

## SHOP DRAWING TRANSMITTAL

To: Daniel Cusimano Architect Inc.  
185 Bridgeland Ave.  
Suite 107  
Toronto, ON M6A 1Y7

Att: Stacey Melville

Project: **Shopper's Drug Mart #9685**  
1950 Fischer-Hallman Road, Building 200  
Kitchener, Ontario N2R 1R3

From: Tajinder Singh  
Date: October 25, 2024  
File No: 7298.pt

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We have reviewed the attached contractor's equipment shop drawings for general conformity with the design documents and are forwarding them to you for your use in association with the above noted project.

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The documents are sent by: Courier • Hand • Pick-up • Facsimile • **E-Mail**

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<u>Qty</u>	<u>Shop Drawings</u>	<u>Notes</u>
1	Plumbing Fixtures	<p>Reviewed HWC, WC, DS-2, HS, MS, WH-1, WH-2, ET-1 &amp; ET-2: No Comments</p> <p>Handicapped lavatory <b>HL</b> &amp; Lavatory <b>L</b>: Ensure Sloan Model SFP-46 (vandal-resistant, non-aerating multi laminar flow spray outlet) is being provided.</p> <p>Pharmacy double Sink <b>DS-1</b>: Ensure Thermostatic Mixing Valve is being provided.</p> <p>Retractable Hose Reel <b>HR-1</b>: Not indicated being provided. <b>RESUBMIT</b>.</p> <p>Ensure supplies are being provided for all sinks.</p>

**ENSURE COPIES OF FINAL SHOP DWGS ARE  
INSERTED INTO MAINTENANCE MANUALS.**

PROJECT  
TITLE: **25101 - Shopper's Drug Mart Kitchener**

GC SUBMITTAL #: 25101-SD-15-MECH-006	DATE: October 21, 2024
PRODUCT SUBMITTED: Plumbing Fixtures	
MANUFACTURER: Various	

**SUBCONTRACTOR / SUPPLIER**

COMPANY:	Consult Mechanical Inc.	
ADDRESS:	54 Audia Court, Unit 2 Concord, ON L4K 3N5	
CONTACT:	Inzaman Khan	226-886-1409

**ARCHITECT**

COMPANY:	Cusimano Architect	
ADDRESS:	185 Bridgeland Avenue Suite 107 Toronto, ON   M6A 1Y7	
CONTACT:	Stacey Melville	416-564-9791

**MECHANICAL / ELECTRICAL CONSULTANT**

COMPANY:	Integrated Engineering	
ADDRESS:	1930 Blue Heron Drive London, ON   N6H 5L9	
CONTACT:		

**STRUCTURAL CONSULTANT**

COMPANY:		
ADDRESS:		
CONTACT:		

**GENERAL CONTRACTOR**

COMPANY:	Royalty General Construction	
ADDRESS:	2580 Matheson Blvd E, Suite 201, Mississauga, ON L4W 4J1	
CONTACT:	Mark Fazio	416-558-4585



**ROYALTY GENERAL  
CONSTRUCTION**



**REVIEWED**



**REVIEWED AS NOTED**



**REVISE AND RE-SUBMIT**



**NOT REVIEWED**

DATE: October 21, 2024

PROJECT NO: 25101

REVIEWED BY: George Tabucan

THIS REVIEW BY ROYALTY GENERAL CONSTRUCTION IS FOR THE SOLE PURPOSE OF ASCERTAINING CONFORMANCE WITH THE GENERAL DESIGN CONCEPT. THIS REVIEW SHALL NOT MEAN THAT ROYALTY GENERAL CONTRACTORS APPROVE THE DETAIL DESIGN INHERENT IN THE SHOP DRAWINGS, RESPONSIBILITY FOR WHICH SHALL REMAIN WITH THE "CONTRACTOR" SUBMITTING SAME, AND SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY FOR ERRORS OR OMISSIONS IN THE SHOP DRAWINGS OR OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS TO BE CONFIRMED AND CORRELATED AT THE JOB SITE, FOR INFORMATION THAT PERTAINS SOLELY TO FABRICATION PROCESSES OR TO TECHNIQUES OF CONSTRUCTION AND INSTALLATION AND FOR CO-ORDINATION OF THE WORK OF ALL SUBTRADES.



54 Audia Court, Unit 2  
Concord, ON L4K 3N5  
(905)-738-1400

## Submittal 24-273-002

PROJECT NAME	PROJECT ADDRESS	DATE SUBMITTED
SDM 3755 - 1950 FISCHER-HALLMAN RD, KITCHENER 24-273	1950 FISCHER-HALLMAN ROAD, BUILDING 200 KITCHENER, ONTARIO	Oct 18, 2024
TO	FROM	
George Tabucan	INZAMAN KHAN	
COMPANY	COMPANY	
ROYALTY GENERAL CONSTRUCTION LTD.	Consult Mechanical Inc.	
EMAIL	EMAIL	
gtabucan@royaltygeneral.com	inzaman@consultmechanical.com	
ADDRESS	ADDRESS	
2580 Matheson Blvd E, Suite 201, Mississauga, ON L4W 4J1	54 Audia Court, Unit 2 Concord, ON L4K 3N5	

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### Title

Plumbing Fixtures

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### Description

HWC / WC / HL / L / DS-1 / DS-2 / HS / MS / WH-1 / WH-2 / ET-1 / ET-2

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### Package Items

SPEC	SUBSECTION	ITEM	TYPE
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**SHOPPERS DRUG MART  
1950 FISCHER HALLMAN  
ROAD**

**REVISED**  
**SHOP DRAWING PACKAGE**  
Prepared for  
**CONSULT MECHANICAL**

INTEGRATED ENGINEERING			
REVIEW OF THIS DRAWING IS FOR GENERAL CONFORMITY WITH THE DESIGN ONLY. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIREMENTS OF THE INSTALLATION.			
PROJ No.	7298	REVIEWED	
DATE	OCT 25, 2024	REVISED	
BY	TS	RESUBMIT	✓

SEE NOTES & COMMENTS ON  
TRANSMITTAL.

**OCT 18, 2024**





BARRIER FREE

# MADERA™ FloWise® 16-1/2" HEIGHT ELONGATED FLUSHOMETER TOILET

VITREOUS CHINA with EVERCLEAN®

## MADERA™ FloWise® 16-1/2" HEIGHT ELONGATED with EVERCLEAN®

- Floor mount flushometer valve toilet
- Vitreous china
- High Efficiency, Low Consumption. Operates in the range of 1.1 gpf to 1.6 gpf (4.2 Lpf to 6.0 Lpf)
- Meets definition of HET (High Efficiency Toilet) when used with a high efficiency flush valve (1.28 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
- Fully glazed 2-1/8" trapway
- Elongated bowl
- 10" or 12" roughing-in
- 16-1/2" rim height for accessible application
- Condensation channel
- Powerful direct-fed siphon jet action
- 10" x 12" water surface area
- 1-1/2" inlet spud
- 2 bolt caps
- 100% factory flush tested

- ☒ **3461.001** Elongated bowl only, top spud
- ☐ **3462.001** Elongated bowl only, top spud with slotted rim for bedpan holding (White only)
- ☐ **3465.001** Elongated bowl only, top spud with 4 bolts (White Only)
- ☐ **3466.001** Elongated bowl only, top spud with slotted rim for bedpan holding with 4 bolts (White only)
- ☐ **3463.001** Elongated bowl only, back spud
- ☐ **3464.001** Elongated bowl only, back spud with slotted rim for bedpan holding (White only)

### System MaP\* Score:

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

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

### Component Parts:

- ☐ **047007-0070A** Inlet Spud (furnished with bowl)
- ☐ **481310-100** Bolt caps with retainers (furnished with bowl)

### Nominal Dimensions:

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

Fixture only, less seat and flush valve

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

### Compliance Certifications -

#### Meets or Exceeds the Following Specifications:

- ASME A112.19.2-2008 / CSA B45.1-08 for Vitreous China Fixtures



SEE REVERSE FOR ROUGHING-IN DIMENSIONS

#### To Be Specified:

- ☒ Color: ☒ White ☐ Bone ☐ Linen
- ☐ Seat:
  - ☐ American Standard #5901.100 Heavy duty open front less cover
  - ☐ American Standard #5905.100 Extra heavy duty open front less cover
- ☐ Flushometer Valve:
  - ☐ 1.6 gpf:
    - ☐ Sensor-Operated: American Standard Selectronic® DC Power #6065.161.002 (Top Spud)
    - ☐ Sensor-Operated: American Standard Selectronic® AC Power #6067.261.002 (Back Spud)
    - ☐ Manual: American Standard #6047.161.002 (Top Spud)
  - ☐ 1.28 gpf:
    - ☐ Sensor-Operated: American Standard Selectronic® DC Power #6065.121.002 (Top Spud)
    - ☐ Sensor-Operated: American Standard Selectronic® AC Power #6067.221.002 (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)



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

EVERCLEAN®  
Surface





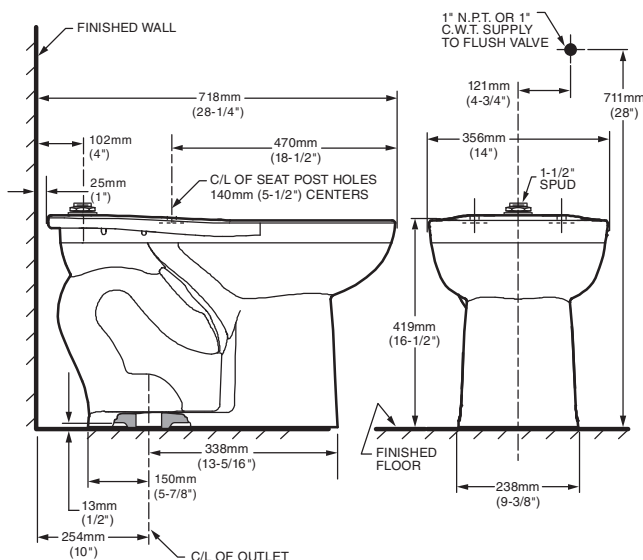
BARRIER FREE

# MADERA™ FloWise® 16-1/2" HEIGHT ELONGATED FLUSHOMETER TOILET

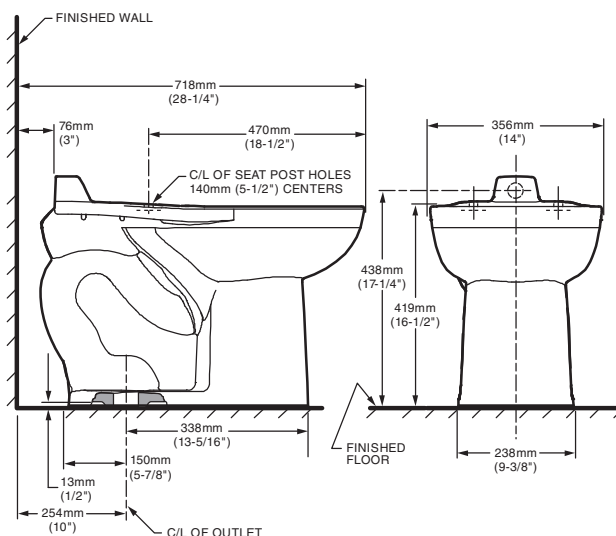
VITREOUS CHINA with EVERCLEAN®



3461.001/3462.001/3465.001/3466.001



3463.001/3464.001

**NOTES:**

PRODUCT 3461 AND 3463 SHOWN, 3462 AND 3464 SAME EXCEPT WITH SLOTTED RIM FOR BED PAN HOLDING.  
TO COMPLY WITH AREA CODE GOVERNING THE HEIGHT OF VACUUM BREAKER ON THE FLUSHOMETER VALVE, THE PLUMBER MUST VERIFY DIMENSIONS SHOWN FOR SUPPLY ROUGHING.  
THIS TOILET DESIGNED TO ROUGH-IN AT A MINIMUM DIMENSION OF 254MM (10") AND A MAXIMUM DIMENSION OF 305MM (12") FROM FINISHED WALL TO C/L OF OUTLET.  
FLUSHOMETER VALVE NOT INCLUDED WITH FIXTURE AND MUST BE ORDERED SEPARATELY. FLUSHOMETER VALVE REQUIREMENTS FOR 12" (305MM) ROUGH-IN: SWEAT EXTENSION NIPPLE IS REQUIRED. REFER TO VALVE MANUFACTURER AND LOCAL CODES.

**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.

# SLOAN®

## OPTIMA SYSTEMS

### Battery Powered Flushometers

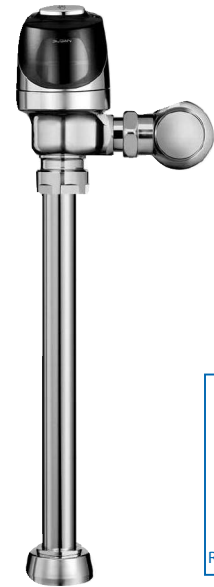
# G2 OPTIMA *plus*®



# 8115-1.28

# HET

HIGH-EFFICIENCY TOILET



#### Description

Exposed, Battery Powered, Sensor Operated G2® Model Water Closet Flushometer for floor mounted or wall hung top spud bowls.

#### Flush Cycle

Model 8115-1.28 High Efficiency (1.28 gpf/4.8 Lpf)

Note: Valve may not function with all bowls. Be sure to verify flow requirements with bowl manufacturer or call Sloan Valve Company.

#### Specifications

Quiet, Exposed, Diaphragm Type, Chrome Plated Closet Flushometer for either left or right hand supply with the following features:

- PERMEX® Synthetic Rubber Diaphragm with Dual Filtered Fixed Bypass
- Flex Tube Diaphragm designed for improved life and reduced maintenance
- ADA Compliant OPTIMA *Plus*® Battery Powered Infrared Sensor for automatic "No Hands" operation
- Infrared Sensor with Multiple-focused, Lobular Sensing Fields for high and low target detection
- Latching Solenoid Operator
- Engineered Metal Cover with replaceable Lens Window
- User friendly three (3) second Flush Delay
- Courtesy Flush® Override Button
- Four (4) Size AA alkaline Batteries included: Duracell® with DURALOCK Power Preserve Technology™-guaranteed for up to 10 years in storage
- "Low Battery" Flashing LED
- Infrared Sensor Range Adjustment Screw
- Initial Set-up Range Indicator Light (first 10 minutes)
- 1" I.P.S. Screwdriver Bak-Chek® Angle Stop
- Free Spinning, Vandal Resistant Stop Cap
- Adjustable Tailpiece
- High Back Pressure Vacuum Breaker Flush Connection with One-piece Bottom Hex Coupling Nut
- Spud Coupling and Flange for 1½" Top Spud
- Sweat Solder Adapter with Cover Tube and Cast Set Screw Wall Flange
- High Copper, Low Zinc Brass Castings for Dezincification Resistance
- Fixed Metering Bypass and No External Volume Adjustment to Ensure Water Conservation
- Flush Accuracy Controlled by CID Technology
- Diaphragm, Stop Seat and Vacuum Breaker molded from PERMEX® Rubber Compound for Chloramine resistance
- 100% of the energy used in manufacturing is offset with Renewable Energy Sources – Wind Energy

Valve Body, Tailpiece and Control Stop shall be in conformance with ASTM Alloy Classification for Semi-Red Brass. Valve shall be in compliance with the applicable sections of ASSE 1037 and ANSI/ASME A112.19.2. Installation conforms to ADA requirements.

#### Special Finishes

- ☐ **PB** Polished Brass (PVD Finish)
- ☐ **BN** Brushed Nickel (PVD Finish)
- ☐ **SF** Satin Chrome



#### ADA Compliant

#### Automatic

Sloan G2 Optima *Plus*® Flushometers activate via multi-lobular sensor detection to provide the ultimate in sanitary protection and automatic operation. A battery powered infrared sensor sets the flushing mechanism after the user is detected and completes the flush when the user steps away.

#### Functional & Hygienic

Touchless, sensor operation eliminates the need for user contact to help control the spread of infectious diseases. The G2 Optima *Plus* Flushometer is provided with an Override Button to allow a "courtesy flush" for individual user comfort.

#### Economical

Sloan installed batteries speed installation and provide years of metered flushing to control the use of water and energy. Batteries can be changed without turning off the water.

#### Warranty

3 year (limited)



Listed by I.A.P.M.O.

This space for Architect/Engineer approval

Job Name _____	Date _____
Model Specified _____	Quantity _____
Variations Specified _____	
Customer/Wholesaler _____	
Contractor _____	
Architect _____	

## Model

8115-1.28



## Description

Exposed, Battery Powered, Sensor Operated G2® Model Water Closet  
Flushometer for floor mounted or wall hung top spud bowls.

## Flush Cycle

Model 8115-1.28 High Efficiency (1.28 gpf/4.8 Lpf)

Note: Valve may not function with all bowls. Be sure to verify flow requirements with bowl manufacturer or call Sloan Valve Company.

## ELECTRICAL SPECIFICATIONS

## Control Circuit

Solid State  
6 VDC Input  
8 Second Arming Delay  
3 Second Flush Delay

## OPTIMA Sensor Type

Active Infrared

## OPTIMA Sensor Range

Nominal 22" - 42" (559 mm - 1067 mm),  
Adjustable  $\pm 8"$  (203 mm)

## Battery Type

(4) Size AA Alkaline: Duracell® with  
DURALOCK Power Preserve Technology™

## Battery Life

3 Years @ 4,000 Flushes/Month

## Indicator Lights

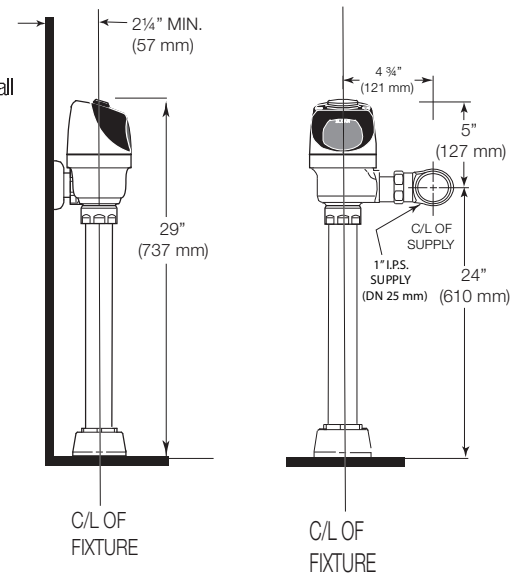
Range Adjustment/Low Battery

## Operating Pressure

15 - 100 psi (104 - 689 kPa)

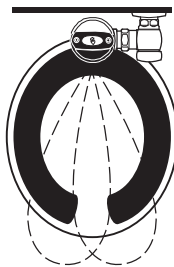
## Sentinel Flush

Once Every 24 Hours After the Last Flush

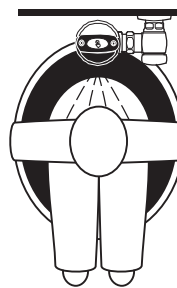


## OPERATION

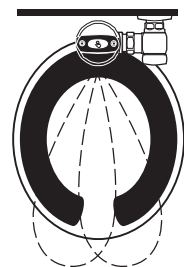
1. A continuous, invisible light beam is emitted from the OPTIMA Plus Sensor.



2. As the user enters the beam's effective range (22" to 42") the beam is reflected into the OPTIMA Plus Scanner Window and transformed into a low voltage electrical circuit. Once activated, the Output Circuit continues in a "hold" mode for as long as the user remains within the effective range of the Sensor.

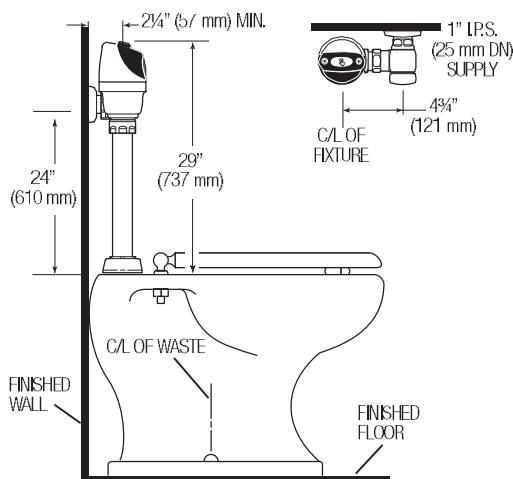


3. When the user steps away from the OPTIMA Plus Sensor, the circuit waits 3 seconds (to prevent false flushing) then initiates an electrical signal that operates the Solenoid. This initiates the flushing cycle to flush the fixture. The Circuit then automatically resets and is ready for the next user.



## VALVE ROUGH-IN

Model 8115-1.28



The Model 8115 valve is designed for installations where the water supply is roughed-in 24" (610 mm) above the top of the water closet.

For new installations, Sloan strongly recommends the use of our Model 8111 which has a shorter installation height.

When installing the G2 Optima Plus in a handicap stall:

Per the ADA Guidelines (section 604.9.4) it is recommended that the grab bars be split or shifted to the wide side of the stall.

SLOAN VALVE COMPANY • 10500 SEYMOUR AVENUE • FRANKLIN PARK, IL 60131

Phone: 1-800-982-5839 or 1-847-671-4300 • Fax: 1-800-447-8329 or 1-847-671-4380 • [www.sloanvalve.com](http://www.sloanvalve.com)



# Solid Plastic Seats Elongated

Institutional • Commercial • Hotel/Motel • Residential

## 800 SERIES



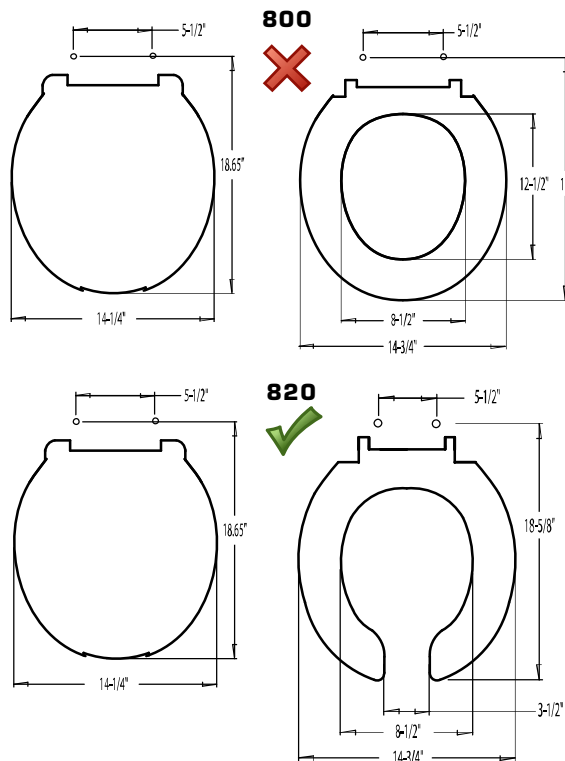
Available in Antimicrobial.  
Available in Fire-Retardant.



