

Quality People. Building Solutions.

Comfort Systems USA (Arkansas), Inc. P.O. Box 16620 Little Rock, AR 72231 Phone 501-834-3320 Fax 501-834-5416

Date: 2/15/2022

Return Request: 2/25/2022

Project: EJ Towbin Healthcare Center

Supplier: LR Winnelson **Manufacturer:** Various **Submittal:** Plumbing Fixtures **Submittal Number:** 22 40 00-01

Drawing # and Installation: Plumbing Drawings

ARCHITECT

Johnson Danforth & Associates 2200 N. Rodney Parham, Suite 210 Little Rock, AR 72212 501-404-4811

GENERAL CONTRACTOR

CDI Contractors 3000 Cantrell Re. Little Rock, AR 72202 501-666-4300 **ENGINEER**

Insight Engineering 201 S. Chester, Suite B Little Rock, AR 72201 501-237-3077

MECHANICAL SUBCONTRACTOR

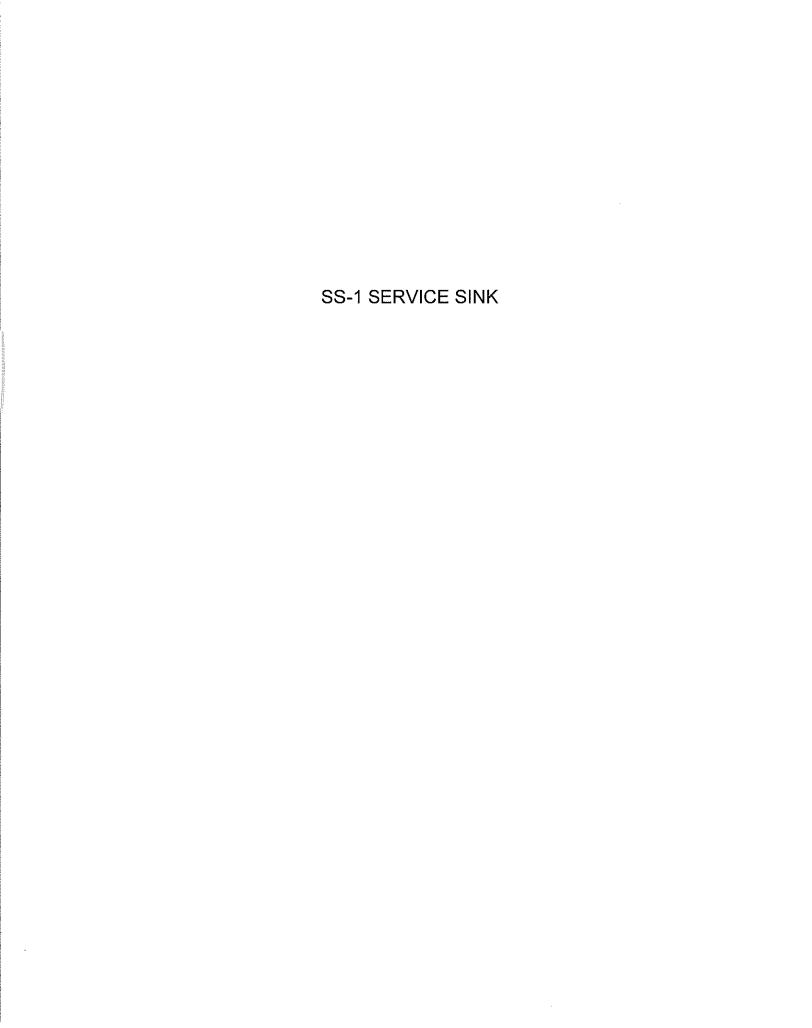
Comfort Systems USA (Arkansas), Inc. 9924 Landers Rd. N. Little Rock, AR 72117 501-834-3320

Notes:			

CSUSA PROJECT NO. 22-873

dpierce@comfortar.com

EJ TOWBIN HEALTHCARE CENTER 3H RENOVATION NORTH LITTLE ROCK, ARKANSAS



T&S BRASS AND BRONZE WORKS, INC.

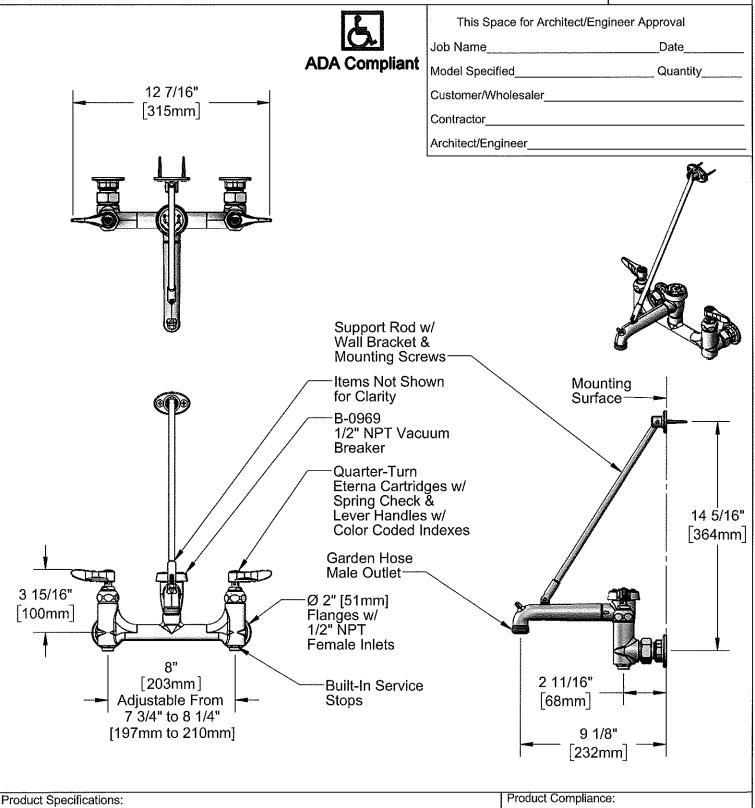
2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690

Model No.

B-0665-BSTP

Item No.

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



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

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

Drawn: KJG Checked: JRM Approved: JHB Date: 11/19/19 Scale: 1:4 Sheet: 1 of 2



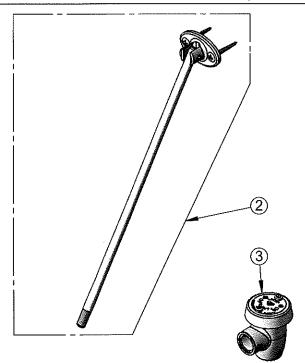
T&S BRASS AND BRONZE WORKS, INC.

2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690 Model No.

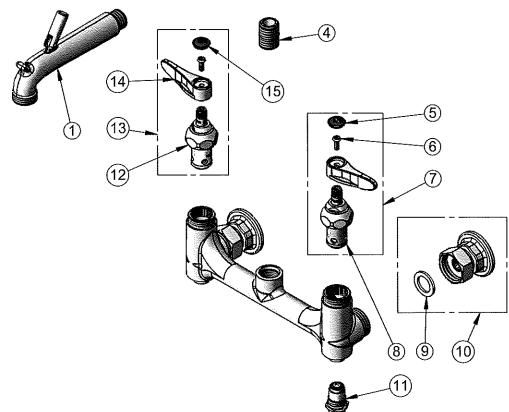
B-0665-BSTP

Item No.

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



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



Product Specifications:

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

Product Compliance:

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

Drawn: KJG Checked: JRM Approved: JHB Date: 11/19/19 Scale: NTS Sheet: 2 of 2

JBC

Drawn:

Checked:

JRM

Approved:

JHB

Date:

06/23/17

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

Model No.

B-WH6C

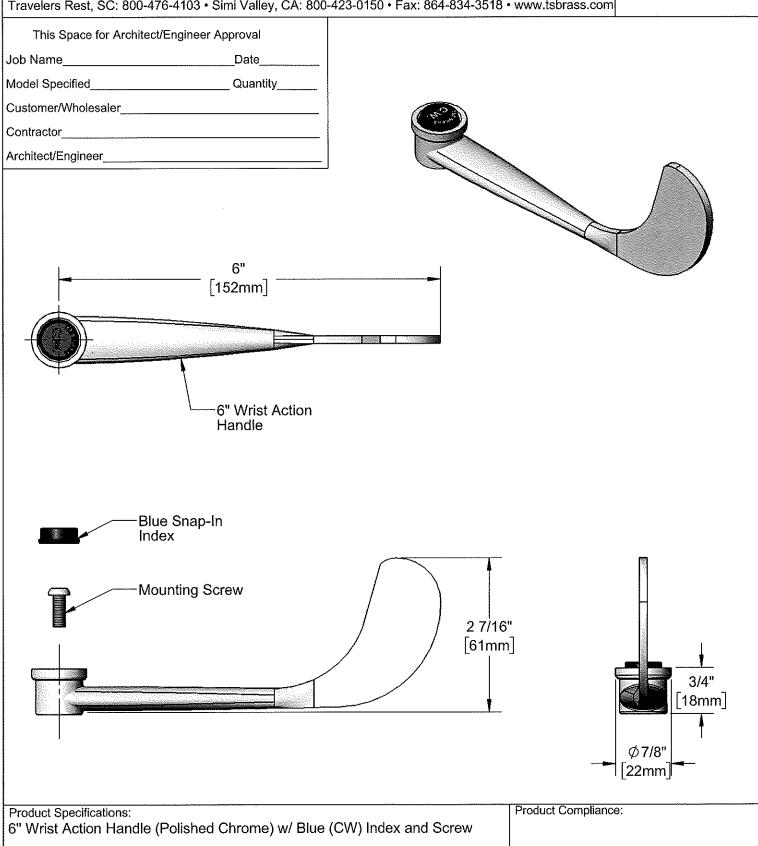
Item No.

2:3

Sheet: 1 of

Scale:

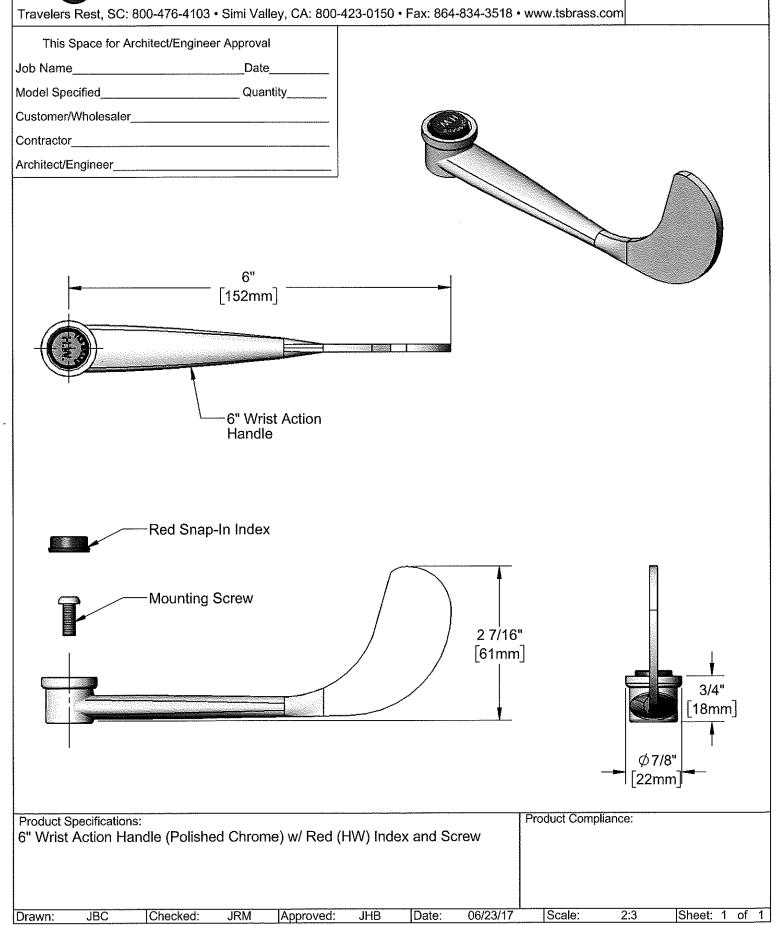
Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com



Model No.

B-WH6H

Item No.



TES

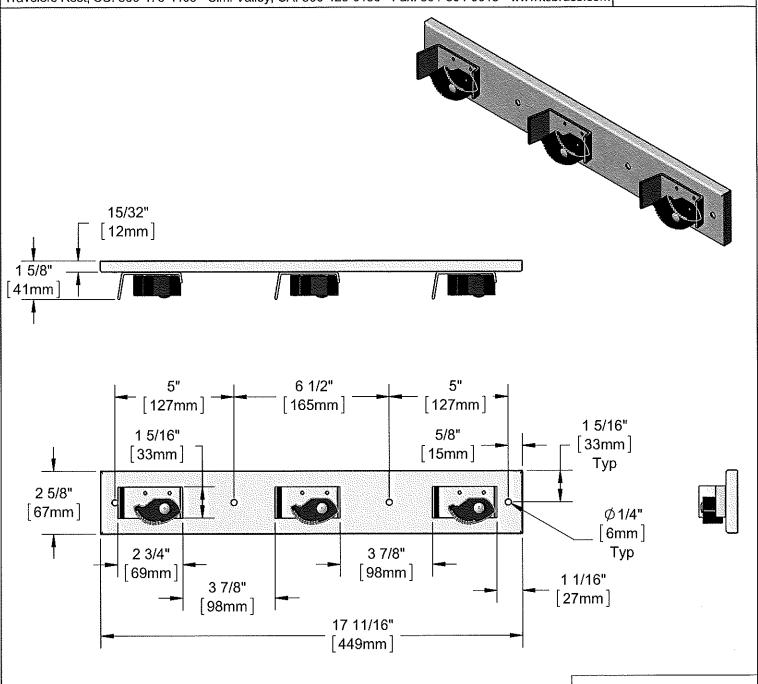
T&S BRASS AND BRONZE WORKS, INC.

2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690 Model No.

B-0653

Item No.

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



(4) Chrome Plated Brass Wood Screws (Included)

1 roddot opodinacione.	Drawn	Checked	Approved
Stainless Steel Mop Hanger, (3) Spring-Loaded Rubber Grips	KJG	JRM	JHB
	Scale:		Date:
	ГИ	ΓS	05/14/15



Model No.

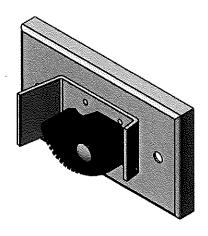
B-0654

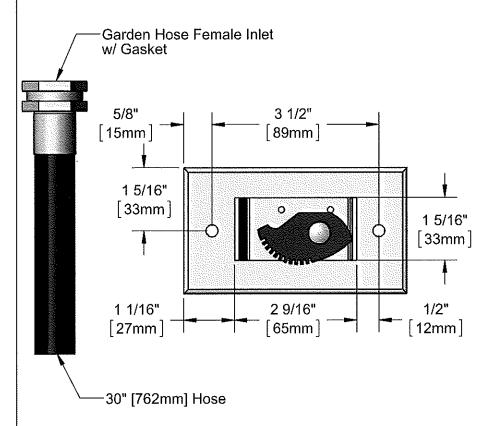
Item No.

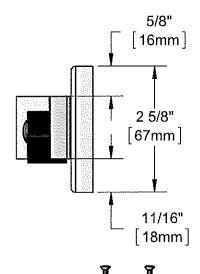
Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com

1/2"	4 11/16"			
[12mm]	[119mm]			

This Space for Architect/Engineer Approval Date Job Name_ _____Quantity_ Model Specified_ Customer/Wholesaler_____ Contractor Architect/Engineer







(2) Chrome Plated Bráss Wood Screws (Included)

Product Specifications:

Stainless Steel Hose Hanger w/ Spring-Loaded Rubber Grip, and 30" Hose w/ Female Garden Hose Inlet

Product Compliance:

1:2 KJG Checked: DHL Approved: JHB Date: 06/23/15 Scale: Sheet: 1 of Drawn:

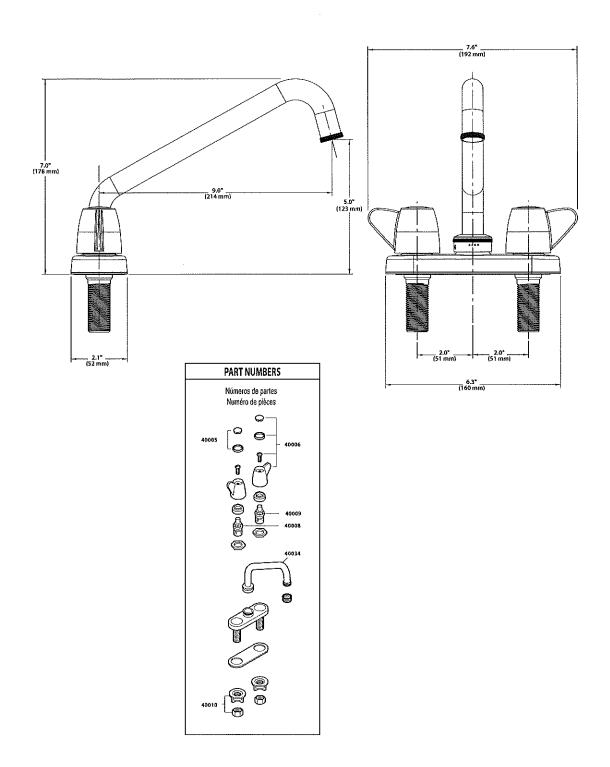


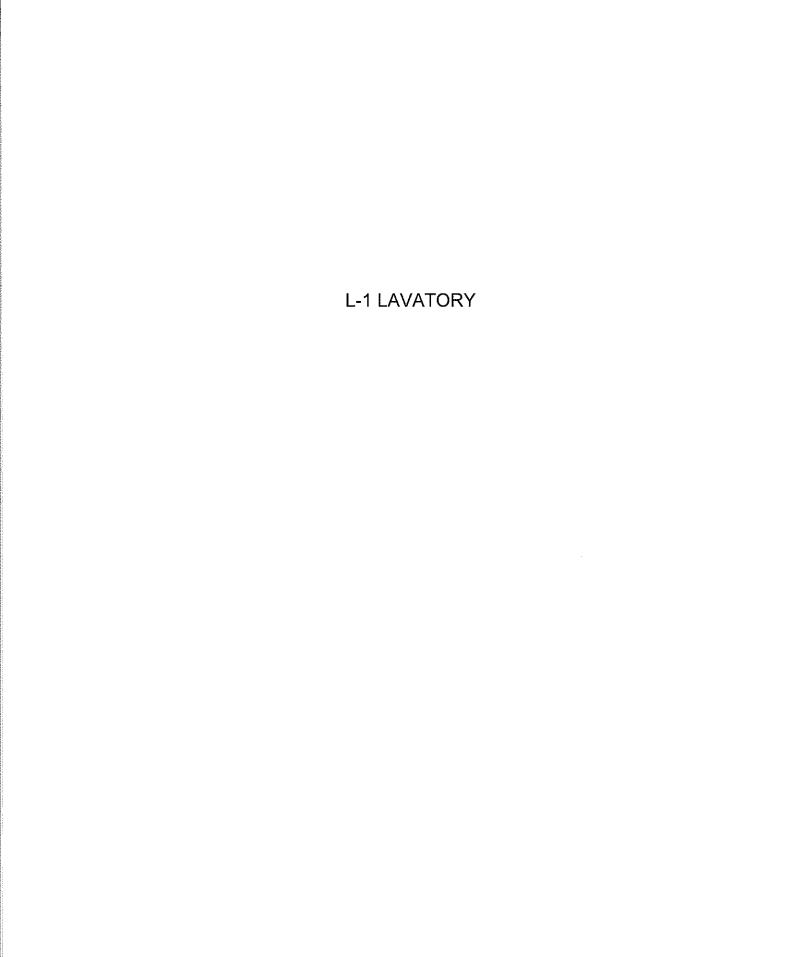


Model: 40812

CRITICAL DIMENSIONS

- This faucet designed to be installed through 3 holes, 1" minimum diameter, 4" centers
- Maximum deck thickness 1.75" (44.5 mm)





Single Control Lavatory Faucet Installation Instructions

Recommended for base fittings: 420 Series and 420-T Series

Overview

Chicago Faucets deck mounted faucets feature cast brass bodies and precision cartridges for years of reliable operation.

Notice to the Installer

- Read this entire instruction sheet before installing to ensure proper installation.
- Installation must comply with local codes and ordinances.
- 420-T45 Series products have a maximum outlet temperature of 113°F (45°C), which may exceed the maximum temperature requirements of some plumbing codes.

Pressurized plumbing fixtures shall be installed in accordance with manufacturer's recommendations. The supply piping to these devices shall be securely anchored to the building structure to prevent installed device from unnecessary movement when operated by the user. Care shall be exercised when installing the device to prevent marring the exposed surface.

NOTE: The information in this manual is subject to change without notice.

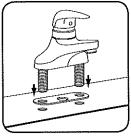
Please leave this manual with the facility manager after completing the faucet installation. This document contains information necessary for routine maintenance and servicing.

NOTE: Before installation, turn off water supplies to existing faucet and remove faucet if replacing. Clean faucet basin and clear away debris. Flush all supply lines before connecting to faucet. Failure to do so can result in debris clogging the inlets and/or cartridges.

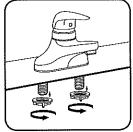
NOTE: Before installing a new ceramic cartridge flush lines completely.

NOTE: Faucet must be serviced using only a Chicago Faucets recommended replacement outlet.

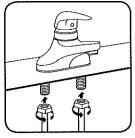
Installation Instructions



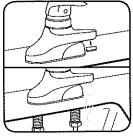
Position gasket and faucet.



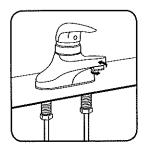
2. Secure faucet.



3. Attach supply lines.

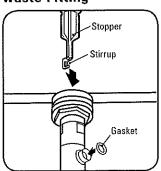


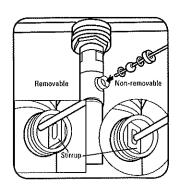
4. Remove outlet and flush lines.



5. Reinstall outlet.

Waste Fitting







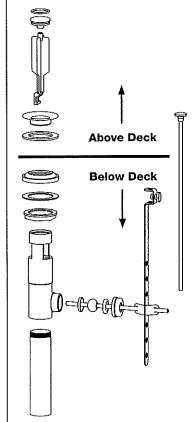




Temp**Shield**°

420-T products are ASSE 1070 certified to provide anti-scald safety measures.

Waste Fitting (420 Series Only)



Single Control Lavatory Faucet Installation Instructions

(continued)



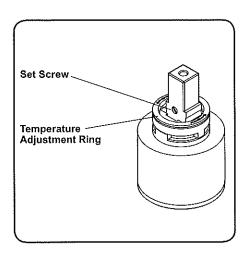
Temperature Adjustment

(420 Series Only)

Lift temperature adjustment ring off cartridge, and rotate clockwise to decrease hot water flow.

Volume Adjustment

Loosen set screw in back of cartridge stem to limit total water volume.



LIFETIME FAUCET WARRANTY — The "Faucet," defined as any metal cast, forged, stamped or formed portion of the Product, not including electronic or moving parts or other products separately covered by this Limited Warranty or water restricting components or other components, is warranted against material manufacturing defects for the life of the Product.

FIVE YEAR FAUCET WARRANTY -- Certain Products and portions of the Product are warranted against material manufacturing defects for a period of five (5) years from the date of Product purchase. Products warranted against material manufacturing defects for a period of five (5) years from the date of Product purchase are referred to by the product numbers 42X, 43X, 15XX and E-Tronic 4X, 5X, 6X, 7X, 8X and 9X. All zinc die cast portions of Product are warranted against material manufacturing defects for a period of five (5) years from the date of Product purchase.

THREE YEAR ELECTRONICS WARRANTY — Electronic components, including the solenoid, are warranted for three (3) years from the date of installation.

FIVE YEAR CARTRIDGE WARRANTY - The "Cartridge", defined as the metal portion of any Product typically referred to by the product numbers containing 1-099, 1-100, 1-310, 377X, 217X and 274X, excluding any rubber or plastic components, is warranted against material manufacturing defects for a period of five (5) years from the date of Product purchase. All Cartridges included in the Company's Single Control or Shower Products also are warranted against material manufacturing defects for a period of five (5) years from the date of

ONE YEAR FINISH WARRANTY - COMMERCIAL - For Products used in commercial applications, the finish of the Product is warranted against material manufacturing defects for a period of one (1) year from the date of Product purchase.

OTHER WARRANTIES — All other Products not covered above are warranted against material manufacturing defects for a period of one (1) year from the date of Product purchase. Other restrictions and limitations apply. For complete warranty details, call Chicago Faucets Customer Service at 847-803-5000 or visit chicagofaucets.com.

> The Chicago Faucet Company 2100 South Clearwater Drive Des Plaines, IL 60018 Phone: 847/803-5000 Fax: 847/803-5454 Technical: 800/832-8783 www.chicagofaucets.com

Repair Parts

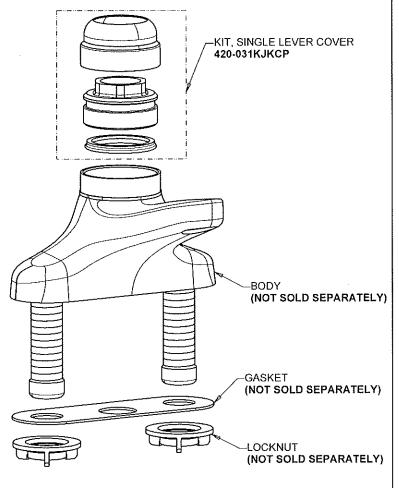
420-T45E2805ABCP

Deck-mounted manual faucet with built-in ASSE 1070 certified scald protection

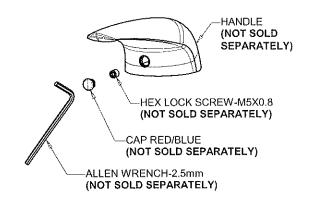


Base for 420-T Series Fittings

Base Parts:

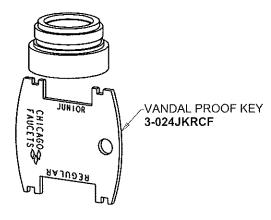


4-1/4" Lever Handle **420-030KJKCP**

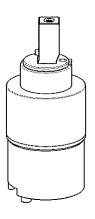


0.5 GPM (1.9 L/min) Vandal Proof Econo-Flo Non-Aerating Spray

E2805JKABCP



Ceramic Cartridge, Volume and Temperature Control **420-X45KJKABNF**



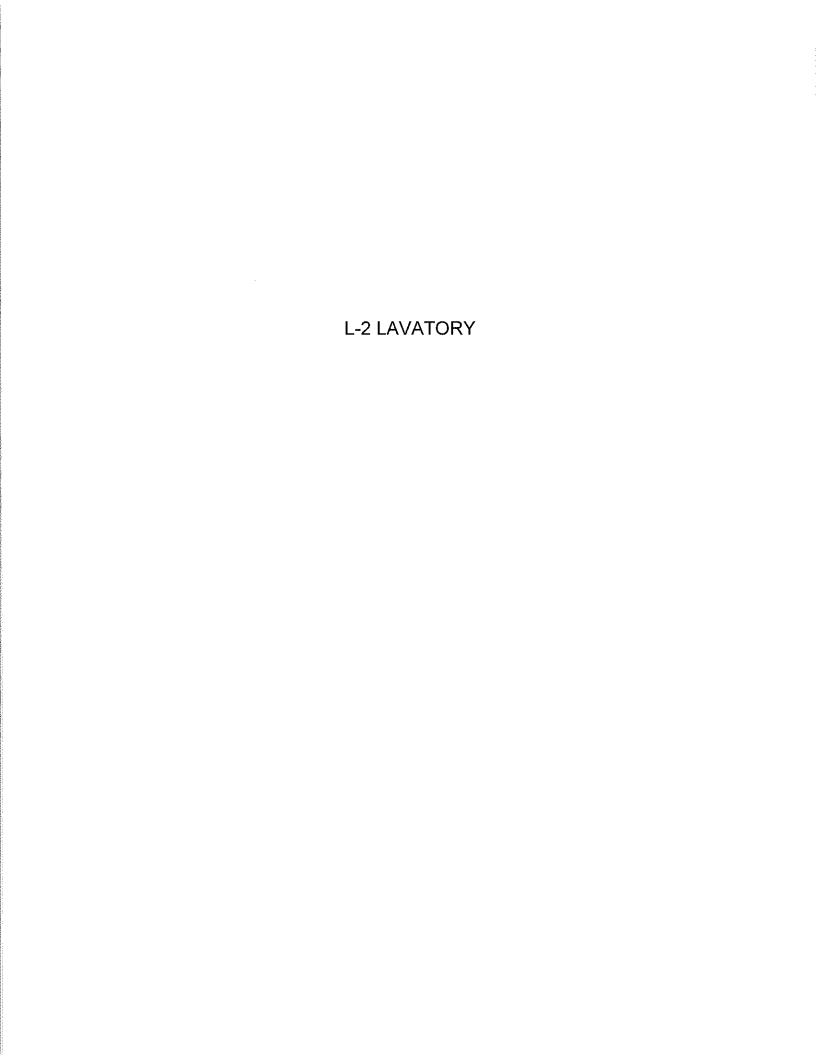
For Technical Assistance:

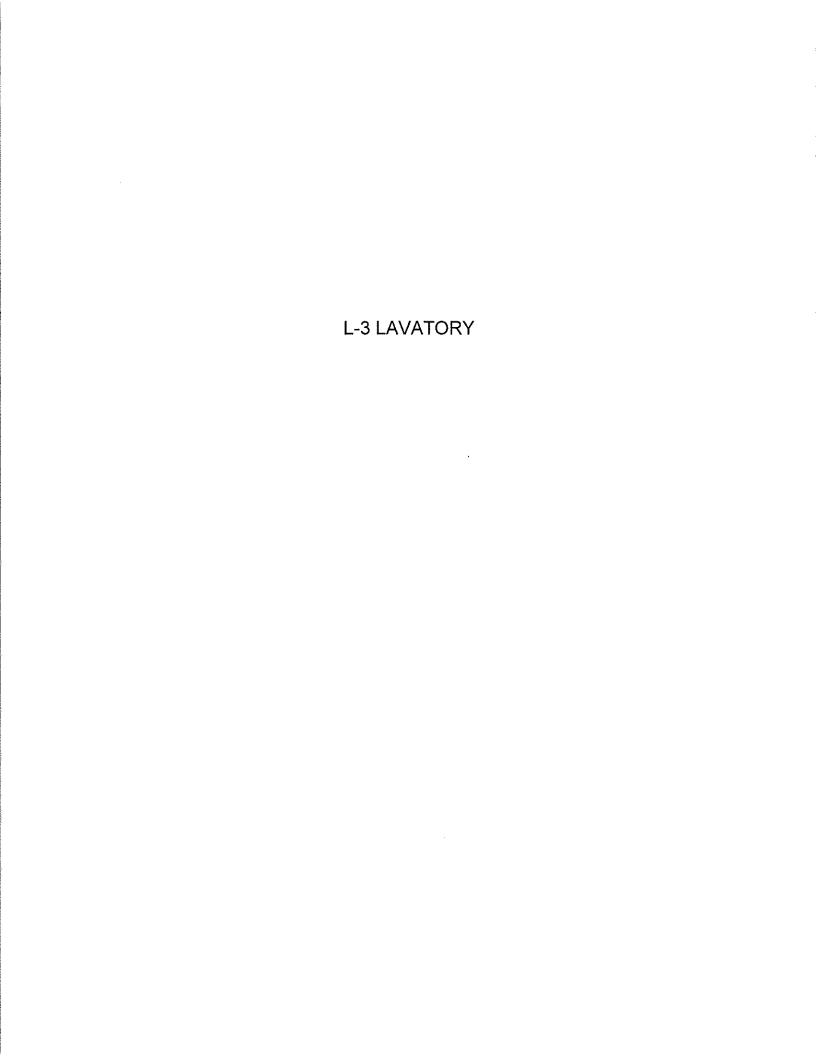
Phone: 800-TEC-TRUE (832-8783)

Email: techsupport.us@chicagofaucets.com

2100 South Clearwater Drive Des Plaines, IL 60018 Phone: 847-803-5000

chicagofaucets.com







Camaya Series™ Faucet

Sensor-Operated Lavatory Faucets for Battery or Plug-In Installations.

Installation, Operation, Maintenance, and Parts Manual



Z6953-XL Camaya Series™

Sensor-Operated Battery-Power or Plug-in Lavatory Faucets

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 assumes 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 lists are approximate and are not guaranteed.

NOTICE: READ ENTIRE MANUAL PRIOR TO INSTALLING PRODUCT.

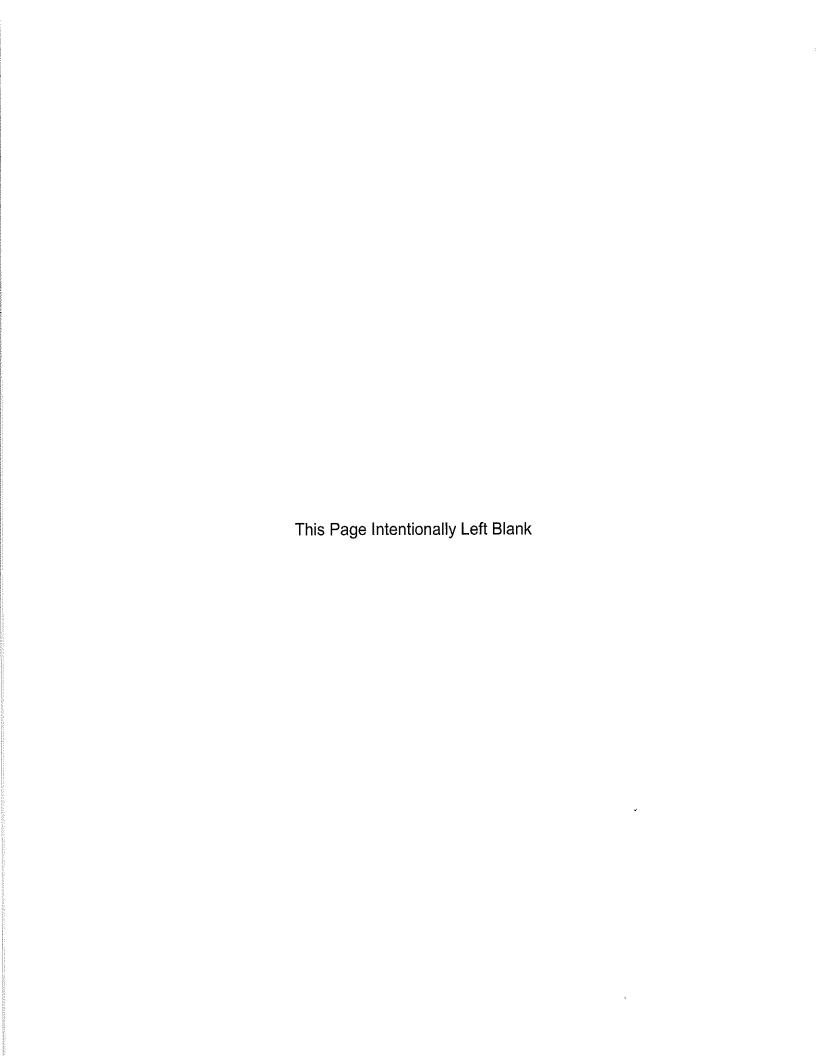
★ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

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

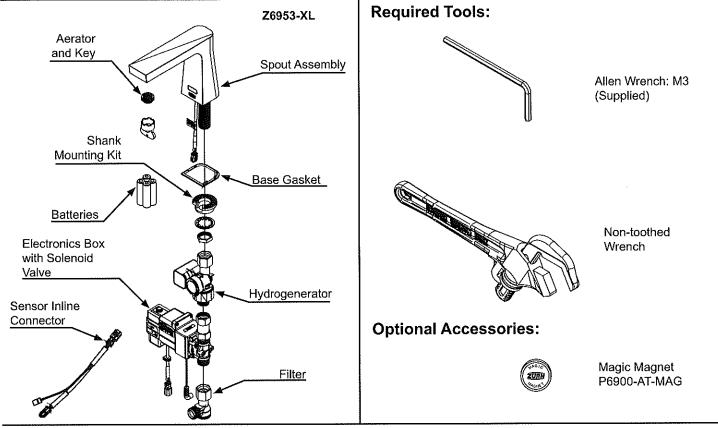
AVERTISSEMENT: Cancer et effets néfastes sur la reproduction - www.P65Warnings.ca.gov

<u>NOTE</u>: 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.

Rev. E | Date: 12/07/22 | C.N. No. 144945 | Prod./Dwg. No. FV795



Camaya SeriesTM Faucet Package Contents



Overview:

Zurn® Camaya Series™ Faucets features multiple spout designs in a standard polished chrome finish with one piece heavy duty cast brass spouts and advanced electronic components and feature sets. Sophisticated automatic user detection ensures the user does not need to touch the faucet and helps deliver optimum water savings.

Specifications:

Voltage:

6 VDC Series [4 "AA" (Alkaline) and/or external power option]

Sensor Range:

Fixed.

Operating Water Pressure:

10-125 psi

Operational Water Temperature:

33°F to 140°F (1°C to 60°C)

Aerator:

0.5 GPM (Standard)

Important Safety Information:

- Installer is responsible for ensuring the product is installed and conforms to all plumbing codes and ordinances.
- Do not convert or modify this Zurn product yourself. All warranties will be voided.
- · Water supply lines must be sized according to building designer in order to provide adequate water supply for each fixture.
- · Flush all water lines prior to making connections.

Marning: Do not connect an external power supply to the hydrogenerator's barrel jack connector. Doing so could reduce product performance or pose a fire hazard

Prior to Installation:

Before installing your Zurn® Camaya Series™ Faucet: the items listed below should already be installed on site.

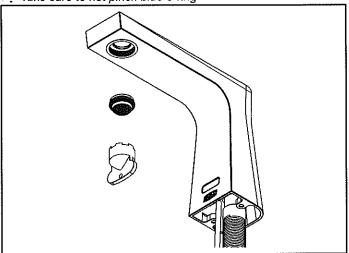
- Lavatory/sink
- Drain Line
- Hot and cold water supply line or pre-tempered water supply line.
- Installer/Servicer should not use pipe dope or teflon/thread sealant anywhere on this product, most notably threads and connection points.
- · Care shall be taken when installing this product to prevent marring of any exposed or decorative surfaces.

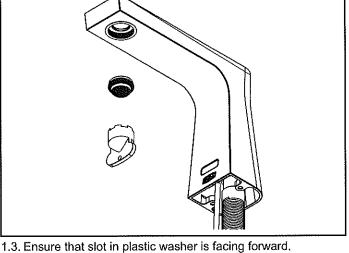
NOTE: Before installation, turn off water supplies to existing faucet and remove faucet if replacing an existing device. Clean the faucet basin and clear away debris. Flush all supply lines before connecting the faucet. Failure to do so may result in debris clogging the inlets and/or internal control and mixing valve

Spout Installation - Step 1

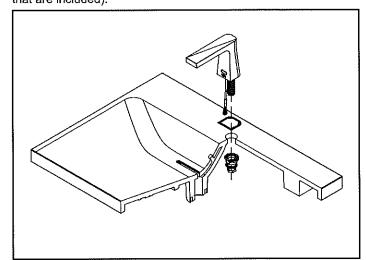
1.1. Carefully screw aerator into spout using included tool.

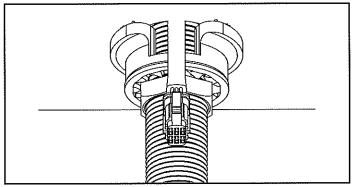
! Take care to not pinch blue o-ring





1.2. Install spout to sink using spout base gasket, plastic mounting washer, star washer and mounting nut (and cover plate for versions that are included).



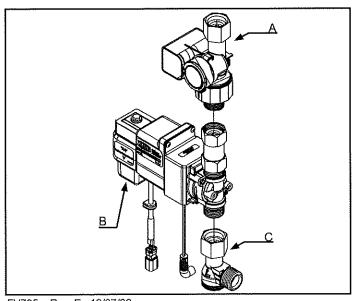


Take care passing sensor cable through hole. Cable passes through front of plastic mounting washer

Electronics Module Installation - Step 2

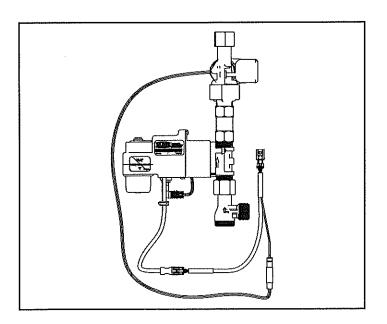
2.1. Connect the hydrogenerator(A) downstream of electronics module(B) and filter(C) to bottom of electronics module.

2.2. For battery-powered version, connect sensor inline connector to electronics module and hydrogenerator.

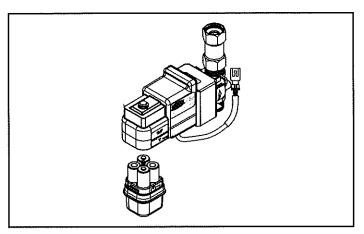


FV795 Rev. E 12/07/22

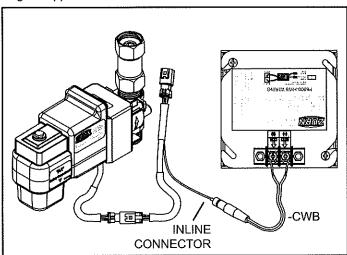
Page 2



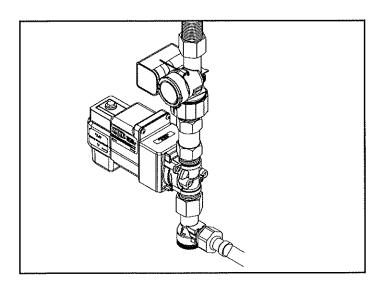
2.3. Open battery module using supplied Allen wrench and install supplied batteries in the electronics module.



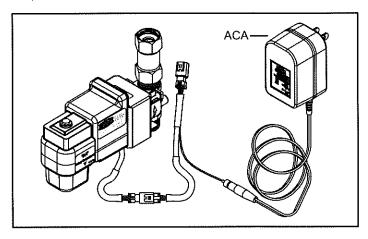
2.3b. Optional HW6 (Hardwired 6V) version: Connect supplied inline connector and hardwire adapter. When securing the CWB wires to the screw terminals on HW6 unit, the BLACK WITH DASHED MARKINGS should be connected to the Positive (+) terminal, and the SOLID BLACK wire should be connected to the Negative (-) terminal.



2.4. Tighten electronics module assembly with hydrogenerator to shank and connect water line(s).

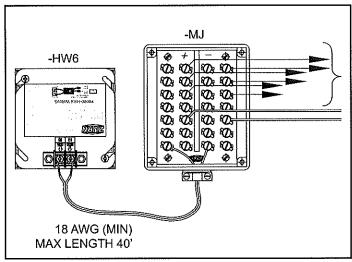


2.3a. Optional ACA installation: Connect Y-adaptor to ACA adapter as shown.

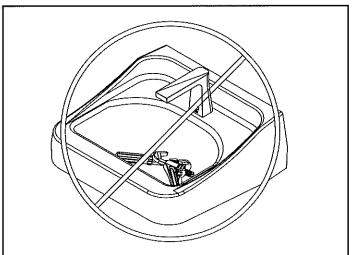


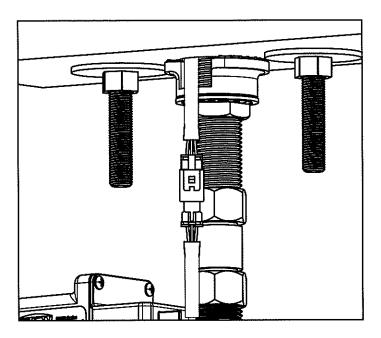
MJ unit (sold separately)

Note: Do not connect more than 8 solenoids to a single transformer



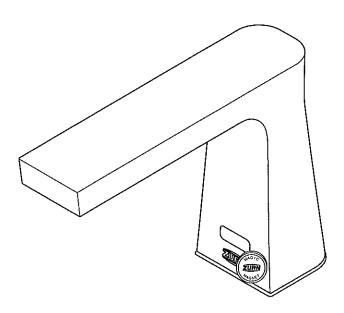
- 2.5. Ensure that sink is clear of tools/debris and is in normal operating condition.
- 2.6. Turn on water supply(ies).





