



Quality People. Building Solutions.

Comfort Systems USA (Arkansas), Inc.
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Date: 3/15/2023

Return Request: 3/25/2023

Project: Johnson Regional Medical Center (OBGYN)

Supplier: Sanders Supply

Submittal: Plumbing Fixtures

Submittal Number:

Drawing # and Installation: Plumbing Drawings

ARCHITECT

Studio Architects
1120 Garrison Avenue, Suite 1A
Fort Smith, AR 72901
479-782-4085

ENGINEER

HSA
7405 Ellis Street
Fort Smith, AR 72916
479-452-8922

GENERAL CONTRACTOR

Clark Contractors
15825 Cantrell Rd.
Little Rock, AR 72223
501-868-3133

MECHANICAL SUBCONTRACTOR

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N. Little Rock, AR 72117
501-834-3320

Notes:

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CSUSA PROJECT NO.

23-1005

jon@comfortar.com



TO: Studio 6 Architects
chip@gostudio6.com

ATTN: Chip Johnson

RE: Johnson Regional OB-GYN Clinic
HVAC

DATE: 03/27/2023 JOB NO. 22-056

ELECTRONIC SUBMITTAL WAS REVIEWED AS FOLLOWS:

- | | | |
|--|---|---|
| <input checked="" type="checkbox"/> CUT SHEETS | <input type="checkbox"/> NO EXCEPTIONS TAKEN | <input checked="" type="checkbox"/> APPROVED |
| <input type="checkbox"/> DRAWINGS | <input checked="" type="checkbox"/> NOTE MARKINGS | <input type="checkbox"/> REJECTED |
| <input type="checkbox"/> OTHER | <input type="checkbox"/> COMMENTS ATTACHED | <input type="checkbox"/> RESUBMIT |
| | | <input type="checkbox"/> RESUBMIT only items marked |

REMARKS:

Submittal - 23-1.0 HVAC- For Approval

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:

<input checked="" type="checkbox"/> File	
<input type="checkbox"/> Owner	
<input checked="" type="checkbox"/> Architect	
<input type="checkbox"/> Other	BY: Noah Sorrell

HSA Engineering Consulting Services, Inc.

7405 Ellis Street
Fort Smith, AR 72916

479.452.8922
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SUBMITTAL



SUBMITTAL COMMENT SHEET

PROJECT

Johnson Regional Medical Center OB-GYN Clinic

SUBMITTAL

Spec: 23

Title: HVAC



☐ APPROVED ☒ REVIEWED
☐ APPROVED AS NOTED ☐ REJECTED
☐ REVISE & RESUBMIT

THIS SUBMITTAL HAS BEEN REVIEWED FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. APPROVAL DOES NOT RELIEVE THE SUBCONTRACTOR/SUPPLIER OF THE RESPONSIBILITY FOR CONFORMANCE TO THE QUALITY STANDARDS AS SET FORTH IN THE CONTRACT DOCUMENTS. NOR DOES IT RELIEVE THE RESPONSIBILITY FOR FIELD VERIFICATION OF ALL CONDITIONS RELATING TO THIS CONTRACT.

OK'D BY: LC DATE: 3/16/2023

JRMC OB-GYN

Clarksville, AR

Comfort Systems USA

North Little Rock, AR

Operation & Maintenance

Sanders Supply



Hot Springs, AR

August 8, 2023

JRMC OB-GYN O&M

Plumbing Fixture Schedule Index

<u>TAB</u>	<u>Description</u>
P-1	Water Closet
P-2	Lavatory
P-3	Sinks
P-4	Watts Drainage Warranty

P-1

INSTALLATION INSTRUCTIONS

FLOOR MOUNTED BOTTOM OUTLET FLUSH VALVE TOILETS

*American
Standard*

ALL 16-1/2" RIGHT HEIGHT® TOILETS MEET ADA GUIDELINES:



Meets the American Disabilities Act Guidelines and ANSI A117.1 Requirements for the Physically Challenged

Thank you for selecting American Standard – the benchmark of fine quality for over 100 years. To ensure this product is installed properly, please read these instructions carefully before you begin. (Certain installations may require professional help.) Also be sure your installation conforms to local codes.

CAUTION: PRODUCT IS FRAGILE. TWO PEOPLE ARE RECOMMENDED FOR HANDLING TO AVOID BREAKAGE AND POSSIBLE INJURY!
NOTE: For proper operation product requires a minimum of 30 psi working line pressure

RECOMMENDED TOOLS AND MATERIALS

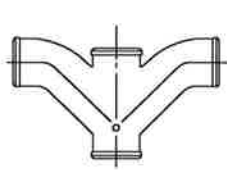
Putty Knife
Adjustable Wrench

Regular Screwdriver
Phillips Screwdriver

Sealant
Tape Measure

Carpenters Level
Flush Valve

BACK-TO-BACK INSTALLATION

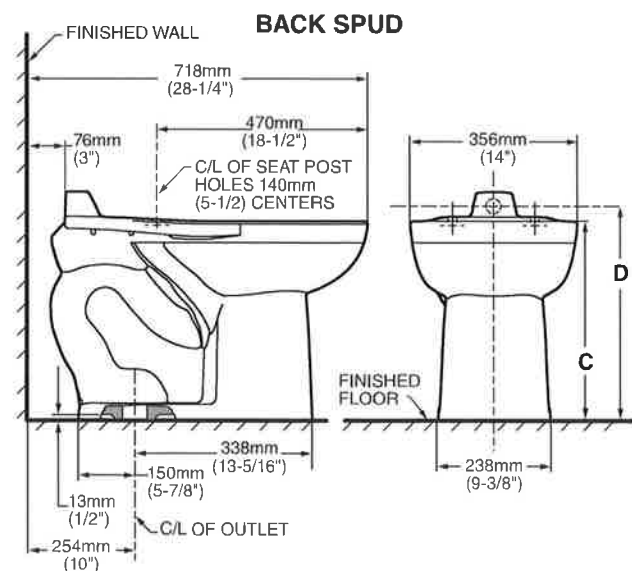
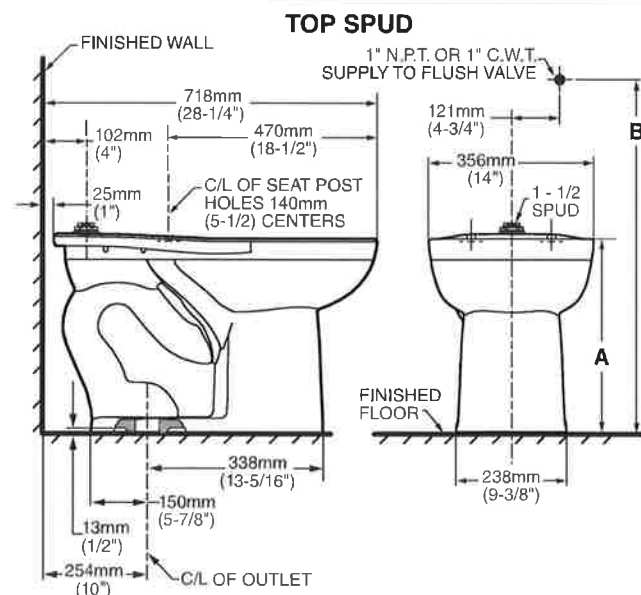


Recommended fitting type for back-to-back installations.

Depending upon your plumbing and venting conditions, the flow from this toilet in a back-to-back installation may create a vacuum on the system and draw water from the opposing bowl. The National Standards Plumbing Code prohibits the use of a cross fitting for drainage as throw over is possible. The code does approve a directional "Y" style fitting with proper venting to direct the water downward and away from the other toilet.

1 Pictures may not exactly define contour of china.

TOP SPUD		BOWL TYPE	BACK SPUD	
A	B		C	D
381mm (15")	673mm (26-1/2")	NORMAL HEIGHT 15"	381mm (15")	400mm (15-3/4")
419mm (16-1/2")	711mm (28")	RIGHT HEIGHT® 16-1/2"	419mm (16-1/2")	438mm (17-1/4")
356mm (14")	673mm (26-1/2")	YOUTH HEIGHT 14"	—	—



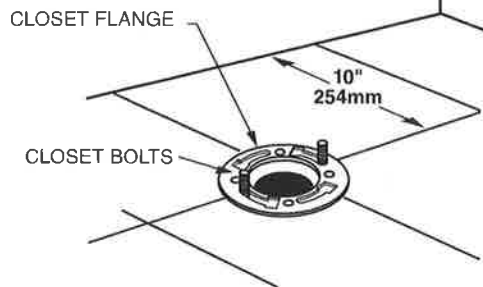
7601166-100R4

Product names listed herein are trademarks of AS America, Inc.
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7301166-100 Rev. 4 9/19

SAVE FOR FUTURE USE

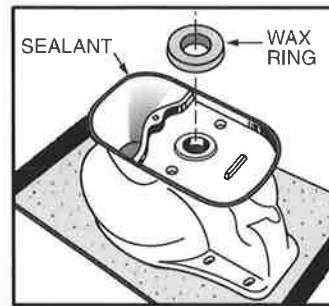
2



INSTALL CLOSET BOLTS

Install closet bolts in flange channel, turn 90°, and slide into place 6" (152 mm) apart and parallel to wall.

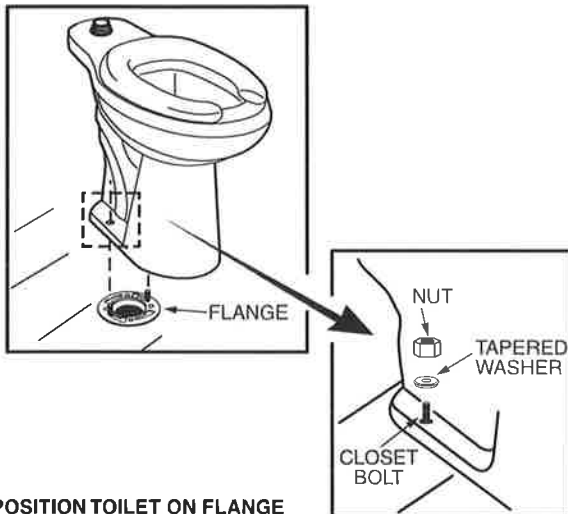
3



INSTALL WAX SEAL

Invert toilet on floor (cushion to prevent damage), and install wax ring evenly around waste flange (horn), with tapered end of ring facing toilet. Apply a thin bead of sealant around toilet base.

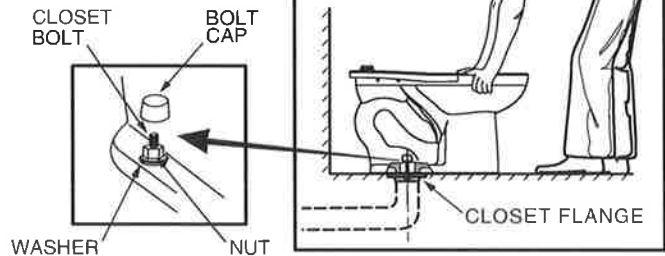
4



POSITION TOILET ON FLANGE

- Unplug floor waste opening and install toilet on closet flange so bolts project through mounting holes.
- Loosely install retainer washers and nuts. Side of washers marked "THIS SIDE UP" must face up!

5



INSTALL TOILET

- Position toilet squarely to wall and, with a rocking motion, press bowl down fully on wax ring and flange. Alternately tighten nuts until toilet is firmly seated on floor.
- Install caps on washers. (If necessary, cut bolt height to size before installing caps.)
- Smooth off the bead of sealant around base. Remove excess sealant.

CAUTION:
DO NOT OVERTIGHTEN NUTS
OR BASE MAY BE DAMAGED!

AS AMERICA, INC. ONE YEAR LIMITED WARRANTY

If inspection of this AS America, Inc. ("American Standard") plumbing product, within one year after its initial purchase, confirms that it is defective in materials or workmanship, American Standard will repair or, at its option, exchange the product for a similar model.

This limited warranty applies only to the original purchaser and installation of these products. In the event of a limited warranty claim, proof of purchase will be required—save sales receipt.

This limited warranty does not apply to local building code compliance. Since local building codes vary considerably, the purchaser of this product should check with a local building or plumbing contractor to insure local code compliance before installation.

This limited warranty is void if the product has been moved from its initial place of installation; if it has been subjected to faulty maintenance, abuse, misuse, accident or other damages; if it was not installed in accordance with American Standard's instructions; or if it has been modified in a manner inconsistent with the product as shipped by American Standard.

American Standard's option to repair or exchange the product under this limited warranty does not cover any labor or other costs of removal or installation. IN NO EVENT WILL AMERICAN STANDARD BE LIABLE FOR THE COST OF REPAIR OR REPLACEMENT OF ANY INSTALLATION MATERIALS, INCLUDING BUT NOT LIMITED TO, TILES, MARBLE, ETC. American Standard will not be responsible for any other incidental or consequential damages attributable to a product defect or to the repair or exchange of a defective product, all of which are expressly excluded from this limited warranty. This limited warranty does not cover any liability for consequential or incidental damages, all of which are hereby expressly disclaimed, or the extension beyond the duration of this limited warranty of any implied limited warranties, including those of merchantability or fitness for an intended purpose. (Some states or provinces do not allow the exclusion or limitation of implied limited warranties, so this exclusion may not apply to you.)

This limited warranty gives you specific legal rights. You may have other statutory rights that vary from state to state or from province to province, in which case this limited warranty does not affect such statutory rights.

In the United States:
American Standard Brands
1 Centennial Ave
Piscataway, New Jersey 08854
Attention: Director of Customer Care
For residents of the United States, warranty
information may also be obtained by calling
the following toll free number: (800) 442-1902
www.americanstandard.com

In Canada:
LIXIL Canada, ULC
5900 Avebury Rd.
Mississauga, Ontario
Canada L5R 3M3
Toll Free: (800) 387-0369
www.americanstandard.ca

In Mexico:
American Standard B&K Mexico
S. de R.L. de C.V.
Via Morelos #330
Col. Santa Clara
Ecatepec 55540 Edo. Mexico
Toll Free: 01-800-839-1200
www.americanstandard.com.mx

THIS WARRANTY IS NOT TRANSFERABLE FROM ORIGINAL CONSUMER PURCHASER.



Aquaflush®

Z6000 Series

Aquaflush Exposed Flushometer

Installation, Operation, Maintenance and Parts Manual

Patented and Patents Pending



Z6000



Z6003



Aquaflush Exposed Closet/Urinal Systems

Z6000	Z6014
Z6001	Z6017
Z6003	Z6096
Z6010	Z6099

NOTICE: READ ENTIRE MANUAL PRIOR TO INSTALLING PRODUCT.

⚠ 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

LIMITED WARRANTY

All goods sold hereunder are warranted to be free from defects in material and factory workmanship for a period of three years from the date of purchase. Decorative finishes warranted for one year. We will replace at no costs goods that prove defective provided we are notified in writing of such defect and the goods are returned to us prepaid at Sanford, NC, with evidence that they have been properly maintained and used in accordance with instructions. We shall not be responsible for any labor charges or any loss, injury or damages whatsoever, including incidental or consequential damages. The sole and exclusive remedy shall be limited to the replacement of the defective goods. Before installation and use, the purchaser shall determine the suitability of the product for his intended use and the purchaser assume all risk and liability whatever in connection therewith. Where permitted by law, the implied warranty of merchantability is expressly excluded. If the products sold hereunder are "consumer products," the implied warranty of merchantability is limited to a period of three years and shall be limited solely to the replacement of the defective goods. All weights stated in our catalogs and listed are approximate and are not guaranteed.

NOTE: The information in this manual is subject to change at any time without notice. Installations may be performed at different times of construction by different individuals. For this reason, these instructions should be left on-site with the facility or maintenance manager.

Aquaflush® Rough-In, Product Specification, Models and Options

ENGINEERING SPECIFICATION: ZURN Aquaflush Exposed Closet Flush Valve – Exposed, quiet diaphragm-type, chrome-plated flushometer valve with a polished exterior. Complete with a chloramine resistant, dual seal diaphragm with a clog resistant by-pass. The valve is ADA compliant with a non-hold open and no leak handle feature, high back pressure vacuum breaker, one-piece hex coupling nut, adjustable tailpiece, spud coupling, and flange for top spud connection. Control stop has internal siphon-guard protection. Internal seals are made of chloramine resistant materials.

Z6000PL Aquaflush Plus is furnished as specified above and includes sweat solder kit, vandal-resistant stop cap, and cast wall flange with setscrew.

MODELS

Z6000 – 1-1/2" Water Closet Valve with top spud connection.

Z6010 – 1-1/2" Water Closet Valve with back spud connection.

Z6001 – 1-1/4" Urinal Valve with top spud connection.

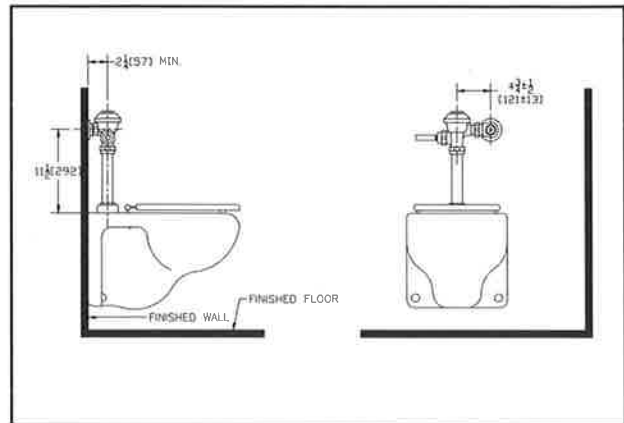
Z6003 – 3/4" Urinal Valve with top spud connection.

FLOWS

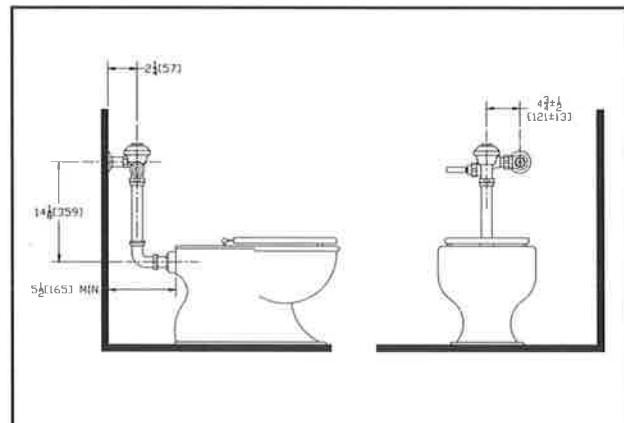
-FF	Full Flow
	3.0 Gal. for Urinal, 4.5 Gal. for Water Closet
-HET	High Efficiency Toilet (PL Only)
	1.28 Gal. for Water Closet
-WS1	Low Consumption
	1.0 Gal. for Urinal, 1.6 Gal. for Water Closet
-WS	1.5 Gal. for Urinal, 3.5 Gal. for Water Closet
-ULF	0.125 Gal. for Urinal (PL Only)

OPTIONS

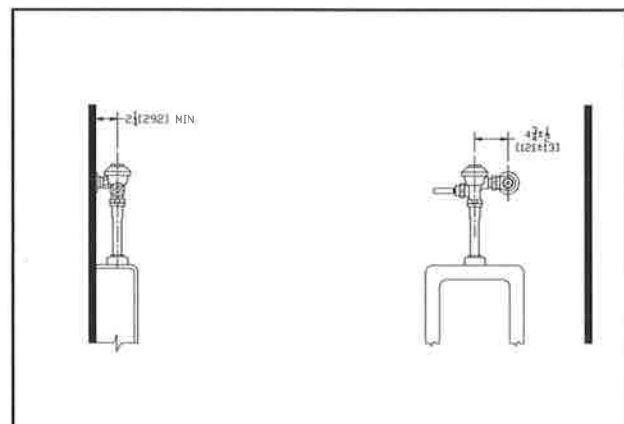
___-BG	BioCare Handle
___-H	Handle on Front of Flush Valve
___-L	1" [25] Metal Push Button
___-L3	3" [76] Metal Push Button
___-VC	Vandal-Resistant Stop Cover
___-YB	Sweat Solder Kit
___-YC	Cast Wall Flange
___-YJ	Split Ring Pipe Support
___-YK	Solid Ring Pipe Support
___-YO	Bumper on Stop Angle



Models: Z6000, Z6000-1, Z6000-2, Z6000-3,
-HET (High Efficiency) 1.28 Gal.
-WS1 (Water Saver) 1.6 Gal. Low Consumption



Models: Z6010, Z6010-1, Z6010-2,
-HET (High Efficiency) 1.28 Gal.
-WS1 (Water Saver) 1.6 Gal. Low Consumption



Models: Z6001 (1-1/4" urinal flush valve)
Z6003 (3/4" urinal flush valve)
-WS1 (Water Saver) 1.0 Gal. Low Consumption
-ULF (Ultra Low Flow) 0.125 Gal.

Sweat Solder Adaptor Installation Instructions

Important:

- All plumbing is to be installed according to state and local codes and regulations.
- Water supply lines need to allow proper water flow for each fixture.
- Flush all lines of any **debris** before making connections.
- Do not use pipe sealant or plumbing grease on any fitting other than the control stop inlet.

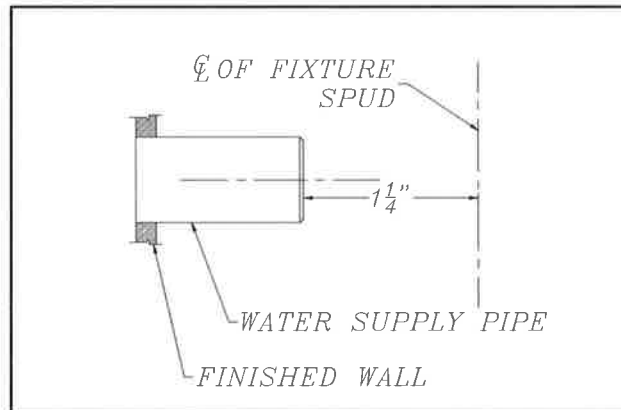
The Aquaflush valve is designed to operate under various water pressures with a recommended range between 10 and 100 psi (69 to 689 kPa). Each Zurn valve is tested for proper performance at the factory before being shipped. Consult the product pages of the catalog for available flow options.

Most low consumption fixtures (1.28 and 1.6 gallon) require a minimum of 25 psi running pressure through the valve to obtain proper evacuation. Please be sure to consult fixture manufacturer on minimum running water supply requirements for proper evacuation.

When installing your quality Zurn valve it is recommended that to protect the polished finish you do not use a toothed wrench. This will cause gouges and scratches on your valve.

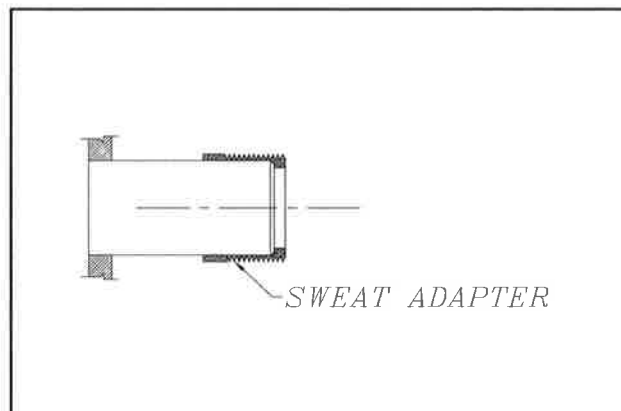
STEP NO. 1

Measure distance from finished wall to center line of fixture spud; cut water supply pipe 1-1/4" shorter than this measurement. Chamfer O.D. and I.D.



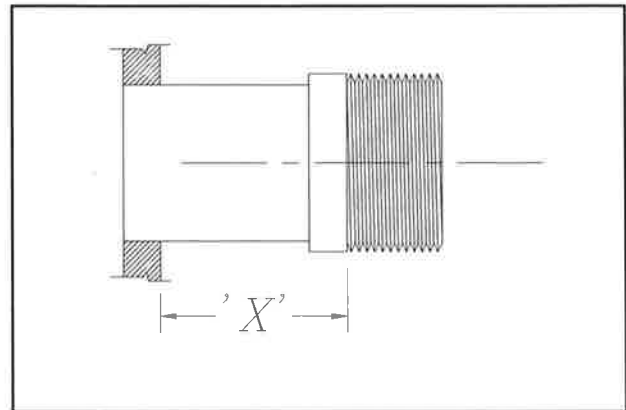
STEP NO. 2

Slide threaded adapter onto supply pipe until shoulder stops on end of pipe. Then sweat-solder the adapter to water supply pipe.



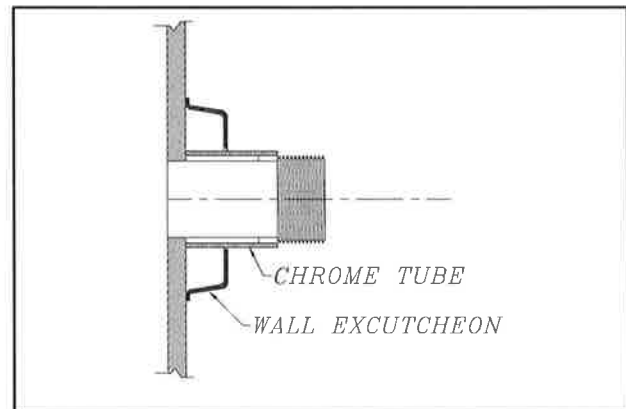
STEP NO. 3

Measure from finished wall to first thread of adapter for length of chrome tube. Cut chrome tube this length 'X'.



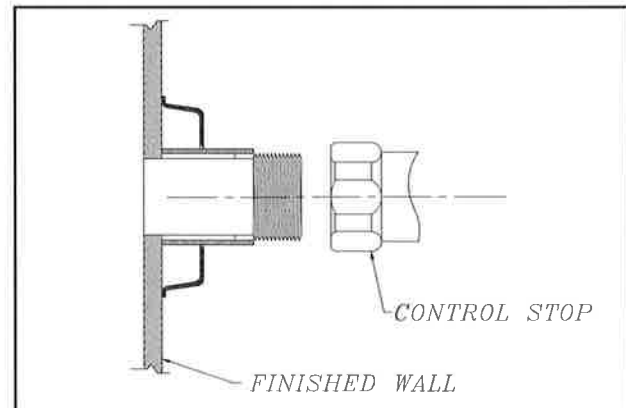
STEP NO. 4

Slide wall escutcheon over chrome tube and slide both chrome tube and wall escutcheon over supply pipe pushing the wall escutcheon all the way to the wall.



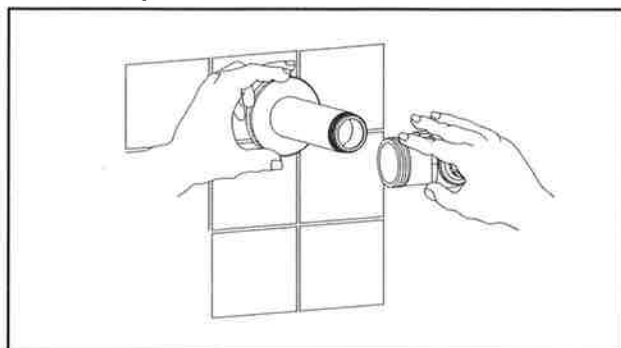
STEP NO. 5

Screw control stop onto water supply water adaptor.

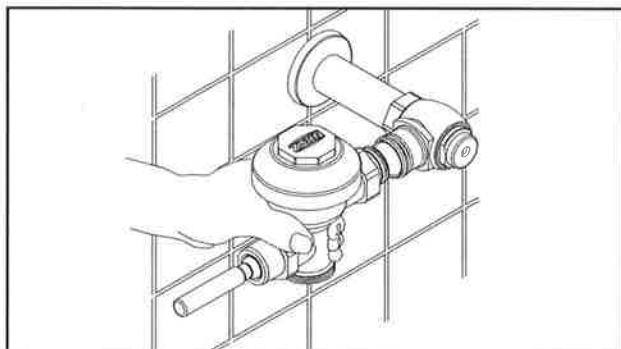


Aquaflush® Installation Instructions

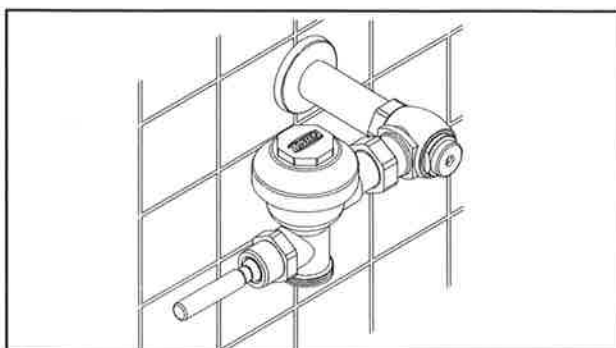
1. Install stop valve assembly using proper size supply escutcheon and sweat solder adapter kit if applicable (see 1). Thread sealing compounds should be used on male NPT threads only.



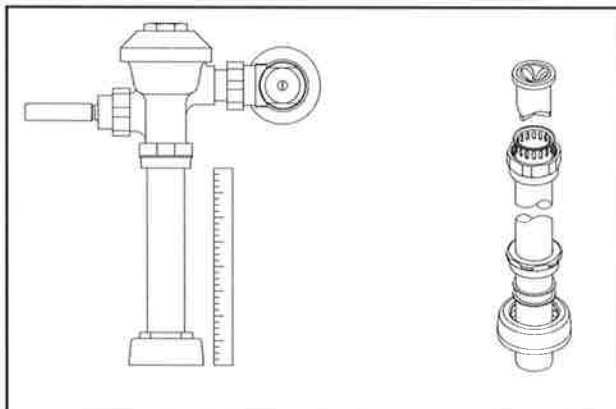
2. Prior to inserting the flush valve tailpiece into stop valve, be certain that the O-ring seal is located in O-ring seal groove at the end of the tailpiece and the locking nut and locking snap ring are located as shown below (see 2). Care should be taken not to damage the O-ring when inserting the tailpiece into the stop valve. If lubrication is needed, wetting the O-ring with water will be sufficient.



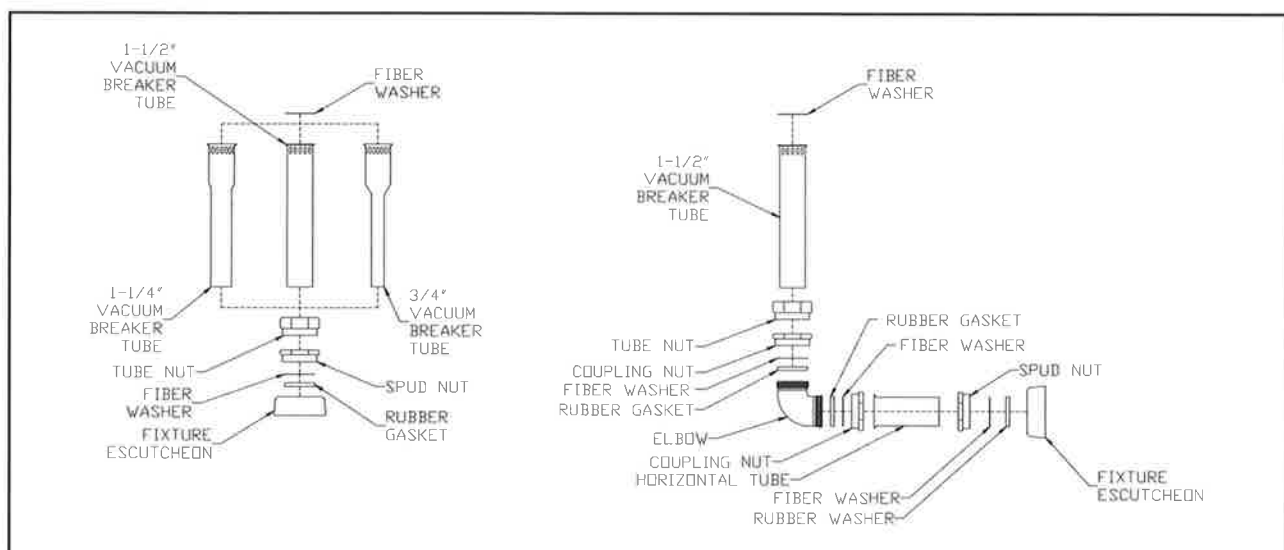
3. Insert the flush valve tailpiece into the stop valve and hand tighten the lock nut to the stop valve. Plumb the entire unit (see 3).



4. Determine the length of vacuum breaker tube required to join the flush valve and fixture spud. Cut the vacuum breaker tube, if required, to this length (see 4a). Assemble the vacuum breaker tube assembly and spud nut assembly to the flush valve and fixture spud (see 4b).

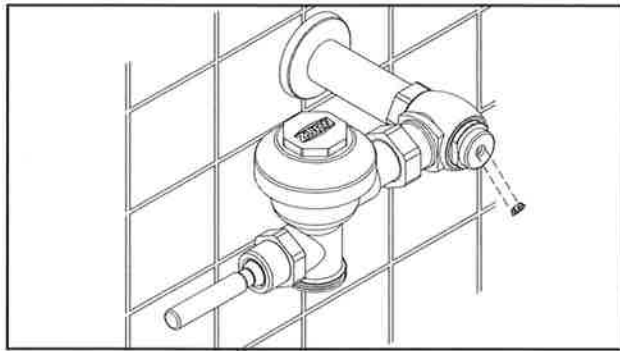


5. Hand tighten spud nut and vacuum breaker tube nut to fixture and flush valve. Adjust the valve assembly for plumb. Tighten fixture spud nut, vacuum breaker tube nut and lock nut with a wrench.



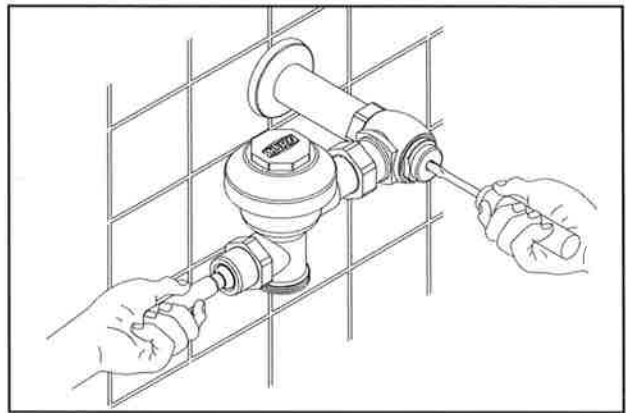
Aquaflush® Installation Instructions

6. When all flush valves are connected to the fixtures and water pressure is available, it is recommended that the supply piping be flushed to remove dirt, pipe chips, etc. from system. Before the water is turned on, be sure all stop valves to the flush valves are closed off tight. The stop valves can be opened and closed by using the adjusting screw located at the center of the stop valve cap, behind the stop snap cap screw cover if already installed (see 6a). Stop valve adjustments can only be made by using the adjusting screw. **It is not necessary to remove the stop valve cap when making adjustments. If for any reason it becomes necessary to remove the stop valve cap, be certain the water is shut off at the main supply valve.**



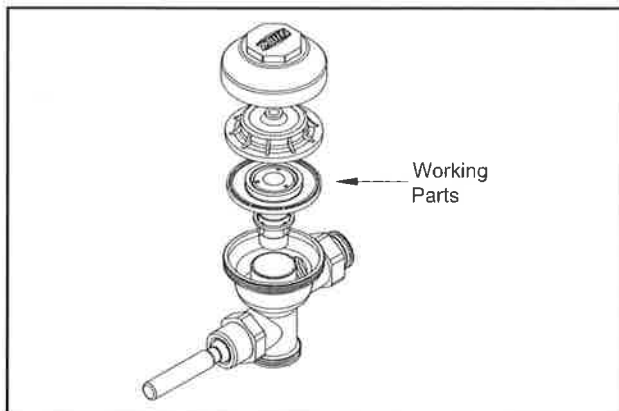
This procedure should also be followed when the system has been drained for some time, as occurs in athletic fields, recreation parks, etc.

7. The Aquaflush flush valves are preset for fixture volume as marked on the valve cartons. The valve does not require regulation for variation in water pressure within its operating range. To set the flush valve for proper operation, gradually adjust the stop valve open, using the adjusting screw, while actuating the valve until the rate of water flow into the fixture is not excessive, yet is sufficient enough to adequately evacuate the waste. The final setting for urinals should be such that the fixture will not overflow when the valve is actuated in succession. The stop snap cap screw cover should be secured after final adjustments have been made.



Use the following procedure to flush out the supply piping:

- A. Remove the main valve body cover.
- B. Remove the working parts from the flush valve (shown in 6b).
- C. Replace the main valve body cover and plastic cover without reinstalling the working parts.
- D. Open the stop valve by using the stop adjusting screw, and flush out all debris from pipe and connections.
- E. Shut stop, open cover, replace the working parts, replace plastic cover and main valve body cover and tighten.