## 820 SERIES



Available in Antimicrobial.  
Available in Fire-Retardant.



## DETAILS

### 800TM

Luxury closed front with cover for elongated bowl. Top-mount hinge. For residential and light-duty commercial use.

### 800STS

Extra heavy-duty, closed front with cover for elongated bowl. Stainless steel hinge.

### 800STSS

Extra heavy-duty, closed front with cover for elongated bowl. Stainless steel self-sustaining ring.

### 820TM

Light-duty commercial, open front with cover for elongated bowl. Top-mount hinge. For light-duty commercial use.

### 820STS

Extra heavy-duty, open front with cover for elongated bowl. Stainless steel hinge.

### 820STSS

Extra heavy-duty, open front with cover for elongated bowl. Self-sustaining, stainless steel hinge.

### Standard Features:

- Impact-absorbing hinges
- Extended back with concealed hinge
- Integrally-molded, permanent and sanitary color-keyed bumpers
- Corrosion-free hardware
- Withstands cleansers, strong chemicals

Color	Code #	800 TM	800 STS	800 STSS	820 TM	820 STS	820 STSS
White	001	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Cotton/							
Crane White	301	<input type="checkbox"/>	<input type="checkbox"/>			<input checked="" type="checkbox"/>	
Linen/							
Biscuit	416	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	
Black	407	<input type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	
Bone/							
Almond	106-A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Canada ● U.S. ☐





# Madera™ FloWise® 15" Height Elongated Flushometer Toilet

VITREOUS CHINA with EVERCLEAN®

## Madera™ FloWise® 15" Height Elongated with EverClean®

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

- ☒ **3451001** Elongated bowl only, top spud
- ☐ **3452001** Elongated bowl only, top spud with slotted rim for bedpan holding
- ☐ **3453001** Elongated bowl only, back spud
- ☐ **3455001** Elongated bowl only, back spud with slotted rim for bedpan holding

### System MaP\* Score:

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

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

### Component Parts:

- ☐ **047007-0070A** Inlet Spud (furnished with bowl)
- ☐ **481310-100** Bolt caps with retainers (furnished with bowl)

### Nominal Dimensions:

718 x 356 x 381mm  
(28-1/4" x 14" x 15")

Fixture only, less seat and flush valve

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

### Compliance Certifications -

#### Meets or Exceeds the Following Specifications:

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



SEE REVERSE FOR ROUGHING-IN DIMENSIONS

#### To Be Specified:

- ☒ Color: ☒ White
- ☐ Seat:
  - ☐ American Standard #5901.100 Heavy duty open front less cover
  - ☐ American Standard #5905.100 Extra heavy duty open front less cover
- ☐ Flushometer Valve:
  - ☐ 1.6 gpf:
    - ☐ Sensor-Operated: American Standard Selectronic® DC Power #6065.161.002 (Top Spud)
    - ☐ Sensor-Operated: American Standard Selectronic® AC Power #6067.261.002 (Back Spud)
    - ☐ Manual: American Standard #6047.161.002 (Top Spud)
  - ☐ 1.28 gpf:
    - ☐ Sensor-Operated: American Standard Selectronic® DC Power #6065.121.002 (Top Spud)
    - ☐ Sensor-Operated: American Standard Selectronic® AC Power #6067.221.002 (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)



ENVIRONMENTAL  
PRODUCT  
DECLARATION



When used with  
1.1 or 1.28 gpf  
toilet flush valves



EVERCLEAN

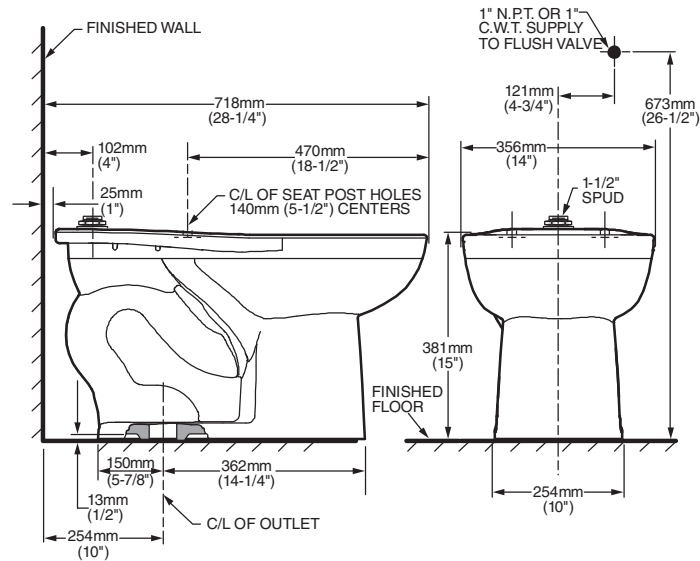


WATER  
EFFICIENT

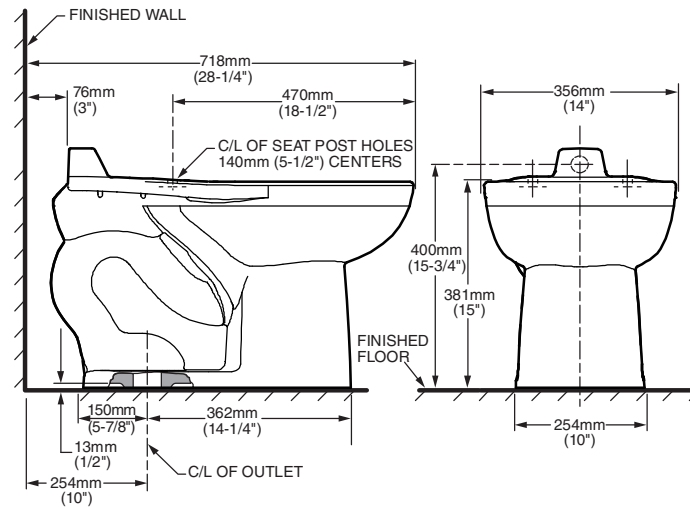
# Madera™ FloWise® 15" Height Elongated Flushometer Toilet

VITREOUS CHINA with EVERCLEAN®

## 3451001 / 3452001



## 3453001 / 3455001



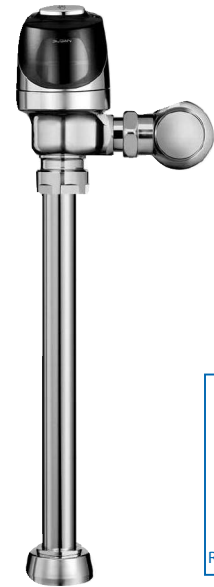
### NOTES:

PRODUCT 3451 AND 3453 SHOWN, 3452 AND 3455 SAME EXCEPT WITH SLOTTED RIM FOR BED PAN HOLDING.  
TO COMPLY WITH AREA CODE GOVERNING THE HEIGHT OF VACUUM BREAKER ON THE FLUSHOMETER VALVE, THE PLUMBER MUST VERIFY DIMENSIONS SHOWN FOR SUPPLY ROUGHING.  
THIS TOILET DESIGNED TO ROUGH-IN AT A MINIMUM DIMENSION OF 254MM (10") AND A MAXIMUM DIMENSION OF 305MM (12") FROM FINISHED WALL TO C/L OF OUTLET.  
FLUSHOMETER VALVE NOT INCLUDED WITH FIXTURE AND MUST BE ORDERED SEPARATELY. FLUSHOMETER VALVE REQUIREMENTS FOR 12" (305MM) ROUGH-IN: SWEAT EXTENSION NIPPLE IS REQUIRED. REFER TO VALVE MANUFACTURER AND LOCAL CODES.

**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.

8115-1.28

**HET**  
HIGH-EFFICIENCY TOILET



► **Description**  
Exposed, Battery Powered, Sensor Operated G2® Model Water Closet Flushometer for floor mounted or wall hung top spud bowls.

► **Flush Cycle**  
Model 8115-1.28 High Efficiency (1.28 gpf/4.8 Lpf)  
*Note:* Valve may not function with all bowls. Be sure to verify flow requirements with bowl manufacturer or call Sloan Valve Company.

► **Specifications**  
Quiet, Exposed, Diaphragm Type, Chrome Plated Closet Flushometer for either left or right hand supply with the following features:

- PERMEX® Synthetic Rubber Diaphragm with Dual Filtered Fixed Bypass
- Flex Tube Diaphragm designed for improved life and reduced maintenance
- ADA Compliant OPTIMA *Plus*® Battery Powered Infrared Sensor for automatic "No Hands" operation
- Infrared Sensor with Multiple-focused, Lobular Sensing Fields for high and low target detection
- Latching Solenoid Operator
- Engineered Metal Cover with replaceable Lens Window
- User friendly three (3) second Flush Delay
- Courtesy Flush® Override Button
- Four (4) Size AA alkaline Batteries included: Duracell® with DURALOCK Power Preserve Technology™-guaranteed for up to 10 years in storage
- "Low Battery" Flashing LED
- Infrared Sensor Range Adjustment Screw
- Initial Set-up Range Indicator Light (first 10 minutes)
- 1" I.P.S. Screwdriver Bak-Chek® Angle Stop
- Free Spinning, Vandal Resistant Stop Cap
- Adjustable Tailpiece
- High Back Pressure Vacuum Breaker Flush Connection with One-piece Bottom Hex Coupling Nut
- Spud Coupling and Flange for 1½" Top Spud
- Sweat Solder Adapter with Cover Tube and Cast Set Screw Wall Flange
- High Copper, Low Zinc Brass Castings for Dezincification Resistance
- Fixed Metering Bypass and No External Volume Adjustment to Ensure Water Conservation
- Flush Accuracy Controlled by CID Technology
- Diaphragm, Stop Seat and Vacuum Breaker molded from PERMEX® Rubber Compound for Chloramine resistance
- 100% of the energy used in manufacturing is offset with Renewable Energy Sources – Wind Energy

► **ADA Compliant**

► **Automatic**  
Sloan G2 Optima *Plus*® Flushometers activate via multi-lobular sensor detection to provide the ultimate in sanitary protection and automatic operation. A battery powered infrared sensor sets the flushing mechanism after the user is detected and completes the flush when the user steps away.

► **Functional & Hygienic**  
Touchless, sensor operation eliminates the need for user contact to help control the spread of infectious diseases. The G2 Optima *Plus* Flushometer is provided with an Override Button to allow a "courtesy flush" for individual user comfort.

► **Economical**  
Sloan installed batteries speed installation and provide years of metered flushing to control the use of water and energy. Batteries can be changed without turning off the water.

► **Warranty**  
3 year (limited)

Valve Body, Tailpiece and Control Stop shall be in conformance with ASTM Alloy Classification for Semi-Red Brass. Valve shall be in compliance with the applicable sections of ASSE 1037 and ANSI/ASME A112.19.2. Installation conforms to ADA requirements.

► **Special Finishes**

- ☐ **PB** Polished Brass (PVD Finish)  
☐ **BN** Brushed Nickel (PVD Finish)  
☐ **SF** Satin Chrome



Listed by I.A.P.M.O.

This space for Architect/Engineer approval	
Job Name _____	Date _____
Model Specified _____	Quantity _____
Variations Specified _____	
Customer/Wholesaler _____	
Contractor _____	
Architect _____	

## Model

8115-1.28



► **Description**

Exposed, Battery Powered, Sensor Operated G2® Model Water Closet Flushometer for floor mounted or wall hung top spud bowls.

► **Flush Cycle**

Model 8115-1.28 High Efficiency (1.28 gpf/4.8 Lpf)

**Note:** Valve may not function with all bowls. Be sure to verify flow requirements with bowl manufacturer or call Sloan Valve Company.

### ELECTRICAL SPECIFICATIONS

► **Control Circuit**

Solid State  
6 VDC Input  
8 Second Arming Delay  
3 Second Flush Delay

► **OPTIMA Sensor Type**

Active Infrared

► **OPTIMA Sensor Range**

Nominal 22" - 42" (559 mm - 1067 mm),  
Adjustable  $\pm 8"$  (203 mm)

► **Battery Type**

(4) Size AA Alkaline: Duracell® with DURALOCK Power Preserve Technology™

► **Battery Life**

3 Years @ 4,000 Flushes/Month

► **Indicator Lights**

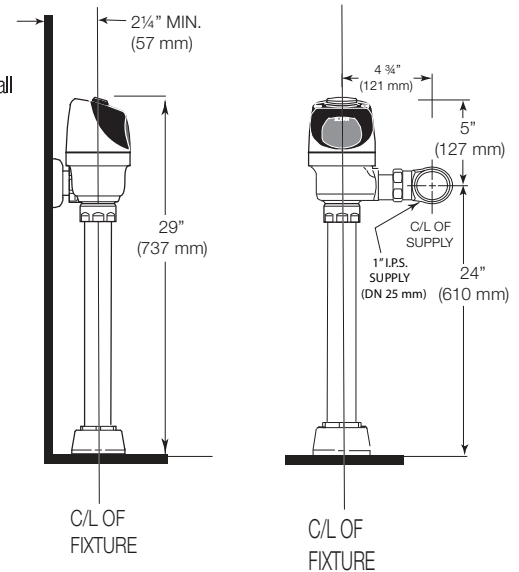
Range Adjustment/Low Battery

► **Operating Pressure**

15 - 100 psi (104 - 689 kPa)

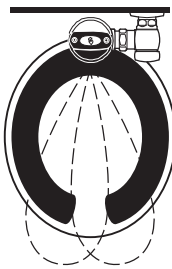
► **Sentinel Flush**

Once Every 24 Hours After the Last Flush

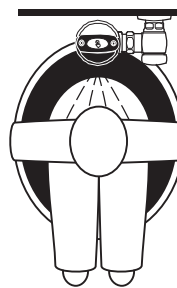


### OPERATION

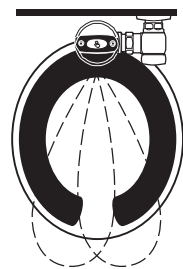
1. A continuous, invisible light beam is emitted from the OPTIMA Plus Sensor.



2. As the user enters the beam's effective range (22" to 42") the beam is reflected into the OPTIMA Plus Scanner Window and transformed into a low voltage electrical circuit. Once activated, the Output Circuit continues in a "hold" mode for as long as the user remains within the effective range of the Sensor.

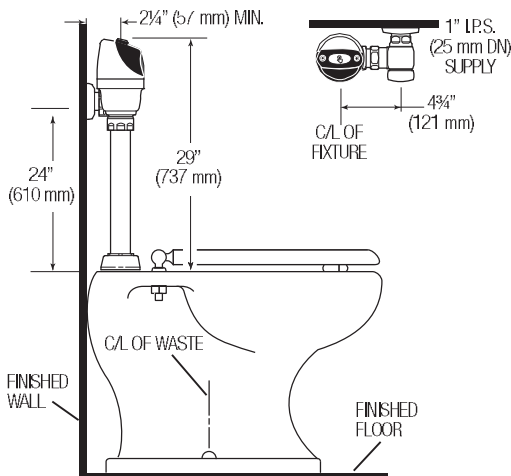


3. When the user steps away from the OPTIMA Plus Sensor, the circuit waits 3 seconds (to prevent false flushing) then initiates an electrical signal that operates the Solenoid. This initiates the flushing cycle to flush the fixture. The Circuit then automatically resets and is ready for the next user.



### VALVE ROUGH-IN

Model 8115-1.28



The Model 8115 valve is designed for installations where the water supply is roughed-in 24" (610 mm) above the top of the water closet. For new installations, Sloan strongly recommends the use of our Model 8111 which has a shorter installation height.

When installing the G2 Optima Plus in a handicap stall: Per the ADA Guidelines (section 604.9.4) it is recommended that the grab bars be split or shifted to the wide side of the stall.

**SLOAN VALVE COMPANY • 10500 SEYMOUR AVENUE • FRANKLIN PARK, IL 60131**

Phone: 1-800-982-5839 or 1-847-671-4300 • Fax: 1-800-447-8329 or 1-847-671-4380 • [www.sloanvalve.com](http://www.sloanvalve.com)



# Solid Plastic Seats Elongated

**Institutional • Commercial • Hotel/Motel • Residential**

## 800 SERIES



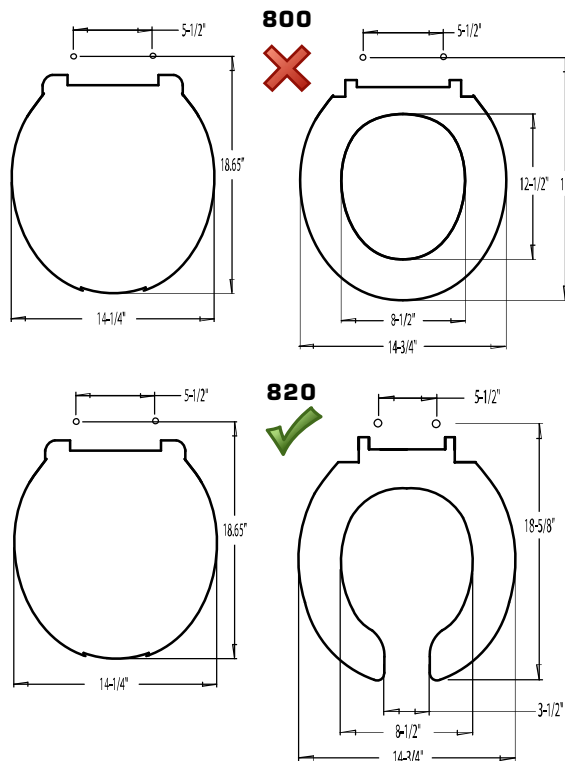
Available in Antimicrobial.  
Available in Fire-Retardant.



## 820 SERIES



Available in Antimicrobial.  
Available in Fire-Retardant.



## DETAILS

### 800TM

Luxury closed front with cover for elongated bowl. Top-mount hinge. For residential and light-duty commercial use.

### 800STS

Extra heavy-duty, closed front with cover for elongated bowl. Stainless steel hinge.

### 800STSS

Extra heavy-duty, closed front with cover for elongated bowl. Stainless steel self-sustaining ring.

### 820TM

Light-duty commercial, open front with cover for elongated bowl. Top-mount hinge. For light-duty commercial use.

### 820STS

Extra heavy-duty, open front with cover for elongated bowl. Stainless steel hinge.

### 820STSS

Extra heavy-duty, open front with cover for elongated bowl. Self-sustaining, stainless steel hinge.

### Standard Features:

- Impact-absorbing hinges
- Extended back with concealed hinge
- Integrally-molded, permanent and sanitary color-keyed bumpers
- Corrosion-free hardware
- Withstands cleansers, strong chemicals

Color	Code #	800 TM	800 STS	800 STSS	820 TM	820 STS	820 STSS
White	001	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Cotton/							
Crane White	301	<input type="checkbox"/>	<input type="checkbox"/>			<input checked="" type="checkbox"/>	
Linen/							
Biscuit	416	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	
Black	407	<input type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	
Bone/							
Almond	106-A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Canada ● U.S. ☐





# WHEELCHAIR USERS LAVATORY

VITREOUS CHINA

## WHEELCHAIR USERS LAVATORY

- Vitreous china
- Wall mount sink
- Front overflow
- For concealed arms support (by others)
- Faucet ledge (faucet not included)

### Faucet Holes on 102mm (4") centers

- ☐ **9141.011** Faucet holes on 102mm (4") centers (Illustrated)
- ☐ **9141.911** (Modification SKU) Faucet holes on 102mm (4") centers
  - Less overflow

### Faucet Holes on 267mm (10-1/2") centers

- ☐ **9140.013** Faucet holes on 267mm (10-1/2") centers
- ☐ **9140.021** (Modification SKU) Faucet holes on 267mm (10-1/2") centers
  - Extra right-hand hole

### Faucet Holes center hole only

- ☒ **9140.047** Center hole only

### Nominal Dimensions:

508 x 686mm  
(20" x 27")

### Bowl Sizes:

14" (356mm) wide  
14-3/4" (375mm) front to back  
4-3/4" (121mm) deep

### Compliance Certifications -

#### Meets or Exceeds the Following Specifications:

- ASME A112.19.2 for Vitreous China Fixtures



SEE REVERSE FOR ROUGHING-IN DIMENSIONS

#### To Be Specified:

- ☒ Color: ☒ White
- ☐ Faucet\*:
- ☐ Faucet Finish:
- ☐ Supplies with Stop:
- ☐ 1-1/4" Trap:
- ☐ Nipple:
- ☐ Concealed Arms Support (by others):
- ☐ Offset Grid Drain Assembly:

\* See faucet section for additional models available



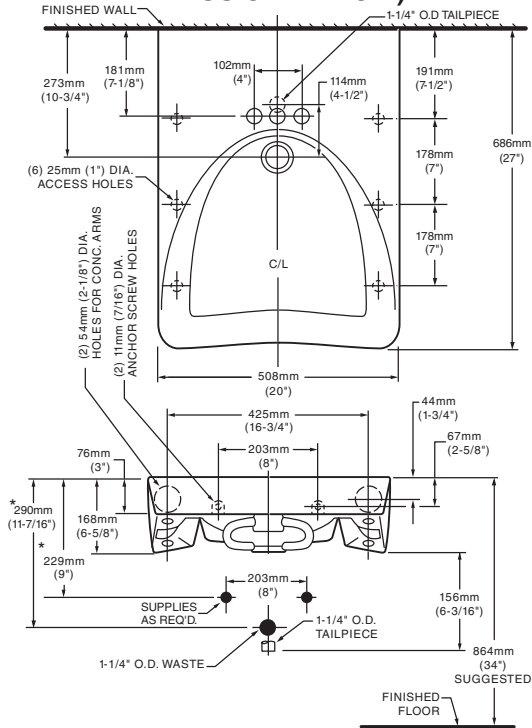
MEETS THE AMERICANS WITH DISABILITIES ACT GUIDELINES AND ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES - CHECK LOCAL CODES.  
Top of front rim mounted 864mm (34") from finished floor.