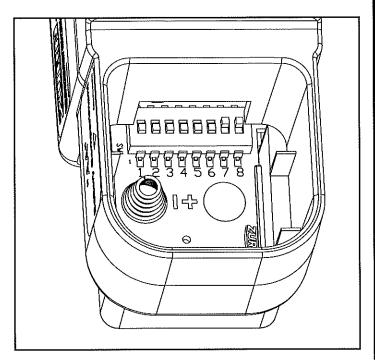
Sensor Range Adjustment (All configurations when necessary)

- 1. Ensure that the faucet is installed and powered has been applied.
- 2. Place and hold the Magic Magnet (optional accessory: P6900-AT-MAG) in the right hand corner of the sensor as shown. An indicating light will activate when the magnet is correctly positioned.
- 3. Wait until the light starts to blink, then remove the magnet. (Faucet has entered the calibration mode.)
- 4. Place a target at the desired activation range in front of the faucet sensor. (Cardboard, hand, etc.)
- 5, Wait approximately 10 seconds during the calibration cycle. Do not move the target during this period.
- 6. Calibration is complete when the light stops blinking.
- 7. Confirm calibration distance by moving the target back, then slowly forward until the faucet activates at the desired calibration distance.



Adjustable modes and features selection:

To adjust features from default configuration, you must remove the battery tray. Once battery tray is removed you will see the switches.



		OFF-	1	2 3 0 0	4 5 5 5	6 7 5 5	8	
Switch Position:	1	2	3	4	5	6	7	8
24:	1	Off Off On On						
Time (Seconds) 30: 5: 10: 15: 60: Less Time-out:			Off On Off On Off On	Off Off On On Off	Off Off Off Off On			
Mode Select Sensing Mode: Metering Mode:						Off On		
Sensor Sensitivity Low: Normal: Mode A: Mode B:							Off On Off On	Off Off On On

All switches shown in default mode.

Purge Features:

The purge switches can be configured for 4 modes of operation: Disabled (standard configuration), 12 hour, 24 hours, or 48 hours. Purge water flow duration is 2 minutes. Note: Purge activation occurs every switch selected time (0,12, 24, or 48 hours) after last activation.

Flow Time:

There are 6 optional time configurations: 30 seconds (standard), 5s, 10s, 15s, 60s, & "Less Time-out". The "Less Time-out" option actually ceases water flow (turns off) after 20 minutes to limit chance of water damage in the event a sink drain becomes blocked.

Sensing Mode (DEFAULT):

During this mode the valve will shut off after hands are removed. If hands are not removed the time out delay will turn off the faucet (ex: standard configuration is 30 seconds) (See Switch Position Diagram shown above)

Metering Mode:

When hands are detected by the sensor, water will run for 'X' seconds (standard configuration is 30 seconds) before turning off. (See Switch Position Diagram shown above)

Sensor Sensitivity: (Default setting: Low):

The 4 sensor sensitivity options are used for varied sink and environmental conditions. The factory default setting should be ideal for most general applications. However, sensor performance can be optimized to adjust for unusual sink finish, material, shape, or unusually bright or dark lighting conditions.

Switch 7 controls the sensitivity

- -On (default) is normal sensitivity for most sinks providing max range.
- -Off set the sensor to a lower sensitivity level for sinks that cause false activation. The detection range maybe less for all hands. Switch 8 controls sensor mode
 - -On (default) enables the mode that filters the effects of flowing in the bottom of problematic sinks. Detection maybe less for some hands.
 - -Off disable the filter mode, so detection is expanded deeper into the sink for max detection range for all hands. Some sinks may only be able to operate in this mode.

NOTE: After a configuration switch change has been made, disconnect sensor cable from electronics box, wait 30 seconds, then reconnect sensor cable and wait 30 seconds to allow the sensor to tune-in the sink characteristics.

TROUBLESHOOTING GUIDE:

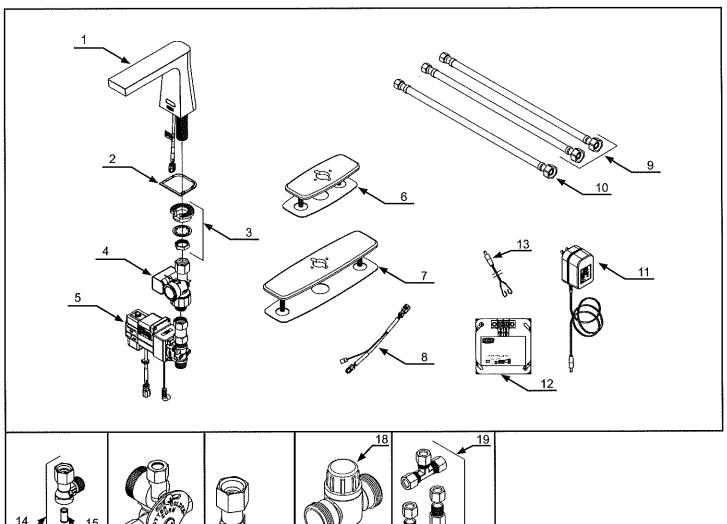
POTENTIAL SITUATIONS	POSSIBLE CAUSES	SUGGESTED SOLUTION TIPS
Faucet is non-responsive	Battery voltage low or no power.	Change out batteries or verify power provided by HW6 or ACA
	Sensor and electronic connector cable has bent or broken pins.	Check to see if pins are missing, bent, or broken. If yes, then the electronic box needs replaced
	Sensor lens could have surface damage, scratches, or deposit build ups.	"Inspect the sensor lens underneath the spout tip. May require cleaning with a damp cloth or sensor replacement"
Faucet does not activate after initial installation	Sensor may not have had enough time to calibrate prior to a user or target trying to initiate activation. Check if protective film was removed from lens.	Disconnect the sensor and electronic box cables and wait for 30 seconds. Reconnect the cables, but allow for another 30 seconds before placing hands or a target within the sensor range. You should hear a click of the solenoid once calibration is complete.
Water does not stop	Electronics box cable connector has bent pins that are shorted	Check to see if pins are missing, bent, or broken. If yes, then the electronic box needs replaced.
Water does not stop Ghost Activation		· -
	has bent pins that are shorted Sensor lens could be obstructed or environmental factors such as high reflective surfaces and/or bright	then the electronic box needs replaced. Check/clean sensor lens of any debris or buildup If

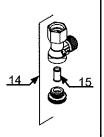
For further assistance with troubleshooting visit http://www.zurn.com

Care and Cleaning Instructions:

- Do not use any abrasive or chemical cleaners to clean the faucets.
- · If abrasives or chemicals are used it can lead to dulling of luster, attacking of chrome plating or decorative finishes.
- ONLY use mildly warm soapy water, and then wipe the device dry with a clean/soft towel or cloth.
 Upon cleaning other areas of the restroom be sure the sensor lenses are protected from other cleaning chemicals/solvents to prevent potential damages to the sensor and/or electronics.

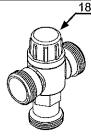
Z6953-XL Parts List

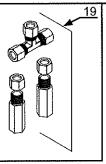






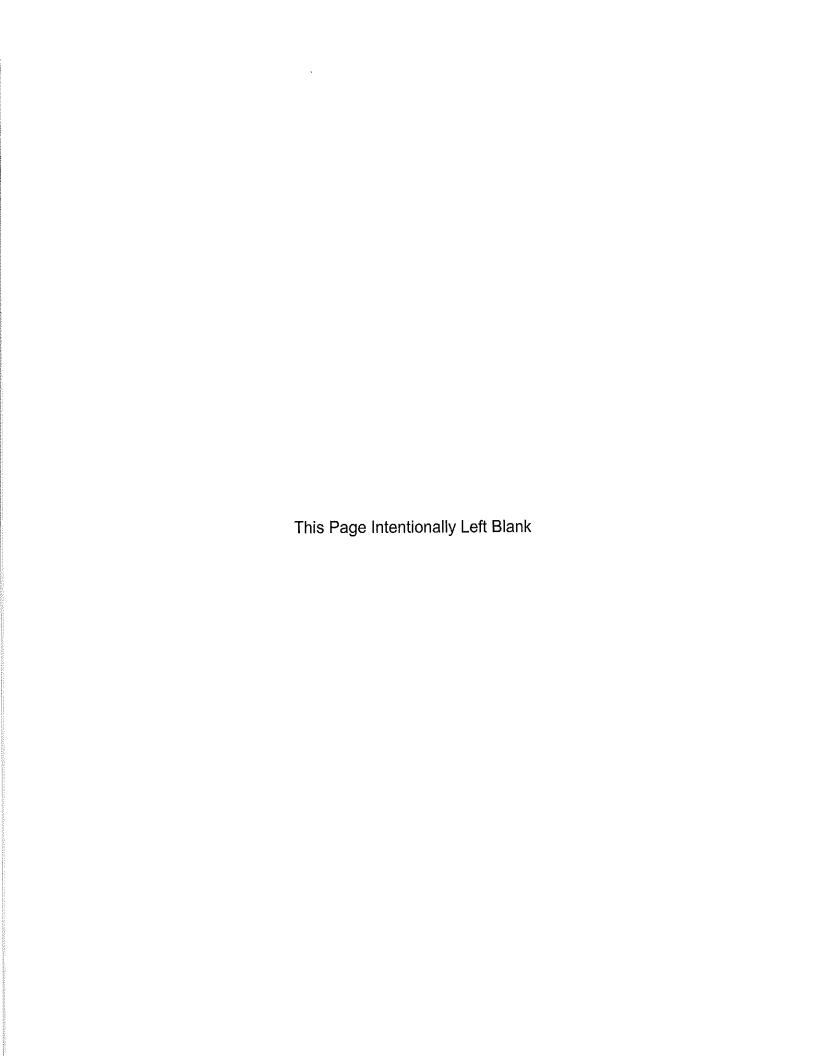






item	Description	Product No.
1	Z6953 Spout Assembly with Sensor	P6953-XL-CV-1
2	Z6953 Spout Base Gasket	P6953-XL-42
3	Mounting Kit	P6900-43
4	Hydrogenerator Assembly	P6900-HYD
5	Electronics Box with Solenoid	P6950-XL-B-L-V2
6	4" Cast Cover Plate w/Gasket	P6900-CP4
7	8" Cast Cover Plate w/Gasket	P6900-CP8
8	Sensor Inline Connector	P6950-XL-DC
9	Stainless Supply Hoses (XL)	P6900-SSH-2
10	Single Stainless Steel Hose (XL)	P6900-SSH
11	Optional Plug-in Power Converter	P6900-ACA

Item	Description	Product No.
12	-HW6 Power Supply	P6900-HW6
13	-CWB Pigtail	P6900-CWB
14	Filter Kit	P6900-120
15	Filter Screen	P6900-MV-7
16	Mixing Valve with Filter	P6900-XL-MV
17	Composite Mixing Valve Adapter	P6900-MV-ADAP
18	Thermostatic Mixing Valve	P6900-TMV
19	Mixing Tee w/Filters and Back Checks	P6900-XL-MT







INSTALLATION & SERVICE **INSTRUCTIONS MODEL 170A-LF**

170A-LF 3/8" COMPRESSION

ASSE 1070 CERTIFIED

WARNING: This product can expose you to Maximum Hot water temperature: 180°F (82°C) of California to cause cancer. For more information, go

NOTE: DO NOT USE THREAD SEALANT ON COMPRESSION CONNECTIONS

PERFORMANCE:

Maximum Pressure: 125 PSI (8.6 BAR)

chemicals including lead, which is known to the State * 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.

- 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.
- 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.
- 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.
- "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.
- Valve is NOT pre-set and must be set after installation. Run water for at least 1-2 minutes to allow water to stabilize.
- 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.
- Tighten down the locknut to prevent unauthorized adjustment.
- 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



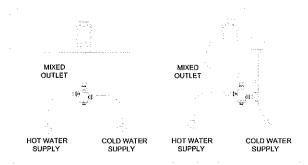




CHECK KIT - KIT 4/108 **INCLUDES CHECKS** AND SCREENS

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:

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

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S-1 SINK

Model No.

B-2866-05

Item No.

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

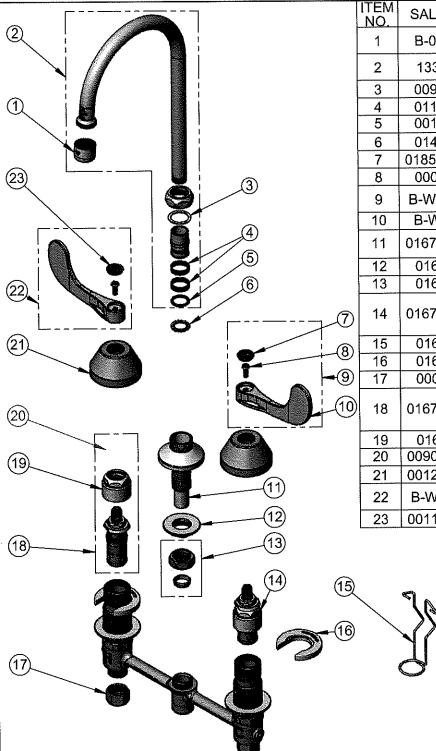
16"	`	or Architect/Engineer Approval
[406mm]	I	Date
		Quantity
		saler
	Contractor	
	Architect/Enginee	r
Ø2 1/4" [57mm] Escutcheons 133X-A22 Swivel Gooseneck w/ 2.2 GPM Aerator. Rigid Conversion Require 014200-45 Lock Washer (Included)	ADA Complia	ant Section 1
Quarter-Turn Eterna Cartridges w/ Spring Checks & 4" Wrist Action Handle w/ Color Coded Indexe	s es 6 1/4"	5 3/4" 10 11/16' [271mm]
	[158mm] 1/4" 3mm] 1 1/4" [32mm] Maximum	
	Thickness	
[203mm]	1/2" N	
Rough-In Requirement: Center Shank: ϕ 1" [25mm] Mounting Hole Hot/Cold Sides: ϕ 1 1/2" [38mm] Mounting Holes	Male I	ing Nuts
Product Specifications:	ı	oduct Compliance:
8" Concealed Widespread EasyInstall Mixing Faucet, 4" Wrist Act Handles, Quarter-Turn Eterna Cartridges w/ Spring Checks & 5 3/ Rigid/Swivel Gooseneck w/ 2.2 GPM Aerator & 1/2" NPT Male Ink	4" N	SME A112.18.1 / CSA B125.1 SF 61 - Section 9 SF 372 (Low Lead Content) NSI A117.1 (ADA)
Drawn: MRC Checked: JRM Approved: JHB Date	e: 04/30/19	Scale: 1:4 Sheet: 1 of 2

Model No.

B-2866-05

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-0199-01	2.2 GPM Aerator, 55/64-27 UN Female
2	133X-A22	Female 5 3/4" Swivel Gooseneck w/ 2.2 GPM Aerator
3	009538-45	Swivel Washer
4	011429-45	Swivel Sleeves (2)
5	001074-45	O-Ring
6	014200-45	Star Washer, Anti-Rotation
7	018506-19NS	Blue Button Index, Press-in
8	000925-45	Lab Handle Screw
9	B-WH4C-NS	Wrist Action Handle, Screw & Cold
10	B-WH4-NS	Wrist Action Handle - New Style
11	016754-40NS	Easylnstall CWS Swivel Center Shank
12	016742-45	Center Flange Nut
13	016745-45	Compression Nut & Fitting
14	016752-40NS	EasyInstall, CWS Quarter-Turn Eterna Cartridge w/ Spring Check, LTC
15	016777-45	CWS Hanger
16	016749-45	Sidebody C-Washer
17	000958-20	Coupling Nut
18	016753-40NS	EasyInstall, CWS Quarter-Turn Eterna Cartridge w/ Spring Check, RTC
19	016743-25	CWS Eterna Bonnet
20	009002-40NS	Packing Assembly (New Style)
21	001257-40NS	Bell Escutcheon
22	B-WH4H-NS	Wrist Action Handle, Screw & Hot Index
23	001193-19NS	Red Button Index, Press-in



017245-40 Installation Repair Kit Includes #12, (2)#16, & #15

Product Specifications:

8" Concealed Widespread EasyInstall Mixing Faucet, 4" Wrist Action Handles, Quarter-Turn Eterna Cartridges w/ Spring Checks & 5 3/4" Rigid/Swivel Gooseneck w/ 2.2 GPM Aerator & 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)

04/30/19 Sheet: 2 of 2 NTS Scale: MRC Checked: JRM Approved: JHB Date: Drawn:



Model No.

B-2866-05

Sheet: 1 of 2

1:4

Scale:

Item No.

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	This Space fo	or Architect/Engineer Approval
16"	Job Name	Date
[406mm]	Model Specified_	Quantity
	Customer/Wholes	aler
	Contractor	
	Architect/Enginee	
\$\phi_2 1/4" [57mm] Escutcheons 133X-A22 Swivel Gooseneck w/ 2.2 GPM Aerator. Rigid Conversion Requires 014200-45 Lock Washer (Included)	ADA Complia	
© 2" [51mm] Swivel Deck Flange Quarter-Turn Eterna Cartridges w/ Spring Checks & 4" Wrist Action Handles w/ Color Coded Indexes	6 1/4"	5 3/4" 10 11/16" [145mm] [271mm]
4 1 [108] Mounting	[158mm] /4"	
Surface 8"	1 1/4" [32mm] Maximum Thickness	
[203mm] Rough-In Requirement: Center Shank: Ø1" [25mm] Mounting Hole		PT nlets w/ ng Nuts
Center Shank: ∅1" [25mm] Mounting Hole Hot/Cold Sides: ∅1 1/2" [38mm] Mounting Holes		advet Compliance
Product Specifications: 8" Concealed Widespread EasyInstall Mixing Faucet, 4" Wrist Action	on 🗼	oduct Compliance: SME A112.18.1 / CSA B125.1
Handles, Quarter-Turn Eterna Cartridges w/ Spring Checks & 5 3/4 Rigid/Swivel Gooseneck w/ 2.2 GPM Aerator & 1/2" NPT Male Inlet	ts NS	SFE ATT2.16.17 CSA B123.1 SF 372 (Low Lead Content) ISI A117.1 (ADA)

JRM

Checked:

Drawn:

MRC

Approved:

JHB

Date:

04/30/19



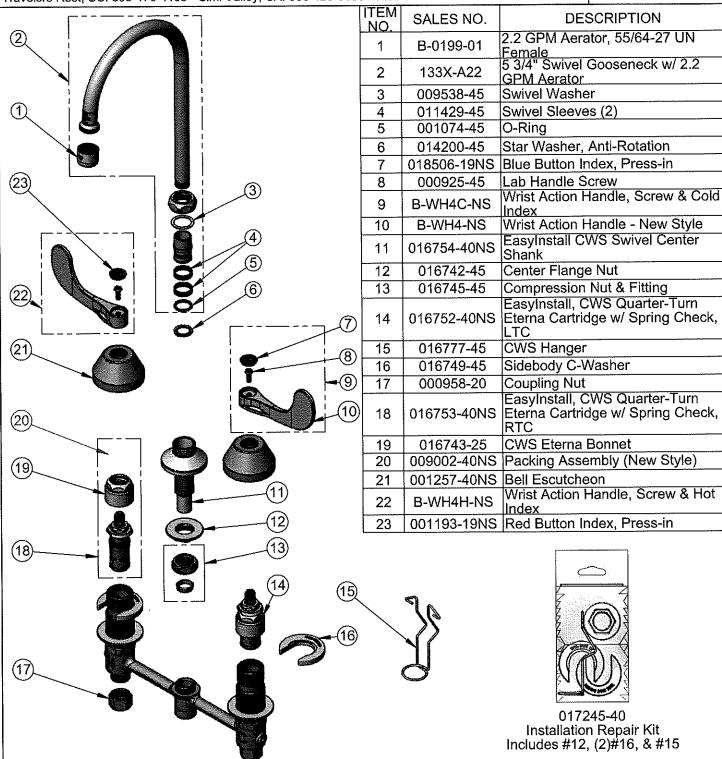
T&S BRASS AND BRONZE WORKS, INC.

2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690 Model No.

B-2866-05

Item No.

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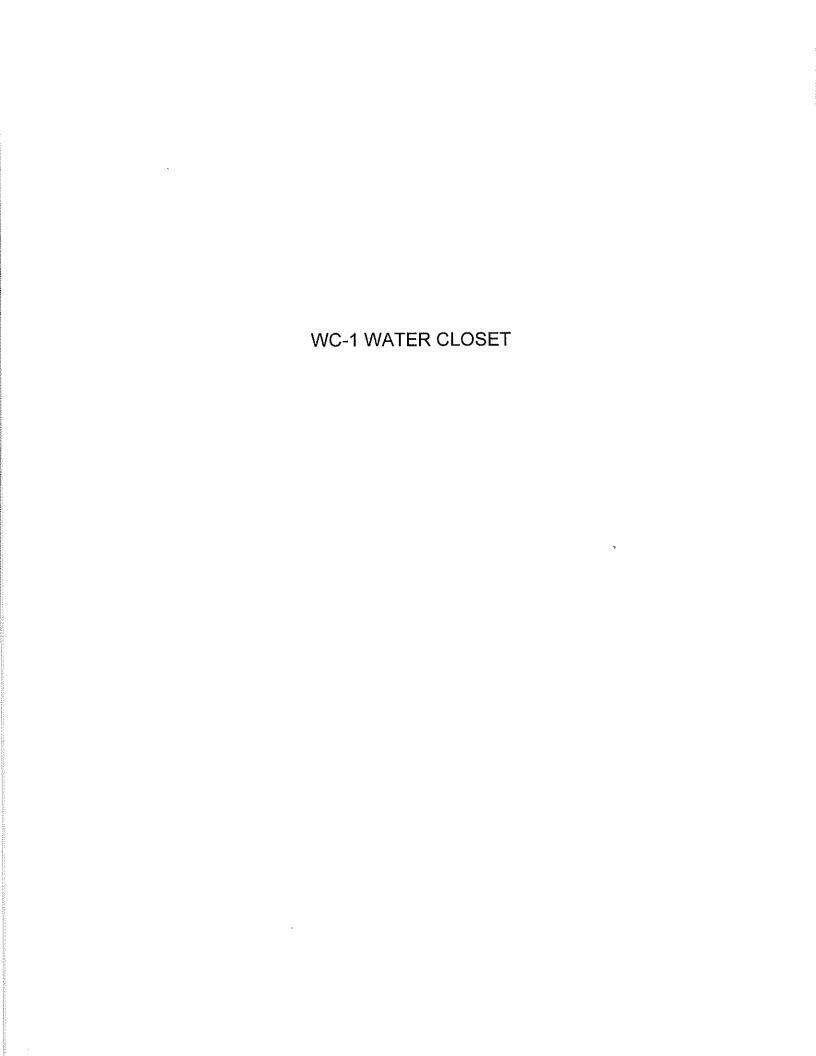
Product Specifications:

8" Concealed Widespread EasyInstall Mixing Faucet, 4" Wrist Action Handles, Quarter-Turn Eterna Cartridges w/ Spring Checks & 5 3/4" Rigid/Swivel Gooseneck w/ 2.2 GPM Aerator & 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)

Drawn: MRC Checked: JRM Approved: JHB Date: 04/30/19 Scale: NTS Sheet: 2 of 2

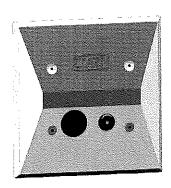


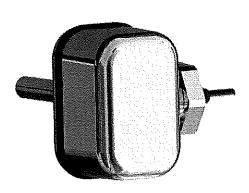


AquaSense® ZEMS G2 Series

Automatic Systems Sensor-Operated Flushometer Installation, Operation, Maintenance and Parts Manual

Patented and Patents Pending





Sensor-Operated Exposed Systems

Sensor-Operated Concealed Systems

ZEMS6000AV	ZEMS6200AV-3	ZEMS6140AV	ZEMS6190AV
ZEMS6200AV	ZEMS6001AV	ZEMS6240AV	ZEMS6290AV
ZEMS6000AV-2	ZEMS6201AV	ZEMS6152AV	ZEMS6195AV
ZEMS6200AV-2	ZEMS6003AV	ZEMS6252AV	ZEMS6295AV
ZEMS6000AV-3	ZEMS6203AV	ZEMS6153AV	ZEMS6197AV
		ZEMS6253AV	ZEMS6297AV

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

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

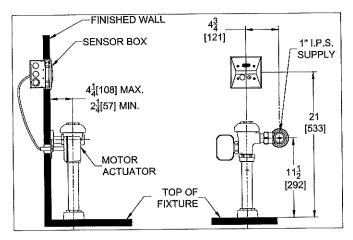
▲ AVERTISSEMENT: Cancer et effets néfastes sur la reproduction - www.P65Warnings.ca.gov

LIMITED WARRANTY

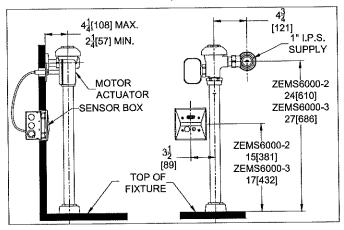
All goods sold hereunder are warranted to be free from defects in material and factory workmanship for a period of five years from the date of purchase. Decorative finishes warranted for one year. We will replace at no costs goods that prove defective provided we are notified in writing of such defect 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 assumes 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 lists are approximate and are not guaranteed.

Valve Rough-In

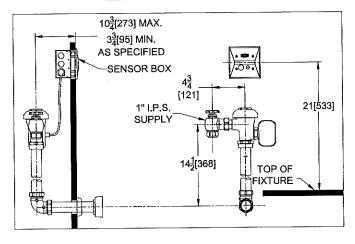
Models ZEMS6000 and ZEMS6200



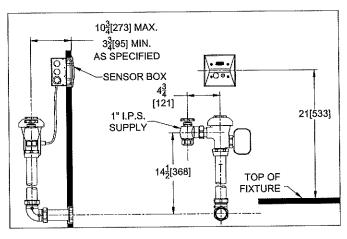
Models ZEMS6000-2, ZEMS6000-3 ZEMS6200-2, ZEMS6200-3



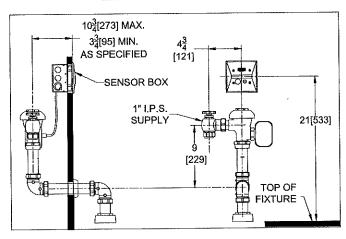
Models ZEMS6140 and ZEMS6240



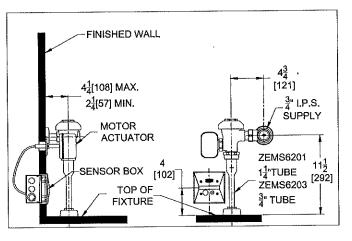
Models ZEMS6152 and ZEMS6252



Models ZEMS6153 and ZEMS6253



Models ZEMS6001, ZEMS6003 ZEMS6201, ZEMS6203

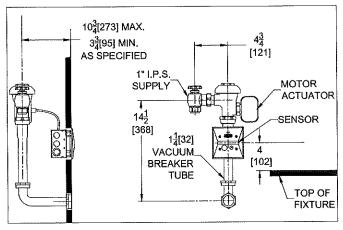


NOTES:

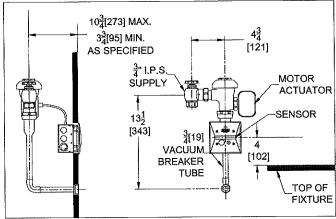
FOR INSTALLATIONS WITH GRAB BAR, CENTERLINE OF 4 X 4 BOX MUST BE A MINIMUM OF 4 INCHES ABOVE CENTERLINE OF GRAB BAR.

Valve Rough-In (Continued)

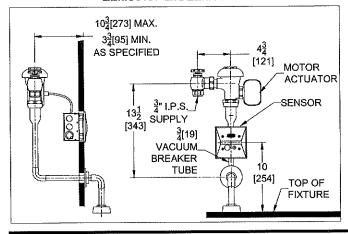
Models
ZEMS6190 and ZEMS6290



Models ZEMS6195 and ZEMS6295



Models
ZEMS6197 and ZEMS6297



Prior to Installation

Prior to installing the Zurn Automatic Sensor-equipped Flushometer, install the items listed below as illustrated in Figures 1 through 3.

- 2-gang electrical box (4 x 4 x 2 1/8, use Steel City #52171-N box, and #52-C-18 device cover or equivalent for sensor with closet or urinal installs);
- Optional: Single-gang electrical outlet for plug-in power converter.
- Electrical wiring to the power converter outlet (120 VAC, 35 watts service required for each power converter used).
- · Closet fixture.
- Zurn carrier system, Z1200 series or equal.

Important:

- ALL ELECTRICAL WIRING IS TO BE INSTALLED IN ACCORDANCE WITH NATIONAL/LOCAL CODES AND REGULATIONS.
- •ALL PLUMBING IS TO BE INSTALLED IN ACCORDANCE WITH APPLICABLE CODES AND REGULATIONS.
- WATER SUPPLY LINES MUST BE SIZED TO PROVIDE AN ADEQUATE VOLUME OF WATER FOR EACH FIXTURE.
- •FLUSHALLWATERLINESPRIORTOMAKING CONNECTIONS.
- SENSOR UNITS SHOULD NOT BE LOCATED ACROSS FROM EACH OTHER OR IN CLOSE PROXIMITY TO HIGHLY REFLECTIVE SURFACES.
- CONTROL STOP SHOULD NEVER BE OPENED TO ALLOW FLOW GREATER THAN FIXTURE IS CAPABLE OF EVACUATING. INTHEEVENT OF VALVE FAILURE, FIXTURE MUST BE ABLE TO HANDLE A CONTINUOUS FLOW.

Electrical

AC/DC Power Supply

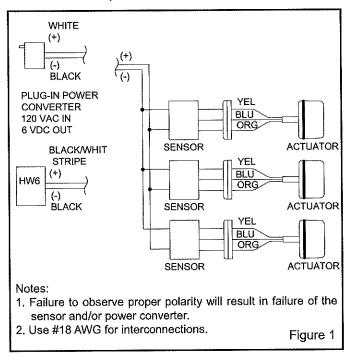
Install hardwired power supply (P6000-HW6) or receptacle for the Zurn Power Converter (P6900-ACA-BA) in a convenient location. An optional mini junction box (P6000-MJ) is recommended to distribute power to each sensor location.

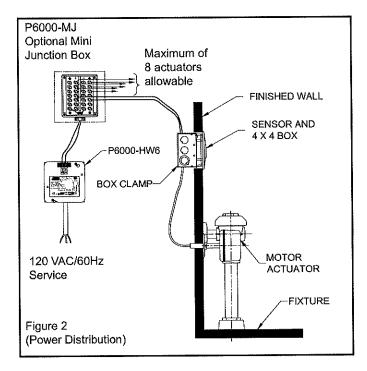
NOTE: One Zurn P6000-HW6 can operate up to eight automatic sensor equipped flushometers, and the optional P6000-ACA-BA Power Converter can handle up to six flushometers and is supplied with a six-foot cord. If additional wire is needed from the Power Converter to the Flushometer(s), use #18 AWG (not provided). **Do not supply power** to the Power Converter until installation of actuator, sensor and Flushometer is completed and checked. **Proper polarity must be observed or damage to one or all components will result.**

Electrical Hook-up (Figure 1)

Be certain power is off to prevent damage to electrical components. Connect the sensor to the actuator and power converter exactly as shown in Figure 1.

Double check that power converter polarity is correct.





Sensor Installation

STEP 1 - Locate Sensor Box

Locate sensor box in the wall according to model number as shown on pages 2 and 3. Install plaster ring so screw holes are on left and right side of box (as shown in Figure 3). Trim tiles to allow screw holes in plaster ring to show.

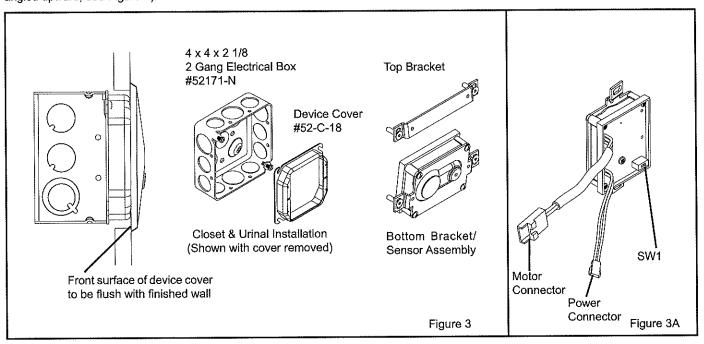
Note: Product is configured at time of shipment for a 168 hour trap seal flush (SW1 in OFF position on rear of sensor). If a 48 hour trap seal flush is desired, set SW1 to ON position. (Figure 3A)

STEP 2 - Mount Automatic Sensor (Figure 3)

Install the Zurn Automatic Sensor into the lower half of the 2-gang electrical box using two (2) screws provided. Connect the 2-wire power cable and 3-wire actuator cable to sensor. Connectors are keyed to insure correct polarity. Ensure that the sensor is mounted in the orientation shown (with lens angled downward, see Figure 4).

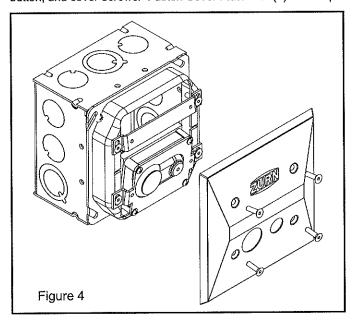
STEP 3 - Install Top Bracket (Figure 3)

Fasten the Top Bracket to the electrical box using (2) screws provided. Ensure that bracket is mounted in the orientation shown (with face angled upward, see Figure 4).



STEP 4 - Install Cover Plate (Figure 4)

Perform a trial fit of the Cover Plate and adjust positions of the sensor and top bracket as needed to ensure alignment of sensor lens, button, and cover screws. Fasten Cover Plate with (4) screws provided.



Mechanical

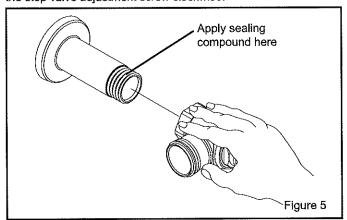
The AquaVantage® design is optimized to operate between 25 and 80 psi (172 to 552 kPa) of water pressure (running). The minimum pressure required for the valve to work properly is determined by the fixture selected. Please consult fixture manufacurer for water pressure requirements. Protect the chrome or special finish of this flushometer during installation. **Do not use toothed tools to install or service the valve as this will damage the finish.** Also, see "Care and Cleaning" section of this manual.

Control Stop Installation Instructions

STEP

Install control stop assembly by threading it onto water supply pipe and tightening with a smooth jawed wrench. Apply thread sealing compound or pipe tape to male NPT thread on sweat solder adapter only. See Figure 5.

Prior to turning on main water supply line ensure all stop valves are closed off tight by using a flathead screwdriver and turning the stop valve adjustment screw clockwise.

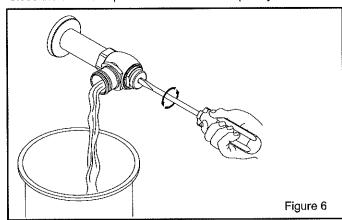


STEP 2

When all stop valves are properly connected to the water supply line and water pressure is available open the control stop using a flathead screwdriver and turning the stop valve adjustment screw counter clockwise. See Figure 6.

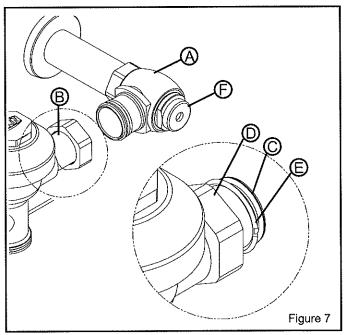
Allow the water supply line to flush any debris or sediment that may be present in the line.

Close the control stop once the lines are completely flushed.



Flush Valve Installation

Prior to attaching flush valve to control inspect and verify that the O-ring seal is located within the O-ring groove at the tailpiece. Ensure the locking nut and locking snap ring are also present on the tailpiece. See Figure 7. Lubricate O-ring with water if necessary and insert flush valve tailpiece into the control stop valve. Tighten locking nut using a smooth jawed wrench.



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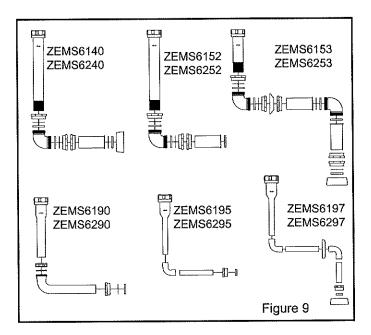
Install Vacuum Breaker Flush Connection

Models ZEMS6000, ZEMS6000-2, ZEMS6000-3, ZEMS6001, ZEMS6003, ZEMS6200, ZEMS6200-2, ZEMS6200-3, ZEMS6201, and ZEMS6203

Slide the tube nut (H), spud nut (G), slip gasket, rubber gasket and spud escutcheon over the vacuum breaker tube and insert tube into fixture spud. Hand tighten tube nut to valve body and hand tighten spud nut onto fixture spud. Adjust the valve assembly for plumb. Tighten fixture spud nut (G), vacuum breaker tube nut (H) and lock nut (D) (fig. 7 & 8) with a wrench.

Vacuum Breaker ZEMS6000 ZEMS6000-1 ZEMS6000-2 (H) Tube Nut ZEMS6000-3 ZEMS6001 ZEMS6003 (G) Spud Nut ZEMS6200 ZEMS6200-1 ZEMS6200-2 Slip Gasket ZEMS6200-3 Rubber ZEMS6201 Gasket ZEMS6203 Spud Escutcheon Figure 8 Models ZEMS6140, ZEMS6152, ZEMS6153, ZEMS6190, ZEMS6195, ZEMS6197, ZEMS6240, ZEMS6252, ZEMS6253, ZEMS6290, ZEMS6295 and ZEMS6297 (Figure 9)

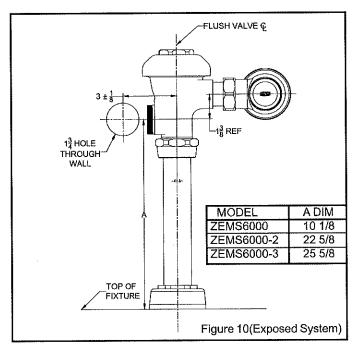
NOTE: When cutting scored pipe, leave a minimum of 1-1/4" of scoring to ensure engagement with compression coupling. Assemble pipe, elbows, couplings, slip washers, rubber gaskets and flanges as illustrated in Figure 9. Hand tighten all couplings. Once installation is completed, tighten all connections.

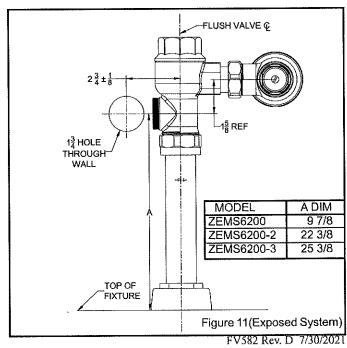


Motor Actuator Installation

- 1. Drill 1-3/4" diameter hole per Figures 10 or 11.
- 2. Run "fish tape" from electrical box to 1-3/4" hole.
- 3. Install actuator escutcheon to the actuator pipe with setscrew toward actuator. Do not tighten setscrew at this time.
- 4. Pull actuator cable through hole with fish tape and back to sensor box. Secure cable to box with box clamp.
- 5. With escutcheon loose and handle port washer installed, push cable into wall. The actuator must be angled away from the valve body at this time until the actuator push rod clears the handle port flange. The actuator can now be mounted to the flush valve and tightened.
- 6. Push escutcheon back to wall and tighten setscrew.

NOTE: See Figure 2 for typical installation including optional mini junction box.





Customized Sensor Range Setting

The ZEMS is factory set to accommodate most closet and urinal installations. If this factory setting does not accommodate your specific environment, follow steps below to customize your range settings for your specific ZEMS model.

CALIBRATION INSTRUCTIONS FOR ZEMS G2

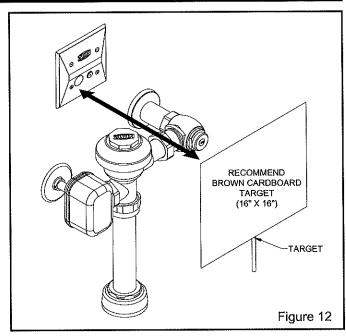
- 1. Obtain a target. SEE FIGURE 12.
- PRESS and HOLD button for 10 seconds or until the LED turns solid.

(*Unit will blink four times and flush once while button is being held)

- 3. RELEASE finger after LED turns solid.
- 4, PRESS and HOLD button when LED starts blinking.
- 5. RELEASE finger when LED turns solid.
- Set target at desired distance, (No less than 16") from sensor face and verify NO other objects are in view of sensor face.
- 7. Keep target steady Unit will blink while calibrating.
- 8. After 30 seconds, calibration ends with a fast double blink or a solid LED for 5 seconds.
- IF THE LED REMAINS SOLID FOR 5 SECONDS AFTER CALIBRATION, the calibration was NOT successful. REPEAT STEPS 2-8
- 10. For closet installations continue to "VERIFY CALIBRATION FOR CLOSET INSTALLATIONS".

Verify Calibration for Closet Installations

- Stand outside closet stall and close door and verify that sensor does not see stall door. If LED blink/flashes, recalibrate to a shorter range.
- 2. Slowly open door to closet stall while looking at ZEMS-IS sensor.
- If led blinks while door is opening, recalibrate to a shorter range.FAILURE TO DO SO WILL RESULT IN GHOST FLUSHING.



Activating the Motor Actuator with the Sensor

To activate the motor actuator with the sensor, simply place a target in front of the sensor. A single red light will flash indicating the sensor has recognized the target. If the target stays in view for eleven seconds, two flashing red lights will occur. This indicates that the target has been in view for the required time and upon leaving the view, a signal will be sent to the motor actuator to flush the flush valve. NOTE: If the target does not stay in view for the required eleven seconds, a flush will not occur.

IMPORTANT NOTE: Excessive water flow creates noise, while too little flow will not satisfy the needs of the fixture. Proper adjustment is made when:

- 1. The plumbing fixture is cleansed after each flush without splashing water out from the lip.
- 2. A quiet flushing cycle is achieved.

After adjustment: Replace the Zurn stop cap screw cover.

Care and Cleaning Instrustructions

Do not use abrasive or chemical cleaners to clean Flushometers, sensor, and actuators as they may degrade the sensor lens, dull the luster, and attack the chrome or special decorative finishes. Use only mild soap and water, then wipe dry with a clean cloth or towel.

While cleaning the bathroom tile, the Flushometer and actuator should be protected from splattering of cleaner. Do not use acids and cleaning fluids as they can damage the optics lens and chrome plating.

Seasonal use.

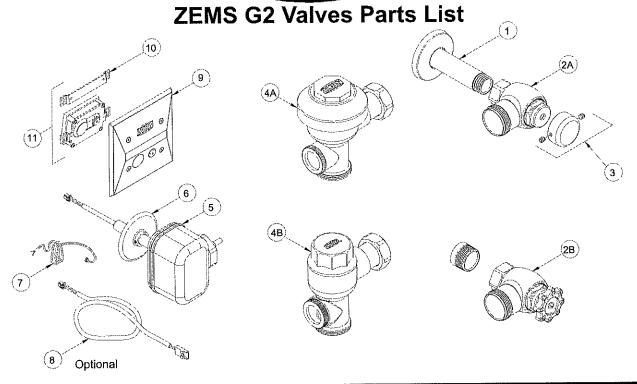
Valves that are used in installations subject to shut down because of cold and freezing conditions should be maintained in the following manner.