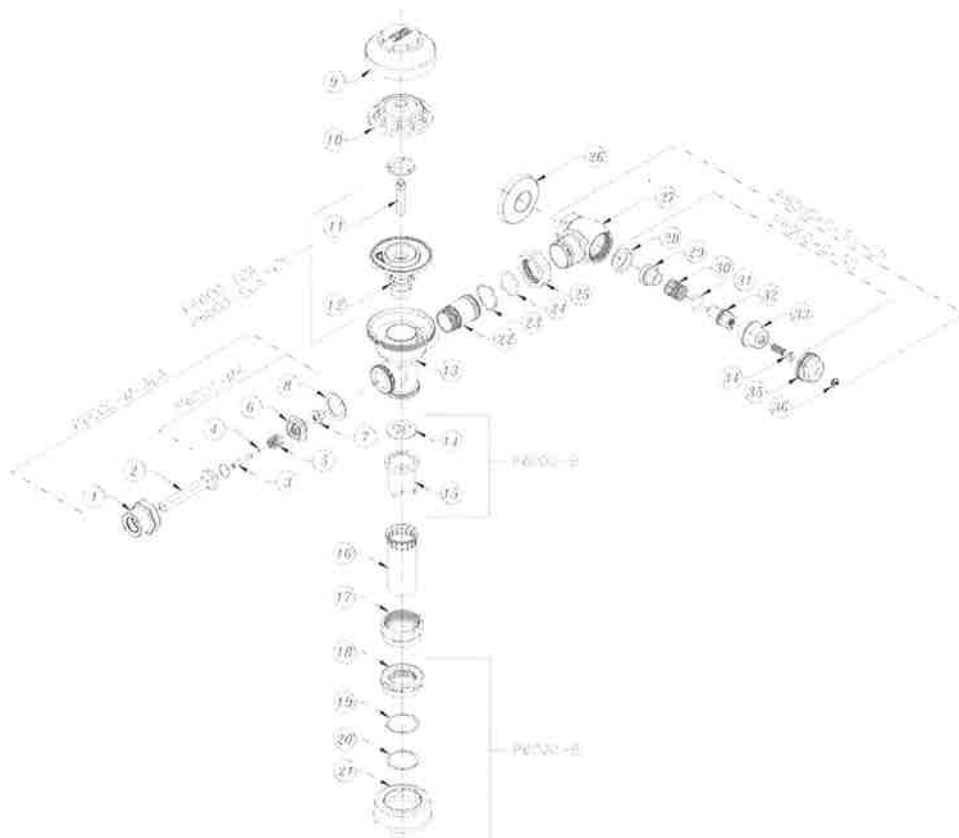




Aquaflush™ Exposed Repair Kits

Part Identification

1. Handle Nut
2. Handle
3. Actuator Rod
4. Handle O-Ring
5. Handle Spring
6. Handle Seal Retainer
7. Handle Seal
8. Handle Gasket
9. Valve Body Cover
10. Plastic Wrap
11. Trip Mechanism
12. Diaphragm Assembly
13. Valve Body
14. Vacuum Breaker Insert
15. Vacuum Breaker Duckbill
16. Vacuum Breaker Tube
17. Vacuum Breaker Tube Nut
18. Spud Nut
19. Spud Friction Washer
20. Spud Sleeve
21. Spud Escutcheon
22. Tailpiece
23. Snap Ring
24. Tailpiece O-Ring
25. Locking Nut
26. Wall Flange
27. Stop Body
28. Piston Seal
29. Piston Seal
30. Stop Spring
31. Guide O-Ring
32. Piston Guide
33. Guide Holder
34. Adjusting Screw
35. Stop Cap
36. Snap Cap Screw Cover



Covers and Repair Kits	Product No.
Outside Cover - CP - Item 9	P6000-LL-CP
Inside Cover - Item 10	P6000-L
HET Water Closet Kit - 1.28 gal. flush (PL Only)	P6000-ECA-HET
ULF Urinal Kit - 0.125 gal. flush (PL Only)	P6000-EUA-ULF
Low Consumption Closet Kit - 1.6 gal. flush	P6000-ECR-WS1
Water Saving Closet Kit - 3.5 gal. flush	P6000-ECR-WS
Full Flow Closet Kit - 4.5 gal. flush	P6000-ECR-FF
Low Consumption Urinal Kit - 1.0 gal. flush	P6000-EUR-WS1
Water Saving Urinal Kit - 1.5 gal. flush	P6000-EUR-WS
Full Flow Urinal Kit - 3.0 gal. flush	P6000-EUR-FF

Repair Parts - Inside Parts	Product No.
Urinal Relief Valve - Item 11	P6000-EU13
Closet Relief Valve - Item 11	P6000-EC13

Aquaflush Rebuild Kits	Product No.
Closet and Urinal Rebuild Kits Include Items 3-8, 11, 12, 24, 28-34	P6000-EC-WS-RK P6000-EC-WS1-RK P6000-EU-WS-RK P6000-EU-WS1-RK

Handle Assembly and Repair Kits	Product No.
ADA Handle Assembly (Side) Includes Items 1-8	P6000-M-ADA
Handle Repair Kit (Side) Includes Items 4-8	P6000-MK
Handle Seal Includes Item 8	P6000-M9
Handle Gasket Includes Item 9	P6000-M10
Repair Kit for Front Operation - Exposed Includes Items 4-9	P6000-MHK
Handle Assembly (Front) Includes Items 2-9	P6000-MH

Control Stop Repair Kit and Parts	Product No.
Control Stop Repair Kit for 1" and 3/4"	P6000-D-SD
Includes Items 28-34	
Seal Seat for 1" and 3/4", Includes Item 24	P6000-D42
VP Control Stop Repair Kit for 1" and 3/4"	P6000-D-VP
Sweat Solder Connection with Cast Wall Flange	P6000-YB

Adjustable Tailpieces	Product No.
Adjustable Tailpiece for Standard Flush Valve	P6000-J1
Includes Items 22-25	
Tailpiece Coupling Assembly Includes Items 23-25	P6000-K
Tailpiece Locking Ring Includes Item 23	P6000-C30
Tailpiece O-Ring Includes Item 24	P6000-C31
Coupling Nut Includes Item 25	P6000-C32

Flush Connections and Spud Coupling Kits	Product No.
Flush Tube Assembly for Flush Valves Includes Items 14-17. Specify diameter and length.	P6000-A
Vacuum Breaker Repair Kit Includes Items 14-15	P6000-B-HP
Spud Coupling Assembly Includes Items 18-21. Specify size.	P6000-H-CP

Aquaflush® Trouble Shooting Guide

Problem	Cause*	Corrective Action*
Valve will not operate.	1.) Stop valve is closed. 2.) Supply valve is closed.	1.) Open stop valve. 2.) Open supply valve.
Insufficient volume of water to adequately siphon fixture.	"1.) Stop valve is not open enough. 2.) Urinal trip mechanism installed in wrong kit, urinal for closet. 3.) Insufficient volume or pressure at supply.	1.) Open stop valve for desired volume of water. 2.) Replace urinal part with proper closet valve part. 3.) If gauges are not available to measure supply pressure or volume of water at the valve, completely remove the working parts and open the stop valve to allow water to pass through the empty valve. If the supply is adequate to siphon the fixture, the guide ring (#16) may be removed from the guide assembly to provide additional flow (see page 5). Should this prove unsatisfactory, steps should be taken to increase the pressure and/or supply.
Flush valve shuts off too quickly.	1.) Damaged or punctured diaphragm. 2.) Enlarged by-pass orifice. "	1.) Install new P6000-EUR or P6000-ECR replacement kit to remedy the problem. (#12 thru #17) 2.) Install new P6000-EUR or P6000-ECR replacement kit to remedy the problem. (#12 thru #17) "
Valve is short flushing.	1.) Diaphragm kit is not matched to the fixture. 2.) Urinal trip mechanism (black #12) is in the closet flush valve.	"1.) Install the proper P6000-EUR or P6000-ECR replacement kit to remedy the problem. (#12 thru #17) 2.) Install closet trip mechanism (white #12).
Valve is flushing too long or not shutting off.	1.) Trip mechanism not seating properly due to foreign material between trip mechanism and retainer disc. 2.) By-pass orifice is plugged or partially plugged. 3.) Line pressure is not adequate to force trip mechanism to seal. 4.) Cracked cover. (#11)	1.) Disassemble parts and rinse thoroughly. 2.) Examine by-pass orifice and clean if necessary being certain not to enlarge orifice opening. 3.) Pressure is inadequate or has dropped below minimum operating range. Steps should be taken to increase the line pressure. 4.) Replace cover with new one.
Water splashes out of fixture.	1.) Supply volume is more than is necessary. 2.) Lime accumulation on vortex or spreader holes of fixture.	1.) Adjust downward on control stop. 2.) Remove the lime build up.
Flush is not considered quiet.	1.) Control stop may not be adjusted for quiet operation. 2.) Fixture may be contributing to noise. 3.) Piping system may be source of noise.	1.) Adjust the control stop for quiet operation keeping in mind the fixture evacuation requirements. 2.) Check noise created by fixture by placing a cover over the bowl opening to separate valve noise from bowl noise. If it is determined the fixture is too noisy consult with fixture manufacturer. 3.) High pressure in the system can sometimes be controlled by the stop valve. Other sources of noise may be the absence of air chambers and shock arrestors, loose pipes, improper size pipes, etc. In these cases the building engineer should be consulted.
Handle assembly leaking.	1.) Handle assembly is not tight.	1.) Tighten handle assembly.

Care of Chrome Plated Surfaces

The suggested cleaning of chrome plated surfaces is simply to clean them with mild soap and water, then dry. Commercial cleaning compounds are never recommended.

Seasonal Use

Valves used in installations subject to shut down because of cold and freezing conditions should be maintained in the following manner. After the main supply has been shut off and the water drained from the system, remove the stop valve cap and stop valve internals to allow the water to drain from the flush valve itself.

*See previous page for numerical references.



ZURN INDUSTRIES, LLC COMMERCIAL BRASS OPERATION, 5900 ELWIN BUCHANAN DRIVE, SANFORD, NC, U.S.A. 27330
PHONE: 1-800-997-3876 FAX: 919/775-3541 www.zurn.com
ZURN INDUSTRIES LIMITED 3544 NASHUA DRIVE, MISSISSAUGA, ONTARIO L4V 1L2 PHONE: 905/405-8272 FAX: 905/405-1292



Manual Handle Flush Valve Troubleshooting Guide

Problem	Cause	Corrective Action
Valve will not operate.	1.) Stop valve is closed. 2.) Supply valve is closed.	1.) Open stop valve. 2.) Open supply valve.
Insufficient volume of water to adequately siphon fixture.	1.) Stop valve is not open enough. 2.) Improper diaphragm kit installed. 3.) Insufficient volume or pressure at supply.	1.) Open stop valve for desired volume of water. 2.) Replace with proper gallons-per-flush diaphragm kit. 3.) Measure water pressure. If gauges are not available to measure supply pressure or volume of water at the valve, remove the trip component and reassemble the valve. Then, open the stop valve to allow water to pass through the empty valve. Should this prove unsatisfactory, steps should be taken to increase the pressure and/or supply.
Flush valve shuts off too quickly.	1.) Damaged or punctured diaphragm. 2.) Enlarged by-pass orifice. 3.) Improper diaphragm kit installed.	1.) Replace diaphragm kit. 2.) Replace diaphragm kit. 3.) Replace with proper gallons-per-flush diaphragm kit.
Valve is flushing too long or not shutting off.	1.) Trip mechanism not seating properly due to foreign material between trip mechanism and retainer disc. 2.) By-pass orifice is plugged or partially plugged. 3.) Line pressure is not adequate to force trip mechanism to seal. 4.) Cracked cover. 5.) Debris may be trapped on underside of diaphragm.	1.) Disassemble parts and rinse thoroughly. 2.) Examine by-pass orifice and clean if necessary being certain not to enlarge orifice opening. 3.) Pressure is inadequate or has dropped below minimum operating range. Steps should be taken to increase the line pressure. 4.) Replace cover with new one. 5.) Clean debris from diaphragm kit and be sure no damage has been done to diaphragm.
Water splashes out of fixture.	1.) Supply volume is more than is necessary. 2.) Lime buildup on vortex or spreader holes of fixture.	1.) Turn stop valve clockwise to reduce supply to desired volume. 2.) Remove the lime build up.
Flush is not considered quiet.	1.) Control stop may not be adjusted for quiet operation. 2.) Fixture may be contributing to noise. 3.) Piping system may be source of noise.	1.) Adjust the control stop for quiet operation keeping in mind the fixture evacuation requirements. 2.) Check noise created by fixture by placing a cover over the bowl opening to separate valve noise from bowl noise. If it is determined the fixture is too noisy consult with fixture manufacturer. 3.) High pressure in the system can sometimes be controlled by the stop valve. Other sources of noise may be the absence of air chambers and shock arrestors, loose pipes, improper size pipes, etc. In these cases the building engineer should be consulted.
Chattering noise in flush valve.	1.) The inside cover has been distorted by freezing or abuse.	1.) Replace both inside plastic cover and outside brass cover.
Handle assembly leaking.	1.) Handle assembly is not tight.	1.) Tighten handle assembly.

Care of Chrome Plated Surfaces

The suggested cleaning of chrome plated surfaces is simply to clean them with mild soap and water, then dry. Commercial cleaning compounds are never recommended.

Seasonal Use

Valves used in installations subject to shut down because of cold and freezing conditions should be maintained in the following manner. After the main supply has been shut off and the water drained from the system, remove the stop valve cap and stop valve internals to allow the water to drain from the flush valve itself.

Replacement Parts

Use Zurn replacement parts. Use of any other parts may result in a decline in performance and water savings.

Rev. A | Date: 11/8/2022 | C.N. No. 144847 | Prod./Dwg. No. FV827

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Warranty

Warranty Statement

All products are guaranteed against defects in material and workmanship for a period of one (1) year from date of purchase.

This guarantee does not apply to any compression molded wood, solid wood, decorator, or economy residential plastic toilet seats used in nonresidential installations, including hotels and motels.

This guarantee does not apply to any toilet seats which are modified in any way or used on any type of installation or unit other than conventional water closets. We assume no liability for toilet seats modified or installed on anything other than conventional water closets.

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P-2

INSTALLATION INSTRUCTIONS CARE AND MAINTENANCE

WALL HUNG SINK

*American
Standard*

NOTE: For installation of models using concealed or exposed arms, follow instruction provided by arms manufacturer.

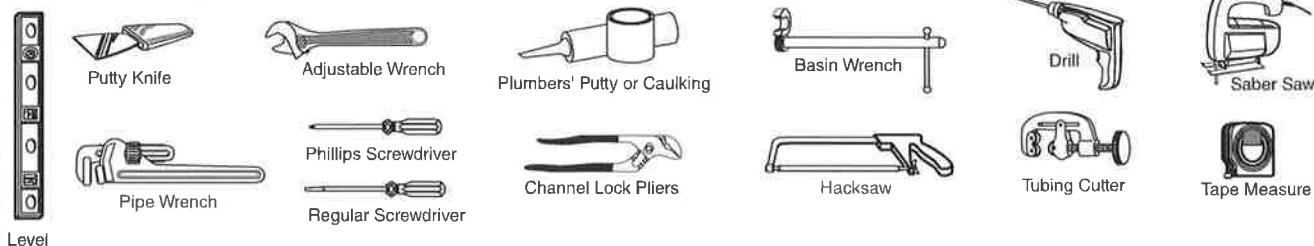
Thank you for selecting American Standard - the benchmark of fine quality for over 100 years. To ensure this product is installed properly, please read these instructions carefully before you begin. (Certain installations may require professional help.) Also be sure your installation conforms to local codes.

⚠ CAUTION: PRODUCT IS FRAGILE. TO AVOID BREAKAGE AND POSSIBLE INJURY HANDLE WITH CARE!

NOTE: Pictures may not exactly define contour of china and components.

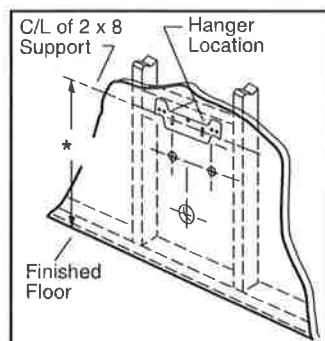
OBSERVE LOCAL PLUMBING AND BUILDING CODES

Recommended Tools & Materials



1 Provide suitable reinforcement behind finished wall for lavatory hanger mounting screws. *Determine horizontal center line location of support from the table listed in Step 2. (Make sure support bottom extends to lavatory back wall bottom.)

NOTE: If replacing an existing sink be certain to shut off water supply before removing old sink.

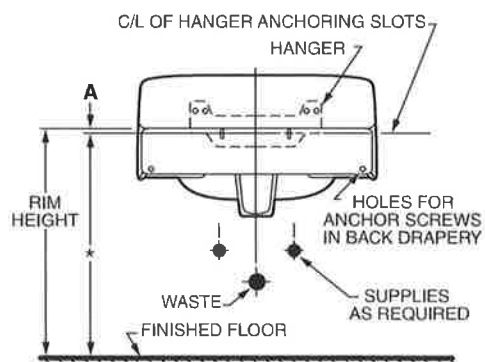


2 Determine the desired rim height (for example 32") then select from the Table at right the height of the hanger mounting bolts centerline

EXAMPLE:

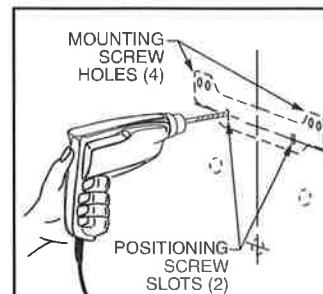
For Comrade:
 $32" - 2\frac{1}{2}" = 29\frac{1}{2}"$

TABLE		
Part #	Model	Distance "A"
0124	Comrade	- 2-1/2" (64mm)
0321	Declyn	- 2-3/4" (70mm)
0355/0356	Lucerne	- 1" (25mm)
0372/0373	Penlyn	- 1/8" (3mm)
4867/4869	Regalyn	+ 2-3/4" (70mm)
9024	Decorum 18-1/4" x 20-1/16"	- 3-11/16" (93mm)
9134	Decorum 20-1/2" x 21-1/4"	- 3-11/16" (93mm)



3 Position hanger according to Step 2, making sure its center is aligned with the waste hole centerline. Mark the hanger screw locations through its mounting holes.

4 Drill pilot holes in positioning screw slots of hanger. **Note:** Some models are supplied with anchor screws, or steel hangers for lavatory installations. Other models are not provided with mounting hardware which can be purchased at local hardware outlets. Lavatories with bottom anchor screw holes should be secured with anchor screws in addition to hangers.

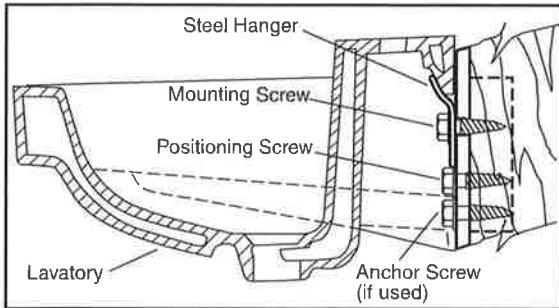


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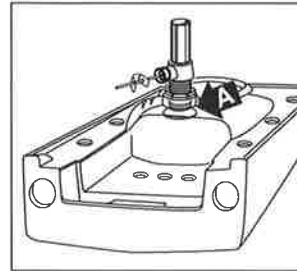
730427-100 Rev. 6 8/19

SAVE FOR FUTURE USE

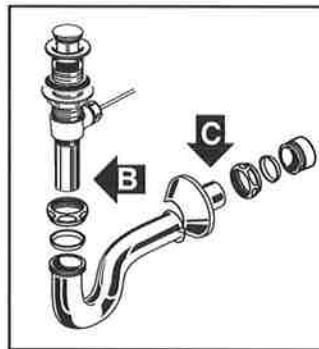
- 5** Affix hanger to wall (hand tighten only). Mount lavatory for positioning, level the deck, and mark bottom anchor screw holes (if applicable). Remove lavatory, tighten the hanger positioning screws and drill pilot holes for anchor screws and 4 mounting screws. Install and tighten the mounting screws.



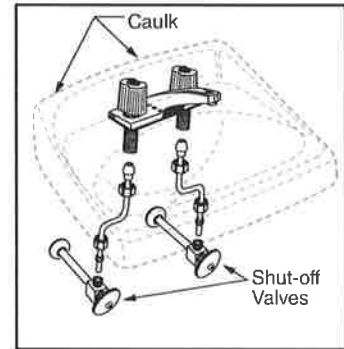
- 6** Following manufacturers instructions, install faucet and drain assembly. (Not included). Be certain to apply a bead of sealing putty on the underside of the drain (Part "A") in order to ensure a watertight seal between the lavatory and drain. Remove excess putty after installing drain on lavatory.



- 7** Return the fitted lavatory to the installed position. Connect trap to drain assembly hand tight to check alignment. It may be necessary to cut off part of the tailpiece (area "B") or part of the horizontal leg of the trap (area "C").

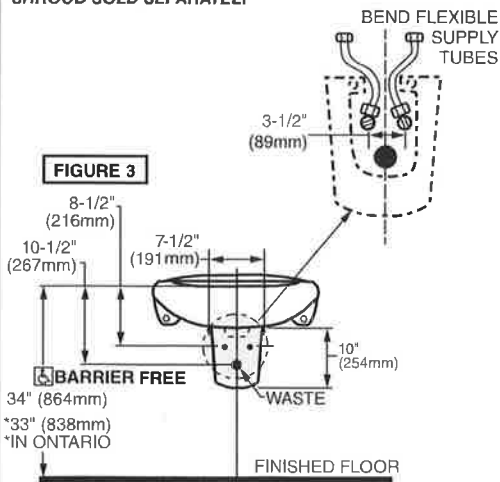
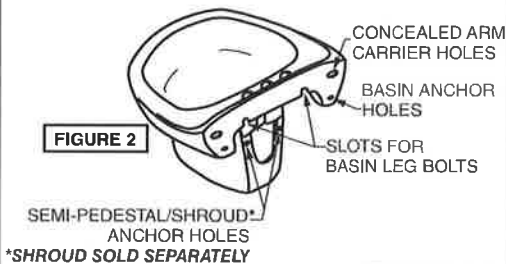


- 8** Secure lavatory on hanger as shown in 5. Insert and tighten anchor screws if applicable. Connect hot and cold supply lines to the shut-off valves. Tighten trap joints for watertight assembly. Apply a bead of caulk around the edge which contacts the wall as shown.



9 Installing Optional Shroud

Position semi-pedestal/shroud under basin and secure to wall using 2" (51mm) screws.



AS AMERICA, INC. ONE YEAR LIMITED WARRANTY

If inspection of this AS America, Inc. ("American Standard") plumbing product, within one year after its initial purchase, confirms that it is defective in materials or workmanship, American Standard will repair or, at its option, exchange the product for a same or similar model.

This limited warranty applies only to the original purchaser and installation of these products. In the event of a limited warranty claim, proof of purchase will be required—save sales receipts.

This limited warranty does not apply to local building code compliance. Since local building codes vary considerably, the purchaser of this product should check with a local building or plumbing contractor to ensure local code compliance before installation.

This limited warranty will be void if the product has been moved from its initial place of installation; if it has been subjected to faulty maintenance, abuse, misuse, accident or other damage; if it was not installed in accordance with American Standard's instructions; or if it has been modified in a manner inconsistent with the product as shipped by American Standard.

American Standard's option to repair or exchange the product under this limited warranty does not cover any labor or other costs of removal or installation including any costs of any surrounding material such as tile or marble. American Standard is not responsible for any other incidental or consequential damages attributed to a product defect or to the repair or exchange of a defective product, all of which are expressly excluded from the warranty. This limited warranty does not cover the extension beyond the duration of this limited warranty of any implied limited warranties, including those of merchantability or fitness for an intended purpose. (Some states or provinces do not allow the exclusion or limitation of implied warranties, so this exclusion may not apply to you.)

This limited warranty gives you specific legal rights. You may have other statutory rights that vary from state to state or from province to province, in which case this limited warranty does not affect such statutory rights.

For service under this warranty, it is suggested that a claim be made through the contractor or dealer from or through whom the product was purchased, or that a service request (including a description of the product model and of the defect) be sent to the following address:

In the United States:
American Standard Brands,
1 Centennial Ave
Piscataway, New Jersey 08854
Attention: Director of Consumer Affairs
For residents of the United States, warranty
information may also be obtained by calling
the following toll free number: (800) 442-1902
www.americanstandard.com

In Canada:
LIXIL Canada ULC
5900 Avebury Road
Mississauga, Ontario
Canada L5R 3M3
Toll Free: (800) 387-0369
www.americanstandard.ca

In Mexico:
Customer Service Manager
AS Maquila, S.A. de C.V.
Via Morelos #330
Col. Santa Clara
Ecatepec 55540 Edo. Mexico
www.americanstandard.com.mx

**THIS WARRANTY IS NOT TRANSFERABLE
FROM ORIGINAL CONSUMER PURCHASER.**



RELIABILITY BUILT IN™

Limited One Year Warranty

T&S warrants to the original purchaser (other than for purposes of resale) that such product is free from defects in material and workmanship for a period of one (1) year from the date of purchase. During this one-year warranty period, if the product is found to be defective, T&S shall, at its options, repair and/or replace it. To obtain warranty service, products must be returned to...

*T&S Brass and Bronze Works, Inc.
Attn: Warranty Repair Department
2 Saddleback Cove
Travelers Rest, SC 29690*

Shipping, freight, insurance, and other transportation charges of the product to T&S and the return of repaired or replaced product to the purchaser are the responsibility of the purchaser. Repair and/or replacement shall be made within a reasonable time after receipt by T&S of the returned product. This warranty does not cover items which have received secondary finishing or have been altered or modified after purchase, or for defects caused by physical abuse to or misuse of the product, or shipment of the products.

Any express warranty not provided herein, and any remedy for Breach of Contract which might arise, is hereby excluded and disclaimed. Any implied warranties of merchantability or fitness for a particular purpose are limited to one year in duration. Under no circumstances shall T&S be liable for loss of use or any special consequential costs, expenses or damages.

Some states do not allow limitations on how long and implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. Specific rights under this warranty and other rights vary from state to state.

P/N: 098-013122-45 Rev.5
Date: 03-09-11
Drawn: TEH
Checked: DMH 03-11-11
Approved: JHB 03-16-11

Installation and Maintenance Instructions

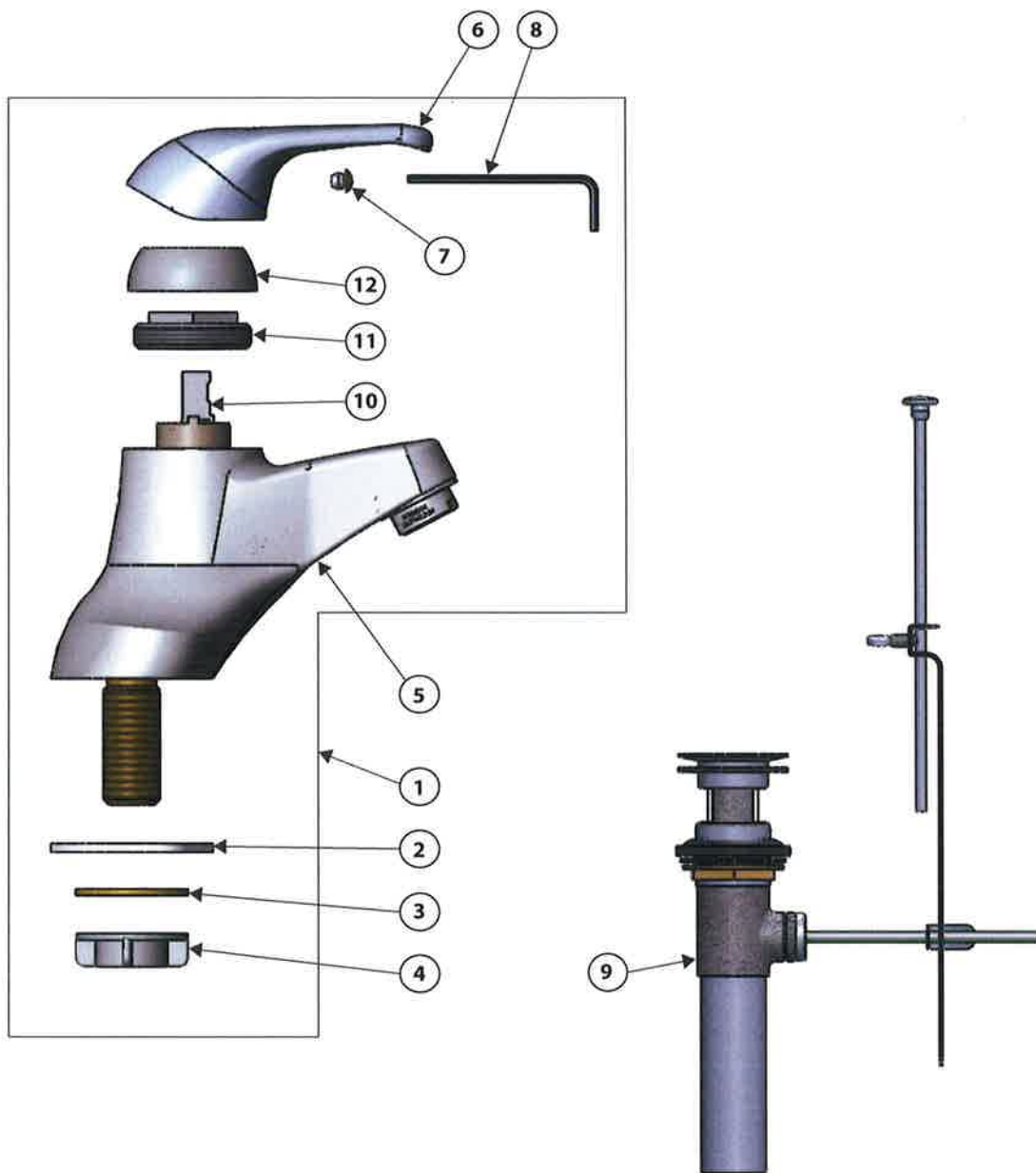


B-2701, B-2703, B-2710 & B-2711 SERIES

SINGLE LEVER FAUCETS (with or without Pop-Up)

Exploded View

B-2710 & B-2711 Series



Part Number Guide

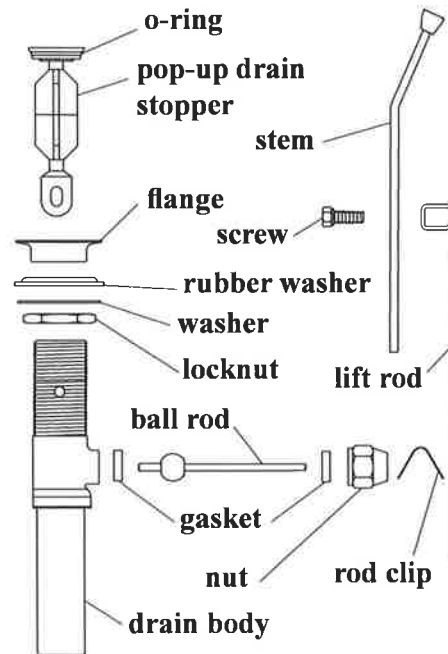
1	Asm, Single Lever Rigid Base Faucet	B-2701
	Asm, Single Lever Rigid Base Faucet w/ 4" Deckplate	B-2703
	Asm, Single Lever Faucet w/ Pop-Up Drain	B-2710
	Asm, Single Lever Faucet	B-2711
2	Gasket, Waterproof	014167-45
3	Lock Washer	000999-45
4	Lock Nut	016673-45
	Kit, Lock Washer and Lock Nut	014166-45
5	Faucet Body	N/A
6	Handle	013113-45
7	Plug	014173-45
8	3/32" or 2.5mm Hex Key (not included)	017267-45
9	Pop-Up Drain	B-0898
10	Cartridge, Metal Stem w/ Temperature Limit Stop	013111-45
11	Retaining Nut	016663-45
12	Retaining Ring	016661-45
13	4" Deckplate	013824-40

General Instructions

Faucet Installation (B-2701 & B-2703)

(Refer to diagram on page 2)

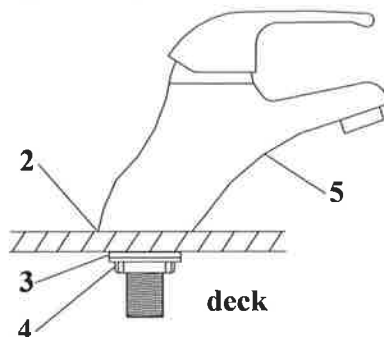
1. Shut off water supply lines. Drill a 1-1/2" diameter hole in countertop where no.5 will be installed.
2. Clean countertop and bottom of no.5. Apply putty to bottom of no.5.
3. If installing no.13, apply putty to bottom contact face of no.13.
4. With no.14 and no.15 removed place hoses and threaded rod at bottom of no.5 through the 1-1/2" diameter hole.
5. Place no.14 and no.15 on threaded rod and tighten.
6. Connect water supply and check for leaks.



Faucet Installation (B-2710 & B-2711)

(Refer to diagram below)

1. Shut off water supply and drain lines. Clean sink surface thoroughly.
2. Install no.5 with no.2 on top of the deck or sink.
3. Place no.3 and no.4 on the shank of no.5 and tighten fully.

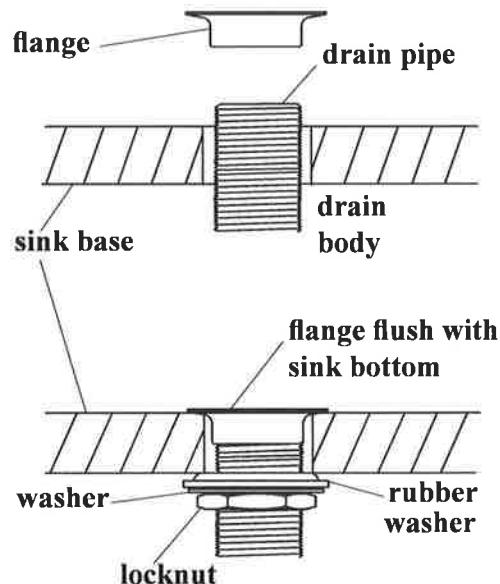


4. Connect water supply lines and check for leaks.

Pop-Up Valve Installation

1. Remove **pop-up drain stopper**, with **o-ring** and **flange**, from **pop-up assembly**.
2. Remove **rod clip**, **lift rod**, **rod guide nut** and **rod ball assembly** from **drain body**.

3. Insert **drain body** from bottom of sink drain hole, reassemble **flange** to **drain body**, tightening as far possible.



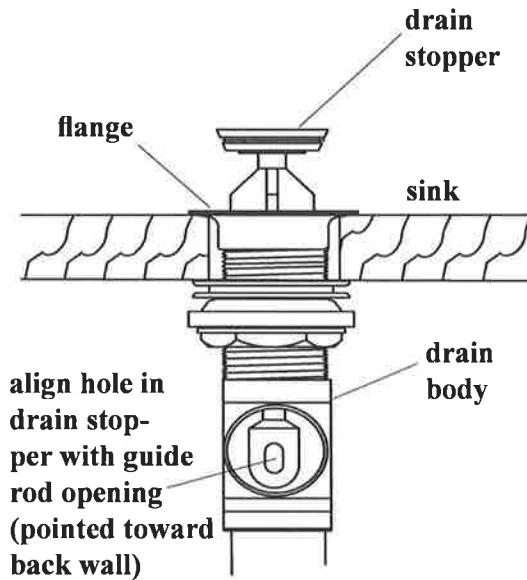
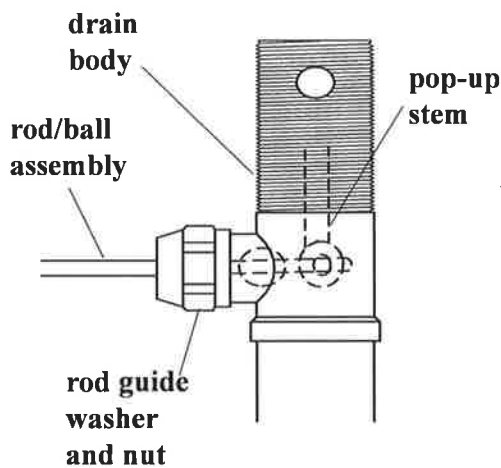
4. Slide **rubber washer** on **drain pipe** up against bottom of sink. Tighten **washer** and **locknut** firmly against base for a tight seal.

General Instructions

5. Replace **pop-up drain stopper** in **drain body**, with 'o'-ring in place, and align stopper hole with guide and opening.

6. Reinsert **rod ball assembly** back into **drain body** and through hole in **drain stopper**.

7. Insert **pop-up stem** through hole in faucet body. Attach **lift rod** to **pop-up stem** by inserting **stem** through hole in **lift rod**. Reassemble **rod guide**, **washer** and **nut**, and tighten firmly.

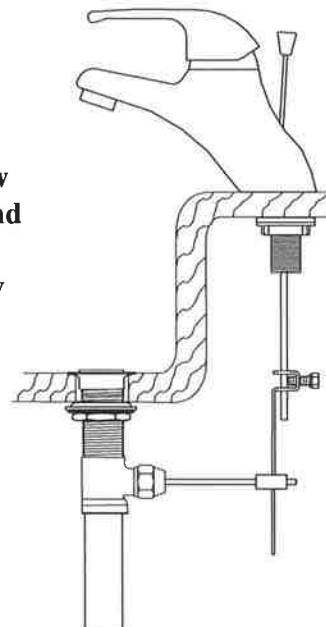


8. Adjust **pop-up stem** to correct height by opening drain, and sliding **lift rod** and **rod clip** at the same time onto **rod/ball assembly**. Readjust **lift rod screw** if necessary, hand-tighten.