*American  
Standard*

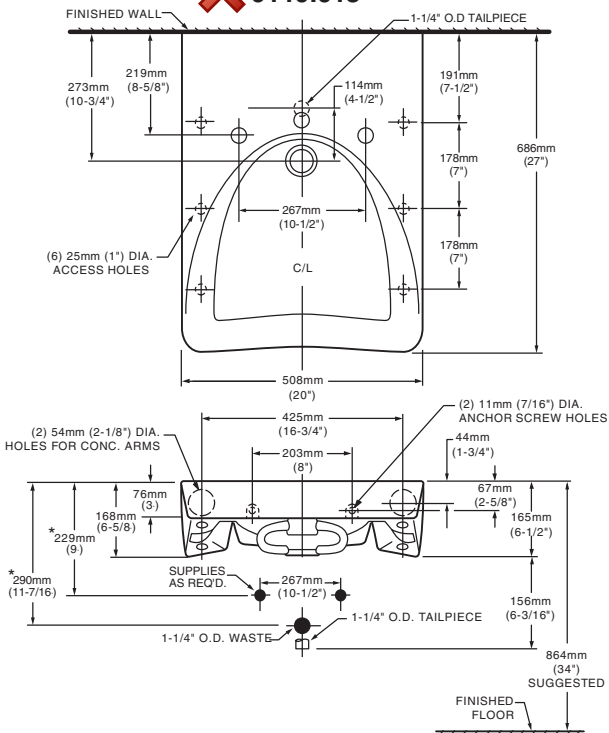
# WHEELCHAIR USERS LAVATORY VITREOUS CHINA

 BARRIER FREE

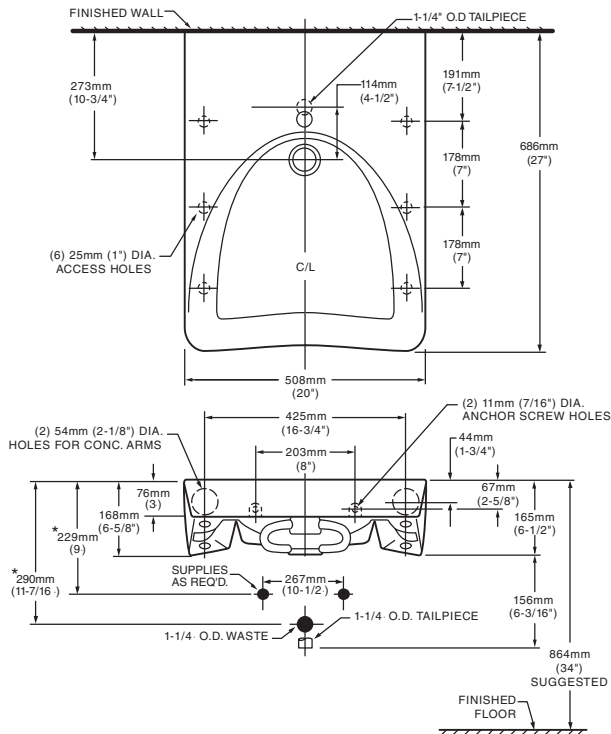
## ❌ 9141.011 AND 9141.911 (MODIFICATION LESS OVERFLOW)



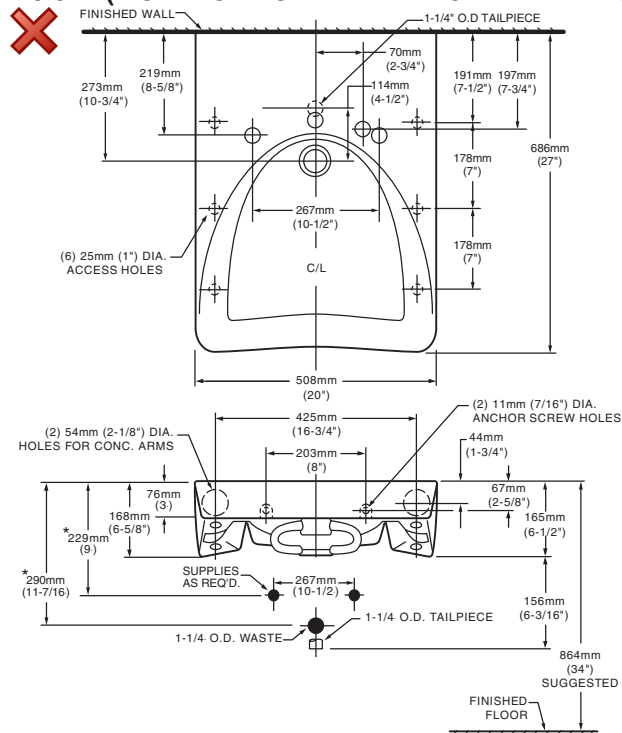
## ❌ 9140.013



## 9140.047



## 9140.021 (MODIFICATION EXTRA RIGHT HAND HOLE)



### NOTES:

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

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



MEETS THE AMERICANS WITH DISABILITIES ACT GUIDE-  
LINES AND ANSI A117.1 ACCESSIBLE AND USABLE  
BUILDINGS AND FACILITIES - CHECK LOCAL CODES.  
Top of front rim mounted 864mm (34") from finished floor.

# SLOAN® Faucets

## Sensor Activated Electronic Pedestal Faucet

SF-2400  
SF-2450 ✓

► **Description**

Sensor Activated, Electronic, Pedestal Hand Washing Faucet for tempered or hot/cold water operation.

► **Models**

- ☐ SF-2400 Series 6 VDC Plug-in Adapter Powered with Battery Backup
- ☒ SF-2450 Series Battery Powered

► **Flow Rate**

- ☒ 0.5 gpm/1.9 Lpm Max Flow Spray Head

► **Specifications**

ADA Compliant, Sensor Activated, 6 VDC, Chrome Plated Brass, Pedestal Hand Washing Faucet with the following features:

- Splash-proof Circuit Control Module
- Adjustable Infrared Sensor Range
- 36" (914 mm) Long Sensor Cable
- 24" (610 mm) Long Flex Hose
- Filtered Solenoid Valve with serviceable Strainer Filter
- Bak-Chek® Tee for Hot/Cold Supply
- 6 VDC Plug-in Adapter (Model SF-2400 only)
- Non-aerated Spray Head
- Includes Four (4) AA-size Batteries
- Includes appropriate Mounting Hardware
- Trim Plate Kit for 4" (102 mm) Centerset Sink

► **Variations (add suffix to Model Number for inclusion with Faucet)**

• **Trim Plates (specify one)**

- ☒ -4 4" Trim Plate for 4" Centerset Sink
- ☐ -8 8" Trim Plate for 8" Centerset Sink

• **Temperature Mixing Valve**

- ☐ BDM MIX-60-A Below Deck Mechanical Mixing Valve

► **Accessories (specify separately)**

• **Standard Outlets**

- ☐ SFP-13 0.5 gpm/1.9 Lpm Spray Head
- ☐ SFP-23 2.2 gpm/8.3 Lpm Aerator Spray Head

• **Vandal Resistant Outlets**

- ☐ EAF-15 0.5 gpm/1.9 Lpm Aerator Spray Head
- ☐ SFP-24 2.2 gpm/8.3 Lpm Aerator Spray Head

• **Adapters**

- ☐ SFP-6 110 VAC/6 VDC Plug-in Adapter
- ☐ SFP-20 220 VAC/6 VDC Type G Rectangular (UK) Plug-in Adapter
- ☐ SFP-25 220 VAC/6 VDC Type C Round Pin (Euro) Plug-in Adapter
- ☐ SFP-26 220 VAC/6 VDC Type A Flat Blade (Asia) Plug-in Adapter
- ☐ SFP-35-A Gang Adapter Kit, includes 1 Plug-in Gang Adapter, 5 Splitter Cables and 1 Extension Cable
- ☐ SFP-36 71" (1800 mm) 120 VAC/6 VDC Plug-in Gang Adapter
- ☐ SFP-38 51" (1300 mm) Splitter Cable
- ☐ SFP-37 51" (1300 mm) Extension Cable



► **ADA Compliant**

► **Automatic**

Sloan SF-2400 and SF-2450 Electronic Pedestal Hand Washing Faucets operate by means of an infrared sensor. When the user enters the sensor's effective range, the Solenoid activates the water flow. Tempered water flows from the Faucet until the user steps away. The Faucet then automatically shuts off.

► **Hygienic**

The ultimate in sanitary protection — there are no handles to turn or buttons to push. Helps to control the spread of infectious diseases.

► **Economical**

Automatic operation provides water usage savings over other faucet devices. Reduces maintenance and operation costs.

► **Warranty**

1 year (limited)

► **Compliant to:**

ASME A112.18.1



This space for Architect/Engineer approval

Job Name \_\_\_\_\_ Date \_\_\_\_\_

Model Specified \_\_\_\_\_ Quantity \_\_\_\_\_

Variations Specified \_\_\_\_\_

Customer/Wholesaler \_\_\_\_\_

Contractor \_\_\_\_\_

Architect \_\_\_\_\_

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

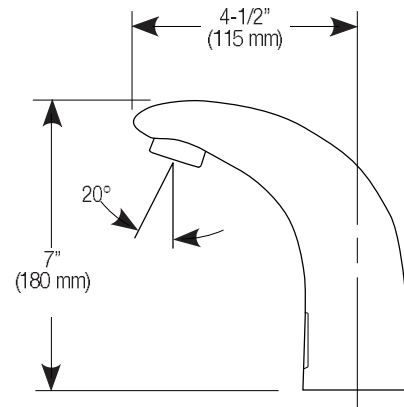
# SF-2400

# SF-2450

- **Description**  
Sensor Activated, Electronic, Hand Washing Faucet for tempered or hot/cold water operation.
- **Models**
  - SF-2400 Series 6 VDC Plug-in Adapter Powered with Battery Backup
  - SF-2450 Series Battery Powered
- **Flow Rate**
  - 0.5 gpm/1.9 Lpm Max Flow Outlet

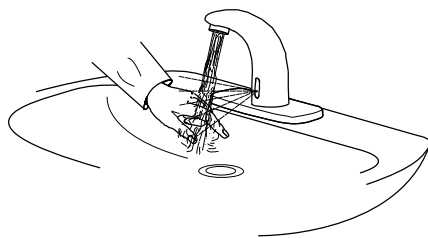
## ELECTRICAL SPECIFICATIONS

- **Control Circuit**  
6 VDC Input/Output
- **Adapter**  
6 VDC Plug-in (Model 2400 only)
- **Battery Life**  
Four (4) Alkaline AA Batteries 2 years at 8,000 cycles/month
- **Solenoid Valve**  
6 VDC, Serviceable Strainer, 3/8" Compression Inlet, 1/2" NPSM Outlet
- **Sensor Range**  
Nominal:  
4" - 7" (102 mm - 178 mm)

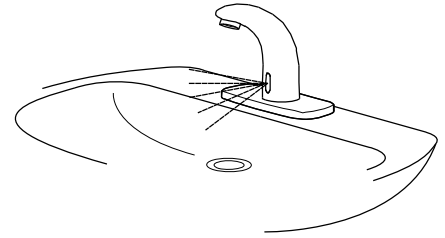


## OPERATION

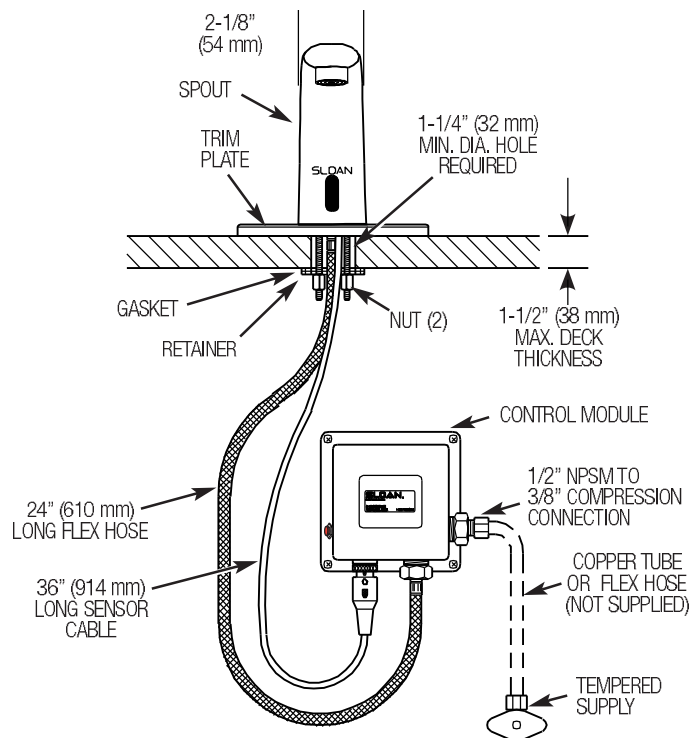
1. When a user's hands enter the sensing range, water flows from the spout.



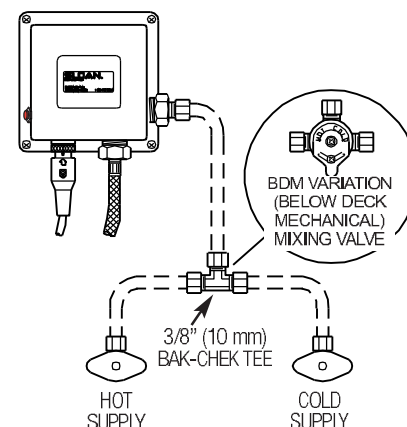
2. When hands are removed, the water flow stops.



## ROUGH-IN DIMENSIONS



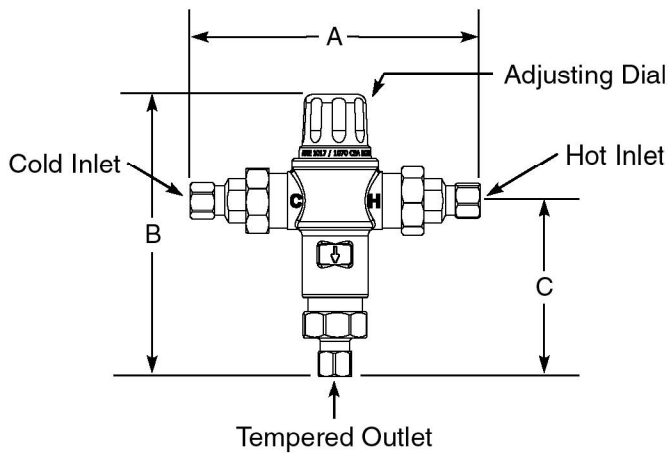
## HOT AND COLD WATER SUPPLY APPLICATIONS (SPECIFY IN MODEL VARIATION)



**SLOAN VALVE COMPANY • 10500 SEYMOUR AVENUE • FRANKLIN PARK, IL 60131**

Phone: 1-800-982-5839 or 1-847-671-4300 • Fax: 1-800-447-8329 or 1-847-671-4380 • [www.sloanvalve.com](http://www.sloanvalve.com)

www.lawlervalue.com

**DATA SHEET**

# Thermostatic Mixing Valve for Point of Use and Master Controlled Fixtures

## Model 570

### Unit No. 86820

Inlets & Outlet are  $\frac{3}{8}$ " Compression Fit

ASSE 1017 &amp; 1070 Approved

Certified to  
CSA B125.3

The mixing valve for point of use master controlled fixtures shall be a nickel plated thermostatic mixing valve. The mixing valve shall be  $\frac{3}{8}$ " Compression Fit. The mixing valve shall have a spindle to adjust outlet temperature. The mixing valve shall have internal checks. The mixing valve shall be Lawler model 570.

### Specifications

- Outlet temperature range: 95-115°F.
- Temperature, hot supply: 180°F max.
- Temperature, cold supply: 40-80°F.
- Temperature stability (nominal):  $\pm 5^\circ\text{F}$ .
- Temperature differential (between hot supply and outlet temperature): 10°F.
- Hydrostatic pressure: 125 psi max.
- Permitted supply pressure variation:  $\pm 20\%$ .
- Flow rate @ 45psi pressure loss: 7 gpm.
- Flow rate, minimum: .5 gpm.
- Flow rate, maximum: 8 gpm.

### Benefits

- Protects against scalding and chilling.
- Offers choice of temperature settings from 95° through 115°F.
- Easy installation.
- Backed by Lawler's One Year Warranty.
- ASSE 1017 & 1070 approved.

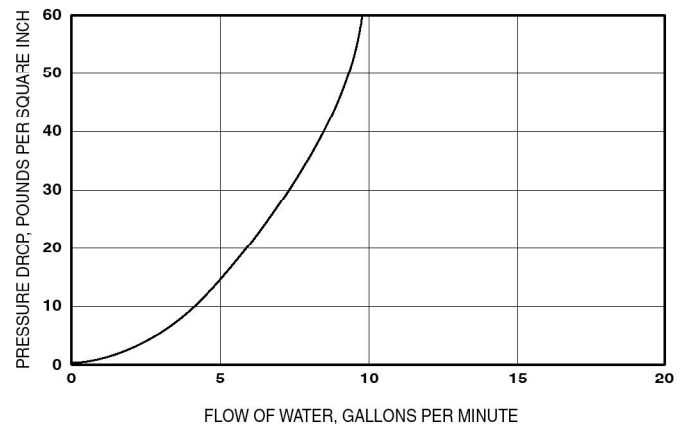
Engineer Approval ☐**MANUFACTURING CO., INC.**

5330 East 25th Street  
Indianapolis, Indiana 46218  
Phone (317) 261-1212  
Fax (317) 261-1208

### DIMENSIONS:

Valve Number	A	B	C
M 570	5.6"	5.4"	3.4"

FLOW CAPACITIES - MODEL 570



### CAPACITIES - MODEL 570

Pressure Drop PSI	5	10	20	40
Valve Number	Capacity			
570-GPM	3	4	5	6.5
570-LPM	11	15	19	25

### Temperature Adjustment

To adjust the mixed outlet temperature of the valve, remove the cap to gain access to the adjusting spindle. The spindle should be rotated-clockwise to reduce the temperature, counter-clockwise to increase the temperature until the desired set point is reached.

**Note:** For ASSE 1017 & 1070 applications.

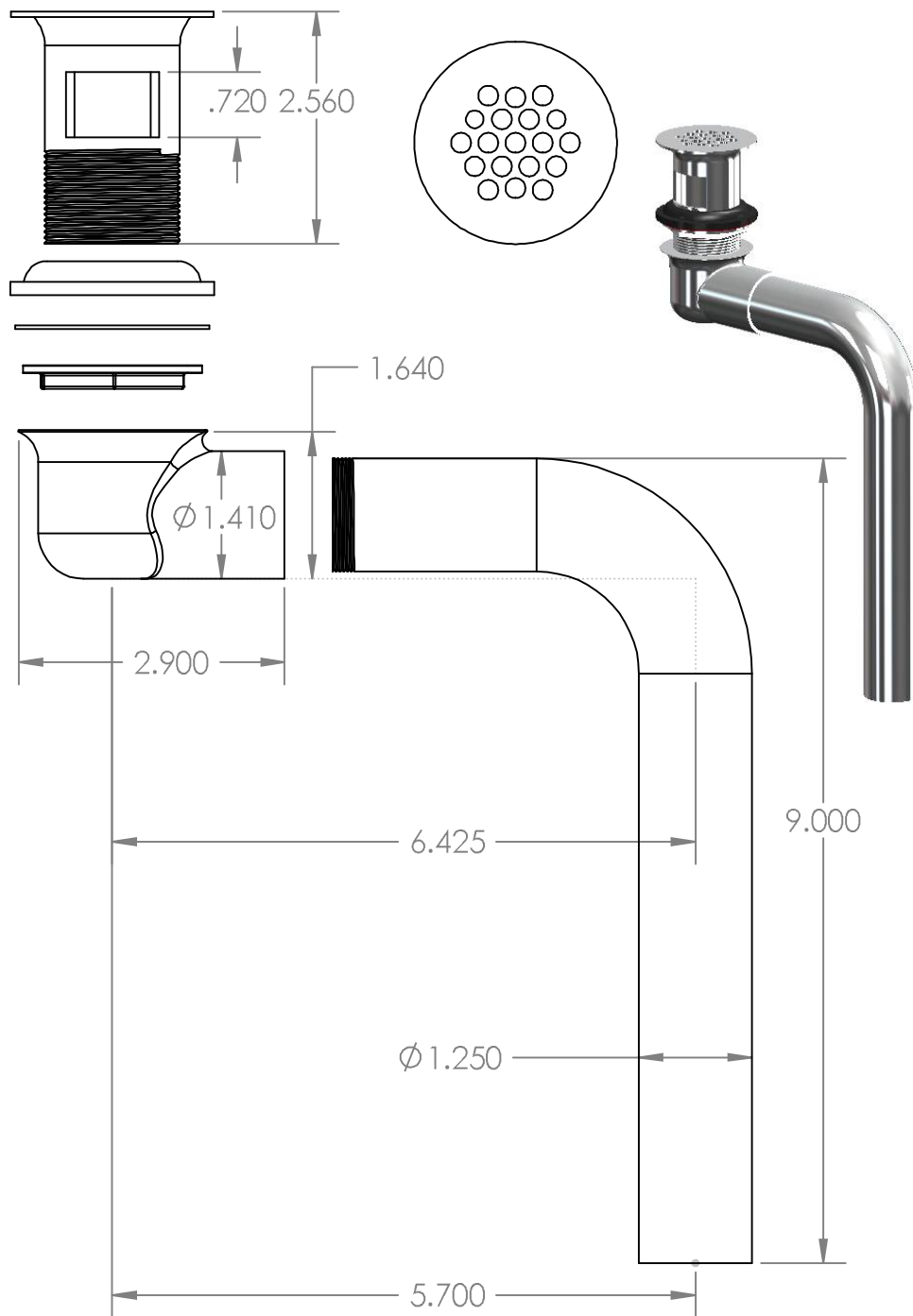
Design and specification subject to change without notice.