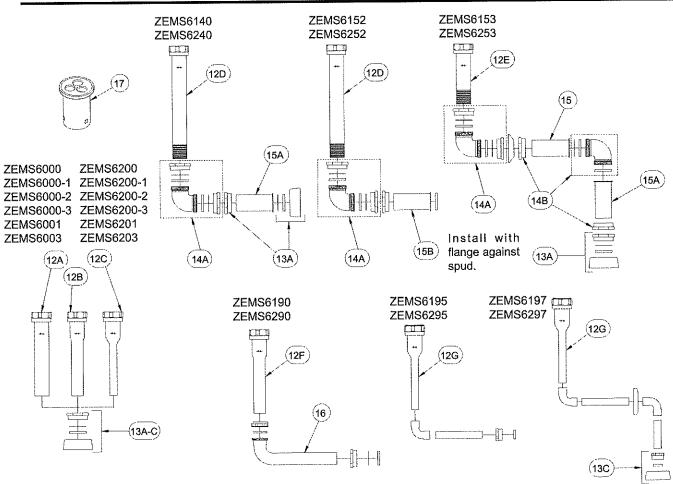
- 1. Shut off the main supply.
- 2. Drained water.
- 3. Remove the stop valve cap and stop internals to allow the water to drain from the flush valve and supply line.

ZEMS G2 Trouble Shooting

roblem	Possible Cause	Corrective Action	
Valve will not operate.	1) Stop valve is closed	1) Open stop valve.	
	2) Supply valve is closed.	2) Open supply valve.	
	The electric wire(s) is not connected.	3) Connect the wires.	
	Sensor lens may be dirty.	4) Clean lens.	
	5) Reflective surface in front of sensor.	5) Remove the reflective surface from in front of the sensor.	
	Detection range not adjusted properly.	6) Adjust the detection range.	
	7) The infrared sensor or the actuator is out of order.	7) Contact distributor for replacement.	
	8) Sensor fault	8) Replace sensor	
	No power provided by power supply	9) Replace power supply	
Flush valve does not	Sensor does not recognize a user	Re-calibrate sensor per "Calibration Instructions" section.	
activate after user leaves	Power supply may be disrupted	Check available voltage where escutcheon is attached to wall with DC voltmeter. 7.4-9 VDC is required.	
		3) Verify connection to actuator.	
Repeated valve activation when power is provided	Insufficient DC power level (less then 7.4 volts DC	1)Upgrade the -HW6 power supply to the new ZURN power supply (greater than 7.4 volts DC) or replace the ACA supply.	
Insufficient volume of	1) Stop valve is not open enough.	Open stop valve for desired volume of water.	
water to adequately	Urinal piston installed in closet valve.	Replace urinal piston with proper closet piston.	
siphon fixture	Insufficient volume or pressure at supply.	Consult fixture guide for minimum gallons per minute flow and running pressure for satisfactory performance.	
Valve is flushing too long or not shutting off.	Trip mechanism not seating properly due to foreign material between trip mechanism and seat.	Disassemble parts and rinse thoroughly.	
	By-pass orifice is plugged or partially plugged.	Examine by-pass orifice and clean if necessary being certal not to enlarge orifice opening.	
	Shall be a second of the	 Pressure is inadequate or has dropped below minimum operating range. Steps should be taken to increase the line pressure. 	
Water splashes out of	1) Supply volume is more than is necessary.	Adjust downward on control stop.	
fixture/	Lime accumulation on vortex or spreader holes of fixture.	2) Remove the lime build up.	
Flush is not considered quiet.	Control stop may not be adjusted for quiet operation.	Adjust the control stop for quiet operation keeping in mind the fixture evacuation requirements.	
quiot.	Fixture may be contributing to noise.	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) Piping system may be source of noise.	High pressure in the system can sometimes be controlled by the stop valve. Other sources of noise may be the absence of air chamber and shock arrestors, loose pipes, improper size pipes, etc. In these cases the building engineer should be consulted.	
Flush valve "ghost"	Sensor Lens may be dirty.	1) Clean lens.	
flushes or activates randomly with no user present.	Power supply output is out of tolerance.	 DC voltage must be between 7.4-9 volts. Check for power fault or malfunction in a unit or replace with a Zur power converter. 	
	3) Sensor is viewing stall door.	Re-calibrate sensor per "Calibration Instructions" section.	
Flush valve shuts off too	Diaphragm Valves		
quick.	1) Damaged diaphragm.	1) Install new P6000-ECA, P6000-EUA replacement kit.	
	2) Enlarged by-pass orifice.	2) Install new P6000-ECA, P6000-EUA replacement kit.	
	Piston Valves		
	1) Damaged piston.	1) Install new P6200-EC, P6200-EU replacement kit.	
	2) Enlarged by-pass orifice.	2) Install new P6200-EC, P6200-EU replacement kit.	
Valve is short flushing	Diaphragm Valves		
vaive is short illishing		1) Install new P6000-ECA, P6000-EUA replacement kit.	
	Enlarged by-pass orifice.		
		Replace urinal piston with proper closet piston.	
	Distance by-pass ornice. Distance by-pass ornice. Distance by-pass ornice. Distance by-pass ornice. Piston Valves		
	Urinal piston installed in closet valve.		



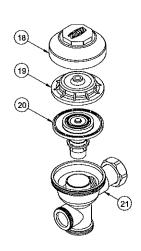




ZEMS G2 Valve Parts List (Continues)

		•			
1.	P6000-YBYC	Closet Cast Wall Escutcheon & Solder Kit	12A.	P6000-A-AA-CP	Chrome Plated 1-1/2" X 8 1/2" Vacuum
	P6003-YBYC	Urinal Cast Wall Escutcheon & Solder Kit			Breaker Assembly
2A.	P6000-C-SD-CP	Chrome Plated Closet Stop Assembly		P6000-2-A-AA-CP	Chrome Plated 1-1/2" X 21" Vacuum
	P6003-C-SD-CP	Chrome Plated Urinal Stop Assembly			Breaker Assembly
	P6000-C-SD-RB	Rough Brass Closet Stop Assembly		P6000-3-A-AA-CP	Chrome Plated 1-1/2" X 24" Vacuum
	P6003-C-SD-R8	Rough Brass Urinal Stop Assembly			Breaker Assembly
2B.	P6000-C-WH-CP	Chrome Plated Closet Stop Assembly for	12B.	P6001-A-AA-CP	Chrome Plated 1-1/4" X 8 1/2" Vacuum
		Wheel Handle			Breaker Assembly
	P6003-C-WH-CP	Chrome Plated Urinal Stop Assembly for	12C.	P6003-A-AA-CP	Chrome Plated 3/4" X 8 1/2" Vacuum
		Wheel Handle			Breaker Assembly
	P6000-C-WH-RB	Rough Brass Closet Stop Assembly for	12D.	P6000-1-A-AA-RB	Rough Brass 1-1/2" X 12 1/2" Vacuum
		Wheel Handle			Breaker Assembly
	P6003-C-WH-RB	Rough Brass Urinal Stop Assembly for	12E.	P6000-A-AA-RB	Rough Brass 1-1/2" X 5" Vacuum
		Wheel Handle			Breaker Assembly
3.	P6000-VC	Vandal-Resistant Control Stop Cover	12F.	P6001-10-A-AA-RB	Rough Brass 1-1/4" X10" Vacuum
4A.	Varies(Z60,Z61)	Diaphragm Valve			Breaker Assembly
4B.	Varies(Z62)	Piston Valve	12G.	P6003-10-A-AA-RB	Rough Brass 3/4" X 10" Vacuum
5.	PEMS6000-HYM-G2	ZEMS Actuator			Breaker Assembly
6.	PEMS6000-G	ZEMS Escutcheon	13A.	P6000-H	1 1/2" Spud Coupling Assembly
7.	PEMS6000-CWB-G2	Sensor Power Supply Cable	13B.	P6001-H	1 1/4" Spud Coupling Assembly
8.	PEMS6000-CW-G2	Motor-Sensor Connector Extension	13C.	P6003-H	3/4" Spud Coupling Assembly
٥.	1 11/10/00/00 011 011	Cable, 24" (Optional)	14A.	P6000-QE3-RB	Rough Brass 1 1/2" Slip Elbow Assembly
		(Max 2 per installation)	148.	P6000-QE3-CP	Chrome Plated 1 1/2" Slip Elbow Assembly
9.	PEMS6000-22-G2	ZEMS Sensor Plate with fasteners	15A.	P6000-QT1-xx	Chrome Plated Slotless Tube
10.	PEMS6000-22-KIT-G2	ZEMS Top Bracket with fasteners	158.	P6000-QT3-xx	Rough Brass Slotless Tube
11.	PEMS6000-26-G2	ZEMS Sensor with top bracket and	16.	Varies	Rough Brass Slip Elbow
11.	1 E14130000-20"GZ	fasteners	17.	P6000-B-HP	Vacuum Breaker
		justici s			

Z6000 Series



Diaphragm Valves (Z6000 Series)

18. P6000-LL-CP Chrome Plated Valve Body Outside Cover P6000-LL-RB Rough BrassValve Body Outside Cover Valve Body Inside Cover Valve Body Inside Cover Closet Repair Kit (3.5 gpf)

P6000-ECA-WS Closet Repair Kit (3.5 gpf)
P6000-ECA-WS1 Low Consumption Closet Kit (1.6 gpf)
P6000-ECA-HET High Efficiency Closet Kit (1.28 gpf)
P6000-EUA-WS Urinal Repair Kit (1.5 gpf)

P6000-EUA-WS1 Low Consumption Urinal Kit (1.0 gpf)
P6000-EUA-EWS High Efficiency Urinal Kit (0.5 gpf)

P6000-EUA-ULF Pint Urinal Kit (0.125 gpf)

1. P6000-19 Valve Body

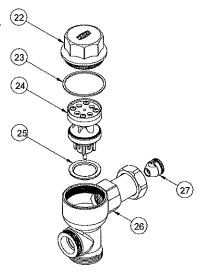
Piston Valves (Z6200 Series)

27.

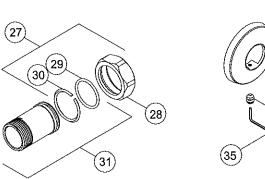
Valve Body Cover P6200-LL-CP .125 gpf Vavle Body Cover P6200-LL-ULF-CP Valve Body Cover Gasket 23. P6200-LL-CG P6200-EC-WS1 Low Consumption Closet Kit (1.6 gpf) 24. High Efficiency Closet Kit (1.28 gpf) P6200-EC-HET P6200-EU-WS1 Low Consumption Urinal Kit (1.0 gpf) High Efficiency Urinal Kit (0.5 gpf) P6203-EU-EWS P6203-EU-ULF Ultra Low Flush Kit (.125 gpf) Main Seat 25. P6000-S-30 ,125 gpf Main Seat P6200-MS-ULF Valve Body 26. Varies

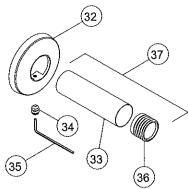
PTR6203-FA-LF Urinal 0.125/0.250 gpf Tailpiece filter

Z6200 Series

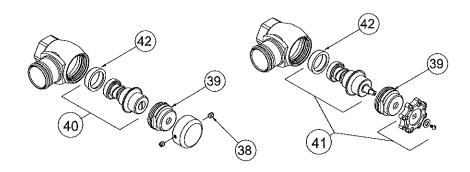


Valve Repair Parts List (Continues)





- 27. P6000-K
- 28, P6000-C32-CP P6000-C32-RB
- 29. P6000-C31
- 30. P6000-C30
- 31. P6000-J_
- 32. P6000-YC P6003-YC
- Tailpiece Coupling Assembly Chrome Plated Locking Nut Rough Brass Locking Nut Tailpiece O-Ring Snap Ring
- Adjustable Tailpiece Assembly
 1" Cast Wall Escutcheon
 3/4" Cast Wall Escutcheon
- 33, P6000-YB-CVR P6003-YB-CVR
- 34. P6000-YC-SS
- 35. P6000-VC-W-VP
- 36. P6000-YBA P6003-YBA
- 37. P6000-YB P6003-YB
- 1"Supply Cover Tube 3/4" Supply Cover Tube Setscrew for Cast Wall Escutcheon 5/64 Allen Wrench 1" Sweat Solder Adapter 3/4" Sweat Solder Adapter 1" Sweat Solder Kit
- P6003-YB 3/4" Sweat Solder Kit



- 38. P6000-VC-SS
- 39. P6000-C34-CP P6000-C34-RB
- 40. P6000-D-SD
- 41. P6000-D-WH
- 42. P6000-D42
- Set Screw for Control Stop Cover Chrome Plated Stop Cap Bonnet Rough Brass Stop Cap Bonnet
- Stop Cap Internals
- Stop Cap Internals with Wheel Handle
- Stop Seat

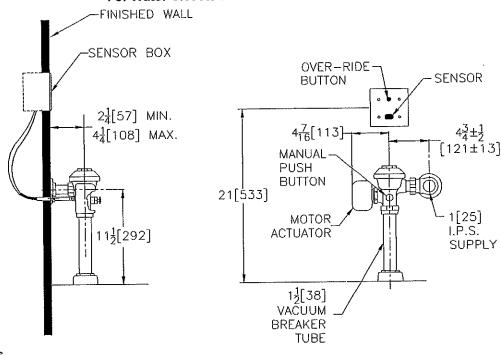


AquaSense® Model

TAG

ZEMS6000-YB-YC-MOB

Hardwired Automatic Sensor Flush Valve For Water Closets With Manual Override Button



Flow Options

■ -HET 1.28 gpf High Efficiency Flush
□ -WS1 1.6 gpf Low Consumption Flush

□ 3.5 gpf

□-FF 4.5 gpf Full Flush

Accessories

□-FM12 Floor Mount 12" Rough In
□-YJ Split Ring Pipe Support
□-YK Solid Ring Pipe Support
□-YO Bumper on Angle Stop
□- Other

Power Supply Choices (Sold Separately)

□-ACA-BA 6VDC Plug-in Power Converter (Up to 6 valves)
□-HW6 Hardwired Power Converter (Up to 8 Valves)

☐ -MJ Mini Junction Box

NOTE: MUST USE EITHER ZURN P6000-HW6 HARDWIRE POWER CONVERTER OR ZURN P6900-ACA-BA PLUG-IN POWER CONVERTER TO ENSURE PROPER OPERATION. USING A POWER CONVERTER OTHER THAN ZURN MAY RESULT IN OPERATION MALFUNCTION OR UNIT FAILURE.

ENGINEERING SPECIFICATION: ZURN ZEMS6000-YB-YC-MOB AquaSense® Exposed Hardwired Automatic Sensor Flush Valve For Water Closets- Exposed, quiet diaphragm-type, chrome plated, flushometer valve with a polished exterior. Complete with Zurn's chloramine resistant, dual seal diaphragm with a clog resistant by-pass. The valve incorporates a motorized actuator, an automatic sensor with a manual push-button override, high back pressure vacuum breaker, one piece hex coupling nut, adjustable tailpiece, spud coupling and flange for top spud connection. Switchable sensor features include: courtesy flush, automatic 8 hour flush, and diagnostic indicator lights. Control stop has internal siphonguard protection, vandal resistant stop cap, sweat solder kit, and a cast wall flange with set screw. Internal seals are made of chloramine resistant materials. Electrical box is not provided (see installation instrucions for type and size). Note: Order power converter separate.

Architectural/Engineering Approval

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

ZURN INDUSTRIES, LLC. ♦ COMMERCIAL BRASS OPERATION ♦ 5900 ELWIN BUCHANAN DRIVE ♦ SANFORD NC 27330 Phone: 1-800-997-3876 ♦ Fax: 919-775-3541 ♦ World Wide Web: www.zurn.com

In Canada: ZURN INDUSTRIES LIMITED ◆ 7900 Goreway Drive Unit 10 ◆ Brampton, Ontario L6T5W6 ◆ Phone: 905-405-8272 Fax: 905-405-1292

Dwg. No. 316957

Date: 8/3/2017

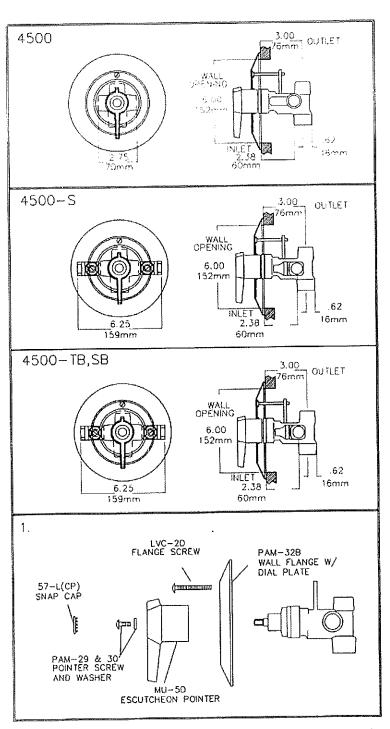




AQUATROL®4500 PRESSURE ACTUATED MIXING VALVES (1/2")

INSTALLATION INSTRUCTIONS

Serial No. 4500 00001 and higher



- Valve must NOT be scaled in wall with plaster or tile. Cover screws and inlet fittings MUST be accessible for servicing.
- It is recommended that the valve is furnished with inlet stops or checkstops on each supply. Type F. and SB checkstops should be disassembled before soldering to prevent damage to packing.
- Install hot to left inlet and cold to right inlet (see H and C marks on valve body).
- 4. Pipe cement, or solder flux must be used sparingly. After connections are made to the valve. flush pipes thoroughly (remove internal parts if necessary) to eliminate dirt and excess materials which might become lodged on the working parts of the valve.
- 5. Attach protective cover which serves as a guide for the finish wall line after piping connections are made.
- 6. IMPORTANT! The AQUATROL® valve is designed for top and bottom outlet. When used for showers, the top outlet only is used and the pipe plug is left in the bottom outlet. When used for shower AND tub, remove the pipe plug from the bottom outlet and pipe down to a diverter tub spout. No special elbow is required, (see installation drawings, page 4).
- After the valve is installed as noted above, recheck and reset the adjustable high temperature limit stop (see instructions, page 3)



WARNING



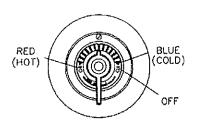
WARNING! THIS MIXING VALVE IS EQUIPPED WITH AN ADJUSTABLE HIGH TEMPERATURE LIMIT STOP FACTORY SET AT APPROXIMATELY HOT(43°C) WITH AN INCOMING HOT WATER SUPPLY TEMPERATURE OF 135°F(57°C) IF INCOMING HOT WATER ON THE JOB IS HIGHER THAN 135°F, THE VALVE WHEN TURNED TO FULL HOT MAY DELIVER WATER IN EXCESS OF HOT, AND THE HIGH TEMPERATURE LIMIT STOP MUST BE RESET BY THE INSTALLER (SEE PAGE 2)

- Mount the wall flange to the valve body, using the LVC-2D wall flange screw.
- Attach the pointer to the valve stem (using the pointer screw and washer), and insert snap cap. The top (short) end of the pointer should point to "OFF" on the dial plate.

WARNING! HOT WATER IN EXCESS OF 110°F IS DANGEROUS AND MAY CAUSE SCALDING!

OPERATION

The AQUATROL 84500 is a pressure-actuated water mixing valve which will compensate for changes in the pressure of hot and cold supplies and maintain bathing temperatures. The easy to read dial with directional indicators helps to eliminate confusion as to where the handle should be located for a particular temperature. Turn the handle counter-clockwise from the "OFF" position through the BLUE (or COLD) area on the dial plate, the shower is on and temperature is cold. As the handle enters the lighter RED area, shower temperature becomes progressively WARMER until the high temperature limit is reached in the full RED (or HOT) position. To turn OFF move handle back in clockwise direction to the "OFF" position.



SERVICING INSTRUCTIONS

- Remove escutcheon pointer (MU-5D) and wall flange (PAM-32B)(See DWG 1).
- 2. Turn off hot and cold supplies.
- Temporarily place escutcheon pointer on spline and turn LEFT to maximum "HOT" position. Unscrew cover and remove complete interior assembly (See DWG 4).
- 4. If valve will not shut off (ie. it drips), replace PV-8-1 upper packing, PV-2 lower packing, and inspect upper and lower valve seats in PV-3 sleeve (DWG 5).
- If valve will not mix properly, piston in PV-CR-2 control rod group may be sticking due to some deposit of foreign matter (DWG 5). To free piston:
 - a. Tap either end of control rod against a wooden surface or hit with a plastic mallet.
 - b. Remove PV-2 packing and screw and tap piston loose with a small drift pin.
 - e. Submerge lower end of PV-CR-2 control rod group in noncorrosive cleaning solution and flush with clean water.

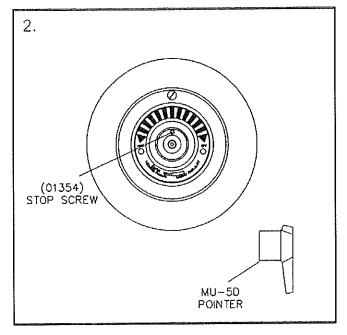
NOTE: Before reinserting assembly in valve (with cover gasket) make sure escutcheon pointer has been turned LEFT to the maximum RED ("HOT") position.



WARNING



WARNING! THIS MIXING VALVE IS EQUIPPED WITH AN ADJUSTABLE HIGH TEMPERATURE LIMIT STOP FACTORY SET AT APPROXIMATELY 110°F(43°C) WITH AN INCOMING HOT WATER SUPPLY TEMPERATURE OF 135°F(57°C). IF INCOMING HOT WATER ON THE JOB IS HIGHER THAN 135°F, THE VALVE WHEN TURNED TO THE FULL HOT MAY DELIVER WATER IN EXCESS OF 110°F, AND THE HIGH TEMPERATURE LIMIT STOP MUST BE RESET BY THE INSTALLER. (SEE BELOW)

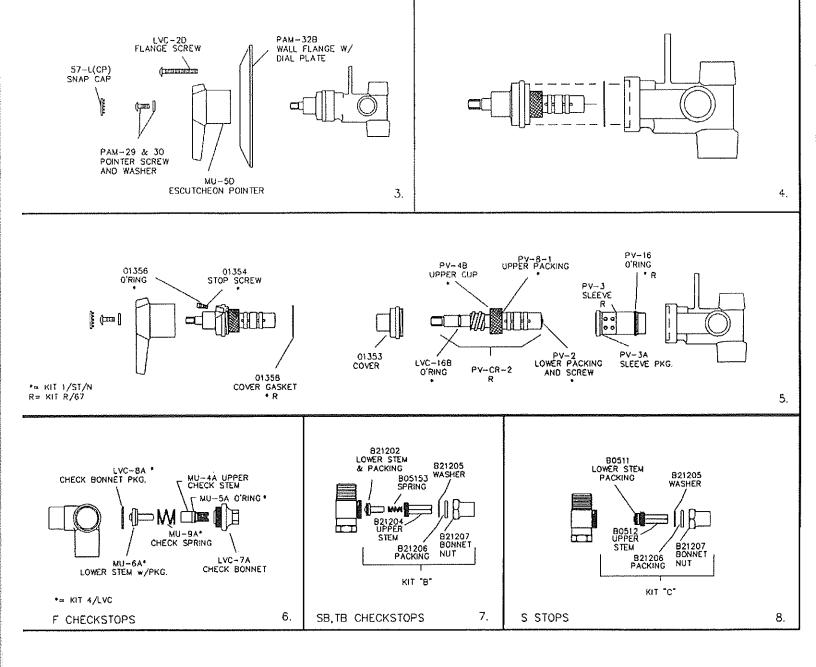


TO RESET HIGH TEMPERATURE LIMIT STOP (DWG 2.):

- Remove pointer (MU-5D). Loosen 01354 stop screw but DO NOT REMOVE.
- 2. Replace pointer and turn to left or right until the valve is delivering the highest temperature of 110°F (43°C) or LOWER and remove pointer.
- 3. Tighten 01354 Stop Screw.
- Reinstall pointer so small end is pointing to the extreme RED ("HOT")
 position, shut valve off.

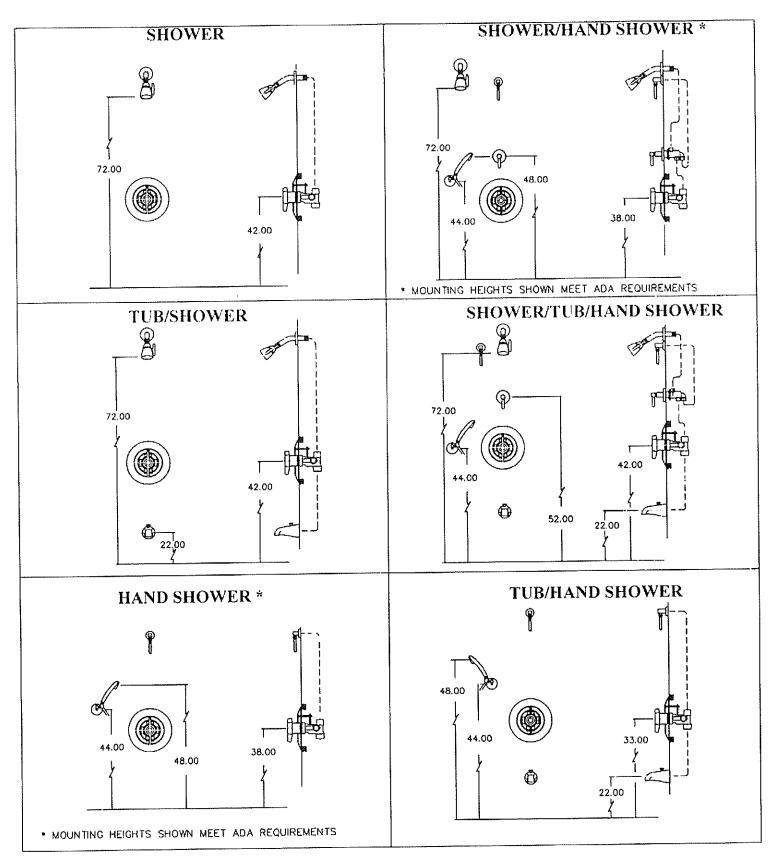
IMPORTANT! TEST THE NEW HIGH TEMPERATURE SETTING USING A DIAL THERMOMETER TO MAKE CERTAIN IT AS DESIRED. HOT WATER IN EXCESS OF 110°F IS DANGEROUS AND MAY CAUSE SCALDING!!

REMEMBER!! THIS IS A CONTROL DEVICE WHICH MUST BE CLEANED AND MAINTAINED ON A REGULAR BASIS (SEE MAINTENANCE GUIDE AND RECORD MGR-1000).



SERVICING INSTRUCTIONS

	SYMPTOM:	KIT REQUIRED:	PARTS INCLUDED:
PACKINGS & O'RINGS	1. Leak at handle. 2. Valve will not shut off completely. 3. Valve is difficult to pull apart. 4. Leak at stop screw.	Kit I/ST/N	PV-2, PV-4B, PV-8-1, LVC-16B, 01358, 01356 PV-16
CONTROL ROD GROUP	Valve delivers either all hot or all cold water, or will not mix consistently.	Kit R/67	01358, PV-CR-2, PV-3, PV-16
INSERTED SEAT	After replacing packings and O-rings, valve will not shut off completely.		PV-3, PV-3A, PV-16
CHECKSTOPS. STOPS	7. Supplies cannot be shut off completely. 8. Leak at checkstop (or stop) bonnet or stem.		SEE DWG #6.7. or 8 ABOVE FOR REPAIR KITS



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.

WALL GRAB BARS & HAND SHOWERS SETS



24" (61 cm) ADA wall grab bar, stainless steel, 1.5" (38mm) outside diameter, concealed screw mounting system (mounting hardware included)

Slide mechanism operable by left hand, right hand, or closed first, 2.65" (67mm) lever, meets Handicapped Accessibility Standard of less than 5lb handle operating force and can swivel to ensure easy reach

Withstands 1000 lb pull (NOTE: Grab Bar must be securely attached to wall or backing to provide safety)

Wall Grab bar can be securely mounted at 90 degree angle Hand spray with non-positive push button shut-off Braided stainless steel flexible hose, 60"

2 wall hooks

Double check valve backflow preventer

Supply elbow and flange

2.5 GPM (9.5 l/min.) max. flow rate

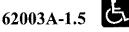


Same as above except 1.5 GPM (5.7 l/min.)



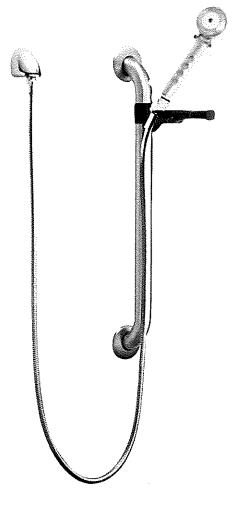


• Same as above except 36" grab bar (91 cm)



• Same as above except 36" grab bar (91 cm) & 1.5 GPM (5.7 l/min.)





OPTIONAL (fits all models):

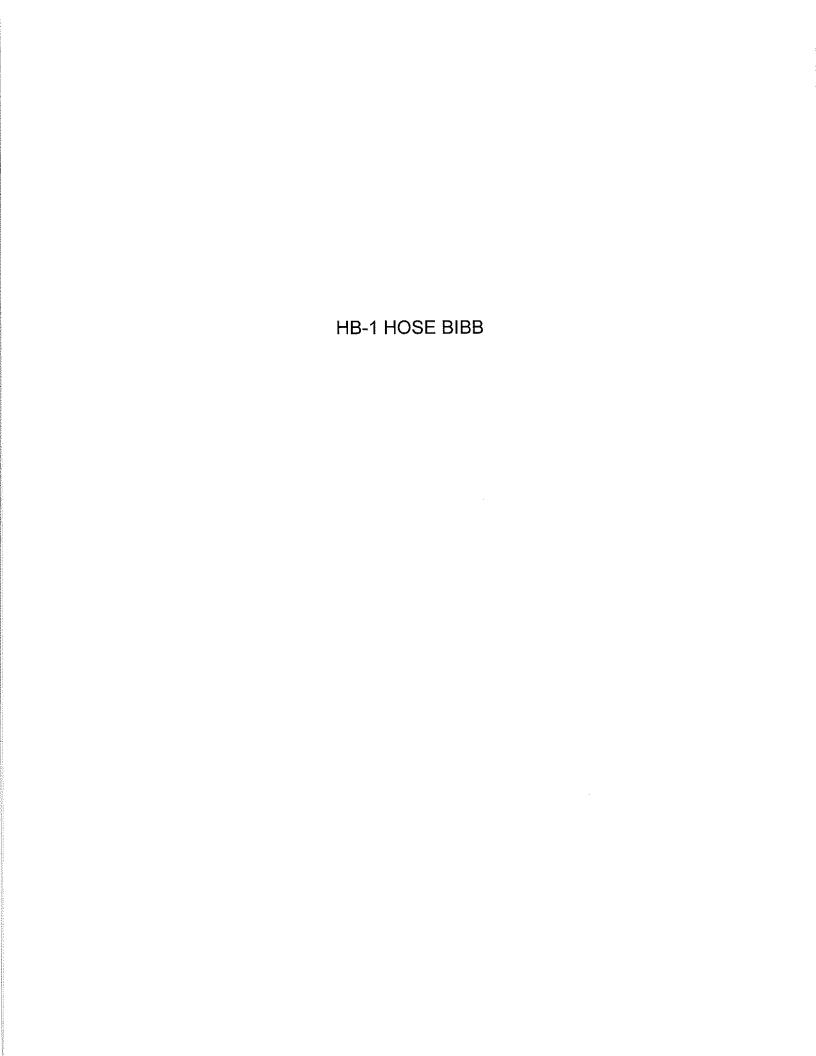
SUFFIX RV- White vinyl hose SUFFIX 72 - 72" Hose in place of 60"



1360 Elmwood Avenue, Cranston, RI 02910 USA Phone: 401.461.1200 Fax: 401.941.5310

Email:

WEB: http://www.leonardvalve.com





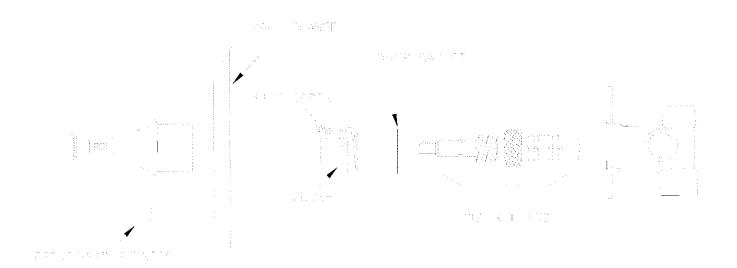
Care & Cleaning Instructions AQUATROL® 4500, PAM®-II-ST, ADVANTAGE® 6700

The escutcheon pointer & wall flange should never be cleaned with abrasive cleaners or polish. Wipe surfaces with a damp cloth and dry with a soft towel.

Cleaning Instructions:

- 1. Remove escutcheon pointer and wall flange.
- 2. Turn off hot and cold water supplies.
- 3. Temporarily place escutcheon pointer on spline and turn LEFT to maximum "HOT" position. Unscrew cover and remove complete interior assembly.
- 4. Remove control rod from assembly, submerge in non-corrosive cleaning solution and flush with clean water. Do not attempt to adjust or remove the stop screw, this will change the high temperature limit setting.

NOTE: Before reinserting assembly in valve (with cover gasket) make sure escutcheon pointer has been turned LEFT to the maximum RED ("HOT") position.



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

Cleaning and Care Instructions BioPrism® Solid Surface

Cleaning and Care of your BioPrism® Solid Surface

There are two types of solid surface finishes: matte and satin. Lighter colors are finished with a matte finish, and darker colors receive a satin finish. All solid surface sinks have a matte finish.

Soapy water, ammonia based cleaners (not window cleaners as they can leave a waxy build up that may dull the surface) or commercially available solid surface cleaners will remove most dirt and residue from all types of finishes. Stubborn residue will require a little stronger cleaner. Follow the recommendations on the next page to properly clean your sink.

To prevent build up of a film on the surface, it is very important to wipe the surface completely dry after spills and cleaning.

 Some colors of BioPrism® Solid Surface may require more frequent cleaning to maintain a uniform finish. Darker colors tend to require more attention than lighter colors. Over time, even with proper care your countertop will acquire a patina, changing the appearance of the finish. You may restore the look of the original finish by following the renewing a finish guidelines below. To enhance the gloss level on satin finishes, use a countertop polish such as Rock Doctor Granite Polish.

A key to keeping your surfaces looking good is to thoroughly wipe completely dry after cleaning.

Surfaces - Cleaning all Finishes

Most Dirt & Residue

Use soapy water, ammonia based cleaner, (not window cleaner) rinse and wipe completely dry. Commercially available solid surface cleaners, such as Clean Encounters will also work well.

Prevent Hard Water Marks

Rinse and wipe completely dry after cleaning. On vertical surfaces a squeegee works well.

Removing Hard Water Marks

Use Cleaner formulated for removing hard water marks, such as CLR.

Disinfecting

Occasionally wipe surface with diluted household bleach - 1:10 (1.5 cups of bleach to 1 gallon of water, As recommended by the Centers For Disease Control and Prevention for disinfection and sterilization of surfaces)

Sinks & Lavs

Cleaning

Follow procedures above or use Soft Scrub and a Scotch-Brite® pad to remove residue. Rub Scotch-Brite® pad over entire sink to blend finish.

Note: Do Not Use Scotch-Brite® pad on finished surfaces as this will dull the surface!

Disinfecting

Fill your sink 1/4 full with diluted household bleach (5 Tbsp. bleach to 1 gallon water). Be sure to get some of the solution into the overflow opening to disinfect. Let the solution stay in the sink for 15 minutes; then wash sides and bottom as the solution drains. Rinse out the sink with water.

Shower Receptors/Bases

Cleaning

Spray surface until thoroughly wet with LYSOL Power & Free Bathroom Cleaner, wipe with a clean cloth or sponge. No rinsing required.

Removing Soap Scum, Limescale and Rust Stains

Spray surface until thoroughly wet with LYSOL Power & Free Bathroom Cleaner, allow product to sit for 10 minutes before wiping with a clean cloth or sponge. Repeat if necessary.

Magnetic Grate - Iron Deposit Removal

Moisten a clean soft cloth with water. Gently wipe off the surfaces containing iron deposits to remove iron from the surface of the grate or magnets. Repeat with clean sections of the rag until all iron deposits are removed.

Notes:

- Do not use abrasive cleaners or cloths to clean off iron deposits, this could damage the surfaces of the grate or magnets, or weaken the adhesive bonds.
- Do not scrape/chip off iron deposits with screw drivers, chisels, or putty knives, this could damage the surfaces of the grate or magnets, or weaken the adhesive bonds.
- Household vinegar may be used in place of water for stubborn iron deposits.

IPC.701/REV.12



Cleaning and Care Instructions BioPrism® Solid Surface

Preventing Heat Damage

While Inpro® BioPrism® Solid Surface is heat resistant, as with all solid surface materials, it is important to minimize direct heat exposure to protect your surface and investment.

Do not place hot objects directly on the surface.

Always use heat trivets or hot pads when placing hot objects on any surface. Always use a trivet under portable heat generating appliances such as a griddle or crockpot. Allow cookware to cool before placing it into a Solid Surface sink.

Preventing Other Damage

In most cases BioPrism® Solid Surface can be repaired if damaged. Be sure to follow these guidelines to help you prevent permanent damage to your surface or sink:

- Avoid getting strong chemicals, such as paint removers, oven cleaners, etc., on your BioPrism® Solid Surface. If a spill does occur, promptly flush the surface with water to fully rinse off the chemical.
- Do not cut directly on BioPrism® Solid Surface. Use a cutting board or trivet.
- Boiling water alone will not damage your sink; however, it is a recommended practice to run cool water from the faucet while pouring boiling water into the sink.

Removing Dull or Blotchy Appearance

Typically this is caused by letting hard water dry on the surface, which will leave a film of minerals.

- Pour some mild abrasive liquid cleaner, such as Soft Scrub, on a damp sponge or cloth and rub over area using small circular motions, from the front to the back, then side to side, overlapping the circles until the entire area has been cleaned.
- Thoroughly rinse the top with clean water and wipe the surface completely dry.
- Check to see if the blotchiness is gone. If not, repeat the procedure applying more pressure on the sponge or rag.
- Continue over all affected areas until film is removed.
- To enhance the gloss level on satin finishes, use a countertop polish such as Rock Doctor Granite Polish.

Note: While this procedure may remove or minimize the look of the very fine scratches, other deeper scratches may remain. They may be removed by following the procedure below or you may wish to hire a local fabricator to refinish your countertop. Contact your Inpro® BioPrism® Solid Surface Sales Rep to inquire about getting a referral for a local fabricator.

Renewing the Finish

Sanding:

Using a 5" or 6" random-orbital sander, move the sander in an orbital pattern, overlapping each pass by 50%. Sand slowly and evenly, keeping the micron paper clean from sanding dust (Check paper frequently).

Matte Finish (Class A & A1)

 Use a 100 micron sanding pad to remove marks and scratches and even out the finish.
 The easily maintained matte finish is suitable for high use areas.

Satin Finish (Class B)

- Remove marks and scratches with a 100 micron sanding pad.
- Repeat the process with a 60 micron sanding pad.
- Use a Scotch-Brite® pad (#7447 Maroon, Very Fine, 320-400 Grit) under the sanding pad to even out the finish.
- Repeat the process with a Scotch-Brite® pad (#7448 Gray, Ultra Fine, 600-800 Grit).

Sources for materials mentioned above:

CLR*	Local Retail
Registered trademark of Jelmar	
Clean EnCounters®	Stone Care International
Registered trademark of Stone Care International	(800) 839-1654
Scotch Brite™	Local Retail
Registered trademark of 3M Company	
Soft Scrub®	Local Retail
Registered trademark of the Dial Corporation	
Rock Doctor Granite Polish	Local Retail
Rock Doctor Products, a division of Apex Products	
LYSOL Power & Free Bathroom Cleaner	Local Retail
Registered trademark of Reckitt Benckiser, Inc	

When used properly, LYSOL Power & Free Bathroom Cleaner kills the following bacteria and viruses on hard non-porous surfaces: Salmonella enteric (Salmonella), Escherichia coli O148:H7, Pseudomonas aeroginosa, Staphylocuccus aureus (Staph), Avian Influenza AH1N1, Herpes Symplex Virus Type 1, Rhinovirus Type 37, Rotavirus WA (Source: LYSOL website)

Quality Assurance

With proper care, your BioPrism® Solid Surface can stay looking like new. Your Inpro® BioPrism® Solid Surface carries a 10-year Limited Warranty.





Safety Data Sheet

BOSS® 385 Tub & Tile Silicone

Section 1. Identification

Product Identifier

BOSS® 385 Tub & Tile Silicone

Synonyms

38508; 38505; 38501; 38500

Manufacturer Stock

01034WH48; 01034CL48; 01034AM48; 01034TW48

Numbers

Recommended use

Refer to Technical Information

Uses advised against

Refer to Technical Information

Manufacturer Contact

Address

Soudal Accumetric 350 Ring Road

Elizabethtown, KY, 42701

USA

Phone

Emergency Phone

Fax

(270) 769-3385

(800) 424-9300

(270) 765-2412

CHEMTREC

Section 2. Hazards Identification

Classification

N/A

Signal Word

Pictogram

Hazard Statements

N/A

Precautionary Statements

Response

N/A

Prevention

Use only outdoors or in a well-ventilated area.

Storage

N/A

Disposal

N/A

Ingredients of unknown

toxicity

0%

Hazards not Otherwise

Classified

GHS Classification

Not a hazardous substance or mixture.

GHS Label Element

Not a hazardous substance or mixture.

Other hazards

None known

Section 3. Ingredients

CAS	Ingredient Name	Weight %
64742-46-7	Distillates (petroleum), hydrotreated middle	5% - 10%
7631-86-9	Amorphous silica	5% - 10%

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-Aid Measures

Immediately flush the contaminated eye(s) with lukewarm, gently flowing water **Eve Contact**

for 5 minutes while holding the eyelids open. Obtain medical attention.

No health effects expected. If irritation does occur, flush with lukewarm, gently Skin Contact

flowing water for 5 minutes. If irritation persists, obtain medical advice.

If symptoms are experienced remove source of contamination or move victim Inhalation

to fresh air. If irritation persists, obtain medical advice.

If irritation or discomfort occur, obtain medical advice. Ingestion

Treat according to person's condition and specifics of exposure. Comments

Section 5. Fire Fighting Measures

Suitable Extinguishing

Media

On large fires use dry chemical, foam, or water spray. On small fires use carbon dioxide, dry chemical or water spray. Water can be used to cool fire

exposed containers.

Unsuitable Extinguishing

Media

None known

Special Fire Fighting

Procedures

Self-contained breathing apparatus and protective clothing should be worn when fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to

keep fire exposed containers cool.

Unusual Fire or Explosion None known

Hazards

Section 6. Accidental Release Measures

Steps to be taken in case of spill or release

Observe all personal protection equipment recommendations in Sections 5 and 8. Wipe or scrape up and contain for salvage or disposal. Clean area as appropriate since spilled materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbant or cleaning materials appropriately, since spontaneous heating may occur. Local, state and federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which federal, state and local laws and regulations are applicable. Sections 13 and 15 of this MSDS provide information regarding certain federal and state requirements.

Note

See Section 8 for information about personal protective equipment for spills.

Contact Accumetric, LLC if additional information is required.

Section 7. Handling and Storage

Storage

Use reasonable care and store away from oxidizing materials. Keep container closed and store away from water or moisture. This material in its finely divided form presents an explosion hazard. Follow NFPA 654 (for chemical dusts) or 484 (for metal dusts) as appropriate for managing dust hazards to minimize secondary explosion potential.

Handling

Use adequate ventilation. Product evolves acetic acid when exposed to water or humid air. Provide ventilation during use to control acetic acid within exposure guidelines or use respiratory protection. Avoid eye contact. Avoid skin contact.

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits

Ingredient Name

ACGIH TLV OSHA PEL STEL

Distillates (petroleum), hydrotreated middle 5 mg/m3 5 mg/m3 10 mg/m3
Amorphous silica 10 mg/m3 6 mg/m3 Not Est.

Personal Protective Equipment Goggles, Gloves

Engineering Controls

Local Ventilation: None should be needed General Ventilation: Recommended

Respiratory Protection

No respiratory protection should be needed.