9. Make connection to supply lines.

10. Turn on water supply and check for leaks.

Side view
faucet and
pop-up
assembly



General Instructions

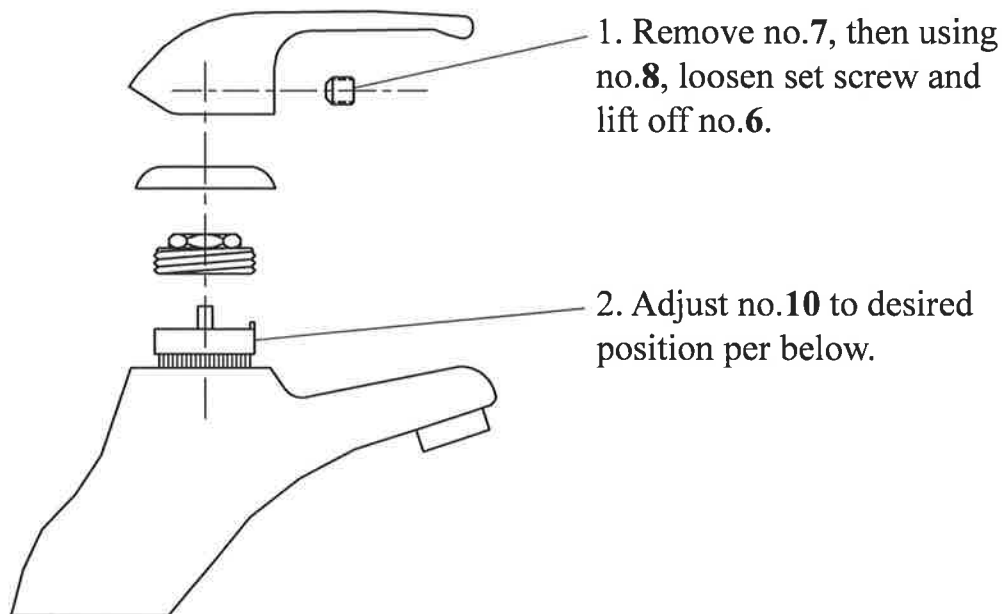
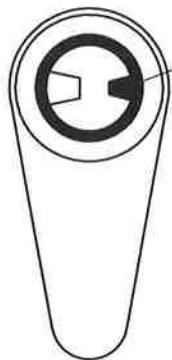
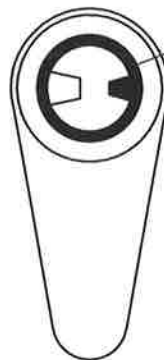


Figure 1



Normal factory set position allows full mixing of hot and cold water.

Figure 2



Using needle nose pliers, carefully lift off the temperature limit stop ring from the cartridge body. Re-set the ring onto the body per Figure 4 or 5.

Figure 3



Place ring into this position to reduce the amount of hot water available. Result: cold to warm water only.

Figure 4



Place ring into this position to reduce the amount of cold water available. Result: warm to hot water only.

Figure 5

Maintenance:

1. To change no.10, remove no.7 by hand.
2. Insert no.8 into hole of no.6 and loosen set screw of no.6. Remove no.6.
3. Unscrew no.12 and remove.
4. Unscrew no.11 and remove.
5. Remove no.10 and replace with new no.10.
6. Replace no.11, no.12 and no.6 and tighten set screw.
7. Replace no.7.

Mantenimiento:

1. Para cambiar la parte No.10, remueva a mano la parte No.7.
2. Ensarte la parte No.8 en el hueco de la parte No.6 y afloje el tornillo presión de la parte No.6. Remueva la parte No.6.
3. Destornille la parte No.12 y remuévala.
4. Destornille la parte No.11 y remuévala.
5. Remueva la parte No.10 y reemplace con una parte nueva No.10.
6. Reemplace la parte No.11, No.12 y la parte No.6. Apriete el tornillo de presión.
7. Reemplace la parte No.7.



**B-2730 & B-2731
Single Lever
Faucets**

T&S BRASS AND BRONZE WORKS, INC.

A firm commitment to application-engineered plumbing products

2 Saddleback Cove, P.O. Box 1088
Travelers Rest, SC 29690
Phone: (864) 834-4102
Fax: (864) 834-3518
E-mail: tsbrass@tsbrass.com

T & S Brass-Europe
'De Veenhoeve'
Oude Nieuwveenseweg 84
2441 CW Nieuwveen
The Netherlands



RELIABILITY BUILT IN™



INSTALLATION & SERVICE INSTRUCTIONS MODEL 170A-LF

Bulletin G-170A
October 2020

170A-LF 3/8" COMPRESSION

ASSE 1070 CERTIFIED

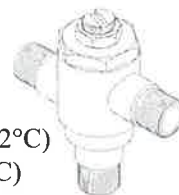


WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer. For more information, go to www.cdph.ca/Programs/CID/DCDC/Pages/Immunization/VPD/Pages/Lead.aspx

NOTE: DO NOT USE THREAD SEALANT ON COMPRESSION CONNECTIONS

PERFORMANCE:

- Maximum Pressure: 125 PSI (8.6 BAR)
- Maximum Hot water temperature: 180°F (82°C)
- Hot water inlet temperature range: 120-180°F (49-82°C)
- Cold water inlet temperature range: 33-80°F (1-27°C)
- Outlet temperature range: 95-120°F (35-49°C)
- Minimum flow certified to ASSE 1070: 0.25 GPM
- Maximum flow: 4 GPM



WARNING!!



WATER TEMPERATURES IN EXCESS OF 110°F (43°C) MAY CAUSE SCALDING, SEVERE INJURY, OR DEATH!! IMPORTANT!

This thermostatic water mixing valves is NOT pre-set and can be adjusted to deliver water at temperatures exceeding 110°F (43°C). After installation, the installer must check the outlet water temperature and adjust the temperature setting to ensure delivery of a safe water temperature not exceeding 110°F (43°C).

Periodic inspection and maintenance is required

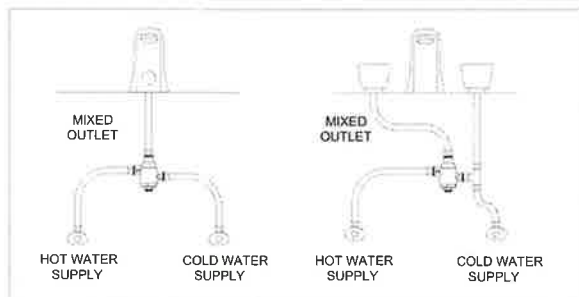
Regular inspection of the valve and the outlet temperature are required. Cleaning at a minimum of annually will help assure proper function of the mixing valve. Frequency of cleaning and inspection of the outlet temperature depends upon local water quality conditions.

1. Valve should be installed where it can be easily cleaned, adjusted or repaired. Leonard recommends that shutoffs are installed on the inlets to the mixing valve.
2. Inlets are furnished with 3/8" compression connections. If using copper tubing, do NOT extend tubing more than 3/16" beyond the compression ferrule. **DO NOT use thread sealant.**
3. Tighten compression nuts by hand, then tighten only 1/4 turn, overtightening will cause leaks and possibly crush checks.
4. Flush the hot and cold water lines before installing mixing valve.
5. "H" and "C" are clearly marked on the inlets, install hot water line to inlet marked "H" and cold water line to the inlet marked "C". Valve can be installed in any position.
6. Valve is NOT pre-set and must be set after installation. Run water for at least 1-2 minutes to allow water to stabilize.
7. Loosen locknut on stem, turn stem (screwdriver adjustment) counter-clockwise (stem coming out of valve) for hotter and clockwise (stem going into valve) for colder outlet temperature. Do not force the valve to below 90° F.
8. Tighten down the locknut to prevent unauthorized adjustment.
9. Verify the outlet temperature is set to the correct temperature.

TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
Cannot reach desired outlet temperature	Valve is full of debris or Inlets supplies are reversed	Flush valve with water Pipe hot to hot inlet, cold to cold inlet
Flow rate reduced or fluctuating	Inlet screen filled with debris	Check inlet screens for debris
No flow from outlet	Hot or Cold water supply failure	Restore Hot and Cold water inlet supplies
No flow from outlet	Inlet supply tube extending more than 3/16" beyond ferrule	Shorten tube and replace inlet checks
Hot water flows into Cold water supply or vice versa	Check valve has debris, inlets were not properly flushed	Replace inlet check valves and screens
Outlet temperature not warm enough	Hot water supply not 10° F above required outlet temperature (5° F with equal pressures)	Increase Hot water inlet temperature

INSTALLATION



170A - BP ONLY



PACKING
PART # 7539



CHECK KIT - KIT 4/108
INCLUDES CHECKS
AND SCREENS

LIMITED WARRANTY

Leonard Valve Company warrants the original purchaser that products manufactured by them (not by others) will be free from defects in materials and workmanship under normal conditions of use, when properly installed and maintained in accordance with Leonard Valve Company's instructions, for a period of one year from date of shipment. During this period the Leonard Valve Company will at its option repair or replace any product, or part thereof, which shall be returned, freight prepaid, to the Leonard factory and determined by Leonard to be defective in materials or workmanship. There are no warranties, express or implied, which extend beyond the description contained herein. There are no implied warranties of merchantability or of fitness for a particular purpose. In no event will Leonard be liable for labor or incidental or consequential damages. Any alteration or improper installation or use of the product will void this limited warranty.

1360 Elmwood Avenue, Cranston, RI 02910 USA

Phone: 401.461.1200 Fax: 401.941.5310

Email: info@leonardvalve.com

Web Site: <http://www.leonardvalve.com>

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a Bead Industries, Inc. company

Warranty, Terms and Return Policies

TERMS: All sales are subject to credit approval. Terms are 2% ten days – net 30.

RETURNED GOODS: Requests for returning purchased items are subject to factory approval.

A Returned Goods Authorization (RGA) must be obtained from the factory prior to any return. Returned merchandise must be in their original cartons, listed in our current List Price Sheet and in clean saleable condition.

Restocking charge:

- Material that was shipped within 18 months of the return request is subject to a 25% restocking charge.
- Material that was shipped more than 18 months of the return request but less than 3 years is subject to a 50% restocking charge.
- Material returned more than 18 months after it was shipped is not subject to any stock rotation agreement.
- Material that was shipped more than 3 years before the return request is not returnable.
- Invoice dates as well as dates on packaging will control.

The restocking charge may be reduced if a new order of equal value is placed at the time the RGA is requested:

- 25% may be reduced to 15%
- 50% may be reduced to 35%

MINIMUM RETURN POLICY:

Return requests less than \$200 net will be charged \$50 processing fee in lieu of any restocking charge.

INVOICE:

We reserve the right to invoice all merchandise at prices in effect at time of shipment.

NO MINIMUM ORDER:

Orders less than \$200 list will be invoiced at list price less 35% (.65 multiplier).

McGuire Manufacturing Co., Inc.

60 grandview court • cheshire • ct • 06410

tel 203-699-1801 • fax 203-699-1813

mcguiremfg.com

customerservice@mcguiremfg.com

FREIGHT:

We will pay freight on shipments within the continental United States when the order (pre-tax) totals more than \$2200 net. We select the method of shipment and carrier when we pay the freight.

Limited Warranty Information

McGuire Manufacturing Co., Inc. (McGuire) warrants its product to be free from defects in material and workmanship for the period indicated below by product type measure from the date of purchase:

ITEM	WARRANTY PERIOD
Brass products	15 years
ProWrap	5 years
Eco P-Traps, Eco Strainers and Valve Strainers	1 year
Stainless Steel products	1 year
Lite Commercial P-Traps	1 year

McGuire's sole responsibility will be to replace, at no additional charge, any product which proves to be defective within the applicable warranty period. Shipping costs for product located outside the continental United States will be the sole responsibility of the customer. Duties and taxes, if levied, shall be the sole responsibility of the customer.

The above Limited Warranty shall not apply if the product has been damaged due to abuse, misuse, improper installation, accident, or other cause not within McGuire's control.

THE ABOVE LIMITED WARRANTY IS THE SOLE AND EXCLUSIVE WARRANTY. ALL OTHER WARRANTIES ARE DISCLAIMED, WHETHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL MCGUIRE BE RESPONSIBLE OR LIABLE FOR ANY SPECIAL INCIDENTAL, OR CONSEQUENTIAL DAMAGES OR LOSSES ARISING FROM THE USE OF THIS PRODUCT.

McGuire may, at its option, alter the contents of this LIMITED WARRANTY at anytime. These changes will affect products manufactured after the effective date of this policy.

McGuire Manufacturing Co., Inc.

60 grandview court • cheshire • ct • 06410

tel 203-699-1801 • fax 203-699-1813

mcguiremfg.com

customerservice@mcguiremfg.com

P-3

PRODUCT SPECIFICATIONS

Elkay Lustertone™ Classic Stainless Steel 19-1/2" x 19" x 5-1/2" Single Bowl Drop-in ADA Sink. Sink is manufactured from 18 gauge 304 Stainless Steel with a Lustrous Satin finish, Rear Center drain placement, and Bottom only pads.

Installation Type:	Drop-in
Material:	304 Stainless Steel
Finish:	Lustrous Satin
Gauge:	18
Sound Deadening:	Bottom only pads
Number of Bowls:	1
Sink Dimensions:	19-1/2" x 19" x 5-1/2"
Bowl 1 Dimensions:	16" x 13-1/2" x 5-3/8"
Drain Size:	3-1/2" (89mm)
Drain Location:	Rear Center
Minimum Cabinet Size:	24"
Mounting Hardware:	Part # 64090012 included for countertops up to 3/4" (19mm) thick
Template Included:	No
Cutout Template #:	1000001259

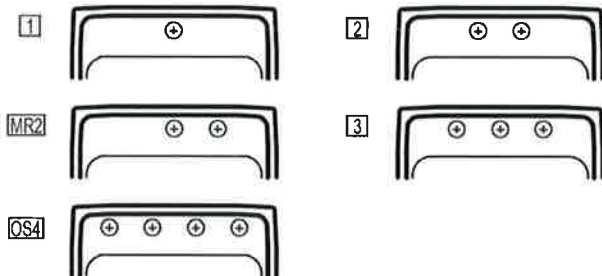
Template is available for download at elkay.com. CAD software will be required to open the template.

Cutout Dimensions for Drop-in Installation:

18-7/8" x 18-3/8" (479mm x 467mm) with 1-1/2" (38mm) corner radius

Hole Drilling Configurations:

1-1/2" (38mm) Diameter Faucet Holes on 4" (102mm) Centers



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.

KBB READERS' CHOICE AWARDS 2023



Product Compliance:

ADA & ICC A117.1
ASME A112.19.3/CSA B45.4
Buy American Act



Sinks are listed by IAPMO® as meeting the applicable requirements of the Uniform Plumbing Code®, International Plumbing Code®, and National Plumbing Code of Canada.



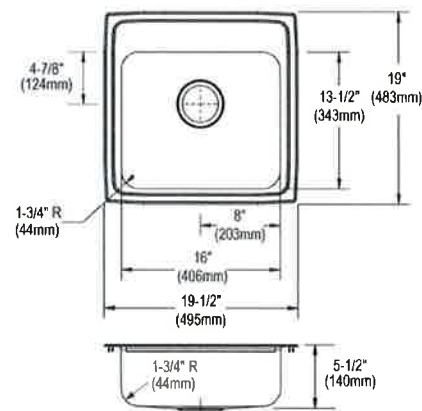
Complies with ADA & ICC A117.1 accessibility requirements when installed according to the requirements outlined in these standards.

[Clean and Care Manual \(PDF\)](#)

[Installation Instructions \(PDF\) - 1000005236](#)

[Warranty \(PDF\)](#)

Similar models are available with: 4" 4-1/2" 5" 6" and 6-1/2" depths, CuVerro antimicrobial copper, Quick-Clip Mounting System



PART: _____ QTY: _____

PROJECT: _____

CONTACT: _____

DATE: _____

NOTES: _____

APPROVAL: _____

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.

PRODUCT SPECIFICATIONS

Elkay Lustertone™ Classic Stainless Steel 19-1/2" x 19" x 10-1/8"
Single Bowl Drop-in Laundry Sink. Sink is manufactured from 18 gauge
304 Stainless Steel with a Lustrous Satin finish, Center drain
placement, and Sides and Bottom pads.

Installation Type:	Drop-in
Material:	304 Stainless Steel
Finish:	Lustrous Satin
Gauge:	18
Sound Deadening:	Sides and Bottom pads
Number of Bowls:	1
Sink Dimensions:	19-1/2" x 19" x 10-1/8"
Bowl 1 Dimensions:	16" x 13-1/2" x 10"
Drain Size:	3-1/2" (89mm)
Drain Location:	Center
Minimum Cabinet Size:	24"
Mounting Hardware:	Part # 64090012 included for countertops up to 3/4" (19mm) thick
Template Included:	No
Cutout Template #:	1000001259

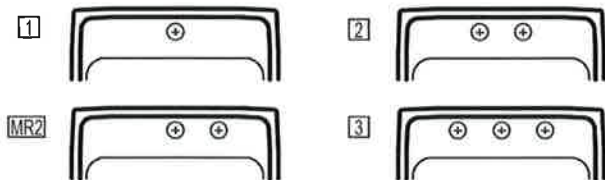
Template is available for download at elkay.com. CAD software will be required to open the template.

Cutout Dimensions for Drop-in Installation:

18-7/8" x 18-3/8" (479mm x 467mm) with 1-1/2" (38mm) corner radius

Hole Drilling Configurations:

1-1/2" (38mm) Diameter Faucet Holes on 4" (102mm) Centers



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.

KBB READERS' CHOICE AWARDS 2023



Product Compliance:

ASME A112.19.3/CSA B45.4
Buy American Act



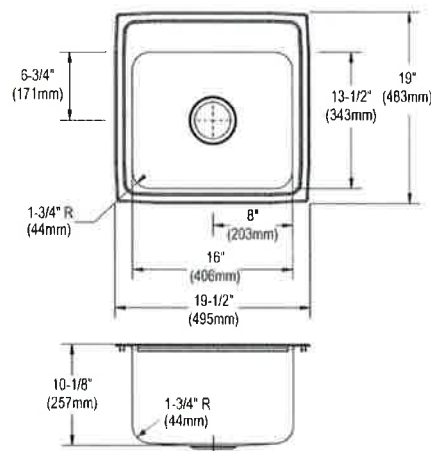
Sinks are listed by IAPMO® as meeting the applicable requirements of the Uniform Plumbing Code®, International Plumbing Code®, and National Plumbing Code of Canada.

[Clean and Care Manual \(PDF\)](#)

[Installation Instructions \(PDF\) - 1000005236](#)

[Warranty \(PDF\)](#)

Similar models are available with: Quick-Clip Mounting System, 316 type steel, CuVerro antimicrobial copper, Perfect Drain



PART: _____ QTY: _____
PROJECT: _____
CONTACT: _____
DATE: _____
NOTES: _____
APPROVAL: _____

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Attention Installer:

- Elkay recommends that drop-in sinks be installed by a professional, experienced installer.
- Elkay is not responsible for the sink or countertop if damaged during installation.
- Metal edges may be sharp. Use caution when handling.
- Follow all local plumbing and building codes.
- Inspect sink for damage prior to beginning installation.

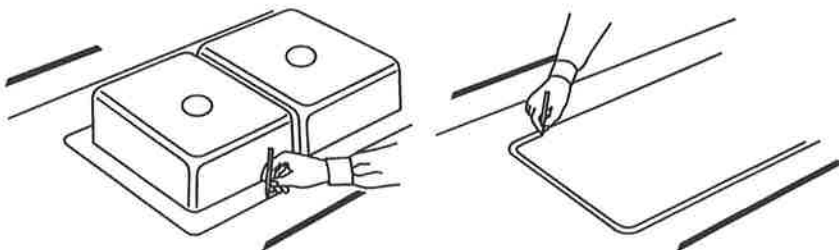
Required Tools (not included)**Installation**

WARNING: Always wear safety goggles and gloves when using power tools or handling the sink to prevent personal injury.

- 1** Position the sink upside down on the countertop.

Trace a line around the edge of the sink.

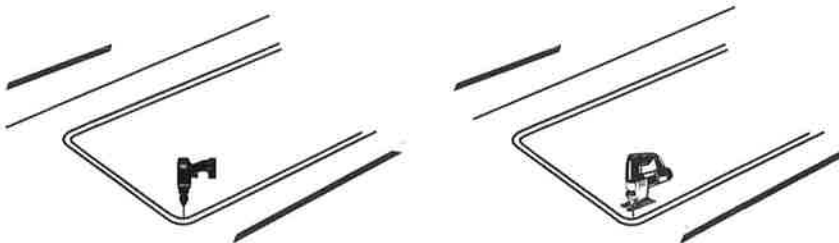
Draw a line 5/16" inside of the outline of the sink.



- 2** Drill a pilot hole in all four corners of the inside line.

Use a saber or jig saw to cut on the inside line.

Place a support underneath the cutout portion of the countertop to prevent it from falling during cutting.



- 3** Apply silicone caulk (not included) around the cutout in the countertop surface.

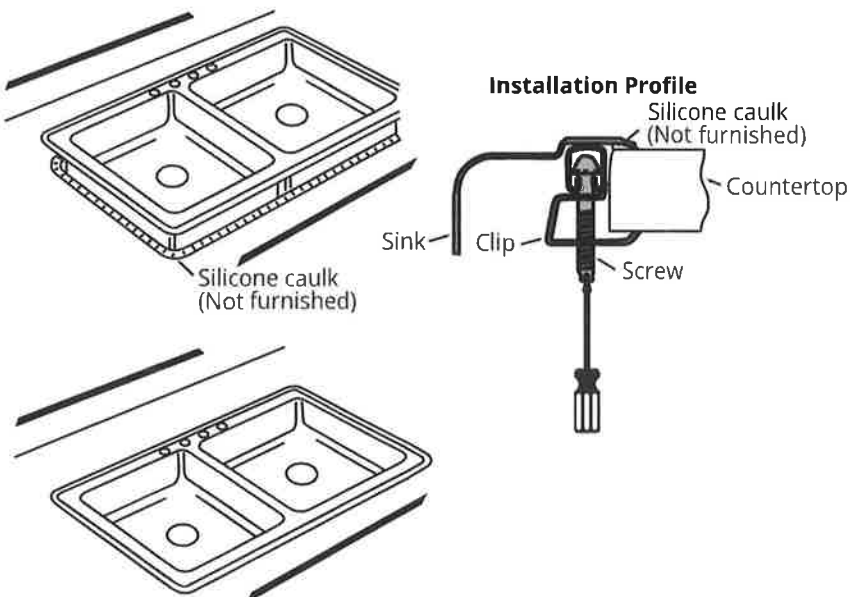
Carefully lower the sink into the cutout.

Assemble the clips and screws.

From the underside, place a clip in the center along each side and hand tighten to hold sink in place. Fasten the remaining clips along the edges and space them approximately 3" from each end, and equally along the front, back, and sides. For countertops thicker than 3/4", clips can be spaced as close as 1-1/2".

From the top, check the seal between the sink edge and countertop. Lightly tighten clips evenly with a screwdriver until the sink is tight to the countertop. Do not over tighten.

Wipe away any excess caulk with a rag.





Elkay Stainless Steel Sink Care and Cleaning

With proper care and maintenance, your Elkay stainless steel sink will give you a lifetime of service. Below are the suggestions for the care and cleaning of your Elkay sink.

General Cleaning

It is recommended to clean Elkay sinks daily to avoid build-up of soap or mineral deposits, as these tend to have an adverse effect on the appearance of the product. For daily cleaning use an ordinary mild detergent and soft cloth to rinse and dry the sink. Allowing water or cleaners to evaporate on metal will negatively impact the look of the sink. To avoid this, it is important to dry the sink after each use.

- To avoid unwanted build-up, it is recommended to dry your sink after each use.
- Soft abrasive cleaners may be used when necessary (Blue Scotch-Brite Pads). Strong abrasive cleaners will scratch and dull the surface (Green Scotch-Brite Pads).

Do's

- It is recommended the use of an Elkay bottom grid or rinsing basket to protect your sink.
- Run cold water when pouring boiling water into sink.
- It is recommended that you clean your sink prior to first use.

Do Not's

- Avoid storing open containers of household cleaners and chemicals containing chloride such as bleach, acid, and drain cleaners or toilet bowl cleaner beneath the sink. Vapor emission from the chlorides can cause corrosion and pitting to the exposed stainless steel and other metals including faucet water supply lines.
- Do not use dish mats as these can trap soap and dirt making sink maintenance more time-consuming and cultivate harmful bacteria.
- Do not leave standing water in your sink, especially if the water contains anything that could stain the sink (i.e. coffee or tea).

Stainless Steel

Light scratches are normal for stainless steel sinks; over time they will blend into the uniform finish pattern.

- Steel soap pads, steel wool, or wire brushes should never be used; particles can adhere to a stainless steel sink surface and will eventually rust. If an abrasive pad must be used Elkay recommends Scotch-Brite Non-Scratch (blue Scotch-Brite pad).
- Do not use cleaners containing ammonia, bleach, or other harsh chemicals. Chemicals containing chlorides (bleach) are particularly damaging to stainless. If used, rinse the surface immediately to prevent corrosion.

Recommended Cleaning Products:

- Bar Keeper's Friend Soft Cleanser
- Stainless steel cleaner & polish
- Or any mild detergent



Elkay Stainless Steel Sink Care and Cleaning

Success with cleaners are dependent on the quality of the water being used. Failure to follow care and cleaning will void your warranty. For additional information, please visit elkay.com.

Home Remedies

- For major stains or grime on your sink, a mixture of a half a cup of white vinegar and a half cup of water will help. Dip a cloth into the solution and rub away the grime or stain. The solution should then be rinsed off and dried to prevent damage to your sink's finish.
- Another solution for major grime or stains, is a small amount of baking soda and water on a toothbrush. This should remove any nasty stains. Again the solution should then be rinsed off and dried to prevent damage to the finish of your sink.

DO NOT allow any part of your Elkay sink to soak in either of the above mixtures. It is also recommended to test the above mixtures on an unseen part of your faucet to see what affect it has to the finish of your sink.



Elkay Residential Stainless Sinks Limited Warranty

Elkay warrants to the original purchaser of an Elkay stainless steel sink that Elkay will, at its option, replace or repair, without charge, such product if it fails due to a manufacturing defect during normal residential use during the first year from the date of purchase. Product replacement does not include transportation cost or labor installation cost. This warranty covers only stainless steel self-rimming drop-in sinks installed in a conventional countertop surface and stainless steel undermount sinks installed in a conventional solid surface countertop and applies to residential installations only. Elkay reserves the right to examine product in question and its installation prior to replacement.

Waste fittings and accessories are warranted for 1 year from the date of purchase.

Other Warranty Conditions on Sinks

Our warranty does not cover product failure or damage caused by the use of optional accessories, abusive treatment, misuse, environmental factors, normal wear including dents and scratches, improper care and cleaning, use of aggressive and abrasive cleaners, damage due to handling or failure to follow the recommended procedures for installation, care and maintenance as detailed in the installation and care guide provided with every sink. This warranty is extended only to the original consumer purchaser of the product.

This warranty does not cover shipping costs, labor costs, or any other charges for such items as installation or replacement of the sink, diagnosis or replacement of any faucet or component part, or any other expense or loss. This warranty does not cover obsolete, discontinued nor display products, whether such items are purchased at discount outlets and/or online or sold on clearance or close out.

All incidental or consequential damages are specifically excluded. No additional warranties, express or implied are given, including but not limited to, any implied warranty of merchantability or fitness for a particular purpose.

Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

The above protection will continue for 1 year.

To Obtain Service Under Warranty

1. Write to: Elkay Manufacturing Company
Attention: Consumer Care
1333 Butterfield Road, Suite 200
Downers Grove, Illinois 60515
2. Include a letter containing the following information:
 - a. Date of purchase and installation.
 - b. Proof of Purchase (copy of original dated invoice)
 - c. Description of nature of defect.
 - d. Model number or description of model and/or component part if possible.



RELIABILITY BUILT IN™

Limited One Year Warranty

T&S warrants to the original purchaser (other than for purposes of resale) that such product is free from defects in material and workmanship for a period of one (1) year from the date of purchase. During this one-year warranty period, if the product is found to be defective, T&S shall, at its options, repair and/or replace it. To obtain warranty service, products must be returned to...

***T&S Brass and Bronze Works, Inc.
Attn: Warranty Repair Department
2 Saddleback Cove
Travelers Rest, SC 29690***

Shipping, freight, insurance, and other transportation charges of the product to T&S and the return of repaired or replaced product to the purchaser are the responsibility of the purchaser. Repair and/or replacement shall be made within a reasonable time after receipt by T&S of the returned product. This warranty does not cover items which have received secondary finishing or have been altered or modified after purchase, or for defects caused by physical abuse to or misuse of the product, or shipment of the products.

Any express warranty not provided herein, and any remedy for Breach of Contract which might arise, is hereby excluded and disclaimed. Any implied warranties of merchantability or fitness for a particular purpose are limited to one year in duration. Under no circumstances shall T&S be liable for loss of use or any special consequential costs, expenses or damages.

Some states do not allow limitations on how long and implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. Specific rights under this warranty and other rights vary from state to state.

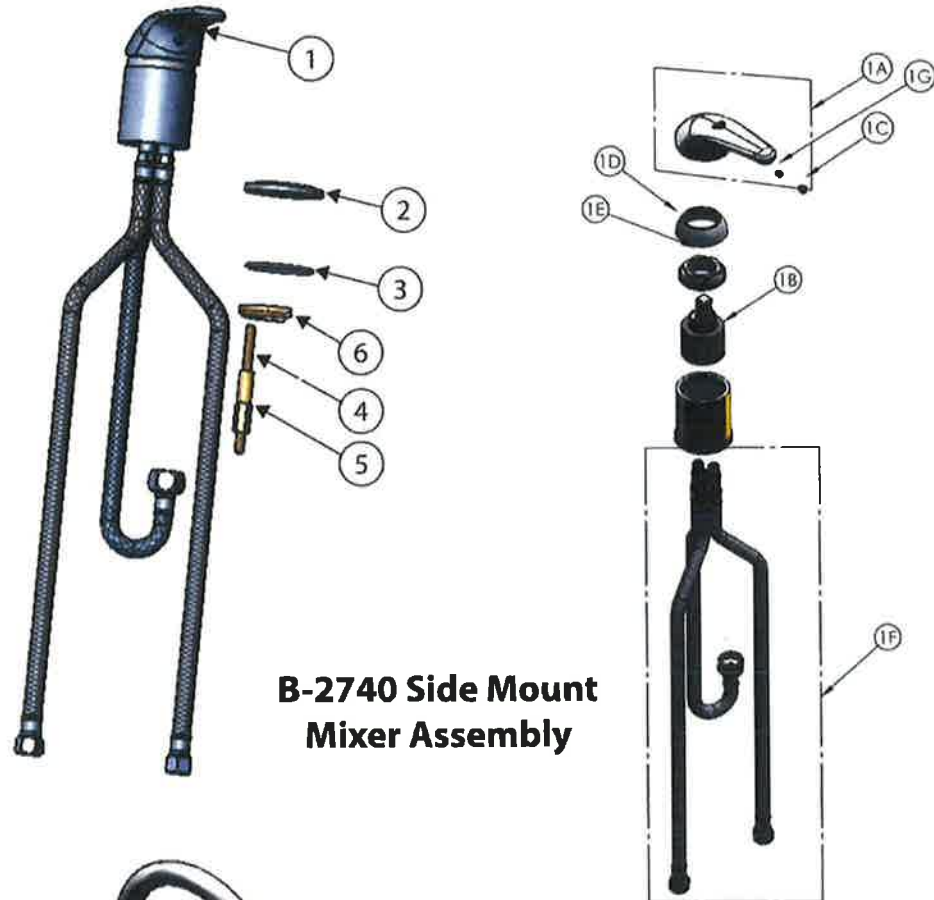
P/N: 098-016721-45 Rev. 0
Date: 02-19-08
Drawn: TEH
Checked: ARH 04-08-08
Approved: JHB 04-09-08

Installation and Maintenance Instructions

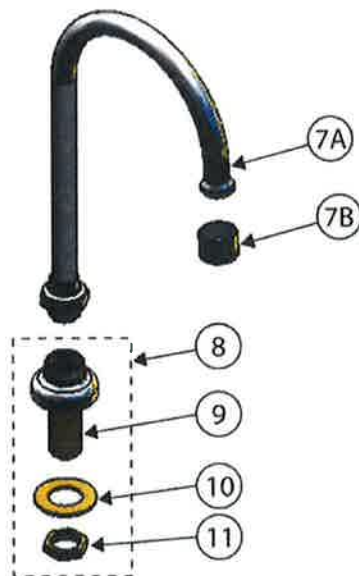


B-2740 SERIES SINGLE LEVER FAUCETS (with or without Sidespray)

Exploded View



B-2740 Side Mount Mixer Assembly



**Gooseneck Assembly for
B-2741, B-2742 & B-2746**

* Some items are listed for instructional purposes and may not be sold as separate parts.

Part Number Guide

B-2740 Side Mount Mixer Assembly

1	Body Base w/ Supply Lines & Outlet	*
A	Handle Kit	013113-45
B	Cartridge	013080-45
C	Index, Temperature	014173-45
D	Trim Ring	016661-45
E	Locking Nut	016663-45
F	Inlet & Outlet Hose	013537-45
G	Set Screw	016675-45
2	Deck Mounting Ring	*
3	Deck Mounting Ring O-Ring	*
4	Threaded Locking Rod	*
5	Brass Lock Nut	*
6	Locking C-Ring	*

Gooseneck Assembly for: B-2741 B-2742 B-2746

7A	Gooseneck	BL-5570-02	133X	B-2403
7B	Aerator	B-0199-07	B-0199-06	B-0199-01
8	Center Body Assembly	B-0430	B-0431	B-0431
9	Center Body Shank	*	*	*
10	Washer	000999-45	000999-45	000999-45
11	Nut	002954-45	002954-45	002954-45

Gooseneck Assembly for: B-2743 B-2744 B-2749

7A	Gooseneck		000398-40	
7B	Aerator	B-0199-06	B-0199-06	
8	Center Body Assembly	B-0431	B-0431	009435-40
9	Center Body Shank	*	*	*
10	Washer	000999-45	000999-45	000999-45
11	Nut	002954-45	002954-45	002954-45
12	Set Screw		001486-45	001486-45
13	Valve Body			*
14	Diverter Valve	002338-45	002338-45	002338-45
15	Guide Assembly	001496-45	001496-45	B-KF
16	Shank	*	*	N/A
17	Combo Nut Washer	*	*	N/A
18	Side Spray Assembly			B-0101
	Side Spray, 4'	001495-45	001495-45	
	Side Spray, 7'	013659-45	013659-45	

General Instructions

Note: An adjustable wrench may be used instead of an open end wrench.

Installation of Side Mount Mixer (No.1) B-2740

1. Shut off water supply and drain lines. Drill a hole approximately 1-1/2" diameter in countertop where installing no.1 (side mount body).
2. Take no.1 (side mount body) and no.2 (mounting ring) (see note) and place no.2 (mounting ring) on top of counter over 1-1/2" diameter hole. Place hoses of no.1 (side mount body) through hole and place no.1 (side mount body) into no.2 (mounting ring). **Note: No.3 (mounting o-ring) should be installed in no.2 (mounting ring).**
3. From below counter, thread no.4 (threaded locking rod) into hole in bottom of no.1 (side mount body).
4. Install no.6 (locking c-ring) and then no.5 (brass lock nut) onto no.4 (threaded locking ring). Hex of no.5 (brass lock nut) should be at bottom for ease of installation. Tighten no.5 (brass lock nut) with a 3/8" wrench until no.6 (locking c-ring) is snug against underside of countertop. Note that no.5 (brass lock nut) and no.6 (locking c-ring) can adjust to counter thickness up to two inches.
5. Connect flexible supply lines (3/8" female compressions) to water supply. Note stickers on supply lines, with red sticker indicating hot and blue sticker cold.

Installation of Gooseneck Assembly, included in B-2741, B-2742 & B-2746 Assemblies:

1. With water supply and drain lines shut off from step 1 above, drill a 7/8" diameter hole in countertop where no.8 (center body assembly) is to be installed. The hole should be no more than 6" maximum from center of hole for side mount mixer in step 1. For rigid gooseneck assembly, no.8 (center body assembly) and no.7 (gooseneck) are one assembly. For the swivel gooseneck assembly, no.8 (center body assembly) and no.7 (gooseneck) are separate assemblies.
2. Remove no.11 (nut) and no.10 (washer) before placing no.9 (center body shank) of no.8 (center body assembly) through hole above countertop. After installing no.8 (center body assembly) in 7/8" diameter hole, put no.10 (washer) and no.11 (nut) back on no.9 (center body shank) below countertop and tighten with 1" wrench until tight with countertop.
3. Connect outlet hose from side mount mixer to inlet of no.9 (center body shank). Tighten with 15/16" wrench.
4. **FOR SWIVEL ONLY:** Install no.7 (gooseneck) by screwing nut of no.7 (gooseneck) onto top of no.9 (center body shank). Install grease from packet on swivel o-ring prior to screwing on no.9 (center body shank). Tighten with 1-1/8" wrench.
5. Open water supply and check for leaks. Lift handle on side mount mixer and check for leaks.