# 3700WC P.O. OFFSET LAV DRAIN SERIES

## PRODUCT Specifications



3700WC 1-1/4" 17 GA  
CAST BRASS OFFSET  
P.O. LAV DRAIN

### DIAM & GAUGE (a):

3700: 1-1/4"

- cast brass strainer
- cast brass elbow
- 1-1/4" 17 GA tailpiece

### LENGTH (b):

Default = 9"

### GRID:

- 19 hole
- min. grid hole size =  
0.20" / 5.08 mm

### FINISHES AVAILABLE (x):

(Default = Chrome Plated)  
PB = POLISHED BRASS

### CERTIFICATIONS:



Drawn by: Chris McLeod  
Date: 2010JUN28  
Checked by: Mike Pinet  
Oakville Stamping & Bending Ltd.  
Units: Inches  
Scale: 1:2 (line drawing)  
1:4 (illustration)

Alternate equal to  
MCGUIRE MODEL  
155WC

**McGUIRE MFG. CO., INC.**

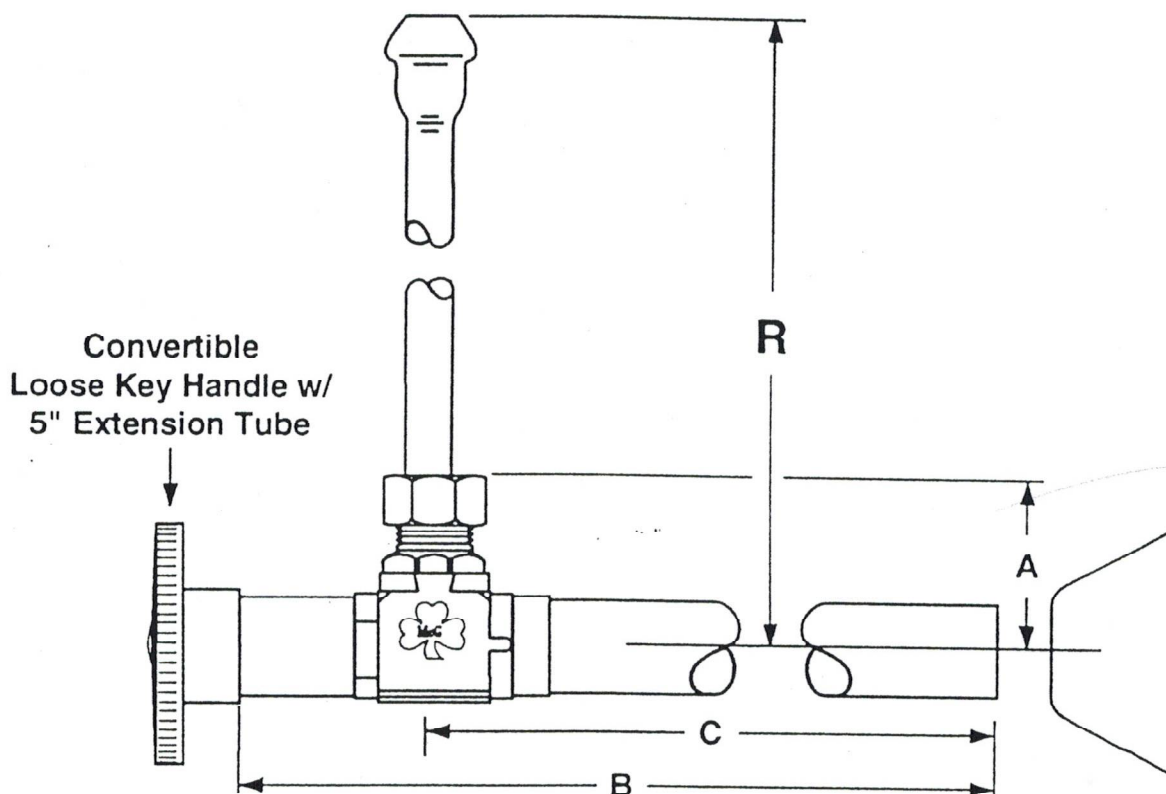
60 Grandview Court  
 P.O. Box 746 ♣ Cheshire, CT 06410  
 203-699-1801 ♣ Fax 203-699-1813  
 www.mcguiremfg.com

**Product Specification****Part No.****H170LK-BV-RB**

Quarter-Turn Brass Ball Valve  
 Lavatory Supply  
 with 5" Extension

**Job Name:** \_\_\_\_\_**Submittal Number:** \_\_\_\_\_

RB = SS Braided Risers

**Convertible™**

MODEL NO.	ROUGHING MEASUREMENTS	A	B	C	R
H170LK-BV	1/2" Sweat x 3/8" O.D.	1-1/4"	7-3/8"	5-13/16"	12, 15, 16, 20, 36

For braided stainless riser add suffix SS and number for length 12, 16, 20, 36.  
 See options and accessories section for details on product variations.

**Specifications:**

Supply kit shall include commercial pattern chrome plated Quarter-Turn Brass Ball Valve with convertible loose key handle (chrome plated copper, or braided stainless risers) and (shallow, deep, bell) (steel, brass) or (forged brass with set screw) flange. Inlet shall be (1/2) inch (IPS, sweat, compression). Outlet shall be (3/8) inch (compression). Supply kit shall be McGuire \_\_\_\_\_. Supply kit shall be certified by CSA or other recognized testing authority and bear manufacturer and testing mark. Stop to be certified to 200 psi line pressure.



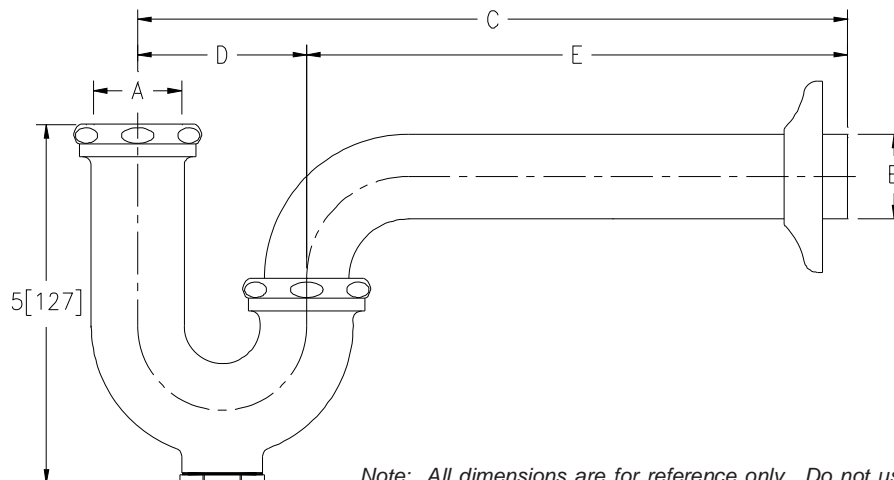
# SEMI-CAST P-TRAPS WITH WALL BEND

## 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 only. Do not use for pre-plumbing.

PRODUCT NUMBER	A INLET in[mm]	B OUTLET in[mm]	GAUGE	DIMENSIONS			MASTER CARTON	WEIGHT CARTON [lbs]
				C in[mm]	D in[mm]	E in[mm]		
✓ 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
✓ -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

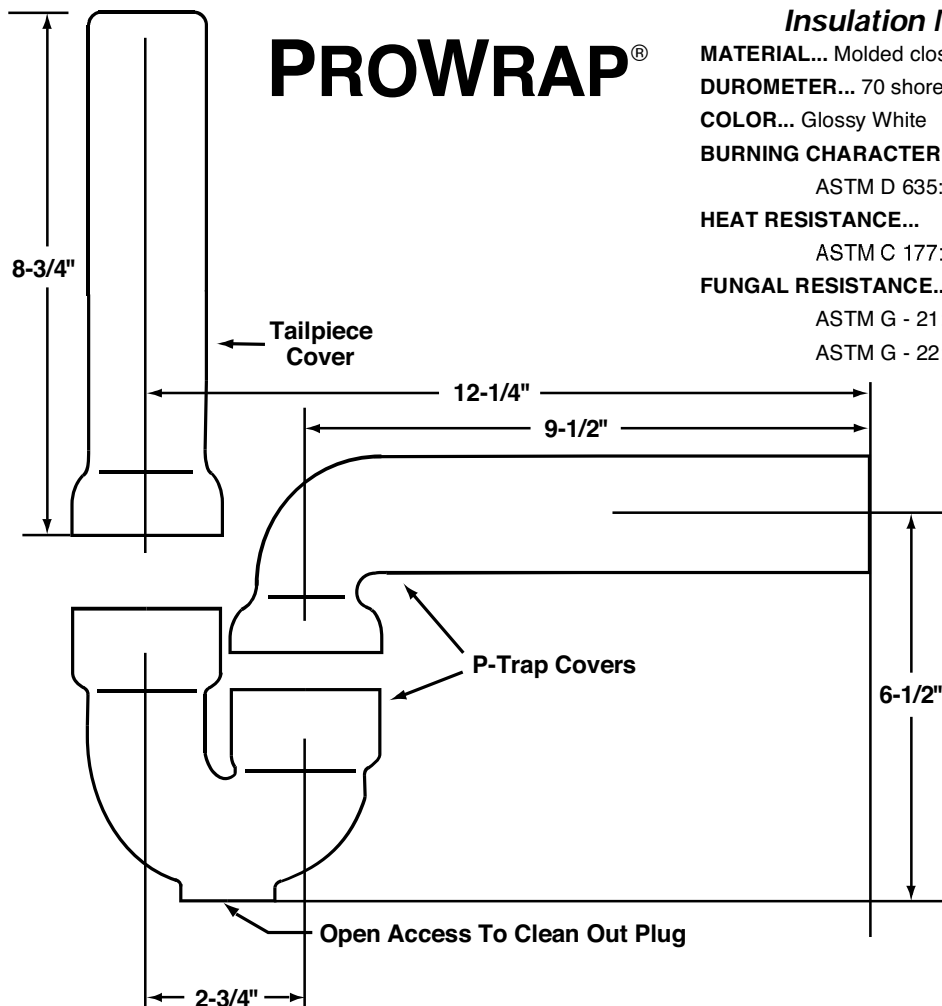
ZURN INDUSTRIES, LLC ♦ COMMERCIAL BRASS OPERATION ♦ 2640 SOUTH WORK STREET ♦ FALCONER NY 14733

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


**McGuire Manufacturing Co., Inc.**

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

**PRODUCT SPECIFICATION**
**Part No.**
**PW2000, PW2000WC**
**Seamless Retrofit  
P-Trap Insulation Kit**
**Job Name:**
**Submittal Number:**

**Insulation Material Specifications**
**MATERIAL...** Molded closed cell vinyl (ANTI-MICROBIAL)

**DUROMETER...** 70 shore A

**COLOR...** Glossy White

**BURNING CHARACTERISTICS...**

ASTM D 635: Less than 5 sec (ATB) 10mm (AEB)

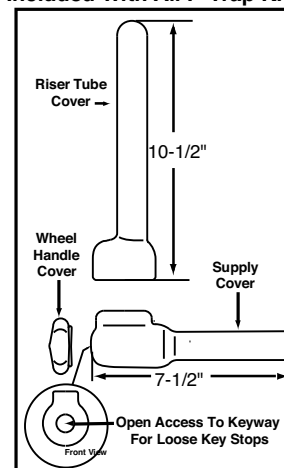
**HEAT RESISTANCE...**

ASTM C 177: BTU - in/hr - ft 2 - °F KValue = 1.02

**FUNGAL RESISTANCE...**

ASTM G - 21: (Rating\*) 0 fungal growth measured

ASTM G - 22: (Rating\*) 0 bacterial growth measured

**Supply Covers (1 pair)  
Included With All P-Trap Kits**


\*ASTM Rating - Observed Growth on Specimens

- 0 None
- 1 Traces of Growth (less than 10%)
- 2 Light Growth (10-30%)
- 3 Medium Growth (30-60%)
- 4 Heavy Growth (60%-complete coverage)

Environmental Controls:

Paper - 4, Cork - 1, Cotton - 4, Glass - 0

**MODEL NO.**
**DESCRIPTION**
**PW2000**

For 1-1/4" &amp; 1-1/2" P-Traps

**PW2000WC**

 For 1-1/4" & 1-1/2" P-Traps  
with offset drain assembly

**Note:** PW2000 Retrofit Kit will accommodate 1-1/4" OR  
1-1/2" brass P-traps.

 MADE IN USA  
 U.S. PATENT  
 5,341,830 5,586,568  
 5,904,175 5,911,237  
 5,795,623 5,678,598

**A.D.A.**


See options and accessories section for details on product variations.

**Specifications:**

Seamless Retrofit P-Trap Insulation Kit furnished with seamless riser tube covers, supply angle stop covers, seamless drain tailpiece cover and angle stop wheel handle covers.



WCA-411/WCA-411-WC

Tag: \_\_\_\_\_

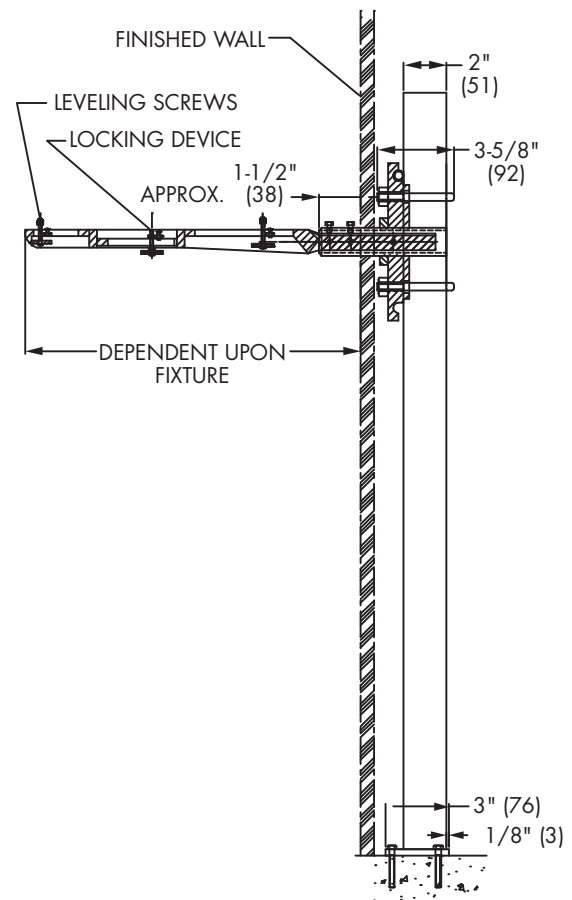
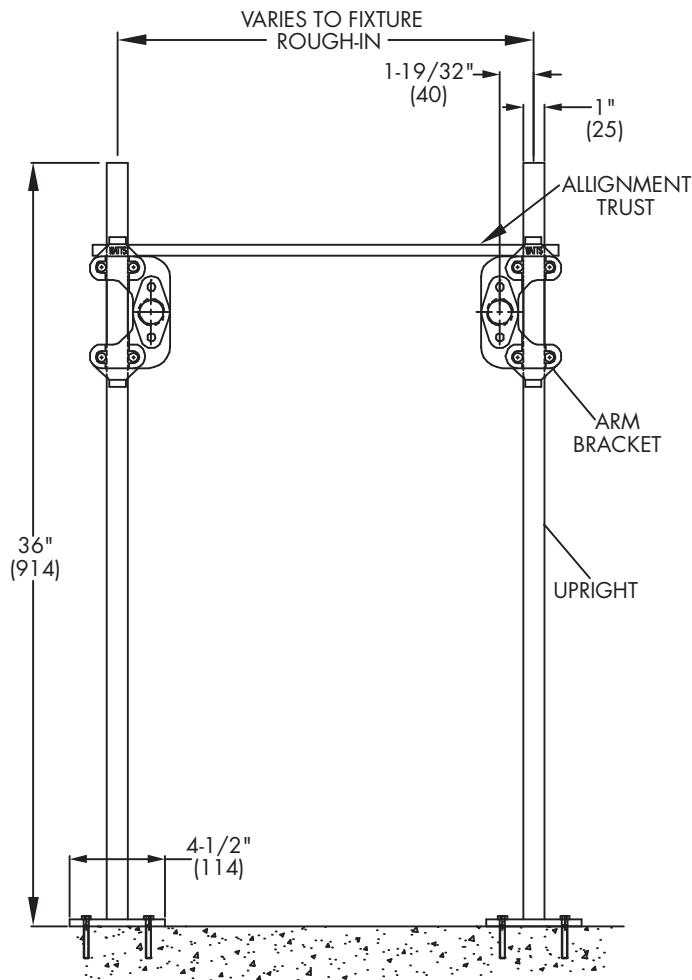
# Floor Mounted Lavatory Carrier with Concealed Arms

**SPECIFICATION:** Watts Drainage WCA-411/WCA-411-WC\* floor mounted concealed arm lavatory carrier with heavy gauge steel offset uprights with integral welded feet, adjustable epoxy coated cast iron arms with levelling screws and basin locking device, upper tie rod, and plated hardware.

## Options (Select One or More)

Suffix	Description	
-M42	42" Long Carrier Leg	<input type="checkbox"/>
-M54	2" Chrome Plated Escutcheons, Single	<input type="checkbox"/>
-M55	4" Chrome Plated Escutcheons, Single	<input type="checkbox"/>
-M60	Knee-Operated Valve Support Plate, Single	<input type="checkbox"/>
-US	Buy American Compliant	<input type="checkbox"/>

\* SPECIFY CA-411-WC FOR  
27"x 20" (675x500) LAVATORIES



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

Job Name \_\_\_\_\_ Contractor \_\_\_\_\_

Job Location \_\_\_\_\_ Contractor's P.O. No. \_\_\_\_\_

Engineer \_\_\_\_\_ Representative \_\_\_\_\_

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



Specification Drainage Products

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



*American Standard*

Style That Works Better

 BARRIER FREE**LUCERNE™  
WALL-HUNG LAVATORY**  
VITREOUS CHINA**LUCERNE™ WALL-HUNG LAVATORY**

- Wall-hung sink
- Vitreous china
- Front overflow
- D-shaped bowl
- Self-draining deck area with contoured back and side splash shields
- Faucet ledge

**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
- ☐ **0356.037** For wall hanger (included) or concealed arms support
  - Extra right-hand hole
- ☐ **0356.073** For wall hanger (included) or concealed arms support
  - Extra left-hand hole

**Faucet holes on 102mm (4") centers:**

- ☐ **0355.027** For exposed bracket support
- ☐ **0355.012** For wall hanger (included) or concealed arms support
- ☐ **0355.034** For wall hanger (included) or concealed arms support
  - Extra right-hand hole
- ☐ **0355.056** For wall hanger (included) or concealed arms support
  - Extra left-hand hole

**Single center faucet hole (Illus.):**

- ☐ **0356.041** For exposed bracket support  
Shown with 1340.000 metering faucet (not included)
- ☒ **0356.421** For wall hanger (included) or concealed arms support
- ☐ **0356.137** For wall hanger (included) or concealed arms support
  - Extra right-hand hole
- ☐ **0356.115** For wall hanger (included) or concealed arms support
  - Extra left-hand hole

**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 for Vitreous China Fixtures

**0356.028****0356.041**

SEE REVERSE FOR ROUGHING-IN DIMENSIONS

**To Be Specified:**

- ☒ Color: ☒ White ☐ Bone ☐ Silver
- ☐ Black ☐ Linen
- ☐ Faucet\*:
- ☐ Faucet Finish:
- ☐ Supplies:
- ☐ 1-1/4" Trap:
- ☐ Nipple:
- ☐ Bracket Support (by others):
- ☐ Concealed Arms Support (by others):

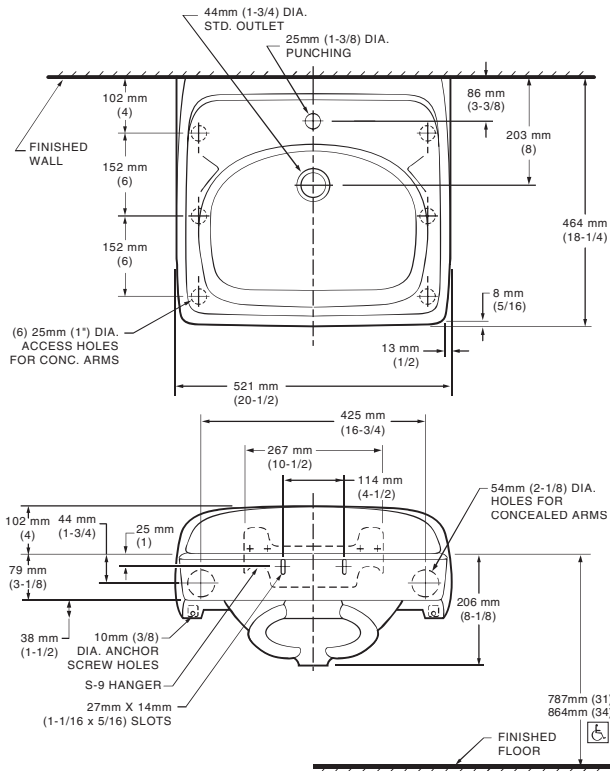
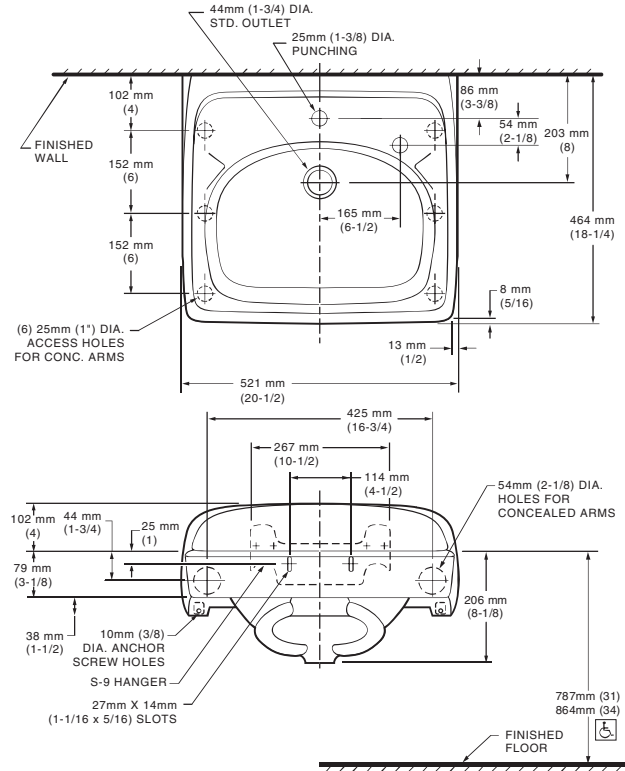
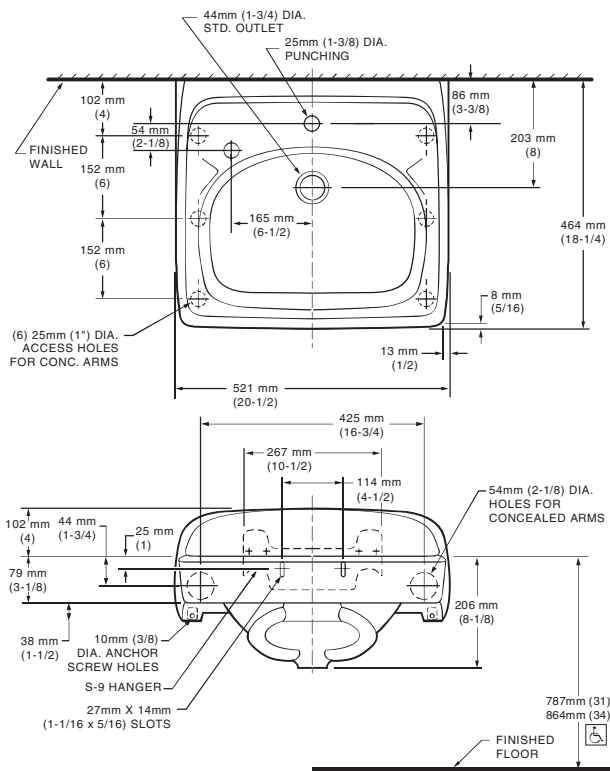
\* See faucet section for additional models available