Suitable Respirator: None should be needed.

Eye Protection

Use proper protection - safety glasses as a minimum.

Skin Protection

Wash at mealtimes and end of shift. Contaminated clothing and shoes should be removed as soon as practical and throughly cleaned before reuse.

Chemical protective gloves are recommended.

Suitable Gloves:

Handle in accordance with good industrial hygiene and safety practices.

Precautionary Measures

Avoid eye contact. Avoid skin contact. Use reasonable care.

Comment

Product evolves acetic acid when exposed to water or humid air. Provide ventilation during use to control acetic acid within exposure guidelines or use

respiratory protection.

When heated to temperatures above 150C (300F) in the presence of air, product can form formaldehyde vapors. Physical and health hazard information is readily available on the Material Safety Data Sheet. When heated to temperatures above 150C in the presence of air, product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard, a known skin and respiratory sensitizer, and an irritant to the eyes, nose throat, skin and digestive system. Safe handling conditions may be maintained by keeping vapor concentrations within the OSHA Permissible Exposure Limit for formaldehyde.

Note

These precautions are for room temperature handling. Use at elevated temperatures or aerosol/spray applications may require added precautions.

Section 9. Physical and Chemical Properties

Physical State	Paste
Color	Refer to
	product label
Odor	Acetic Acid
Odor Threshold	No data
	available
Solubility	No data
	available
Partition coefficient Water/n-octanol	No data
	available
VOC%	23 g/L
Viscosity	Not
	applicable
Specific Gravity	1.007
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	>212F
	>100C
FP Method	Closed Cup
Ph	Not
	applicable
Melting Point	No data
	available
Boiling Point	Not
	applicable
Boiling Range	Not
	applicable
LEL	N/A
UEL	N/A
Evaporation Rate	Not
,	applicable
Flammability	Not
	classified as
	а
	flammability
	hazard

Decomposition Temperature	No data available
Auto-ignition Temperature	No data available
Vapor Pressure	Not applicable
Vapor Density	No data available

Note

The above information is not intended for use in preparing product specifications. Contact Soudal Accumetric before writing specifications.

Section 10. Stability and Reactivity

Chemical Stability

Stable

Hazardous polymerization

Will not occur

Conditions to Avoid

None known

Materials to Avoid /

Oxidizing material can cause a reaction. Water, moisture or humid air can

Incompatibility

cause hazardous vapors to form as described in Section 8.

Products

Hazardous Decomposition Thermal breakdown of this product during fire or very high heat conditions may

evolve the following hazardous decomposition products:

Carbon oxides and traces of incompletely burned carbon compounds

Formaldehyde Silicon dioxide

Section 11. Toxicological Information

Special Hazard Information No known applicable information. on Components

Section 12. Ecological Information

Fate and Effects in Waste

Complete information is not yet available.

Water Treatment Plants

Environmental Effects Environmental Fate and Complete information is not yet available. Complete information is not yet available.

Distribution

Section 13. Disposal

Waste Disposal Method

We make no guarantee or warranty of any kind that the use or disposal of this product complies with all local, state, or federal laws. It is also the obligation of each user of the product mentioned herein to determine and comply with the requirements of all applicable statutes.

This product is not known to be regulated under RCRA regulations. Disposal of unused portions of this product and process waste containing this product should be done only after a careful evaluation and in compliance with all

federal, local and state laws.

RCRA Hazard Class (40

CFR 261)

When a decision is made to discard this material, as received, is it classified

as a hazardous waste? NO

State or local laws may impose additional regulatory requirements regarding

disposal.

Section 14. Transport Information

UN Number

N/A

UN Proper Shipping Name Not regulated

Ocean Shipment (IMDG)

DOT Classification

Not regulated Not regulated

Packing Group

Not subject to IMDG code.

Air Shipment (IATA)

Not subject to IATA regulations.

Section 15. Regulatory Information

TSCA Status

All chemical substances in this material are included on or exempted from

listing on the TSCA Inventory of Chemical Substances.

SARA Title III Section 302

Extremely Hazardous

Substances

SARA Titre III Section 304

CERCLA Substances

dangereuses

SARA Title III Section

311/312 Hazard Class

Acute: No Chronic: No

None

None

Fire: No Pressure: No Reactive: No

SARA Title III Section 313

Toxic Chemicals

None present or none present in regulated quantities.

Note

Chemicals are listed under the 313 Toxic Chemicals section only if they meet

or exceed a reporting threshold.

California Proposition 65

This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm:

None known

New Jersey

Dimethyl siloxane, hydroxy-terminated (70131-67-8)

Ethyltriacetoxysilane (17689-77-9) Methyltriacetoxysilane (4253-34-3) Silica, amorphous (7631-86-9)

Hydrotreated middle petroleum distillates (64742-46-7)

Pennsylvania

Dimethyl siloxane, hydroxy-terminated (70131-67-8)

Silica, amorphous (7631-86-9)

Hydrotreated middle petroleum distillates (64742-46-7)

Section 16. Other Information

Revision Date

11/9/2015

Disclaimer

The data contained herein is based upon information that Soudal Accumetric believes to be reliable. Users of this product have the responsibility to determine that suitability of use and to adopt all necessary precautions to ensure the safety and protection of property and persons involved in said use. All statements or suggestions are made without warranty, expressed or implied, regarding the accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.



TECHNICAL DATA SHEET

BOSS_® 385 Tub & Tile Plumbers 100% RTV Silicone

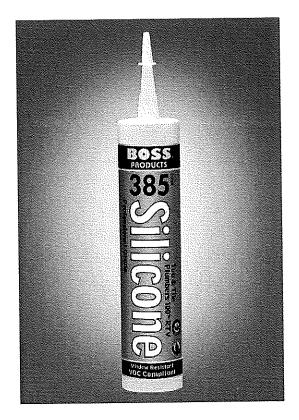
TYPICAL PROPERTIES

Type......One part, ready-to-use silicone rubber Special PropertiesMildew and moisture resistant Benefits Long-life reliability, permanently flexible, good appearance Primary Use..... Sealing nonporous surfaces around ceramic tile, showers, tubs, sinks and plumbing fixtures

As supplied

Color......Clear, white, translucent white, almond Flow, sag or slump NIL Tack-Free Time.....15-20 minutes Cure Time (1/8" thickness)24 hours Service Temperature.....-40°F to 400°F Application Temperature-35°F to 140°F

*Information on this data sheet is subject to change without notice and should not be used for writing specifications. For additional information on specific applications, contact Soudal Accumetric.







DESCRIPTION

BOSS® 385 Tub & Tile Plumbers 100% RTV Silicone is a one-part, fungicidal, silicone rubber sealant designed to seal nonporous surfaces around ceramic tile, showers, tubs, sinks and plumbing fixtures where conditions of high humidity and temperature extremes exist.

BOSS® 385 Tub & Tile Plumbers 100% RTV Silicone:

- · Resists mildew even in prolonged hot and humid environments
- · Resists staining, spotting and color change
- · Remains flexible will not shrink, crack, crumble or dry out
- · Stays bright and clean
- Is ready-to-use as supplied
- · Resists moisture, hot cooking oils and free steam
- Adheres to many nonporous surfaces such as porcelain, painted areas and glass without the use of a primer

USES

BOSS® 385 Tub & Tile Plumbers 100% RTV Silicone is mildew resistant. It is used for such nonporous surface applications as:

- Sealing around shower-tub enclosures, tubs, sinks and around urinals
- Sealing around bathroom fixtures
- Waterproofing rimless sinks
- · Ceramic tile grouting

HOW TO USE

BOSS® 385 Tub & Tile Plumbers 100% RTV Silicone must always be applied to sound, clean, dry, frost-free surfaces.

Tooling is recommended and if possible, should be completed in one continuous stroke. Tool joints within 10 minutes of application. Remove masking tape before a surface skin has formed.

Cleaning the joint surface on both new and old jobs

Bonding surfaces on both new and remedial jobs must be clean, dry and free of dirt, dust and soap film.

Use masking tape where bead lines of exact shapes are required

Use masking tape before applying sealant and remove immediately after a bead is completed and before a skin forms (7 to 15 minutes).

Applying the sealant

BOSS® 385 Tub & Tile Plumbers 100% RTV Silicone can be applied directly from the caulking cartridge with either an air operated or hand operated cartridge gun. Do not break the cartridge seal until just before using.

After applying the sealant and after a skin has formed, do not disturb the joint for 48 hours. A previously opened cartridge may be reused by removing the cured plug of sealant from the tip.

SPECIFICATIONS

BOSS® 385 meets Federal Specifications TT-S-001543A, TT-S-00230C and ASTM C920-86.

CLEAN UP

Uncured sealant can be easily removed using a solvent such as alcohol or acetone. For an environmental and health friendlier choice use BOSS® Biggie Wipes. If the sealant is cured it must be removed mechanically by cutting and scraping.

COLORS

BOSS® 385 Tub & Tile Plumbers 100% RTV Silicone is available in clear, white, translucent white and almond.

PACKAGING

BOSS® 385 Tub & Tile Plumbers 100% RTV Silicone is available in standard caulking cartridges and 4.5 gallon pails. Other sizes available upon request.

SHIPPING LIMITATIONS

None.

Reactive VOC 23 g/l (<3% wt)

LIMITATIONS

BOSS® 385 Tub & Tile Plumbers 100% RTV Silicone is not recommended for continuous water immersion, nor for floor joints where abrasion and physical abuse are encountered. It should not be applied to:

- · Porous surfaces such as masonry
- Building materials that bleed oils or solvents, such as impregnated wood and certain partially vulcanized rubber gaskets, tapes or adhesives
- Totally confined spaces, because the sealant needs atmospheric moisture to cure

STORAGE AND SHELF LIFE

When stored in the original unopened containers at or below 90°F (32°C), BOSS® 385 Tub & Tile Plumbers 100% RTV Silicone has a shelf life of 12 months from date of shipment. In countries where high heat and humidity are a factor, special precautions must be taken. Store product in a covered, well-ventilated warehouse and avoid excessive heat conditions. Storage in high heat, high humidity conditions may reduce shelf life by up to 30%. Rotation of stock is an absolute necessity. Cartons should always be stacked upright with the nozzle tip pointed upwards. DO NOT stack cartons on their side. NEVER stack cartons more than 8 high. DO NOT store within 1 meter (4 feet) of roofline of the warehouse or storage building.

CAUTION

DIRECT CONTACT OF UNCURED SEALANT IRRITATES EYES AND MAY IRRITATE SKIN. OVEREXPOSURE TO VAPOR MAY IRRITATE EYES, NOSE, AND THROAT. Avoid eye and skin contact. Use only outdoors or in a well ventilated area. Do not handle contact lenses with sealant on hands. IN CASE OF EYE CONTACT, flush eyes with water for 15 minutes. Obtain medical attention, IN CASE OF SKIN CONTACT, remove from skin and flush with water. Sealant releases acetic acid (vinegarlike odor) during cure. KEEP OUT OF THE REACH OF CHILDREN. For safe handling information on this product, consult the Safety Data Sheet (SDS).

USERS PLEASE READ

The information and data contained herein is believed to be accurate and reliable; however, it is the user's responsibility to determine suitability of use. Since the supplier cannot know all the uses, or the conditions of use to which these products may be exposed, no warranties concerning the fitness or suitability for a particular use or purpose are made.

It is the user's responsibility to thoroughly test any proposed use of our products and independently conclude satisfactory performance in the application.

Likewise, if the application, product specifications or manner in which our products are used requires government approval or clearance, it is the sole responsibility of the user to obtain sure authorization.

Non-warranty: Because the storage, handling and application of the material is beyond Soudal Accumetric's control. we can accept no liability for the results obtained. Soudal Accumetric's sole limited warranty is the product meets the manufacturing specifications in effect at time of shipment. There is no warranty of merchantability or fitness for use, nor any other express or implied warranty. Soudal Accumetric will not be liable for incidental or consequential damages of any kind. The exclusive remedy for breach of such limited warranty is a refund of purchase price or replacement of any product shown to be other than as warranted.

Suggestions of uses should not be taken as inducements to infringe any patents.

MADE IN U.S.A.

BOSS PRODUCTS

Soudal Accumetric

350 Ring Road / Elizabethtown, KY 42701 USA 800-928-BOSS(2677)

TEL (270)769-3385 / FAX (270)765-2412 Outside U.S.

TEL +1(270)769-3385 / FAX +1(270)765-2412 www.bossproducts.com

Performance Properties of BioPrism®

PROPERTY	TEST	- ARSURT
Tensile Strength	ASTM D 638	4,978 psi
Tensile Modulus	ASTM D 638	1.8 x 10 ⁶ psi
Elongation	ASTM D 638	.45% min.
Flexural Strength	ASTM D 790	7,106 psi
Flexural Modulus	ASTM D 790	1.4 x 10 ⁶ psi
Specific Gravity	ASTM D 792	1.75
Weight per Square Foot		1/4" – 2.2 lbs. 1/2" – 4.4 lbs.
Hardness, Rockwell M	ASTM D 785	86
Hardness, Barcol Impressor	ASTM D 2583	54
Thermal Expansion	ASTM D 696	3.6 x 10 ⁻⁵ in./in./deg. F
Izod Impact, Notched	ASTM D 256A	.33 ft.lb./in.
Impact Resistance, Sheets	NEMA LD-3-3.3 1/2lb. ball	1/4" – 42" drop, No fracture 1/2" – 132" drop, No fracture
Water Absorption, 24hrs.	ASTM D 570	¼" – .038% ½" – .028%
Boiling Water Resistance	NEMA LD-3-3.5	No change
High Temperature Resistance	NEMA LD-3-3.6	No change
Fungus and Bacteria Resistance	ASTM G 21 and G 22	No support of growth
Color Stability	NEMA LD-3-3.10	No change
Gloss Level, 60° Gardner	ANSI Z124	3-30 (matte to semi-gloss)
Wear and Cleanability	ANSI Z124	Pass
Stain Resistance, Sheets	ANSI Z124	Pass
Sanitation	NSF 51	Pass
Flammability – Surface Burning Characteristics	ASTM E 84, UL723, NFPA 255 Flame Spread(FS) Smoke Developed(SD)	1/4" - FS = 5 & SD = 130, Class A 1/2" - FS = 0 & SD = 50, Class A

Note: BioPrism® Solid Surface products meet or exceed ANSI Z124/CSA B45.5-11(Plastic Plumbing Fixtures), as well as, ANSI/ICPA SS-1 (Performance Standard for Solid Surface Materials).

IPC.1260/REV



BioPrism® Solid Surface Warranty

Limited Warranty

Inpro® Corporation (Inpro®) warrants to the purchasers that all BioPrism® Solid Surface sold by it will be free of manufacturing and material defects. Failure to use qualified fabricators, proper fasteners, adhesives, other finishing or maintenance accessories and/or other installation methods consistent with Inpro® installation instructions shall relieve Inpro® of any liability. Physical abuse, misuse, neglect, abnormal usage, movement from original location, structural movement, excessive temperature damage or breakage not due to a defect in the material is not covered by the warranty. The warranty does not apply to damage to the product caused while in transit nor does it cover slight imperfections, warping or shade variations in products. The warranty excludes color variation from sample to final product. The warranty does not cover exterior usage of this product or exposure to exterior elements. Any defective product will be replaced free of charge if a claim, proof of purchase, photo of area and original location is presented in writing to Inpro® within TEN (10) YEARS following the date of sale. Inpro® will not be responsible for any removal or installation costs involved in such replacement. Replacement will include shipment costs within the United States. The obligation to the warranty allows Inpro® the right to use colors, shapes and sizes that are available at the time of the replacement as the replacement. This warranty is IN LIEU OF any other warranty, express or implied, including, but not limited to, any implied warranty of MERCHANTABILITY or fitness for a particular purpose. Our liability under this warranty is limited to replacement of product and does not include any responsibility for incidental, consequential, indirect, special, punitive or exemplary damages of any nature, whether or not based in warranty, contract, indemnity, tort (including negligence) or any other theory or law or equity. This warranty gives you specific rights and you may have other rights which vary from state to state. Some states do not allow limitations of implied warranties or consequential damages, so these limitations may not apply to you. This warranty is non-transferable.

inpro.

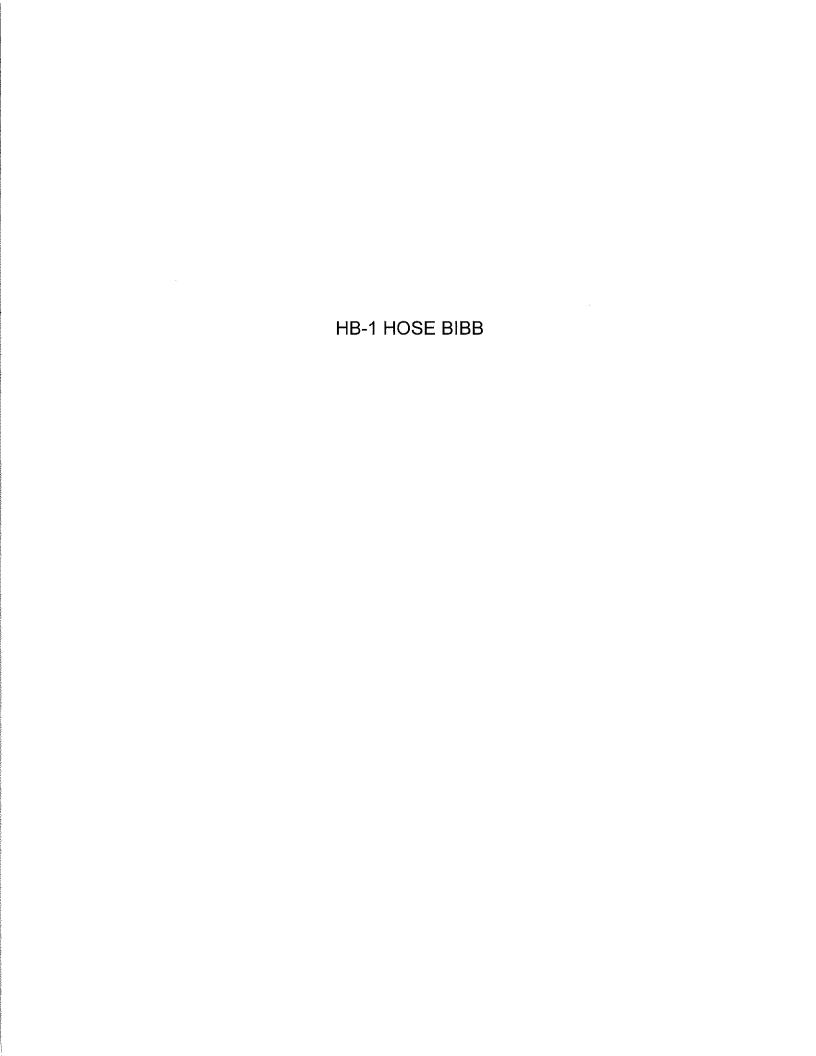
S80 W18766 Apollo Drive • PO Box 406 • Muskego, WI 53150 USA • Inprocorp.com FOR CUSTOMER SERVICE CALL TOLL FREE: 800.222.5556 FAX: 888.715.8407

IMPORTANT: Our products, like others in this industry, are subject to damage during shipping. As soon as the recipient has accepted the products in good condition, inpro® Corporation responsibility ceases. Freight carriers will not honor a claim for concealed damage if the waybill is authorized clear. It is important to inspect the contents of each carton immediately as it comes off the carrier. If this is not possible, then inspect the carton carefully for dents, abrasions, signs of impact or markings. If the carton appears damaged, sign the waybill with the following notation: Cartons have exterior markings, possible concealed damage.

Inspect contents soon. You must file a claim with the carrier within 15 days of your receipt of product if damage within the carton is found.

The composition of BioPrism® Solid Surface produces slight color variation between production cycles due to the innate and complex blending of natural minerals and man-made resin.

IPC.703/REV.10



The Model 24 and B24 are anti-siphon, vacuum breaker protected wall faucets designed for irrigation purposes in mild climate areas. The Model B24 is enclosed in a flush mounted wall box. Both models are designed to blend with modern architecture for installation on or in homes, service stations, churches, motels, drivein restaurants, etc. The Model Y24 is designed to be used on a stand pipe in the lawn and garden, etc.

• NIDEL® Model 34HF with 3/4 inch male hose thread

VACUUM BREAKER - ANTI-SIPHON:

ASSE Standard 1011 approved

· Canadian Standards Association

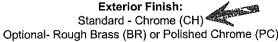
EPDM PACKING: Prevents leaking.

Anti-Siphon Wall Faucets



Model 24/B24/Y24

Standard - Chrome (CH)



Exterior Finish:

MODEL 24

Optional- Rough Brass (BR) or Polished Chrome (PC)



HANDLES: Furnished with polycarbonate wheel handle

and loose tee key. Optional: Metal wheel handle.

INLETS: Model 24 as shown below.

Model B24: 24P- 1/2 or 24P 3/4 only.

PACKING NUT: Adjustable brass nut with deep stem

Model Y24: 3/4 " FPT.

VALVE SEAT: Standard "O" size washer.

MAX PRESSURE: 125 p.s.i. MAX TEMPERATURE: 120° F SHIPPING WEIGHT: (per unit)

MODEL 24 & Y24: 1 lb

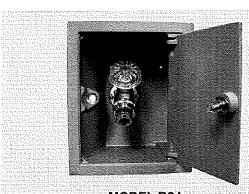
SPECIFICATIONS:

IAPMO® listed

guard.

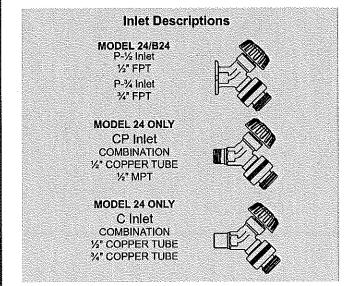
MODEL B24: 13 lbs (brass or chrome box)

6 lbs (aluminum box)



MODEL B24

Exterior Finish: Standard - Chrome (CH) Optional-Rough Brass (BR) or Polished Brass (PB) Other Options: Anodized Aluminum Box (AL)

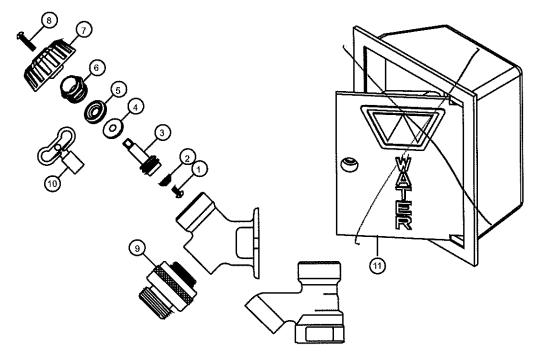


MODEL Y24

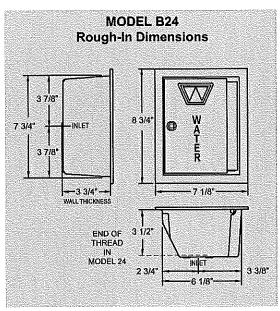
Exterior Finish: Standard - Chrome (CH) Optional- Rough Brass (BR) or Polished Chrome (PC)

For Installation / Troubleshooting Instructions go to www.woodfordmfg.com or call 1-800-621-6032





N	IODEL 24	I/B24/Y24 PARTS LIST
ITEM	PART#	DESCRIPTION
1	30009	Washer Screw
2	30008	Washer
3	30104	Operating Stem
4	30105	Packing Support Washer
5	30247	EPDM Packing
6	30109	Packing Nut - Chrome
	30107	Packing Nut - Brass
7	30120	Wheel Handle - Clear
us a sa	30233	Wheel Handle - Tan
8	30121	Handle Screw - Nickel
	30002	Handle Screw - Brass
9	34HF-CH	34HF Vacuum Breaker - Chrome
	34HF-BR	34HF Vacuum Breaker - Brass
10	50009	Tee Key
11	B24BX	Box/Door Assembly - Chrome
eressensensesvense	B24BX-BR	Box/Door Assembly - Brass
	B24BX-PB	Box/Door Assembly - Polished Brass
************	B24BX-AL	Box/Door Assembly - Anodized Aluminum
	RK-24	Chrome Repair Kit (Includes Items 1-8)
	RK-H34	Brass Repair Kit (Includes items 1-8)



Manufactured under one or more of the following patents: U.S. Patents: 3,414,001; 3,543,786; 4,178,956; 4,316,481; D216,790; D216,791; D277,365; D277,366; Canada Patents: 822,458; 852,529; 865,995

For more information contact...

WOODFORD MANUFACTURING COMPANY

2121 Waynoka Road, Colorado Springs, Colorado 80915 • Phone: (800) 621-6032 • Fax: (800) 765-4115
To view our complete product line visit: www.woodfordmfg.com or email: sales@woodfordmfg.com

A Division Of WCM Industries, Inc.



201 S Chester Little Rock, AR 72201 501.237.3077

Submittal Comment Sheet

Project Name: Renovate 3H Bed Stations

Submittal: 19-029 001 Plumbing Fixtures

Date Received: 03-01-2022 Date Returned:03-05-2022 Reviewed By: Kim Koch

Comments:

- 1. SS-1
 - a. Approved
- 2. SS-2
 - a. Approved
- 3. LAV-1
 - a. Approved
- 4. LAV-2
 - a. Approved
- 5. LAV-3
 - a. Approved
- 6. WC-1
 - a. Approved
- 7. S-1
 - a. Approved
- 8. S-2
 - a. Approved
- 9. SH-1
 - a. Approved
- 10. WB-1
 - a. Approved
- 11. WCO
 - a. Approved
- 12. FD-1
 - a. Approved
- 13. HB-1
 - a. Approved



14. Water Hammer Arrestors

a. Approved

End of Comments

THE CONSULTANTS OF RECORD FOR THIS PROJECT HAVE REVIEWED THESE SHOP DRAWINGS. THE CONSULTANTS' COMMENTS AND REVIEW STAMP ARE APPLICABLE FOR THEIR PORTION OF THE WORK. THE REVIEW AND CHECKING OF THE REFERENCED SUBMITTED DOCUMENTS IS FOR GENERAL CONFORMANCE WITH THE DESIGN INTENT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. ANY ACTION SHOWN IS SUBJECT TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. REVIEW IS NOT CONDUCTED FOR THE PURPOSE OF DETERMINING THE ACCURACY AND COMPLETENESS OF OTHER DETAILS, SUCH AS DIMENSIONS AND QUANTITIES, FOR SUBSTANTIATING INSTRUCTIONS FOR INSTALLATION OR PERFORMANCE OF EQUIPMENT OR SYSTEMS, OR FOR COORDINATION OF THE WORK OF ALL TRADES, ALL OF WHICH REMAIN THE RESPONSIBILITY OF THE CONTRACTOR AS REQUIRED BY THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR ALL QUANTITIES.

EJ TOWBIN HEALTHCARE CENTER 3H RENOVATION NORTH LITTLE ROCK, ARKANSAS

SS-1 SERVICE SINK
ELKAY FLR-1X SERVICE SINK
T&S B-0665-BSTP-BWH6 FAUCET
T&S B-0653 MOP HANGER
T&S B-0654 HOOK AND HOSE

PRODUCT SPECIFICATIONS

Elkay Stainless Steel 24" x 20" x 11-1/4" 16 Gauge Mop Sink. Sink is manufactured from 16 gauge 304 Stainless Steel with a #4 Finish, Center drain placement.

Material:	304 Stainless Steel
Finish:	#4 Finish
Gauge:	16
Weight Without Packaging:	28
Number of Bowls:	1
Sink Dimensions:	24" x 20" x 11-1/4"
Bowl 1 Dimensions:	20" x 16" x 6"
Drain Size:	3-1/2" (89mm)
Drain Location:	Center



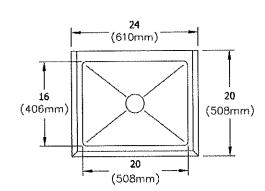
Included with Product: Stainless Steel Skirt, 2" Brass No-Caulk Drain

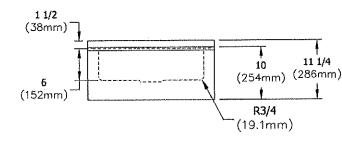
AMERICAN PRIDE. A LIFETIME TRADITION. Like your family, the Elkay family has values and traditions that endure. For almost a century, Elkay has been a family-owned and operated company, providing thousands of jobs that support our families and communities.

ASME A112.19.3/CSA B45.4 **Product Compliance:**

NSF 2

ASME A112.18.2/CSA B125.2 Accessory:





PART: 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.

TES

T&S BRASS AND BRONZE WORKS, INC.

2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690 Model No.

B-0665-BSTP

Item No.

NSF 61 - Section 9

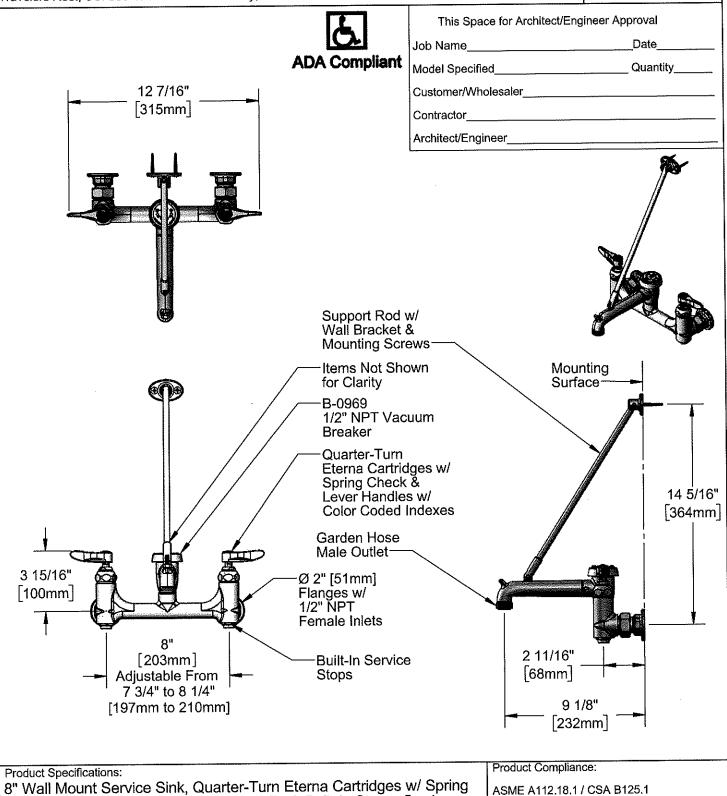
Scale:

NSF 372 (Low Lead Content) ANSI A117.1 (ADA) ASSE 1001 (VB)

1:4

Sheet: 1 of 2

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



JHB

Date:

11/19/19

Checks, Lever Handles, Upper Support Rod, Built-In Stops, Garden

JRM

Checked:

& 1/2" NPT Female Inlets

KJG

Drawn:

Hose Male Outlet, Polished Chrome Finish, 1/2" NPT Vacuum Breaker

Approved:

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

Model No.

B-WH6

Item No.

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

This Space for Arci	nitect/Engineer Approval					
Job Name	Date	<u> </u>				
Model Specified	Quantit	у				
Customer/Wholesaler_						
Contractor						
Architect/Engineer	-HHIDAN WARAN					
	6" Wrist Handle					
	6" [152mm]			2 7/16" [61mm]		3/4" [18mm]
Product Specifications 6" Wrist Action Har	: ndle (Polished Chrome)			Product Compl	Ø7/8" [22mm]
Drawn: JBC	Checked: JRM	Approved: JHB	Date:	06/23/17	Scale:	2:3 Sheet: 1 of 1

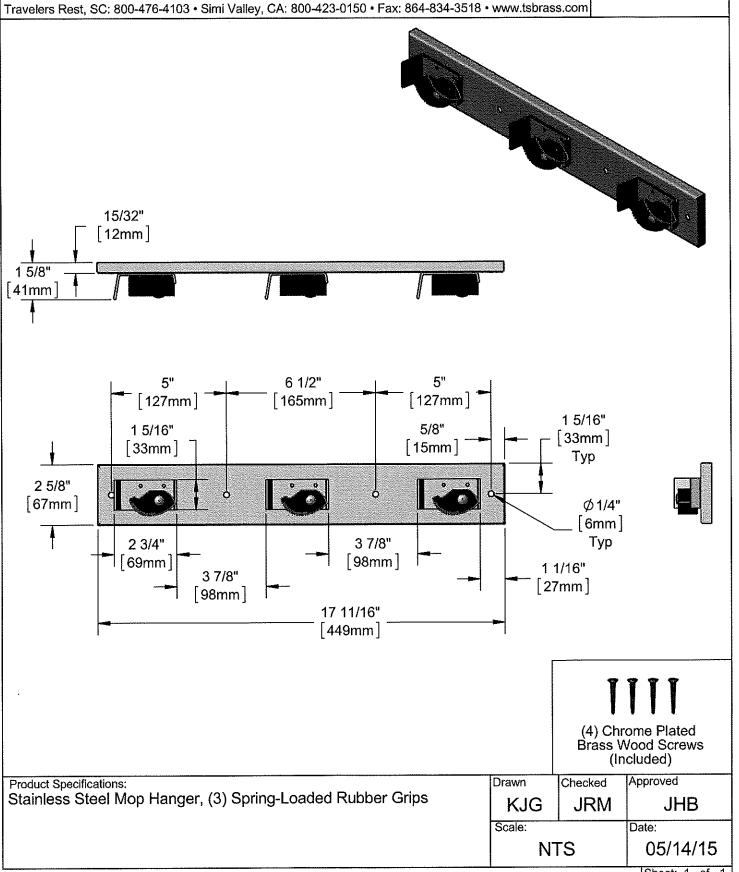
T&S BRASS AND BRONZE WORKS, INC.

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

Model No.

B-0653

Item No.



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

Model No.

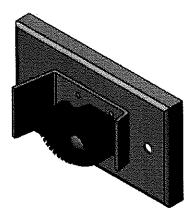
B-0654

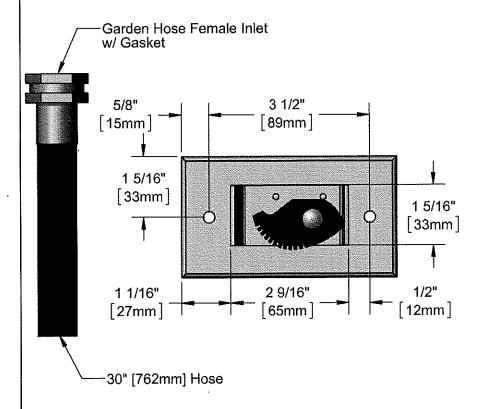
Item No.

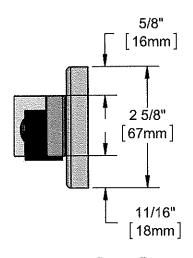
Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com

1/2" [12mm]	4 11/16" [119mm]

This Space for Architect/Engineer Approval Date Job Name_ Quantity Model Specified_ Customer/Wholesaler_ Contractor Architect/Engineer_







(2) Chrome Plated Brass Wood Screws (Included)

Product Specifications:

Stainless Steel Hose Hanger w/ Spring-Loaded Rubber Grip, and 30" Hose w/

Female Garden Hose Inlet

Product Compliance:

Sheet: 1 of KJG Checked: DHL Approved: JHB Date: 06/23/15 Scale: Drawn:



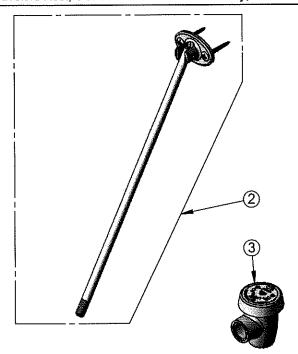
T&S BRASS AND BRONZE WORKS, INC.

2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690 Model No.

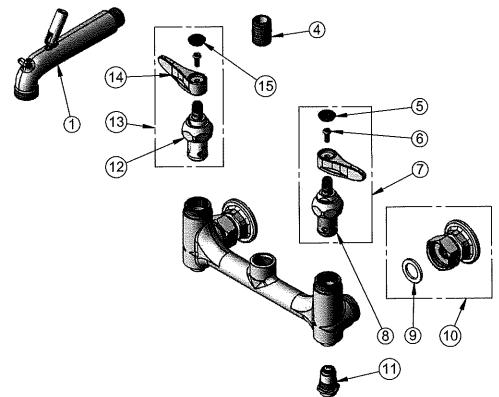
B-0665-BSTP

Item No.

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



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



Product Specifications:

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

Product Compliance:

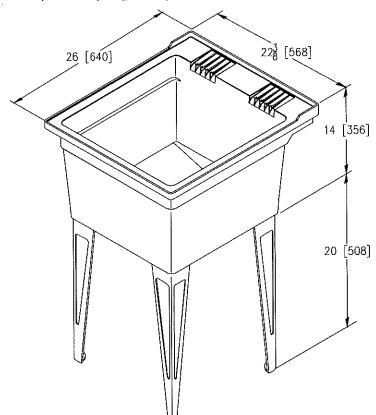
ASME A112.18.1 / CSA B125.1 NSF 61 - Section 9 NSF 372 (Low Lead Content) ANSI A117.1 (ADA) ASSE 1001 (VB)

Drawn: KJG Checked: JRM Approved: JHB Date: 11/19/19 Scale: NTS Sheet: 2 of 2

SS-2 SERVICE SINK
ZURN MS2620-F SERVICE SINK
WITH FAUCET AND DRAIN
Z8802XL-LRLK-PC SUPPLY AND STOP
Z8702PC-BX 1-1/2" CAST BRASS P-TRAP

TAG	

Dimensional Data (inches and [mm]) are Subject to Manufacturing Tolerances and Change Without Notice



Model Number	Description
MS2620-F	Floor Mounted Multi-Purpose Sink
MS2620-W	Wall Mounted Multi-Purpose Sink*

Engineering Specification: MS2620

Single compartment, multi-purpose sink manufactured from an innovative foam process. The polypropylene structural composite sink utilizes this unique molding process, producing seamless corners and edges while providing unrivaled strength. Floor mounted units are equipped with coated steel, self-leveling legs.

OPTIONS (Check/specify appropriate options)

SUFFIXES

-AP Accessory Package
-DF1 Dual Handle Deck Faucet
-FA Top Supplied Adapter Faucet
-FP Filler Panel
-PF Pull-out Lead Free Faucet (JP2620-PF-XL)
-PL Polyethylene Legs
-TS Top Supplied Faucet



OPTIONAL COLORS (Gray-Standard)

____ -AW Appliance White

Zurn Industries, LLC | Specification Drainage Operation 1801 Pittsburgh Avenue, Erie, PA U.S.A. 16502 · Ph. 855-663-9876, Fax 814-454-7929

In Canada | Zurn Industries Limited 3544 Nashua Drive, Mississauga, Ontario L4V 1L2 · Ph. 905-405-8272, Fax 905-405-1292

www.zurn.com

Rev. H

Date: 10/08/14 C.N. No. 131739

Prod. | Dwg. No. MS2620

^{*}Wall-mounting brackets with hardware and filler panels included.





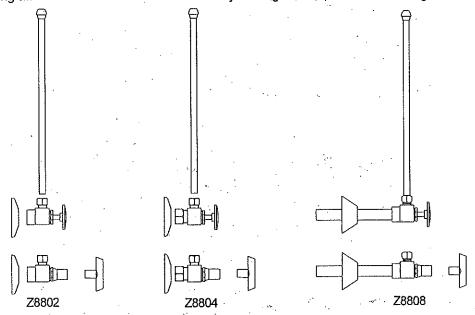
STANDARD STOP WITH FLEXIBLE LAVATORY SUPPLY

Z8802-XL-LR-PC TO Z8808-XL-LRLK-PC

TAG

Engineering Specification: Zurn Z8802-XL-LR-PC TO Z8808-XL-LRLK-PC Two Zurn chrome plated, solid brass angle stops with round wheel handles or loose key as specified, two 12"[305mm] flexible chrome plated copper lavatory risers complete with two chrome plated steel flanges. Z8808-XL-LR-PC and Z8808-XL-LRLK-PC include 5"[127mm] chrome plated copper extension tubes and deep bell steel flanges.

Zurn Lead Compliant* "XL" products are a line of durable, high quality brass faucets and fixtures that are designed and manufactured to comply with state laws and local codes that mandate lead content levels: Zurn "XL" products are manufactured with *not more than 0.25% lead content when used with respect to wetted surfaces of pipes and pipe fittings, plumbing fitting and fixtures: California Health & Safety Code § 116875; Vermont 9 VCA § 2470h.



	PRODUCT		(MA)	MASTER	WEIGHT	CARTON
	NUMBER	CONNECTIONS	EXT.	CARTON	LR	LRLK
ı	Z8802-XL-LR-PC	1/2 [13] IPS x 3/8 [10]OD	_	25	24	
'n	Z8802-XL-LRLK-PC	1/2 [13] IPS x 3/8 [10] OD		25		25
	Z8804-XL-LR-PC	1/2 [13] NOM x 3/8 [10] OD	-	25	24	
	Z8804-XL-LRLK-PC	1/2 [13] NOM x 3/8 [10] OD	-	25		25
	Z8808-XL-LR-PC	1/2 [13] SWT x 3/8 [10] OD	5	25	28	
	Z8808-XL-LRLK-PC	1/2 [13] SWT x 3/8 [10] OD	5	25		33

SUFFIXES

 - A	Single supply option	
- C1	Standard Line Lock Shield Cap	
 -CE	Chrome Plated, Cast Brass, Flange with setscrev	٧
 - D	Chrome Plated Steel, Deep Bell Flange (Bell Type	.)
- WD	Wrought Brass, Deep Flange, (Bell Type)	
- XP	Cross Handle	
- 15	15[381] Supply Tube	
 - 20	20[508] Supply Tube	
- 30	30[762] Supply Tube	
 20	20104 (1 Cumply Tubo *BE	\sim 1

REGULARLYFURNISHEDUNLESSOTHERWISESPECIFIED

ZURN INDUSTRIES, LLC + COMMERCIAL BRASS OPERATION + 2640 SOUTH WORK STREET + FALCONER NY 14733
Phone: 1-800-997-3876 + Fax: 1-919-775-3541 + www.zurn.com

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

Date: 5/4/11



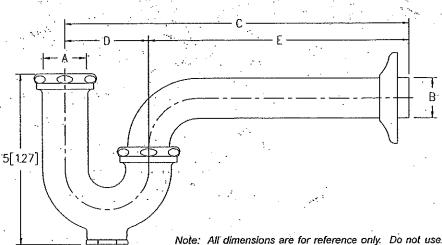
SEMI-CAST P-TRAPS WITH WALL BEND

Z8700-PC TO Z8708-PC

TAG



Engineering Specification: Zurn Z8700-PC to Z8708-PC. - Chrome-plated cast brass (copper alloy) body P-trap with cleanout, tubular brass wall bend as specified, die-cast nuts, and shallow escutcheon with compression inlet.



Note:	All' dimensions	are for	reference or	nly. i	Do not use, fo	or pre-plumbing.

