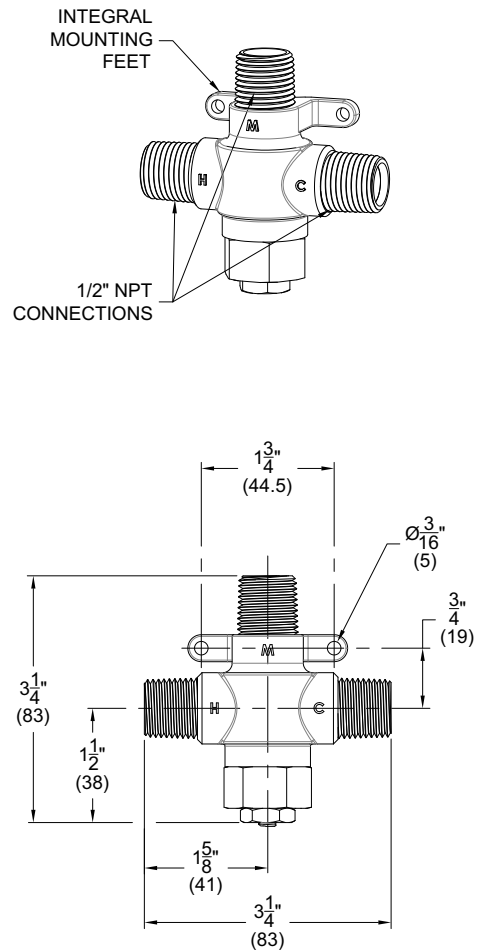
TECHNICAL DIMENSIONS:

ACCESSORIES:

- ☐ -BCT 3/8" Brass Compression Tee
- ☐ -BCT-C 3/8" Brass Compression Tee, Chrome Plated



ST70-38



ST70-12

ST70 Revised: 05/30/19

Acorn Controls warrants that its products are free from defects in material or workmanship under normal use and service for a period of one year from date of shipment. Acorn's liability under this warranty shall be discharged solely by replacement or repair of defective material, provided Acorn is notified in writing within one year from date of shipment, F.O.B. City of Industry, California.

SELECTION SUMMARY
& APPROVAL FOR
MANUFACTURING

Model Number & Options _____ Quantity _____

Company _____

Contact _____ Title _____

Signature (Approval for Manufacturing) _____ Date _____



Est. 1954
ACORN ENGINEERING COMPANY
Manufacturer of Engineered Products

800-488-8999
or 626-336-4561
www.acorneng.com



McGuire Manufacturing Co., Inc.

60 Grandview Court

Cheshire, Connecticut 06410

(203) 699-1801 Fax (203) 699-1813

customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

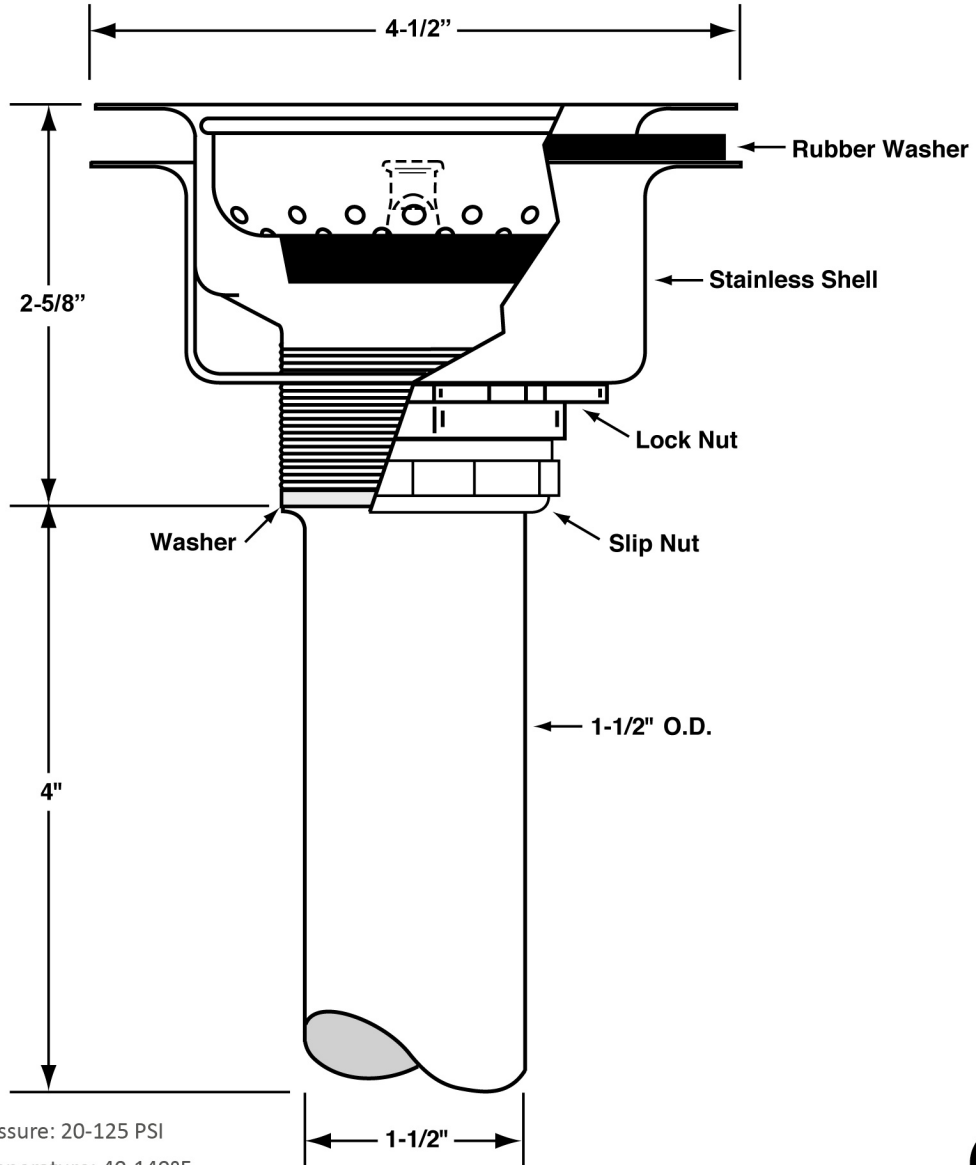
Part No.