General Instructions

Installation of Gooseneck w/ Side Spray Assembly, Included in B-2743, B-2744 & B-2749 Assemblies:

1. With water supply and drain lines shut off from step 1 in Installation of Gooseneck Assembly, drill a 7/8" diameter hole in countertop where no.8 (center body assembly) is to be installed. The hole should be no more than 6" maximum from center of hole for side mount mixer. For rigid gooseneck assembly no.8 (center body assembly) and no.7 (gooseneck) are one assembly. For the swivel gooseneck assembly no.8 (center body assembly) and no.7 (gooseneck) are separate assemblies.
2. Remove no.12 (set screw) from no.7 (gooseneck) with flat head screw driver. Carefully twist and pull no.7 (gooseneck) from no.8 (center body assembly). No.14 (diverter valve) should be visible in top of no.9 (center body shank) of no.8 (center body assembly). With flat head screw driver, turn screw in top of no.14 (diverter valve) counter clockwise to loosen valve. Remove no.14 (diverter valve) from top of no.8 (center body assembly) and set aside. With 3/4" wrench use flats on no.9 (shank) to remove no.8 (center body assembly) from no.13 (valve body). Remove no.11 (nut) and no.10 (washer) before placing no.9 (center body shank) of no.8 (center body assembly) through hole above countertop. After installing no.8 (center body assembly) in 7/8" diameter hole, put no.10 (washer) and no.11 (nut) back on no.9 (center body shank) below countertop and tighten with 1" wrench until tight with countertop.
3. Reinstall no.13 (valve body) below countertop on bottom of no.9 (center body shank).
4. With screwdriver reinstall no.14 (diverter valve) above countertop in no.8 (center body assembly).
5. Connect outlet hose from side mount mixer to inlet of no.13 (valve body). Tighten snug with 15/16" wrench.
6. Install no.15 (guide assembly) for no.18 (side spray assembly) by removing no.17 (combo nut washer) from no.15 (guide assembly). Place no.16 (shank) with bonnet through hole in countertop for no.18 (side spray assembly). Thread lock nut & washer on bottom of no.16 (shank) of no.15 (guide assembly) beneath countertop. Thread tightly.
7. Place no.18 (side spray assembly) hose (1/8" NPT) fitting through no.15 (guide assembly) on top of countertop until spray handle rests in no.15 (guide assembly). Below countertop install no.18 (side spray assembly) hose fitting into bottom of no.13 (valve body) with 3/8" wrench.
8. **FOR SWIVEL ONLY:** Install no.7 (gooseneck) by installing gooseneck onto top of shank of no.8 (center body assembly) sticking out top of counter. Install grease from packet on swivel o-rings prior to installing on no.9 (center body shank). Install set screws in gooseneck base.
9. Open water supply and check for leaks. Lift handle on side mount mixer and check for leaks. Use side spray and check for leaks.

RELATED T&S BRASS PRODUCT LINE



B-2710
Single Lever Faucet

B-2711
Single Lever Faucet
with Pop-Up Drain Assembly



B-2730
Single Lever Mixing
Faucet with Sidespray

B-2731
Single Lever Mixing
Faucet less Sidespray

T&S BRASS AND BRONZE WORKS, INC.

A firm commitment to application-engineered plumbing products

2 Saddleback Cove, P.O. Box 1088
Travelers Rest, SC 29690
Phone: (864) 834-4102
Fax: (864) 834-3518
E-mail: tsbrass@tsbrass.com

T & S Brass-Europe
'De Veenhoeve'
Oude Nieuwveenseweg 84
2441 CW Nieuwveen
The Netherlands





RELIABILITY BUILT IN™

EasyInstall

**8" FIXED CENTER
CONCEALED
WIDESPREAD
B-2300, B-2800,
B-2900 SERIES**
Patent # 7,472,434



Installation and Maintenance Instructions

Limited One Year Warranty

T&S warrants to the original purchaser (other than for purposes of resale) that such product is free from defects in material and workmanship for a period of one (1) year from the date of purchase. During this warranty period, if the product is found to be defective, T&S shall, at its option, repair and/or replace it. To obtain warranty service, products must be returned to....

T&S Brass and Bronze Works, Inc.
Attn: Warranty Repair Department
2 Saddleback Cove
Travelers Rest, SC 29690

Shipping, freight, insurance, and other transportation charges of the product to T&S and the return of repaired or replaced product to the purchaser shall be the responsibility of the purchaser. Receipt or replacement shall be made within a reasonable time after receipt by T&S of the returned product. This warranty does not cover items which have received secondary finishing or have been altered or modified after purchase, or for defects caused by physical abuse to or misuse of the product, or shipment of the products.

Any express warranty not provided herein, and any remedy for Breach of Contract which might arise, is hereby excluded and disclaimed. Any implied warranties of merchantability or fitness for a particular purpose are limited to one year in duration. Under no circumstance shall T&S be liable for loss of use or any special consequential cost, expense or damages.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. Specific rights under this warranty and other rights vary from state to state.

P/N: 098-016998-45 Rev. 2
DATE: 11-08-10
DRAWN: TEH
CHECKED: JRM 11-12-10
APPROVED: JHB 11-12-10

Parts List

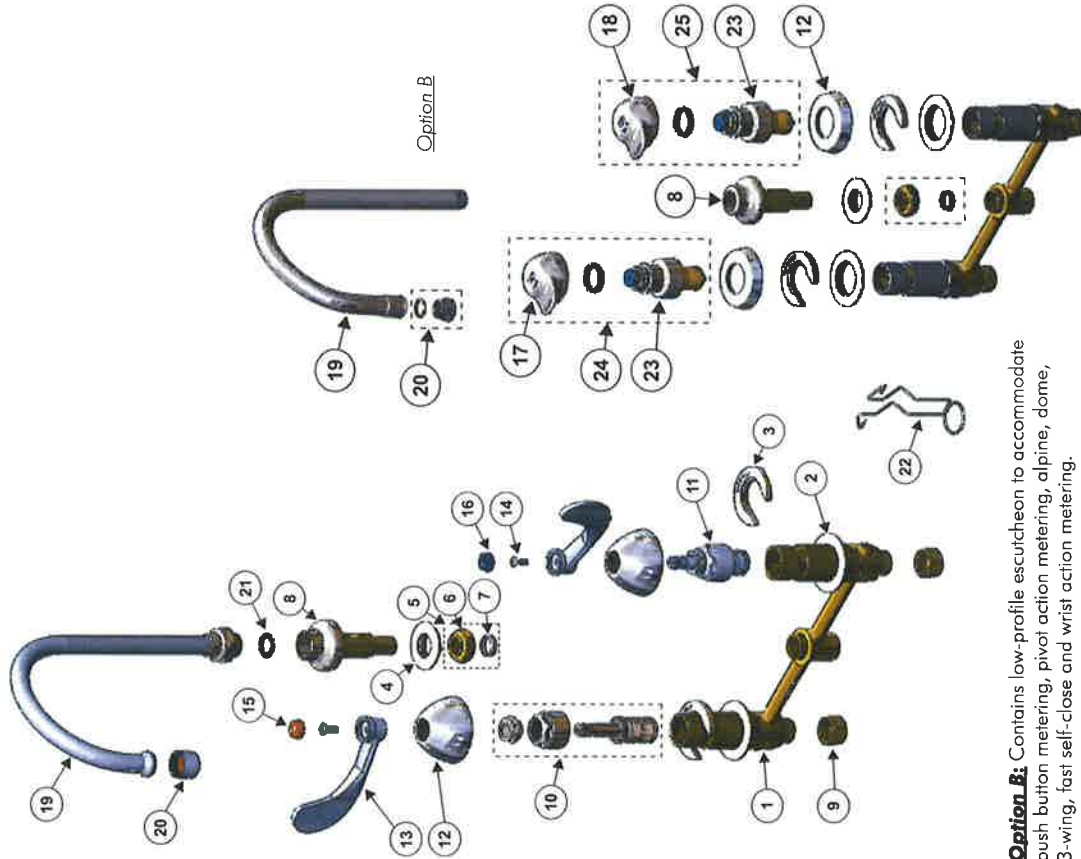
1	Base Faucal Assembly	N/A
2	Side Flange Nut	N/A
3	C-Washer	016749-45
4	Center Flange Nut	016742-45
5	Compression & Nut Fitting	016745-45
6	Compression Nut	N/A
7	Compression Fitting	N/A
8	Center Shank	016754-40
9	Center Shank, Swivel	016847-40
10	Center Shank, Rigid	000938-20
11	Coupling Nut	
12	Escutcheon, Bell	001257-40
13	Escutcheon, Metering	017292-45
14	Hanger	016777-45
15	Rigid & Swivel Goosenecks	Inquire w/ T&S
16	55/64" 27 Female Threads	B-0199-01
17	3/8" NPSM Male Threads	B-0199-02
18	13/16" 27 Male Threads	B-0199-03
19	Stream Regulator, Plain	B-LT
20	Stream Regulator w/ Screen	B-PT
21	Sid spray & Hose Assembly	001495-45
22	Star Washer, Anti-Rotation	014200-45

Cartridge Assemblies

10	Cartridge, Hot/Electric Teflon	016753-40
11	Cartridge, Hot/Cerama	016767-25
12	Cartridge, Cold/Electric Teflon	016752-40
13	Cartridge, Cold/Cerama	016768-25
14	Wrist Action Metering	012449-40
15	Hot/Electric Teflon - Short	017327-40
16	Push Button Metering	238A
17	Pivot Action Metering - Hot (shown)	238AH-PA
18	Pivot Action Metering - Cold (shown)	238AC-PA

Handle Assemblies

13	Handle, 4" Wrist Action (shown)	B-WH4
14	Handle, 4" Arm	001638-45
15	Screw, 4" Wrist Action (shown)	002521-45
16	Screw, Lever Handle	000925-45
17	Index, Snap-In Red (Hot) (shown)	000922-45
18	Index, Lever Handle (Hot)	001194-45
19	Index, Snap-In Blue (Cold) (shown)	001661-45
20	Index, Lever Handle (Cold)	001660-45
21	Pivot Action Handle - Hot	PA-H
22	Pivot Action Handle - Cold	PA-C
23	Cold Cap Assembly	014195-40
24	Hot Cap Assembly	014194-40
25	Lavatory Handle, 3-Wing - Cold	001784-40
26	Lavatory Handle, 3-Wing - Hot	001783-40
27	Fast Self-Closing Arm - Cold	002875-40
28	Fast Self-Closing Arm - Hot	002876-40
29	Cold Alpine Handle Assembly	076F-C
30	Hot Alpine Handle Assembly	076F-H



Option B: Contains low-profile escutcheon to accommodate push button metering, pivot action metering, alpine, dome, 3-wing, fast self-close and wrist action metering.

Before starting the installation, be sure to flush supply lines and shut off water supply.

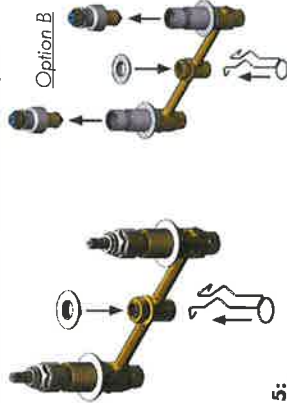
Step 1:

Take center shank out of body.



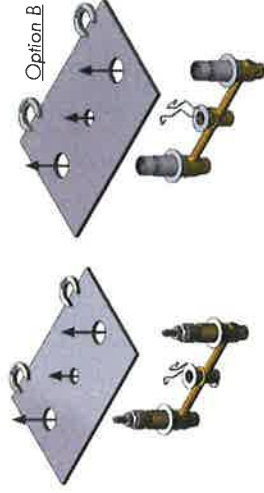
Step 2:

Place hanger on body. Add center flange nut to top of compression nut. Option B: Remove cartridges.



Step 3:

Insert body into deck holes until hanger snaps to top of deck. Place c-washers under bonnet nuts on side bodies.



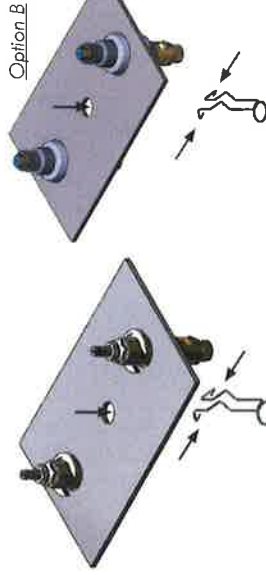
Step 4:

Option B: Screw metering escutcheons over c-washers. Tighten cartridges.



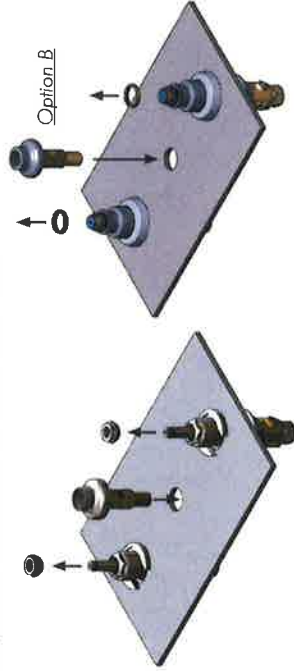
Step 5:

Squeeze hanger loops and allow hanger to drop through center hole.



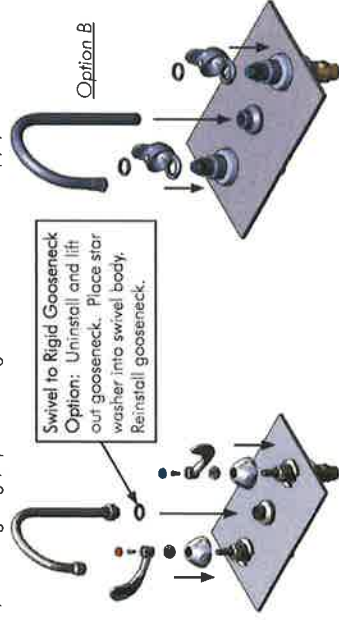
Step 6:

Remove nuts as shown. Option B: Remove retaining rings from cartridges. Place center body through center hole into main body. Tighten 3 flange nuts. Tighten compression nut to seal center body.



Step 7:

Add escutcheons, packing nuts, handles, spout and tighten. Option B: Add handles, retaining rings, spout and tighten. Turn on water supply and check for leaks.



Swivel to Rigid Gooseneck Option: Uninstall and lift out gooseneck. Place star washer into swivel body. Reinstall gooseneck.

For models with sidespray:



1. Tighten diverter to center body using flat head screwdriver.
2. Remove locknuts from hose guide, place it through existing hole in sink. Reinstall locknut on the hose guide. Tighten by hand.
3. Apply Teflon tape to threaded end of sidespray, insert through hose guide and attach threaded end of side spray to base of center body. Tighten with wrench.
4. Turn on water and check for leaks.



INSTALLATION & SERVICE INSTRUCTIONS MODEL 170A-LF

Bulletin G-170A
October 2020

170A-LF 3/8" COMPRESSION

ASSE 1070 CERTIFIED

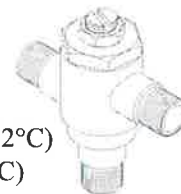


WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer. For more information, go to www.P669666.ca.gov

NOTE: DO NOT USE THREAD SEALANT ON COMPRESSION CONNECTIONS

PERFORMANCE:

- Maximum Pressure: 125 PSI (8.6 BAR)
- Maximum Hot water temperature: 180°F (82°C)
- Hot water inlet temperature range: 120-180°F (49-82°C)
- Cold water inlet temperature range: 33-80°F (1-27°C)
- Outlet temperature range: 95-120°F (35-49°C)
- Minimum flow certified to ASSE 1070: 0.25 GPM
- Maximum flow: 4 GPM



WARNING!!



WATER TEMPERATURES IN EXCESS OF 110°F (43°C) MAY CAUSE SCALDING, SEVERE INJURY, OR DEATH!! IMPORTANT!

This thermostatic water mixing valve is NOT pre-set and can be adjusted to deliver water at temperatures exceeding 110°F (43°C). After installation, the installer must check the outlet water temperature and adjust the temperature setting to ensure delivery of a safe water temperature not exceeding 110°F (43°C).

Periodic inspection and maintenance is required

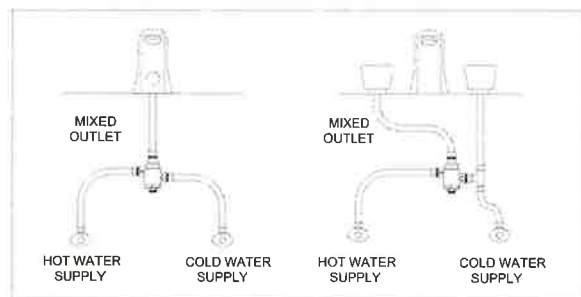
Regular inspection of the valve and the outlet temperature are required. Cleaning at a minimum of annually will help assure proper function of the mixing valve. Frequency of cleaning and inspection of the outlet temperature depends upon local water quality conditions.

1. Valve should be installed where it can be easily cleaned, adjusted or repaired. Leonard recommends that shutoffs are installed on the inlets to the mixing valve.
2. Inlets are furnished with 3/8" compression connections. If using copper tubing, do NOT extend tubing more than 3/16" beyond the compression ferrule. **DO NOT use thread sealant.**
3. Tighten compression nuts by hand, then tighten only 1/4 turn, overtightening will cause leaks and possibly crush checks.
4. Flush the hot and cold water lines before installing mixing valve.
5. "H" and "C" are clearly marked on the inlets, install hot water line to inlet marked "H" and cold water line to the inlet marked "C". Valve can be installed in any position.
6. Valve is NOT pre-set and must be set after installation. Run water for at least 1-2 minutes to allow water to stabilize.
7. Loosen locknut on stem, turn stem (screwdriver adjustment) counter-clockwise (stem coming out of valve) for hotter and clockwise (stem going into valve) for colder outlet temperature. Do not force the valve to below 90° F.
8. Tighten down the locknut to prevent unauthorized adjustment.
9. Verify the outlet temperature is set to the correct temperature.

TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
Cannot reach desired outlet temperature	Valve is full of debris or Inlets supplies are reversed	Flush valve with water Pipe hot to hot inlet, cold to cold inlet
Flow rate reduced or fluctuating	Inlet screen filled with debris	Check inlet screens for debris
No flow from outlet	Hot or Cold water supply failure	Restore Hot and Cold water inlet supplies
No flow from outlet	Inlet supply tube extending more than 3/16" beyond ferrule	Shorten tube and replace inlet checks
Hot water flows into Cold water supply or vice versa	Check valve has debris, inlets were not properly flushed	Replace inlet check valves and screens
Outlet temperature not warm enough	Hot water supply not 10° F above required outlet temperature (5° F with equal pressures)	Increase Hot water inlet temperature

INSTALLATION



170A - BP ONLY



PACKING
PART # 7539



CHECK KIT - KIT 4/108
INCLUDES CHECKS
AND SCREENS

LIMITED WARRANTY

Leonard Valve Company warrants the original purchaser that products manufactured by them (not by others) will be free from defects in materials and workmanship under normal conditions of use, when properly installed and maintained in accordance with Leonard Valve Company's instructions, for a period of one year from date of shipment. During this period the Leonard Valve Company will at its option repair or replace any product, or part thereof, which shall be returned, freight prepaid, to the Leonard factory and determined by Leonard to be defective in materials or workmanship. There are no warranties, express or implied, which extend beyond the description contained herein. There are no implied warranties of merchantability or of fitness for a particular purpose. In no event will Leonard be liable for labor or incidental or consequential damages. Any alteration or improper installation or use of the product will void this limited warranty.

1360 Elmwood Avenue, Cranston, RI 02910 USA

Phone: 401.461.1200 Fax: 401.941.5310

Email: info@leonardvalve.com

Web Site: <http://www.leonardvalve.com>



a Bead Industries, Inc. company

Warranty, Terms and Return Policies

TERMS: All sales are subject to credit approval. Terms are 2% ten days – net 30.

RETURNED GOODS: Requests for returning purchased items are subject to factory approval.

A Returned Goods Authorization (RGA) must be obtained from the factory prior to any return. Returned merchandise must be in their original cartons, listed in our current List Price Sheet and in clean saleable condition.

Restocking charge:

- Material that was shipped within 18 months of the return request is subject to a 25% restocking charge.
- Material that was shipped more than 18 months of the return request but less than 3 years is subject to a 50% restocking charge.
- Material returned more than 18 months after it was shipped is not subject to any stock rotation agreement.
- Material that was shipped more than 3 years before the return request is not returnable.
- Invoice dates as well as dates on packaging will control.

The restocking charge may be reduced if a new order of equal value is placed at the time the RGA is requested:

- 25% may be reduced to 15%
- 50% may be reduced to 35%

MINIMUM RETURN POLICY:

Return requests less than \$200 net will be charged \$50 processing fee in lieu of any restocking charge.

INVOICE:

We reserve the right to invoice all merchandise at prices in effect at time of shipment.

NO MINIMUM ORDER:

Orders less than \$200 list will be invoiced at list price less 35% (.65 multiplier).

McGuire Manufacturing Co., Inc.

60 grandview court • cheshire • ct • 06410

tel 203-699-1801 • fax 203-699-1813

mcguiremfg.com

customerservice@mcguiremfg.com

FREIGHT:

We will pay freight on shipments within the continental United States when the order (pre-tax) totals more than \$2200 net. We select the method of shipment and carrier when we pay the freight.

Limited Warranty Information

McGuire Manufacturing Co., Inc. (McGuire) warrants its product to be free from defects in material and workmanship for the period indicated below by product type measure from the date of purchase:

ITEM	WARRANTY PERIOD
Brass products	15 years
ProWrap	5 years
Eco P-Traps, Eco Strainers and Valve Strainers	1 year
Stainless Steel products	1 year
Lite Commercial P-Traps	1 year

McGuire's sole responsibility will be to replace, at no additional charge, any product which proves to be defective within the applicable warranty period. Shipping costs for product located outside the continental United States will be the sole responsibility of the customer. Duties and taxes, if levied, shall be the sole responsibility of the customer.

The above Limited Warranty shall not apply if the product has been damaged due to abuse, misuse, improper installation, accident, or other cause not within McGuire's control.

THE ABOVE LIMITED WARRANTY IS THE SOLE AND EXCLUSIVE WARRANTY. ALL OTHER WARRANTIES ARE DISCLAIMED, WHETHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL MCGUIRE BE RESPONSIBLE OR LIABLE FOR ANY SPECIAL INCIDENTAL, OR CONSEQUENTIAL DAMAGES OR LOSSES ARISING FROM THE USE OF THIS PRODUCT.

McGuire may, at its option, alter the contents of this LIMITED WARRANTY at anytime. These changes will affect products manufactured after the effective date of this policy.

McGuire Manufacturing Co., Inc.

60 grandview court • cheshire • ct • 06410

tel 203-699-1801 • fax 203-699-1813

mcguiremfg.com

customerservice@mcguiremfg.com

JRMC OB-GYN Clinic

Clarksville, AR

Comfort Systems USA

North Little Rock, AR

Plumbing Submittals

Sanders Supply



Hot Springs, AR

March 9, 2023

JRMC OB-GYN Clinic

Plumbing Fixture Schedule Index

<u>TAB</u>	<u>Description</u>
P-1	Water Closet ADA
P-2	Lavatory ADA
P-3	Sink ADA
P-4	Sink ADA
P-5	Sink
P-6	Ice Maker Wall Box
P-7	Dishwasher Supplies
P-8	Water Hammer Arrestor
P-9	Wall Cleanout

P-1



Madera™ FloWise® 16-1/2" Height Elongated Flushometer Toilet

VITREOUS CHINA LESS EVERCLEAN®



Madera™ FloWise® 16-1/2" Height Elongated LESS EverClean®

- Floor mount flushometer valve toilet
- Vitreous china
- High Efficiency, Low Consumption. Operates in the range of 1.1 gpf to 1.6 gpf (4.2 Lpf to 6.0 Lpf)
- Meets definition of HET (High Efficiency Toilet) when used with a high efficiency flush valve (1.1, 1.28 gpf or 1.6 / 1.1 gpf dual flush)
- Fully glazed 2-1/8" trapway
- Elongated bowl
- 10" or 12" roughing-in
- 16-1/2" rim height for accessible application
- Condensation channel
- Powerful direct-fed siphon jet action
- 10" x 12" water surface area
- 1-1/2" inlet spud
- 2 bolt caps included
- Tested to support static weight load of 2,500 lbs. (1,134 kg)



- ☐ **3043.001** Elongated bowl only, top spud
- ☐ **3248.001** Elongated bowl only, top spud with slotted rim for bedpan holding
- ☐ **3249.001** Elongated bowl only, back spud

Component Parts:

- ☐ **047007-0070A** Inlet Spud (furnished with bowl)
- ☐ **034783-0200A** Bolt caps with retainers (furnished with bowl)

Nominal Dimensions:

718 x 356 x 419mm
(28-1/4" x 14" x 16-1/2")

Fixture only, less seat and flush valve

Compliance Certifications -

Meets or Exceeds the Following Specifications:

- ASME A112.19.2 / CSA B45.1 for Vitreous China Fixtures



SEE REVERSE FOR ROUGHING-IN DIMENSIONS

System MaP* Score:

- 1,000 grams of miso @ 1.1 gpf, 1.28 gpf or 1.6 gpf when used with an American Standard flush valve

* Maximum Performance (MaP) testing performed by IAPMO R&T Lab. MaP Report conducted by Veritec Consulting, Inc. and Koeller and Company.

OPERATING PRESSURE:

25 psi (flowing) - 80 psi (static)

FLOW REQUIREMENT:

25 gpm (94.6 L/min.)

To Be Specified:

- ☐ Color: ☒ White
- ☐ Seat:
 - ☐ American Standard #5901.100 Heavy duty open front less cover
 - ☐ American Standard #5901.100SS Extra heavy duty open front less cover with EverClean®
- ☐ Flushometer Valve:



MEETS THE AMERICANS WITH DISABILITIES ACT GUIDELINES AND ANSI A117.1 REQUIREMENTS FOR ACCESSIBLE AND USABLE BUILDING FACILITIES - CHECK LOCAL CODES.



ENVIRONMENTAL
PRODUCT
DECLARATION



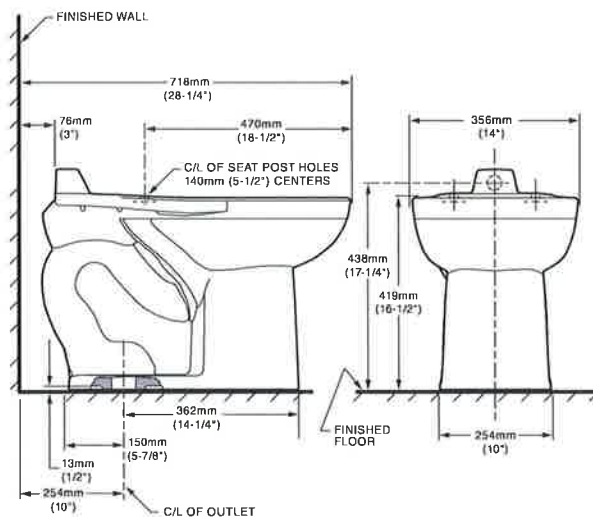
When used with
1.1 or 1.28 gpf
toilet flush valves



EVERCLEAN



WATER
EFFICIENT



NOTES:
 PRODUCT 3043 SHOWN, 3248 SAME EXCEPT WITH SLOTTED RIM FOR
 BED PAN HOLDING.
 TO COMPLY WITH AREA CODE GOVERNING THE HEIGHT OF VACUUM
 BREAKER ON THE FLUSHOMETER VALVE, THE PLUMBER MUST
 VERIFY DIMENSIONS SHOWN FOR SUPPLY ROUGHING.
 THIS TOILET DESIGNED TO ROUGH-IN AT A MINIMUM DIMENSION
 OF 254MM (10") AND A MAXIMUM DIMENSION OF 305MM (12") FROM
 FINISHED WALL TO C/L OF OUTLET.
 FLUSHOMETER VALVE NOT INCLUDED WITH FIXTURE AND MUST BE
 ORDERED SEPARATELY. FLUSHOMETER VALVE REQUIREMENTS FOR
 12" (305MM) ROUGH-IN: SWEAT EXTENSION NIPPLE IS REQUIRED.
 REFER TO VALVE MANUFACTURER AND LOCAL CODES.

PART OF **LIXIL**



Z6000

Exposed Flush Valve for Water Closets

TAG P-1

Architectural/Engineering Specification:

Exposed, quiet diaphragm-type, chrome plated flushometer valve with a polished exterior. Complete with a chloramine resistant, dual seal diaphragm with a clog resistant by-pass. The valve is ADA compliant with a non-hold open and no leak handle feature. Internal seals are made of chloramine resistant materials.

Product Features:

- Control Stop has internal siphon-guard protection, sweat solder kit, wall flange with set screw.
- High back pressure vacuum breaker with one piece hex coupling nut
- Chloramine resistant Internal seals
- Adjustable tailpiece
- Spud coupling and flange for top spud connection

Valve Height Options:

	Product No.	A
<input checked="" type="checkbox"/>	Z6000	11 1/2" [292]
<input type="checkbox"/>	Z6000-1	16" [406]
<input type="checkbox"/>	Z6000-2	24" [610]
<input type="checkbox"/>	Z6000-3	27" [686]

Compliance and Certification:

- ADA Compliant



*This product should be used with a WaterSense labeled counterpart with a compatible flow volume to ensure that the entire system meets the requirements for water efficiency and performance.



Flow Options:

	Flush Volume	Dual Flush	WaterSense* Labeled
<input type="checkbox"/> -ONE**	1.1 gpf		✓
<input type="checkbox"/> -HET**	1.28 gpf		✓
<input checked="" type="checkbox"/> -WS1	1.6 gpf	1.6/1.1 gpf	
<input type="checkbox"/> -Standard	3.5 gpf	3.5/2.4 gpf	

Suffix Options:

- ☐ -BG BioCare Handle
- ☐ -DF Dual Flush Handle (See Chart Above)
- ☐ -H Handle on Front of Flush Valve
- ☐ -L 1" [25] Metal Push Button
- ☐ -VC Vandal Resistant Stop Cover
- ☐ -YJ Split Ring Pipe Support
- ☐ -YK Solid Ring Pipe Support

Upgrade Options:

- ☐ -PL **Aquaflush Plus** - includes Vandal Resistant Stop Cover and Proprietary Dezincification resistant low lead brass alloy body.
- ☐ -TFB Triple Filter By-pass

** Not available w/-TFB

Architectural/Engineering Approval

The information contained in this document is subject to change without notice.
Please contact Zurn for most up to date information.

Rev. B | Date: 11/08/22 | C.N. No. 144844 | Prod./Dwg. No. SS Z6000

Patent zurn.com/patents

US 1.855.ONE.ZURN CANADA 1.877.892.5216

ZURN.COM

by **ZURN ELKAY** Water Solutions

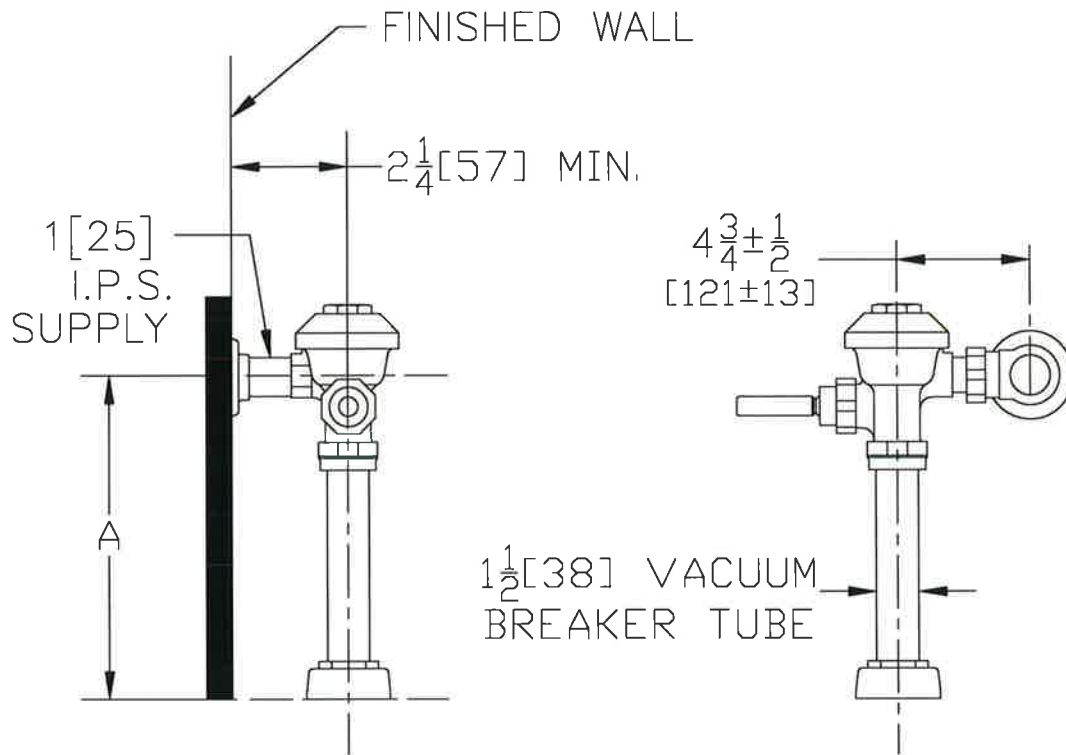


Z6000

Exposed Flush Valve for Water Closets

TAG _____

Rough-in/Overview dimensions



Rev. B | Date: 11/08/22 | C.N. No. 144844 | Prod./Dwg. No. SS Z6000

Patent zurn.com/patents

US 1.855.0NE.ZURN CANADA 1.877.892.5216

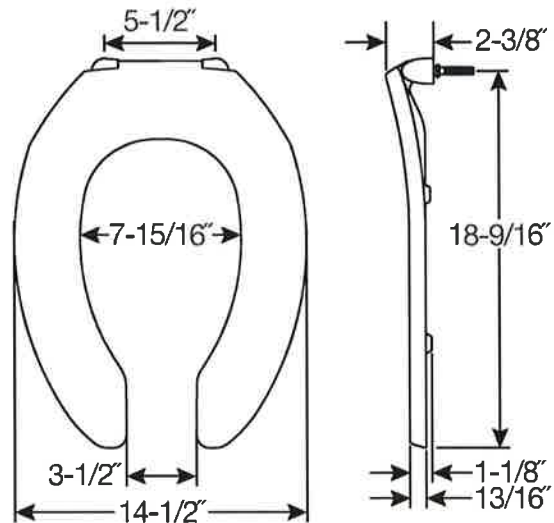
ZURN.COM

by **zurn ELKAY** Water Solutions



295CT / 295SSCT

COMMERCIAL HEAVY-DUTY
PLASTIC TOILET SEAT



FEATURES:

- **STA-TITE® Commercial Fastening System™**
Eliminates callbacks for loosened seats

SPECIFICATIONS:

Size: Elongated

Material: Plastic

Style: Open Front less Cover

Ring Bumpers: Four

Hinges: Plastic Non Self-Sustaining Check Hinges (295CT) or Self-Sustaining Check Hinges (295SSCT) with Non-Corroding 300 Series Stainless Steel Posts and Pintles

Hardware: STA-TITE® Commercial Fastening System™

Codes & Standards:



Complies with
IAPMO/ANSI Z124.5
Performance Standards
Heavy-Duty Commercial



Proudly Made in the USA

Church Seat Co., Sheboygan Falls, WI 53085 | ToiletSeats.com
Church Seat Co. reserves the right to make revisions without notice to product specifications.

ph: 800.233.7328



fx: 800.292.3647
©2014 087082356

P-2

Lucerne™ Wall-Hung Lavatory

- Wall-hung sink
- Vitreous china
- Front overflow
- D-shaped bowl
- Self-draining deck area with contoured back and side splash shields
- Faucet ledge
- Compliant with Texas Accessibility Standard (TAS) for children age group 13 and up

Faucet holes on 203 mm (8") centers:

- ☐ **0356.028** For exposed bracket support (by others)
- ☐ **0356.015** For wall hanger (included) or concealed arms support (by others)
- ☐ **0356.915** For wall hanger (included) or concealed arms support (by others) less overflow
- ☐ **0356.037** For wall hanger (included) or concealed arms support (by others) with extra 35 mm (1-3/8") hole for soap/lotion dispenser (by others) on right-hand side

Faucet holes on 102 mm (4") centers:

- ☐ **0355.027** For exposed bracket support (by others)
- ☒ **0355.012** For wall hanger (included) or concealed arms support (by others)
- ☐ **0355.912** For wall hanger (included) or concealed arms support (by others) less overflow
- ☐ **0355.056** For wall hanger (included) or concealed arms support (by others) with extra 35 mm (1-3/8") hole for soap/lotion dispenser (by others) on left-hand side
- ☐ **0355.034** For wall hanger (included) or concealed arms support (by others) with extra 35 mm (1-3/8") hole for soap/lotion dispenser (by others) on right-hand side
- ☐ **0355.041** With two holes spaced 343 mm (13-1/2") in back splash for 10 mm (3/8") bolts (by others)

Single center faucet hole:

- ☐ **0356.041** For exposed bracket support (by others)
- ☐ **0356.421** For wall hanger (included) or concealed arms support (by others)
- ☐ **0356.921** For wall hanger (included) or concealed arms support (by others) less overflow
- ☐ **0356.439** For wall hanger (included) or concealed arms support (by others) with single faucet hole on right
- ☐ **0356.066** For exposed bracket support (by others) with single faucet hole on right
- ☐ **0356.115** For wall hanger (included) or concealed arms support (by others) with extra 35 mm (1-3/8") hole for soap/lotion dispenser (by others) on left-hand side
- ☐ **0356.137** For wall hanger (included) or concealed arms support (by others) with extra 35 mm (1-3/8") hole for soap/lotion dispenser (by others) on right-hand side



0355.012



0356.041

SEE FOLLOWING PAGES FOR ROUGHING-IN DIMENSIONS

Compliance Certifications -

Meets or Exceeds the Following Specifications:

- ASME A112.19.2 / CSA B45.1 for Vitreous China Fixtures

Nominal Dimensions:

540 x 464 mm
(21-1/4" x 18-1/4")

Bowl sizes:

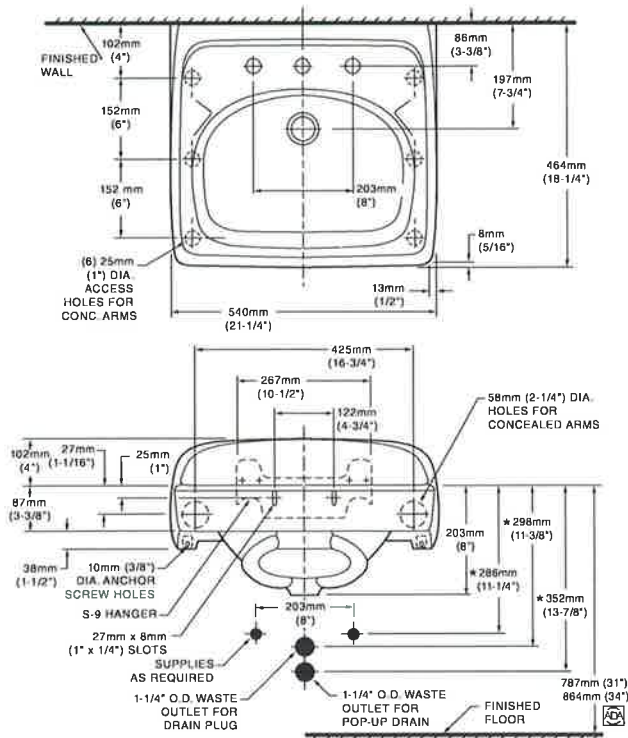
379 mm (14-7/8") wide
254 mm (10") front to back
165 mm (6-1/2") deep

To Be Specified:

- ☐ Color: ☒ White
- ☐ Faucet:
- ☐ Faucet Finish:
- ☐ Supplies:
- ☐ 1-1/4" Trap:
- ☐ Bracket Support (by others):
- ☐ Concealed Arms Support (by others):

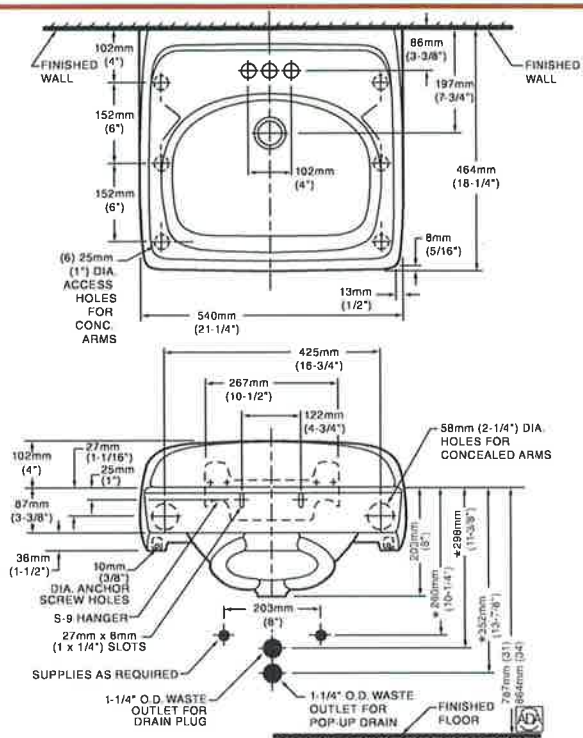
8" CENTER CONFIGURATIONS

All Wall Hanger (included) or Concealed Arm Configurations

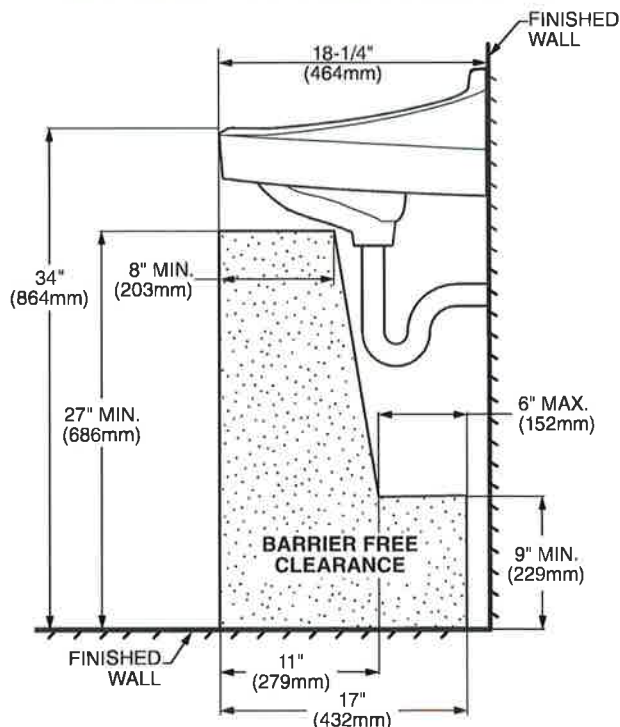


4" CENTER CONFIGURATIONS

All Wall Hanger (included) or Concealed Arm Configurations



SIDE VIEW - ALL CONFIGURATIONS



NOTES:

* DIMENSIONS SHOWN FOR LOCATION OF SUPPLIES AND "P" TRAP ARE SUGGESTED. PROVIDE SUITABLE REINFORCEMENT FOR ALL WALL SUPPORTS. FITTINGS NOT INCLUDED AND MUST BE ORDERED SEPARATELY. CONCEALED ARM SUPPORT AS REQUIRED TO BE FURNISHED BY OTHERS.