**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.

**American Standard**

Style That Works Better

 **BARRIER FREE****LUCERNE™  
WALL-HUNG LAVATORY  
VITREOUS CHINA****0356.421** SINGLE CENTER HOLE FOR WALL HANGER OR CONCEALED ARMS**0356.137** SINGLE CENTER HOLE FOR WALL HANGER OR CONCEALED ARMS WITH EXTRA RIGHT HAND HOLE**0356.115** SINGLE CENTER HOLE FOR WALL HANGER OR CONCEALED ARMS WITH EXTRA LEFT HAND HOLE**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.**

# SLOAN® Faucets

## Sensor Activated Electronic Pedestal Faucet

# SF-2400 SF-2450 ✓

- **Description**  
Sensor Activated, Electronic, Pedestal Hand Washing Faucet for tempered or hot/cold water operation.
- **Models**
  - ☐ SF-2400 Series 6 VDC Plug-in Adapter Powered with Battery Backup
  - ☒ SF-2450 Series Battery Powered
- **Flow Rate**  
☒ 0.5 gpm/1.9 Lpm Max Flow Spray Head
- **Specifications**  
ADA Compliant, Sensor Activated, 6 VDC, Chrome Plated Brass, Pedestal Hand Washing Faucet with the following features:
  - Splash-proof Circuit Control Module
  - Adjustable Infrared Sensor Range
  - 36" (914 mm) Long Sensor Cable
  - 24" (610 mm) Long Flex Hose
  - Filtered Solenoid Valve with serviceable Strainer Filter
  - Bak-Chek® Tee for Hot/Cold Supply
  - 6 VDC Plug-in Adapter (Model SF-2400 only)
  - Non-aerated Spray Head
  - Includes Four (4) AA-size Batteries
  - Includes appropriate Mounting Hardware
  - Trim Plate Kit for 4" (102 mm) Centerset Sink
- **Variations (add suffix to Model Number for inclusion with Faucet)**
  - **Trim Plates (specify one)**
    - ☒ -4 4" Trim Plate for 4" Centerset Sink
    - ☐ -8 8" Trim Plate for 8" Centerset Sink
  - **Temperature Mixing Valve**
    - ☐ BDM MIX-60-A Below Deck Mechanical Mixing Valve
- **Accessories (specify separately)**
  - **Standard Outlets**
    - ☐ SFP-13 0.5 gpm/1.9 Lpm Spray Head
    - ☐ SFP-23 2.2 gpm/8.3 Lpm Aerator Spray Head
  - **Vandal Resistant Outlets**
    - ☐ EAF-15 0.5 gpm/1.9 Lpm Aerator Spray Head
    - ☐ SFP-24 2.2 gpm/8.3 Lpm Aerator Spray Head
  - **Adapters**
    - ☐ SFP-6 110 VAC/6 VDC Plug-in Adapter
    - ☐ SFP-20 220 VAC/6 VDC Type G Rectangular (UK) Plug-in Adapter
    - ☐ SFP-25 220 VAC/6 VDC Type C Round Pin (Euro) Plug-in Adapter
    - ☐ SFP-26 220 VAC/6 VDC Type A Flat Blade (Asia) Plug-in Adapter
    - ☐ SFP-35-A Gang Adapter Kit, includes 1 Plug-in Gang Adapter, 5 Splitter Cables and 1 Extension Cable
    - ☐ SFP-36 71" (1800 mm) 120 VAC/6 VDC Plug-in Gang Adapter
    - ☐ SFP-38 51" (1300 mm) Splitter Cable
    - ☐ SFP-37 51" (1300 mm) Extension Cable



- **ADA Compliant**
- **Automatic**  
Sloan SF-2400 and SF-2450 Electronic Pedestal Hand Washing Faucets operate by means of an infrared sensor. When the user enters the sensor's effective range, the Solenoid activates the water flow. Tempered water flows from the Faucet until the user steps away. The Faucet then automatically shuts off.
- **Hygienic**  
The ultimate in sanitary protection — there are no handles to turn or buttons to push. Helps to control the spread of infectious diseases.
- **Economical**  
Automatic operation provides water usage savings over other faucet devices. Reduces maintenance and operation costs.
- **Warranty**  
1 year (limited)
- **Compliant to:**  
ASME A112.18.1



This space for Architect/Engineer approval

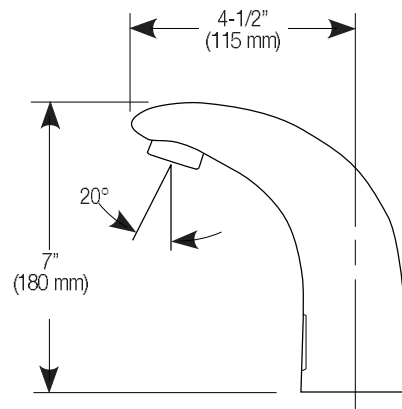
Job Name _____	Date _____
Model Specified _____	Quantity _____
Variations Specified _____	
Customer/Wholesaler _____	
Contractor _____	
Architect _____	

# SF-2400 SF-2450

- **Description**  
Sensor Activated, Electronic, Hand Washing Faucet for tempered or hot/cold water operation.
- **Models**
  - SF-2400 Series 6 VDC Plug-in Adapter Powered with Battery Backup
  - SF-2450 Series Battery Powered
- **Flow Rate**
  - 0.5 gpm/1.9 Lpm Max Flow Outlet

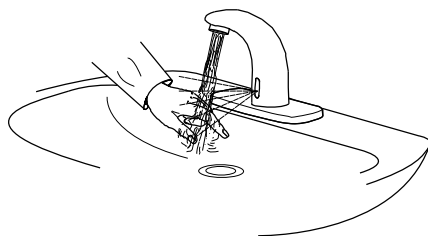
## ELECTRICAL SPECIFICATIONS

- **Control Circuit**  
6 VDC Input/Output
- **Adapter**  
6 VDC Plug-in (Model 2400 only)
- **Battery Life**  
Four (4) Alkaline AA Batteries 2 years at 8,000 cycles/month
- **Solenoid Valve**  
6 VDC, Serviceable Strainer, 3/8" Compression Inlet, 1/2" NPSM Outlet
- **Sensor Range**  
Nominal:  
4" - 7" (102 mm - 178 mm)

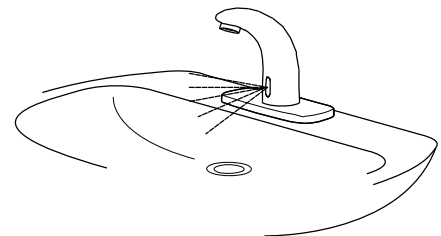


## OPERATION

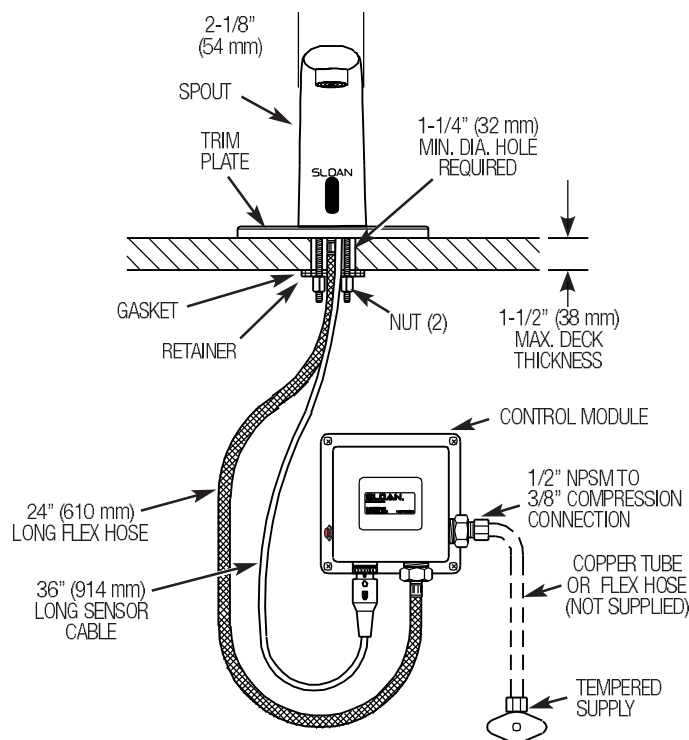
1. When a user's hands enter the sensing range, water flows from the spout.



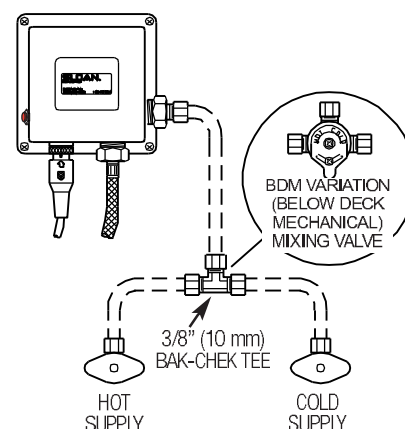
2. When hands are removed, the water flow stops.



## ROUGH-IN DIMENSIONS



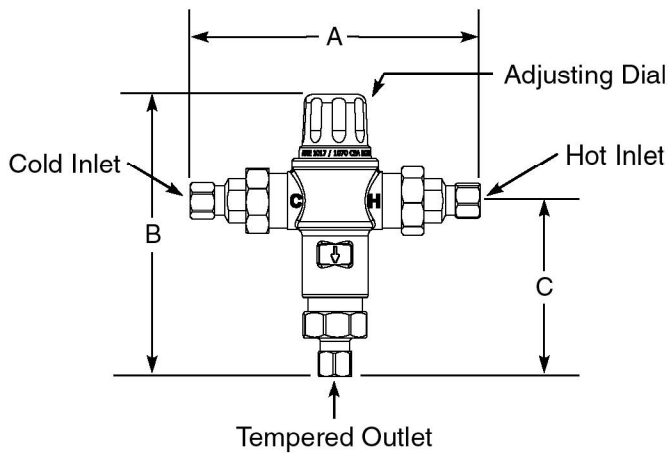
## HOT AND COLD WATER SUPPLY APPLICATIONS (SPECIFY IN MODEL VARIATION)



**SLOAN VALVE COMPANY • 10500 SEYMOUR AVENUE • FRANKLIN PARK, IL 60131**

Phone: 1-800-982-5839 or 1-847-671-4300 • Fax: 1-800-447-8329 or 1-847-671-4380 • [www.sloanvalve.com](http://www.sloanvalve.com)

www.lawlervalue.com

**DATA SHEET**

# Thermostatic Mixing Valve for Point of Use and Master Controlled Fixtures

## Model 570

### Unit No. 86820

Inlets & Outlet are  $\frac{3}{8}$ " Compression Fit

ASSE 1017 &amp; 1070 Approved

Certified to  
CSA B125.3

The mixing valve for point of use master controlled fixtures shall be a nickel plated thermostatic mixing valve. The mixing valve shall be  $\frac{3}{8}$ " Compression Fit. The mixing valve shall have a spindle to adjust outlet temperature. The mixing valve shall have internal checks. The mixing valve shall be Lawler model 570.

### Specifications

- Outlet temperature range: 95-115°F.
- Temperature, hot supply: 180°F max.
- Temperature, cold supply: 40-80°F.
- Temperature stability (nominal):  $\pm 5^\circ\text{F}$ .
- Temperature differential (between hot supply and outlet temperature): 10°F.
- Hydrostatic pressure: 125 psi max.
- Permitted supply pressure variation:  $\pm 20\%$ .
- Flow rate @ 45psi pressure loss: 7 gpm.
- Flow rate, minimum: .5 gpm.
- Flow rate, maximum: 8 gpm.

### Benefits

- Protects against scalding and chilling.
- Offers choice of temperature settings from 95° through 115°F.
- Easy installation.
- Backed by Lawler's One Year Warranty.
- ASSE 1017 & 1070 approved.

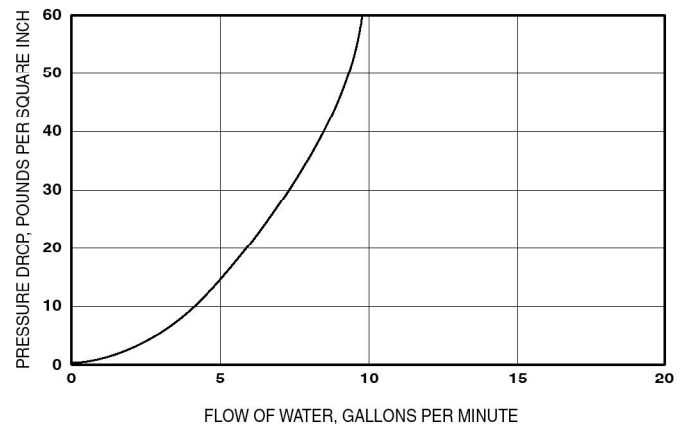
Engineer Approval ☐**MANUFACTURING CO., INC.**

5330 East 25th Street  
Indianapolis, Indiana 46218  
Phone (317) 261-1212  
Fax (317) 261-1208

### DIMENSIONS:

Valve Number	A	B	C
M 570	5.6"	5.4"	3.4"

FLOW CAPACITIES - MODEL 570



### CAPACITIES - MODEL 570

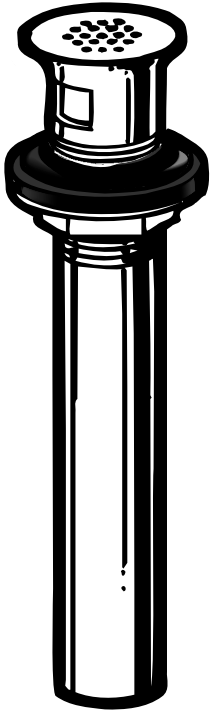
Pressure Drop PSI	5	10	20	40
Valve Number	Capacity			
570-GPM	3	4	5	6.5
570-LPM	11	15	19	25

### Temperature Adjustment

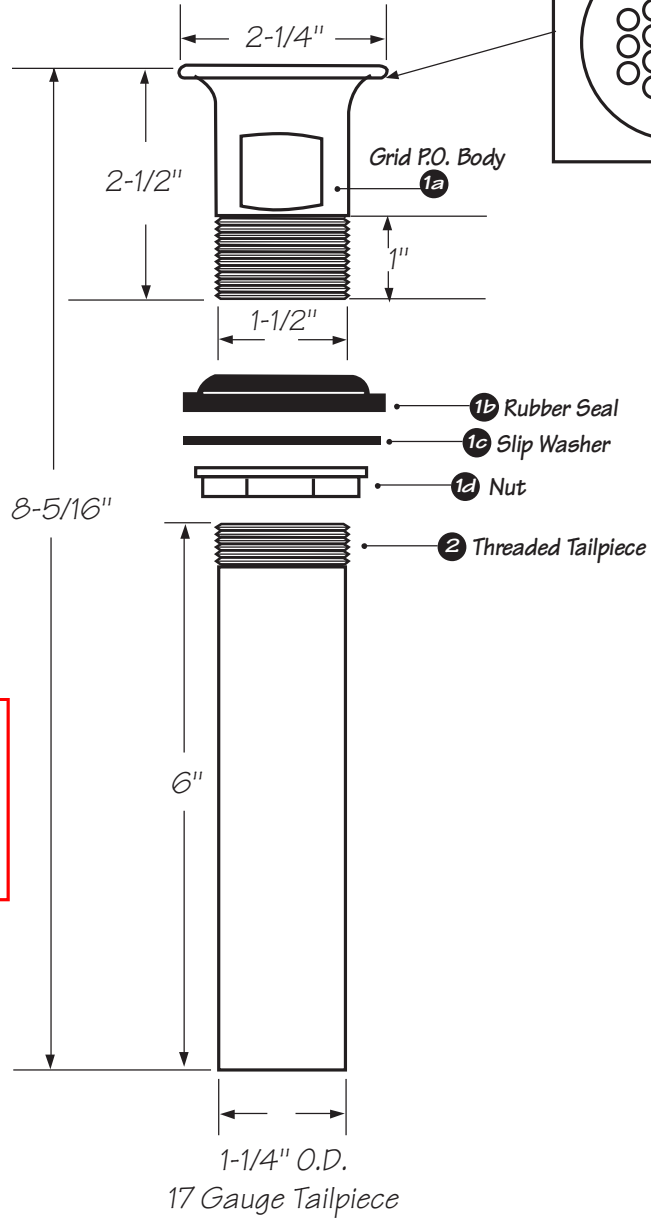
To adjust the mixed outlet temperature of the valve, remove the cap to gain access to the adjusting spindle. The spindle should be rotated-clockwise to reduce the temperature, counter-clockwise to increase the temperature until the desired set point is reached.

**Note:** For ASSE 1017 & 1070 applications.

Design and specification subject to change without notice.



19 Hole Pattern  
0.20" hole size



Alternate equal to  
MCGUIRE MODEL  
155A

1	370	Grid P.O. Body Assembly	<div>OS&amp;B</div> <div>OAKVILLE STAMPING &amp; BENDING</div>		
			Date: March 31/00	Approved by:	Drawn by: S.Black
2	4831-6	17 Gauge Tailpiece	Scale: not to scale		Revision: 01
			Product: P.O. Plug		Number: 3700




**McGUIRE MFG. CO., INC.**

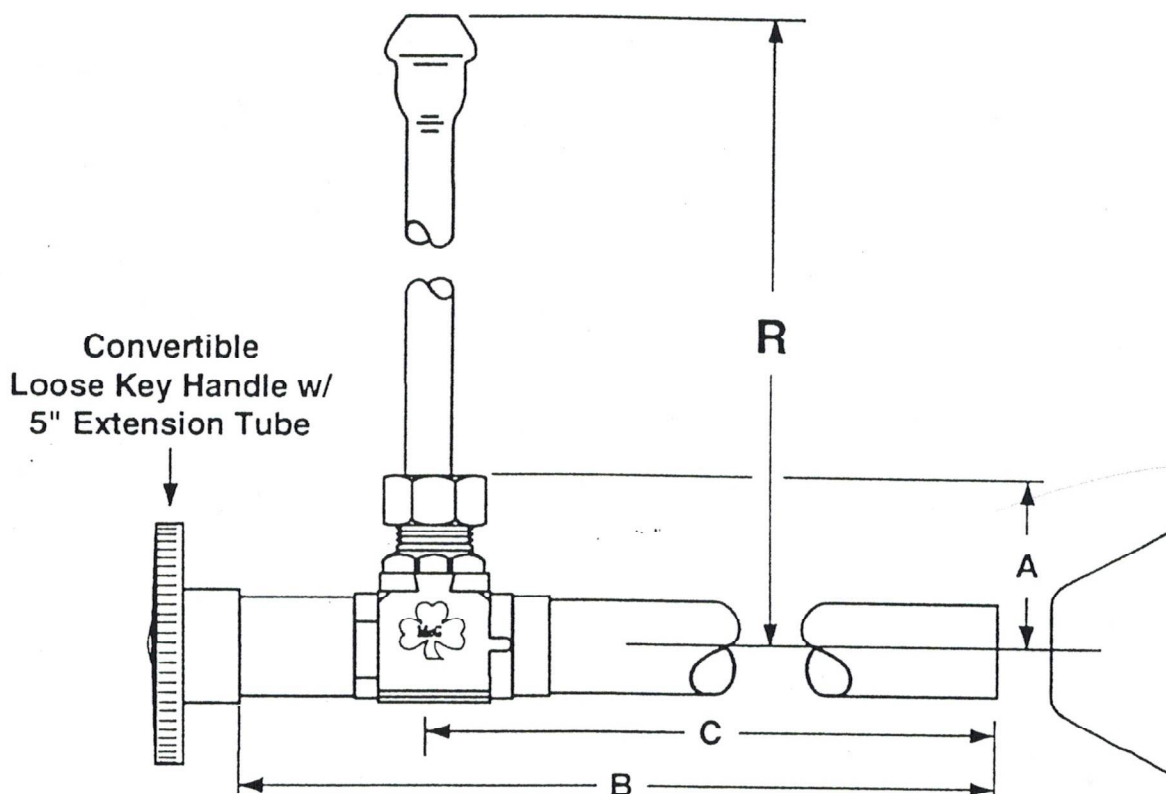
 60 Grandview Court  
 P.O. Box 746 ♣ Cheshire, CT 06410  
 203-699-1801 ♣ Fax 203-699-1813  
 www.mcguiremfg.com

**Product Specification**
**Part No.**
**H170LK-BV-RB**

 Quarter-Turn Brass Ball Valve  
 Lavatory Supply  
 with 5" Extension

**Job Name:**
**Submittal Number:**

RB = SS Braided Risers

**Convertible™**


MODEL NO.	ROUGHING MEASUREMENTS	A	B	C	R
H170LK-BV	1/2" Sweat x 3/8" O.D.	1-1/4"	7-3/8"	5-13/16"	12, 15, 16, 20, 36

 For braided stainless riser add suffix SS and number for length 12, 16, 20, 36.  
 See options and accessories section for details on product variations.