151A

Stainless Steel
Basket Strainer

Job Name:

Submittal Number:



- Rated Operating Pressure: 20-125 PSI
- Rated Operating Temperature: 40-140°F
- Note: 180°F max. during temporary high-temperature system flush

See options and accessories section for details on product variations.



ASME A112.18.2/CSA B125.2

Specifications:

Heavy Duty Forged Stainless Steel Basket Strainer with 1-1/2" x 4" seamless brass tailpiece, die cast slip and lock nuts. Basket Strainer shall be in compliance with CSA or other recognized testing authority and bear both manufacturer and testing mark.



WARNING:

This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



McGuire Manufacturing Co., Inc.

60 Grandview Court

Cheshire, Connecticut 06410

(203) 699-1801 Fax (203) 699-1813

customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

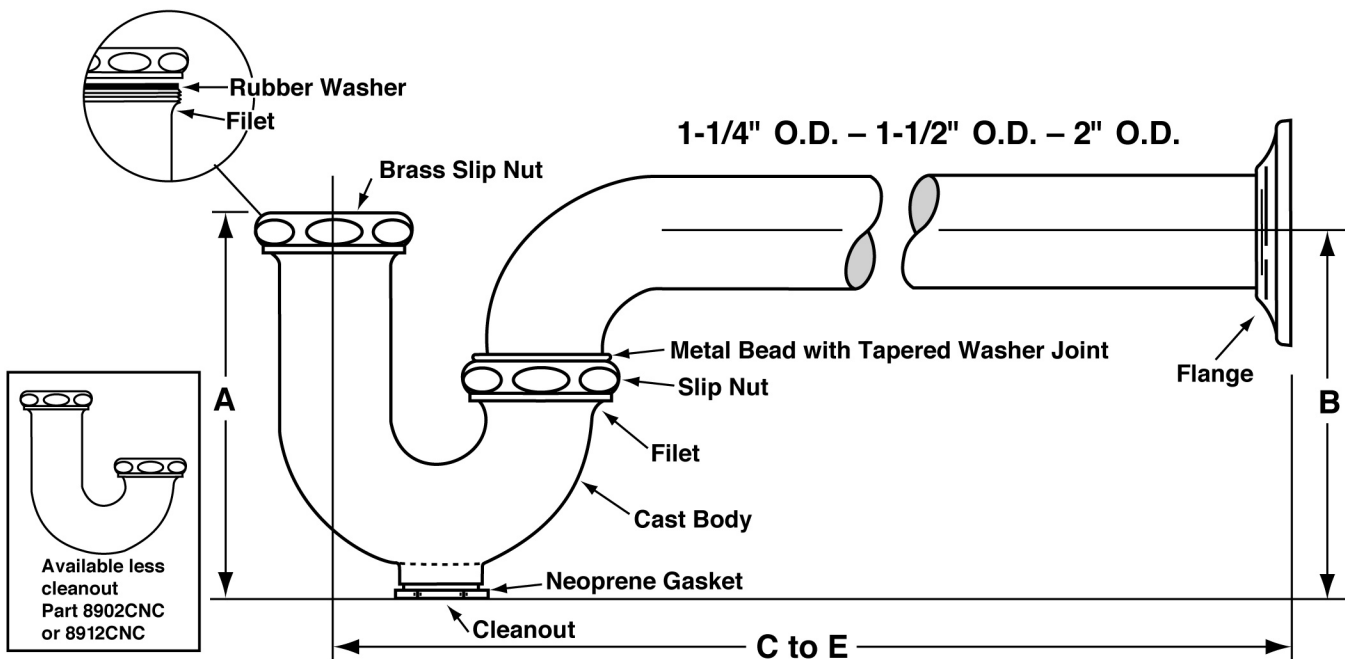
Part No.

8912C

Cast Body P-Trap
With or Without Cleanout

Job Name:

Submittal Number:



PROFESSIONAL LINE

ROUGHING MEASUREMENTS

NO.	TRAP DIMENSIONS		A	B	C to E
	INLET	OUTLET			
8912C	1-1/2"	1-1/2"	5"	5-1/2"	11-1/2"

- Rated Operating Temperature: 40-140°F
- Note: 180°F max. during temporary high-temperature system flush

FED SPEC W.W.P. 541

CAST BRASS P TRAP MINIMUM SEAL 2"

See options and accessories section for details on product variations.