		•						
PRODUCT	Α , ,	В :			IMENSION	ļS ·	MASTER	
NUMBER	INLET in[mm]	OUTLET in[mm]	GAUGE	C in[mm]	D in[mm]	E in[mm]	CARTON	CARTON [lbs]
Z8700-PC	1 1/4[32]	1 1/4[32]	17	10[254]	2 1/2[64]	7 1/2[191]	12	24
Z8700-8-PC	1 1/4[32]	1 1/4[32]	17.	11[279]	2 1/2[64]	8 1/2[216]	12	24
Z8700-15-PC	1 1/4[32]	1 1/4[32]	17	15[381]	2 1/2[64]	12.1/2[318	18	40
Z8701-PC	1 1/4[32]	1 1/2[38]	- 17	10 1/2[267]	3[76]	7 1/2[191]	12	· 24
Z8701-9-PC	1 1/4[32]	1 1/2[38]	17	12[305]	3[76]	9[229]	12	· 24
Z8701-15-PC	1 1/4[32]	1 1/2[38]	17	15[381]	3[76]	12[305]	18	42
Z8702-PC*	1.1/2[38]	1 1/2[38]	~ 17	10 1/2[267]	3[76]	7 1/2[191]	12	24
Z8702-9-PC*	1 1/2[38]	1 1/2[38]	17	12[305]	3[76]	9[229]	12.	24
Z8702-15-PC*	1 1/2[38]	1 1/2[38]	17	15[381]	3[76]	12[305]	18	42
.Z8703B-PC**	1 1/2[38]	2[51]	17	12 1/2[318]	3 1/2[89]	9[229]	6	18
Z8704B-PC**	2[51]	2[51]	17	12 1/2[318]	3 1/2[89]	9[229]	6 -	18
Z8706-PC	1 1/4[32]	1 1/4[32]	20	10[254]	2 1/2[64]	7 1/2[191]	12	24
Z8707-PC	1 1/4[32]	1 1/2[38]	20	10 1/2[267]	3[76]	7 1/2[191]	12	24
Z8708-PC*	1 1/2[38]	1 1/2[38]	20	10 1/2[267]	3[76]	7 1/2[191]	12	24 ·

OPTIONAL ACCESSORIES

Suffix Description **Brass Nuts** -B Box Escutcheon Cast Brass Escutcheon with Setscrew -CE Deep Escutcheon (Note = not available for Z8703B-PC and Z8704B-PC) -D Metal to Metal Ground Joint Connection Waste Connections - Compression 15[381] C Dim. 1 1/4[32] and 1 1/2[38] Only 18[457] C Dim. 1 1/4[32] and 1 1/2[38] Only

* COMES WITH OPTIONAL 1-1/2" x 1-1/4" REDUCTION POLY-WASHER FOR INLET

** SHIPPED WITH BRASS NUTS UNLESS OTHERWISE SPECIFIED

ZURN INDUSTRIES, LLC + COMMERCIAL BRASS OPERATION + 2640 SOUTH WORK STREET + FALCONER NY 14733 Phone: 1-800-997-3876 + Fax: 1-919-775-3541 + www.zurn.com

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

LAV-1 LAVATORY
CHICAGO 420-T45E2805ABCP FAUCET
Z8743PC GRID STRAINER
Z8802XL-LRLK-PC SUPPLY AND STOP
Z8700PC-BX 1-1/4" CAST BRASS P-TRAP

Manual Sink Faucets 420-T45E2805ABCP



Product Type

Deck-mounted manual sink faucet with 4" centers

Features & Specifications

- 4" fixed centers
- Vandal Proof Pressure compensating Econo-Flo™ non-aerating laminar spray 0.5 GPM
- Vandai Proof 4-1/4" lever handle
- Thermostatic ceramic cartridge with built-in check valve and scald protection
- ECAST® design provides durable cast brass construction with total lead content equal to or less than 0.25% by weighted average

Performance Specification

- Rated Operating Pressure: 20-125 PSI
- Rated Operating Temperature: Hot inlet temperature: 100°F-180°F (38°C-82°C); Maximum Temperature Out: 113°F (45°C); minimum approved flow rate for temp limiting: 0.35 GPM

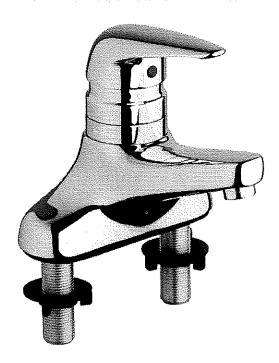
Warranty

- 1-Year Limited Cartridge Warranty
- 5-Year Limited Faucet Warranty
- 1-Year Limited Finish Warranty

Codes & Standards

- ASME A112.18.1/CSA B125.1
- ADA ANSI/ICC A117.1
- Certified per ASSE 1070 / ASME A112.1070 / CSA B125.70
- S NSF/ANSI 372 Low Lead Content
- NSF/ANSI 61, Section 9
- Gertified to WaterSense by ICC-ES

Job Name	
tem Number	
Section/Tag	
Model Specified	
Architect	
Engineer	
Contractor	
] Submitted as Shown [] Submitted with Variations	
Date	



ECAST

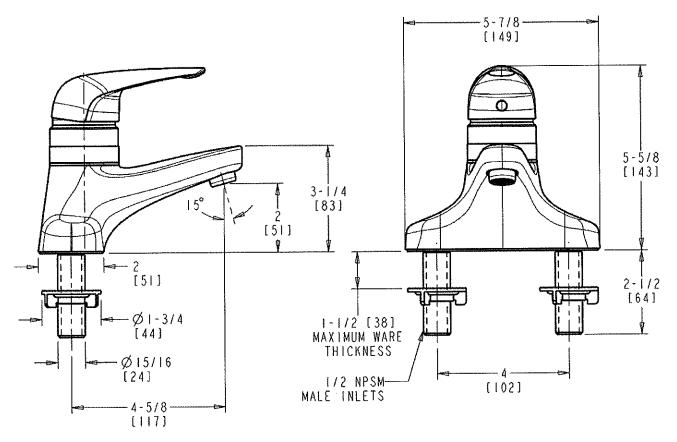
ECAST products are intended for installation where state laws and local codes mandate lead content levels or in any location where lead content is a concern.

420-T45E2805ABCP



Architect/Engineer Specification

Chicago Faucets No. 420-T45E2805ABCP, Sink Faucet for hot and cold water, single lever, deck-mounted with 4" fixed centers, chrome plated. Rigid, cast brass spout, 4-5/8" center-to-center. 0.5 GPM (1.9 L/min) vandal-proof, pressure compensating, non-aerating, laminar spray outlet. Ceramic mixing cartridge, includes thermostatic scald protection. Cartridge includes Integral inlet check valves to protect against cross-flow, 1/2" NPSM supply inlets for 3/8" or 1/2" flexible riser. ECAST® construction with less than 0.25% lead content by weighted average. This product meets ADA ANSI/ICC A117.1 requirements and is tested and certified to industry standards: ASME A112.18.1/CSA B125.1, ASSE 1070/ASME A112.1070/CSA B125.70, Certified to NSF/ANSI 61, Section 9, California Health and Safety Code 116875 (AB1953-2006), Vermont Bill S.152, and NSF/ANSI 372 Low Lead Content.



Operation and Maintenance

Installation should be in accordance with local plumbing codes. Flush all pipes thoroughly before installation. After installation, remove spout outlet or flow control and flush faucet thoroughly to clear any debris. Care should be taken when cleaning the product. Do not use abrasive cleaners, chemicals or solvents as they can result in surface damage. Use mild soap and warm water for cleaning and protecting the life of Chicago Faucet products. For specific operation and maintenance refer to the installation instructions and repair parts documents that are located at www.chicagofaucets.com.

Chicago Faucets, member of the Geberit Group, is the leading brand of commercial faucets and fittings in the United States, offering a complete range of products for schools, laboratories, hospitals, office buildings, food service, airports and sport facilities. Call 1.800.TECTRUE or 1.847.803.5000 Option 1 for installation or other technical assistance.



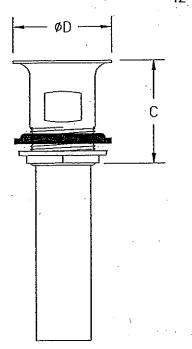


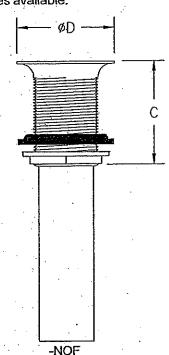
SOLID TOP, OPEN-GRID P.O. PLUGS

Z8743-PC

TAG			

Engineering Specification: Zum Z8743-PC - Chrome plated cast brass solid top, open grid, P.O. plug. Furnished with 5"[127mm] long, chrome plated brass 17 gauge tailpiece and chrome plated cast brass locknut for sink depth up to 2 1/4"[57mm]. 6"-, 8"-, and 12"- tailpieces available.





Note: All dimensions are for reference only. Do not use for pre-plumbing

	PRODUCT	TAILPIECE	DIMENSIONS	MASTER	WEIGHT
	NUMBER	in[mm]	Cin[mm] ØDin[mm]	CARTON	CARTON
Mary and	≥ 8743-PC	1 1/4[32]	2 9/16[65] 2 1/4[57]	50	50
	Z8743-1-PC	1 1/2[38]	2 9/16[65] 2 1/4[57]	30	30

OPTIONAL ACCESSORIES

Suffix		Description
	-NOF	No Overflow
· . ————	-6	w/6"[152mm] Tailpiece
	-8	w/8"[203mm]Tailpiece
	-12	w/12"[305mm] Tailpiece

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15-64-542 138-55





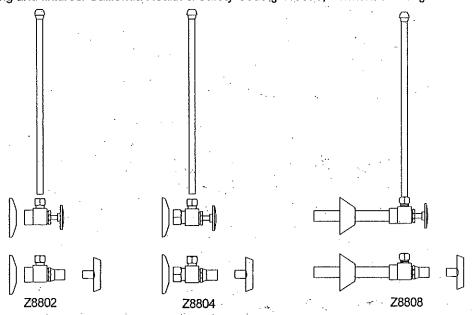
STANDARD STOP WITH FLEXIBLE LAVATORY SUPPLY

Z8802-XL-LR-PC TO Z8808-XL-LRLK-PC

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Engineering Specification: Zurn Z8802-XL-LR-PC TO Z8808-XL-LRLK-PC Two Zurn chrome plated, solid brass angle stops with round wheel handles or loose key as specified, two 12"[305mm] flexible chrome plated copper lavatory risers complete with two chrome plated steel flanges. Z8808-XL-LR-PC and Z8808-XL-LRLK-PC include 5"[127mm] chrome plated copper extension tubes and deep bell steel flanges.

Zurn Lead Compliant* "XL" products are a line of durable, high quality brass faucets and fixtures that are designed and manufactured to comply with state laws and local codes that mandate lead content levels: Zurn "XL" products are manufactured with *not more than 0.25% lead content when used with respect to wetted surfaces of pipes and pipe fittings, plumbing fitting and fixtures: California Health & Safety Code § 116875; Vermont 9 VCA § 2470h.



- 1	PRODUCT	Take 1	184	MASTER	WEIGHT	CARTON
	NUMBER	CONNECTIONS	EXT.	CARTON	LR	LRLK
	Z8802-XL-LR-PC	1/2 [13] IPS x 3/8 [10]OD	-	25	24	
	Z8802-XL-LRLK-PC	1/2 [13] IPS x 3/8 [10] OD	_	25		25
	Z8804-XL-LR-PC	1/2 [13] NOM x 3/8 [10] OD	-	25	24	*
	Z8804-XL-LRLK-PC	1/2 [13] NOM x 3/8 [10] OD	-	25		25
	Z8808-XL-LR-PC	1/2 [13] SWT x 3/8 [10] OD	5	25	28	
	Z8808-XL-LRLK-PC	1/2 [13] SWT x 3/8 [10] OD	5	25	-	33

SUFFIXES

- A	Single supply option	
-C1	Standard Line Lock Shield Cap	
- CE	Chrome Plated, Cast Brass, Flange with setscre	w
- D	Chrome Plated Steel, Deep Bell Flange (Bell Typ	e)
 - WD	Wrought Brass, Deep Flange, (Bell Type)	
- XP	Cross Handle	
- 15	15[381] Supply Tube	
 - 20	20[508] Supply Tube	
 - 30	30[762] Supply Tube	
 - 36	36[914] Supply Tube *RI	EGI

*REGULARLYFURNISHEDUNLESSOTHERWISESPECIFIED

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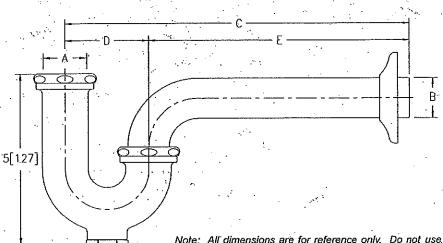
SEMI-CAST P-TRAPS WITH WALL BEND

Z8700-PC TO Z8708-PC

TAG



Engineering Specification: Zurn Z8700-PC to Z8708-PC. - Chrome-plated cast brass (copper alloy) body P-trap with cleanout, tubular brass wall bend as specified, die-cast nuts, and shallow escutcheon with compression inlet.



Note:	All dimensions	are for reference	e only. Do	not use for	pre-plumbing.
			~		

		•							
	PRODUCT	Α ,	В			<u>imensión</u>		MASTER	
	NUMBER	INLET in[mm]	OUTLET in[mm].	GAUGE	· C in[mm]	D in[mm]	E in[mm]	CARTON	CARTON [lbs]
4	> Z8700-PC	1 1/4[32]	1 1/4[32]	17	10[254]	2 1/2[64]	7 1/2[191]	12	24
	Z8700-8-PC	1 1/4[32]	1 1/4[32]	17	11[279]	2 1/2[64]	8 1/2[216]	12	24
	Z8700-15-PC	1 1/4[32]	1 1/4[32]	17	15[381]	2 1/2[64]	12.1/2[318]	18	40
	Z8701-PC	1 1/4[32]	1 1/2[38]	17	10 1/2[267]	3[76]	7 1/2[191]	12	24
1	Z8701-9-PC	1 1/4[32]	1 1/2[38]	17	12[305]	3[76]	9[229]	12	· 24
•	Z8701-15-PC	1 1/4[32]	1 1/2[38]	17	15[381]	3[76]	12[305]	18	42
	Z8702-PC*	1.1/2[38]	1 1/2[38]	17	. 10 1/2[267]	3[76]	7 1/2[191]	12	24
	Z8702-9-PC*	1 1/2[38]	1 1/2[38]	··· 17 ·	12[305]	3[76]	9[229]	12.	24
	Z8702-15-PC*	1 1/2[38]	1 1/2[38]	17	15[381]	3[76]	12[305]	18	42
	Z8703B-PC**	1 1/2[38]	2[51]	17 .	12 1/2[318]	3 1/2[89]	9[229]	6	18
	Z8704B-PC**	2[51]	2[51]	17.	12 1/2[318]	3 1/2[89]	9[229]	6	18
'	Z8706-PC	1 1/4[32]	1 1/4[32]	20	10[254]	2 1/2[64]	7 1/2[191]	12	24
	Z8707-PC	1 1/4[32]	1 1/2[38]	-20	10 1/2[267]	3[76]	7 1/2[191]	12	24
	Z8708-PC*	1 1/2[38]	1 1/2[38]	20	10 1/2[267]	3[76]	7 1/2[191]	12	24

OPTIONAL ACCESSORIES

Suffix		Description
•	-B	Brass Nuts
	►BX	Box Escutcheon
	-CE	Cast Brass Escutcheon with Setscrew
	-D	Deep Escutcheon (Note = not available for Z8703B-PC and Z8704B-PC)
	-J	Metal to Metal Ground Joint Connection
	-WC	Waste Connections - Compression
	-15	15[381] C Dim. 1 1/4[32] and 1 1/2[38] Only
	-18	18[457] C Dim. 1 1/4[32] and 1 1/2[38] Only
* COME!	SWITH	OPTIONAL 1-1/2" x 1-1/4" REDUCTION POLY-WASHER FOR INLET

** SHIPPED WITH BRASS NUTS UNLESS OTHERWISE SPECIFIED

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LAV-2 LAVATORY
AM. STANDARD 0475.047 OVAL LAVATORY
ZURN Z6953-XL-CV-CWB-HW6 HARDWIRED SENSOR FAUCET
LEONARD 170A-LF THERMOSTATIC MIXING VALVE
Z8743PC GRID STRAINER
Z8802XL-LRLK-PC SUPPLY AND STOP
Z8700PC-BX 1-1/4" CAST BRASS P-TRAP



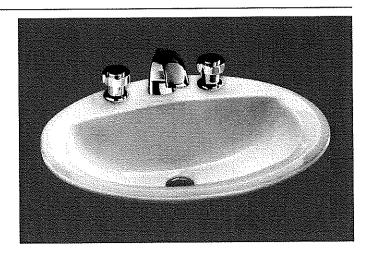
AQUALYN® DROP IN SINK

VITREOUS CHINA

AQUALYN® DROP IN SINK

- · Made from vitreous china
- · Self-rimming with cutout template supplied
- · Front overflow
- Faucet ledge
- ☐ 0475.020 Faucet holes on 8" (203mm) centers (illustrated)
- ☐ 0475.920 Same as 0475.020 less overflow
- □ 0476.028 Faucet holes on 4" (102mm) centers
- ☐ 0476.928 Same as 0476.028 less overflow
- □ 0476.037 Same as 0476.028 with extra right-hand hole for soap dispenser
- □ 0475.035 Same as 0476.028 with extra lefthand hole for soap dispenser





SEE FOLLOWING PAGES FOR ROUGHING-IN DIMENSIONS

Nominal Dimensions:

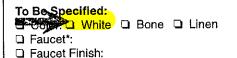
20-3/8" x 17-3/8" (518 x 441mm)

Bowl sizes:

16" (406mm) wide 10" (254mm) front to back 5-5/8" (143mm) deep

Compliance Certifications - Meets or Exceeds the Following Specifications:

 ASME A112.19.2M for Vitreous China Fixtures



□ Supplies:□ 1-1/4" Trap:

6

MEETS THE AMERICANS WITH DISABILITIES ACT GUIDELINES AND ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES - CHECK LOCAL CODES. Install lavatory 864mm (34") from finished floor. Lavatory installed 51mm (2") minimum from front edge of countertop provides 686mm (27") knee clearance area.

^{*} See faucet section for additional models available





COUNTERTOP (BY OTHERS)

SEALING 16mm (21)

178mm (33-387)

SUPPLIES 205mm (33-387)

SUPPLIES 205mm (33-387)

1-1/4' O.D. WASTE 11-1/4' O.D. FINISHED PLOOR

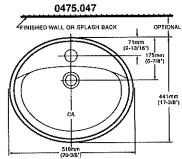
TAILPIECE FINISHED FLOOR

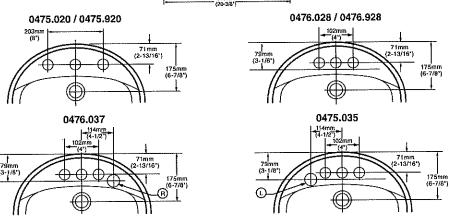
APPLIES TO ALL CONFIGURATIONS

BARRIER FREE SLEARANCE 22mm (87)

BARRIER FREE SLEARANCE 22mm (87)

SUPPLIES TO ALL CONFIGURATIONS





HOLES	0475,020 0475,920	0476.028 0476.928	0475.047	0476.037 0475.035
SPOUT	1-3/8" (35mm) DIA.	1-1/4" (32mm) DIA.	1-3/8" (35mm) DIA.	1-1/4" (32mm) DIA.
FAUCET	1-3/8" (35mm) DIA.	1-1/4" (32mm) DIA.		1-1/4" (32mm) DIA.
SOAP DISPENSER				1-3/8" (35mm) DIA.

NOTES:

* DIMENSIONS SHOWN FOR LOCATION OF SUPPLIES AND "P" TRAP ARE SUGGESTED.
FOR COUNTERTOP CUTOUT AND INSTALLATION INSTRUCTIONS USE TEMPLATE SUPPLIED WITH SINK.
FITTINGS NOT INCLUDED WITH FIXTURE AND MUST BE ORDERED SEPARATELY.
SEALING COMPOUND SUPPLIED 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.



Z6953-XL-CV

Deck-Mounted Motor Gear-Driven Ceramic Operation TAG ___

Architectural/Engineering Specification:

Designed for modern commercial restrooms, the Camaya Series™ faucet delivers a superior user experience in both form and function. Crafted by world-class industrial designers, this faucet maintains a sleek and simple design that can be paired with a matching soap dispenser for an automatic, easy to install and user-friendly handwashing solution.

Zurn Lead Free products (-XL) is the line of durable, high quality brass faucets and fixtures that are designed and manufactured to comply with Section 1417 of the Safe Drinking Water Act (SDWA) which mandates the weighted average lead content of no more than 0.25% of the wetted surface.

Product Features:

- Infrared convergence-type proximity sensor
- · 30 second time out feature
- Standard Chrome-plated Cast Brass Body
- Also available in brushed nickel
- · Motor gear-driven ceramic operation
- ACA (7.5 VDC) Plug-In Power Converter included

Suffix Options:

Chrome Plated 4" Cover Plate -CP4 Temperature Mixing Valve -MV Supply Hoses for Mixing Valve -SH

Thermostatic Mixing Valve for Single Faucets -TMV-1

Alternate Finishes:

Brushed Nickel -BN

Compatibility

Soap Dispenser:



Z6953-SD

Compliance and Certification:

- ADA Compliant
- ASME A112.18.1/CSA B125.1
- cUPC
- Lead Free Compliant
- Texas Accessibility Standard (TAS)



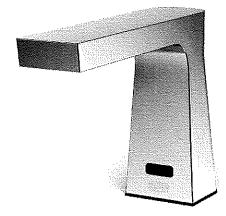








Meets the American Disabilities Guidelines and ANSI A117.1 requirements when installed according to these requirements. In Canada - Consult local codes and standards.



Aerator Options:

Aerator Options:						
	Flowrate GPM [LpM]	Vandal Resistant	WaterSense* Labeled	Outlet Type		
E	1.5[5.7]	✓	✓	Aerator		
"F	0.5[1.9]	✓		Spray		
7	1.5[5.7]	>	✓	Laminar		
-K	1.0[3.8]	>	~	Laminar		
-L	1.0[3.8]	✓	✓	Aerator		
-M	0.35[1.3]	✓		Spray		
-N	0.5[1.9]	✓		Laminar		

Power Supply Choices (Sold Separately):

Hardwired Power Converter

Optional Power Supply Accessories:

Connector Wire for Hardwire Install (7 ft) -CWB Connector Wire for Hardwire Install (20 ft) -CWB-1

-MJ Mini Junction Box

NOTE: For Hardwire applications furnish P6000-HW6 power converter. Order P6000-HW6 power converter seperately.

The P6000-HW6 and P6000-MJ will power up to 8 sensor faucets.

Architectural/Engineering Approval

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

*This device is WaterSense labeled when used with the appropriate flow rate and certified for residential and private restrooms.



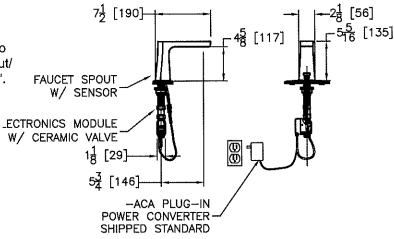
Z6953-XL-CV

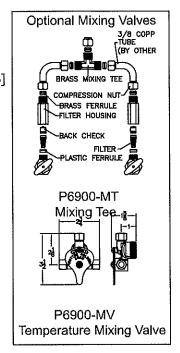
Deck-Mounted Motor Gear-Driven Ceramic Operation TAG _____

TYPICAL Z6953-XL-CV

AquaSense Hardwire Powered Faucet

NOTE: Recommended through hole diameter to properly mount the spout/ shank is 1-1/8" to 1-1/4".





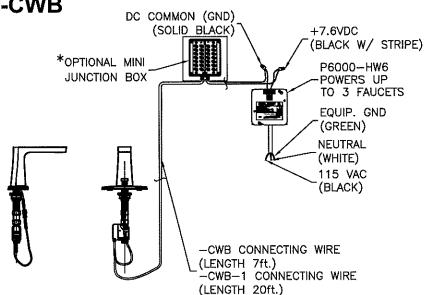
TYPICAL Z6953-XL-CV-CWB

AquaSense Hardwire Powered Faucet

Optional:

* Optional -MJ mini junction box for connecting up to 8 faucets

NOTE: MUST USE EITHER ZURN P6000-HW6 HARDWIRE POWER CONVERTER OR ZURN P6000-ACA PLUG-IN POWER CONVERTER TO ENSURE PROPER OPERATION. USING A POWER CONVERTER OTHER THAN ZURN MAY RESULT IN OPERATION MALFUNCTION OR UNIT FAILURE.

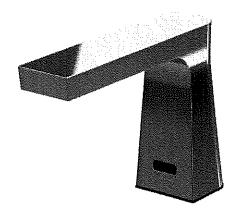




Camaya and Cumberland Series™ Faucet

Sensor-Operated Lavatory Faucets for Plug-In Installations. Installation, Operation, Maintenance, and Parts Manual

Patented and Patents Pending





Z6953-XL-CV Camaya Series

Z6956-XL-CV Cumberland Series

Sensor-Operated Plug-in Lavatory Faucets with Ceramic Valve

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 assumes 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 lists are approximate and are not guaranteed.

NOTICE: READ ENTIRE MANUAL PRIOR TO INSTALLING PRODUCT.

WARNING: Cancer and Reproductive Harm - <u>www.P65Warnings.ca.gov</u>

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

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

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.

Zurn Industries, LLC

511 W. Freshwater Way, Milwaukee, WI U.S.A. 53204 · Ph. 1-855-ONE-ZURN, Fax 919-775-3541

In Canada | Zurn Industries Limited

7900 Goreway Drive Unit 10, Brampton, Ontario L6T5W6 · Ph. 905-405-8272, Fax 905-405-1292

Rev. A

Date: 1/29/2019

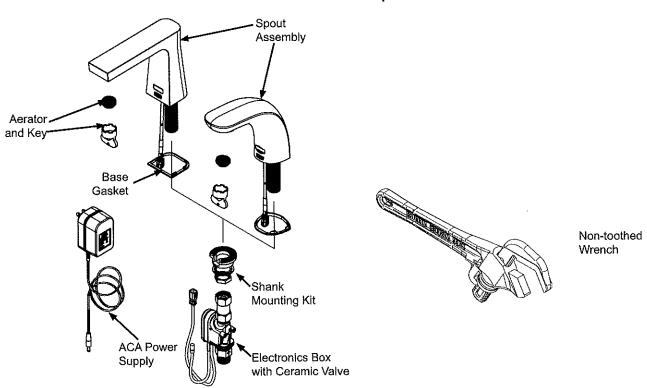
C.N. No.

Prod. | Dwg. No. FV651

Faucet Package Contents

Z6953-XL-CV & Z6956-XL-CV

Required Tools:



Specifications:

Voltage: 7.5 VDC external power supply

Sensor Range: Fixed

Operating Water Pressure: 10-125 psi

Operational Water Temperature: 33°F to 140°F (1°C to 60°C)

Aerator: 0.5 GPM Spray (Standard)

Important Safety Information:

- Installer is responsible for ensuring the product is installed and conforms to all plumbing codes and ordinances.
- Do not convert or modify this Zurn product yourself. All warranties will be voided.
- · Water supply lines must be sized according to building designer in order to provide adequate water supply for each fixture.
- · Flush all water lines prior to making connections.

Prior to Installation:

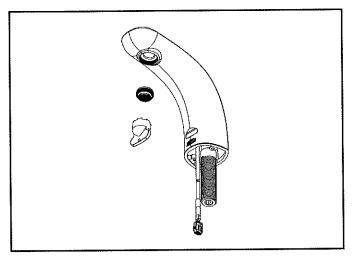
Before installing your Zurn® Faucet: the items listed below should already be installed on site.

- Lavatory/sink
- Drain Line
- Hot and cold water supply line or pre-tempered water supply line.
- Installer/Servicer should not use pipe dope or teflon/thread sealant anywhere on this product, most notably threads and connection points.
- · Care shall be taken when installing this product to prevent marring of any exposed or decorative surfaces.

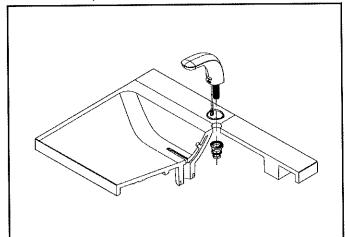
NOTE: Before installation, turn off water supplies to existing faucet and remove faucet if replacing an existing device. Clean the faucet basin and clear away debris. Flush all supply lines before connecting the faucet. Failure to do so may result in debris clogging the inlets and/or internal control and mixing valve

Spout Installation - Step 1

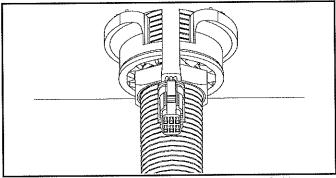
1.1. Carefully screw aerator into spout using included tool.



1.2. Install spout to sink using spout base gasket, plastic mounting washer, star washer and mounting nut (and cover plate for versions that are included).



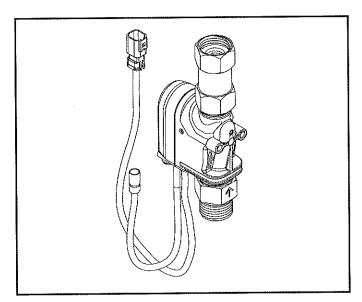
1.3. Ensure that slot in plastic washer is facing forward.



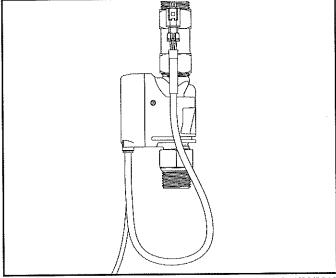
Take care passing sensor cable through hole. Cable passes through front of plastic mounting washer

Electronics Module Installation - Step 2

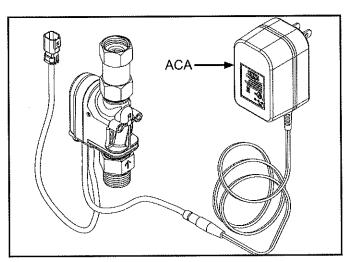
2.1. Remove the electronics module from box



2.2. Tighten electronics module assembly to shank and connect water line(s).

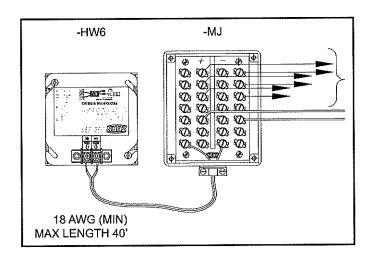


2.3a. Optional ACA version: Connect supplied inline connector and AC adapter.

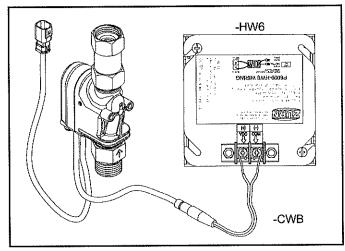


MJ unit (sold separately)

Note: Do not connect more than 3 boxes to a single transformer



2.3b. Optional HW6 (Hardwired 6V) version: Connect supplied inline connector and hardwire adapter. When securing the CWB wires to the screw terminals on HW6 unit, the BLACK WITH DASHED MARKINGS should be connected to the Positive (+) terminal, and the SOLID BLACK wire should be connected to the Negative (-) terminal.



2.5. Turn on water supply(ies).

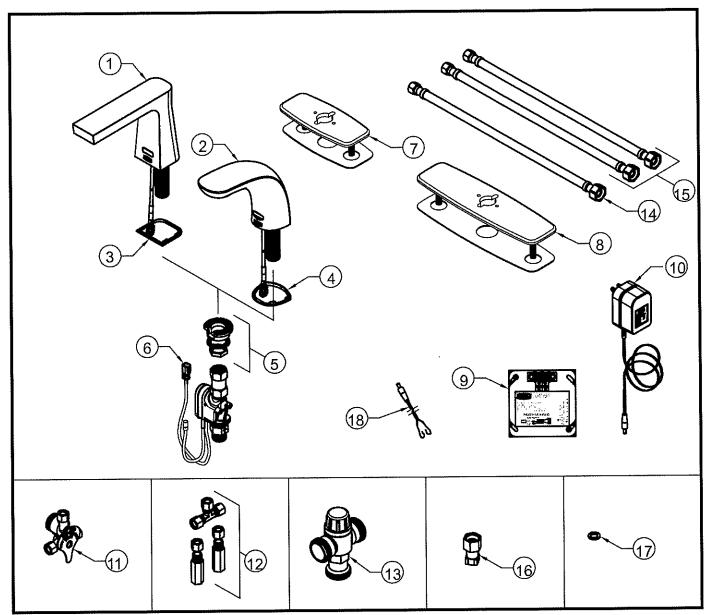
TROUBLESHOOTING GUIDE:

POTENTIAL SITUATIONS	POSSIBLE CAUSES	SUGGESTED SOLUTION TIPS	
Faucet is non-responsive	No power.	Verify power provided by HW6 or ACA	
	Sensor and electronic connector cable has bent or broken pins.	Check to see if pins are missing, bent, or broken. If yes, then the electronic box needs replaced	
	Sensor lens could have surface damage, scratches, or deposit build ups.	"Inspect the sensor lens. May require cleaning with a damp cloth or sensor replacement"	
	Micro-processor has locked up	Disconnect power. Wait 10 seconds. Reconnect power.	
Water does not stop	Electronics box cable connector has bent pins that are shorted	Check to see if pins are missing, bent, or broken. If yes, then the electronic box needs replaced.	
	Micro-processor has locked up	Disconnect power. Wait 10 seconds. Reconnect power.	
Ghost Activation	Sensor lens could be obstructed or environmental factors such as high reflective surfaces and/ or bright sunlight conditions.	Check/clean sensor lens of any debris or buildup If sunlight or IR interference is a factor.	
"Sensor faucet is leaking underneath the sink or counter"	Mounting hardware is not tight- ened sufficiently (faucet shank, electronic box, supply hoses, etc)	Check and ensure the nuts and joints are tight and secure from the supply stop all the way to the faucet shank.	
	Missing the washer located in the valve box nut where it assembles to the faucet shank.	Make sure the water supply stops are shut off. Check to ensure the washer is installed or damaged. If not, install washer. If a washer is damaged, replace with new.	

For further assistance with troubleshooting visit http://www.zurn.com

- Care and Cleaning Instructions:
 Do not use any abrasive or chemical cleaners to clean the faucets.
- If abrasives or chemicals are used it can lead to dulling of luster, attacking of chrome plating or decorative finishes.
- ONLY use mildly warm soapy water, and then wipe the device dry with a clean/soft towel or cloth.
- Upon cleaning other areas of the restroom be sure the sensor lenses are protected from other cleaning chemicals/solvents to prevent potential damages to the sensor and/or electronics.

Z6953/Z6956-XL-CV Parts List



De	scription	Product No.	
1	Z6953 Spout Assembly with Sensor	P6953-XL-CV-1	
2	Z6956 Spout Assembly with Sensor	P6956-XL-CV-1	
3	Z6953 Spout base gasket	P6953-XL-42	
4	Z6956 Spout base gasket	P6956-XL-42	
5	Mounting Kit	P6900-43	
6	Ceramic Valve	P6950-XL-CV-B-L	
7	4" Cast Cover Plate w/Gasket	P6900-CP4	
8	8" Cast Cover Plate w/Gasket	P6900-CP8	
9	-HW6 Power Supply	P6900-HW6	

Des	cription	Product No.	
10	Plug-in Power Converter	P6900-ACA	
11	Mixing Valve w/Filter	P6900-XL-MV	
12	Mixing Tee w/Filters and Back Checks	P6900-XL-MT	
13	Thermostatic Mixing Valve	P6900-TMV-1	
14	Single Stainless Supply Hose (XL)	P6900-SSH	
15	Stainless Supply Hoses (XL)	P6900-SSH-2	
16	Composite Mixing Valve Adaptor	P6900-MV-ADAP	
17	Shank Connection Gasket	P6900-SG	
18	-CWB Pigtail	P6900-CWB	

Zurn Industries, LLC

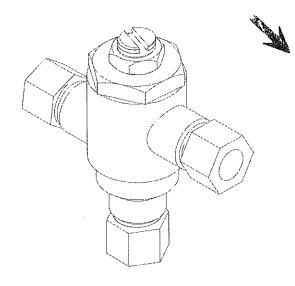
511 W. Freshwater Way, Milwaukee, WI U.S.A. 53204 · Ph. 1-855-ONE-ZURN, Fax 919-775-3541

In Canada | Zurn Industries Limited

7900 Goreway Drive Unit 10, Brampton, Ontario L6T5W6 · Ph. 905-405-8272, Fax 905-405-1292

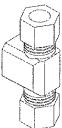
Prod. | Dwg. No. FV651

170A-LF

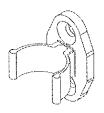


Options:

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







BRKT option

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

Engineer's Approval	Job #
	Arch/Eng.
	Contractor

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
- Includes locknut to prevent accidental adjustment
- Easy 3/8" tubing or flex hose installation

Specifications:

- Minimum flow: 0.25 GPM (0.95 1/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:

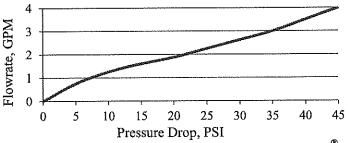
ASSE 1070-2015 (BSSE



CSA B125.70-15



	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

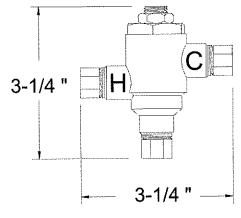


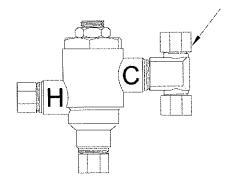


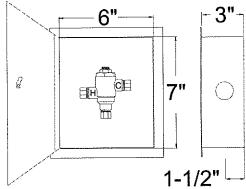
1360 Elmwood Avenue, Cranston, RI 02910 USA Phone: 401.461.1200 Fax: 401.941.5310

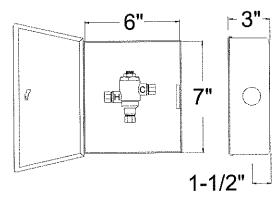
Email: info@leonardvalve.com
Web Site: http://www.leonardvalve.com

BP-OPTION



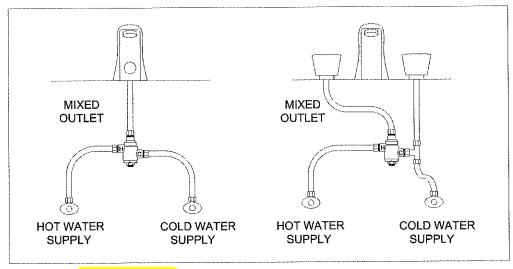






170A-LF-STSTL-REC

170A-LF-STSTL-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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Email: info@leonardvalve.com

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

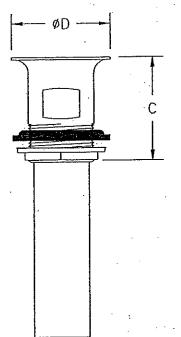


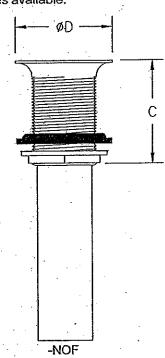
SOLID TOP, OPEN-GRID P.O. PLUGS

Z8743-PC

TAA	
TAG	

Engineering Specification: Zum Z8743-PC – Chrome plated cast brass solid top, open grid, P.O. plug. Furnished with 5"[127mm] long, chrome plated brass 17 gauge tailpiece and chrome plated cast brass locknut for sink depth up to 2 1/4"[57mm]. 6"-, 8"-, and 12"- tailpieces available.





Note: All dimensions are for reference only. Do not use for pre-plumbing

PRODUCT NUMBER	TAILPIECE in[mm]	DIMENSIONS Cin[mm] ØDin[mm]	MASTER CARTON	WEIGHT CARTON
Z8743-PC	1 1/4[32]	2 9/16[65] 2 1/4[57]	50	50
Z8743-1-PC	1 1/2[38]	2 9/16[65] 2 1/4[57]	30	30

OPTIONAL ACCESSORIES

Suffix	-	Description		
	-NOF	No Overflow		
	-6	w/6"[152mm]Tailpiece		
	-8	w/8"[203mm]Tailpiece		
	-12	w/12"[305mm]Tailpiece		

ZURN INDUSTRIES, LLC + 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 4 3544 Nashua Drive 4 Mississauga, Ontario L4V1L2 4 Phone: 905/405-8272 Fax: 905/405-1292



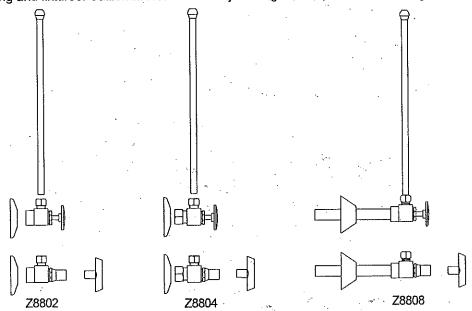


STANDARD STOP WITH FLEXIBLE LAVATORY SUPPLY

Z8802-XL-LR-PC TO Z8808-XL-LRLK-PC

Engineering Specification: Zum Z8802-XL-LR-PC TO Z8808-XL-LRLK-PC Two Zurn chrome plated, solid brass angle stops with round wheel handles or loose key as specified, two 12"[305mm] flexible chrome plated copper lavatory risers complete with two chrome plated steel flanges. Z8808-XL-LR-PC and Z8808-XL-LRLK-PC include 5"[127mm] chrome plated copper extension tubes and deep bell steel flanges.

Zurn Lead Compliant* "XL" products are a line of durable, high quality brass faucets and fixtures that are designed and manufactured to comply with state laws and local codes that mandate lead content levels. Zurn "XL" products are manufactured with *not more than 0.25% lead content when used with respect to wetted surfaces of pipes and pipe fittings, plumbing fitting and fixtures: California Health & Safety Code § 116875; Vermont 9 VCA § 2470h.



	PRODUCT		1.063.7	MASTER	WEIGHT	CARTON
	NUMBER	CONNECTIONS	EXT.	CARTON	LR	LRLK
	Z8802-XL-LR-PC	1/2 [13] IPS x 3/8 [10]OD	_	25	24	
	38802-XL-LRLK-PC	1/2 [13] IPS x 3/8 [10] OD		25		25
7	Z8804-XL-LR-PC	1/2 [13] NOM x 3/8 [10] OD	-	25	24	·
	Z8804-XL-LRLK-PC	1/2 [13] NOM x 3/8 [10] OD	_	25		25
	Z8808-XL-LR-PC	1/2 [13] SWT x 3/8 [10] OD	5	25	28	
	Z8808-XL-LRLK-PC	(5	25		33

SUFFIXES

·			
	- A	Single supply option	
	- C1	Standard Line Lock Shield Cap	
	-CE	Chrome Plated, Cast Brass, Flange with setsor	ew
-	- D	Chrome Plated Steel, Deep Bell Flange (Bell Ty	pe)
	- WD	Wrought Brass, Deep Flange, (Bell Type)	
	- XP	Cross Handle	
	- 15	15[381] Supply Tube	
	- 20	20[508] Supply Tube	
	- 30	30[762] Supply Tube	
	- 36		REG

*REGULARLY FURNISHED UNLESS OTHERWISE SPECIFIED

ZURN INDUSTRIES, LLC + COMMERCIAL BRASS OPERATION + 2640 SOUTH WORK STREET + FALCONER NY 14733
Phone: 1-800-997-3876 + Fax: 1-919-775-3541 + www.zurn.com

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

Rev. A Date: 5/4

C.N. No. 127628



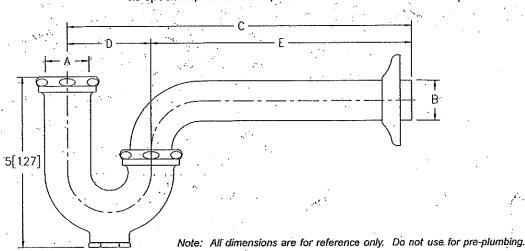
SEMI-CAST P-TRAPS WITH WALL BEND

Z8700-PC TO Z8708-PC

TAG



Engineering Specification: Zurn Z8700-PC to Z8708-PC. — Chrome-plated cast brass (copper alloy) body P-trap with cleanout, tubular brass wall bend as specified, die-cast nuts, and shallow escutcheon with compression inlet.