**Specifications:**

Supply kit shall include commercial pattern chrome plated Quarter-Turn Brass Ball Valve with convertible loose key handle (chrome plated copper, or braided stainless risers) and (shallow, deep, bell) (steel, brass) or (forged brass with set screw) flange. Inlet shall be (1/2) inch (IPS, sweat, compression). Outlet shall be (3/8) inch (compression). Supply kit shall be McGuire \_\_\_\_\_. Supply kit shall be certified by CSA or other recognized testing authority and bear manufacturer and testing mark. Stop to be certified to 200 psi line pressure.



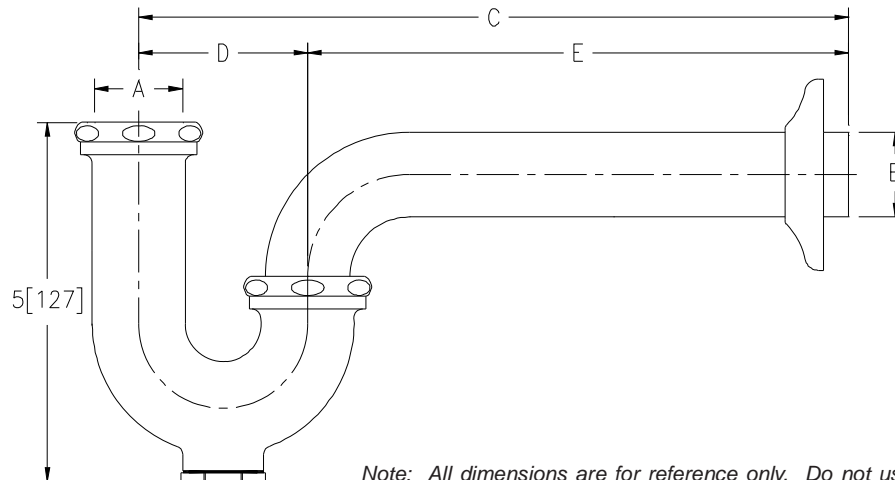
# SEMI-CAST P-TRAPS WITH WALL BEND

## 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 only. Do not use for pre-plumbing.

PRODUCT NUMBER	A INLET in[mm]	B OUTLET in[mm]	GAUGE	DIMENSIONS			MASTER CARTON	WEIGHT CARTON [lbs]
				C in[mm]	D in[mm]	E in[mm]		
✓ 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
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#### OPTIONAL ACCESSORIES

Suffix	Description
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___ -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



WCA-411/WCA-411-WC

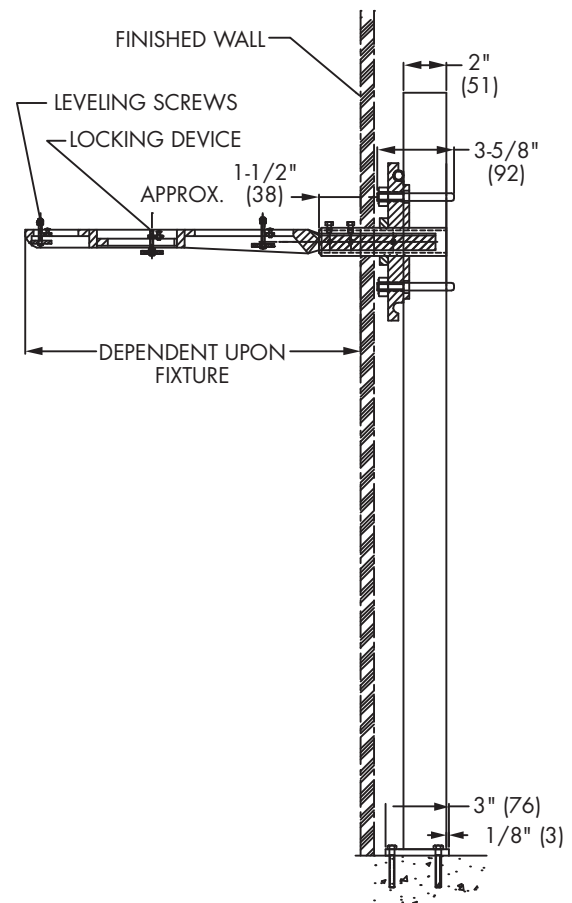
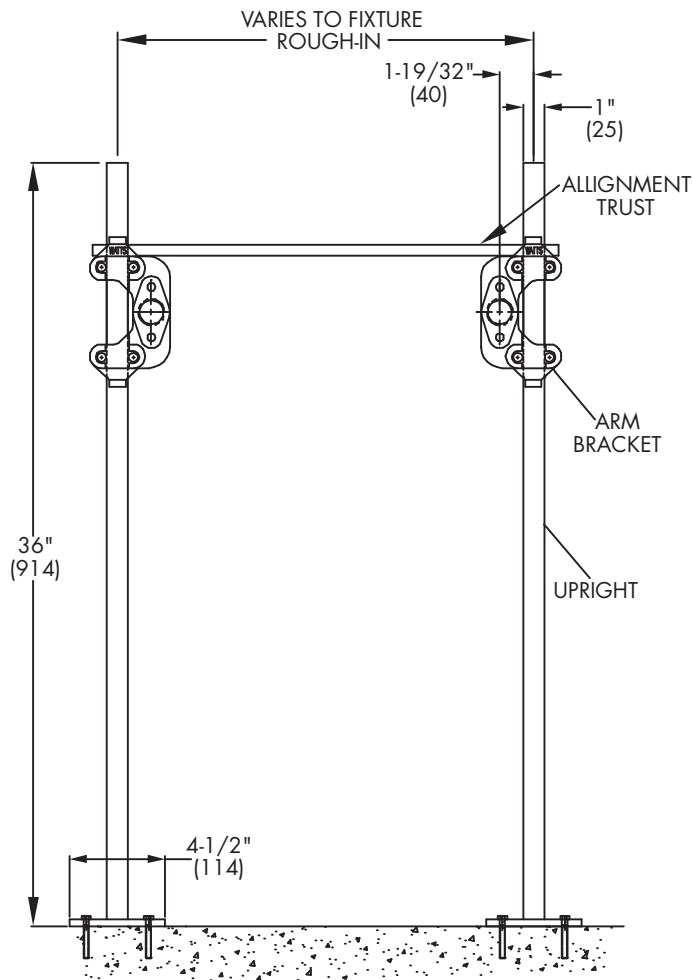
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## Floor Mounted Lavatory Carrier with Concealed Arms

**SPECIFICATION:** Watts Drainage WCA-411/WCA-411-WC\* floor mounted concealed arm lavatory carrier with heavy gauge steel offset uprights with integral welded feet, adjustable epoxy coated cast iron arms with levelling screws and basin locking device, upper tie rod, and plated hardware.

Options (Select One or More)		
Suffix	Description	
-M42	42" Long Carrier Leg	<input type="checkbox"/>
-M54	2" Chrome Plated Escutcheons, Single	<input type="checkbox"/>
-M55	4" Chrome Plated Escutcheons, Single	<input type="checkbox"/>
-M60	Knee-Operated Valve Support Plate, Single	<input type="checkbox"/>
-US	Buy American Compliant	<input type="checkbox"/>

**\* SPECIFY CA-411-WC FOR  
27"x 20" (675x500) LAVATORIES**



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

Job Name \_\_\_\_\_ Contractor \_\_\_\_\_

Job Location \_\_\_\_\_ Contractor's P.O. No. \_\_\_\_\_

Engineer \_\_\_\_\_ Representative \_\_\_\_\_

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



**Specification Drainage Products**

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



**QCLA2027L/8**  
**QCLA2027R/8**



**QCLA2027L/8 SHOWN**



**Included Accessories**



CA1W

**Optional Accessories**



DBR10S



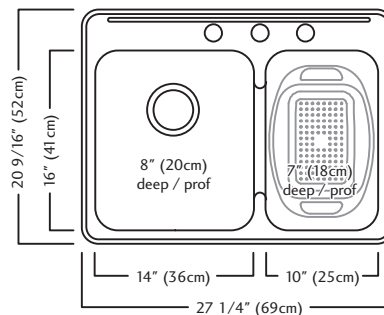
MB1610



BC10S



BG13S



## QCLA2027L/8 AND QCLA2027R/8 SPECIFICATION

Model QCLA2027L/8 (small bowl left) QCLA2027R/8 (small bowl right) is a large bowl/small bowl sink with Spillway and faucet ledge manufactured by Franke Kindred Canada Limited from 20 gauge, 18-8 stainless steel. Product has a bright mirror finished rim and satin finished bowls. Sink is fully undercoated. Basket strainer waste fittings (3 1/2", 89 mm) and installation kit are included. Sink is backed with a limited buyer lifetime warranty.

- O.D. 20 9/16" x 27 1/4" x 8" (small bowl is 7" deep) 52 x 69 x 20 cm (small bowl is 18 cm deep)
- **Recommended for minimum 30" cabinet**

QCLA2027R/8/3	3 hole, 1 1/2" diameter, 4" center-to-center	FUN#101.0202.031
QCLA2027R/8/1	1 hole on centre	FUN#101.0202.029
QCLA2027L/8/3	3 hole, 1 1/2" diameter, 4" center-to-center	FUN#101.0202.172
QCLA2027L/8/1	1 hole on center	FUN#101.0202.160

# Manual Sink Faucets 1100-GN8AE35-317AB

**CHICAGO  
FAUCETS®**  
Geberit Group

## Product Type

Deck-mounted manual faucet with 8" centers

## Features & Specifications

- 
- 8" fixed centers
- 8" rigid/swing gooseneck spout
- Pressure compensating Softflo aerator 1.5 GPM
- Vandal Proof 4" wristblade handle
- Quatern™ compression operating cartridge, right-hand
- Quatern™ compression operating cartridge, left-hand
- ECAST® design provides durable cast brass construction with total lead content equal to or less than 0.25% by weighted average
- Complies with the requirements of the Buy American Act of 1933.
- CFNow! Item Ships in 3 Days






## Performance Specification

- 
- Rated Operating Temperature: 40-140°F

## Warranty

- 
- Lifetime Limited Faucet Warranty
- 1-Year Limited Finish Warranty

## Codes & Standards

-   ASME A112.18.1/CSA B125.1
- Complies with CALGreen requirements
-  NSF/ANSI/CAN 372 Low Lead Content
-  NSF/ANSI/CAN 61: Q ≤ 1
-  Certified to WaterSense by ICC-ES

Job Name \_\_\_\_\_

Item Number \_\_\_\_\_

Section/Tag \_\_\_\_\_

Model Specified \_\_\_\_\_

Architect \_\_\_\_\_

Engineer \_\_\_\_\_

Contractor \_\_\_\_\_

☐ Submitted as Shown

☐ Submitted with Variations

Date \_\_\_\_\_



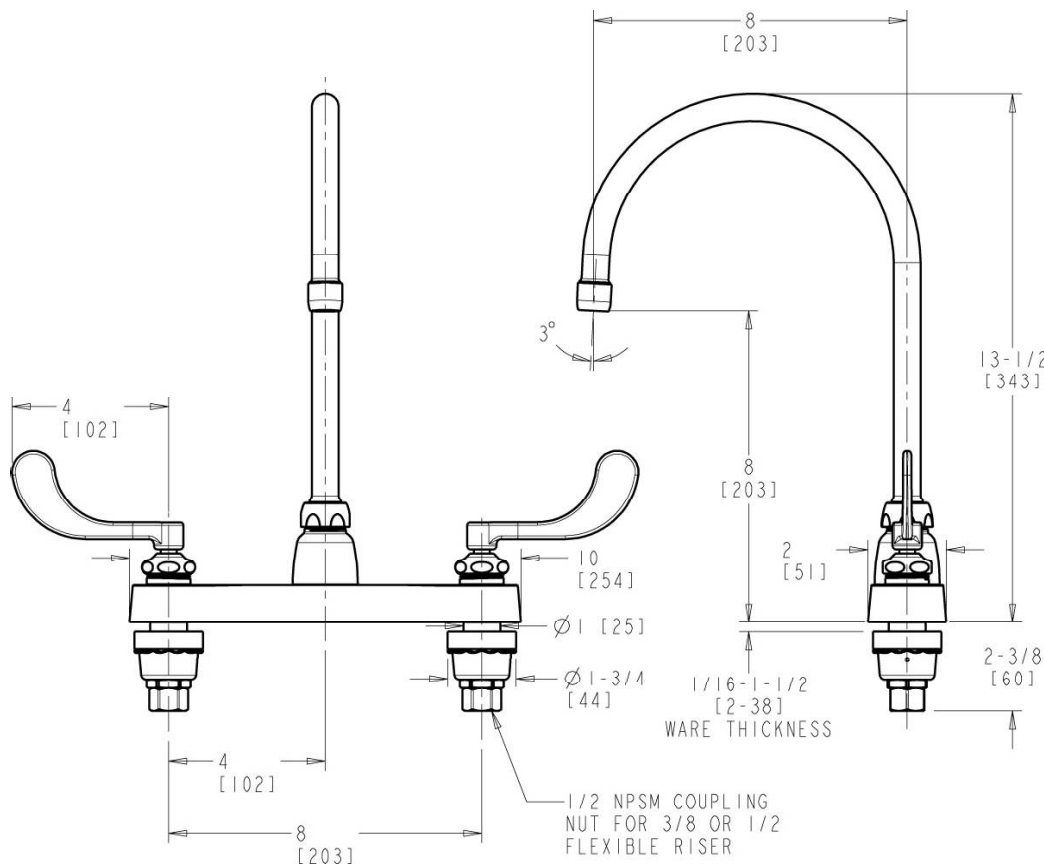
### ECAST

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.

2100 South Clearwater Drive  
Des Plaines, IL  
P: 847/803-5000  
F: 847/803-5454  
Technical: 800/TEC-TRUE  
www.chicagofaucets.com

**1100-GN8AE35-317AB****Architect/Engineer Specification**

Chicago Faucets No. 1100-GN8AE35-317AB, Sink Faucet for hot and cold water, deck-mounted with 8" fixed centers, chrome plated. Rigid/swing gooseneck spout, 8" center-to-center. 1.5 GPM (5.7 L/min) pressure compensating Softflo aerator. 4" metal, vandal-proof, wristblade handles with sixteen-point, tapered broach and secured blue and red index buttons. Quatern™ rebuildable compression cartridge, opens and closes 90°, closes with water pressure, features square, tapered stem. 1/2" NPSM supply inlets and coupling nut for 3/8" or 1/2" flexible riser. Mounting hardware included. ECAST® construction with less than 0.25% lead content by weighted average. CALGreen compliant. This product meets ADA ANSI/ICC A117.1 requirements and is tested and certified to industry standards: ASME A112.18.1/CSA B125.1, Certified to NSF/ANSI 61, Section 9, California Health and Safety Code 116875 (AB1953-2006), Vermont Bill S.152, NSF/ANSI 372 Low Lead Content, and California Green Building Standards Code (CALGreen).

**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](http://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.







model 7620

Faucet Mounted Eyewash AXION® eyePOD®

## FEATURES & BENEFITS

### ACTIVATION

Easy one motion rotation (in either direction) to activate/deactivate the use of the unit.

### THERMOSTATIC PROTECTION

Thermostatic protection that will protect the user from water over 100° F (37.8° C) by shutting off the eyewash.

### INSTALLATION

Easy to install on a wide variety of sink faucets (not included) using a standard 55/64-27 thread stainless steel faucet connection, along with four additional adaptors provided (15/16-27 male, 13/16-27 male, 3/8-18 male and 13/16-24 female).

### FINISH

The stainless steel construction is rugged enough for any industrial application, and the polished surface is cosmetically suited for any professional office setting.

### EYEWASH

AXION® eyePOD® eyewash head (patent pending) uses an inverted directional laminar flow to sweep contaminants away from the vulnerable nasal cavity.



## OPTIONS

To see all options for this model, visit [www.hawesco.com](http://www.hawesco.com)

## SPECIFICATIONS

Model 7620 AXION® eyePOD® faucet mounted eyewash (patent pending). Constructed of stainless steel with a polished finish, the unit shall feature inverted directional laminar flow which achieves zero vertical velocity supplied by an integral .9 gpm (3.4 L) flow control. The faucet outlet flows at .5 gpm (1.9 L). The standard faucet connection is 55/64-27 stainless steel female thread, along with four additional aerators adapting this size to; 15/16-27 male, 13/16-27 male, 3/8-18 male and 13/16-24 female. An optional 1 gpm (3.8 L) laminar flow faucet outlet is also supplied. A thermostatic shutoff is used for water temperatures over 100°F (37.8°C). Operating pressure; 30-90 psi (2.1 - 6.2 bar).

## APPLICATIONS

Where safety is of the utmost importance and the eyes of any person may be exposed to injurious or corrosive materials, suitable facilities for quick flushing and cleansing of the eyes be provided within the work area for immediate emergency use. Model is Certified by CSA to meet the ANSI Z358.1 (provided input water is within tepid temperature range) and ASME A112.18.1/CSA B125.1 standards for Emergency Eyewash and Shower Equipment. Product is compliant to NSF 61 and California Health and Safety Code 116875 (AB 1953), along with all current Federal Regulations for the disabled including those in the Americans with Disabilities Act.





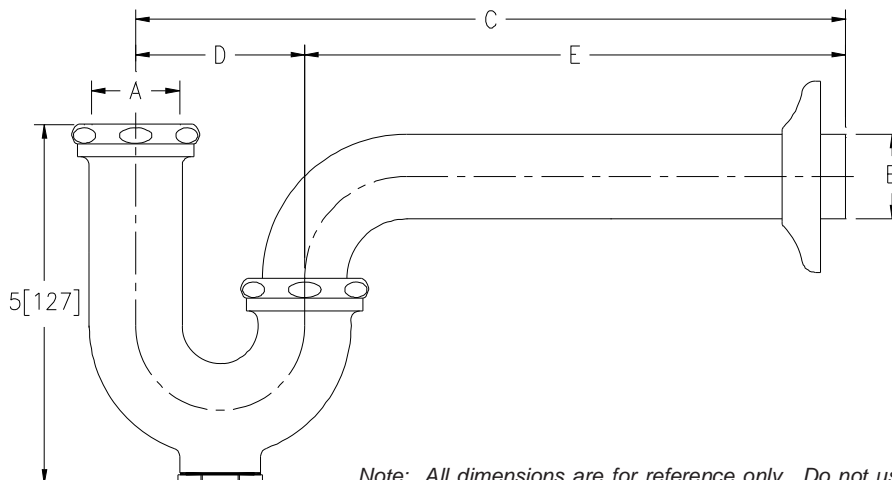
# SEMI-CAST P-TRAPS WITH WALL BEND

## 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 only. Do not use for pre-plumbing.

PRODUCT NUMBER	A INLET in[mm]	B OUTLET in[mm]	GAUGE	DIMENSIONS			MASTER CARTON	WEIGHT CARTON [lbs]
				C in[mm]	D in[mm]	E in[mm]		
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
✓ -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

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Alternate equal to KURAI DORI S.S.  
SINK, 20-1/2" x 31-1/4" x 7"

LBD6407-1  
Double Sink



#### Specification:

Double compartment sink with faucet ledge. 20 gauge, type 302, 18-8 stainless steel. Self rimming. Exposed surfaces are satin finished. Spillway® between bowls. Undercoated to reduce condensation and resonance. Complete with factory applied rim seal, Universal Installation System hardware, cutout template and 3 1/2" crumb cup waste assembly, location center back.

**Compartment Size:** 16" x 14" x 7" (41 cm x 36 cm x 18 cm)

**Overall Size:** 20 1/2" x 31 1/4" (52 cm x 79 cm)

#### Faucet hole drilling options:

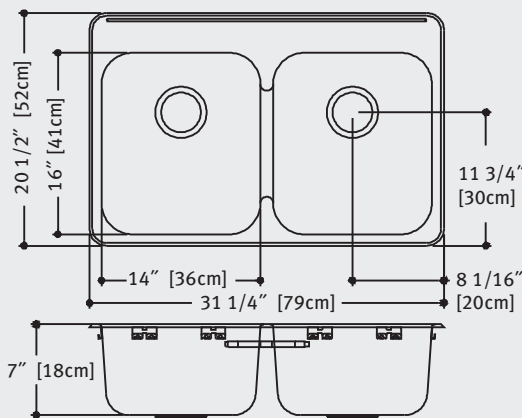
- ☐ LBD6407-1/1 1 hole, 1 1/2" diameter
- ☒ LBD6407-1/3 3 hole, 1 1/2" diameter, 4" centers, 8" centerset
- ☐ LBD6407-1/4 4 hole, as 3 hole above, plus 1 hole 4" to the right
- ☐ LBD6407-1 Custom (non-returnable)

\*For custom please specify drilling requirements.

#### Notes:

- Electronic specifications, reference [www.kindred-sinkware.com](http://www.kindred-sinkware.com)

NOTE: Comes with 1130 waste assembly w/ tailpiece



cUPC®

#### PROJECT INFORMATION

Project Name: \_\_\_\_\_

Item Reference: \_\_\_\_\_

Location: \_\_\_\_\_

Quote #: \_\_\_\_\_

Faucet Model #: \_\_\_\_\_

Drillings Required: \_\_\_\_\_

Notes: \_\_\_\_\_

# MECHANICAL FAUCETS

## 1100-L9VPAXKABCP

### Manual Sink Faucets

#### Product Type

Deck Mounted 8" Fixed Centers Hot and Cold Water Sink Faucet

#### Features & Specifications

- 8" Fixed Centers
- 9-1/2" L Type Swing Spout
- 2.2 GPM (8.3 L/min) Vandal Proof Aerator
- 2" Vandal Proof Canopy Single Wing Handles
- Ceramic 1/4-Turn Operating Cartridge 1/4 Turn Operating Cartridges
- 1/2" NPSM Supply Inlets and Coupling Nut for 3/8" or 1/2" Flexible Riser
- ECAST® design provides durable construction with total lead content equal to or less than 0.25% by weighted average
- CFNow! Item Ships in 3 Days

#### Performance Specification

- Rated Operating Pressure: 20-125 PSI
- Rated Operating Temperature: 40-140°F

#### Warranty

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

#### Codes & Standards

- ASME A112.18.1/CSA B125.1
- Certified to NSF/ANSI 61, Section 9 by CSA
- ADA ANSI/ICC A117.1

Job Name \_\_\_\_\_

Item 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.