ASME A112.18.2/CSA B125-2



Specifications:

P-Trap shall be chrome plated cast brass body (with, without) cleanout, with 17 gauge seamless tubular wall bend, cast brass slip nuts. Reducing washers shall be used with reducing cast brass nut. With (shallow, deep, bell) (steel, brass) or (forged brass with set screw) flange.

P-Trap shall be McGuire "Classic" Professional Line

Trap shall be certified by CSA or other recognized testing authority. Trap shall bear manufacturer and testing marks.



WARNING:

This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



McGuire Manufacturing Co., Inc.

60 Grandview Court

Cheshire, Connecticut 06410

(203) 699-1801 Fax (203) 699-1813

customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

Part No.

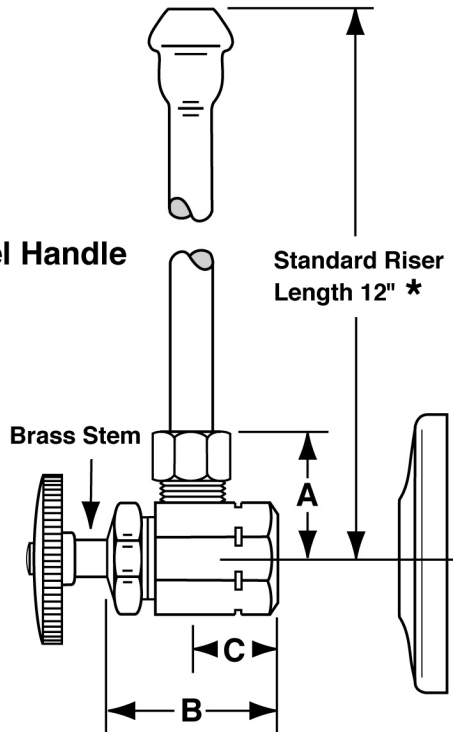
LF2165

Lavatory Supply
1/2" I.P.S. x O.D.

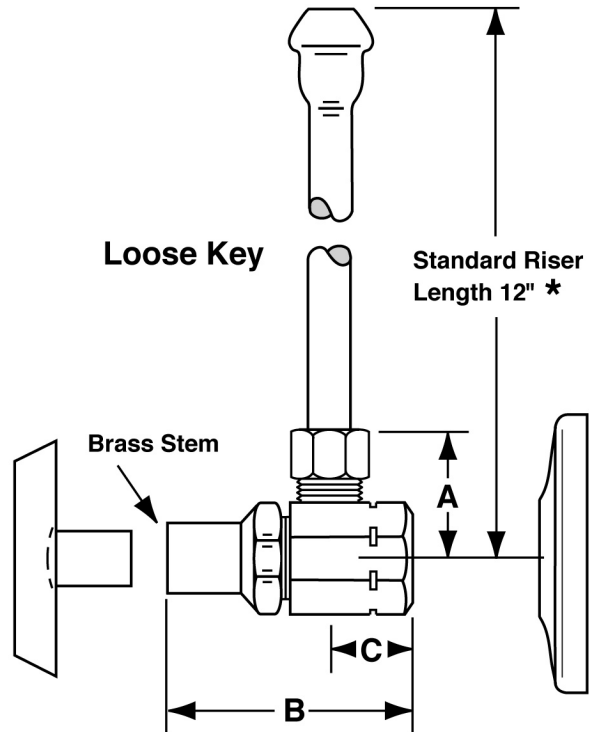
Job Name:

Submittal Number:

Wheel Handle



Loose Key



NO.	DESCRIPTION	ROUGHING MEASUREMENTS		
		A	B	C
LF2165	1/2" I.P.S. x 3/8" O.D.	1-3/16"	1-1/2"	3/4"

LK designates Loose Key

* See options and accessories section for details on product variations.



Specifications:

Supply kit shall include lead free chrome plated brass supply stop valves with full turn brass stem, no plastic, (12, 15, 20) inch chrome plated risers and (shallow, deep, bell) (steel, brass) or (forged brass with set screw) flange. Inlet shall be (3/8, 1/2) inch (IPS, compression). Outlet shall be (3/8, 1/2) inch compression. Supply kit shall be McGuire . Supply kit shall be certified by recognized authority and bear manufacturer and testing mark.



WARNING:

This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

P-32

PRODUCT SPECIFICATIONS

Elkay ezH2O[®] Bottle Filling Station with Single ADA Cooler Non-Filtered Refrigerated Light Gray. Chilling Capacity of 8.0 GPH (gallons per hour) of 50° F drinking water, based on 80° F inlet water and 90° F ambient, per ASHRAE 18 testing. Features shall include Antimicrobial, Green Ticker[™], Hands Free, Laminar Flow, Real Drain. Furnished with Flexi-Guard[®] Safety Bubbler. Electronic Bottle Filler Sensor with Electronic Front and Side Bubbler Pushbar activation. Product shall be Wall Mount (On Wall), for Indoor applications, serving 1 station(s). Unit shall be certified to UL 399 and CAN/CSA C22.2 No. 120.

Special Features:	Antimicrobial, Green Ticker [™] , Hands Free, Laminar Flow, Real Drain
Finish:	Light Gray Granite
Power:	115V/60Hz
Bubbler Style:	Flexi-Guard [®] Safety Bubbler
Activation by:	Electronic Bottle Filler Sensor with Electronic Front and Side Bubbler Pushbar
Mounting Type:	Wall Mount (On Wall)
Chilling Capacity*:	8.0 GPH
Full Load Amps	6
Rated Watts:	370
Dimensions (L x W x H):	18-3/8" x 19" x 39-1/16"
Approx. Shipping Weight:	82 lbs.
Installation Location:	Indoor
No. of Stations Served:	1
*Based on 80° F inlet water & 90° F ambient air temp for 50° F chilled drinking water.	