IMPORTANT: Dimensions of fixtures are nominal and may vary within the range of tolerances established by ANSI Standard A112.19.2. These measurements are subject to change or cancellation. No responsibility is assumed for use of superseded or voided pages.



MEETS THE AMERICANS WITH DISABILITIES ACT GUIDE-LINES AND ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES - CHECK LOCAL CODES.

Top of front rim mounted 864mm (34") from finished floor.

**T&S BRASS AND BRONZE WORKS, INC.**2 Saddleback Cove / P.O. Box 1088
Travelers Rest, SC 29690

Model No.

B-2711-VF05

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

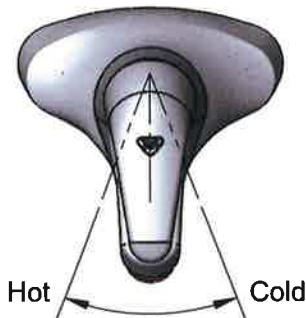
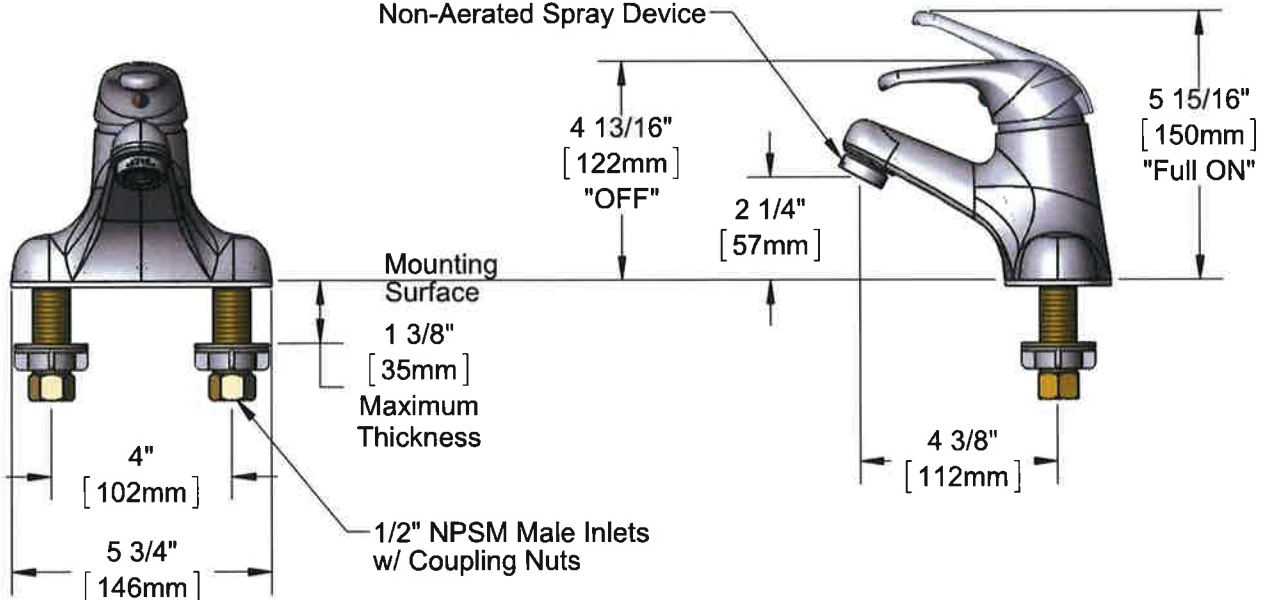
Job Name _____ Date _____

Model Specified _____ Quantity _____

Customer/Wholesaler _____

Contractor _____

Architect/Engineer _____

B-0199-09-N05
0.5 GPM Vandal Resistant
Non-Aerated Spray Device**Rough-In Requirement:**
(2) \varnothing 1" [25mm] Mounting Holes**Product Specifications:**

4" Deck Mount Single Lever Faucet, Ceramic Cartridge, Temperature Limit Stop, 0.5 GPM VR Non-Aerated Spray Device & 1/2" NPSM Male Inlets

Product Compliance:ASME A112.18.1 / CSA B125.1
NSF 61 - Section 9
NSF 372 (Low Lead Content)
ANSI A117.1 (ADA)



T&S BRASS AND BRONZE WORKS, INC.

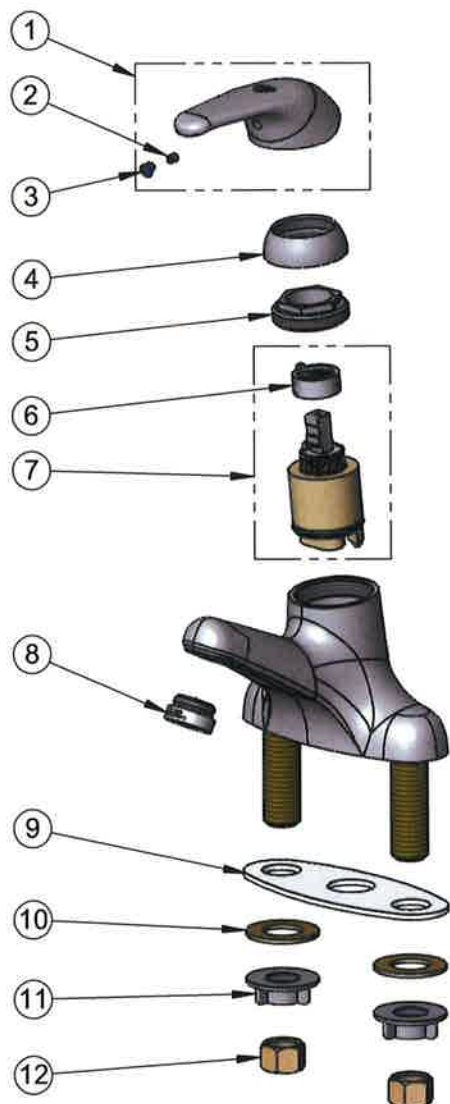
2 Saddleback Cove / P.O. Box 1088
Travelers Rest, SC 29690

Model No.

B-2711-VF05

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	013113-45	Single Lever Short Handle
2	016675-45	Set Screw
3	014173-45	Index, Temperature
4	016661-45	Trim Ring
5	016663-45	Locking Nut
6	015400-45	Temperature Limit Stop
7	013111-45	Ceramic Cartridge w/ Temperature Limit Stop
8	B-0199-09-N05	0.5 GPM VR Spray Device, 15/16-27 Male w/ Key
9	014167-45	Deck Gasket
10	000999-45	Brass Lock Washer
11	016673-45	Shank Nut
12	000958-20	Coupling Nut



015425-45
Vandal Resistant Key

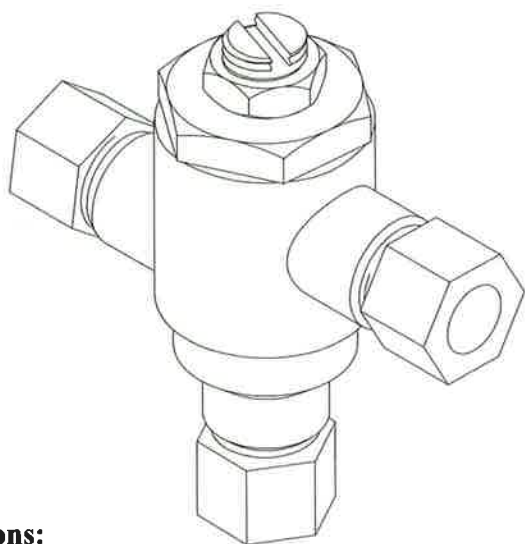
Product Specifications:

4" Deck Mount Single Lever Faucet, Ceramic Cartridge, Temperature Limit Stop, 0.5 GPM VR Non-Aerated Spray Device & 1/2" NPSM Male Inlets

Product Compliance:

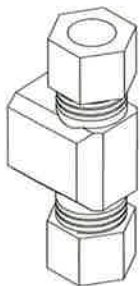
ASME A112.18.1 / CSA B125.1
NSF 61 - Section 9
NSF 372 (Low Lead Content)
ANSI A117.1 (ADA)

170A-LF

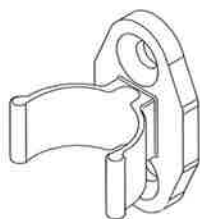


Options:

- ☐ STSTL REC- Stainless steel cabinet, #4 finish, recessed
- ☐ STSTL EXP- Stainless steel cabinet, #4 finish, exposed
- ☐ BWE REC- Steel cabinet, baked white, recessed
- ☐ BWE EXP- Steel cabinet, baked white, exposed
- ☐ BP- Cold water By-Pass (shipped loose)
- ☐ BRKT- mounting bracket (shipped loose)
- ☐ CP- Chrome plated finish



BP option



BRKT option



WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer. For more information, go to www.PbWarnings.ca.gov

* This product is certified to meet Low Lead requirements of wetted surface area containing less than 0.25% lead by weight

Application:

Submittal Data Sheet S-170A-LF
April, 2020

The Model 170A-LF is a high performance thermostatic temperature limiting device used to supply single outlets. Can be used to supply one sensor faucet or one two handle manual faucet.

Features:

- Certified to ASSE 1070 to control down to 0.25 GPM
- Eco-Mix Certified Lead-Free* construction
- Integral inlet checks and stainless steel screens
- Vandal resistant locknut to prevent accidental adjustment
- Easy 3/8" tubing or flex hose installation

Specifications:

- Minimum flow: 0.25 GPM (0.95 l/Min) Certified to ASSE
- Maximum flow: 4 GPM
- Maximum pressure: 125 PSI (8.6 BAR)
- Maximum hot water temperature: 180°F (82°C)
- Hot water inlet temperature range: 120-180°F (49-82°C)
- Cold water inlet temperature range: 33-80°F (1-27°C)
- Temperature adjustment range: 95-120°F (35-49°C)

Certifications:

ASSE 1070-2015

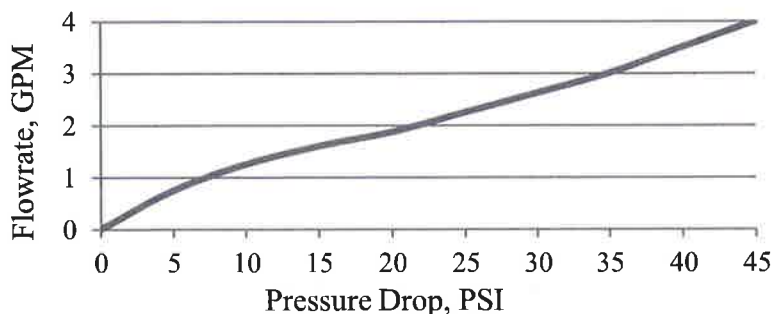


CSA B125.70-15



Certified to NSF61 thru the ASSE 1070 testing process

PRESSURE DROP						
5	10	15	20	30	45	PSI
.35	.70	1.05	1.4	2.1	3.1	BAR
0.75	1.25	1.6	1.88	2.63	4	GPM
2.84	4.73	6.06	7.1	10	15	L/MIN



1360 Elmwood Avenue, Cranston, RI 02910 USA

Phone: 401.461.1200 Fax: 401.941.5310

Email: info@leonardvalve.com

Web Site: <http://www.leonardvalve.com>

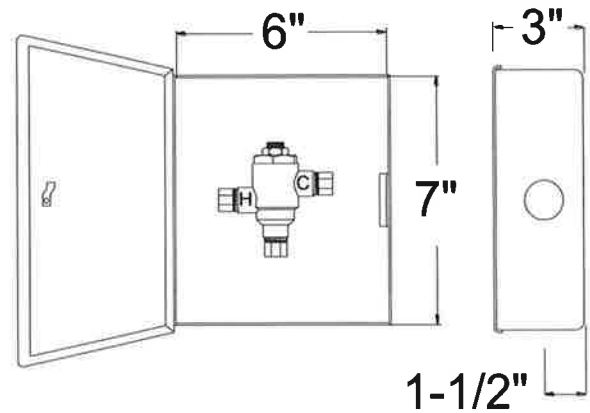
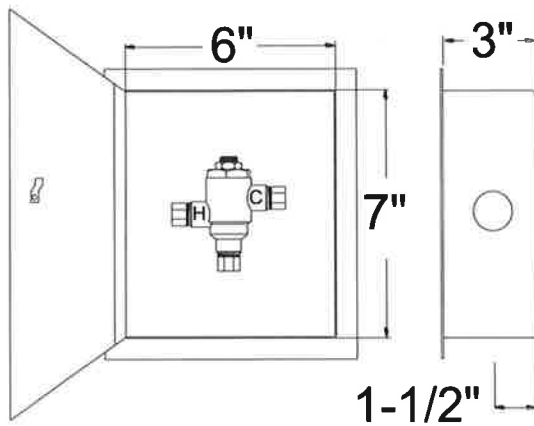
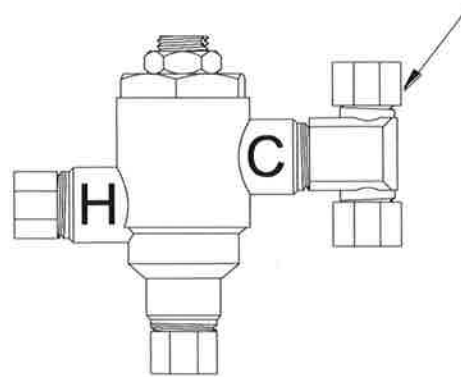
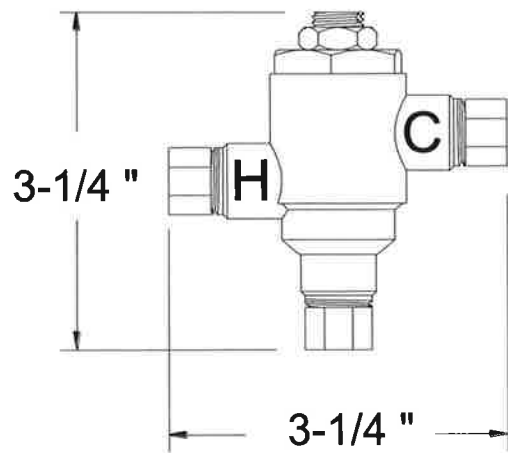
Engineer's Approval

Job # _____

Arch/Eng. _____

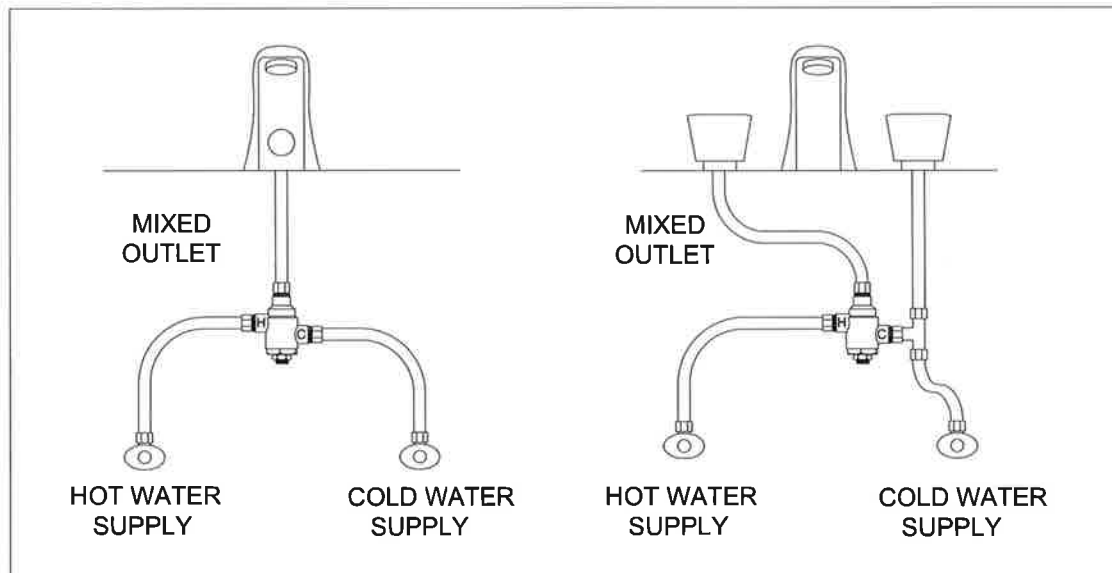
Contractor _____

BP-OPTION



170A-LF-REC

170A-LF-EXP



170A-LF

170A-LF-BP



Note: Leonard Valve Company reserves the right of product, or design modifications without notice or obligation.

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1360 Elmwood Avenue, Cranston, RI 02910 USA

Phone: 401.461.1200 Fax: 401.941.5310

Email: info@leonardvalve.com

Web Site: <http://www.leonardvalve.com>



McGuire Manufacturing Co., Inc.

60 Grandview Court
P.O. Box 746 ♣ Cheshire, CT 06410
203-699-1801 ♣ Fax: 203-699-1813
www.mcguiremfg.com

PRODUCT SPECIFICATION

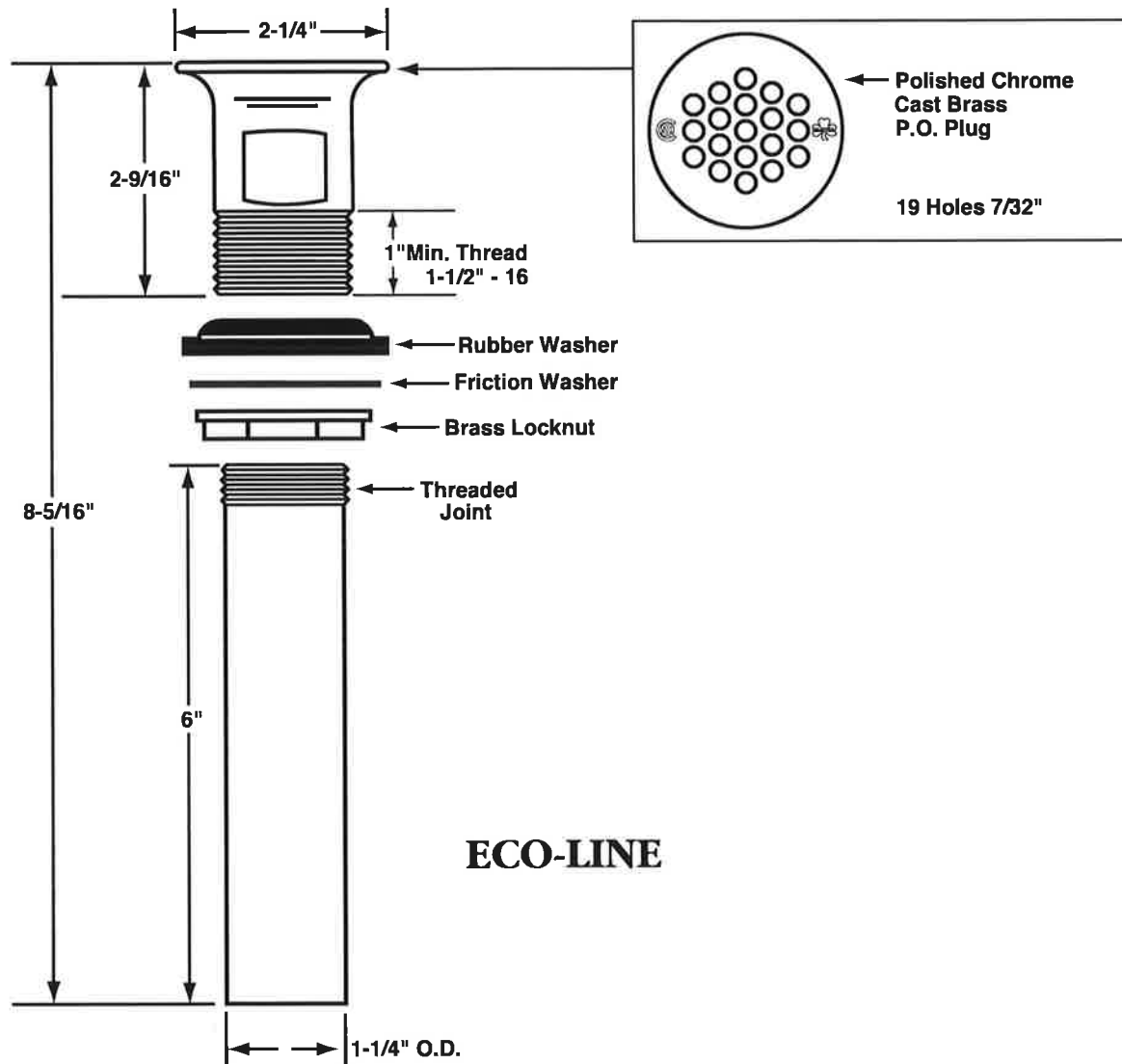
Part No.

155AECO

Open Grid P.O. Plug

Job Name:

Submittal Number:



ECO-LINE



Specifications:

Cast Brass Chrome Plated Open Grid P.O. Plug with 17 gauge 1-1/4" x 6" seamless brass tailpiece, brass locknut, heavy rubber basin washer and fiber friction washer. Drain shall be in compliance with CSA or other recognized testing authority and bear both manufacturer and testing mark.



McGuire Manufacturing Co., Inc.
60 Grandview Court
P.O. Box 746 ♣ Cheshire, CT 06410
203-699-1801 ♣ Fax: 203-699-1813
www.mcguiremfg.com

PRODUCT SPECIFICATION

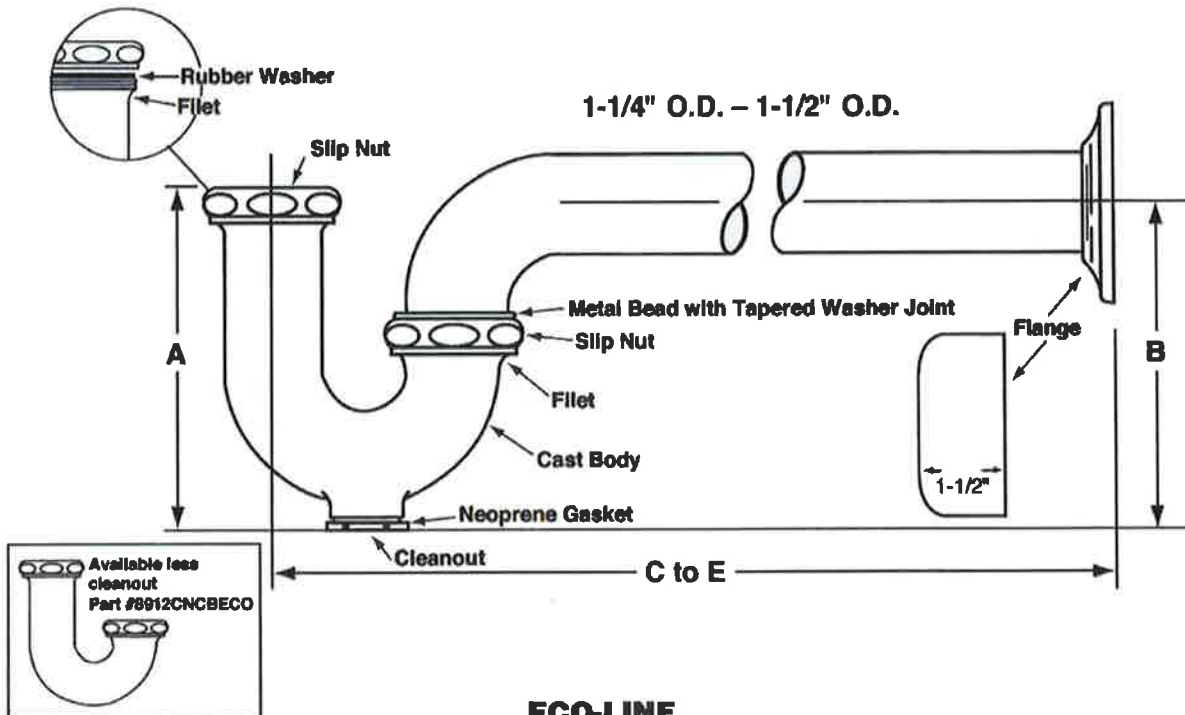
Part No.

8872CBECO, **C8872CECO**,
8912CBECO, **C8912CECO**,
8912CNCBECO, 8912C18BECO

**Cast Body P-Trap With
or Without Cleanout**

Job Name:

Submittal Number:



ECO-LINE

ROUGHING MEASUREMENTS

MODEL NO.	TRAP DIMENSIONS		A	B	C to E	FLANGE	SLIP NUT
	INLET	OUTLET					
8872CBECO	1-1/4"	1-1/4"	5"	4-1/2"	11"	Box	Brass
C8872CECO	1-1/4"	1-1/4"	5"	4-1/2"	10"	Shallow	Zinc
8912CBECO	1-1/2", 1-1/4"	1-1/2"	5"	4-1/2"	12"	Box	Brass
C8912CECO	1-1/2"	1-1/2"	5"	4-1/2"	10-1/2"	Shallow	Zinc
8912CNCBECO	1-1/2", 1-1/4"	1-1/2"	5"	4-1/2"	12"	Box	Brass
8912C18BECO	1-1/2", 1-1/4"	1-1/2"	5"	4-1/2"	18"	Box	Brass

**FED SPEC W.W.P. 541
CAST BRASS P-TRAP
MINIMUM SEAL 2"**

See options and accessories section for details on product variations.



Specifications:

Chrome plated P-Trap shall be cast brass body, with or without cleanout, with 17 gauge seamless tubular wall bend and flange.



McGuire Manufacturing Co., Inc.
60 Grandview Court
P.O. Box 746 • Cheshire, CT 06410
203-699-1801 • Fax: 203-699-1813
www.mcguiremfg.com

PRODUCT SPECIFICATION

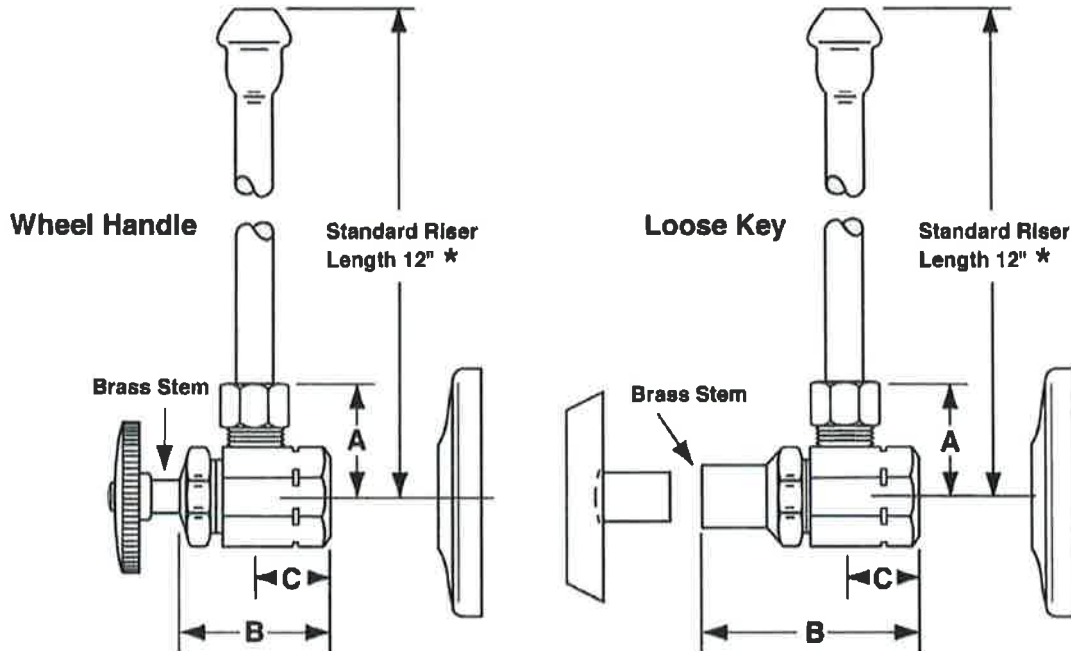
Part No.

LF2165, **LF2165LK**,
LF2167, LF2167LK

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"
➔ LF2165LK	1/2" I.P.S. x 3/8" O.D.	1-3/16"	2-1/4"	3/4"
LF2167	1/2" I.P.S. x 1/2" O.D.	1-3/16"	1-1/2"	3/4"
LF2167LK	1/2" I.P.S. x 1/2" O.D.	1-3/16"	2-1/4"	3/4"

LK designates Loose Key

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



Specifications:

Supply kit shall include low lead 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 low lead certified by recognized authority and bear manufacturer and testing mark.

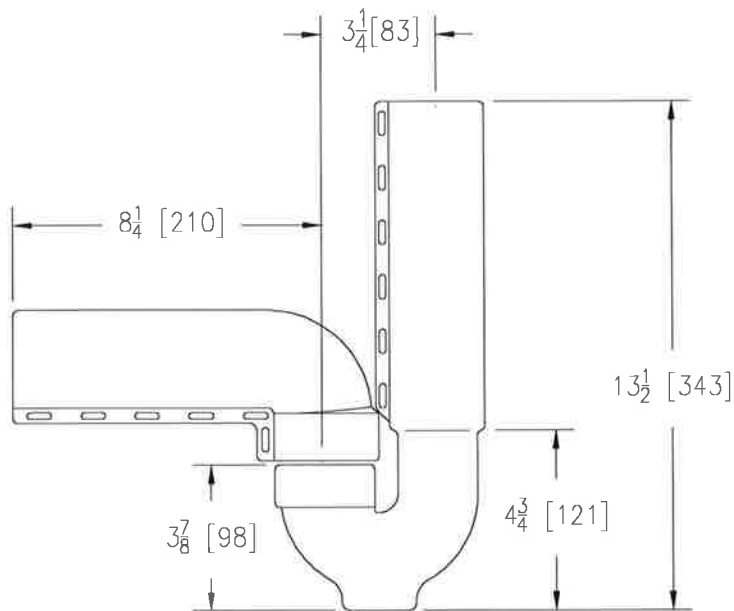


COMBINATION KIT: ONE TRAP AND TWO SUPPLY STOP PROTECTORS

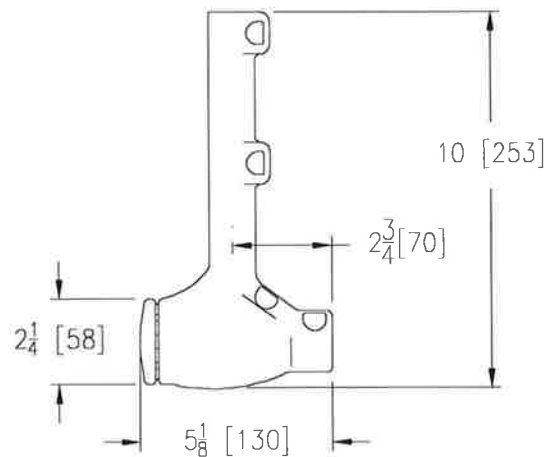
Z8946-1-NT

TAG _____

ENGINEERING SPECIFICATION: ZURN Z8946-1-NT Combination Kit: One trap protector and two supply stop protectors, satin white PVC resin. Antimicrobial, resists thermal transfer, and is ADA compliant. Trap protector fits both tubular and semi-cast P traps.