PRODUČT	Δ .	В.		D	IMENSION	IS -	MASTER	WEIGHT:
NUMBER	INLET in[mm]	OUTLET in[mm]	GAUGE	C in[mm]	D in[mm]	E in[mm]	CARTON	CARTON [lbs]
Z8700-PC	1 1/4[32]	1 1/4[32]	17	10[254]	2 1/2[64]	7 1/2[191]	12	24
Z8700-8-PC	1 1/4[32]	1 1/4[32]	17	11[279]	2 1/2[64]	8 1/2[216]	12	24
Z8700-15-PC	· 1 1/4[32]	1 1/4[32]	17	·15[381]	2 1/2[64]	12.1/2[318]	18	40
Z8701-PC	1 1/4[32]	1 1/2[38]	- 17	10 1/2[267]	3[76]	7 1/2[191]	12	24
Z8701-9-PC	1 1/4[32]	1 1/2[38]	17	12[305]	3[76]	9[229]	12	· 24
	1 111500	4.4.00000	4-7	4550041	0.0703	4010073	40	1 40

Z8701-15-PC	1 1/4[32]	1 1/2[38]	17	15[381]	3[76]	12[305]	18	42	_
Z8702-PC*	1.1/2[38]	1 1/2[38]	. 17	10 1/2[267]	3[76]	7 1/2[191]	12	24	
Z8702-9-PC*	1 1/2[38]	1 1/2[38]	17	12[305]	3[76]	9[229]	12.	24	
Z8702-15-PC*	1 1/2[38]	1 1/2[38]	17	15[381]	3[76]	12[305]	18	42	
Z8703B-PC**	1 1/2[38]	2[51]	17	12 1/2[318]	3 1/2[89]	9[229]	6	. 18	
Z8704B-PC**	2[51]	2[51]	17.	12 1/2[318]	3 1/2[89]	9[229]	6	18	
Z8706-PC	1 1/4[32]	1 1/4[32]	20	10[254]	2 1/2[64]	7 1/2[191]	12	24	_
Z8707-PC	1 1/4[32]	1 1/2[38]	20	10 1/2[267]	3[76]	7 1/2[191]	12	24	
1							***************************************		_

OPTIONAL ACCESSORIES -

Z8708-PC*

Suffix		Description
خــ	-B	Brass Nuts
244	►BX	Box Escutcheon
	-CE	Cast Brass Escutcheon with Setscrew
	-D	Deep Escutcheon (Note = not available for Z8703B-PC and Z8704B-PC)
	-J	Metal to Metal Ground Joint Connection
	-WC	Waste Connections - Compression
	-15	15[381] C Dim. 1 1/4[32] and 1 1/2[38] Only
	-18	18[457] C Dim. 1 1/4[32] and 1 1/2[38] Only

1 1/2[38]

1 1/2[38]

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10 1/2[267]

3[76]

^{**} SHIPPED WITH BRASS NUTS UNLESS OTHERWISE SPECIFIED

LAV-3 LAVATORY
AM. STANDARD 0356.421 WALL HUNG LAVATORY
ZURN Z6953-XL-CV-CWB-HW6 HARDWIRED SENSOR FAUCET
LEONARD 170A-LF THERMOSTATIC MIXING VALVE
Z8743PC GRID STRAINER
Z8802XL-LRLK-PC SUPPLY AND STOP
Z8700PC-BX 1-1/4" CAST BRASS P-TRAP
ZURN Z1231 LAVATORY CARRIER



LUCERNE™ WALL-HUNG LAVATORY

VITREOUS CHINA

BARRIER FREE

LUCERNE™ WALL-HUNG LAVATORY

- Wall-hung sinkVitreous 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 203mm (8") centers (Illus.):

- □ 0356.028 For exposed bracket support Shown with 4801.862 Amarilis Heritage faucet with Triune Cross handles (not included)
- **0356.015** For wall hanger (included) or concealed arms support
- ☐ 0356.915 For wall hanger (included) or concealed arms support
 - · Less overflow

Faucet holes on 102mm (4") centers:

- O355.027 For exposed bracket support O355.012 For wall hanger (included) or
- concealed arms support
- ☐ 0355.912 For wall hanger (included) or concealed arms support
 - Less overflow

Single center faucet hole (lilus.):

- □ 0356.041 For exposed bracket support Shown with 1340,000 metering faucet (not included)
- 0356,421 For wall hanger (included) or concealed arms support
- ☐ 0356.921 For wall hanger (included) or concealed arms support
 - Less overflow
- □ 0356.439 For wall hanger (included) or concealed arms support
 - Single faucet hole on right
- □ 0356.066 For exposed bracket support
 - Single faucet hole on right

Nominal Dimensions:

521 x 464mm

(20-1/2" x 18-1/4")

Bowl sizes:

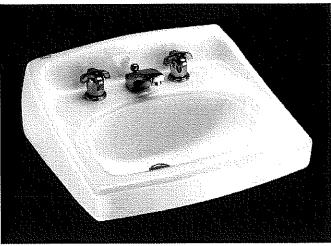
381mm (15") wide

254mm (10") front to back

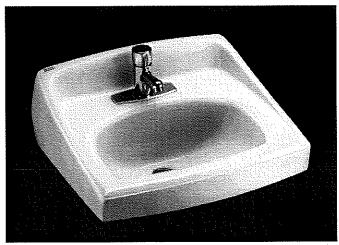
165mm (6-1/2") deep

Compliance Certifications -Meets or Exceeds the Following Specifications:

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



0356.028



0356.041

SEE FOLLOWING PAGES FOR ROUGHING-IN DIMENSIONS

To Be Specified:

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

^{*} See faucet section for additional models available



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.

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0356.041 SINGLE CENTER HOLE FOR EXPOSED

BRACKET SUPPORT

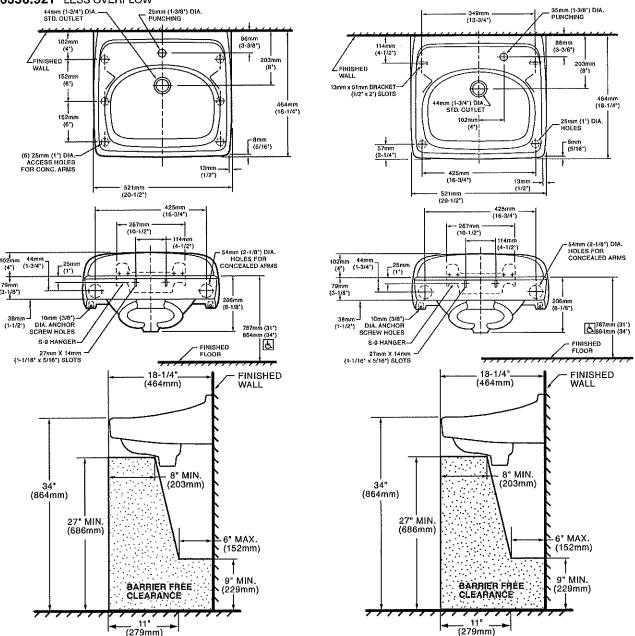
0356.421 SINGLE CENTER HOLE FOR WALL

HANGER OR CONCEALED ARMS

0356.921 LESS OVERFLOW

0356.439 SINGLE CENTER HOLE ON RIGHT FOR WALL HANGER OR CONCEALED ARMS

0356.066 SINGLE CENTER HOLE ON RIGHT FOR EXPOSED BRACKET SUPPORT



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.

LAVATORY DESIGNED TO MEET ADA HANDICAPPED GUIDELINES WITH MOUNTING HEIGHT SET AT 864MM (34") ABOVE FINISHED FLOOR.



Z6953-XL-CV

Deck-Mounted Motor Gear-Driven Ceramic Operation TAG ____

Architectural/Engineering Specification:

Designed for modern commercial restrooms, the Camaya Series™ faucet delivers a superior user experience in both form and function. Crafted by world-class industrial designers, this faucet maintains a sleek and simple design that can be paired with a matching soap dispenser for an automatic, easy to install and user-friendly handwashing solution.

Zurn Lead Free products (-XL) is the line of durable, high quality brass faucets and fixtures that are designed and manufactured to comply with Section 1417 of the Safe Drinking Water Act (SDWA) which mandates the weighted average lead content of no more than 0.25% of the wetted surface.

Product Features:

- Infrared convergence-type proximity sensor
- · 30 second time out feature
- · Standard Chrome-plated Cast Brass Body
- · Also available in brushed nickel
- · Motor gear-driven ceramic operation
- ACA (7.5 VDC) Plug-In Power Converter included

Suffix Options:

Chrome Plated 4" Cover Plate -CP4 -MV Temperature Mixing Valve -SH Supply Hoses for Mixing Valve

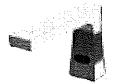
Thermostatic Mixing Valve for Single Faucets -TMV-1

Alternate Finishes:

-BN **Brushed Nickel**

Compatibility

Soap Dispenser:



Z6953-SD

Compliance and Certification:

- ADA Compliant
- ASME A112.18.1/CSA B125.1
- cUPC
- · Lead Free Compliant
- Texas Accessibilty Standard (TAS)



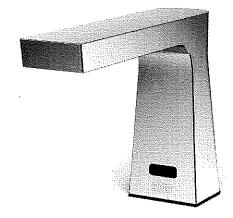








Meets the American Disabilities Guidelines and ANSI A117.1 requirements when installed according to these requirements. In Canada - Consult local codes and standards,



Aerator Ontions:

Aerator Options.						
	Flowrate GPM [LpM]	Vandal Resistant	WaterSense* Labeled	Outlet Type		
<mark>E</mark>	1.5[5.7]	✓	✓	Aerator		
-F	0.5[1.9]	>		Spray		
٦-	1.5[5.7]	✓	>	Laminar		
-K	1.0[3.8]	✓	✓	Laminar		
-L	1.0[3.8]	✓	✓	Aerator		
-M	0.35[1.3]	✓		Spray		
-N	0.5[1.9]	✓		Laminar		

Power Supply Choices (Sold Separately):

Hardwired Power Converter HW6

Optional Power Supply Accessories:

Connector Wire for Hardwire Install (7 ft) -CWB-1 Connector Wire for Hardwire Install (20 ft)

> Mini Junction Box -MJ

NOTE: For Hardwire applications furnish P6000-HW6 power converter. Order P6000-HW6 power converter seperately.

The P6000-HW6 and P6000-MJ will power up to 8 sensor faucets.

Architectural/Engineering Approval

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

Please contact Zum for most up to date information.

*This device is WaterSense labeled when used with the appropriate flow rate and certified for residential and private restrooms.



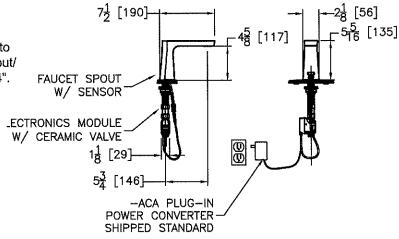
Z6953-XL-CV

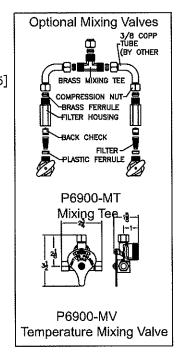
Deck-Mounted Motor Gear-Driven Ceramic Operation TAG _____

TYPICAL Z6953-XL-CV

AquaSense Hardwire Powered Faucet

NOTE: Recommended through hole diameter to properly mount the spout/ shank is 1-1/8" to 1-1/4".





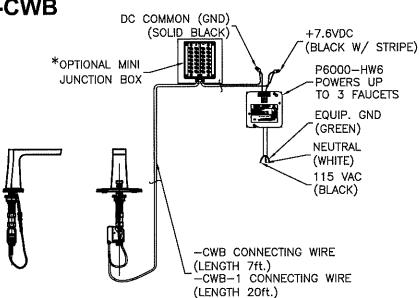
TYPICAL Z6953-XL-CV-CWB

AquaSense Hardwire Powered Faucet

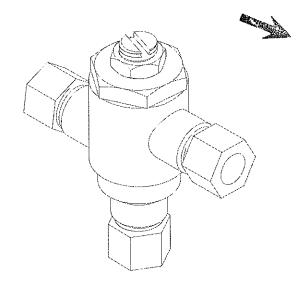
Optional:

* Optional -MJ mini junction box for connecting up to 8 faucets

NOTE: MUST USE EITHER ZURN P6000-HW6 HARDWIRE POWER CONVERTER OR ZURN P6000-ACA PLUG-IN POWER CONVERTER TO ENSURE PROPER OPERATION. USING A POWER CONVERTER OTHER THAN ZURN MAY RESULT IN OPERATION MALFUNCTION OR UNIT FAILURE.

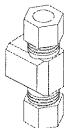


170A-LF

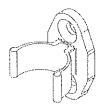


Options:

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







BRKT option

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

Engineer's Approval	Job #
	Arch/Eng.
	Contractor

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
- Includes locknut to prevent accidental adjustment
- Easy 3/8" tubing or flex hose installation

Specifications:

- Minimum flow: 0.25 GPM (0.95 I/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:

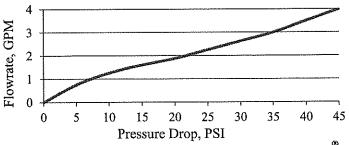
ASSE 1070-2015



CSA B125.70-15



		PRESS	URE DRO	OP 9C		
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

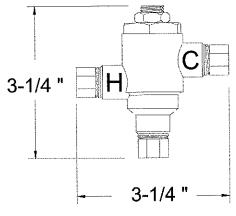


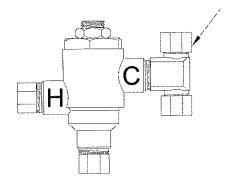


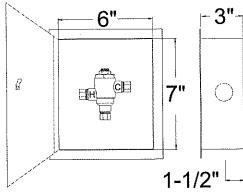
1360 Elmwood Avenue, Cranston, RI 02910 USA Phone: 401.461.1200 Fax: 401.941.5310

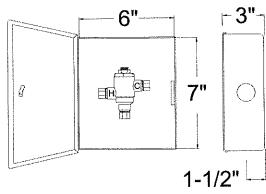
Email: info@leonardvalve.com
Web Site: http://www.leonardvalve.com

BP-OPTION



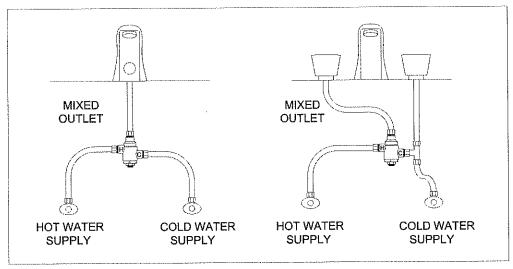






170A-LF-STSTL-REC

170A-LF-STSTL-EXP



170A-LF

Note: Leonard Valve Company reserves the right of product, or

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design modifications without notice or obligation.

170A-LF-BP



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

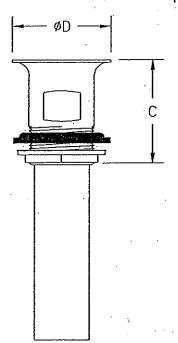


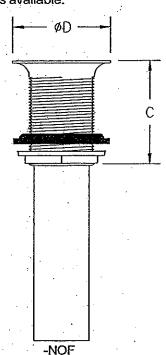
SOLID TOP, OPEN-GRID P.O. PLUGS

Z8743-PC

TAG	

Engineering Specification: Zum Z8743-PC – Chrome plated cast brass solid top, open grid, P.O. plug. Furnished with 5"[127mm] long, chrome plated brass 17 gauge tailpiece and chrome plated cast brass locknut for sink depth up to 2 1/4"[57mm]. 6"-, 8"-, and 12"- tailpieces available.





Note: All dimensions are for reference only. Do not use for pre-plumbing

	PRODUCT NUMBER	TAILPIECE in[mm]	DIMENS	17 87 9 1 Sec. 1	MASTER CARTON	WEIGHT CARTON
	₹8743-PC	1 1/4[32]	2 9/16[65]	2 1/4[57]	50	50
-	Z8743-1-PC	1 1/2[38]	2 9/16[65] 2	2 1/4[57]	30	30

OPTIONAL ACCESSORIES

Suffix		Description
	-NOF	No Overflow
	-6	w/6"[152mm] Tailpiece
	-8	w/8"[203mm] Tailpiece
	-12	w/12"[305mm] Tailpiece

ZURN INDUSTRIES, LLC + 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

医克里耳氏 经基本股份





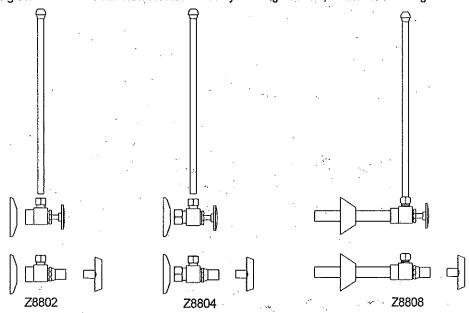
STANDARD STOP WITH FLEXIBLE LAVATORY SUPPLY

Z8802-XL-LR-PC TO Z8808-XL-LRLK-PC

Т	Λ	\sim	
L	н	ורו	
		_	

Engineering Specification: Zurn Z8802-XL-LR-PC TO Z8808-XL-LRLK-PC Two Zurn chrome plated, solid brass angle stops with round wheel handles or loose key as specified, two 12"[305mm] flexible chrome plated copper lavatory risers complete with two chrome plated steel flanges. Z8808-XL-LR-PC and Z8808-XL-LRLK-PC include 5"[127mm] chrome plated copper extension tubes and deep bell steel flanges.

Zurn Lead Compliant* "XL" products are a line of durable, high quality brass faucets and fixtures that are designed and manufactured to comply with state laws and local codes that mandate lead content levels: Zurn "XL" products are manufactured with *not more than 0.25% lead content when used with respect to wetted surfaces of pipes and pipe fittings, plumbing fitting and fixtures: California Health & Safety Code § 116875; Vermont 9 VCA § 2470h.



	PRODUCT NUMBER	CONNECTIONS	EXT.	MASTER CARTON	WEIGHT LR	CARTON LRLK
	Z8802-XL-LR-PC	1/2 [13] IPS x 3/8 [10]OD		25	24	`
	8802-XL-LRLK-PC	1/2 [13] IPS x 3/8 [10] OD		25		25
1	Z8804-XL-LR-PC	1/2 [13] NOM x 3/8 [10] OD	ı	25	24	
	Z8804-XL-LRLK-PC	1/2 [13] NOM x 3/8 [10] OD	-	25		25
	Z8808-XL-LR-PC	., 1/2 [13] SWT x 3/8 [10] OD	. 5	25	28	
	Z8808-XL-LRLK-PC	1/2 [13] SWT x 3/8 [10] OD	5	25		33

SUFFIXES

 - A	Single supply option
- C1	Standard Line Lock Shield Cap
 -CE	Chrome Plated, Cast Brass, Flange with setscrew
- D	Chrome Plated Steel, Deep Bell Flange (Bell Type)
 - WD	Wrought Brass, Deep Flange, (Bell Type)
 - XP	Cross Handle
 - 15.	15[381] Supply Tube
- 20	20[508] Supply Tube
- 30	30[762] Supply Tube
 - 36	36[914] Supply Tube *REG

*REGULARLY FURNISHED UNLESS OTHERWISE SPECIFIED

ZURN INDUSTRIES, LLC • COMMERCIAL BRASS OPERATION • 2640 SOUTH WORK STREET • FALCONER NY 14733 Phone: 1-800-997-3876 • Fax: 1-919-775-3541 • www.zurn.com

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



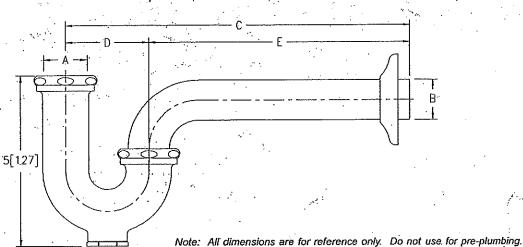
SEMI-CAST P-TRAPS WITH WALL BEND

Z8700-PC TO Z8708-PC

TAG



Engineering Specification: Zurn Z8700-PC to Z8708-PC. – Chrome-plated cast brass (copper alloy) body P-trap with cleanout, tubular brass wall bend as specified, die-cast nuts, and shallow escutcheon with compression inlet.



		•	•		·				
	PRODUČT	Α	В		D	IMENSION	IS .	MASTER	WEIGHT:
ŀ	NUMBER	INLET in [mm]	OUTLET in [mm]	GAUGE	Cin[mm]	D in[mm]	E in[mm]	CARTON	CARTON [lbs]
V	Z8700-PC	1 1/4[32]	1 1/4[32]	17	10[254]	2 1/2[64]	7 1/2[191]	12	24
7	Z8700-8-PC	1 1/4[32]	1 1/4[32]	17.	11[279]	2 1/2[64]	8 1/2[216]	12	24
	Z8700-15-PC	1 1/4[32]	1 1/4[32]	17	15[381]	2 1/2[64]	12.1/2[318]	18	40
	Z8701-PC	1 1/4[32]	1 1/2[38]	17	10 1/2[267]	3[76]	7 1/2[191]	12	24
Ì	Z8701-9-PC	1 1/4[32]	1 1/2[38]	17	12[305]	3[76]	9[229]	12	· 24
	Z8701-15-PC	1 1/4[32]	1 1/2[38]	17	15[381]	3[76]	12[305]	18	42
	Z8702-PC*	1.1/2[38]	1 1/2[38]	· ~ 17	10 1/2[267]	3[76]	7 1/2[191]	12	24
	Z8702-9-PC*	1 1/2[38]	1 1/2[38]	17	12[305]	3[76]	9[229]	. 12.	24
	Z8702-15-PC*	1 1/2[38]	1 1/2[38]	17	15[381]	3[76]	12[305]	18	42
	Z8703B-PC**	1 1/2[38]	. 2[51]	17	12 1/2[318]	3 1/2[89]	9[229]	6	18
ı	Z8704B-PC**	2[51]	2[51]	17	12 1/2[318]	3 1/2[89]	9[229]	· 6 ·	18
	Z8706-PC	1 1/4[32]	1 1/4[32]	20	10[254]	2 1/2[64]	7 1/2[191]	12	24
	Z8707-PC	1 1/4[32]	1 1/2[38]	20	10 1/2[267]	3[76]	7 1/2[191]	12	24
	Z8708-PC*	1 1/2[38]	1 1/2[38]	20	10 1/2[267]	3[76]	7 1/2[191]	12	24

OPTIONAL ACCESSORIES

Suffix		Description
·	-B	Brass Nuts
	►BX	Box Escutcheon
	-CE	Cast Brass Escutcheon with Setscrew
	-D	Deep Escutcheon (Note = not available for Z8703B-PC and Z8704B-PC)
	ل-	Metal to Metal Ground Joint Connection
	-WC	Waste Connections - Compression
	-15	15[381] C Dim. 1 1/4[32] and 1 1/2[38] Only
	-18	18[457] C Dim. 1 1/4[32] and 1 1/2[38] Only
* COME	HTI\M 2:	OPTIONAL 1-1/2" x 1-1/4" REDUCTION POLY-WASHER FOR INLET

* COMES WITH OPTIONAL 1-1/2" x 1-1/4" REDUCTION POLY-WASHER FOR INLET

** SHIPPED WITH BRASS NUTS UNLESS OTHERWISE SPECIFIED

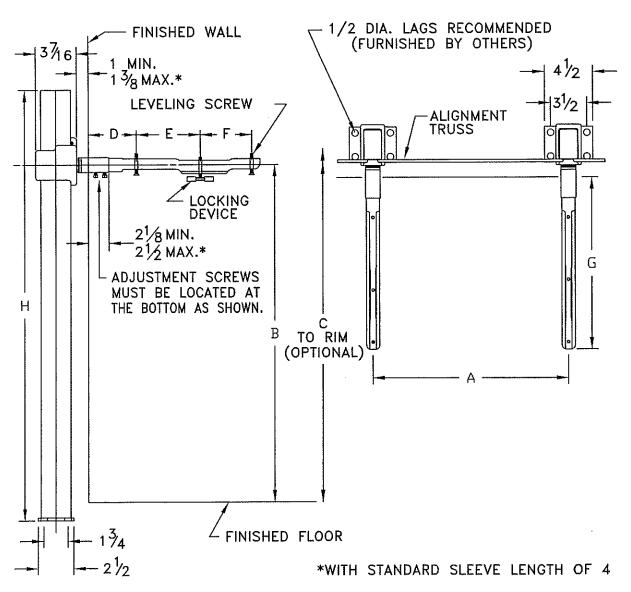
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Z1231 RIGID SYSTEM FOR AMERICAN STANDARD CO. LAVATORIES

DIMENSIONS SUBJECT TO MANUFACTURING TOLERANCES

AMERICAN	STANDARD	CO. REF.		-	ZURN	1 RE	FERI	ENC	_	
NAME	CATALOG NO.	SIZE	Α	В	С	D	E	F	G	<u>H</u>
LUCERNE	0355.012, .034	20 1/2 X 18 1/4	16 3/4	29 3/4	31	4	6	6	16 1/2	<u> 36</u>
LUCERNE	0356.015, .421, .439	20 1/2 X 18 1/4	16 3/4	29 3/4	31	4	6	6	16 1/2	36



ENGINEERING SPECIFICATION:
AS SHOWN; "DURA-COATED" STEEL STANCHIONS
WITH WELDED FEET, STEEL SLEEVES, CAST
IRON HEADERS AND ARMS, ALIGNMENT TRUSS,
AND MOUNTING BOLTS AND TRIM.

DATE: 2/10/05	PRODUCT NUMBER Z1231
REV. F	DRAWING NUMBER PAGE 3 OF 3
C.N. NO. 92944	54511

WC-1 WATER CLOSET AM. STANDARD 3695.001 CLOSET BOWL ZURN ZEMS6000-HET-MOB HARDWIRED SENSOR FLUSH VALVE W/ OVERRIDE BUTTON CENTOCO AM500STSCCSS CLOSET SEAT



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

VITREOUS CHINA with EVERCLEAN®

& BARRIER FREE

Priolo® FloWise® 16-1/2" Height Elongated Flushometer Toilet with EverClean®

- Floor mount elongated rear outlet 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 (1.28 gpf or 1.6 / 1.1 gpf dual flush)
- Permanent EverClean® surface inhibits the growth of stain- and odor-causing bacteria, mold, and mildew on the surface
- 16-1/2" rim height for accessible application
- · Condensation channel
- · Powerful direct-fed siphon jet action
- Fully glazed 2-1/8" trapway
- 1-1/2" inlet spud
- 4 bolt caps

3695.001 Elongated bowl only, top spud

- 3696.001 Elongated bowl only, top spud with slotted rim for bedpan holding
- □ 3697.001 Elongated bowl only, back spud

System MaP* Score:

- 1,000 grams of miso @ 1.6 gpf or 1.28 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.

Component Parts:

- ☐ 047007-0070A Inlet spud (furnished with bowl)
- 481310.0200A Bolt caps with retainers (furnished with bowl)

Nominal Dimensions:

752 x 356 x 419mm (29-5/8" x 14" x 16-1/2")

Recommended working pressure—between 25 psi at valve when flushing and 80 psi static

Fixture only, less seat and flushometer valve

Compliance Certifications Meets or Exceeds the Following Specifications:

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



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



SEE REVERSE FOR ROUGHING-IN DIMENSIONS

To Be Specified:

- U Color White
- ☐ Seat:
 - ☐ American Standard #5901.110 Heavy duty open front less cover with EverClean® surface
 - American Standard #5905.110 Extra heavy duty open front less cover with EverClean® surface
- □ Alternative Seat:
- ☐ Flushometer Valve:
 - □ 1.6 apf:
 - ☐ Sensor-Operated: American Standard Selectronic® DC Power #6065.161.002 (Top Spud)
 - Sensor-Operated: American Standard Selectronic® AC Power #6067.262.002 (Back Spud)
 - ☐ Manual: American Standard #6047.161.002 (Top Spud)
 - ☐ 1.28 apf:
 - ☐ Sensor-Operated: American Standard Selectronic® DC Power #6065.121.002 (Top Spud)
 - ☐ Sensor-Operated: American Standard Selectronic® AC Power #6067.222.002 (Back Spud)
 - ☐ Manual: American Standard #6047,121.002 (Top Spud)
 - ☐ 1.6 / 1.1 gpf Dual Flush:
 - Sensor-Operated: American Standard Selectronic[®]
 DC Power #6065.761.002 (Top Spud)









When used with 1,28 gpf tollet flush valves

ADA COMPLIANT

EVERCLEAN

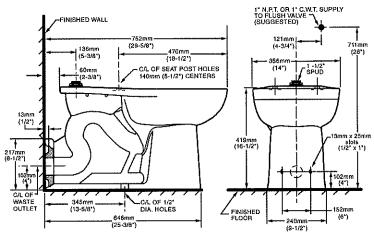
EFFICIENT



Priolo® FloWise® 16-1/2" Height Elongated Flushometer Toilet VITREOUS CHINA with EVERCLEAN®

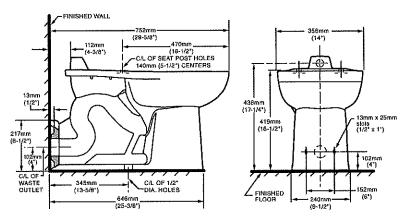
BARRIER FREE

3695.001/3696.001



DIMENSIONS (Nominal) NOTE: Distance from floor to closet flange centerline (rough-in) must be 4" (102 mm) with flange surface flush to 1/16" (1.6mm) max. beyond finished wall.

3697,001



DIMENSIONS (Nominal) NOTE: Distance from floor to closet flange centerline (rough-in) must be 4" (102 mm) with flange surface flush to 1/16" (1.6mm) max. beyond finished wall.

NOTES: PRODUCTS 3695 SHOWN, 3696 SAME AS EXCEPT WITH SLOTTED RIM PHODUCTS 3695 SHOWN, 3696 SAME AS EXCEPT WITH SLOTTED HIM 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.
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.

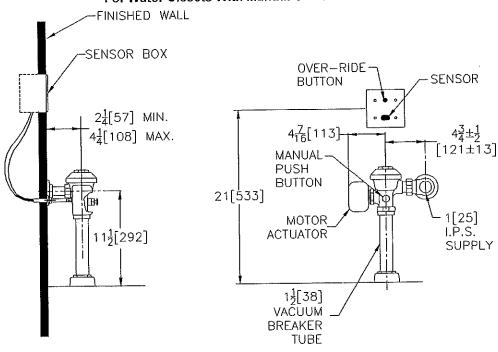
IMPORTANT: Dimensions of fixtures are nominal and may vary within the range of tolerances established by ANSI Standard A112.19.2. These measurements are subject to change or cancellation. No responsibility is assumed for use of superseded or voided pages.



TAG

ZEMS6000-YB-YC-MOB

Hardwired Automatic Sensor Flush Valve For Water Closets With Manual Override Button





Flow Options

	-HET	1.28	gpf	High	Efficiency	Flush	
_	15454						

□ -WS1 1.6 gpf Low Consumption Flush

□ 3.5 gpf

□-FF 4.5 qpf Full Flush

Accessories

□ -FM12	Floor Mount 12" Rough In
□-YJ	Split Ring Pipe Support
□-YK	Solid Ring Pipe Support
□-Y0	Bumper on Angle Stop
-	Other

Power Supply Choices (Sold Separately)

□-ACA-BA 6VDC Plug-in Power Converter (Up to 6 valves)
□-HW6 Hardwired Power Converter (Up to 8 Valves)

☐ -MJ Mini Junction Box

NOTE: MUST USE EITHER ZURN P6000-HW6 HARDWIRE POWER CONVERTER OR ZURN P6900-ACA-BA PLUG-IN POWER CONVERTER TO ENSURE PROPER OPERATION. USING A POWER CONVERTER OTHER THAN ZURN MAY RESULT IN OPERATION MALFUNCTION OR UNIT FAILURE.

ENGINEERING SPECIFICATION: ZURN ZEMS6000-YB-YC-MOB AquaSense® Exposed Hardwired Automatic Sensor Flush Valve For Water Closets- Exposed, quiet diaphragm-type, chrome plated, flushometer valve with a polished exterior. Complete with Zurn's chloramine resistant, dual seal diaphragm with a clog resistant by-pass. The valve incorporates a motorized actuator, an automatic sensor with a manual push-button override, high back pressure vacuum breaker, one piece hex coupling nut, adjustable tailpiece, spud coupling and flange for top spud connection. Switchable sensor features include: courtesy flush, automatic 8 hour flush, and diagnostic indicator lights. Control stop has internal siphonguard protection, vandal resistant stop cap, sweat solder kit, and a cast wall flange with set screw. Internal seals are made of chloramine resistant materials. Electrical box is not provided (see installation instrucions for type and size). Note: Order power converter separate.

Architectural/Engineering Approval

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

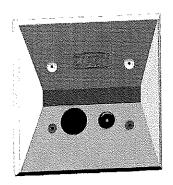
ZURN INDUSTRIES, LLC. ◆ COMMERCIAL BRASS OPERATION ◆ 5900 ELWIN BUCHANAN DRIVE ◆ SANFORD NC 27330
Phone: 1-800-997-3876 ◆ Fax: 919-775-3541 ◆ World Wide Web: www.zurn.com
In Canada: ZURN INDUSTRIES LIMITED ◆ 7900 Goreway Drive Unit 10 ◆ Brampton, Ontario L6T5W6 ◆ Phone: 905-405-8272 Fax: 905-405-1292

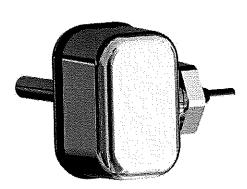


AquaSense® ZEMS G2 Series

Automatic Systems Sensor-Operated Flushometer Installation, Operation, Maintenance and Parts Manual

Patented and Patents Pending





Sensor-Operated Exposed Systems

Sensor-Operated Concealed Systems

ZEMS6000AV	ZEMS6200AV-3	ZEMS6140AV	ZEMS6190AV
ZEMS6200AV	ZEMS6001AV	ZEMS6240AV	ZEMS6290AV
ZEMS6000AV-2	ZEMS6201AV	ZEMS6152AV	ZEMS6195AV
ZEMS6200AV-2	ZEMS6003AV	ZEMS6252AV	ZEMS6295AV
ZEMS6000AV-3	ZEMS6203AV	ZEMS6153AV	ZEMS6197AV
		ZEMS6253AV	ZEMS6297AV

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

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

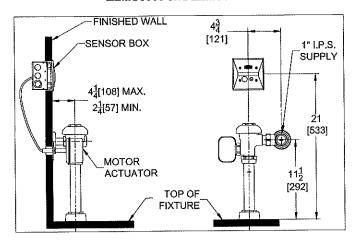
▲ AVERTISSEMENT: Cancer et effets néfastes sur la reproduction - www.P65Warnings.ca.gov

LIMITED WARRANTY

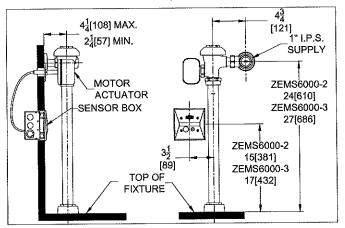
All goods sold hereunder are warranted to be free from defects in material and factory workmanship for a period of five years from the date of purchase. Decorative finishes warranted for one year. We will replace at no costs goods that prove defective provided we are notified in writing of such defect 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 assumes 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 lists are approximate and are not guaranteed.

Valve Rough-In

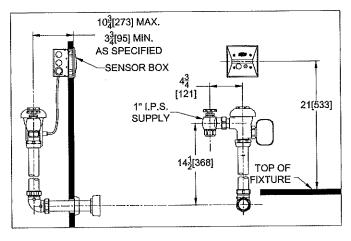
Models
ZEMS6000 and ZEMS6200



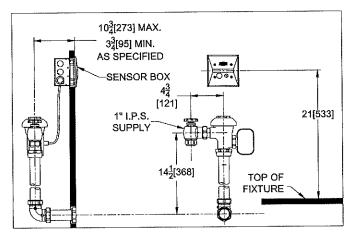
Models ZEMS6000-2, ZEMS6000-3 ZEMS6200-2, ZEMS6200-3



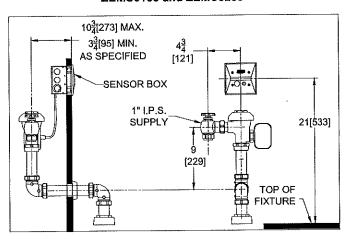
Models
ZEMS6140 and ZEMS6240



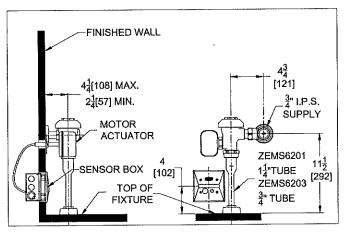
Models ZEMS6152 and ZEMS6252



Models ZEMS6153 and ZEMS6253



Models ZEMS6001, ZEMS6003 ZEMS6201, ZEMS6203

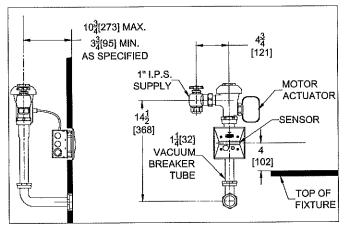


NOTES: FOR INSTALLATIONS WITH GRAB BAR, CENTERLINE OF 4 X 4 BOX MUST BE A MINIMUM OF 4 INCHES ABOVE CENTERLINE OF GRAB BAR.

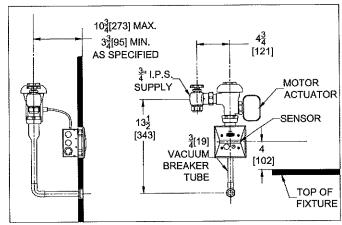
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Valve Rough-In (Continued)

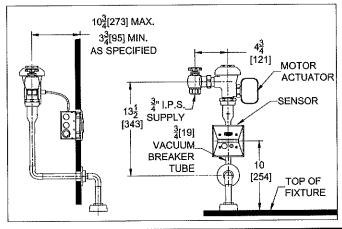
Models
ZEMS6190 and ZEMS6290



Models ZEMS6195 and ZEMS6295



Models
ZEMS6197 and ZEMS6297



Prior to Installation

Prior to installing the Zurn Automatic Sensor-equipped Flushometer, install the items listed below as illustrated in Figures 1 through 3.

- 2-gang electrical box (4 x 4 x 2 1/8, use Steel City #52171-N box, and #52-C-18 device cover or equivalent for sensor with closet or urinal installs);
- Optional: Single-gang electrical outlet for plug-in power converter.
- Electrical wiring to the power converter outlet (120 VAC, 35 watts service required for each power converter used).
- Closet fixture.
- · Zurn carrier system, Z1200 series or equal.

Important:

- ALL ELECTRICAL WIRING IS TO BE INSTALLED IN ACCORDANCE WITH NATIONAL/LOCAL CODES AND REGULATIONS.
- •ALL PLUMBING IS TO BE INSTALLED IN ACCORDANCE WITH APPLICABLE CODES AND REGULATIONS.
- WATER SUPPLY LINES MUST BE SIZED TO PROVIDE AN ADEQUATE VOLUME OF WATER FOR EACH FIXTURE.
- •FLUSHALLWATERLINESPRIORTOMAKINGCONNECTIONS.
- SENSOR UNITS SHOULD NOT BE LOCATED ACROSS FROM EACH OTHER OR IN CLOSE PROXIMITY TO HIGHLY REFLECTIVE SURFACES.
- CONTROL STOP SHOULD NEVER BE OPENED TO ALLOW FLOW GREATER THAN FIXTURE IS CAPABLE OF EVACUATING. IN THE EVENT OF VALVE FAILURE, FIXTURE MUST BE ABLE TO HANDLE A CONTINUOUS FLOW.

Electrical

AC/DC Power Supply

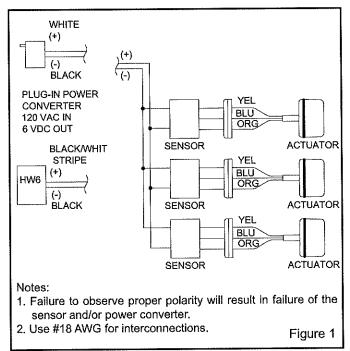
Install hardwired power supply (P6000-HW6) or receptacle for the Zurn Power Converter (P6900-ACA-BA) in a convenient location. An optional mini junction box (P6000-MJ) is recommended to distribute power to each sensor location.

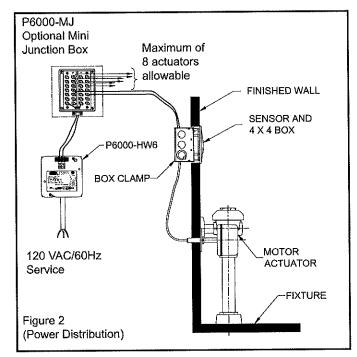
NOTE: One Zurn P6000-HW6 can operate up to eight automatic sensor equipped flushometers, and the optional P6000-ACA-BA Power Converter can handle up to six flushometers and is supplied with a six-foot cord. If additional wire is needed from the Power Converter to the Flushometer(s), use #18 AWG (not provided). **Do not supply power** to the Power Converter until installation of actuator, sensor and Flushometer is completed and checked. **Proper polarity must be observed or damage to one or all components will result.**

Electrical Hook-up (Figure 1)

Be certain power is off to prevent damage to electrical components. Connect the sensor to the actuator and power converter exactly as shown in Figure 1.

Double check that power converter polarity is correct.





Sensor Installation

STEP 1 - Locate Sensor Box

Locate sensor box in the wall according to model number as shown on pages 2 and 3. Install plaster ring so screw holes are on left and right side of box (as shown in Figure 3). Trim tiles to allow screw holes in plaster ring to show.

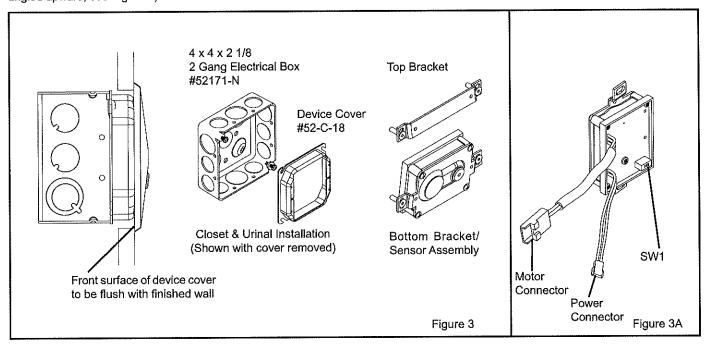
Note: Product is configured at time of shipment for a 168 hour trap seal flush (SW1 in OFF position on rear of sensor). If a 48 hour trap seal flush is desired, set SW1 to ON position. (Figure 3A)

STEP 2 - Mount Automatic Sensor (Figure 3)

Install the Zurn Automatic Sensor into the lower half of the 2-gang electrical box using two (2) screws provided. Connect the 2-wire power cable and 3-wire actuator cable to sensor. Connectors are keyed to insure correct polarity. Ensure that the sensor is mounted in the orientation shown (with lens angled downward, see Figure 4).

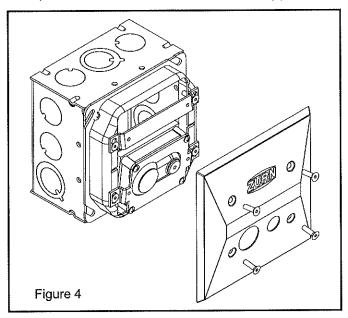
STEP 3 - Install Top Bracket (Figure 3)

Fasten the Top Bracket to the electrical box using (2) screws provided. Ensure that bracket is mounted in the orientation shown (with face angled upward, see Figure 4).



STEP 4 - Install Cover Plate (Figure 4)

Perform a trial fit of the Cover Plate and adjust positions of the sensor and top bracket as needed to ensure alignment of sensor lens, button, and cover screws. Fasten Cover Plate with (4) screws provided.



Mechanical

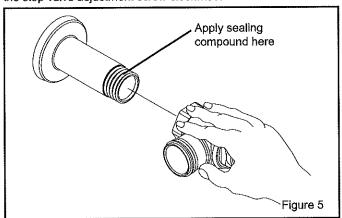
The AquaVantage® design is optimized to operate between 25 and 80 psi (172 to 552 kPa) of water pressure (running). The minimum pressure required for the valve to work properly is determined by the fixture selected. Please consult fixture manufacurer for water pressure requirements. Protect the chrome or special finish of this flushometer during installation. **Do not use toothed tools to install or service the valve as this will damage the finish.** Also, see "Care and Cleaning" section of this manual.

Control Stop Installation Instructions

STEP 1

Install control stop assembly by threading it onto water supply pipe and tightening with a smooth jawed wrench. Apply thread sealing compound or pipe tape to male NPT thread on sweat solder adapter only. See Figure 5.