Special Note: Non-filtered model

- Green Ticker: Informs user of number of 20 oz. plastic water bottles saved from waste.
- Laminar flow provides clean fill with minimal splash.
- Silver Ion Antimicrobial protection on key plastic components to inhibit the growth of mold and mildew.
- Real Drain System eliminates standing water.

COOLING SYSTEM

- Compressor: Hermetically-sealed, reciprocating type, single phase. Sealed-in lifetime lubrication.
- Condenser: Fan cooled, copper tube with aluminum fins. Fan motor is permanently lubricated.
- Cooling Unit: Combination tube-tank type. Continuous copper tubing with is fully insulated with EPS foam that meets UL requirements for self-extinguishing material.
- Refrigerant Control: Refrigerant R-134a is controlled by accurately calibrated capillary tube.
- Temperature Control: Easily accessible enclosed adjustable thermostat is factory preset. Requires no

PART: _____ QTY: _____

PROJECT: _____

CONTACT: _____

DATE: _____

NOTES: _____

APPROVAL: _____



Included with Product: Water Cooler (EZS8WSL), Bottle Filler (EZWSR)

▼ Ships in multiple boxes.

A Century of Tradition and Quality.

For more than 100 years, Elkay has been making innovative products and providing exceptional customer care. We take pride in offering plumbing products that make life easier, inspire change and leave the world a better place.

PRODUCT COMPLIANCE

ADA & ICC A117.1

ASME A112.19.3/CSA B45.4

Buy American Act

CAN/CSA C22.2 No. 120

GreenSpec[®]

NSF/ANSI 61 & 372 (lead free)

UL 399



[Installation Instructions \(PDF\) - 1000002207](#)

5 Year Limited Warranty on the refrigeration system of the unit. Electrical components and water system are warranted for 12 months from date of installation. **Warranty pertains to drinking water applications only. Non-drinking water applications are not covered under warranty.**

[Warranty \(PDF\)](#)

In keeping with our policy of continuing product improvement, Elkay reserves the right to change product specifications without notice. Please visit elkay.com for the most current version of Elkay product specification sheets. This specification describes an Elkay product with design, quality, and functional benefits to the user. When making a comparison of other producers' offerings, be certain these features are not overlooked.

Model EZS8WSLK

Optional Accessories		
EWF3000	Elkay Universal Filtration Kit (3000-Gallon) Spec Sheet (PDF)	
LKAPREZL	Elkay Cane Apron for EZ Gray Spec Sheet (PDF)	
MLP100	In-wall Carrier for Single-station On-wall Bottle Fillers Coolers & Fountains Spec Sheet (PDF)	

© 2023 Page 2
EZS8WSLK spec.pdf

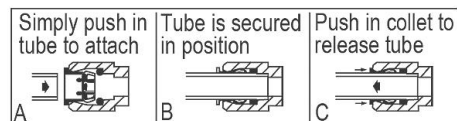
IMPORTANT! INSTALLER PLEASE NOTE :

This water cooler has been designed and built to provide water to the user which has not been altered by materials in the cooler waterways. The grounding of electrical equipment such as telephone, computer, etc. to water lines is a common procedure. The grounding may be in the building but may also occur away from the building. This grounding can cause electrical feedback into a water cooler creating an electrolysis which creates a metallic taste or causes an increase in the metal content of the water. This condition is avoidable by installing the cooler using the proper materials as shown below.