TRAP PROTECTOR



SUPPLY STOP PROTECTOR



ZURN INDUSTRIES, INC. ♦ COMMERCIAL BRASS OPERATION ♦ 2640 SOUTH WORK STREET ♦ FALCONER NY 14733

Phone: 1-716-665-1132 ♦ Fax: 1-716-665-1135 ♦ World Wide Web: www.zurn.com

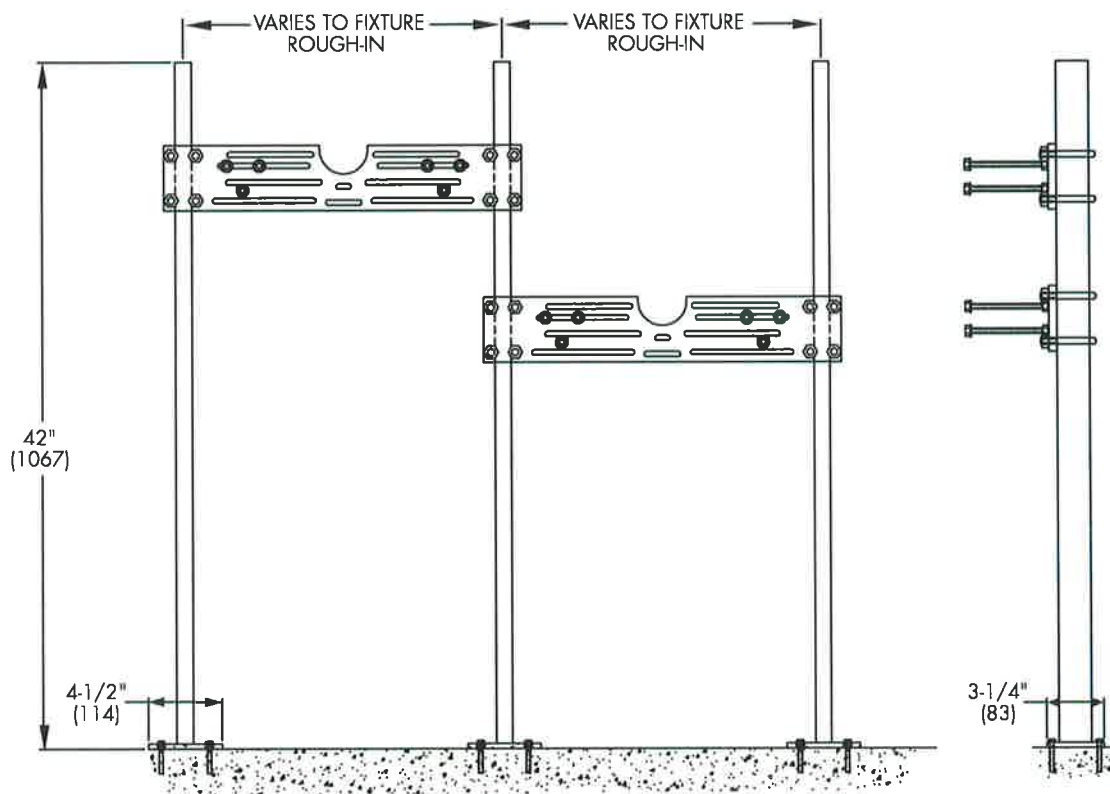
In Canada: ZURN INDUSTRIES LIMITED ♦ 3544 Nashua Drive ♦ Mississauga, Ontario L4V1L2 ♦ Phone: 905/405-8272 Fax: 905/405-1292



CA-431-1
Tag: P-2

**Floor Mounted Plate Type
Lavatory/Water Cooler Carrier**

SPECIFICATION: Watts Drainage CA-431-1 floor mounted bi-level water cooler carrier with heavy gauge steel uprights with integral welded feet, universal steel hanger support plate, and plated hardware.



Note: Anchor legs to concrete floor with minimum
1/2" (13) anchor bolts (by others).

Job Name **JRMC**

Contractor **Comfort Systems USA**

Job Location **Clarksville**

Contractor's P.O. No.

Engineer **HSA**

Representative **Sanders Supply**

WATTS Drainage reserves the right to modify or change product design or construction without prior notice and without incurring any obligation to make similar changes and modifications to products previously or subsequently sold. See your WATTS Drainage representative for any clarification. Dimensions are subject to manufacturing tolerances.



Specification Drainage Products

USA: 100 Watts Road, Spindale, NC, 28160-2298; TEL: 828-288-2179 TOLL-FREE: 1-800-338-2581 www.watts.com

P-3

PRODUCT SPECIFICATIONS

Elkay Lustertone™ Classic Stainless Steel 19-1/2" x 19" x 5-1/2" Single Bowl Drop-in ADA Sink. Sink is manufactured from 18 gauge 304 Stainless Steel with a Lustrous Satin finish, Rear Center drain placement, and Bottom only pads.

Installation Type:	Drop-in
Material:	304 Stainless Steel
Finish:	Lustrous Satin
Gauge:	18
Sound Deadening:	Bottom only pads
Number of Bowls:	1
Sink Dimensions:	19-1/2" x 19" x 5-1/2"
Bowl 1 Dimensions:	16" x 13-1/2" x 5-3/8"
Drain Size:	3-1/2" (89mm)
Drain Location:	Rear Center
Minimum Cabinet Size:	24"
Mounting Hardware:	Part # 64090012 included for countertops up to 3/4" (19mm) thick
Template Included:	No
Cutout Template #:	1000001259

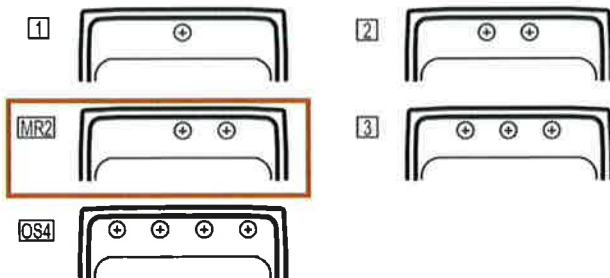
Template is available for download at elkay.com. CAD software will be required to open the template.

Cutout Dimensions for Drop-in Installation:

18-7/8" x 18-3/8" (479mm x 467mm) with 1-1/2" (38mm) corner radius

Hole Drilling Configurations:

1-1/2" (38mm) Diameter Faucet Holes on 4" (102mm) Centers



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



Sinks are listed by IAPMO® as meeting the applicable requirements of the Uniform Plumbing Code®, International Plumbing Code®, and National Plumbing Code of Canada.



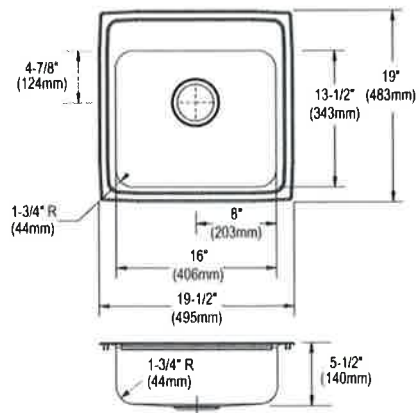
Complies with ADA & ICC A117.1 accessibility requirements when installed according to the requirements outlined in these standards.

[Clean and Care Manual \(PDF\)](#)

[Installation Instructions \(PDF\) - 1000005236](#)

[Warranty \(PDF\)](#)

Similar models are available with: 4" 4-1/2" 5" 6" and 6-1/2" depths, CuVerro antimicrobial copper, Quick-Clip Mounting System



PART: _____ QTY: _____
PROJECT: _____
CONTACT: _____
DATE: _____
NOTES: _____
APPROVAL: _____

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.



T&S BRASS AND BRONZE WORKS, INC.

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

Model No.

B-2741

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

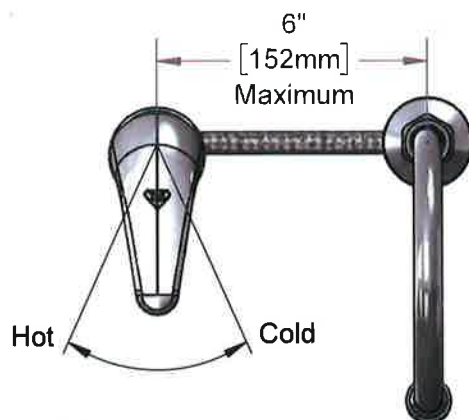
Job Name _____ Date _____

Model Specified _____ Quantity _____

Customer/Wholesaler _____

Contractor _____

Architect/Engineer _____



5 3/4" Swivel
Gooseneck w/
B-0199-06
VR 2.2 GPM Aerator.
Rigid Conversion Requires
014200-45 Lock Washer
(Included)

Ceramic Cartridge w/
Temperature Limit Stop

Temperature
Index

Ø 2 1/8"
[54mm] Base

Brass Lock
Nut &
Threaded
Locking Rod

(2) 16" Flexible Stainless Steel
Hoses w/ 3/8" Compression
Swivel Ends



5 3/16"
[132mm]
Full
"ON"

3 15/16"
[99mm]
"OFF"

Ø 2" [51mm] Base
w/ 1/2" NPSM Male Inlet

1 1/8"
[29mm]
Maximum
Thickness

Rough-in Requirements:

Swivel Deck Flange: Ø 1" [25mm] Hole

Sidemount: Ø 1 1/2" [38mm] Hole

Product Specifications:

Single Lever Side Mount Remote On/Off Control Base Faucet, Ceramic Cartridge, Swivel Gooseneck, Vandal Resistant 2.2 GPM Aerator & (2) 16" Flexible Stainless Steel Supply Hoses

Product Compliance:

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



T&S BRASS AND BRONZE WORKS, INC.

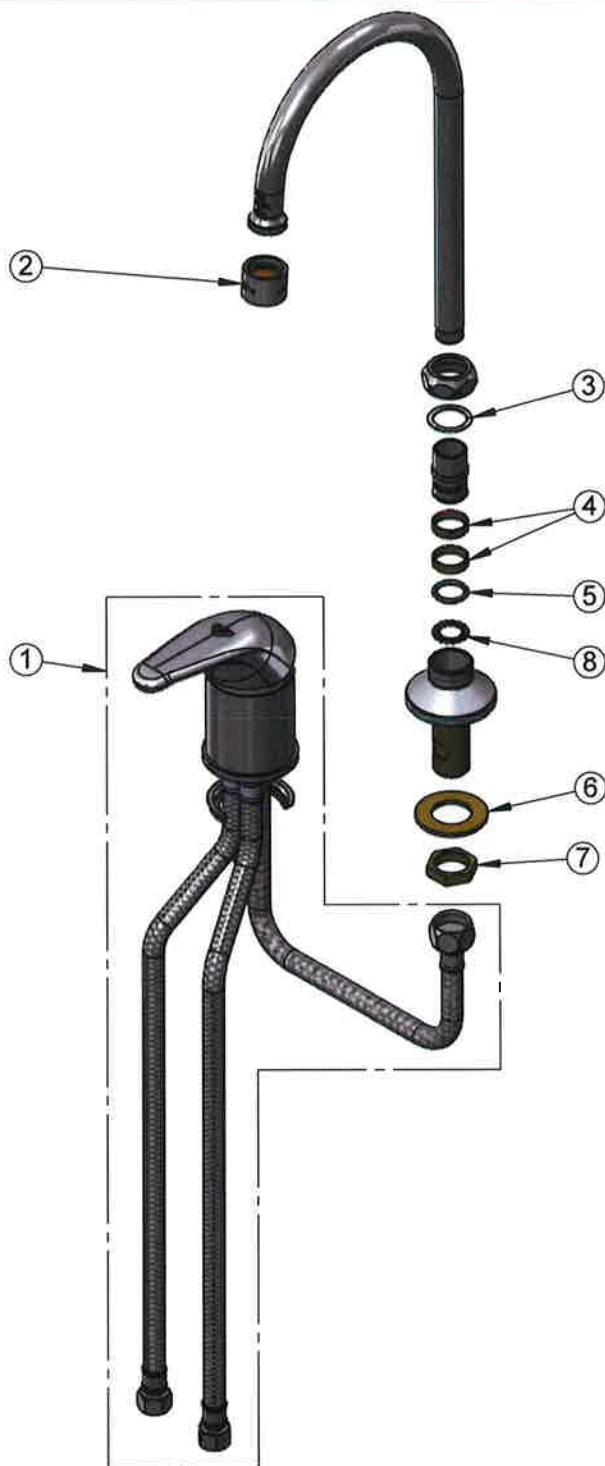
2 Saddleback Cove / P.O. Box 1088
Travelers Rest, SC 29690

Model No.

B-2741

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	B-2740	Side Mount Single Lever Control Faucet
2	B-0199-06	VR 2.2 GPM Aerator, 55/64-27 UN Female w/ Key
3	009538-45	Swivel Washer
4	011429-45	Swivel Sleeves (2)
5	001074-45	O-Ring
6	000999-45	Brass Lock Washer
7	002954-45	Shank Lock Nut
8	014200-45	Star Washer, Anti-Rotation



015425-45
Vandal Resistant Key

Product Specifications:

Single Lever Side Mount Remote On/Off Control Base Faucet, Ceramic Cartridge, Swivel Gooseneck, Vandal Resistant 2.2 GPM Aerator & (2) 16" Flexible Stainless Steel Supply Hoses

Product Compliance:

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



T&S BRASS AND BRONZE WORKS, INC.

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

Model No.

B-0199-07

Item No.

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

This Space for Architect/Engineer Approval

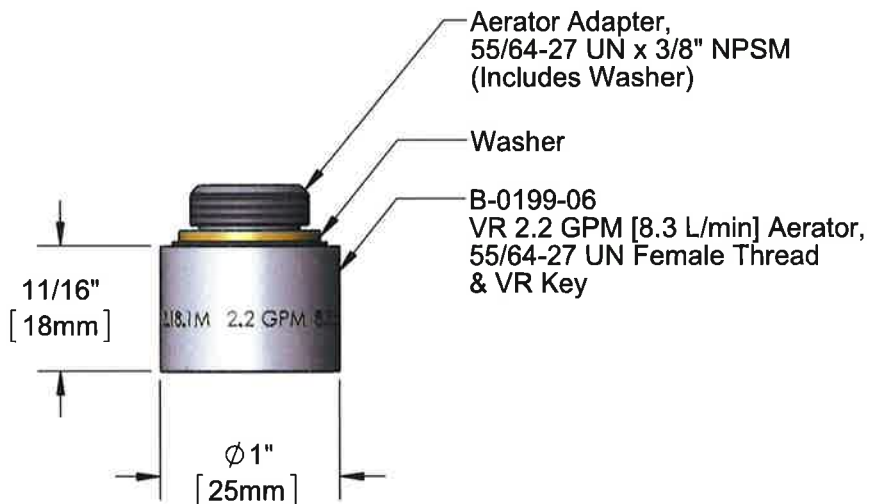
Job Name _____ Date _____

Model Specified _____ Quantity _____

Customer/Wholesaler _____

Contractor _____

Architect/Engineer _____



Product Specifications:

VR 2.2 GPM [8.3 L/min] Aerator, 3/8" NPSM Male Thread & VR Key

Product Compliance:

ASME A112.18.1 / CSA B125.1
NSF 61 - Section 9
NSF 372 (Low Lead Content)



T&S BRASS AND BRONZE WORKS, INC.

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

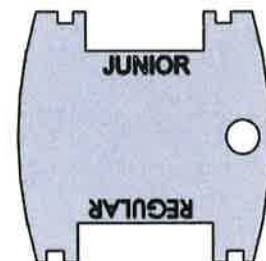
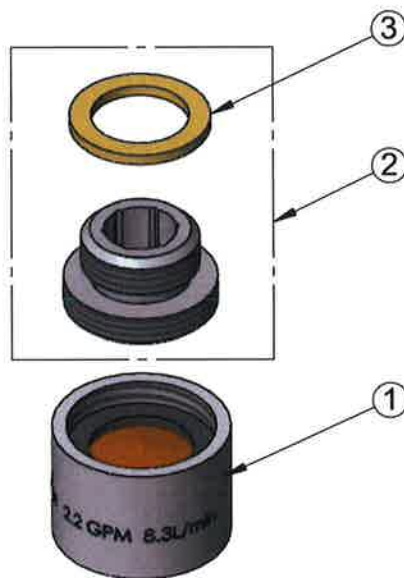
Model No.

B-0199-07

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	B-0199-06	VR 2.2 GPM Aerator, 55/64-27 UN Female w/ Key
2	044A	3/8" to Aerator Adapter
3	001043-45	Washer



015425-45
Vandal Resistant Key
(Included)

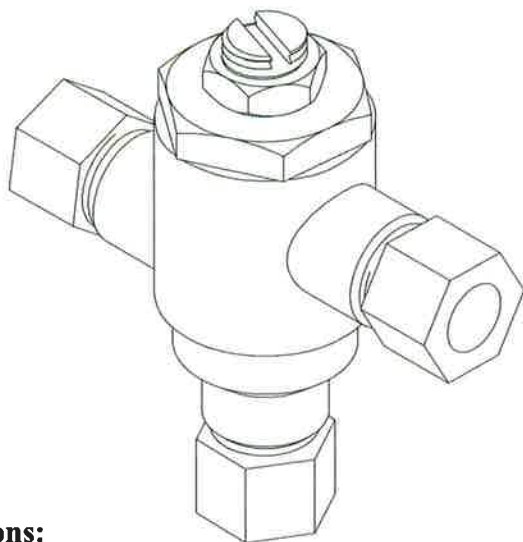
Product Specifications:

VR 2.2 GPM [8.3 L/min] Aerator, 3/8" NPSM Male Thread & VR Key

Product Compliance:

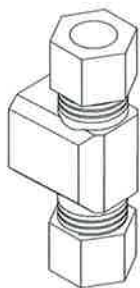
ASME A112.18.1 / CSA B125.1
NSF 61 - Section 9
NSF 372 (Low Lead Content)

170A-LF



Options:

- ___ STSTL REC- Stainless steel cabinet, #4 finish, recessed
- ___ STSTL EXP- Stainless steel cabinet, #4 finish, exposed
- ___ BWE REC- Steel cabinet, baked white, recessed
- ___ BWE EXP- Steel cabinet, baked white, exposed
- ___ BP- Cold water By-Pass (shipped loose)
- ___ BRKT- mounting bracket (shipped loose)
- ___ CP- Chrome plated finish



BP option



BRKT option



WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer. For more information, go to www.P66Warnings.com

* This product is certified to meet Low Lead requirements of wetted surface area containing less than 0.25% lead by weight

Application:

The Model 170A-LF is a high performance thermostatic temperature limiting device used to supply single outlets. Can be used to supply one sensor faucet or one two handle manual faucet.

Features:

- Certified to ASSE 1070 to control down to 0.25 GPM
- Eco-Mix Certified Lead-Free* construction
- Integral inlet checks and stainless steel screens
- Vandal resistant locknut to prevent accidental adjustment
- Easy 3/8" tubing or flex hose installation

Specifications:

- Minimum flow: 0.25 GPM (0.95 l/Min) Certified to ASSE
- Maximum flow: 4 GPM
- Maximum pressure: 125 PSI (8.6 BAR)
- Maximum hot water temperature: 180°F (82°C)
- Hot water inlet temperature range: 120-180°F (49-82°C)
- Cold water inlet temperature range: 33-80°F (1-27°C)
- Temperature adjustment range: 95-120°F (35-49°C)

Certifications:

ASSE 1070-2015

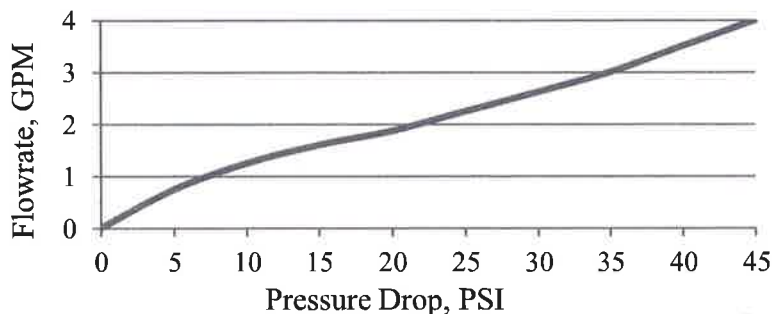


CSA B125.70-15



Certified to NSF61 thru the ASSE 1070 testing process

PRESSURE DROP						
5	10	15	20	30	45	PSI
.35	.70	1.05	1.4	2.1	3.1	BAR
0.75	1.25	1.6	1.88	2.63	4	GPM
2.84	4.73	6.06	7.1	10	15	L/MIN



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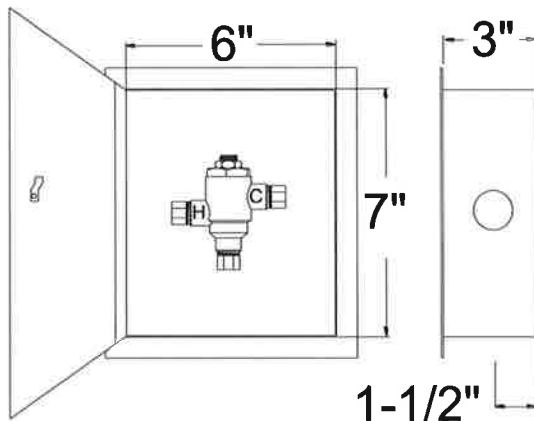
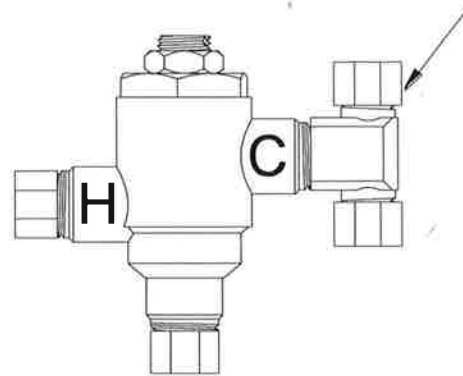
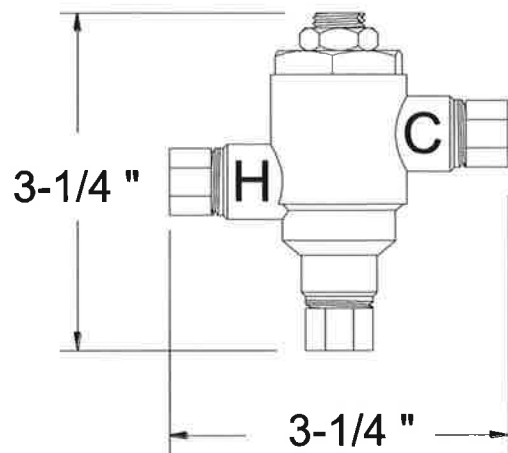
Phone: 401.461.1200 Fax: 401.941.5310

Email: info@leonardvalve.com

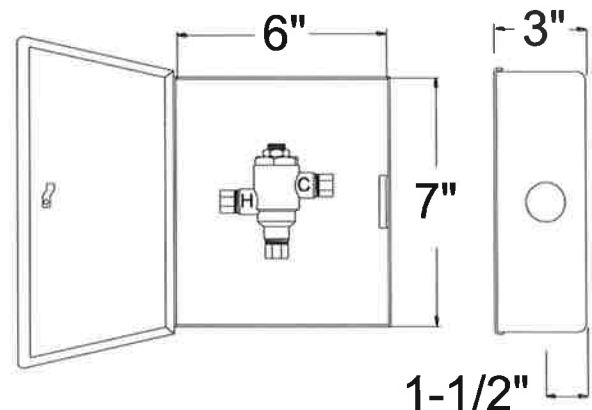
Web Site: <http://www.leonardvalve.com>

Engineer's Approval	Job # _____
	Arch/Eng. _____
	Contractor _____

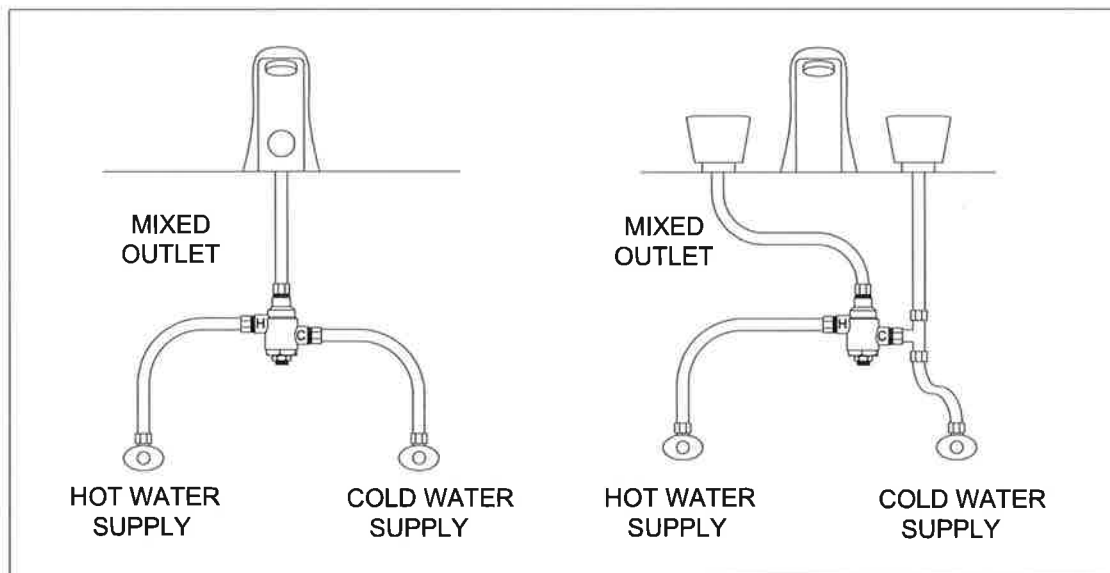
BP-OPTION



170A-LF-REC



170A-LF-EXP



170A-LF

170A-LF-BP



Note: Leonard Valve Company reserves the right of product, or design modifications without notice or obligation.

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Phone: 401.461.1200 Fax: 401.941.5310

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McGuire Manufacturing Co., Inc.

60 Grandview Court
P.O. Box 746 ♣ Cheshire, CT 06410
203-699-1801 ♣ Fax: 203-699-1813
www.mcguiremfg.com

PRODUCT SPECIFICATION

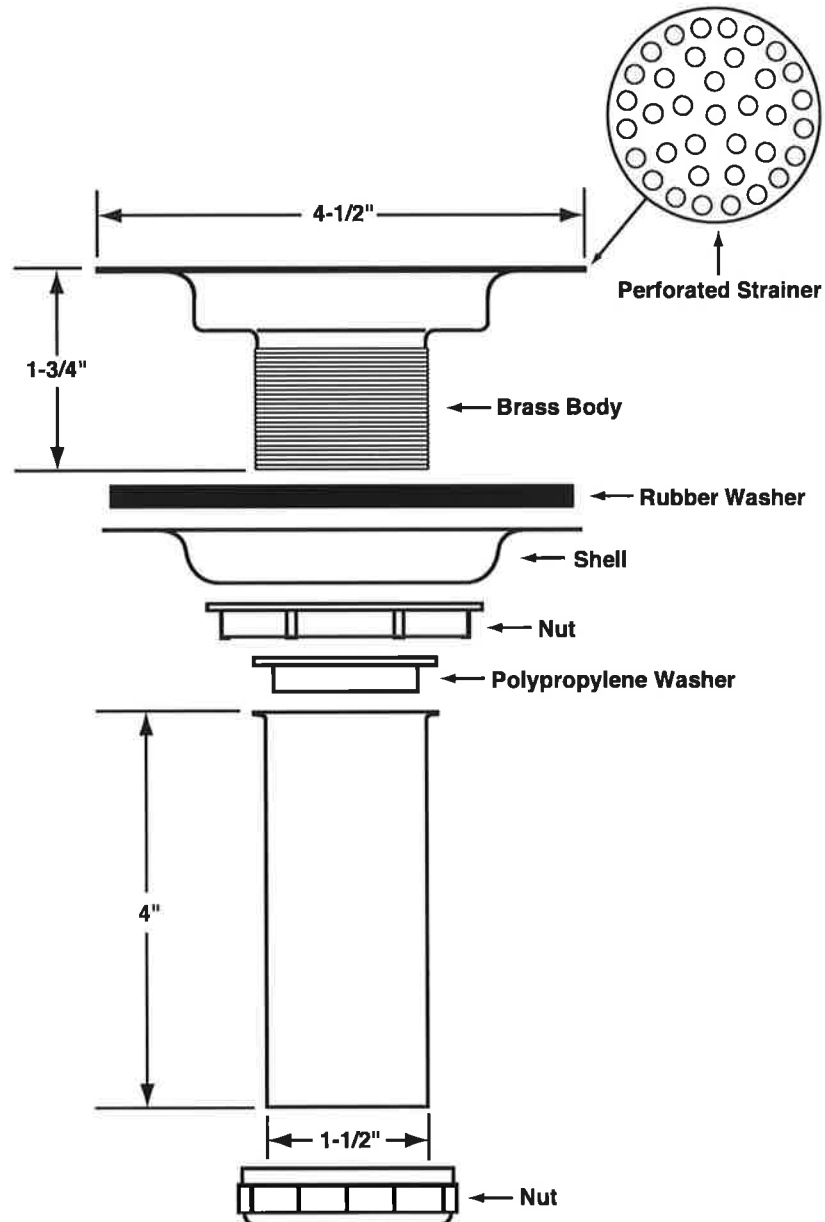
Part No.

152

**Wide Top Sink
Strainer**

Job Name:

Submittal Number:



See options and accessories section for details on product variations.

Specifications:

Wrought Brass Chrome Plated Wide Top Sink Strainer with 1-1/2" x 4" seamless brass tailpiece.
Fits sink thickness up to 3/4 inch.



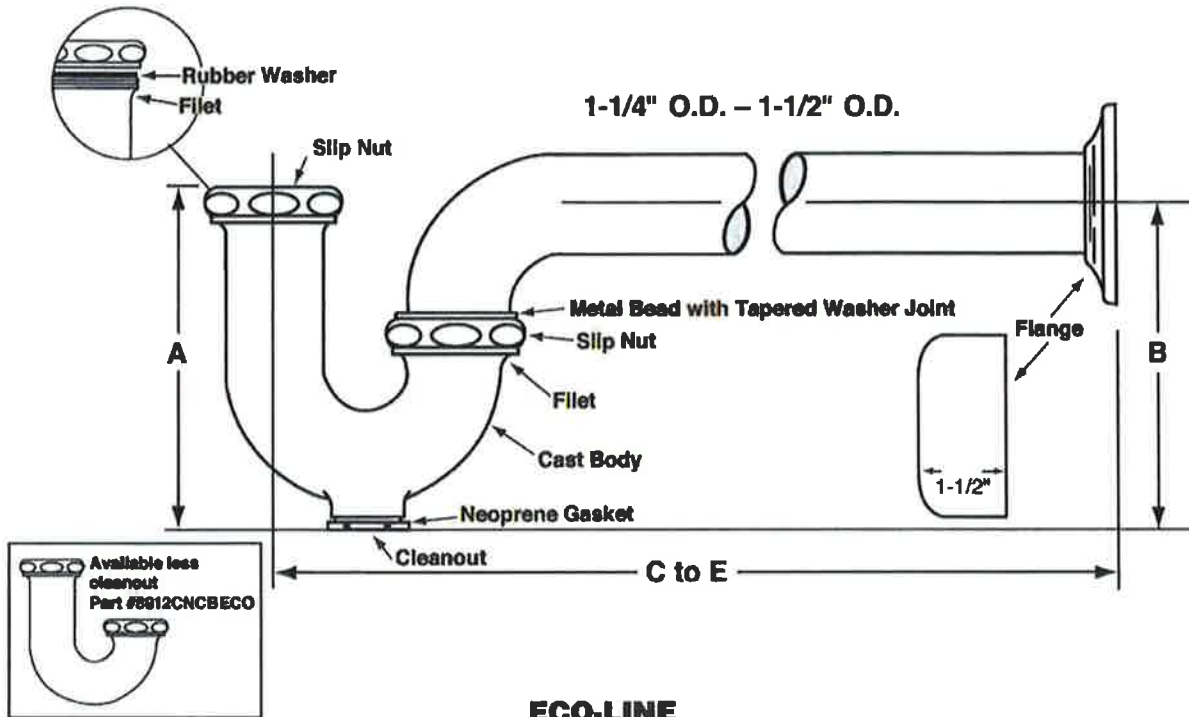
McGuire Manufacturing Co., Inc.
 60 Grandview Court
 P.O. Box 746 ♣ Cheshire, CT 06410
 203-699-1801 ♣ Fax: 203-699-1813
 www.mcguiremfg.com

PRODUCT SPECIFICATION

Part No.
 8872CBECO, C8872CECO,
 8912CBECO, **C8912CECO**,
 8912CNCBECO, 8912C18BECO
**Cast Body P-Trap With
 or Without Cleanout**

Job Name:

Submittal Number:



ECO-LINE

ROUGHING MEASUREMENTS

MODEL NO.	TRAP DIMENSIONS		A	B	C to E	FLANGE	SLIP NUT
	INLET	OUTLET					
8872CBECO	1-1/4"	1-1/4"	5"	4-1/2"	11"	Box	Brass
C8872CECO	1-1/4"	1-1/4"	5"	4-1/2"	10"	Shallow	Zinc
8912CBECO	1-1/2", 1-1/4"	1-1/2"	5"	4-1/2"	12"	Box	Brass
C8912CECO	1-1/2"	1-1/2"	5"	4-1/2"	10-1/2"	Shallow	Zinc
8912CNCBECO	1-1/2", 1-1/4"	1-1/2"	5"	4-1/2"	12"	Box	Brass
8912C18BECO	1-1/2", 1-1/4"	1-1/2"	5"	4-1/2"	18"	Box	Brass

**FED SPEC W.W.P. 541
 CAST BRASS P-TRAP
 MINIMUM SEAL 2"**



See options and accessories section for details on product variations.

Specifications:

Chrome plated P-Trap shall be cast brass body, with or without cleanout, with 17 gauge seamless tubular wall bend and flange.

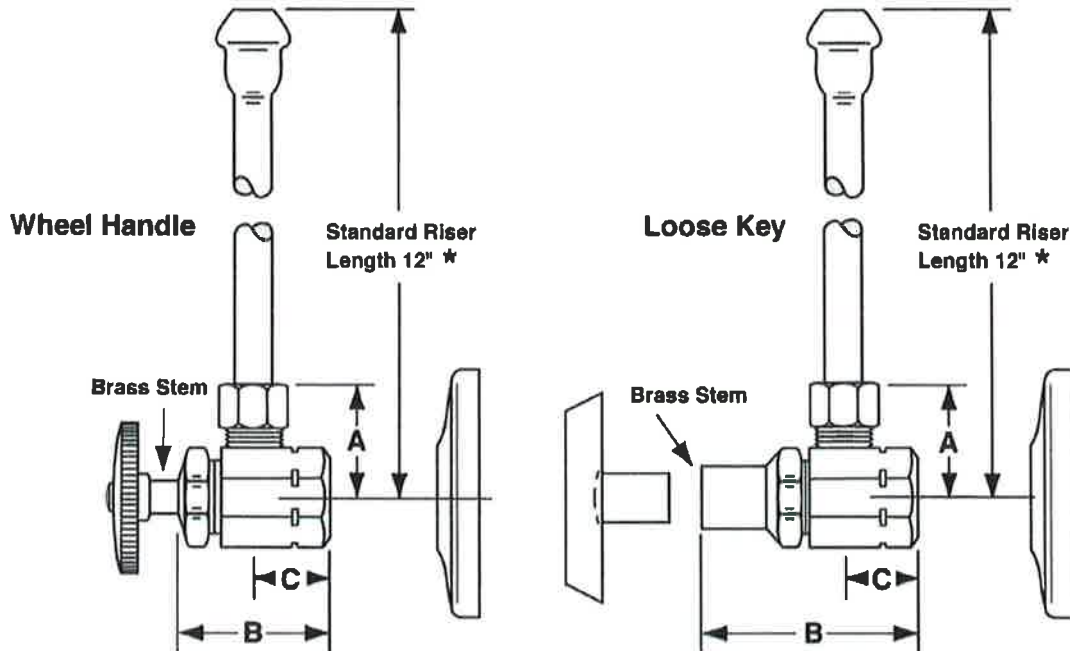
**McGuire Manufacturing Co., Inc.**

60 Grandview Court
P.O. Box 746 • Cheshire, CT 06410
203-699-1801 • Fax: 203-699-1813
www.mcguiremfg.com

PRODUCT SPECIFICATION**Part No.**

LF2165, **LF2165LK**,
LF2167, LF2167LK

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"
➤ LF2165LK	1/2" I.P.S. x 3/8" O.D.	1-3/16"	2-1/4"	3/4"
LF2167	1/2" I.P.S. x 1/2" O.D.	1-3/16"	1-1/2"	3/4"
LF2167LK	1/2" I.P.S. x 1/2" O.D.	1-3/16"	2-1/4"	3/4"

LK designates Loose Key

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

**Specifications:**

Supply kit shall include low lead 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 low lead certified by recognized authority and bear manufacturer and testing mark.

P-4

PRODUCT SPECIFICATIONS

Elkay Lustertone™ Classic Stainless Steel 19-1/2" x 19" x 5-1/2" Single Bowl Drop-in ADA Sink. Sink is manufactured from 18 gauge 304 Stainless Steel with a Lustrous Satin finish, Rear Center drain placement, and Bottom only pads.

Installation Type:	Drop-in
Material:	304 Stainless Steel
Finish:	Lustrous Satin
Gauge:	18
Sound Deadening:	Bottom only pads
Number of Bowls:	1
Sink Dimensions:	19-1/2" x 19" x 5-1/2"
Bowl 1 Dimensions:	16" x 13-1/2" x 5-3/8"
Drain Size:	3-1/2" (89mm)
Drain Location:	Rear Center
Minimum Cabinet Size:	24"
Mounting Hardware:	Part # 64090012 included for countertops up to 3/4" (19mm) thick
Template Included:	No
Cutout Template #:	1000001259

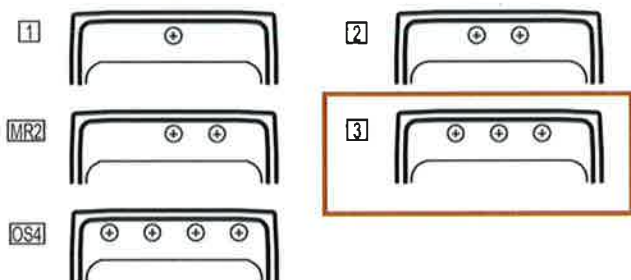
Template is available for download at elkay.com. CAD software will be required to open the template.

Cutout Dimensions for Drop-in Installation:

18-7/8" x 18-3/8" (479mm x 467mm) with 1-1/2" (38mm) corner radius

Hole Drilling Configurations:

1-1/2" (38mm) Diameter Faucet Holes on 4" (102mm) Centers



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



Sinks are listed by IAPMO® as meeting the applicable requirements of the Uniform Plumbing Code®, International Plumbing Code®, and National Plumbing Code of Canada.