Prior to turning on main water supply line ensure all stop valves are closed off tight by using a flathead screwdriver and turning the stop valve adjustment screw clockwise.

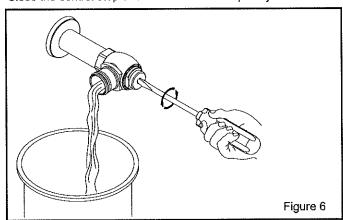


STEP 2

When all stop valves are properly connected to the water supply line and water pressure is available open the control stop using a flathead screwdriver and turning the stop valve adjustment screw counter clockwise. See Figure 6.

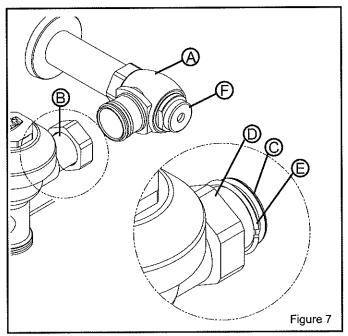
Allow the water supply line to flush any debris or sediment that may be present in the line.

Close the control stop once the lines are completely flushed.



Flush Valve Installation

Prior to attaching flush valve to control inspect and verify that the O-ring seal is located within the O-ring groove at the tailpiece. Ensure the locking nut and locking snap ring are also present on the tailpiece. See Figure 7. Lubricate O-ring with water if necessary and insert flush valve tailpiece into the control stop valve. Tighten locking nut using a smooth jawed wrench.



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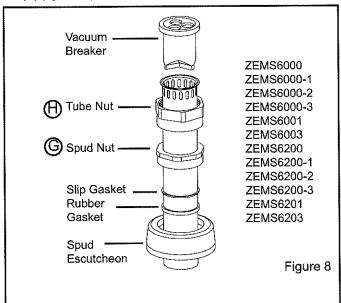
Install Vacuum Breaker Flush Connection

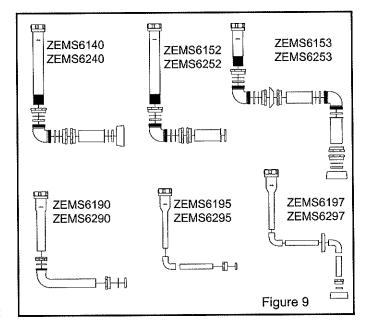
Models ZEMS6000, ZEMS6000-2, ZEMS6000-3, ZEMS6001, ZEMS6003, ZEMS6200, ZEMS6200-2, ZEMS6200-3, ZEMS6201, and ZEMS6203

Slide the tube nut (H), spud nut (G), slip gasket, rubber gasket and spud escutcheon over the vacuum breaker tube and insert tube into fixture spud. Hand tighten tube nut to valve body and hand tighten spud nut onto fixture spud. Adjust the valve assembly for plumb. Tighten fixture spud nut (G), vacuum breaker tube nut (H) and lock nut (D) (fig. 7 & 8) with a wrench.

Models ZEMS6140, ZEMS6152, ZEMS6153, ZEMS6190, ZEMS6195, ZEMS6197, ZEMS6240, ZEMS6252, ZEMS6253, ZEMS6290, ZEMS6295 and ZEMS6297 (Figure 9)

NOTE: When cutting scored pipe, leave a minimum of 1-1/4" of scoring to ensure engagement with compression coupling. Assemble pipe, elbows, couplings, slip washers, rubber gaskets and flanges as illustrated in Figure 9. Hand tighten all couplings. Once installation is completed, tighten all connections.

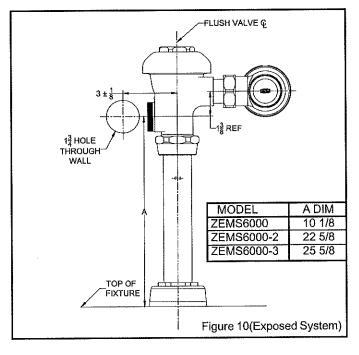


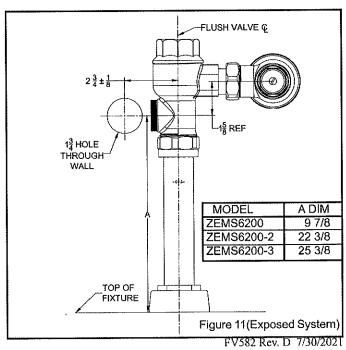


Motor Actuator Installation

- 1. Drill 1-3/4" diameter hole per Figures 10 or 11.
- 2. Run "fish tape" from electrical box to 1-3/4" hole.
- 3. Install actuator escutcheon to the actuator pipe with setscrew toward actuator. Do not tighten setscrew at this time.
- 4. Pull actuator cable through hole with fish tape and back to sensor box. Secure cable to box with box clamp.
- 5. With escutcheon loose and handle port washer installed, push cable into wall. The actuator must be angled away from the valve body at this time until the actuator push rod clears the handle port flange. The actuator can now be mounted to the flush valve and tightened.
- 6. Push escutcheon back to wall and tighten setscrew.

NOTE: See Figure 2 for typical installation including optional mini junction box.





Customized Sensor Range Setting

The ZEMS is factory set to accommodate most closet and urinal installations. If this factory setting does not accommodate your specific environment, follow steps below to customize your range settings for your specific ZEMS model.

CALIBRATION INSTRUCTIONS FOR ZEMS G2

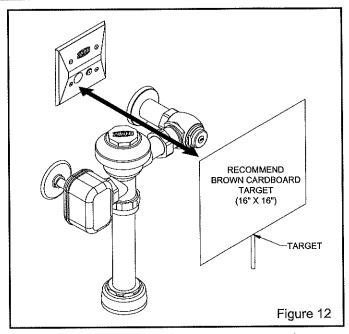
- 1. Obtain a target. SEE FIGURE 12.
- PRESS and HOLD button for 10 seconds or until the LED turns solid.

(*Unit will blink four times and flush once while button is being held)

- 3. RELEASE finger after LED turns solid.
- 4. PRESS and HOLD button when LED starts blinking.
- 5. RELEASE finger when LED turns solid.
- Set target at desired distance, (No less than 16") from sensor face and verify NO other objects are in view of sensor face.
- 7. Keep target steady Unit will blink while calibrating.
- After 30 seconds, calibration ends with a fast double blink or a solid LED for 5 seconds.
- IF THE LED REMAINS SOLID FOR 5 SECONDS AFTER CALIBRATION, the calibration was NOT successful. REPEAT STEPS 2-8
- For closet installations continue to "VERIFY CALIBRATION FOR CLOSET INSTALLATIONS".

Verify Calibration for Closet Installations

- Stand outside closet stall and close door and verify that sensor does not see stall door. If LED blink/flashes, recalibrate to a shorter range.
- 2. Slowly open door to closet stall while looking at ZEMS-IS sensor.
- If led blinks while door is opening, recalibrate to a shorter range.
 FAILURE TO DO SO WILL RESULT IN GHOST FLUSHING.



Activating the Motor Actuator with the Sensor

To activate the motor actuator with the sensor, simply place a target in front of the sensor. A single red light will flash indicating the sensor has recognized the target. If the target stays in view for eleven seconds, two flashing red lights will occur. This indicates that the target has been in view for the required time and upon leaving the view, a signal will be sent to the motor actuator to flush the flush valve. NOTE: If the target does not stay in view for the required eleven seconds, a flush will not occur.

IMPORTANT NOTE: Excessive water flow creates noise, while too little flow will not satisfy the needs of the fixture. Proper adjustment is made when:

- 1. The plumbing fixture is cleansed after each flush without splashing water out from the lip.
- 2. A quiet flushing cycle is achieved.

After adjustment: Replace the Zurn stop cap screw cover.

Care and Cleaning Instrustructions

Do not use abrasive or chemical cleaners to clean Flushometers, sensor, and actuators as they may degrade the sensor lens, dull the luster, and attack the chrome or special decorative finishes. Use only mild soap and water, then wipe dry with a clean cloth or towel.

While cleaning the bathroom tile, the Flushometer and actuator should be protected from splattering of cleaner. Do not use acids and cleaning fluids as they can damage the optics lens and chrome plating.

Seasonal use.

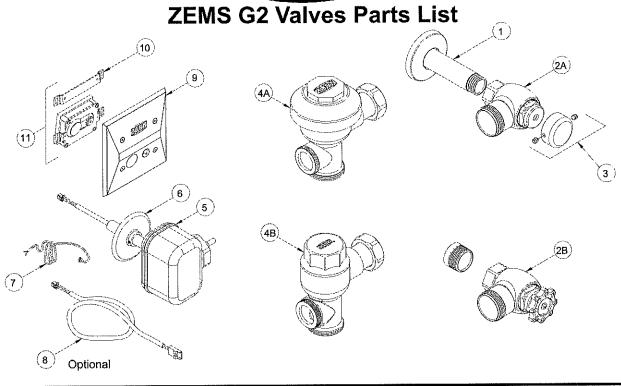
Valves that are used in installations subject to shut down because of cold and freezing conditions should be maintained in the following manner.

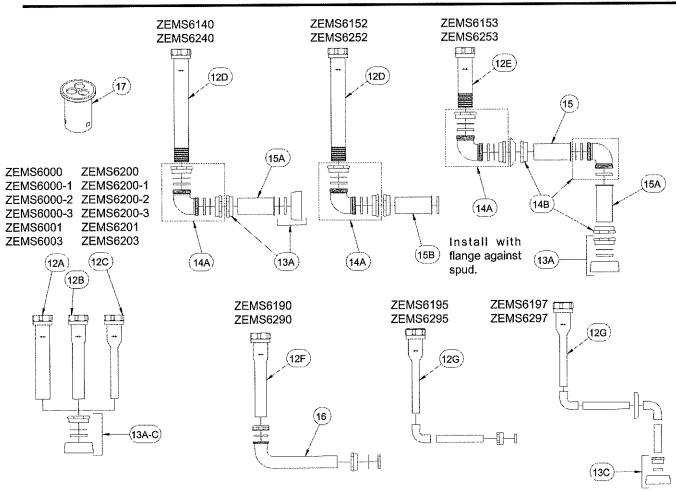
- 1. Shut off the main supply.
- 2. Drained water.
- 3. Remove the stop valve cap and stop internals to allow the water to drain from the flush valve and supply line.

ZEMS G2 Trouble Shooting

roblem	0001000	Corrective Action
Valve will not operate.	1) Stop valve is closed	1) Open stop valve.
	Supply valve is closed.	2) Open supply valve.
	The electric wire(s) is not connected.	3) Connect the wires.
	4) Sensor lens may be dirty.	4) Clean lens.
	5) Reflective surface in front of sensor.	5) Remove the reflective surface from in front of the sensor.
	Detection range not adjusted properly.	6) Adjust the detection range.
	The infrared sensor or the actuator is out of order.	7) Contact distributor for replacement.
	8) Sensor fault	8) Replace sensor
	No power provided by power supply	9) Replace power supply
Flush valve does not	Sensor does not recognize a user	Re-calibrate sensor per "Calibration Instructions" section.
activate after user leaves	Power supply may be disrupted	Check available voltage where escutcheon is attached to wall with DC voltmeter. 7.4-9 VDC is required.
		Verify connection to actuator.
Repeated valve activation when power is provided	Insufficient DC power level (less then 7.4 volts DC	1)Upgrade the -HW6 power supply to the new ZURN power supply (greater than 7.4 volts DC) or replace the ACA supply.
Insufficient volume of	Stop valve is not open enough.	Open stop valve for desired volume of water.
water to adequately	Urinal piston installed in closet valve.	Replace urinal piston with proper closet piston.
siphon fixture	Insufficient volume or pressure at supply.	Consult fixture guide for minimum gallons per minute flow and running pressure for satisfactory performance.
Valve is flushing too long or not shutting off.	Trip mechanism not seating properly due to foreign material between trip mechanism and seat.	Disassemble parts and rinse thoroughly.
	By-pass orifice is plugged or partially plugged.	Examine by-pass orifice and clean if necessary being certa not to enlarge orifice opening.
	3) Line pressure is not adequate to force trip mechanism to seal.	Pressure is inadequate or has dropped below minimum operating range. Steps should be taken to increase the line pressure.
Water splashes out of	1) Supply volume is more than is necessary.	Adjust downward on control stop.
fixture/	Lime accumulation on vortex or spreader holes of fixture.	2) Remove the lime build up.
Flush is not considered quiet.	Control stop may not be adjusted for quiet operation.	Adjust the control stop for quiet operation keeping in mind the fixture evacuation requirements.
	Fixture may be contributing to noise.	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) Piping system may be source of noise.	3) High pressure in the system can sometimes be controlled by the stop valve. Other sources of noise may be the absence of air chamber and shock arrestors, loose pipes, improper size pipes, etc. In these cases the building engineer should be consulted.
Flush valve "ghost"	1) Sensor Lens may be dirty.	1) Clean lens.
flushes or activates randomly with no user present.	Power supply output is out of tolerance.	 DC voltage must be between 7.4-9 volts. Check for power fault or malfunction in a unit or replace with a Zu power converter.
•	3) Sensor is viewing stall door.	Re-calibrate sensor per "Calibration Instructions" section.
Flush valve shuts off too	Diaphragm Valves	
quick,	1) Damaged diaphragm.	1) Install new P6000-ECA, P6000-EUA replacement kit,
	Enlarged by-pass orifice.	2) Install new P6000-ECA, P6000-EUA replacement kit.
	Piston Valves	
	1) Damaged piston.	1) Install new P6200-EC, P6200-EU replacement kit.
	Enlarged by-pass orifice.	2) Install new P6200-EC, P6200-EU replacement kit.
Valve is short flushing	Diaphragm Valves	
	1) Enlarged by-pass orifice.	1) Install new P6000-ECA, P6000-EUA replacement kit.
	Urinal piston installed in closet valve.	Replace urinal piston with proper closet piston.
	Piston Valves	
	1) Enlarged by-pass orifice.	1) Install new P6200-EC, P6200-EU replacement kit.
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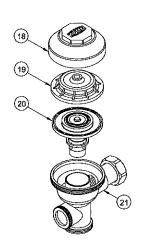




ZEMS G2 Valve Parts List (Continues)

P6003-YBYC Urinal Cast Wall Escutcheon & Solder Kit 2A. P6000-C-SD-CP Chrome Plated Closet Stop Assembly P6000-2-A-AA-CP Chrome Plated 1-1/2" X 21" Vacuum Breaker Assembly P6003-C-SD-CP Chrome Plated Urinal Stop Assembly P6000-3-A-AA-CP Chrome Plated 1-1/2" X 24" Vacuum Breaker Assembly P6003-C-SD-RB Rough Brass Closet Stop Assembly P6000-3-A-AA-CP Chrome Plated 1-1/2" X 24" Vacuum Breaker Assembly 2B. P6000-C-WH-CP Chrome Plated Closet Stop Assembly for Wheel Handle P6003-C-WH-CP Chrome Plated Urinal Stop Assembly for 12B. P6001-A-AA-CP Chrome Plated 1-1/4" X 8 1/2" Vacuum Breaker Assembly Wheel Handle Wheel Handle Wheel Handle
P6003-C-SD-CP Chrome Plated Urinal Stop Assembly P6000-C-SD-RB Rough Brass Closet Stop Assembly P6000-3-A-AA-CP Chrome Plated 1-1/2" X 24" Vacuum Breaker Assembly Chrome Plated Closet Stop Assembly for Wheel Handle Breaker Assembly Chrome Plated Urinal Stop Assembly for 12B. P6003-A-AA-CP Chrome Plated 1-1/4" X 8 1/2" Vacuum Breaker Assembly Chrome Plated Urinal Stop Assembly for 12C. P6003-A-AA-CP Chrome Plated 3/4" X 8 1/2" Vacuum
P6000-C-SD-RB Rough Brass Closet Stop Assembly P6000-3-A-AA-CP Chrome Plated 1-1/2" X 24" Vacuum Breaker Assembly 2B. P6000-C-WH-CP Chrome Plated Closet Stop Assembly Town Wheel Handle P6003-C-WH-CP Chrome Plated Urinal Stop Assembly for 12B. P6001-A-AA-CP Chrome Plated 1-1/4" X 8 1/2" Vacuum Breaker Assembly Chrome Plated Urinal Stop Assembly for 12C. P6003-A-AA-CP Chrome Plated 3/4" X 8 1/2" Vacuum Chrome Plated Urinal Stop Assembly for 12C. P6003-A-AA-CP Chrome Plated 3/4" X 8 1/2" Vacuum
P6003-C-SD-RB Rough Brass Urinal Stop Assembly Breaker Assembly 2B. P6000-C-WH-CP Chrome Plated Closet Stop Assembly for Wheel Handle P6003-C-WH-CP Chrome Plated Urinal Stop Assembly for 12B. P6001-A-AA-CP Chrome Plated 1-1/4" X 8 1/2" Vacuum Breaker Assembly Chrome Plated Urinal Stop Assembly for 12C. P6003-A-AA-CP Chrome Plated 3/4" X 8 1/2" Vacuum
2B. P6000-C-WH-CP Chrome Plated Closet Stop Assembly for Wheel Handle P6003-C-WH-CP Chrome Plated Urinal Stop Assembly for 12B. P6001-A-AA-CP Chrome Plated 1-1/4" X 8 1/2" Vacuum Breaker Assembly Chrome Plated Urinal Stop Assembly for 12C. P6003-A-AA-CP Chrome Plated 3/4" X 8 1/2" Vacuum
Wheel Handle Breaker Assembly P6003-C-WH-CP Chrome Plated Urinal Stop Assembly for 12C. P6003-A-AA-CP Chrome Plated 3/4" X 8 1/2" Vacuum
P6003-C-WH-CP Chrome Plated Urinal Stop Assembly for 12C. P6003-A-AA-CP Chrome Plated 3/4" X 8 1/2" Vacuum
1000 C WIT CIT CHICAGO
Wilhad Handla Hypavar Accomply
Whitelitation
P6000-C-WH-RB Rough Brass Closet Stop Assembly for 12D. P6000-1-A-AA-RB Rough Brass 1-1/2" X 12 1/2" Vacuum
Wheel Handle Breaker Assembly
P6003-C-WH-RB Rough Brass Urinal Stop Assembly for 12E. P6000-A-AA-RB Rough Brass 1-1/2" X 5" Vacuum
Wheel Handle Breaker Assembly
3. P6000-VC Vandal-Resistant Control Stop Cover 12F. P6001-10-A-AA-RB Rough Brass 1-1/4" X10" Vacuum
4A. Varies(Z60,Z61) Diaphragm Valve Breaker Assembly
4B. Varies(Z62) Piston Valve 12G. P6003-10-A-AA-RB Rough Brass 3/4" X 10" Vacuum
5. PEMS6000-HYM-G2 ZEMS Actuator Breaker Assembly
6. PEMS6000-G ZEMS Escutcheon 13A. P6000-H 11/2" Spud Coupling Assembly
7. PEMS6000-CWB-G2 Sensor Power Supply Cable 13B. P6001-H 11/4" Spud Coupling Assembly
8. PEMS6000-CW-G2 Motor-Sensor Connector Extension 13C. P6003-H 3/4" Spud Coupling Assembly
Cable, 24" (Optional) 14A. P6000-QE3-RB Rough Brass 1 1/2" Slip Elbow Assembly
(Max 2 per installation) 14B. P6000-QE3-CP Chrome Plated 1 1/2" Slip Elbow Assembly
9. PEMS6000-22-G2 ZEMS Sensor Plate with fasteners 15A. P6000-QT1-xx Chrome Plated Slotless Tube
10. PEMS6000-22-KIT-G2 ZEMS Top Bracket with fasteners 15B. P6000-QT3-xx Rough Brass Slotless Tube
11. PEMS6000-26-G2 ZEMS Sensor with top bracket and 16. Varies Rough Brass Slip Elbow
fasteners 17. P6000-B-HP Vacuum Breaker

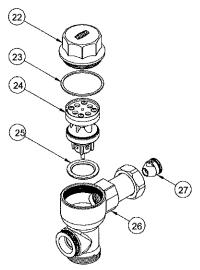
Z6000 Series



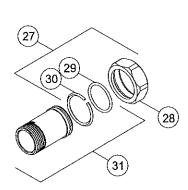
Diaphragm Valves (Z6000 Series)
18. P6000-LL-CP Chron Chrome Plated Valve Body Outside Cover P6000-LL-RB P6000-L Rough BrassValve Body Outside Cover Rough BrassValve Body Outside Cover Valve Body Inside Cover Closet Repair Kit (3.5 gpf) Low Consumption Closet Kit (1.6 gpf) High Efficiency Closet Kit (1.28 gpf) Urinal Repair Kit (1.5 gpf) 19. 20. P6000-ECA-WS P6000-ECA-WS1 P6000-ECA-HET P6000-EUA-WS P6000-EUA-WS1 P6000-EUA-EWS Low Consumption Urinal Kit (1.0 gpf) High Efficiency Urinal Kit (0.5 gpf)
Pint Urinal Kit (0.125 gpf) P6000-EUA-ULF P6000-19__ Valve Body

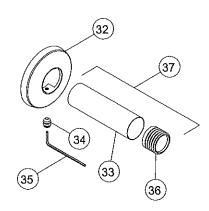
Piston	Valves (Z6200 Series)
22.	P6200-LL-CP	Valve Body Cover
	P6200-LL-ULF-CP	.125 gpf Vavle Body Cover
23.	P6200-LL-CG	Valve Body Cover Gasket
24.	P6200-EC-WS1	Low Consumption Closet Kit (1.6 gpf)
	P6200-EC-HET	High Efficiency Closet Kit (1.28 gpf)
	P6200-EU-WS1	Low Consumption Urinal Kit (1.0 gpf)
	P6203-EU-EWS	High Efficiency Urinal Kit (0.5 gpf)
	P6203-EU-ULF	Ultra Low Flush Kit (.125 gpf)
25.	P6000-S-30	Main Seat
	P6200-MS-ULF	,125 gpf Main Seat
26.	Varies	Valve Body
27.	PTR6203-FA-LF	Urinal 0.125/0.250 gpf Tailpiece filter

Z6200 Series



Valve Repair Parts List (Continues)





- 27, P6000-K
- 28, P6000-C32-CP P6000-C32-RB
- 29. P6000-C31
- 30. P6000-C30
- 31. P6000-J_
- 32, P6000-YC P6003-YC

Tailpiece Coupling Assembly Chrome Plated Locking Nut Rough Brass Locking Nut Tailpiece O-Ring

Snap Ring

Adjustable Tailpiece Assembly

1" Cast Wall Escutcheon 3/4" Cast Wall Escutcheon 33. P6000-YB-CVR P6003-YB-CVR

- 34. P6000-YC-SS
- 35. P6000-VC-W-VP
- 36. P6000-YBA P6003-YBA
- 37. P6000-YB P6003-YB

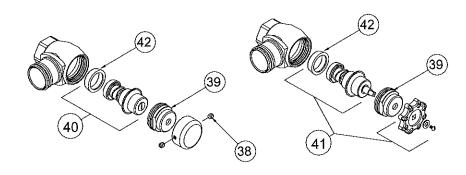
1"Supply Cover Tube 3/4" Supply Cover Tube Setscrew for Cast Wall Escutcheon

5/64 Allen Wrench

1" Sweat Solder Adapter 3/4" Sweat Solder Adapter

1" Sweat Solder Kit

3/4" Sweat Solder Kit



- 38. P6000-VC-SS
- 39. P6000-C34-CP P6000-C34-RB
- 40. P6000-D-SD
- 41. P6000-D-WH
- 42, P6000-D42

Set Screw for Control Stop Cover Chrome Plated Stop Cap Bonnet Rough Brass Stop Cap Bonnet

Stop Cap Internals

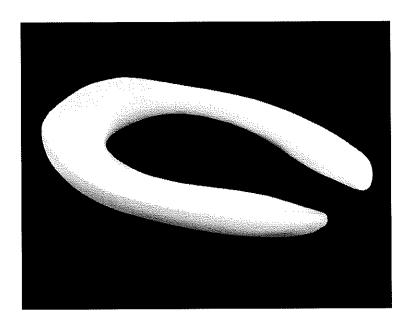
Stop Cap Internals with Wheel Handle

Stop Seat

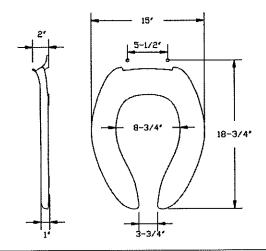


AMFR500STSCC-001

COMMERCIAL HEAVY DUTY







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

Product Specifications

Shape	Elongated
Seat Material	Polypropylene
Seat Form	Open front
Commercial Hing	ge Yes
Bolt Material	Stainless steel
Hardware Mater	ial Stainless Steel
Check Hinge	Yes
Cover	No
Custom Gasket	Yes
Color	White
Warranty	1 year limited warranty
Available Colors	White,

Features

Antimicrobial

US: Antimicrobial additive inhibits the growth of stain and odor causing bacteria on this article. CDN: Contains CESA-MB8233 as a preservative for the protection of this article.

Fire Retardant

Includes fire retardant additive.

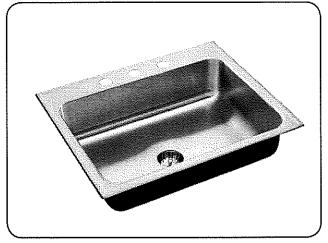
Commercial Hinge

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

S-1 SINK
JUST SLN-ADA-1921-A-GR STAINLESS STEEL SINK
T&S B-2866-05 FAUCET
Z8802XL-LRLK-PC SUPPLY AND STOP
Z8700PC-BX 1-1/2" CAST BRASS P-TRAP







6.85

CAPACITY MATTERS

Max I.D. sizing with straight sided, non-tapered bowl confluration. Fight corner radius design, Capacitybased on 6-1/2" bowl depth.

Seamless die-drawn construction of 18 gauge type 304 stainless steel. Interior and top surfaces satin blended No. 4 finish. Fully coated under-side insulates for sound and reduces condensation. Straight sided compartment with 1-3/4" radius corners provides greater capacity. Self-rimming top mount with Grip-Rim Plus with stainless steel mounting channels. Dintegra Drain integral drain system.



Integra Drain - seamlessly die drawn; eliminating seam in sink bottom, resulting in a hygienic surface. No additional parts or rings. Reduces installation issues and leak potential. Includes basket strainer and tailpiece. Flat grid available in place of basket, specify I-SSF option.

	CUTOUT DIMENSIONS							
3	Model Number	Front-to-Back	Left-to-Right					
f	SLN-1921-A-GR	18-1/4	20-1/4					

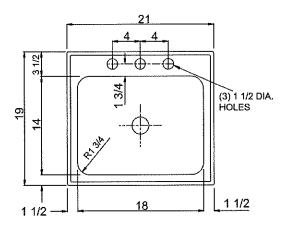
* Cutout dimensions shown (Front-to-Back) x (Left-to-Right) - corners may be square or up to 1/2" radius.

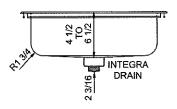
	APPROVED FOR MANUFACTURING
MODEL NO.:	SLN-ADA-1921-A-GR QTY:
JOB NAME: _	
TAG/ITEM: _	
CUSTOMER:	
SIGNATURE:	

SLN-ADA-1921-A-GR

INTEGRA GROUP

ADA COMPLIANT INTEGRA DRAIN - SINGLE BOWL LEDGE TYPE - 18 GA.





<u>To</u>	Be Specif Faucet H	<u>ied:</u> lole Punchine	ı.		
	(1) Hole C	entered			
	(2) Holes	on 4" centers			
	(3) Holes	on 4 "centers(illi	ustrated)		
	Alternate F Faucet Mo			Punching requir	· 61
DE	PTH - M	UST BE SPE	CIFIED;		N
	4-1/2" DEEP	5" DEEP	5-1/2" DEEP	6" DEEP	6-1/2" DEEP

	Product Options	
I-SSF	Integra St. Stl. Flat Grid	
-GB	Garbage disposal outlet ¹	

¹DISPOSER SINKS DISCLAIMER NOTE:

Just Integra Drain sinks are designed for compatible disposers manufactured by InSinkErator® which utilizes the Quick Lock® mounting system. Use of other disposers may void the Just warranty.

InSinkErator® and Quick Lock® are trademarks of Emerson Electric Co.







JUST MFG, COMPANY CONTINUES TO MAKE QUALITY AND FUNCTIONALITY A MARK OF THE JUST PRODUCT LINE, WE RESERVE THE RIGHT TO CHANGE PRODUCT INFORMATION WITHOUT NOTICE.

DIMENSIONS MAY CHANGE AND MAY BE SUBJECT TO CHANGE WITHOUT NOTICE. NO RESPONSIBILITY IS ASSUMED FOR USE OF SUPERCEDED OR VOIDED DATA. JUST MFG. CO. SINKS ARE MADE IN THE U.S.A. ALONG WITH FEATURES AND DIMENSIONS

JUST MANUFACTURING COMPANY		9233 KING STREET . FRANKLIN PARK . ILLINOIS . 60131-2111
PH: 847-678-5150 . FAX: 847-678-6817	•	E-MAIL: custserv@justmfg.com . www.justmfg.com

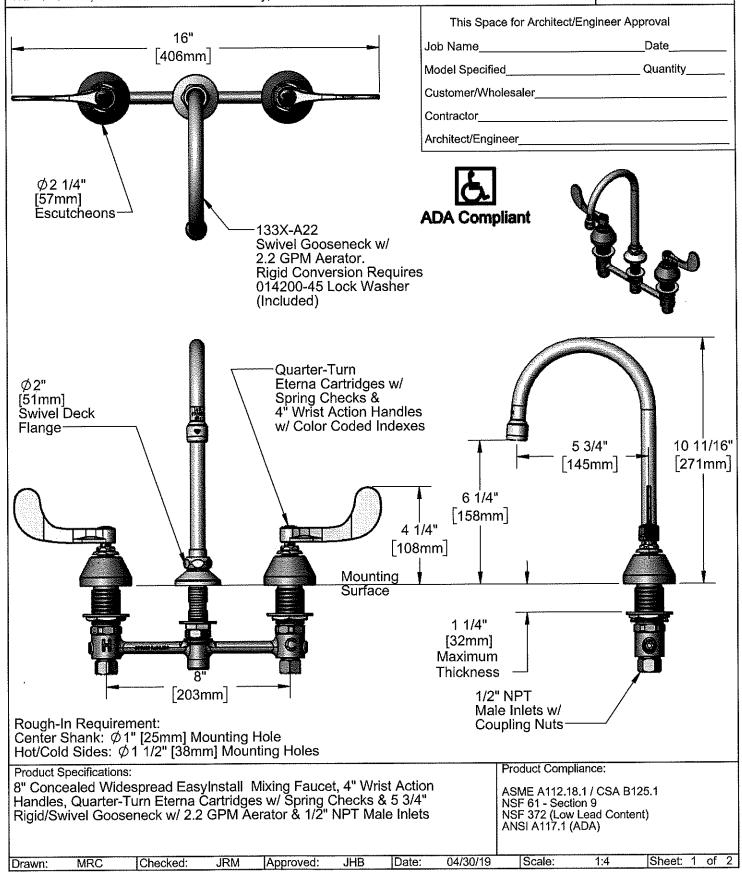
T&S BRASS AND BRONZE WORKS, INC. 2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690

Model No.

B-2866-05

Item No.

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





T&S BRASS AND BRONZE WORKS, INC.

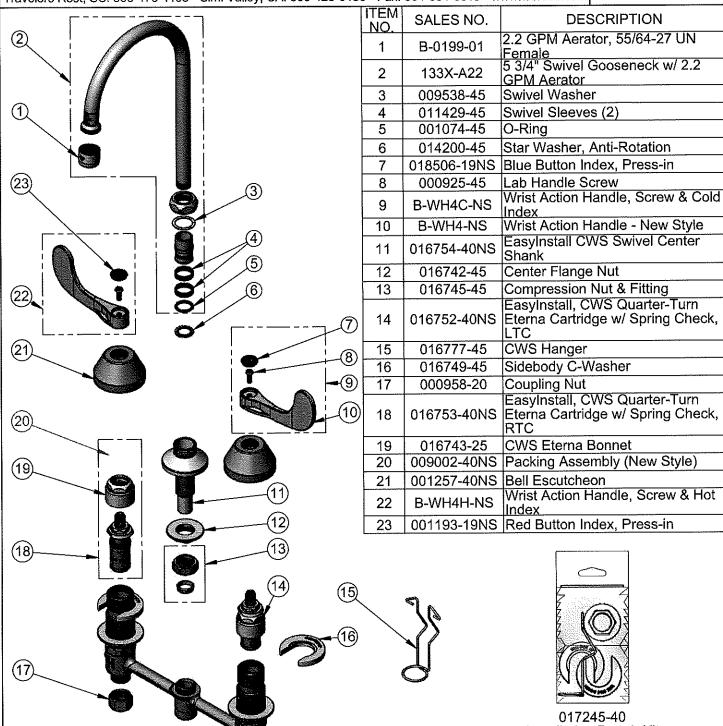
2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690

Model No.

B-2866-05

Item No.

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



Installation Repair Kit Includes #12, (2)#16, & #15

Product Specifications:

8" Concealed Widespread EasyInstall Mixing Faucet, 4" Wrist Action Handles, Quarter-Turn Eterna Cartridges w/ Spring Checks & 5 3/4" Rigid/Swivel Gooseneck w/ 2.2 GPM Aerator & 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)

NTS Sheet: 2 of 2 04/30/19 Scale: MRC Checked: JRM Approved: JHB Date: Drawn:





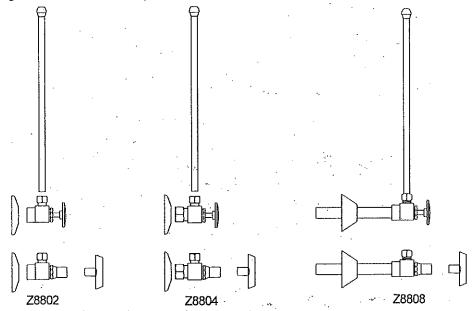
STANDARD STOP WITH FLEXIBLE LAVATORY SUPPLY

Z8802-XL-LR-PC TO Z8808-XL-LRLK-PC

TAG

Engineering Specification: Zurn Z8802-XL-LR-PC TO Z8808-XL-LRLK-PC Two Zurn chrome plated, solid brass angle stops with round wheel handles or loose key as specified, two 12"[305mm] flexible chrome plated copper lavatory risers complete with two chrome plated steel flanges. Z8808-XL-LR-PC and Z8808-XL-LRLK-PC include 5"[127mm] chrome plated copper extension tubes and deep bell steel flanges.

Zurn Lead Compliant* "XL" products are a line of durable, high quality brass faucets and fixtures that are designed and manufactured to comply with state laws and local codes that mandate lead content levels. Zurn "XL" products are manufactured with *not more than 0.25% lead content when used with respect to wetted surfaces of pipes and pipe fittings, plumbing fitting and fixtures: California Health & Safety Code § 116875; Vermont 9 VCA § 2470h.



:	PRODUCT		Nex.	MASTER	WEIGHT	CARTON
·	NUMBER	CONNECTIONS	EXT.	CARTON	LR	LRLK
•	Z8802-XL-LR-PC	1/2 [13] IPS x 3/8 [10]OD	-	25	24	
	Z8802-XL-LRLK-PC	1/2 [13] IPS x 3/8 [10] OD	•	25		25
	Z8804-XL-LR-PC	1/2 [13] NOM x 3/8 [10] OD	-	25	24	
	Z8804-XL-LRLK-PC	1/2 [13] NOM x 3/8 [10] OD	*	25		25
	Z8808-XL-LR-PC	1/2 [13] SWT x 3/8 [10] OD	5	25	28	
	Z8808-XL-LRLK-PC	1/2 [13] SWT x 3/8 [10] OD	. 5	25		33

SUFFIXES

- A	Single supply option	
 - C1	Standard Line Lock Shield Cap	
- CE	Chrome Plated, Cast Brass, Flange with sets	crew
- D	Chrome Plated Steel, Deep Bell Flange (Bell 7	ype)
 - WD	Wrought Brass, Deep Flange, (Bell Type)	
- XP	Cross Handle	
 - 15,	15[381] Supply Tube	
- 20	20[508] Supply Tube	
- 30	30[762] Supply Tube	
 20	20104 (1 Cumply Tube)	*DCO

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ZURN INDUSTRIES, LLC + COMMERCIAL BRASS OPERATION + 2640 SOUTH WORK STREET + FALCONER NY 14733 Phone: 1-800-997-3876 + Fax: 1-919-775-3541 + www.zurn.com

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



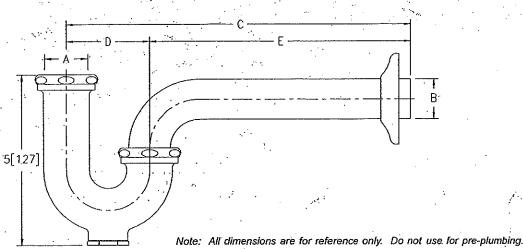
SEMI-CAST P-TRAPS WITH WALL BEND

Z8700-PC TO Z8708-PC

T	-۸	-	7
- 1	А	l	כ



Engineering Specification: Zurn Z8700-PC to Z8708-PC. – Chrome-plated cast brass (copper alloy) body P-trap with cleanout, tubular brass wall bend as specified, die-cast nuts, and shallow escutcheon with compression inlet.



			•		•				
-	PRODUČT	Α , .	B ′		D D	IMENSION	IS ·	MASTER	
	NUMBER	INLET in[mm]	OUTLET in[mm]	GAUGE*	C in[mm]	D in(mm)	E in[mm]	CARTON	CARTON [lbs]
-	Z8700-PC	1 1/4[32]	1 1/4[32]	17	10[254]	2 1/2[64]	7 1/2[191]	12	24
,]	Z8700-8-PC	1 1/4[32]	1 1/4[32]	17.	11[279]	2 1/2[64]	8 1/2[216]	12	24
	Z8700-15-PC	1 1/4[32]	1 1/4[32]	17	15[381]	2 1/2[64]	12.1/2[318	18	40
	Z8701-PC	1 1/4[32]	1 1/2[38]	17	10 1/2[267]	3[76]	7 1/2[191]	12	24
	Z8701-9-PC	1 1/4[32]	1 1/2[38]	17	12[305]	3[76]	9[229]	12	· 24
	Z8701-15-PC	1 1/4[32]	1 1/2[38]	17	15[381]	3[76]	12[305]	18	42
	≥Z8702-PC*	1.1/2[38]	1 1/2[38]	··· 17	10 1/2[267]	3[76]	7 1/2[191]	12	24
	Z8702-9-PC*	1 1/2[38].	1 1/2[38]	17	12[305]	3[76]	9[229]	12.	24
	Z8702-15-PC*	1 1/2[38]	1 1/2[38]	17	15[381]	3[76]	12[305]	18	42
.	Z8703B-PC**	1 1/2[38]	2[51]	17	12 1/2[318]	3 1/2[89]	9[229]	6	. 18 .
	Z8704B-PC**	2[51]	.2[51]	17	12 1/2[318]	3 1/2[89]	9[229]	6	18
	Z8706-PC	1 1/4[32]	1 1/4[32]	20	10[254]	2 1/2[64]	7 1/2[191]	12	24
	Z8707-PC	1 1/4[32]	1 1/2[38]	20	10 1/2[267]	3[76]	7 1/2[191]	12	24
	Z8708-PC*	1 1/2[38]	1 1/2[38]	20	10 1/2[267]	3[76]	7 1/2[191]	12	24

OPTIONALACCESSORIES

Suffix		Description
	-B	Brass Nuts
	BX	Box Escutcheon
	-CE	Cast Brass Escutcheon with Setscrew
	-D	Deep Escutcheon (Note = not available for Z8703B-PC and Z8704B-PC)
	~J	Metal to Metal Ground Joint Connection
	-WC	Waste Connections - Compression
	-15	15[381] C Dim. 1 1/4[32] and 1 1/2[38] Only
	-18	18[457] C Dim. 1 1/4[32] and 1 1/2[38] Only
* COMES	WITH	OPTIONAL 1-1/2" x 1-1/4" REDUCTION POLY-WASHER FOR INLET

^{**} SHIPPED WITH BRASS NUTS UNLESS OTHERWISE SPECIFIED

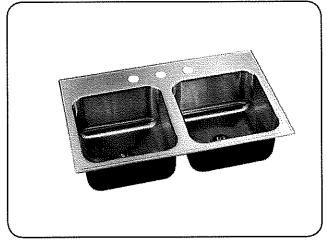
ZURN INDUSTRIES, LLC + COMMERCIAL BRASS OPERATION + 2640 SOUTH WORK STREET + FALCONER NY 14733 Phone: 1-800-997-3876 + Fax: 1-919-775-3541 + www.zurn.com

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

S-2 SINK
JUST DLN-ADA-2037-A-GR STAINLESS STEEL SINK
T&S B-2866-05 FAUCET
Z8802XL-LRLK-PC SUPPLY AND STOP
Z8700PC-BX 1-1/2" CAST BRASS P-TRAPS







CAPACITY MATTERS

Max I.D. sizing with straight sided, non-tapered bowl confiuration. Fight comer radius design, Capacitybased on 6-1/2" bowl depth.

SPECIFICATION

Seamless die-drawn construction of 18 gauge type 304, 18-8 stainless steel. Interior and top surfaces polished to a non-porous satin blended No. 4 finish. Smooth, fully coated underside insulates for sound, and reduces condensation. Straight-sided compartment with 1 $^{3}I_{*}^{*}$ radius corners provides greater capacity. Self-rimming top mount Grip-Rim Plus with stainless steel mounting channels. Integra-Drain integral drain system.



Integra Drain - seamlessly die drawn; eliminating seam in sink bottom, resulting in a hygienic surface. No additional parts or rings. Reduces installation issues and leak potential. Includes basket strainer and tailpiece. Flat grid available in place of basket, specify I-SSF option.

CUTOUT DIMENSIONS				
Model Number	Front-to-Back	Left-to-Right		
DLN-ADA-2037-A-GR	19-1/4	36-1/4		

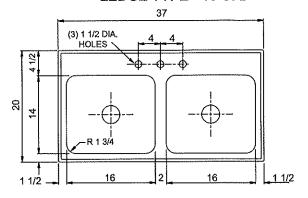
* Cutout dimensions shown (Front-to-Back) x (Left-to-Right) - corners may be square or up to 1/2" radius

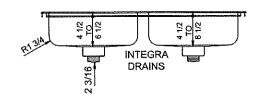
	APPROVED FOR MANUFACTURING
MODEL NO.:_	DLN-ADA-2037-A-GR QTY:
JOB NAME: _	
TAG/ITEM: _	
CUSTOMER:_	
SIGNATURE:	

DLN-ADA-2037-A-GR

INTEGRA GROUP

ADA COMPLIANT **INTEGRA DRAIN - DOUBLE BOWL LEDGE TYPE - 18 GA.**





FA	UCET PUNC	HING MUST	BE S	PECIFII	ED			
	(1) Hole - C	entered		Over 6	each	a bowl		
	(2) Holes - 4	" centers		Over	each	n partitior	ı (illu	strated)
	(3) holes - 4 (illustrated)	" centers						
	Alternate Pu	ınching:						
Faucet Model:								
	Punching R	equired:						
D€	PTH - MUS	ST BE SPEC	IFIED:					
	4-1/2" DEEP	5" DEEP		1/2" EP		6" DEEP		6-1/2" DEEP

Product Options					
I-SSF	Integra St. Stl. Flat Grid				
-GB	Garbage disposal outlet ¹	Left Bowl	Right Bowl		

¹DISPOSER SINKS DISCLAIMER NOTE:

Just Integra Drain sinks are designed for compatible disposers manufactured by InSinkErator® which utilizes the Quick Lock® mounting system. Use of other disposers may void the Just warranty.

InSinkErator® and Quick Lock® are trademarks of Emerson Electric Co.







JUST MFG. COMPANY CONTINUES TO MAKE QUALITY AND FUNCTIONALITY A MARK OF THE JUST PRODUCT LINE. WE RESERVE THE RIGHT TO CHANGE PRODUCT INFORMATION WITHOUT NOTICE. DIMENSIONS MAY CHANGE AND MAY BE SUBJECT TO CHANGE WITHOUT NOTICE. NO RESPONSIBILITY IS ASSUMED FOR USE OF SUPERCEDED OR VOIDED DATA. JUST MFG, CO, SINKS ARE MADE IN THE U.S.A. ALONG WITH FEATURES AND DIMENSIONS.