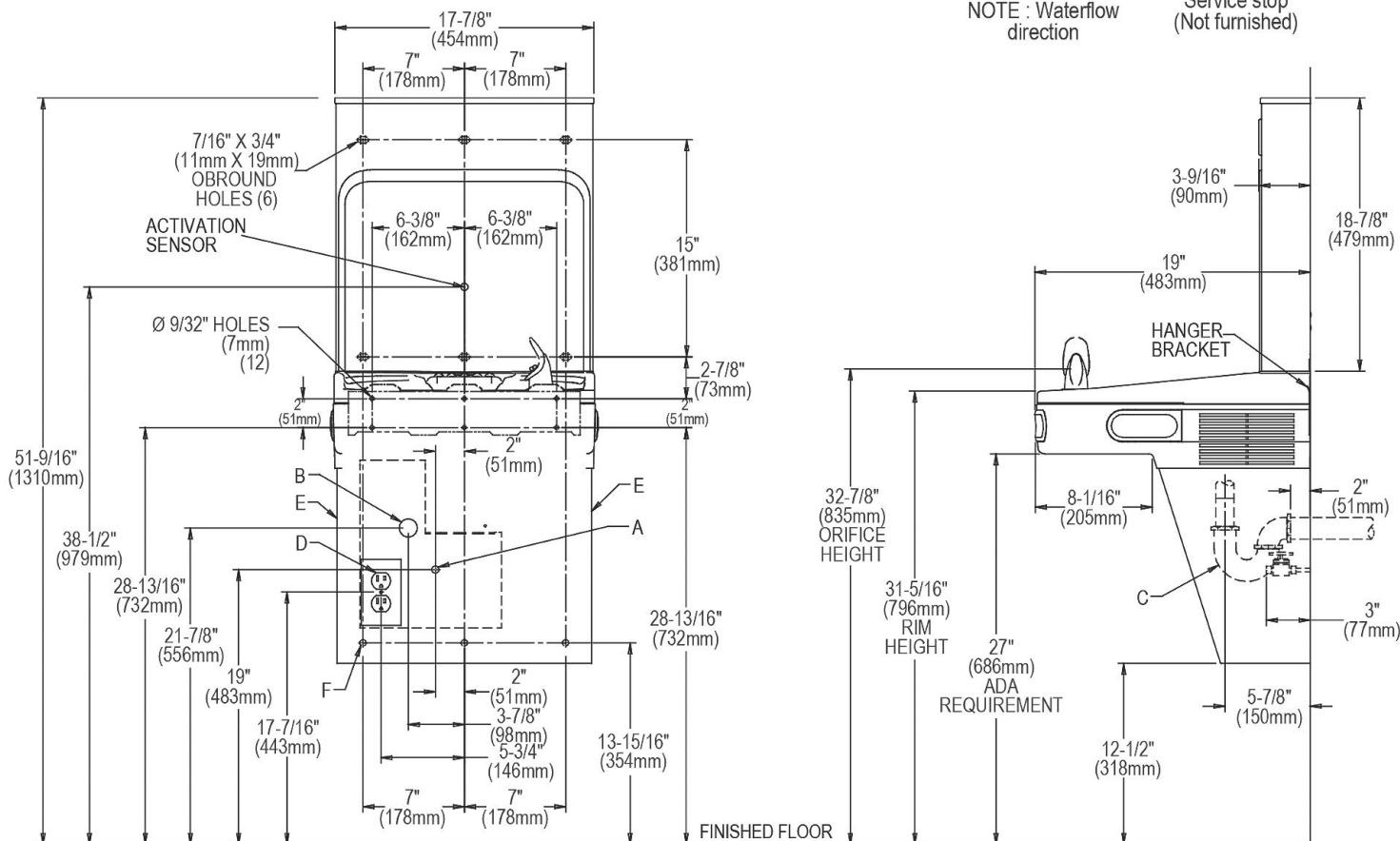
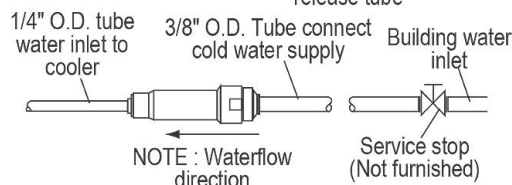
NOTICE

This water cooler must be connected to the water supply using a dielectric coupling. The cooler is furnished with a non-metallic strainer which meets this requirement. The drain trap which is provided by the installer should also be plastic to completely isolate the cooler from the building plumbing system. Bottle filler unit on bracket attached to wall by 6 holes (as shown). Water and electrical will connect through pre-punched hole in basin. These products are designed to operate on 20 psi to 105 psi supply line pressure.

OPERATION OF QUICK CONNECT FITTINGS



Pushing tube in before pulling it out helps to release tube



LEGEND:

REDUCE HEIGHT BY 3 INCHES FOR INSTALLATION OF CHILDRENS ADA COOLER

- A = Recommended Water Supply location. Shut-off Valve (not furnished) to accept 3/8\" O.D. unplated copper tube. Up to 3\" (76mm) maximum out from wall.
- B = Recommended Waste Outlet location. To accommodate 1-1/4\" nominal drain. Drain stub 2\" (51mm) out from wall.
- C = 1-1/4\" Trap (not furnished).
- D = Electrical Supply (3) Wire Recessed Box Duplex Outlet.
- E = Insure proper ventilation by maintaining 6\" (152mm) minimum clearance from cabinet
- F = 7/16\" (11mm) Bolt Holes for fastening to wall.

Note : New Installations Must Use Ground Fault Circuit Interrupter (GFCI). It is highly recommended that the circuit be dedicated and the load protection be sized for 20 amps.

In keeping with our policy of continuing product improvement, Elkay reserves the right to change product specifications without notice. Please visit elkay.com for the most current version of Elkay product specification sheets. This specification describes an Elkay product with design, quality, and functional benefits to the user. When making a comparison of other producers' offerings, be certain these features are not overlooked.



McGuire Manufacturing Co., Inc.