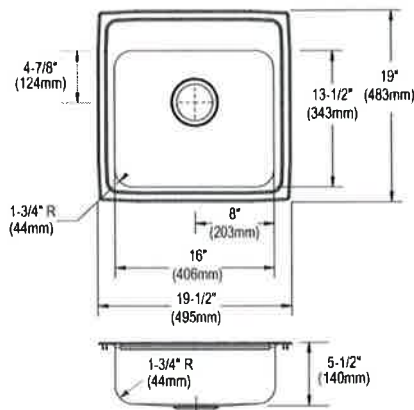
Complies with ADA & ICC A117.1 accessibility requirements when installed according to the requirements outlined in these standards.

[Clean and Care Manual \(PDF\)](#)

[Installation Instructions \(PDF\) - 1000005236](#)

[Warranty \(PDF\)](#)

Similar models are available with: 4" 4-1/2" 5" 6" and 6-1/2" depths, CuVerro antimicrobial copper, Quick-Clip Mounting System



PART: _____ QTY: _____
PROJECT: _____
CONTACT: _____
DATE: _____
NOTES: _____
APPROVAL: _____

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.

**T&S BRASS AND BRONZE WORKS, INC.**2 Saddleback Cove / P.O. Box 1088
Travelers Rest, SC 29690

Model No.

B-2866-05FC-CR

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

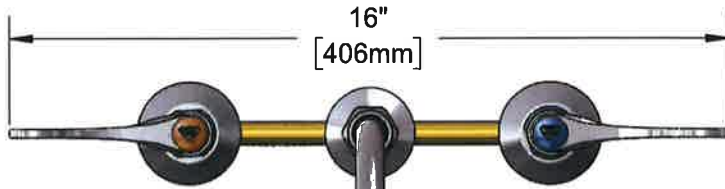
Job Name _____ Date _____

Model Specified _____ Quantity _____

Customer/Wholesaler _____

Contractor _____

Architect/Engineer _____

133XP-F15
Swivel Gooseneck w/
1.5 GPM Flow Control Device.
Rigid Conversion Requires
014200-45 Lock Washer
(Included)

Swivel Joint

 $\phi 2"$
[51mm]
Swivel Deck
FlangeQuarter-Turn
Cerama Cartridges w/
Check Valves &
4" Wrist Action Handles
w/ Color Coded Indexes6 11/16"
[169mm]4 3/16"
[107mm]Mounting
Surface $\phi 2 \frac{1}{4}"$
[57mm]
Escutcheons8"
[203mm]1 1/4"
[31mm]
Maximum
Thickness1/2" NPT
Male Inlets w/
Coupling Nuts5 11/16"
[144mm]10 11/16"
[271mm]**Rough-In Requirement:**Center Shank: $\phi 1"$ [25mm] Mounting HoleHot/Cold Side: $\phi 1 \frac{1}{2}"$ [38mm] Mounting Holes**Product Specifications:**

8" Deck Mount EasyInstall Mixing Faucet, Quarter-Turn Cerama Cartridges w/ Check Valves, 4" Wrist Action Handles, 5 11/16" Swivel/Rigid Gooseneck w/ Plain End Outlet, 1.5 GPM Flow Control Device & 1/2" NPT Male Inlets

Product Compliance:ASME A112.18.1 / CSA B125.1
NSF 61 - Section 9
NSF 372 (Low Lead Content)
ANSI A117.1 (ADA)

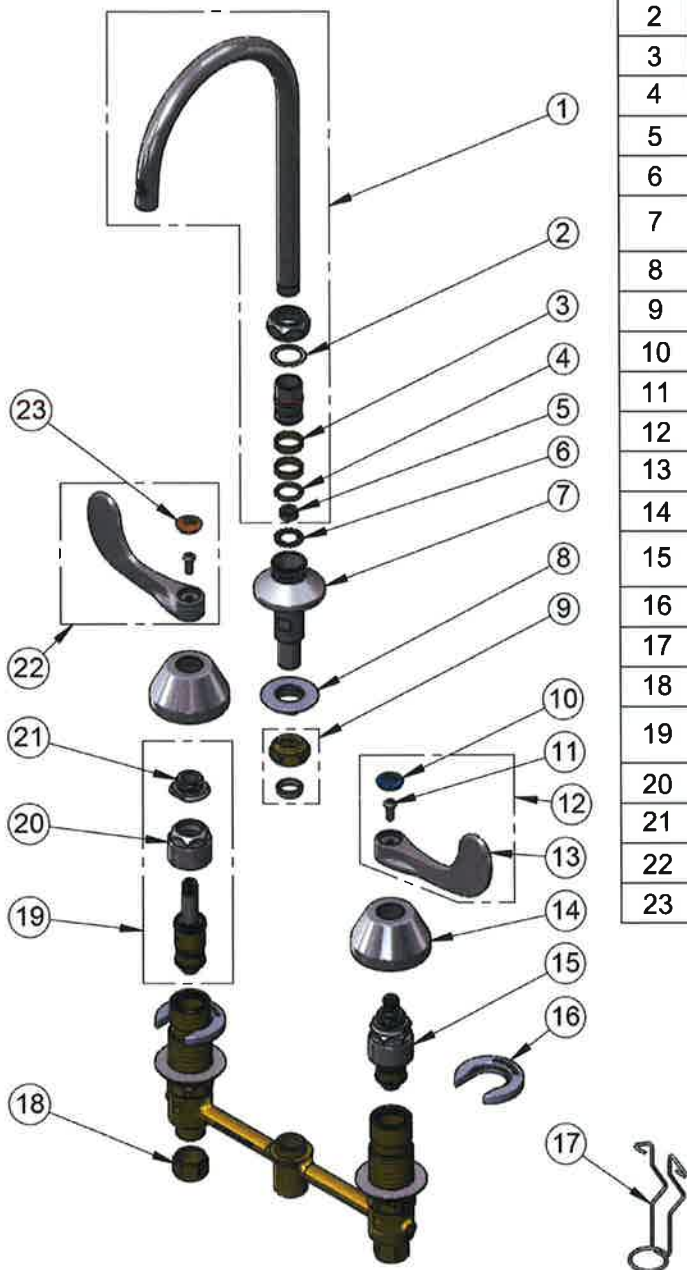
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B-2866-05FC-CR

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



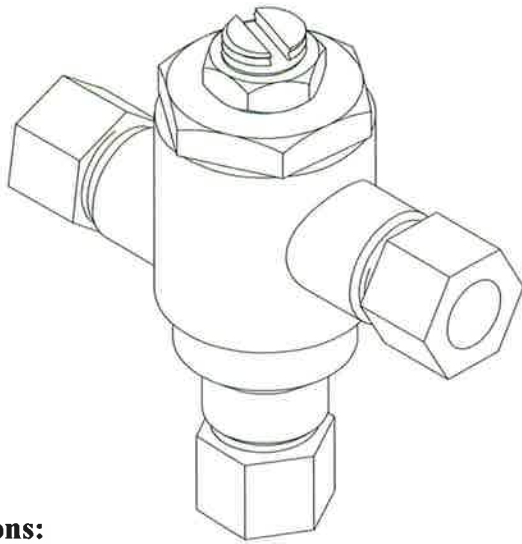
ITEM NO.	SALES NO.	DESCRIPTION
1	133XP-F15	6" Swivel Gooseneck w/ 1.5 GPM Flow Control Device
2	009538-45	Swivel Washer
3	011429-45	Swivel Sleeves (2)
4	001074-45	O-Ring
5	FD15	Flow Disc, 1.5 GPM [5.68 L/MIN]
6	014200-45	Star Washer, Anti-Rotation
7	016754-40NS	EasyInstall CWS Swivel Center (New Style)
8	016742-45	Center Flange Nut
9	016745-45	Compression Nut & Fitting
10	018506-19NS	Blue Button Index, Press-in
11	000925-45	Lab Handle Screw
12	B-WH4C-NS	Wrist Action Handle, Blue Index & Screw
13	B-WH4-NS	Wrist Action Handle - New Style
14	001257-40NS	Bell Escutcheon
15	016768-25NS	EasyInstall, CWS Quarter-Turn Cerama Cartridge w/ Check Valve, LTC
16	016749-45	Sidebody C-Washer
17	016777-45	CWS Hanger
18	000958-20	Coupling Nut
19	016767-25NS	EasyInstall, CWS Quarter-Turn Cerama Cartridge w/ Check Valve, RTC
20	016743-25	CWS Bonnet
21	009002-40NS	Packing Assembly (New Style)
22	B-WH4H-NS	Wrist Action Handle, Red Index & Screw
23	001193-19NS	Red Button Index, Press-in

017245-40
Installation Repair Kit
Includes #8, (2)#16 & #17**Product Specifications:**

8" Deck Mount EasyInstall Mixing Faucet, Quarter-Turn Cerama Cartridges w/ Check Valves, 4" Wrist Action Handles, 5 11/16" Swivel/Rigid Gooseneck w/ Plain End Outlet, 1.5 GPM Flow Control Device & 1/2" NPT Male Inlets

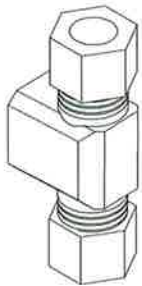
Product Compliance:ASME A112.18.1 / CSA B125.1
NSF 61 - Section 9
NSF 372 (Low Lead Content)
ANSI A117.1 (ADA)

170A-LF



Options:

- ☐ STSTL REC- Stainless steel cabinet, #4 finish, recessed
- ☐ STSTL EXP- Stainless steel cabinet, #4 finish, exposed
- ☐ BWE REC- Steel cabinet, baked white, recessed
- ☐ BWE EXP- Steel cabinet, baked white, exposed
- ☐ BP- Cold water By-Pass (shipped loose)
- ☐ BRKT- mounting bracket (shipped loose)
- ☐ CP- Chrome plated finish



BP option



BRKT option



WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer. For more information, go to www.P66Warnings.ca.gov

* This product is certified to meet Low Lead requirements of wetted surface area containing less than 0.25% lead by weight

Application:

The Model 170A-LF is a high performance thermostatic temperature limiting device used to supply single outlets. Can be used to supply one sensor faucet or one two handle manual faucet.

Features:

- Certified to ASSE 1070 to control down to 0.25 GPM
- Eco-Mix Certified Lead-Free* construction
- Integral inlet checks and stainless steel screens
- Vandal resistant locknut to prevent accidental adjustment
- Easy 3/8" tubing or flex hose installation

Specifications:

- Minimum flow: 0.25 GPM (0.95 l/Min) Certified to ASSE
- Maximum flow: 4 GPM
- Maximum pressure: 125 PSI (8.6 BAR)
- Maximum hot water temperature: 180°F (82°C)
- Hot water inlet temperature range: 120-180°F (49-82°C)
- Cold water inlet temperature range: 33-80°F (1-27°C)
- Temperature adjustment range: 95-120°F (35-49°C)

Certifications:

ASSE 1070-2015

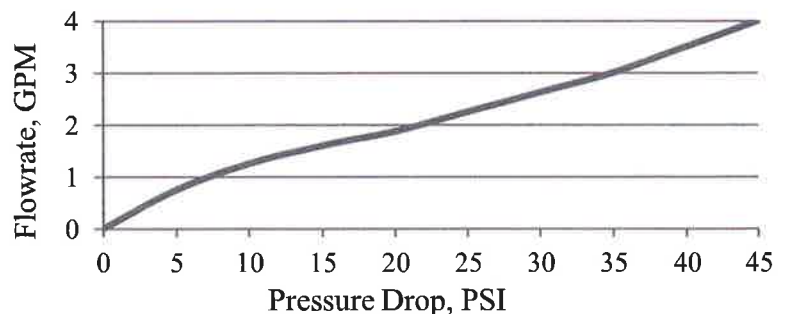


CSA B125.70-15



Certified to NSF61 thru the ASSE 1070 testing process

PRESSURE DROP						
5	10	15	20	30	45	PSI
.35	.70	1.05	1.4	2.1	3.1	BAR
0.75	1.25	1.6	1.88	2.63	4	GPM
2.84	4.73	6.06	7.1	10	15	L/MIN



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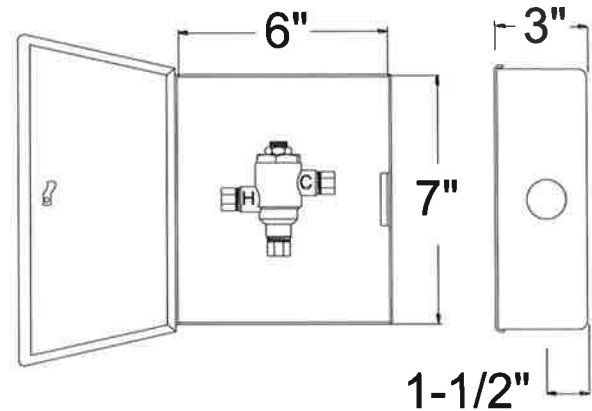
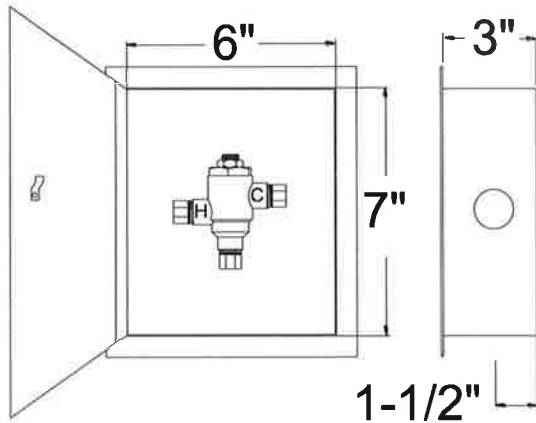
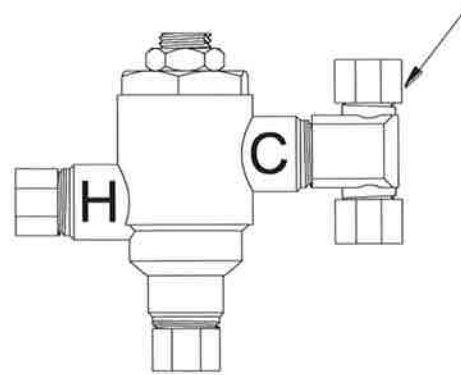
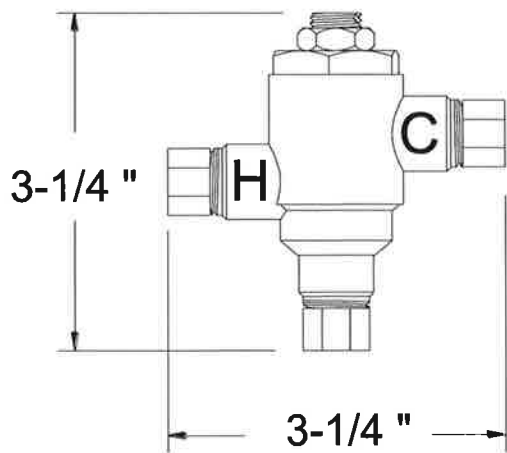
Engineer's Approval

Job # _____

Arch/Eng. _____

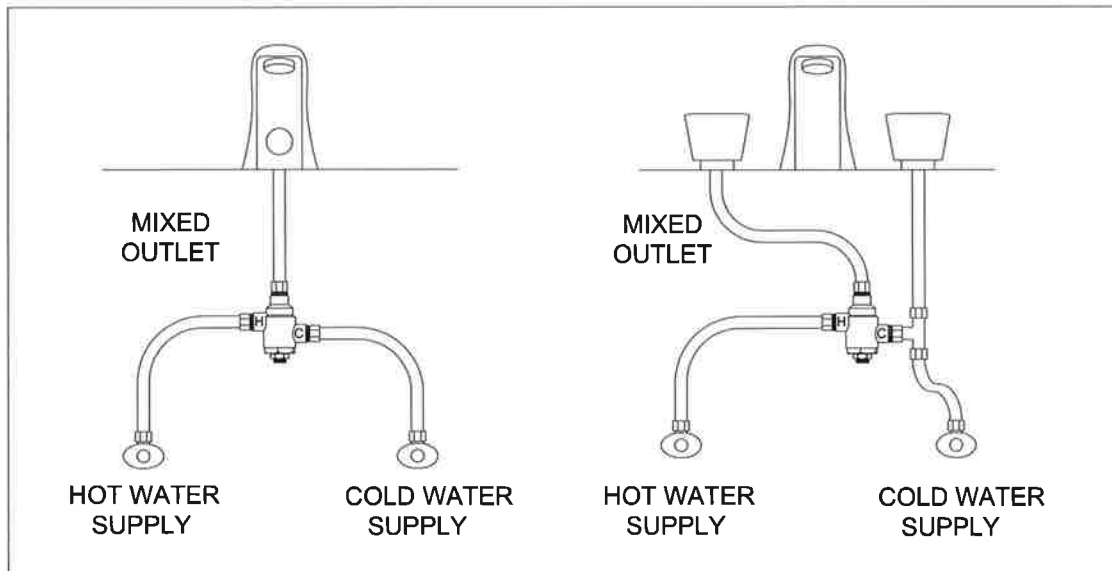
Contractor _____

BP-OPTION



170A-LF-REC

170A-LF-EXP



170A-LF

170A-LF-BP



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PRODUCT SPECIFICATION

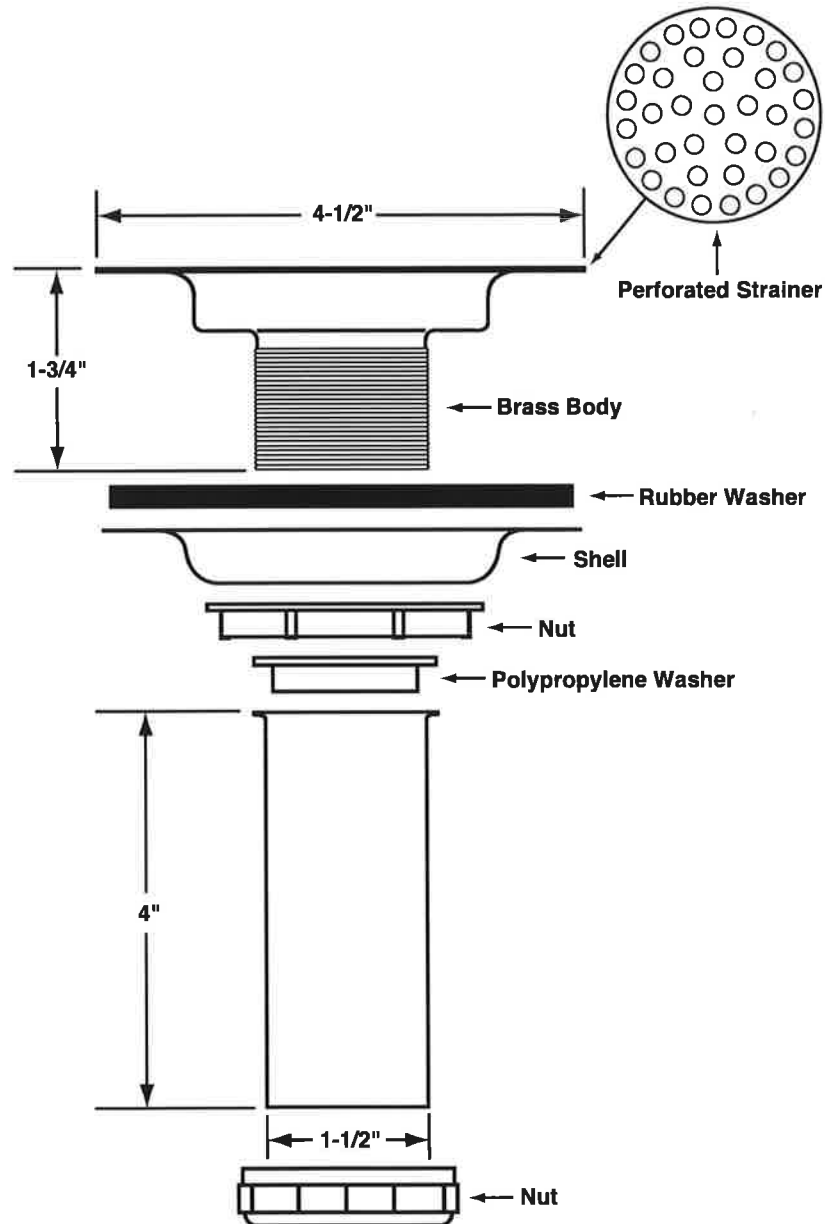
Part No.

152

**Wide Top Sink
Strainer**

Job Name:

Submittal Number:



See options and accessories section for details on product variations.

Specifications:

Wrought Brass Chrome Plated Wide Top Sink Strainer with 1-1/2" x 4" seamless brass tailpiece.
Fits sink thickness up to 3/4 inch.



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PRODUCT SPECIFICATION

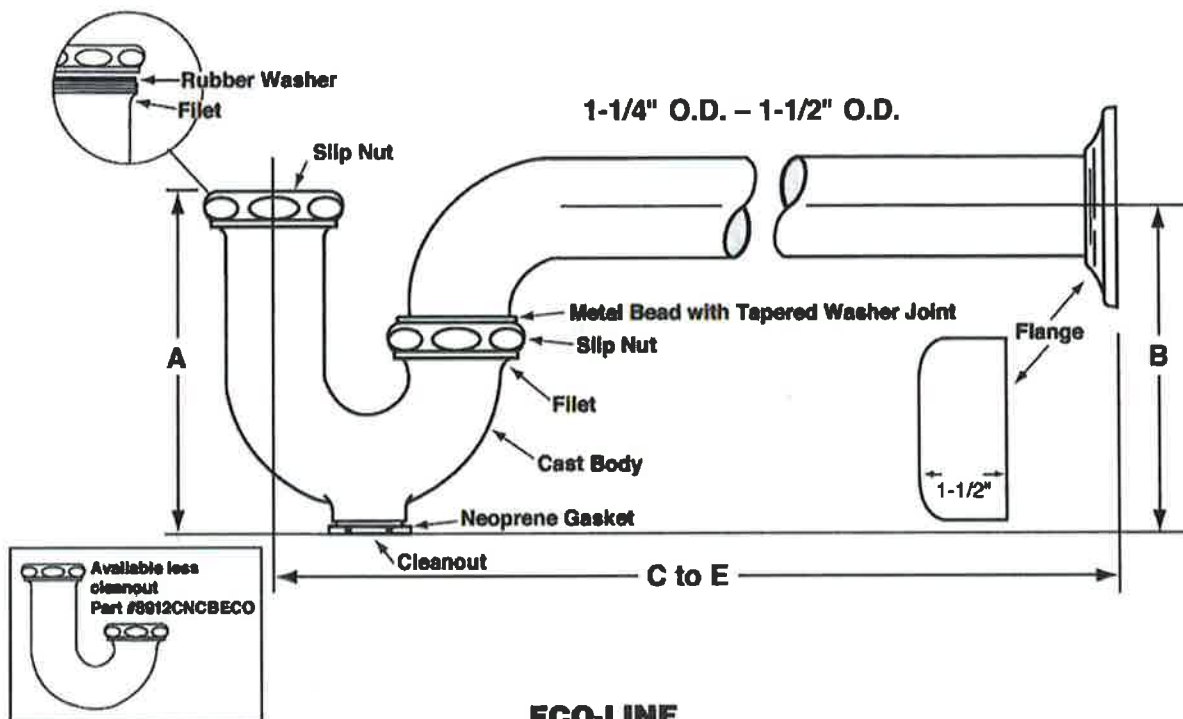
Part No.

8872CBECO, C8872CECO,
8912CBECO, **C8912CECO**,
8912CNCBECO, 8912C18BECO

Cast Body P-Trap With
or Without Cleanout

Job Name: _____

Submittal Number: _____



ECO-LINE

ROUGHING MEASUREMENTS

MODEL NO.	TRAP DIMENSIONS		A	B	C to E	FLANGE	SLIP NUT
	INLET	OUTLET					
8872CBECO	1-1/4"	1-1/4"	5"	4-1/2"	11"	Box	Brass
C8872CECO	1-1/4"	1-1/4"	5"	4-1/2"	10"	Shallow	Zinc
8912CBECO	1-1/2", 1-1/4"	1-1/2"	5"	4-1/2"	12"	Box	Brass
C8912CECO	1-1/2"	1-1/2"	5"	4-1/2"	10-1/2"	Shallow	Zinc
8912CNCBECO	1-1/2", 1-1/4"	1-1/2"	5"	4-1/2"	12"	Box	Brass
8912C18BECO	1-1/2", 1-1/4"	1-1/2"	5"	4-1/2"	18"	Box	Brass

FED SPEC W.W.P. 541
CAST BRASS P-TRAP
MINIMUM SEAL 2"

See options and accessories section for details on product variations.



Specifications:

Chrome plated P-Trap shall be cast brass body, with or without cleanout, with 17 gauge seamless tubular wall bend and flange.

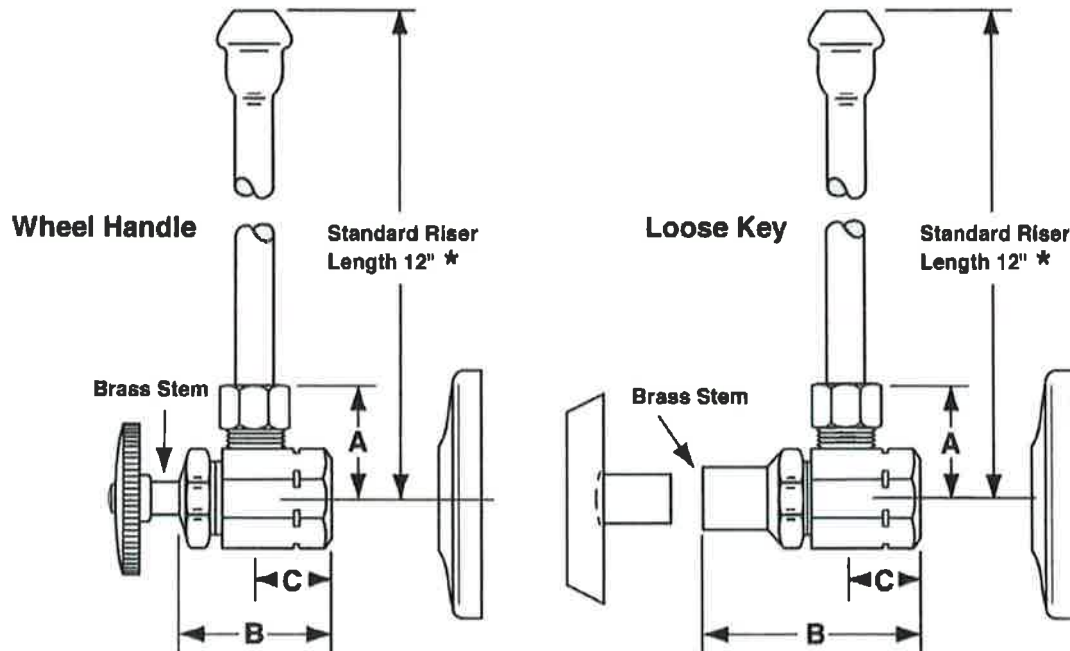
**McGuire Manufacturing Co., Inc.**

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P.O. Box 746 • Cheshire, CT 06410
203-699-1801 • Fax: 203-699-1813
www.mcguiremfg.com

PRODUCT SPECIFICATION**Part No.**

LF2165, **LF2165LK**,
LF2167, LF2167/LK

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"
➤ LF2165LK	1/2" I.P.S. x 3/8" O.D.	1-3/16"	2-1/4"	3/4"
LF2167	1/2" I.P.S. x 1/2" O.D.	1-3/16"	1-1/2"	3/4"
LF2167LK	1/2" I.P.S. x 1/2" O.D.	1-3/16"	2-1/4"	3/4"

LK designates Loose Key

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

**Specifications:**

Supply kit shall include low lead 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 low lead certified by recognized authority and bear manufacturer and testing mark.

P-5

PRODUCT SPECIFICATIONS

Elkay Lustertone™ Classic Stainless Steel 19-1/2" x 19" x 10-1/8"
Single Bowl Drop-in Laundry Sink. Sink is manufactured from 18 gauge
304 Stainless Steel with a Lustrous Satin finish, Center drain
placement, and Sides and Bottom pads.

Installation Type:	Drop-in
Material:	304 Stainless Steel
Finish:	Lustrous Satin
Gauge:	18
Sound Deadening:	Sides and Bottom pads
Number of Bowls:	1
Sink Dimensions:	19-1/2" x 19" x 10-1/8"
Bowl 1 Dimensions:	16" x 13-1/2" x 10"
Drain Size:	3-1/2" (89mm)
Drain Location:	Center
Minimum Cabinet Size:	24"
Mounting Hardware:	Part # 64090012 included for countertops up to 3/4" (19mm) thick
Template Included:	No
Cutout Template #:	1000001259

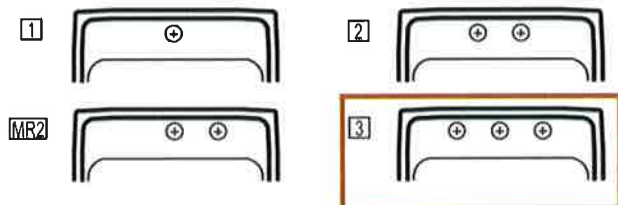
Template is available for download at elkay.com. CAD software will be required to open the template.

Cutout Dimensions for Drop-in Installation:

18-7/8" x 18-3/8" (479mm x 467mm) with 1-1/2" (38mm) corner radius

Hole Drilling Configurations:

1-1/2" (38mm) Diameter Faucet Holes on 4" (102mm) Centers



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: ASME A112.19.3/CSA B45.4
Buy American Act



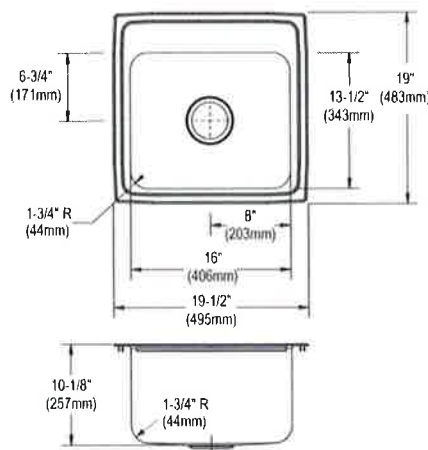
Sinks are listed by IAPMO® as meeting the applicable requirements of the Uniform Plumbing Code®, International Plumbing Code®, and National Plumbing Code of Canada.

[Clean and Care Manual \(PDF\)](#)

[Installation Instructions \(PDF\) - 1000005236](#)

[Warranty \(PDF\)](#)

Similar models are available with: Quick-Clip Mounting System, 316 type steel, CuVerro antimicrobial copper, Perfect Drain



PART: _____ QTY: _____

PROJECT: _____

CONTACT: _____

DATE: _____

NOTES: _____

APPROVAL: _____

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.



T&S BRASS AND BRONZE WORKS, INC.

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

Model No.

B-2866-05FC-CR

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

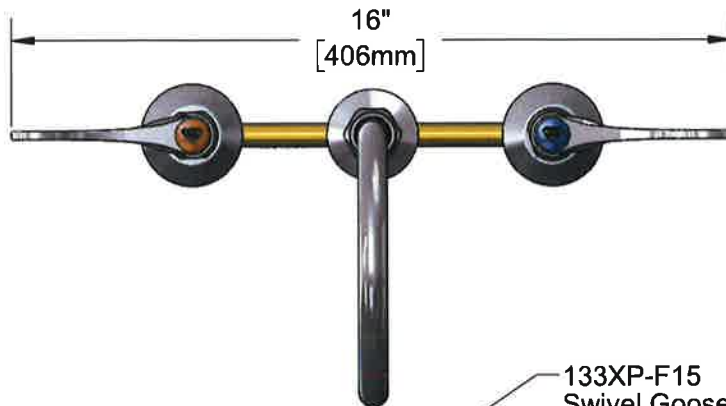
Job Name _____ Date _____

Model Specified _____ Quantity _____

Customer/Wholesaler _____

Contractor _____

Architect/Engineer _____



133XP-F15
Swivel Gooseneck w/
1.5 GPM Flow Control Device.
Rigid Conversion Requires
014200-45 Lock Washer
(Included)

Swivel Joint

Ø 2"
[51mm]
Swivel Deck
Flange

Quarter-Turn
Cerama Cartridges w/
Check Valves &
4" Wrist Action Handles
w/ Color Coded Indexes

6 11/16"
[169mm]

4 3/16"
[107mm]

Mounting
Surface

Ø 2 1/4"
[57mm]
Escutcheons

1 1/4"
[31mm]
Maximum
Thickness

1/2" NPT
Male Inlets w/
Coupling Nuts

10 11/16"
[271mm]

5 11/16"
[144mm]

8"
[203mm]

Rough-In Requirement:
Center Shank: Ø 1" [25mm] Mounting Hole
Hot/Cold Side: Ø 1 1/2" [38mm] Mounting Holes

Product Specifications:

8" Deck Mount EasyInstall Mixing Faucet, Quarter-Turn Cerama Cartridges w/ Check Valves, 4" Wrist Action Handles, 5 11/16" Swivel/Rigid Gooseneck w/ Plain End Outlet, 1.5 GPM Flow Control Device & 1/2" NPT Male Inlets

Product Compliance:

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

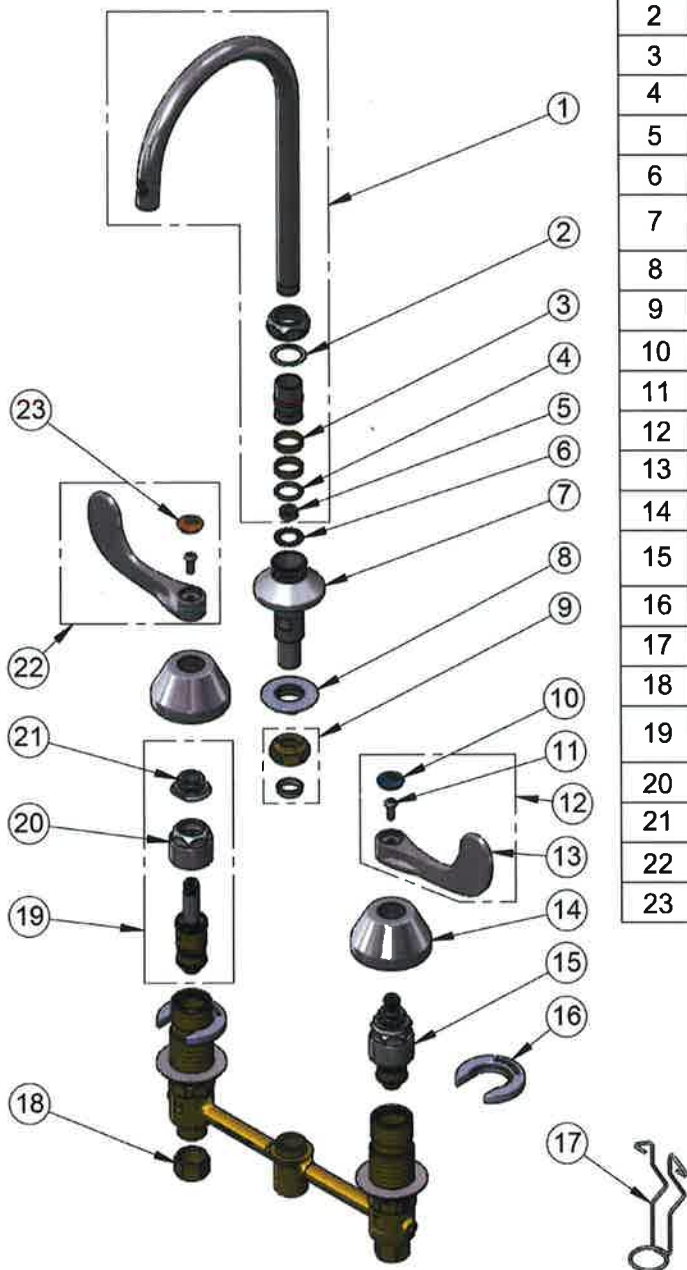
**T&S BRASS AND BRONZE WORKS, INC.**2 Saddleback Cove / P.O. Box 1088
Travelers Rest, SC 29690

Model No.

B-2866-05FC-CR

Item No.