PH: 847-678-5150 . FAX: 847-678-6817 . E-MAIL: custserv@justmfg.com . www.justmfg.com	

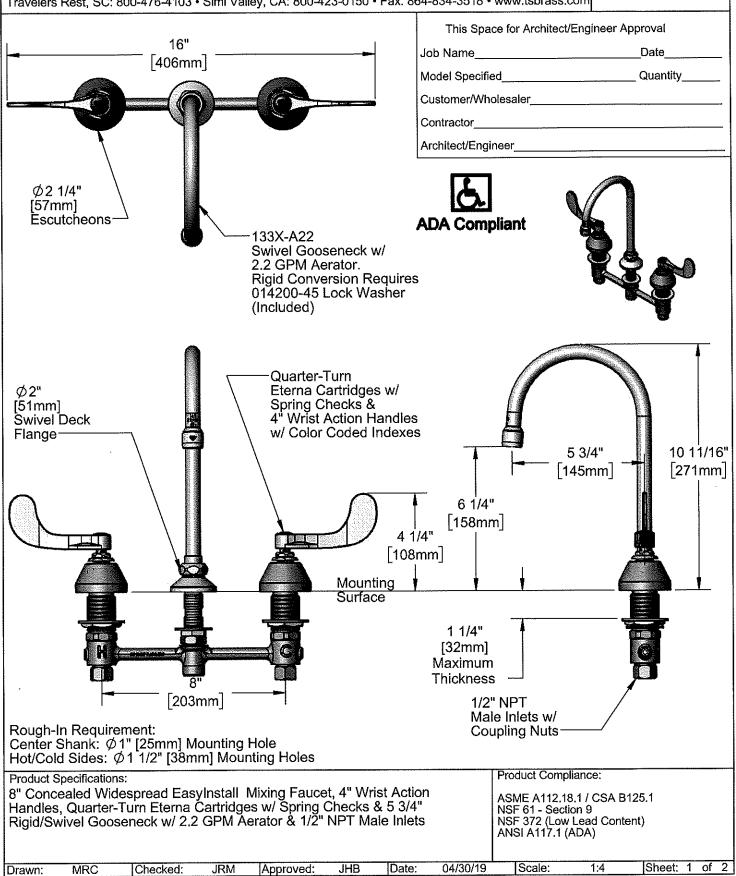
T&S BRASS AND BRONZE WORKS, INC. 2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690

Model No.

B-2866-05

Item No.

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





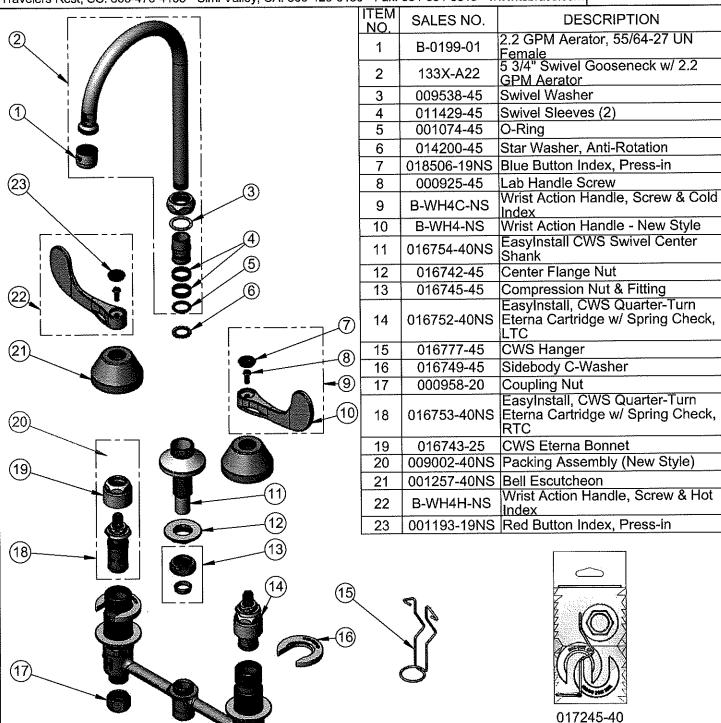
T&S BRASS AND BRONZE WORKS, INC.

2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690 Model No.

B-2866-05

Item No.

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



Product Specifications:

8" Concealed Widespread EasyInstall Mixing Faucet, 4" Wrist Action Handles, Quarter-Turn Eterna Cartridges w/ Spring Checks & 5 3/4" Rigid/Swivel Gooseneck w/ 2.2 GPM Aerator & 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)

Installation Repair Kit Includes #12, (2)#16, & #15

Drawn: MRC Checked: JRM Approved: JHB Date: 04/30/19 Scale: NTS Sheet: 2 of 2





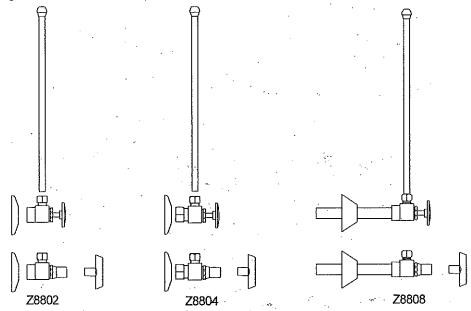
STANDARD STOP WITH FLEXIBLE LAVATORY SUPPLY

Z8802-XL-LR-PC TO Z8808-XL-LRLK-PC

TAG

Engineering Specification: Zurn Z8802-XL-LR-PC TO Z8808-XL-LRLK-PC Two Zurn chrome plated, solid brass angle stops with round wheel handles or loose key as specified, two 12"[305mm] flexible chrome plated copper lavatory risers complete with two chrome plated steel flanges. Z8808-XL-LR-PC and Z8808-XL-LRLK-PC include 5"[127mm] chrome plated copper extension tubes and deep bell steel flanges.

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PRODUCT NUMBER	CONNECTIONS	EXT.	MASTER CARTON	WEIGHT LR	CARTON LRLK
 Z8802-XL-LR-PC	1/2 [13] IPS x 3/8 [10]OD		25	24	
Z8802-XL-LRLK-PC	1/2 [13] IPS x 3/8 [10] OD	-	25		25
Z8804-XL-LR-PC	1/2 [13] NOM x 3/8 [10] OD	-	25	24	
Z8804-XL-LRLK-PC	1/2 [13] NOM x 3/8 [10] OD	-	25		25
Z8808-XL-LR-PC	, 1/2 [13] SWT x 3/8 [10] OD	5	25	28	
Z8808-XL-LRLK-PC	1/2 [13] SWT x 3/8 [10] OD	. 5	25		33

SUFFIXES *

 - A	Single supply option	
 - C1	Standard Line Lock Shield Cap	
 - CE	Chrome Plated, Cast Brass, Flange with setsor	ew
- D	Chrome Plated Steel, Deep Bell Flange (Bell Ty	pe)
 - WD	Wrought Brass, Deep Flange, (Bell Type)	
- XP	Cross Handle	
- 15	15[381] Supply Tube	
 - 20	20[508] Supply Tube	
 - 30	30[762] Supply Tube	
 - 36	36[914] Supply Tube *	REGI

*REGULARLY FURNISHED UNLESS OTHERWISE SPECIFIED

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Date: 5/4/11

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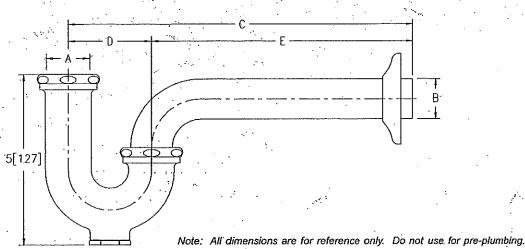
SEMI-CAST P-TRAPS WITH WALL BEND

Z8700-PC TO Z8708-PC

TAG



Engineering Specification: Zurn Z8700-PC to Z8708-PC. - Chrome-plated cast brass (copper alloy) body P-trap with cleanout, tubular brass wall bend as specified, die-cast nuts, and shallow escutcheon with compression inlet.



		•	•			-	-		
	PRODUCT	. A .	В		D	<u>IMENSIÓN</u>	IS ·	MASTER	
	NUMBER	INLET in[mm]	OUTLET in [mm]	GAUGE 1	Cin[mm]	D in[mm]	E in[mm]	CARTON	CARTON [lbs]
	Z8700-PC	1 1/4[32]	1 1/4[32]	17	10[254]	2 1/2[64]	7 1/2[191]	12	24
	Z8700-8-PC	1 1/4[32]	1 1/4[32]	17	11[279]	2 1/2[64]	8 1/2[216]	12	24
	Z8700-15-PC	1 1/4[32]	1 1/4[32]	17	15[381]	2 1/2[64]	12.1/2[318]	18	40
	Z8701-PC	1 1/4[32]	1 1/2[38]	17	10 1/2[267]	3[76]	7 1/2[191]	12	- 24
	Z8701-9-PC	1 1/4[32]	1 1/2[38]	17	12[305]	3[76]	9[229]	12	· 24
Ì	Z8701-15-PC	1 1/4[32]	1 1/2[38]	17	15[381]	3[76]	12[305]	18	42 .
	Z8702-PC*	1.1/2[38]	1 1/2[38]	···· 17	10 1/2[267]	3[76]	7 1/2[191]	12	24
	Z8702-9-PC*	1 1/2[38]	1 1/2[38] 🕌	17	§ 12[305]	3[76]	9[229]	12.	24
	Z8702-15-PC*	1 1/2[38]	1 1/2[38]	1.7	15[381]	3[76]	12[305]	18	42
	Z8703B-PC**	1 1/2[38]	2[51]	17	12 1/2[318]	3 1/2[89]	9[229]	6	· 18 <u>.</u> .
	Z8704B-PC**	2[51]	2[51]	17.	12 1/2[318]	3 1/2[89]	9[229]	6	18
•	Z8706-PC	1 1/4[32]	1 1/4[32]	20	10[254]	2 1/2[64]	7 1/2[191]	12	24
	Z8707-PC	1 1/4[32]	1 1/2[38]	-20	10 1/2[267]	3[76]	7 1/2[191]	12	24
	Z8708-PC*	1 1/2[38]	1 1/2[38]	20	10 1/2[267]	3[76]	7 1/2[191]	12	24

OPTIONAL ACCESSORIES

Suffix	Description		
🦡 -В	Brass Nuts		
BX	Box Escutcheon		
CE	Cast Brass Escutcheon with Setscrew		
-D	Deep Escutcheon (Note = not available for Z8703B-PC and Z8704B-PC)		
	Metal to Metal Ground Joint Connection		
-WC	Waste Connections - Compression		
-15	15[381] C Dim. 1 1/4[32] and 1 1/2[38] Only		
-18	18[457] C Dim. 1 1/4[32] and 1 1/2[38] Only		

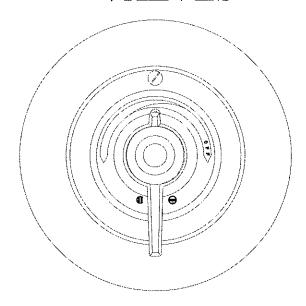
ZURN INDUSTRIES, LLC • COMMERCIAL BRASS OPERATION • 2640 SOUTH WORK STREET • FALCONER NY 14733 Phone: 1-800-997-3876 • Fax: 1-919-775-3541 • www.zurn.com

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

^{**} SHIPPED WITH BRASS NUTS UNLESS OTHERWISE SPECIFIED

SH-1 SHOWER VALVE ONLY LEONARD 4500-63002-1.5 PRESSURE BALANCED SHOWER VALVE WITH HAND SHOWER ASSEMBLY

PRESSURE ACTUATED SHOWER VALVES



4500 FLOW CAPACITIES PSI BAR 50 3.4 3.1 45 40 2.8 2.1 30 20 1.4 .7 10 5 .3 **GPM** 0 2 6 15 23 I/min



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.P65Warnings.Ca.gov

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

*NOTE: A limit stop, set for 110°F (43°C), is simply a mechanical setting to prevent excessive handle rotation. If incoming water is hotter than 135°F (57°C), the temperature of the factory test, the valve when turned to full HOT may deliver water in excess of 110°F and the limit stop MUST BE RESET BY THE INSTALLER

AQUATROL® 4500



1/2" Inlets and Outlet

SHOWER OR TUB/SHOWER

4500 AQUATROL® Pressure Actuated mixer

- Durable stainless steel balancing piston to equalize hot and cold supply pressures.
- Built-in shutoff for single handle operation
- Removable one piece upper and lower valve seat
- Internal parts of bronze and stainless steel
- Cast wall flange and lever handle, polished chrome plated
- Maximum operating pressure: 125 PSIG (860KPA)
- Adjustable high temperature limit stop set for 110°F* (43°C)
- Color coded dial, Off through Hot, with directional indicators
- Angle checkstops, copper tube connection
- Plasterguard/thin wall mounting bracket included.
- Minimum flow 1.5 GPM (5.7 l/min)

Valve is ASSE 1016 – Type P Certified Valve is CSA B.125-16 – Type P Certified



Options:

VP vandal proof scre	ews
	OUTLET
	3"
	∞₁76mm
	A
	' /
0	WALL THE CONTRACTOR OF THE CON
OPI	ENING _ []
	6"
	52mm
	5/8"
	16mm
	INLET V
4 1/2"	2 3/8"
114mm	60mm

Job # _	
Arch/Eng	
Contractor _	

Engineer's	Approval
------------	----------



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

WALL GRAB BARS & HAND SHOWERS SETS



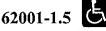


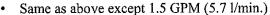
24" (61 cm) ADA wall grab bar, stainless steel, 1.5" (38mm) outside diameter, concealed screw mounting system (mounting hardware included)

Slide mechanism operable by left hand, right hand, or closed first, 2.65" (67mm) lever, meets Handicapped Accessibility Standard of less than 5lb handle operating force and can swivel to ensure easy reach

Withstands 1000 lb pull (NOTE: Grab Bar must be securely attached to wall or backing to provide safety)

Wall Grab bar can be securely mounted at 90 degree angle
Hand spray with non-positive push button shut-off
Braided stainless steel flexible and extended out from 60" to 84"
2 wall hooks
Double check valve backflow preventer
Supply elbow and flange
2.5 GPM (9.5 l/min.) max. flow rate











• Same as above except 36" grab bar (91 cm)







Same as above except 36" grab bar (91 cm) & 1.5 GPM (5.7 l/min.)

To ter Senam

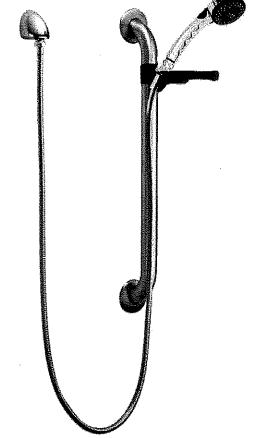
OPTIONAL (fits all models):

SUFFIX QD - Quick connector set



1360 Elmwood Avenue, Cranston, RI 02910 USA Phone: 401.461.1200 Fax: 401.941.5310

Email: info@leonardvalve.com
WEB: http://www.leonardvalve.com

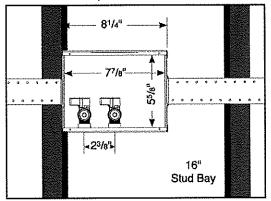


WB-1 WASHER BOX GUY GRAY MWB-16 WASHER BOX WITH VALVES



REVERSIBLE DRAIN WHITE POWDER COATED WMOB with Quarter Turn Valves

Left hand Drain Option



Specifications:

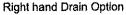
Furnish and install reversible drain white powder coated econo metal washing machine outlet box with quarter turn valves. Unit shall be Guy Gray product code checked below as manufactured by IPS Corporation.

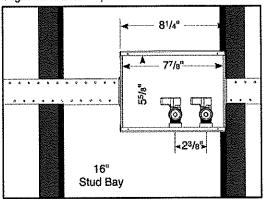
Box Material:

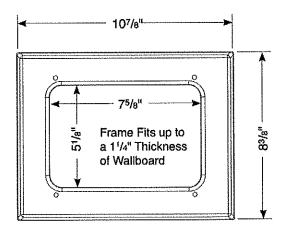
White Powder Coat on Cold Rolled Steel Finish 20 gauge box with 20 gauge faceplate

Valve & Drain Options:

Qtr. Turn Valve with MIP/Sweat, CPVC, PEX or Wirsbo connection. 2" Slipnut, PVC or ABS drain. Valves comply with ASME A112.18.1.







		ltem#	Product Description	Model#	Quantity
		82112	Reversible Qtr Turn Valves* - 1/2" Sweat Conx., Unassembled	MWB-3	5
		82113	Reversible Qtr Turn Valves* - 1/2" Sweat Conx Cont. Pack, Unassembled	MWB-4	5
		82114	Reversible Qtr Turn Valves* - 1/2" CPVC Conx., Unassembled	MWB-5	5
		82115	Reversible Qtr Turn Valves* - 1/2" CPVC Conx Cont. Pack, Unassembled	MWB-6	5
	AGAL ST	82148	Reversible Qtr Turn Hammer Arrester Valves - 1/2" Sweat Conx., Unassembled	MWB-16	
		82152	Reversible Qtr Turn Valves - 1/2" Sweat Conx./PVC Drain Conx., Unassembled	MWB-17	5
		82153	Reversible Qtr Turn Valves - 1/2" Sweat Conx./ABS Drain Conx., Unassembled	MWB-18	5
		82165	1/2" Qtr Turn PEX Valve - 2" ABS Drain Conx., Unassembled	MWB25	5
		82184	1/2" Qtr Turn Wirsbo® Valves - 2" Slipnut Drain Kit, Unassembled	MWB23	5
		82314	Box w/o valves, Unassembled	MWBRLV	5



WCO WALL CLEANOUT COVER ZURN Z1469 STAINLESS STEEL COVER WITH SCREW

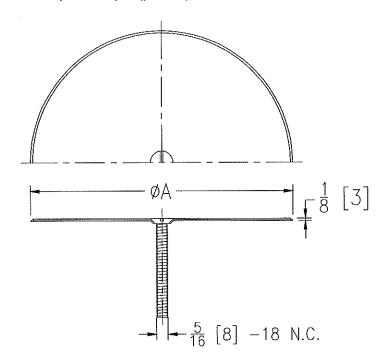


Z1469ROUND ACCESS COVER

SPECIFICATION SHEET

TAG _____

Dimensional Data (inches and [mm]) are Subject to Manufacturing Tolerances and Change Without Notice



Product Designation	A Cover Dia. IN [mm]	Nominal Pipe Size	Approx. Wt. Lbs. [kg]
-4	4 [102]	2, 3, 3-1/2 [51, 76, 89]	1 [.5]
-5	5 [127]	2, 3, 3-1/2 [51, 76, 89]	1 [.5]
-7	7 [178]	4, 5 [102, 127]	2 [1]
-9	9 [229]	6 [152]	3 [1.5]
-11	11 [279]	8 [203]	4 [2]

ENGINEERING SPECIFICATION: ZURN ZS1469 Round stainless steel access cover complete with securing screw.

OPTIONS (Check/specify appropriate options)

PREFIXES

ZAB Bronze Polished Cover

Stainless Steel Polished Cover*

SUFFIXES

-SL :

Screw Longer Than 3-1/2 [89]

-\

Vandal-ProofScrew

* Regularly furnished unless otherwise specified.

Zurn Industries, LLC | Specification Drainage Operation 1801 Pittsburgh Avenue, Erie, PA U.S.A. 16502 · Ph. 855-663-9876, Fax 814-454-7929 In Canada | Zurn Industries Limited

3544 Nashua Drive, Mississauga, Ontario L4V 1L2 · Ph. 905-405-8272, Fax 905-405-1292

www.zurn.com

Rev. F

Date: 07/26/16

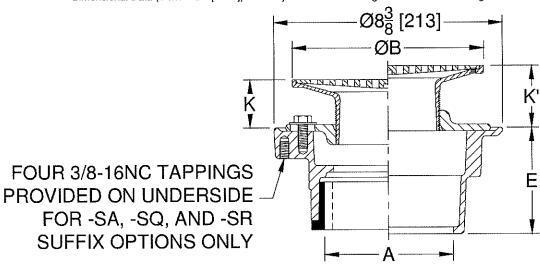
C.N. No. 134852

Prod. | Dwg. No. Z1469

FD-1 FLOOR DRAIN ZURN ZN415-B5" CAST IRON FLOOR DRAIN WITH 5" N.B. STRAINER

TAG

Dimensional Data (inches and [mm]) are Subject to Manufacturing Tolerances and Change Without Notice



[Approx.	Strainer					
	A B Strainer K			K'		Wt. Lbs.	Open Area	
	Pipe Size	Dia.	Min.	Max.	Min.	Max.	[kg]	Sq. In. [cm²]
4	2,3 [51,76]	5 [127]	1 [25]	1-1/2 [38]	1-3/32 [28]	2-1/4 [57]	11 [5]	6-1/4 [40]
Ì	2,3,4 [51,76,102]	6 [152]	1 [25]	1-25/32 [45]	1-13/32 [36]	2-17/32 [64]	13 [6]	9 [58]
ı	2,3,4 [51,76,102]	7 [178]	1 [25]	2-1/8 [54]	1-23/32 [44]	2-7/8 [73]	14 [6]	12 [77]
ı	3,4 [76,102]	8 [203]	1-5/32 [30]	2-1/8 [54]	1-3/4 [44]	2-7/8 [73]	16 [7]	19 [123]
1	6 [152]	8 [203]	1-5/32 [30]	2-1/8 [54]	1-3/4 [44]	2-7/8 [73]	18 [8]	19 [123]
Ì	6 [152]	10 [254]	1-7/16 [37]	2-1/2 [64]	2 [51]	3-1/4 [83]	22 [10]	23 [148]

ENGINEERING SPECIFICATION: ZURN ZN415B

Floor and shower drain, Dura-Coated cast iron body with bottom outlet, combination invertible membrane clamp and adjustable collar with seepage slots and "TYPE B" polished nickel bronze, light-duty heel proof strainer.

OPTIONS (Check/specify appropriate options)

PIPE SIZE 2,3,4 [51,76,102] 2 [51] 3 [76] 4 [102] 6 [152] 2,3,4 [51,76,102] 2,3,4 [51,76,102] PREFIXES ZB D.C.C.I. Body Assembly w/ Polished ZN D.C.C.I. Body Assembly w/ Polished	IP Three IP Three IP Three IP Three IP Three IP Three IP NH No-NL Nectors	de Caulk eaded eaded eaded eaded Hub	'E' BODY HT. DIM. 4-3/16 [106] 2-7/16 [62] 2-3/4 [70] 2-13/16 [71] 2-7/8 [73] 3-13/16 [97] 3-7/8 [98]
SUFFIXES -AR Acid Resisting Epoxy Coated Cast Iro -CP Chrome-Plated Bronze Top -G Galvanized Cast Iron -HD Heavy-Duty Slotted Grate (ZN 5,6 [12 -OF Oval Funnel (Z329-7) (7, 8, 10 [178, 2 Strainers Only) -P Trap Primer Connection (Specify 1/2 [13] -PC Protective Cover -SA Stabilizer Assembly (See Z1035)	7,152] Sizes Only) 203, 254]	-SR -TC -U -V -V -VP -Y -4 -90	Stabilizer Ring Neo-Loc Test Cap Gasket (2,3,4 [51,76,102] NL Outlet Only) 1-3 [25-76] High Extension Adapter Backwater Valve Vandal-Proof Secured Top Sediment Bucket 4 [102] Diameter Funnel (Z328) 90° Threaded Side Outlet Body Assembly

* Regularly furnished unless otherwise specified.

-SQ Stabilizer Q-Deck (See Z1035-Q)

Zurn Industries, LLC | Specification Drainage Operation 1801 Pittsburgh Avenue, Erie, PA U.S.A. 16502 · Ph. 855-663-9876, Fax 814-454-7929 In Canada | Zurn Industries | Imited

In Canada | Zurn Industries Limited 3544 Nashua Drive, Mississauga, Ontario L4V 1L2 - Ph. 905-405-8272, Fax 905-405-1292

Rev. W Date: 09/27/19 C.N. No. 142019 Prod. | Dwg. No. Z415B

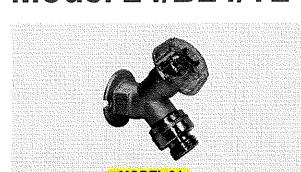
(2,3 [51,76] Only)

HB-1 HOSE BIBB WOODFORD 24P 3/4" CHROME HOSE BIBB WITH VACUUM BREAKER

The Model 24 and B24 are anti-siphon, vacuum breaker protected wall faucets designed for irrigation purposes in mild climate areas. The Model B24 is enclosed in a flush mounted wall box. Both models are designed to blend with modern architecture for installation on or in homes, service stations, churches, motels, drivein restaurants, etc. The Model Y24 is designed to be used on a stand pipe in the lawn and garden, etc.

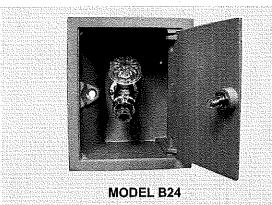
Anti-Siphon Wall Faucets Model 24/B24/Y24

WOODFORD

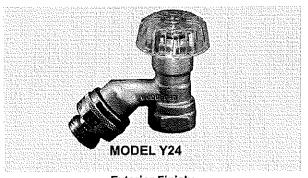


Exterior Finish: Standard - Chrome (CH)

Optional-Rough Brass (BR) or Polished Chrome (PC)



Exterior Finish: Standard - Chrome (CH) Optional- Rough Brass (BR) or Polished Brass (PB) Other Options: Anodized Aluminum Box (AL)



Exterior Finish: Standard - Chrome (CH) Optional- Rough Brass (BR) or Polished Chrome (PC)

SPECIFICATIONS:

VACUUM BREAKER - ANTI-SIPHON:

- NIDEL® Model 34HF with ¾ inch male hose thread
- · ASSE Standard 1011 approved
- IAPMO® listed
- Canadian Standards Association

EPDM PACKING: Prevents leaking.

PACKING NUT: Adjustable brass nut with deep stem

guard.

VALVE SEAT: Standard "O" size washer.

HANDLES: Furnished with polycarbonate wheel handle

and loose tee key.

Optional: Metal wheel handle.

INLETS: Model 24 as shown below.

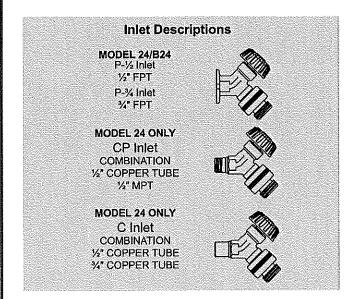
Model B24: 24P- 1/2 or 24P 3/4 only.

Model Y24: 3/4 " FPT.

MAX PRESSURE: 125 p.s.i. MAX TEMPERATURE: 120° F SHIPPING WEIGHT: (per unit) MODEL 24 & Y24: 1 lb

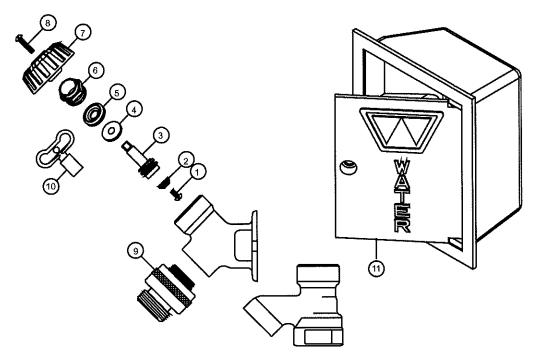
MODEL B24: 13 lbs (brass or chrome box)

6 lbs (aluminum box)

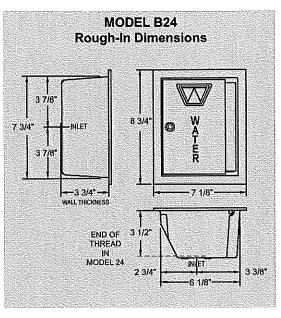


For Installation / Troubleshooting Instructions go to www.woodfordmfg.com or call 1-800-621-6032





l.	MODEL 24	I/B24/Y24 PARTS LIST
ITEM	PART#	DESCRIPTION
	30009	Washer Screw
2	30008	Washer
3	30104	Operating Stem
4	30105	Packing Support Washer
5	30247	EPDM Packing
6	30109	Packing Nut - Chrome
	30107	Packing Nut - Brass
7	30120	Wheel Handle - Clear
	30233	Wheel Handle - Tan
8	30121	Handle Screw - Nickel
	30002	Handle Screw - Brass
9	34HF-CH	34HF Vacuum Breaker - Chrome
75. TO 100 HB	34HF-BR	34HF Vacuum Breaker - Brass
10	50009	Tee Key
11	B24BX	Box/Door Assembly - Chrome
CATALON CONTRACTOR CONTRACTOR	B24BX-BR	Box/Door Assembly - Brass
	B24BX-PB	Box/Door Assembly - Polished Brass
***************************************	B24BX-AL	Box/Door Assembly - Anodized Aluminum
	RK-24	Chrome Repair Kit (Includes items 1-8)
	RK-H34	Brass Repair Kit (Includes items 1-8)



Manufactured under one or more of the following patents: U.S. Patents: 3,414,001; 3,543,786; 4,178,956; 4,316,481; D216,790; D216,791; D277,365; D277,366; Canada Patents: 822,458; 852,529; 865,995

For more information contact...

WOODFORD MANUFACTURING COMPANY

2121 Waynoka Road, Colorado Springs, Colorado 80915 • Phone: (800) 621-6032 • Fax: (800) 765-4115

To view our complete product line visit: www.woodfordmfg.com or email: sales@woodfordmfg.com

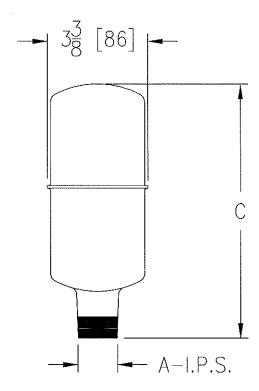
A Division Of WCM Industries, Inc.

WATER HAMMER ARRESTORS ZURN Z1700 STAINLESS STEEL WATER HAMMER ARRESTOR

SPECI	FICATION	SHEET
--------------	-----------------	-------

TAG ____

Dimensional Data (inches and [mm]) are Subject to Manufacturing Tolerances and Change Without Notice



Size	A C Inches [mm]		Approx. Wt. Lbs. [kg]	Fixture Unit Capacity	
100	3/4 [19]	3-1/2 [90]	1 [.5]	1-11	
200	3/4 [19]	3-1/2 [90]	1-1/2 [.7]	12-32	
300	1 [25]	4-1/2 [114]	1-3/4 [.8]	33-60	
400	1 [25]	6-5/8 [168]	2-3/4 [1.2]	61-113	
500	1 [25]	7-1/2 [191]	3-1/4 [1.5]	114-154	
600	1 [25]	8-1/2 [216]	3-3/4 [1.7]	155-330	

Pressure and Temperature Requirements: Maximum Working Pressure: 125 psi [862 Kpa] Maximum Static Pressure: 250 psi [1724 Kpa]

Operating Temperature Range: 33 °F to 300 °F [1 °C to 149 °C]

ENGINEERING SPECIFICATION: ZURN Z1700

Shoktrol Water Hammer Arrestors are regularly furnished in all stainless steel construction. Pipe threads are accurately machined to assure tight connection. 3/4" [19mm] male I.P.S. inlet is standard for the 100 and 200 size units, while 1" [25mm] male I.P.S, inlet is standard for sizes 300 thru 600.

All sizes of Zurn Z1700 Shoktrol Water Hammer Arrestors comply with the following specifications:

PDI WH-201 ANSI A112,26,1M

ASSE 1010

Where required in piping systems, properly sized water hammer arrestors shall be ZURN Z1700 (specify size) with nesting type bellows contained within a casing having sufficient displacement volume to dissipate the calculated kinetic energy generated, in the piping system. Both casing and bellows constructed of Type 304 stainless steel.

Zurn Industries, LLC | Specification Drainage Operation 1801 Pittsburgh Avenue, Erie, PA U.S.A. 16502 Ph. 855-663-9876, Fax 814-454-7929 In Canada | Zurn Industries Limited

3544 Nashua Drive, Mississauga, Ontario L4V 1L2 · Ph. 905-405-8272, Fax 905-405-1292

Rev. D Date: 11/10/2016 C.N. No. 135481 Prod. | Dwg. No. Z1700

^{*} Regularly furnished unless otherwise specified.



Quality People. Building Solutions.

Comfort Systems USA (Arkansas), Inc. P.O. Box 16620 Little Rock, AR 72231 Phone 501-834-3320 Fax 501-834-5416

Date: 5/5/2022

Return Request: 5/15/2022

Project: EJ Towbin Healthcare Center

Supplier: LR Winnelson **Manufacturer:** Various

Submittal: Plumbing Fixtures (Showers) Re-Submittal #1

Submittal Number: 22 40 00-02

Drawing # and Installation: Plumbing Drawings

ARCHITECT

Johnson Danforth & Associates 2200 N. Rodney Parham, Suite 210 Little Rock, AR 72212 501-404-4811

GENERAL CONTRACTOR

CDI Contractors 3000 Cantrell Re. Little Rock, AR 72202 501-666-4300

ENGINEER

Insight Engineering 201 S. Chester, Suite B Little Rock, AR 72201 501-237-3077

MECHANICAL SUBCONTRACTOR

Comfort Systems USA (Arkansas), Inc. 9924 Landers Rd. N. Little Rock, AR 72117 501-834-3320

Notes:			

CSUSA PROJECT NO. 22-873

dpierce@comfortar.com

EJ TOWBIN HEALTHCARE CENTER 3H RENOVATION NORTH LITTLE ROCK, ARKANSAS

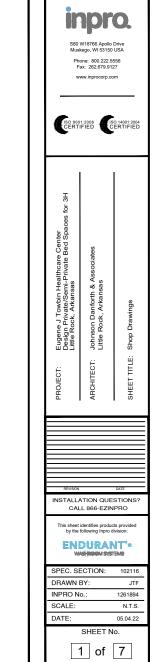


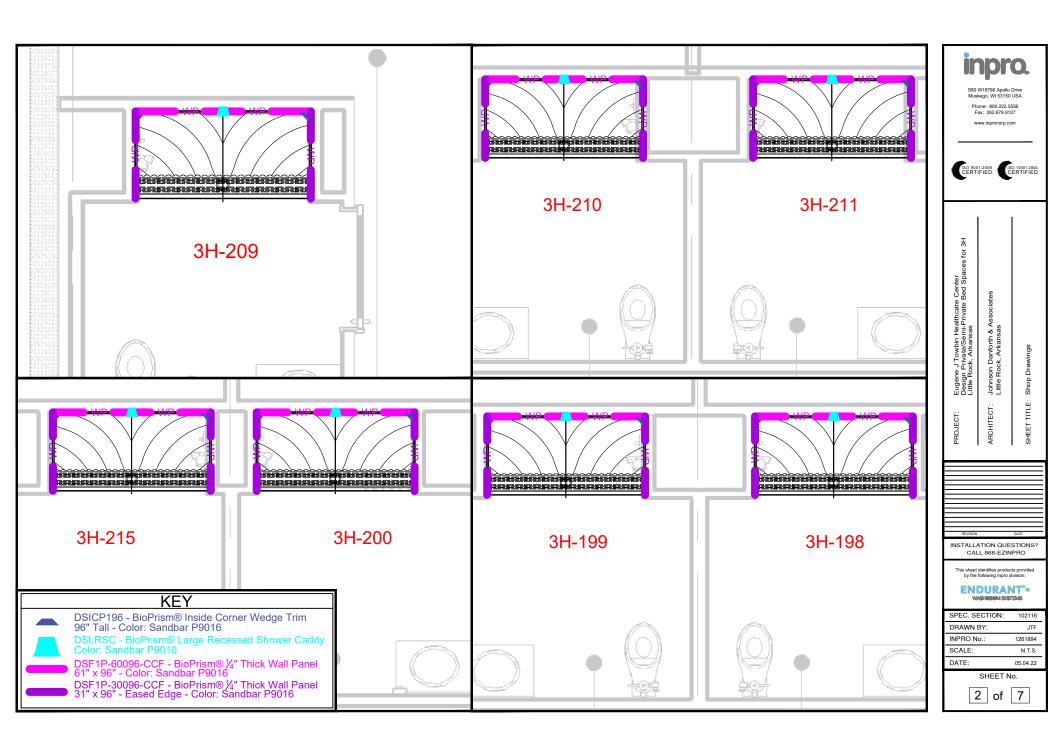
SHOP DRAWINGS FOR

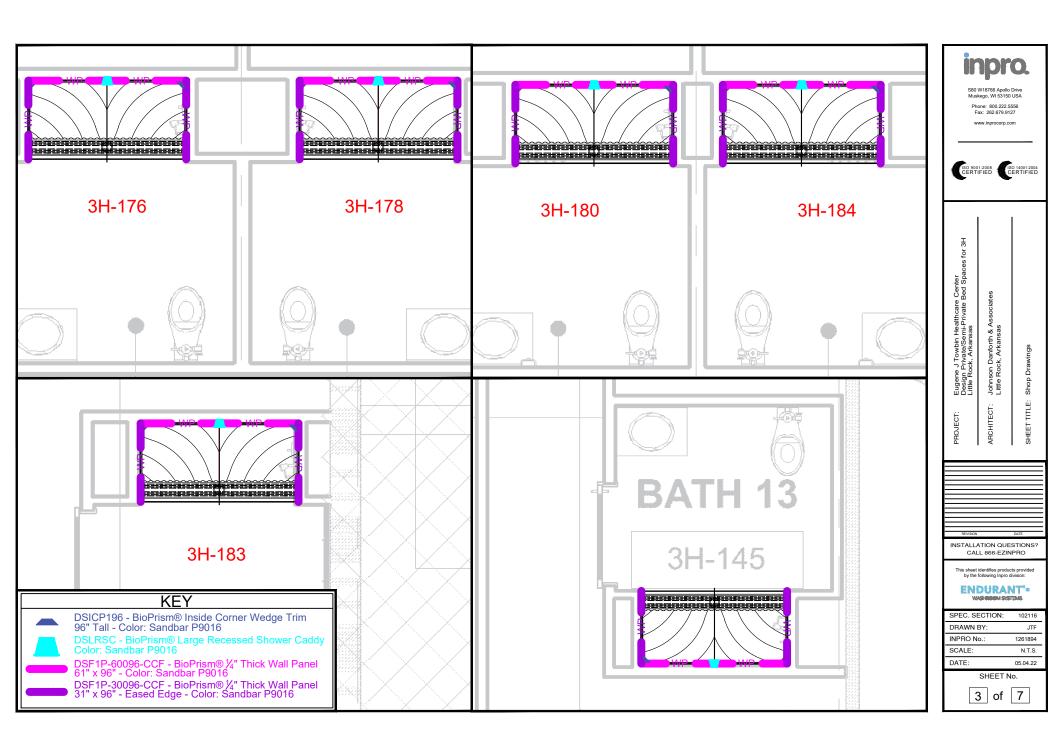
Eugene J Towbin Healthcare Center - Design Private/Semi-Private Bed Spaces for 3H

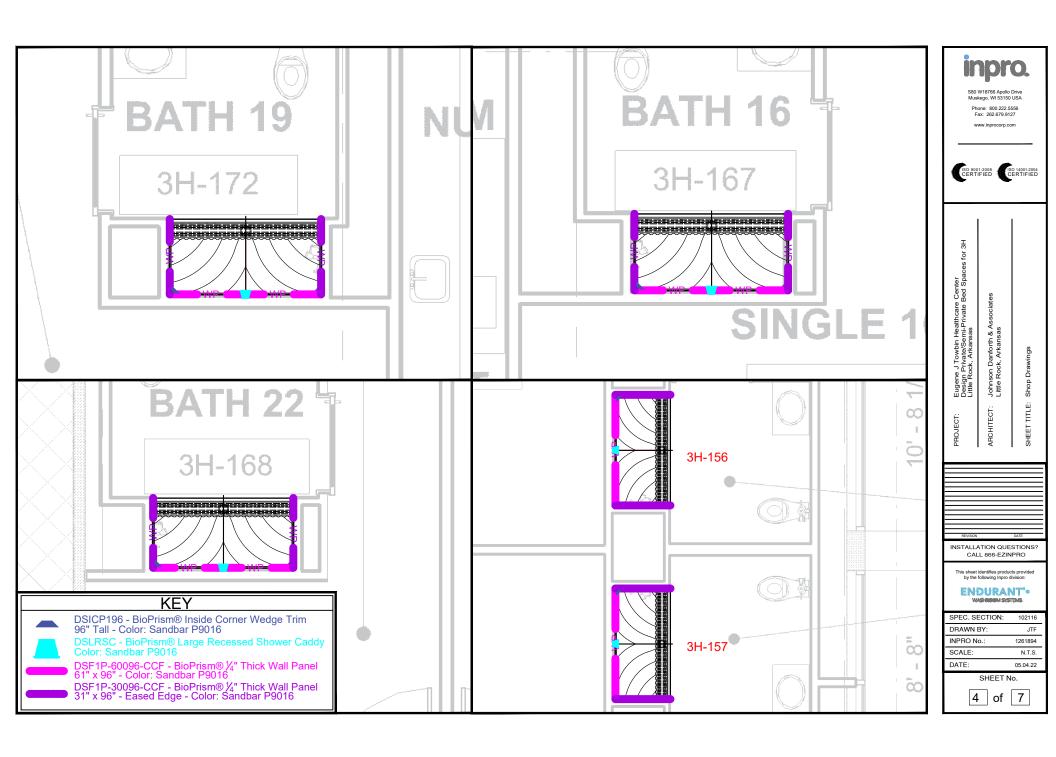
Upon approval of submittal documents, customer to complete appropriate order forms with field verified dimensions and quantities before placing order.

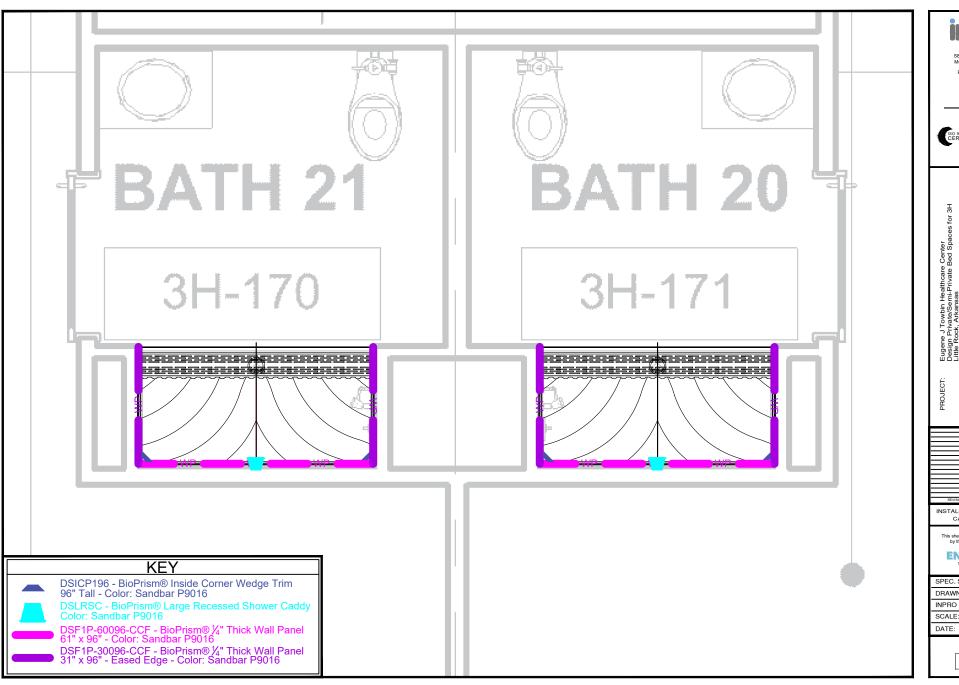
**Dimensions on shop drawings are product dimensions and NOT rough opening dimensions.













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