60 Grandview Court

Cheshire, Connecticut 06410

(203) 699-1801 Fax (203) 699-1813

customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

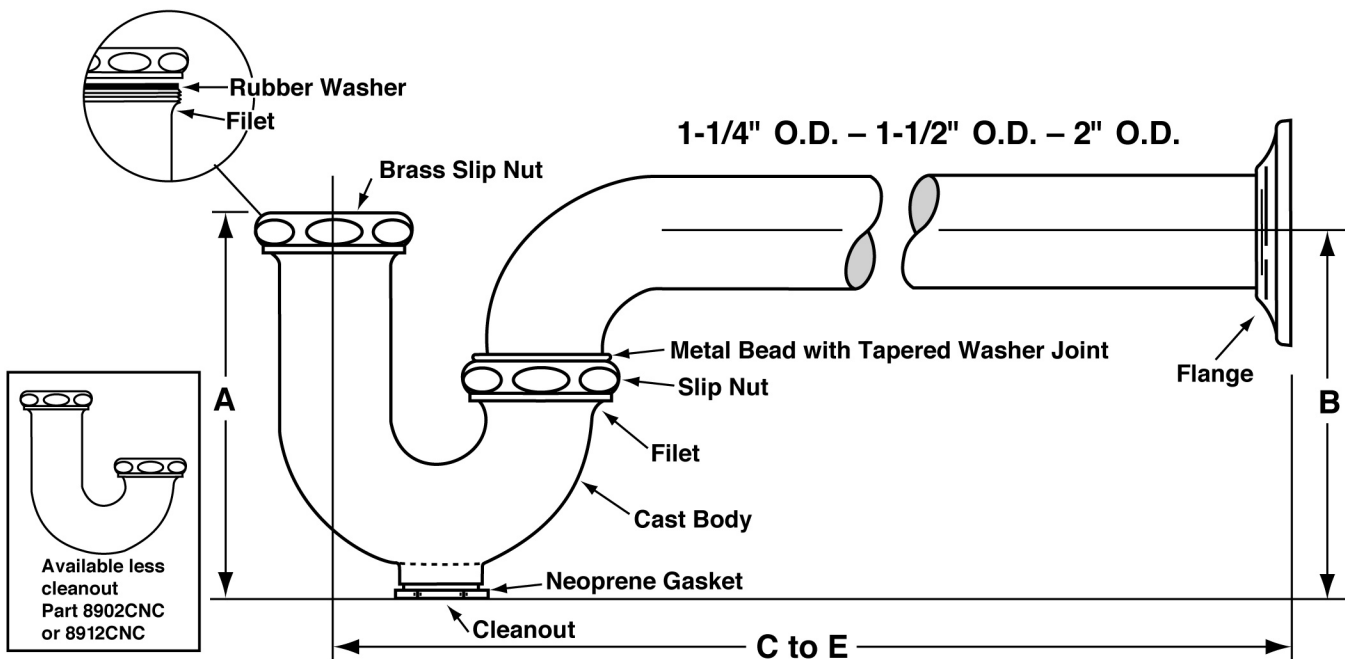
Part No.

8912C

Cast Body P-Trap
With or Without Cleanout

Job Name:

Submittal Number:



PROFESSIONAL LINE

ROUGHING MEASUREMENTS

NO.	TRAP DIMENSIONS		A	B	C to E
	INLET	OUTLET			
8912C	1-1/2"	1-1/2"	5"	5-1/2"	11-1/2"

- Rated Operating Temperature: 40-140°F
- Note: 180°F max. during temporary high-temperature system flush

FED SPEC W.W.P. 541

CAST BRASS P TRAP MINIMUM SEAL 2"

See options and accessories section for details on product variations.

ASME A112.18.2/CSA B125-2



Specifications:

P-Trap shall be chrome plated cast brass body (with, without) cleanout, with 17 gauge seamless tubular wall bend, cast brass slip nuts. Reducing washers shall be used with reducing cast brass nut. With (shallow, deep, bell) (steel, brass) or (forged brass with set screw) flange.

P-Trap shall be McGuire "Classic" Professional Line

Trap shall be certified by CSA or other recognized testing authority. Trap shall bear manufacturer and testing marks.



WARNING:

This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



McGuire Manufacturing Co., Inc.

60 Grandview Court

Cheshire, Connecticut 06410

(203) 699-1801 Fax (203) 699-1813

customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

Part No.

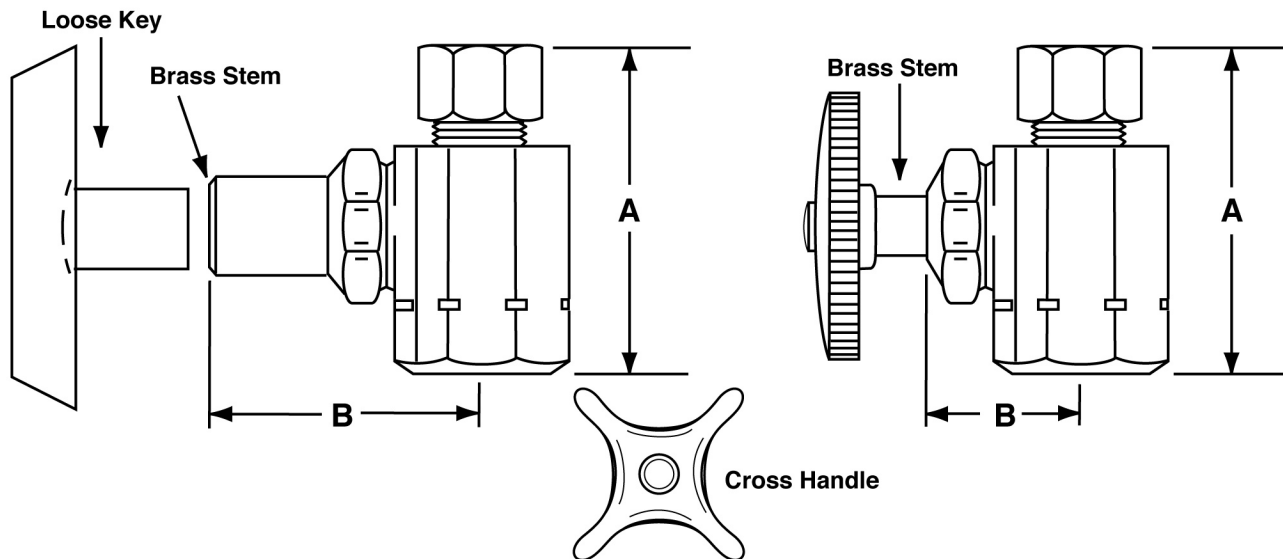
LFST12

**Straight Supply Stop
I.P.S. x O.D.**

Job Name:

Submittal Number:

Pipe To Compression



NO.	DESCRIPTION	ROUGHING MEASUREMENTS	
		A	B
LFST12	1/2" I.P.S. x 3/8" O.D.	1-15/16"	7/8"

- Rated Operating Pressure: 20-125 PSI
- Rated Operating Temperature: 40-140°F
- Note: 180°F max. during temporary high-temperature system flush

LK designates *Loose Key*

X designates *Heavy Brass Cross Handle*

See options and accessories section for details on product variations.