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



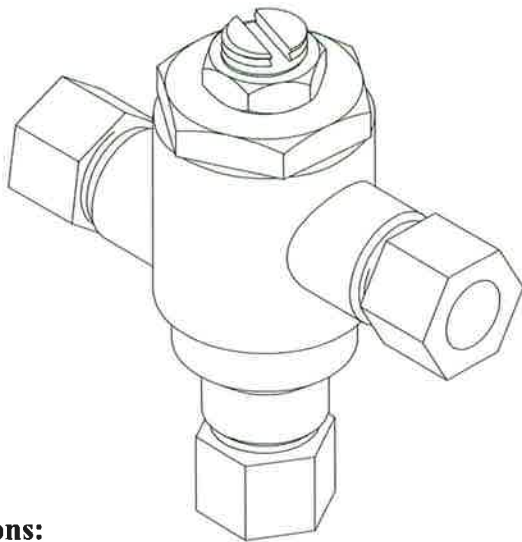
ITEM NO.	SALES NO.	DESCRIPTION
1	133XP-F15	6" Swivel Gooseneck w/ 1.5 GPM Flow Control Device
2	009538-45	Swivel Washer
3	011429-45	Swivel Sleeves (2)
4	001074-45	O-Ring
5	FD15	Flow Disc, 1.5 GPM [5.68 L/MIN]
6	014200-45	Star Washer, Anti-Rotation
7	016754-40NS	EasyInstall CWS Swivel Center (New Style)
8	016742-45	Center Flange Nut
9	016745-45	Compression Nut & Fitting
10	018506-19NS	Blue Button Index, Press-in
11	000925-45	Lab Handle Screw
12	B-WH4C-NS	Wrist Action Handle, Blue Index & Screw
13	B-WH4-NS	Wrist Action Handle - New Style
14	001257-40NS	Bell Escutcheon
15	016768-25NS	EasyInstall, CWS Quarter-Turn Cerama Cartridge w/ Check Valve, LTC
16	016749-45	Sidebody C-Washer
17	016777-45	CWS Hanger
18	000958-20	Coupling Nut
19	016767-25NS	EasyInstall, CWS Quarter-Turn Cerama Cartridge w/ Check Valve, RTC
20	016743-25	CWS Bonnet
21	009002-40NS	Packing Assembly (New Style)
22	B-WH4H-NS	Wrist Action Handle, Red Index & Screw
23	001193-19NS	Red Button Index, Press-in

017245-40
Installation Repair Kit
Includes #8, (2)#16 & #17**Product Specifications:**

8" Deck Mount EasyInstall Mixing Faucet, Quarter-Turn Cerama Cartridges w/ Check Valves, 4" Wrist Action Handles, 5 11/16" Swivel/Rigid Gooseneck w/ Plain End Outlet, 1.5 GPM Flow Control Device & 1/2" NPT Male Inlets

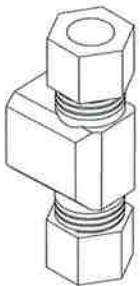
Product Compliance:ASME A112.18.1 / CSA B125.1
NSF 61 - Section 9
NSF 372 (Low Lead Content)
ANSI A117.1 (ADA)

170A-LF

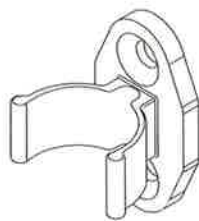


Options:

- ☐ STSTL REC- Stainless steel cabinet, #4 finish, recessed
- ☐ STSTL EXP- Stainless steel cabinet, #4 finish, exposed
- ☐ BWE REC- Steel cabinet, baked white, recessed
- ☐ BWE EXP- Steel cabinet, baked white, exposed
- ☐ BP- Cold water By-Pass (shipped loose)
- ☐ BRKT- mounting bracket (shipped loose)
- ☐ CP- Chrome plated finish



BP option



BRKT option



WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer. For more information, go to www.P66Warnings.ca.gov

* This product is certified to meet Low Lead requirements of wetted surface area containing less than 0.25% lead by weight

Application:

The Model 170A-LF is a high performance thermostatic temperature limiting device used to supply single outlets. Can be used to supply one sensor faucet or one two handle manual faucet.

Features:

- Certified to ASSE 1070 to control down to 0.25 GPM
- Eco-Mix Certified Lead-Free* construction
- Integral inlet checks and stainless steel screens
- Vandal resistant locknut to prevent accidental adjustment
- Easy 3/8" tubing or flex hose installation

Specifications:

- Minimum flow: 0.25 GPM (0.95 l/Min) Certified to ASSE
- Maximum flow: 4 GPM
- Maximum pressure: 125 PSI (8.6 BAR)
- Maximum hot water temperature: 180°F (82°C)
- Hot water inlet temperature range: 120-180°F (49-82°C)
- Cold water inlet temperature range: 33-80°F (1-27°C)
- Temperature adjustment range: 95-120°F (35-49°C)

Certifications:

ASSE 1070-2015

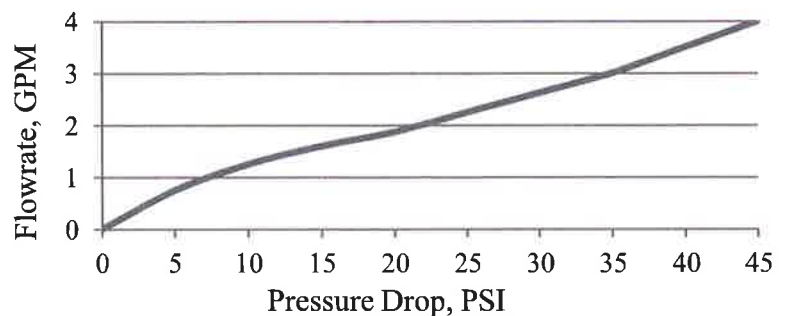


CSA B125.70-15



Certified to NSF61 thru the ASSE 1070 testing process

PRESSURE DROP						
5	10	15	20	30	45	PSI
.35	.70	1.05	1.4	2.1	3.1	BAR
0.75	1.25	1.6	1.88	2.63	4	GPM
2.84	4.73	6.06	7.1	10	15	L/MIN



1360 Elmwood Avenue, Cranston, RI 02910 USA

Phone: 401.461.1200 Fax: 401.941.5310

Email: info@leonardvalve.com

Web Site: <http://www.leonardvalve.com>

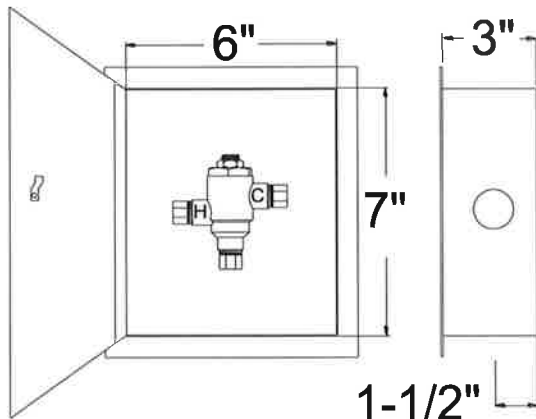
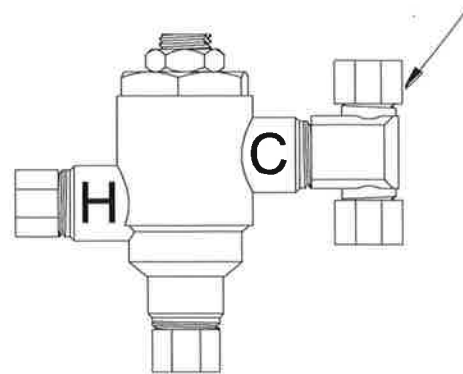
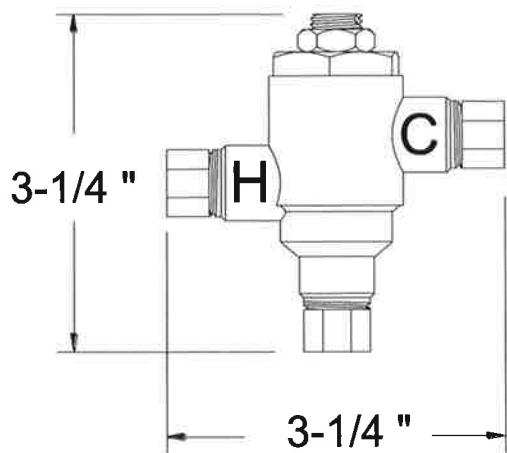
Engineer's Approval

Job # _____

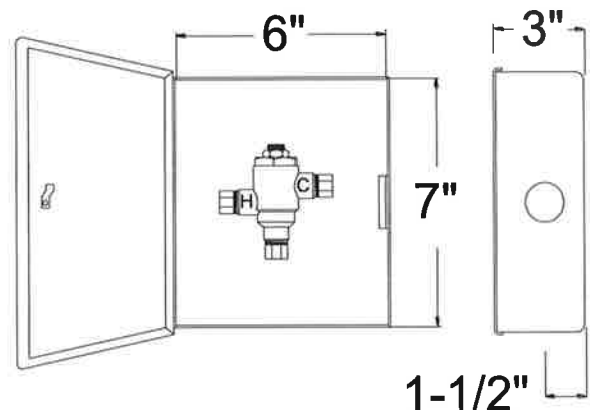
Arch/Eng. _____

Contractor _____

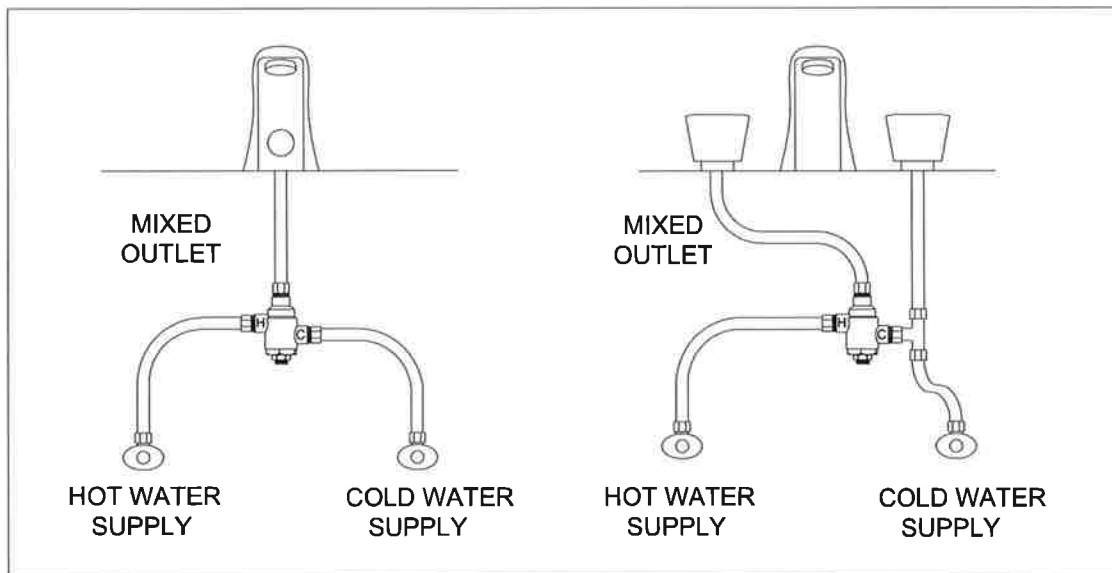
BP-OPTION



170A-LF-REC



170A-LF-EXP



170A-LF

170A-LF-BP



LEONARD
WATER TEMPERATURE CONTROLS

Note: Leonard Valve Company reserves the right of product, or design modifications without notice or obligation.

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Phone: 401.461.1200 Fax: 401.941.5310

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Web Site: <http://www.leonardvalve.com>



McGuire Manufacturing Co., Inc.

60 Grandview Court
P.O. Box 746 ♣ Cheshire, CT 06410
203-699-1801 ♣ Fax: 203-699-1813
www.mcguiremfg.com

PRODUCT SPECIFICATION

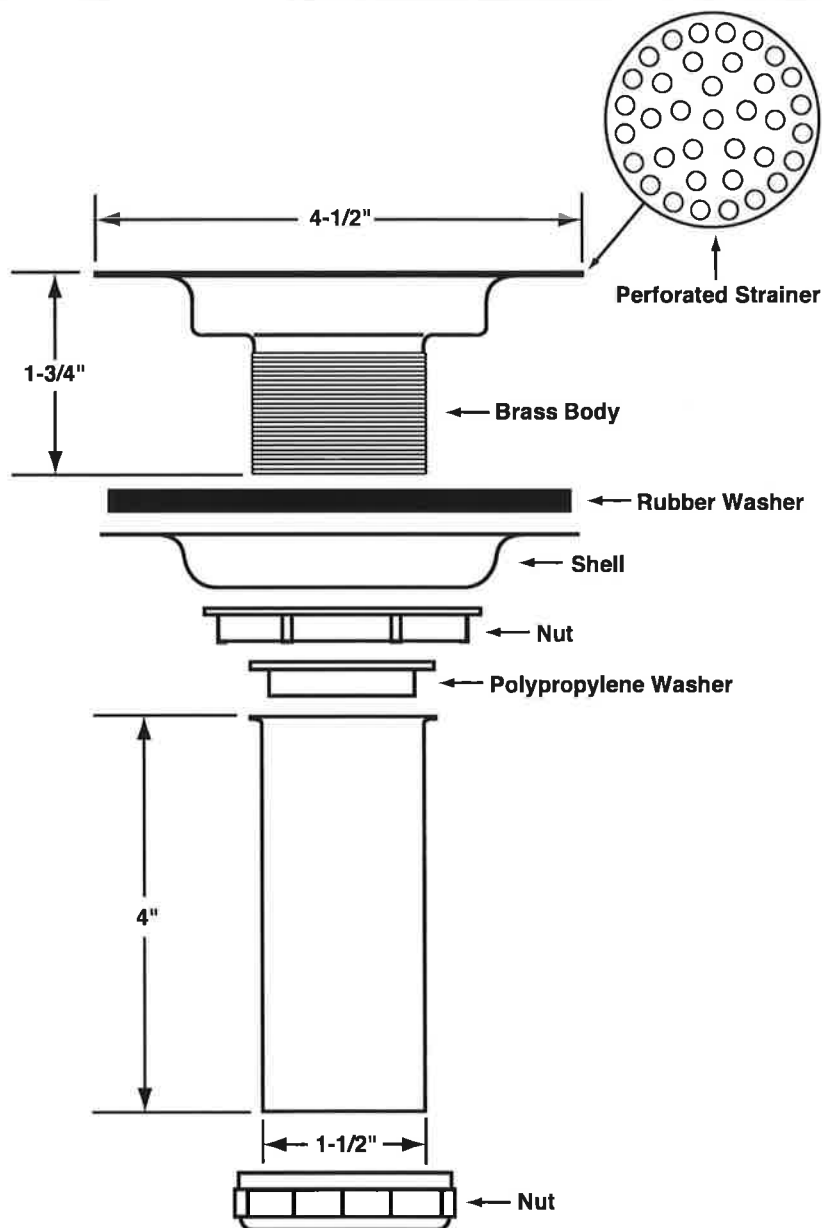
Part No.

152

**Wide Top Sink
Strainer**

Job Name:

Submittal Number:



See options and accessories section for details on product variations.

Specifications:

Wrought Brass Chrome Plated Wide Top Sink Strainer with 1-1/2" x 4" seamless brass tailpiece.
Fits sink thickness up to 3/4 inch.



McGuire Manufacturing Co., Inc.

60 Grandview Court
P.O. Box 746 ♣ Cheshire, CT 06410
203-699-1801 ♣ Fax: 203-699-1813
www.mcguiremfg.com

PRODUCT SPECIFICATION

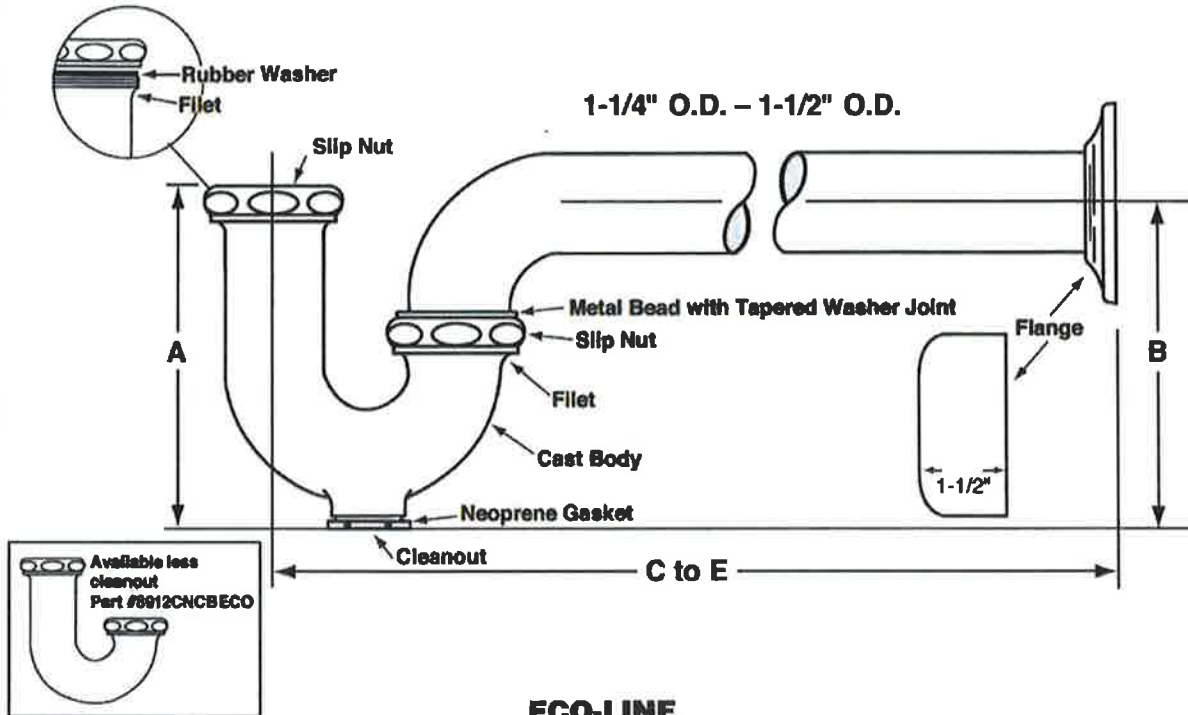
Part No.

8872CBECO, C8872CECO,
8912CBECO, **C8912CECO**,
8912CNCBECO, 8912C18BECO

Cast Body P-Trap With
or Without Cleanout

Job Name: _____

Submittal Number: _____



ECO-LINE

ROUGHING MEASUREMENTS

MODEL NO.	TRAP DIMENSIONS		A	B	C to E	FLANGE	SLIP NUT
	INLET	OUTLET					
8872CBECO	1-1/4"	1-1/4"	5"	4-1/2"	11"	Box	Brass
C8872CECO	1-1/4"	1-1/4"	5"	4-1/2"	10"	Shallow	Zinc
8912CBECO	1-1/2", 1-1/4"	1-1/2"	5"	4-1/2"	12"	Box	Brass
C8912CECO	1-1/2"	1-1/2"	5"	4-1/2"	10-1/2"	Shallow	Zinc
8912CNCBECO	1-1/2", 1-1/4"	1-1/2"	5"	4-1/2"	12"	Box	Brass
8912C18BECO	1-1/2", 1-1/4"	1-1/2"	5"	4-1/2"	18"	Box	Brass

FED SPEC W.W.P. 541
CAST BRASS P-TRAP
MINIMUM SEAL 2"



See options and accessories section for details on product variations.

Specifications:

Chrome plated P-Trap shall be cast brass body, with or without cleanout, with 17 gauge seamless tubular wall bend and flange.

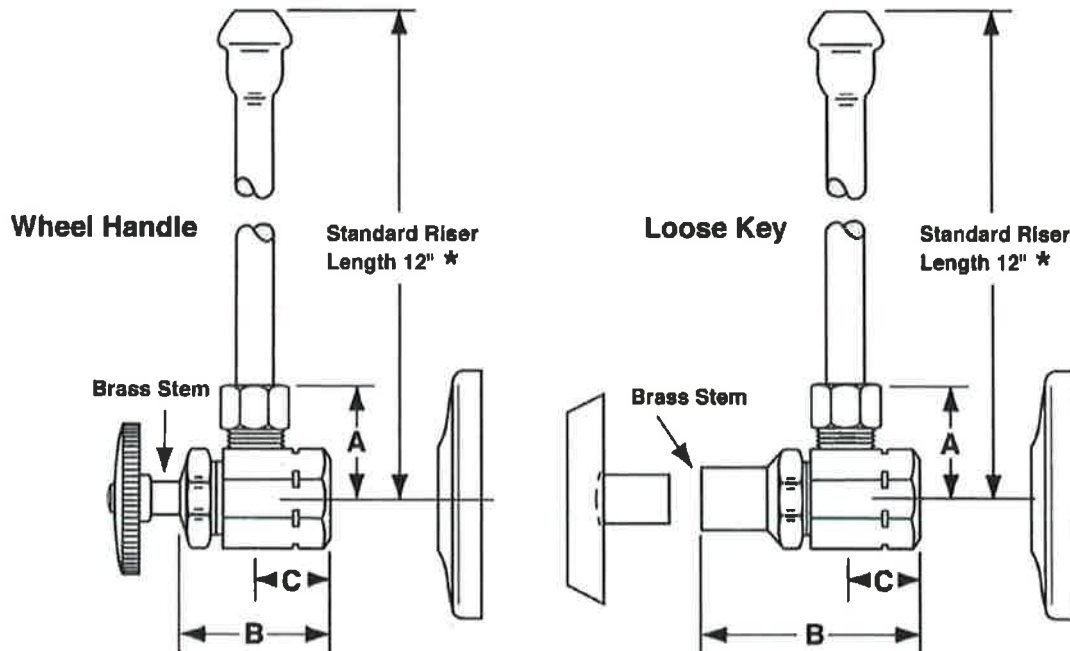
**McGuire Manufacturing Co., Inc.**

60 Grandview Court
P.O. Box 746 • Cheshire, CT 06410
203-699-1801 • Fax: 203-699-1813
www.mcguiremfg.com

PRODUCT SPECIFICATION**Part No.**

LF2165, **LF2165LK**,
LF2167, LF2167LK

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"
➤ LF2165LK	1/2" I.P.S. x 3/8" O.D.	1-3/16"	2-1/4"	3/4"
LF2167	1/2" I.P.S. x 1/2" O.D.	1-3/16"	1-1/2"	3/4"
LF2167LK	1/2" I.P.S. x 1/2" O.D.	1-3/16"	2-1/4"	3/4"

LK designates Loose Key

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

**Specifications:**

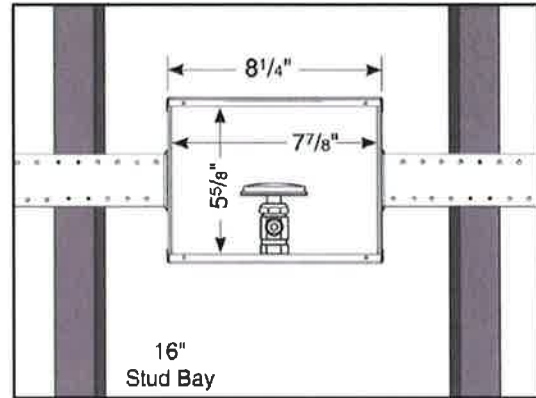
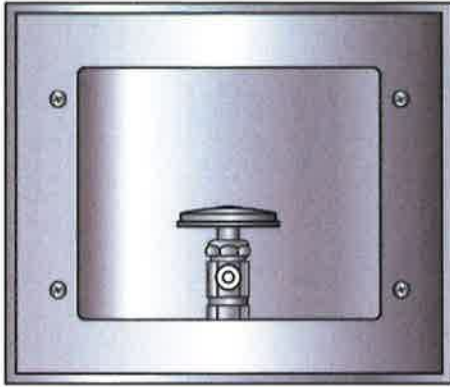
Supply kit shall include low lead chrome plated brass supply stop valves with full turn brass stem, no plastic, (12, 15, 20) inch chrome plated risers and (shallow, deep, bell) (steel, brass) or (forged brass with set screw) flange. Inlet shall be (3/8, 1/2) inch (IPS, compression). Outlet shall be (3/8,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

P-6

SPECIFICATION SUBMITTAL SHEET



GALVANIZED ICE MAKER OUTLET BOX with Lead Free Domestic Valve



Specifications:

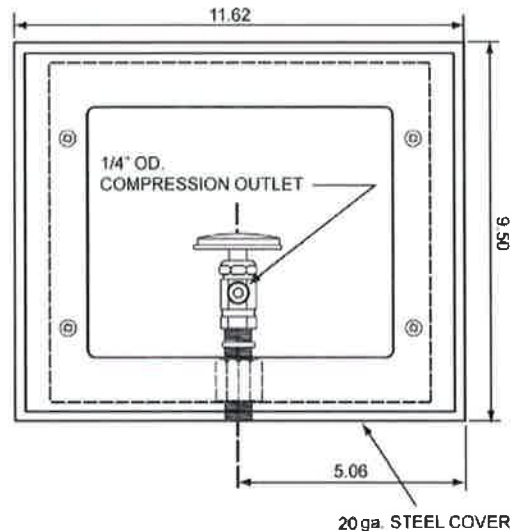
Furnish and install galvanized ice maker box. Unit shall be Guy Gray product code checked below as manufactured by IPS Corporation.

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 #	Product Description	Model #	Quantity
88158	Lead Free Domestic Valve - 1/2" Sweat Conn.	BIM875AB	5
96997	Tamper resistant cover for Models B, BB, WB, FB, & BIM	BTRC	6



500 Distribution Parkway, Collierville, TN 38017, USA

TEL: 800-888-8312

Fax: 901-853-5008

www.ipscorp.com

BIM875D

P-7



PASCO Specialty & Mfg., Inc.

P.O. Box 1667
South Gate, CA 90280
Phone (310) 537-7782
Fax (800) 737-2726

7529 Perryman Court
Curtis Bay, MD 21226
Phone (410) 360-5010
Fax (877) 377-6466

www.pascospecialty.com

TECHNICAL SPECIFICATION SUBMITTAL

Dishwasher drain airgaps for use with domestic dishwashers connected to the kitchen sink drain or garbage disposer.

Job Name _____ Date _____

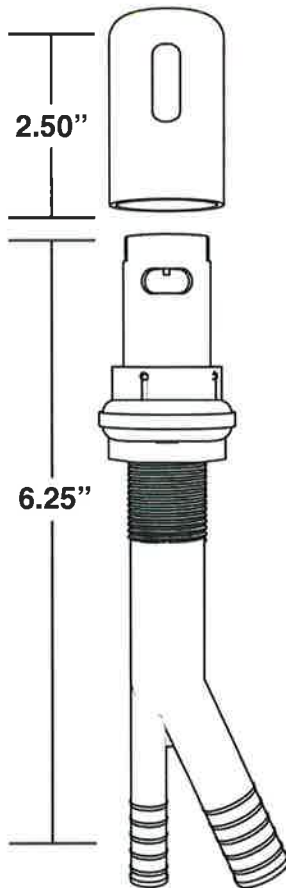
Model Specified _____ Quantity _____

Customer/Wholesaler _____

Contractor _____

Architect/Engineer _____

DISHWASHER DRAIN HOSE AIRGAP DOMESTIC USE ONLY



- **White polypropylene body**
- **Chrome ABS top**
- **Barbed for 7/8" and 5/8" drain hose connection**
- **UPC listed**

PART NUMBER	DESCRIPTION
50710	Airgap only
50712*	With 7/8" x 24" code approved drain hose and ss clamps

*Recommended purchase of entire installation kit

Airgap is imported
7/8" hose made in U.S.A.



WARNING: Birth Defects, Reproductive Harm,
and Cancer. www.p65warnings.ca.gov.



Fluidmaster®

PROJECT SUBMITTAL

Project _____ Date _____
Engineer / Architect _____
Builder / Developer _____
Plumbing Contractor _____
Fluidmaster Part Number(s) _____

Fluidmaster Water Supply Connectors

Toilet, Faucet, Washing Machine, Dishwasher, Water Heater, Ice Maker

Connector Sizes and Lengths (in inches)

Toilet Connectors	Vinyl	SS	Circle Relative Sizes	Qty.
3/8" Comp., 7/16" Comp., 1/2" Comp., or 1/2" F.I.P. x 7/8" Ballcock	N/A		9" 12" 16" 20"	
3/8" Comp. x 7/8" Ballcock			6" 9" 12" 16" 20"	
1/2" Comp. x 7/8" Ballcock	N/A		9" 12" 16" 20"	
1/2" F.I.P. x 7/8" Ballcock			9" 12" 16" 20"	

Toilet Click Seal™ Connectors	Vinyl	SS	Circle Relative Sizes	Qty.
3/8" Comp., 7/16" Comp., 1/2" Comp., or 1/2" F.I.P. x 7/8" Ballcock	N/A		9" 12" 20"	
3/8" Comp. x 7/8" Ballcock	N/A		9" 12" 16" 20"	

Faucet Connectors	Vinyl	SS	Circle Relative Sizes	Qty.
3/8" Comp., 7/16" Comp., 1/2" Comp., or 1/2" F.I.P. x 1/2" F.I.P.	N/A		9" 12" 16" 20" 30" 36"	
3/8" Comp. x 1/2" F.I.P.			12" 16" 20" 30" 36"	
1/2" F.I.P. x 1/2" F.I.P.			12" 16" 20" 30"	
1/2" Comp. x 1/2" F.I.P.	N/A		12" 16" 20" 30"	
3/8" Comp. x 3/8" Comp.	N/A		12" 16" 20"	
3/8" Comp. x 3/8" O.D. Comp.	N/A		12" 16" 20"	

Faucet Click Seal™ Connectors	Vinyl	SS	Circle Relative Sizes	Qty.
3/8" Comp., 7/16" Comp., 1/2" Comp., or 1/2" F.I.P. x 1/2" F.I.P.	N/A		16"	
1/2" Comp. x 1/2" F.I.P.	N/A		12" 16" 20" 30"	
1/2" F.I.P. x 1/2" F.I.P.	N/A		12" 16" 20" 30"	

Dishwasher Connectors	Vinyl	SS	Circle Relative Sizes	Qty.
3/8" Comp. x 1/2" F.I.P. (Includes 3/8" Elbow)	N/A		48" 60" 72"	
3/8" Comp. x 3/8" Comp. (Includes 3/8" Elbow) B6W72	N/A		48" 60" 72"	
3/8" Comp. x 3/8" Comp. (Includes 3/8" & 3/4" Elbow)	N/A		48" 60" 72"	
3/8" Comp. x 3/8" Comp., 7/16" Comp., 1/2" Comp., or 1/2" F.I.P. (Includes 3/8" & 3/4" Elbow)	N/A		48" 60" 72"	



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7529 Perryman Court
Curtis Bay, MD 21226
Phone (410) 360-5010
Fax (877) 377-6466

www.pascospecialty.com

TECHNICAL SPECIFICATION SUBMITTAL

Chrome plated steel or stainless steel escutcheon or flange for steel, copper, plastic pipe used in plumbing.

Job Name _____ Date _____

Model Specified _____ Quantity _____

Customer/Wholesaler _____

Contractor _____

Architect/Engineer _____

Engineering Specification: A chrome plated steel or stainless steel escutcheon or flange to cover the connection between a sink drain wall bend and the trap adapter at the sanitary tee or other connections where pipe wall penetrations occur.

Flanges - Escutcheons for Steel, Copper, Plastic Pipe

- Sure grip style for snug fit
- Domestic or foreign manufacture
- 26 Gauge

Chrome Plated Steel



PART NUMBER	IPS	CWT	OUTSIDE DIAMETER
1224	1-1/2" Tubular		3"
1225	3/8"	--	2-1/2"
1226	1/2"	--	2-1/2"
1227	3/4"	--	2-1/2"
1228	1-1/2"	--	3"
1229	2"	--	3-1/4"
1230	--	1/2"	2-1/2"
1231	--	3/4"	2-1/2"
1232	1-1/4"	1-1/2"	3"
1233	1"	--	2-3/4"
1240	--	2"	3-1/2"
1241	--	1"	2-3/4"
1244	1-1/4" Tubular		3"

Stainless Steel - Grade 304

1226-SS	1/2"	--	2-1/2"
1227-SS	3/4"	--	2-1/2"
1228-SS	1-1/2"	--	3-1/2"
1229-SS	2"	--	3-1/2"
1230-SS	--	1/2"	2-1/2"
1231-SS	--	3/4"	2-1/2"
37244	1-1/4" Tubular		3"
37224	1-1/2" Tubular		3"



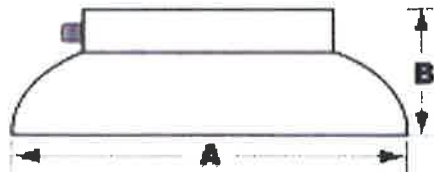
WARNING: Birth Defects, Reproductive Harm, and Cancer. www.p65warnings.ca.gov.

**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.****All Cast Brass
Nipples and
Set Screw Flanges****Job Name:****Submittal Number:**

NO.	SIZE
1127	1-1/4" x 6"
2127	1-1/2" x 6"
3127	2" x 6"



NO.	SIZE	A	B
127038	3/8" I.P.S.	2.39"	.73"
127050	1/2" I.P.S.	2.25"	.7"
127058	5/8" O.D. (1/2" Copper)	2.39"	.73"
127069	1 1/16" O.D.	2.39"	.73"
127075	3/4" I.P.S.	2.25"	.7"
127078	7/8" O.D. (3/4" Copper)	2.25"	.7"
127100	1" I.P.S.	2.75"	.9"
1271251	1-1/4" I.P.S.	2.765"	.95"
1271250	1-1/4" O.D.	2.95"	1"
1271501	1-1/2" I.P.S.	2.95"	.9"
1271500	1-1/2" O.D.	2.95"	1"
1271580	1-5/8" O.D. (1-1/2" Copper)	2.8"	.9"
1271720	1-23/32" O.D.	Discontinued	
1272001	2" I.P.S.	3.675"	.9"
1272000	2" O.D.	3.3"	.95"



NO.	SIZE
N038015	3/8" x 1-1/2"
N038020	3/8" x 2"
N038030	3/8" x 3"
N038035	3/8" x 3-1/2"
N038040	3/8" x 4"
N038045	3/8" x 4-1/2"
N038050	3/8" x 5"
N038055	3/8" x 5-1/2"
N038060	3/8" x 6"
N038065	3/8" x 6-1/2"
N038100	3/8" x 10"
N038120	3/8" x 12"
N038150	3/8" x 15"
N038200	3/8" x 20"
N038240	3/8" x 24"
N050030	1/2" x 3"
N050040	1/2" x 4"
N050050	1/2" x 5"
N050055	1/2" x 5-1/2"
N050060	1/2" x 6"
N050080	1/2" x 8"
N125060	1-1/4" x 6"
N150060	1-1/2" x 6"
N200060	2" x 6"

Specifications:

All Cast Brass Nipples and Set Screw Flanges for use with P-Traps, supplies and shower arms. Highly polished and heavy chrome plated.

**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.org

P-8

Engineering Specification

Job Name **JRMC**
 Job Location **Clarksville**
 Engineer **HSA**
 Approval _____
 Tag **P-8**

Contractor **Comfort Systems USA**
 Approval _____
 Contractor's P.O. No. _____
 Representative **Sanders Supply**

SS Series Stainless Steel Shock Arrestors

Specification

Watts SS Series pre-charged all stainless steel shock arrestor with stainless steel bellows, and male IPS threaded connection.

Operating Pressure: Designed to operate on all domestic and commercial lines up to 150 psi working pressure, 250 psi static pressure.

Temperature Range: 100°F to 300°F (-73°C to 149°C)

Installation

May be installed in new or existing plumbing systems with a standard pipe tee vertically, horizontally or at any angle. SS Series are factory air charged and permanently sealed. They may be installed in concealed locations without access panels and are not rechargeable in the field.



Suffix	Pipe Size	Description
A	3/4"(19)	Connection <input type="checkbox"/>
B	1"(25)	Connection <input type="checkbox"/>
C	1"(25)	Connection <input type="checkbox"/>
D	1"(25)	Connection <input type="checkbox"/>
E	1"(25)	Connection <input type="checkbox"/>
F	1"(25)	Connection <input type="checkbox"/>

Technical Data

Description	SS-A	SS-B	SS-C	SS-D	SS-E	SS-F
Fixture Unit	1-11	12-32	33-60	61-113	114-154	155-330
"A" Connection	3/4"(19)	1"(25)	1"(25)	1"(25)	1"(25)	1"(25)
"B" Height	3 3/16"(81)	4"(102)	4 5/16"(110)	5 1/4"(133)	7"(178)	7"(178)
"C" Diameter	3 1/4"(83)	3 1/4"(83)	3 1/4"(83)	3 1/4"(83)	3 1/4"(83)	3 1/4"(83)

Approvals



Note: Complies with PDI WH201



Note: Complies with ASSE 1010

NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.



USA: T: (800) 338-2581 • F: (828) 248-3929 • Watts.com
 Canada: T: (888) 208-8927 • F: (905) 481-2316 • Watts.ca
 Latin America: T: (52) 55-4122-0138 • Watts.com

P-9

Engineering Specification

Job Name **JRMC**
 Job Location **Clarksville**
 Engineer **HSA**
 Approval _____
 Tag **P-9**

Contractor **Comfort Systems USA**
 Approval _____
 Contractor's P.O. No. _____
 Representative **Sanders Supply**

CO-480-RD

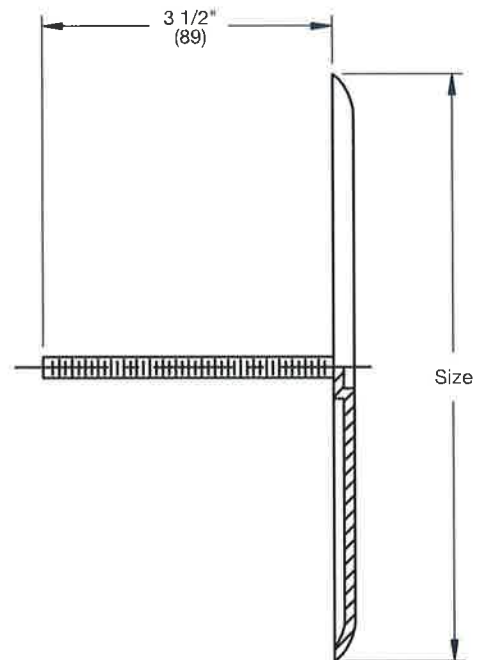
Stainless Steel

Access Cover with Screw

Specification

Watts CO-480-RD stainless steel access cover with vandal proof stainless steel screw.

Size		
Suffix	Description	
5	5" (127) Cover	<input type="checkbox"/>
6	6" (152) Cover	<input type="checkbox"/>
7	7" (178) Cover	<input checked="" type="checkbox"/>
8	8" (203) Cover	<input type="checkbox"/>
10	10" (254) Cover	<input type="checkbox"/>



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 ES-WD-CO-480-RD 2140