2100 South Clearwater Drive  
 Des Plaines, IL  
 P: 847/803-5000  
 F: 847/803-5454  
 Technical: 800/TEC-TRUE  
 www.chicagofaucets.com

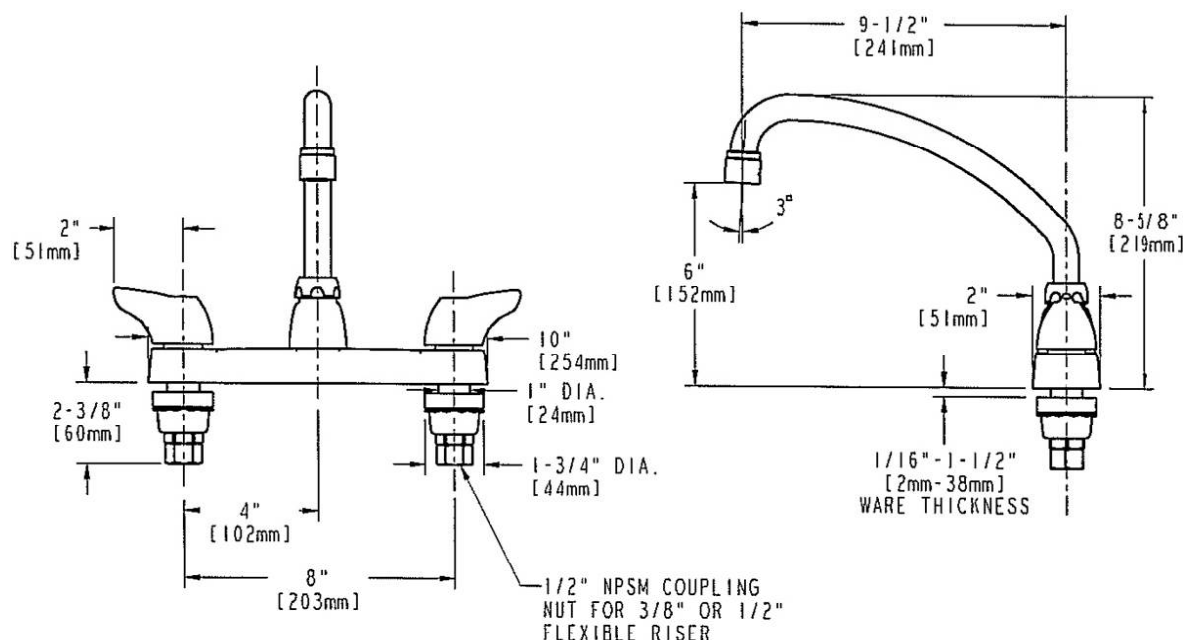


# 1100-L9VPAXKABCP

## Manual Sink Faucets

### Architect/Engineer Specification

Chicago Faucets No. 1100-L9VPAXKABCP, Sink Faucet for hot and cold water, deck-mounted with 8" fixed centers, chrome plated. L-Type swing spout, 9-1/2" center-to-center. 2.2 GPM (8.3 L/min) pressure compensating vandal-proof Softflo aerator. 2" metal, vandal-proof, canopy, single-wing handles with secured blue and red index buttons. Ceramic quarter-turn cartridge, features square, tapered stem. 1/2" NPSM supply inlets and coupling nut 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, and Certified to NSF/ANSI 61, Section 9 by CSA.



### 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](http://www.chicagofaucets.com).

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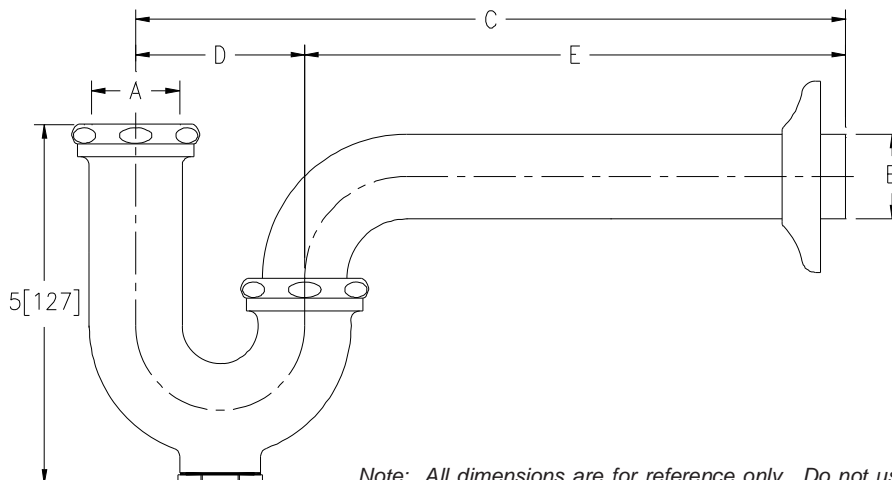
# SEMI-CAST P-TRAPS WITH WALL BEND

## 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 only. Do not use for pre-plumbing.

PRODUCT NUMBER	A INLET in[mm]	B OUTLET in[mm]	GAUGE	DIMENSIONS			MASTER CARTON	WEIGHT CARTON [lbs]
				C in[mm]	D in[mm]	E in[mm]		
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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
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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
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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

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

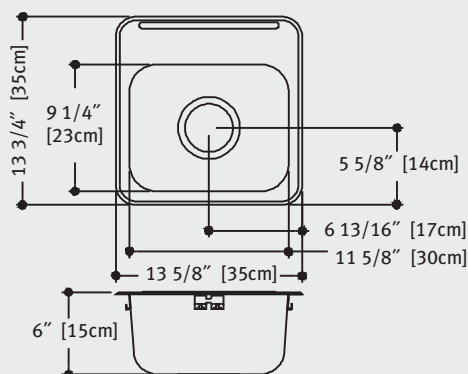
\*\* SHIPPED WITH BRASS NUTS UNLESS OTHERWISE SPECIFIED

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





#### Specification:

ADA compliant. Single compartment sink with faucet ledge. 20 gauge, type 302, 18-8 stainless steel. Self rimming. Exposed surfaces are satin finished. Undercoated to reduce condensation and resonance. Includes factory applied rim seal, cutout template, Universal Installation System hardware and waste assembly, location center.

**Compartment Size:** 9 1/4" x 11 5/8" x 6" (23cm x 30cm x 15cm)

**Overall Size:** 13 3/4" x 13 5/8" (35cm x 35cm)

#### Waste Options:

-1 = 3 1/2" (89mm) crumb cup waste assembly.

-3 = 1 1/2" (38mm) duplex waste assembly, with rubber stopper.

#### 3 1/2" waste

☒ LBS9106-1/1

☐ LBS9106-1/2

☐ LBS9106-1

#### 1 1/2" waste

☐ LBS9106-3/1

☐ LBS9106-3/2

☐ LBS9106-3

#### Faucet hole drilling options

1 hole, 1 1/2" diameter

2 hole, 1 1/2" diameter, 4" centers

Custom (non-returnable)

\*For custom please specify drilling requirements.

#### Notes:

- Electronic specifications, reference [www.kindred-sinkware.com](http://www.kindred-sinkware.com)
- The model as constructed is subject to the interpretation of local building codes. Check ADA, local wheelchair accessibility guidelines and local building codes to ensure the unobstructed knee space is achieved after installation.

#### PROJECT INFORMATION

Project Name: \_\_\_\_\_

Item Reference: \_\_\_\_\_

Location: \_\_\_\_\_

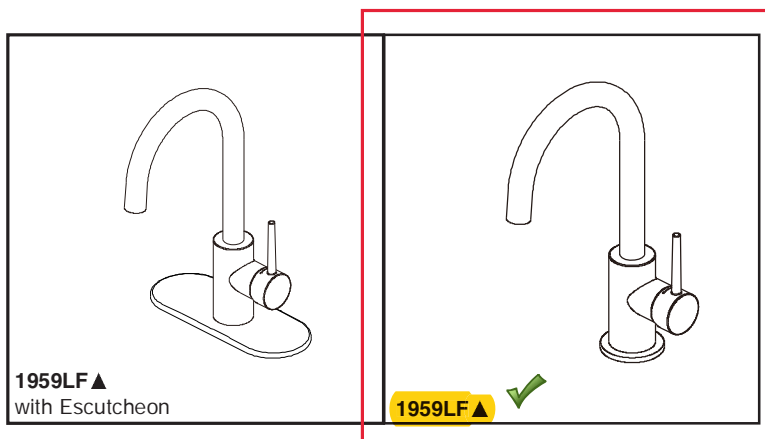
Quote #: \_\_\_\_\_

Faucet Model #: \_\_\_\_\_

Drillings Required: \_\_\_\_\_

Notes: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



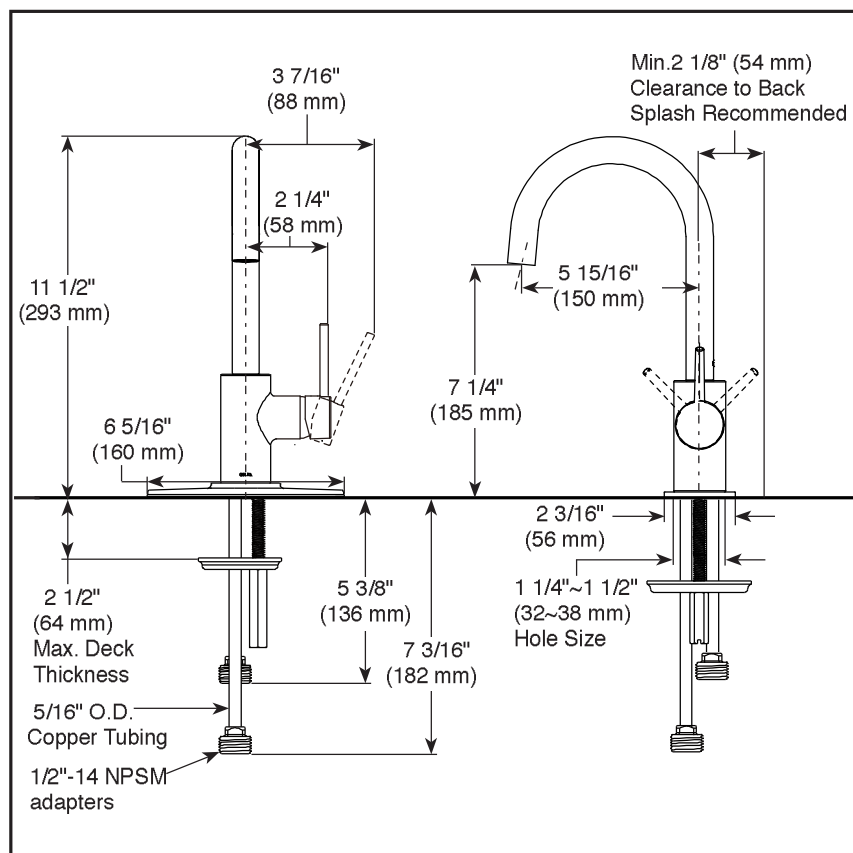
see what Delta can do™

## BAR & PREP SINK FAUCETS

- Contemporary
- Single Handle Deck Mount

Submitted Model No.: \_\_\_\_\_

Specific Features: \_\_\_\_\_



▲ Designate proper finish suffix


### STANDARD SPECIFICATIONS

- One or three hole mount (escutcheon optional, not included)
- Max flow rate 1.5 gpm @ 60 psi, 5.7 L/min @ 414 kPa
- Solid brass fabricated body
- Spout rotates 120°
- Hot/Cold logo on handle to indicate temperature
- Ceramic disc cartridge
- 5/16" staggered copper supply lines with 1/2" adapters
- ADA compliant lever handle
- Order RP77702 for optional escutcheon
- Order RP1001 for coordinating soap dispenser

### WARRANTY

- Parts and Finish - Lifetime limited warranty; or for commercial purchasers, 10 years for multi-family residential (apartments and condominiums) and 5 years for all other commercial uses, in each case from the date of purchase.
- Electronic Parts and Batteries (if applicable) - 5 years from the date of purchase; or for commercial purchasers, 1 year from the date of purchase. No warranty is provided on batteries.

### COMPLIES WITH:

- ASME A112.18.1 / CSA B125.1
-  Indicates compliance to ICC/ANSI A117.1

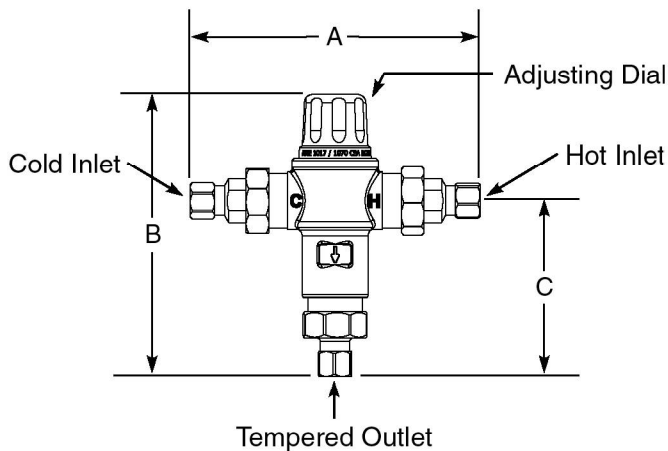
Delta reserves the right (1) to make changes in specifications and materials, and (2) to change or discontinue models, both without notice or obligation. Dimensions are for reference only. See current full-line price book or [www.deltafaucet.com](http://www.deltafaucet.com) for finish options and product availability.

DSP-K-1959LF Rev. D

### Delta Faucet Company

55 E. 111th Street, Indianapolis, IN 46280  
350 South Edgeware Road, St. Thomas, ON N5P 4L1  
© 2019 Delta Faucet Company

www.lawlervalue.com

**DATA SHEET**

# Thermostatic Mixing Valve for Point of Use and Master Controlled Fixtures

## Model 570

### Unit No. 86820

Inlets & Outlet are  $\frac{3}{8}$ " Compression Fit

ASSE 1017 &amp; 1070 Approved

Certified to  
CSA B125.3

The mixing valve for point of use master controlled fixtures shall be a nickel plated thermostatic mixing valve. The mixing valve shall be  $\frac{3}{8}$ " Compression Fit. The mixing valve shall have a spindle to adjust outlet temperature. The mixing valve shall have internal checks. The mixing valve shall be Lawler model 570.

### Specifications

- Outlet temperature range: 95-115°F.
- Temperature, hot supply: 180°F max.
- Temperature, cold supply: 40-80°F.
- Temperature stability (nominal):  $\pm 5^\circ\text{F}$ .
- Temperature differential (between hot supply and outlet temperature): 10°F.
- Hydrostatic pressure: 125 psi max.
- Permitted supply pressure variation:  $\pm 20\%$ .
- Flow rate @ 45psi pressure loss: 7 gpm.
- Flow rate, minimum: .5 gpm.
- Flow rate, maximum: 8 gpm.

### Benefits

- Protects against scalding and chilling.
- Offers choice of temperature settings from 95° through 115°F.
- Easy installation.
- Backed by Lawler's One Year Warranty.
- ASSE 1017 & 1070 approved.

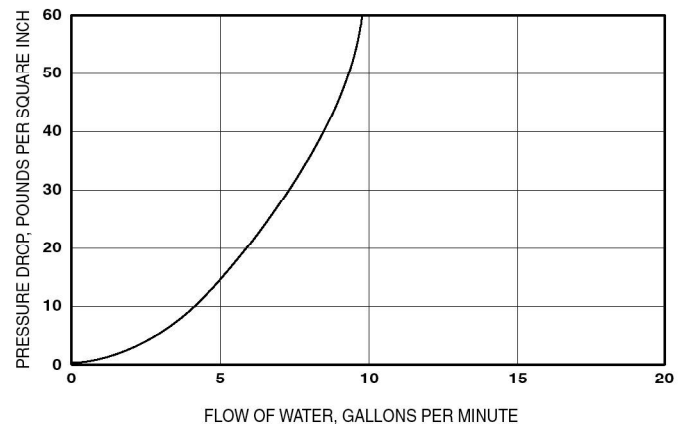
Engineer Approval ☐**MANUFACTURING CO., INC.**

5330 East 25th Street  
Indianapolis, Indiana 46218  
Phone (317) 261-1212  
Fax (317) 261-1208

### DIMENSIONS:

Valve Number	A	B	C
M 570	5.6"	5.4"	3.4"

FLOW CAPACITIES - MODEL 570



### CAPACITIES - MODEL 570

Pressure Drop PSI	5	10	20	40
Valve Number	Capacity			
570-GPM	3	4	5	6.5
570-LPM	11	15	19	25

### Temperature Adjustment

To adjust the mixed outlet temperature of the valve, remove the cap to gain access to the adjusting spindle. The spindle should be rotated-clockwise to reduce the temperature, counter-clockwise to increase the temperature until the desired set point is reached.

**Note:** For ASSE 1017 & 1070 applications.

Design and specification subject to change without notice.



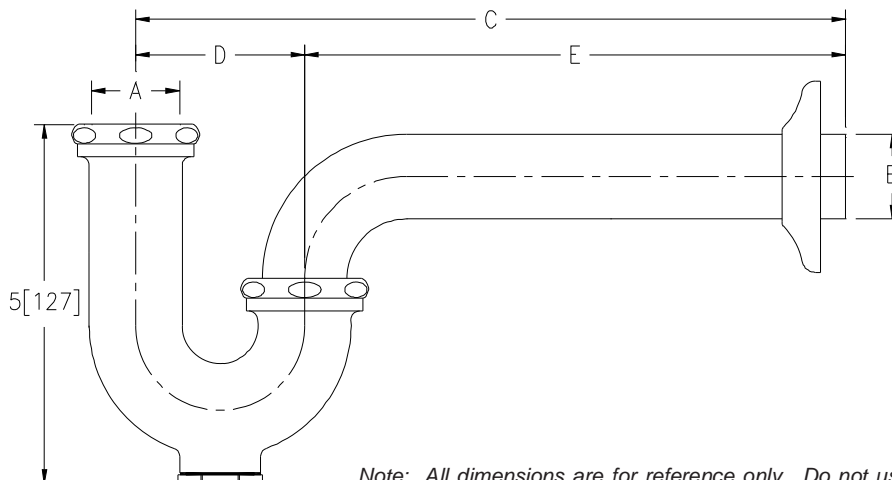
# SEMI-CAST P-TRAPS WITH WALL BEND

## 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 only. Do not use for pre-plumbing.

PRODUCT NUMBER	A INLET in[mm]	B OUTLET in[mm]	GAUGE	DIMENSIONS			MASTER CARTON	WEIGHT CARTON [lbs]
				C in[mm]	D in[mm]	E in[mm]		
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
✓ -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

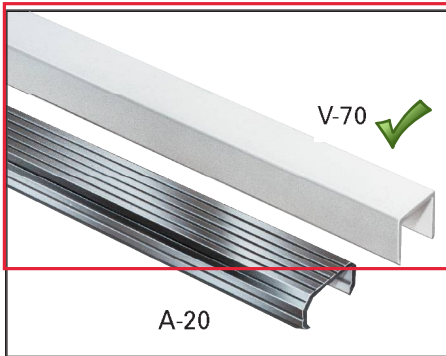
Model No. ( ) Size ( ), as manufactured by Stern-Williams Co., Inc. Shoulders shall not be less than 8" high inside measurement, and not less than 1-1/4" wide. Drain shall be cast brass with stainless steel strainer cast integral and shall provide for a caulked lead connection not less than 1" deep to a 3" pipe. Receptor composed of pearl grey marble chips and white Portland cement ground smooth, grouted and sealed to resist stains.




An optional anodized extruded aluminum or vinyl bumper guard is offered for exposed sides. Cap to be attached on the job.

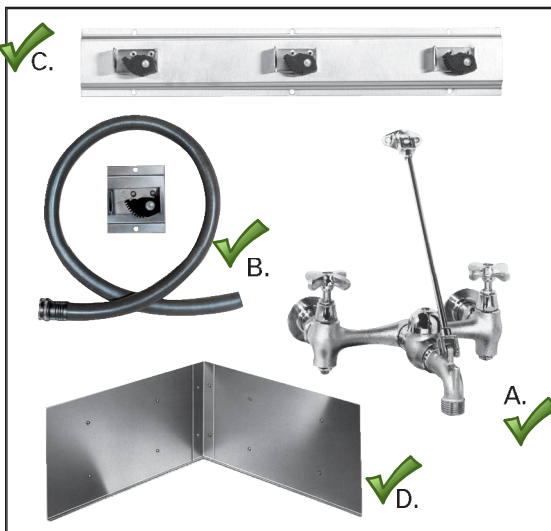
STERN

**WILLIAMS**

## MTB® ARCHITECTURAL SPECIFICATIONS



MODEL	SIZE	ALUMINUM OR VINYL CAP FOR EXPOSED SIDES		
MTB SQUARE BASIN				
 MTB-2424	24"x24"x10"	<input type="checkbox"/> CAP ON 1 SIDE	<input type="checkbox"/> CAP ON 2 SIDES	<input type="checkbox"/> CAP ON 3 SIDES
MTB RECTANGULAR BASIN				
<input type="checkbox"/> MTB-3624	36"x24"x10"	<input type="checkbox"/> CAP ON 1 SIDE	<input type="checkbox"/> CAP ON 2 SIDES	<input type="checkbox"/> CAP ON 3 SIDES
A-20  Aluminum bumper guards				
V-70  Vinyl bumper guards				
-SS Stainless steel caps, cast integral during production				



### QUALITY OPTIONAL FITTINGS

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

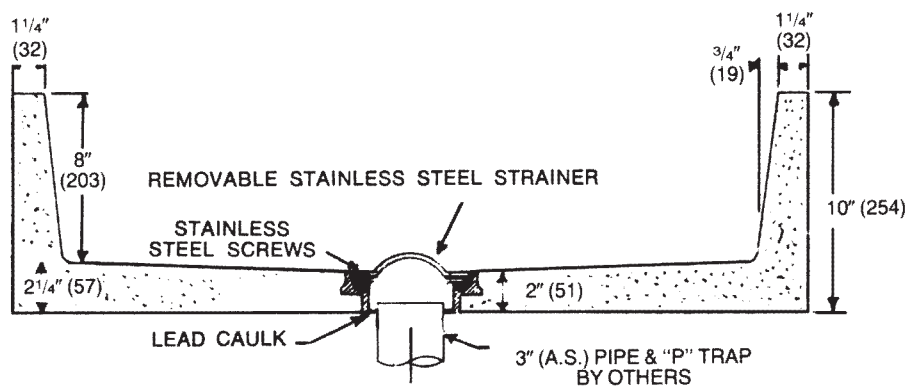
JOB

ARCHITECT

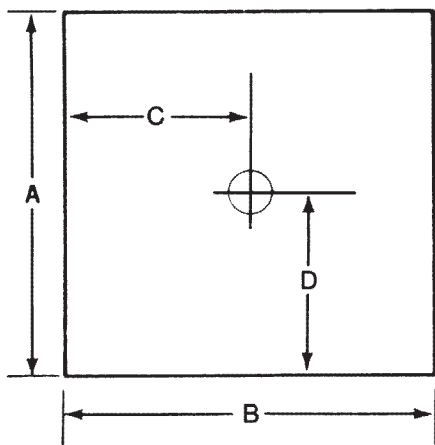
LOCATION

ENGINEER

## CROSS SECTION

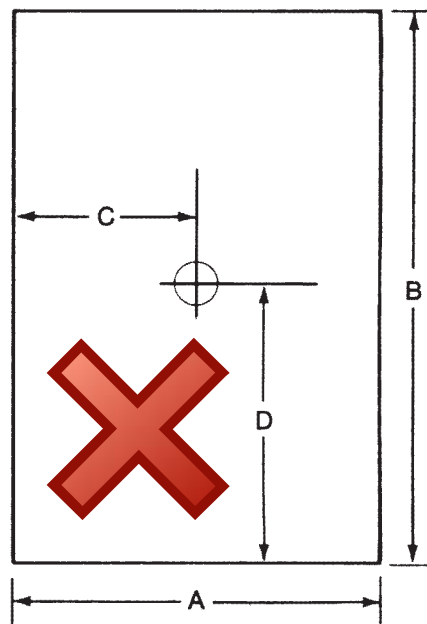


## ROUGH-IN



**MTB SQUARE BASIN**

MODEL	SIZE	A	B	C	D
MTB-2424	Inches 24x24x10	24	24	12	12
MTB-2424	MM 610x610x250	610	610	305	305



**MTB RECTANGULAR BASIN**

MODEL	SIZE	A	B	C	D
MTB-3624	Inches 36x24x10	24	36	12	18
MTB-3624	MM 915x610x250	610	915	305	457

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



STERN

**WILLIAMS** DIMENSIONAL INFORMATION

## ROUGHING-IN MEASUREMENTS

Service Sink Fitting with adjustable wall brace, spring checks, integral stops, vacuum breaker, and bucket hook. Cast brass with 3/4" hose thread on spout.