Specifications:

Chrome plated brass, Supply Stop Valve with full turn brass stem. Inlet shall be (3/8, 1/2) inch (IPS, sweat, compression). Outlet shall be (3/8, 1/2) inch (IPS, compression). Supply stop valve shall be McGuire. Supply stop valve shall be certified by CSA or other recognized testing authority and bear manufacturer and testing mark. Stop to be certified to 200 psi line pressure.



WARNING:

This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

CARRIER

M	JAY R. SMITH MFG. CO.® MEMBER OF MORRIS GROUP INTERNATIONAL POST OFFICE BOX 3237 MONTGOMERY, ALABAMA 36109-0237 (USA) TEL: 334-277-8520 FAX: 334-272-7396 www.jrsmith.com				LOCATION 																																																																																																																					
	URINAL SUPPORTS																																																																																																																									
	FOR OFF-THE-FLOOR URINALS																																																																																																																									
	WITH SUPPORTING STUDS FOR BLOWOUT AND WASHOUT URINALS																																																																																																																									
DRAWING NUMBER S0634	SIZE A	Fig. 0634 Side View Front View Fig. 0634D Side View																																																																																																																								
SCALE: NONE	DATE: 1-23-73																																																																																																																									
APPROVED BY:	CHECKED BY:																																																																																																																									
DRAWN BY: JH	FIGURE NUMBER																																																																																																																									
WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA																																																																																																																										
DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCE AND CHANGE WITHOUT NOTICE																																																																																																																										
ROUGH-IN TABLE																																																																																																																										
<table border="1" style="width:100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th>FIXTURE MFG.</th> <th>NAME</th> <th>NUMBER</th> <th>A</th> <th>B</th> <th>D</th> <th>J</th> <th colspan="2">Cutout for (Inlet)</th> </tr> <tr> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>K</th> <th>L</th> </tr> </thead> <tbody> <tr><td>Am. Std.</td><td>Allbrook</td><td>6545.016</td><td>24 (610)</td><td>36 1/8 (918)</td><td>5 (125)</td><td>2 (51)</td><td>-</td><td>X</td></tr> <tr><td>Briggs</td><td>Rushton</td><td>B-6940, 1</td><td>24 (610)</td><td>28 (710)</td><td>7 (180)</td><td>3 (76)</td><td>X</td><td>-</td></tr> <tr><td>Case</td><td>Casco</td><td>2325, 6</td><td>22 (560)</td><td>42 (1065)</td><td>6 (150)</td><td>1 (25)</td><td>-</td><td>X</td></tr> <tr><td>Crane</td><td>Expedio</td><td>7-101, 3</td><td>22 (560)</td><td>26 1/2 (675)</td><td>5 (125)</td><td>3 1/2 (89)</td><td>X</td><td>-</td></tr> <tr><td>Crane</td><td>Expedio</td><td>7-104</td><td>22 (560)</td><td>26 1/2 (675)</td><td>7 (180)</td><td>2 (51)</td><td>-</td><td>-</td></tr> <tr><td>Crane</td><td>Manhattan</td><td>7-105, 8</td><td>22 (560)</td><td>34 1/4 (870)</td><td>5 (125)</td><td>2 (51)</td><td>-</td><td>-</td></tr> <tr><td>Crane</td><td>Santo</td><td>7-111, 2</td><td>22 (560)</td><td>34 1/4 (870)</td><td>5 (125)</td><td>2 (51)</td><td>-</td><td>-</td></tr> <tr><td>U. Rundle</td><td>Colby</td><td>4981</td><td>22 (560)</td><td>33 1/4 (845)</td><td>5 1/2 (140)</td><td>2 (51)</td><td>-</td><td>-</td></tr> <tr><td>U. Rundle</td><td>Celtic</td><td>4989, 92</td><td>22 (560)</td><td>42 1/2 (1080)</td><td>7 (180)</td><td>1 (25)</td><td>-</td><td>X</td></tr> <tr><td>U. Rundle</td><td>Colburn</td><td>4990</td><td>22 (560)</td><td>33 1/2 (850)</td><td>4 1/4 (110)</td><td>2 (51)</td><td>-</td><td>-</td></tr> <tr><td>U. Rundle</td><td>Challenge</td><td>4993, 4</td><td>22 (560)</td><td>42 3/4 (1085)</td><td>7 (180)</td><td>1 (25)</td><td>-</td><td>X</td></tr> </tbody> </table>						FIXTURE MFG.	NAME	NUMBER	A	B	D	J	Cutout for (Inlet)									K	L	Am. Std.	Allbrook	6545.016	24 (610)	36 1/8 (918)	5 (125)	2 (51)	-	X	Briggs	Rushton	B-6940, 1	24 (610)	28 (710)	7 (180)	3 (76)	X	-	Case	Casco	2325, 6	22 (560)	42 (1065)	6 (150)	1 (25)	-	X	Crane	Expedio	7-101, 3	22 (560)	26 1/2 (675)	5 (125)	3 1/2 (89)	X	-	Crane	Expedio	7-104	22 (560)	26 1/2 (675)	7 (180)	2 (51)	-	-	Crane	Manhattan	7-105, 8	22 (560)	34 1/4 (870)	5 (125)	2 (51)	-	-	Crane	Santo	7-111, 2	22 (560)	34 1/4 (870)	5 (125)	2 (51)	-	-	U. Rundle	Colby	4981	22 (560)	33 1/4 (845)	5 1/2 (140)	2 (51)	-	-	U. Rundle	Celtic	4989, 92	22 (560)	42 1/2 (1080)	7 (180)	1 (25)	-	X	U. Rundle	Colburn	4990	22 (560)	33 1/2 (850)	4 1/4 (110)	2 (51)	-	-	U. Rundle	Challenge	4993, 4	22 (560)	42 3/4 (1085)	7 (180)	1 (25)	-	X
FIXTURE MFG.	NAME	NUMBER	A	B	D	J	Cutout for (Inlet)																																																																																																																			
							K	L																																																																																																																		
Am. Std.	Allbrook	6545.016	24 (610)	36 1/8 (918)	5 (125)	2 (51)	-	X																																																																																																																		
Briggs	Rushton	B-6940, 1	24 (610)	28 (710)	7 (180)	3 (76)	X	-																																																																																																																		
Case	Casco	2325, 6	22 (560)	42 (1065)	6 (150)	1 (25)	-	X																																																																																																																		
Crane	Expedio	7-101, 3	22 (560)	26 1/2 (675)	5 (125)	3 1/2 (89)	X	-																																																																																																																		
Crane	Expedio	7-104	22 (560)	26 1/2 (675)	7 (180)	2 (51)	-	-																																																																																																																		
Crane	Manhattan	7-105, 8	22 (560)	34 1/4 (870)	5 (125)	2 (51)	-	-																																																																																																																		
Crane	Santo	7-111, 2	22 (560)	34 1/4 (870)	5 (125)	2 (51)	-	-																																																																																																																		
U. Rundle	Colby	4981	22 (560)	33 1/4 (845)	5 1/2 (140)	2 (51)	-	-																																																																																																																		
U. Rundle	Celtic	4989, 92	22 (560)	42 1/2 (1080)	7 (180)	1 (25)	-	X																																																																																																																		
U. Rundle	Colburn	4990	22 (560)	33 1/2 (850)	4 1/4 (110)	2 (51)	-	-																																																																																																																		
U. Rundle	Challenge	4993, 4	22 (560)	42 3/4 (1085)	7 (180)	1 (25)	-	X																																																																																																																		
NOTE: All support bases must be securely anchored to a rigid floor and/or other rigid substructure with (4) 1/2" bolts furnished by others. NOTE: *This dimension can be increased when fixture support is to be installed behind the wall (specify when required and wall thickness). NOTE: **This dimension can be increased when required (specify wall thickness). NOTE: Dimensions shown in parentheses are in millimeters.																																																																																																																										
BASE DETAIL																																																																																																																										
<table border="1" style="width:100%; border-collapse: collapse; font-size: 0.8em;"> <tr> <td style="width:10%;">M</td> <td style="width:15%;">2-24-12</td> <td style="width:30%;">Rev. Dim., Base Plate</td> <td style="width:10%;">TBW</td> <td style="width:10%;">TWK</td> <td style="width:10%;">WEIGHT</td> <td style="width:10%;">VOLUME</td> <td style="width:15%;">FIGURE NUMBER</td> </tr> <tr> <td>L</td> <td>01/20/11</td> <td>Updated Logo</td> <td>JJ</td> <td>TW</td> <td>POUNDS</td> <td>CUBIC FEET</td> <td rowspan="3" style="text-align: center; font-size: 2em; font-weight: bold;">0634</td> </tr> <tr> <td>K</td> <td>04/22/09</td> <td>Added Note</td> <td>JJ</td> <td>AM</td> <td></td> <td></td> </tr> <tr> <td>J</td> <td>01/11/00</td> <td>Revised Base Plate</td> <td>JJ</td> <td>BS</td> <td></td> <td></td> </tr> <tr> <td>REV.</td> <td>DATE</td> <td>DESCRIPTION</td> <td>BY</td> <td>CKD. BY</td> <td></td> <td></td> <td></td> </tr> </table>						M	2-24-12	Rev. Dim., Base Plate	TBW	TWK	WEIGHT	VOLUME	FIGURE NUMBER	L	01/20/11	Updated Logo	JJ	TW	POUNDS	CUBIC FEET	0634	K	04/22/09	Added Note	JJ	AM			J	01/11/00	Revised Base Plate	JJ	BS			REV.	DATE	DESCRIPTION	BY	CKD. BY																																																																																		
M	2-24-12	Rev. Dim., Base Plate	TBW	TWK	WEIGHT	VOLUME	FIGURE NUMBER																																																																																																																			
L	01/20/11	Updated Logo	JJ	TW	POUNDS	CUBIC FEET	0634																																																																																																																			
K	04/22/09	Added Note	JJ	AM																																																																																																																						
J	01/11/00	Revised Base Plate	JJ	BS																																																																																																																						
REV.	DATE	DESCRIPTION	BY	CKD. BY																																																																																																																						