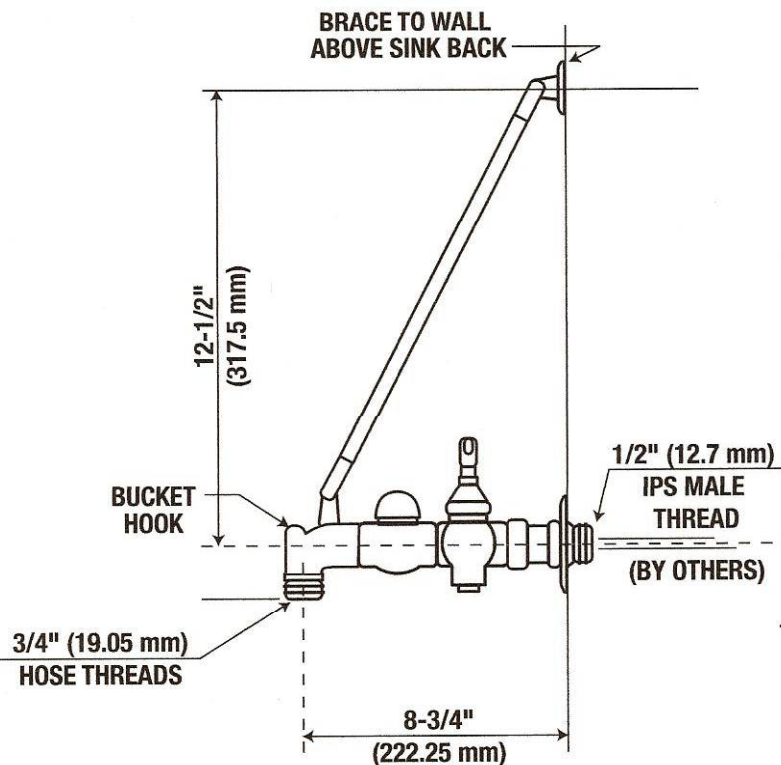
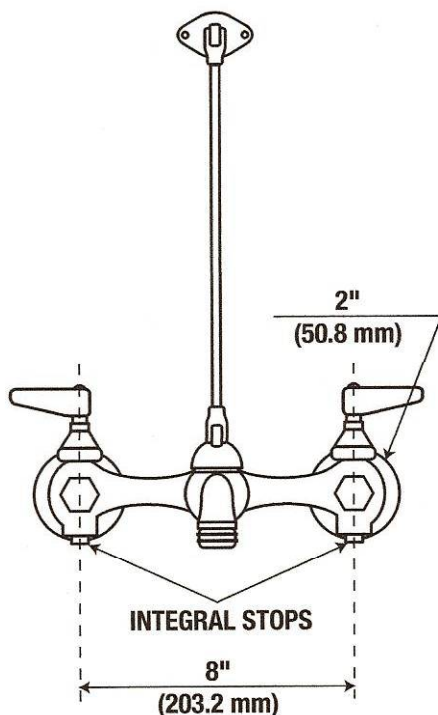
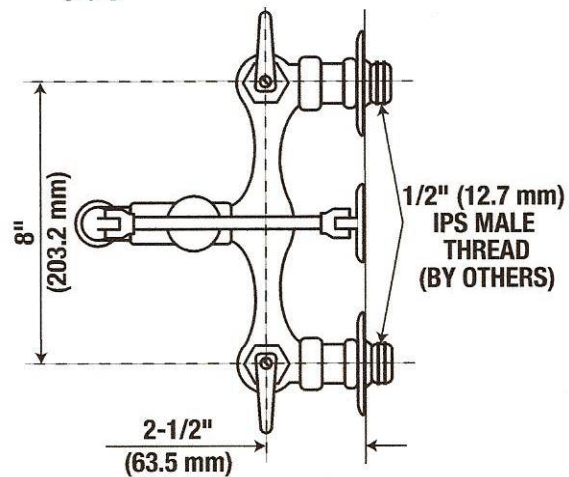
Polished chrome finish T-15-VB

Rough chrome finish T-10-VB

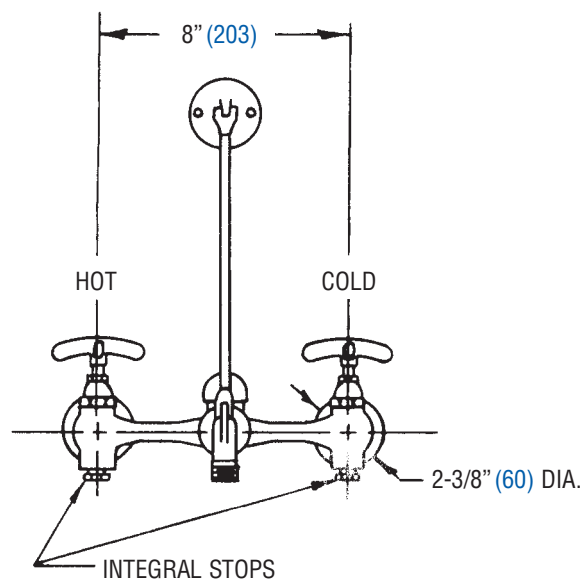
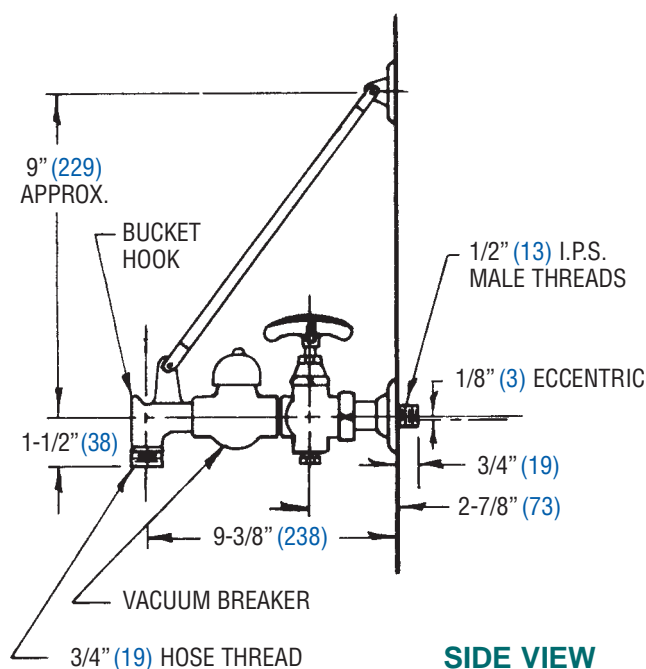


1. Measurements shown are subject to revision or cancellation. Do not use superseded or obsolete leaflets.
2. These measurements may vary  $\pm 1/4"$  (6 mm) and are for this installation only.
- 3) Flow rate is 2.5 gpm at 60 psi.

Fine No. 3605  
Model No. H778



# Service-Sink Faucet Model: 830-AA

**FIAT**®

**FRONT VIEW**

**SIDE VIEW**

**NOTE:** These roughing measurements may vary 1/4" (plus or minus).


**General:**

830-AA Service Faucet - Chrome plated with vacuum breaker, integral stops, adjustable wall brace, pail hook and 3/4" hose thread on spout. Body inlets 8" center to center, four arm handles. Valves contain renewable hub, renewable seats, swivel discs, encased washers and brass washer screws.

**Material:  
Finish:**

Commercial red brass alloy casting-rough finish.

Chrome plating exceeding requirements of ANSI/ASTM B-456-71. Indicators cold (blue) and hot (red) are included.

**Specifications  
and  
Codes:**

In the U.S.A., meets or exceeds requirements of ANSI-A112.18.1M-1979 for "Finished and Rough Brass Plumbing Fixture Fittings." In Canada, meets or exceeds the requirements of CSA standards B125 - "Plumbing Fittings," B64.1.1 - "Vacuum Breakers - Atmosphere Type" and B64.0 - "General Requirements for Backflow Preventers and Vacuum Breakers," and is approved under Product Class No. 6811 01 under Report #LM57412-1. Conforms to ASSE 1001.



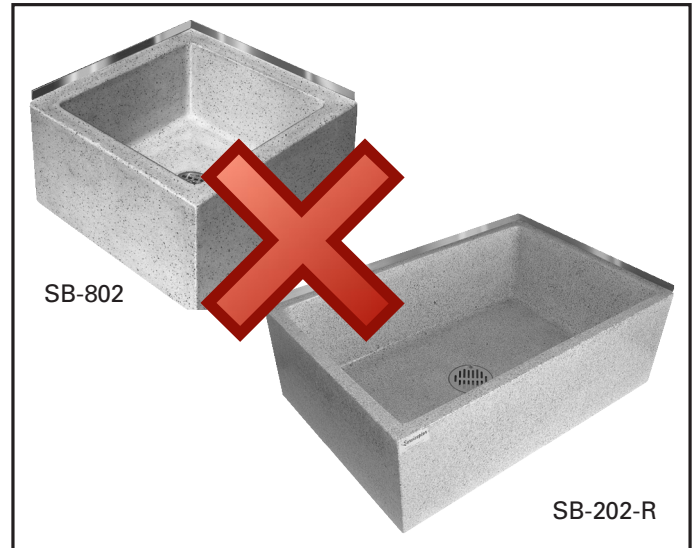
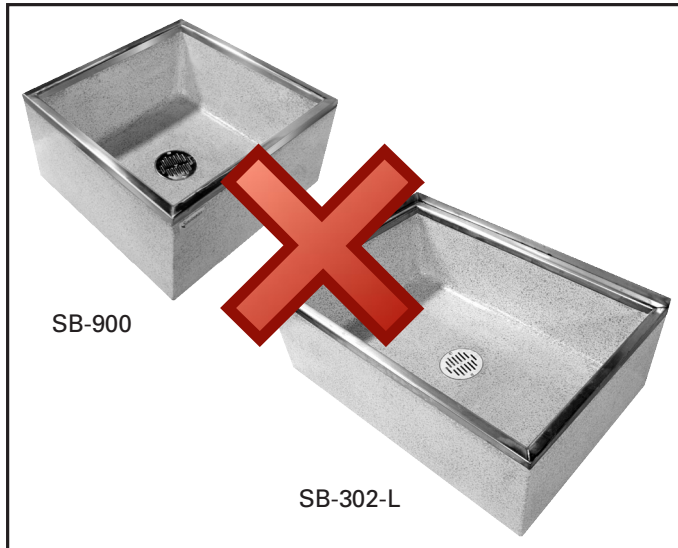
**FIAT PRODUCTS**®  
A CRANE PLUMBING COMPANY

255 Hutchings St. • Winnipeg, MB • R2X 2R4 • Ph. 800-665-7531 • 204-633-6122 • Fx. 204-632-4854  
e-mail: [info@fiat.ca](mailto:info@fiat.ca) • website: [www.fiat.ca](http://www.fiat.ca)

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

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



**WITH STAINLESS STEEL CAP**

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

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

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

**WITHOUT STAINLESS STEEL CAP**

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

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

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

**QUALITY OPTIONAL FITTINGS**

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

**JOB**

**ARCHITECT**

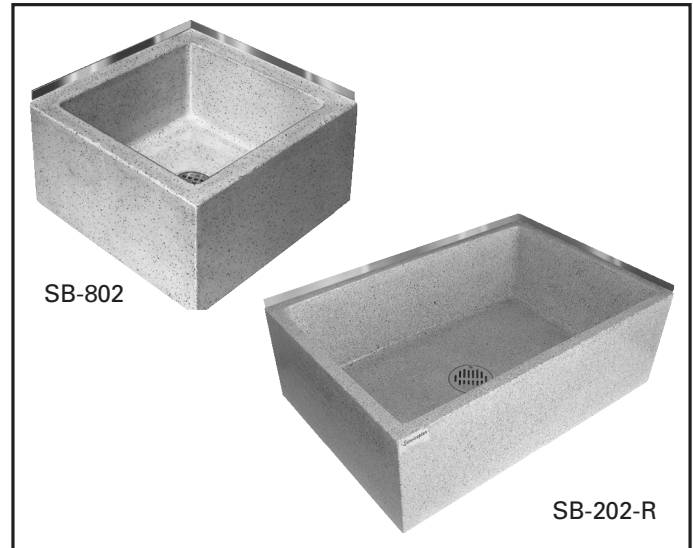
**LOCATION**

**ENGINEER**



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

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**WITH STAINLESS STEEL CAP**

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

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

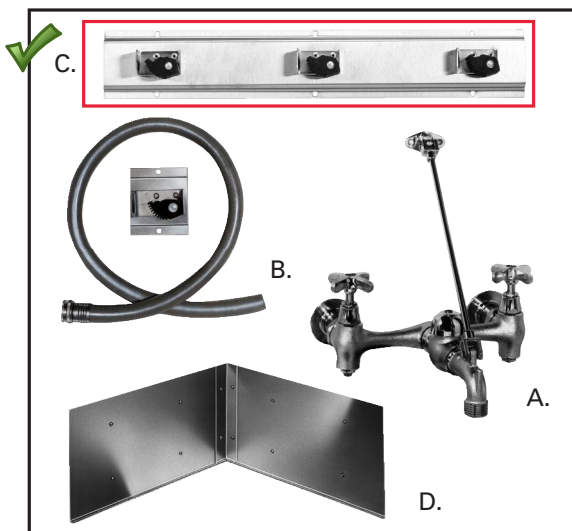
\* Flange is across back and on LEFT side on model numbers ending in "L".

**WITHOUT STAINLESS STEEL CAP**

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

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

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



**QUALITY OPTIONAL FITTINGS**

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

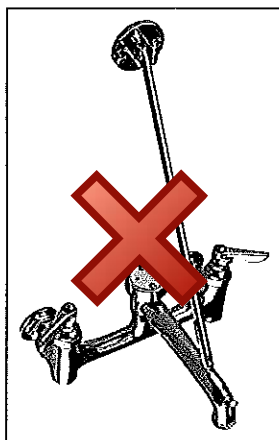
**JOB**

**ARCHITECT**

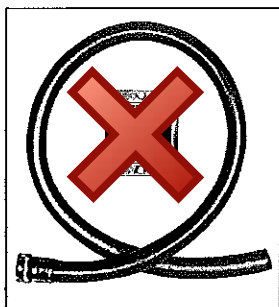
**LOCATION**

**ENGINEER**

## ACCESSORIES FOR MOP SERVICE SINKS



T-15-VB

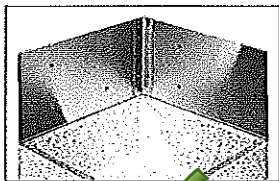


T-35



T-40

### SPLASH CATCHER® WALL GUARDS



BP

### SPEEDI DRAIN CONNECTORS



#### DESCRIPTION

#### MODEL

#### SHIPPING WT.

#### SINK FITTING

With integral stops, vacuum breaker, spring checks, lever handles, adjustable top brace, 3/4" hose thread on spout with bucket hook, inlets 8" on center, rough chrome finish.

T-10-VB

7 lbs. — 3 kg.

As above, with polished chrome finish

T-15-VB

7 lbs. — 3 kg.

#### 36" HOSE

With chrome coupling, stainless steel wall bracket

T-35

1 lb. — .5 kg.

#### LINT BASKET

-LB

1 lb. — .5 kg.

#### MOP HANGER

Stainless steel, #4 finish. 24" long with 3 rubber spring loaded grips

T-40

2 lbs. — 1 kg.

#### SEALANT

Silaprene Sealant in 1/12th U.S. gal. std. cartridge

C-10

1 lb. — .5 kg.

#### TERRAZZO REPAIR KIT

RK

2 lbs. — 1 kg.

#### BUMPER GUARDS

Extruded Vinyl

V-70-24"

1 lb. — .5 kg.

V-70-36"

2 lbs. — 1 kg.

Aluminum

A-20-24"

2 lbs. — 1 kg.

A-20-32"

3 lbs. — 1 kg.

A-20-36"

3 lbs. — 1 kg.

#### Single Panel

Specify size\*

24", 28", 32" or 36"

\*(i.e., BP-1-24")

BP-1-(size)

6 lbs. — 3 kg.

#### Two Panels, One Corner

Specify size\*

24", 28", 32" or 36" square

or 24x36"

\*(i.e., BP-2-24")

BP-2-(size)

10 lbs. — 5 kg.

#### Three Panels, Two Corners

Specify size\*

24", 28", 32" or 36" square

or 24x36"

\*(i.e., BP-3-24")

BP-3-(size)

15 lbs. — 7 kg.

#### Shower Drain Gasket, 2"

TC-2

1 lbs. — .5 kg.

#### Mop Sink Drain Gasket,

3" For XHCl, plastic and steel pipe

TC-3

1 lbs. — .5 kg.

3" For SV and NHCl pipe

TC-3-NH

1 lbs. — .5 kg.

3" Reducer with 2" hole

TC-3-2

1 lbs. — .5 kg.

Use only with STERN-WILLIAMS shower floors and mop sinks.

### DURA-POWER™

Designed for use as a recovery heater having its own storage tank. Available in upright standard models (DEN) and lowboy models (DEL).

#### GLASSLINED TANK

- Thirteen sizes; 6 thru 119 gallon capacity. Tank interior is coated with glass specially designed by A. O. Smith for water heater use.

#### ELEMENTS

- Zinc plated copper sheaths for longer life. Medium watt density means lower surface temperature to minimize scale build-up and more surface to heat water. Element sizes from 1.5 to 6 KW. Maximum input 12 KW (see chart).

#### STANDARD VOLTAGES

- 120, 277 single phase and 208, 240 and 480V unbalanced three-phase delta; easily converted to single-phase at terminal block (except 208V with 5500 watt elements). Single element heaters, single-phase only.

#### TERMINAL BLOCK

- Factory-installed. Just bring the service to heater and connect to block. Terminal block not supplied on 120V & 277V models. (No junction box on DEL6-20)

#### CONTROLS

- Temperature control (adjustable through a range of 110° to 170°F on single element and 120° to 181°F on dual element) and manual reset high temperature cutoff per element.

#### CSA CERTIFIED AND ASME RATED T&P RELIEF VALVE

#### SIMPLIFIED CIRCUITRY, COLOUR CODED FOR EASE OF SERVICE

#### ANODE ROD FOR MAXIMUM CORROSION PROTECTION

#### CABINET HAS BONDERIZED UNDERCOAT WITH BAKED ENAMEL FINISH

#### DRAIN VALVE (EXCLUDES DEL 6-20)

#### UL APPROVED FIELD CONVERSION PROGRAM

#### COMPLIANCE

- Meets the standby loss requirements of NRCan and current edition of ASHRAE/IES 90.1.

#### LIMITED WARRANTY OUTLINE

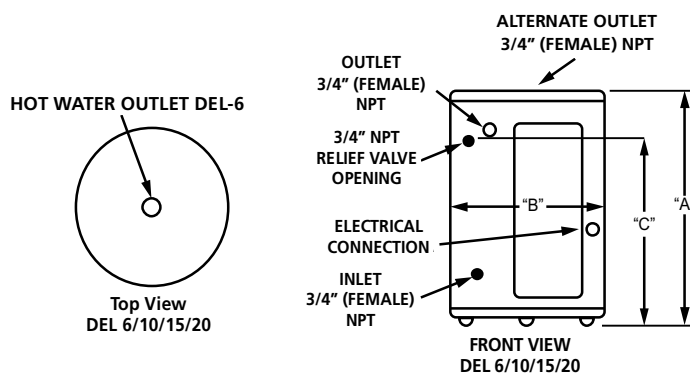
- If the tank should leak any time during the first three years, under the terms of the warranty, A. O. Smith will furnish a replacement heater; installation, labour, handling and local delivery extra. THIS OUTLINE IS NOT A WARRANTY. For complete information consult the written warranty or A. O. Smith.







# Commercial Electric Water Heaters

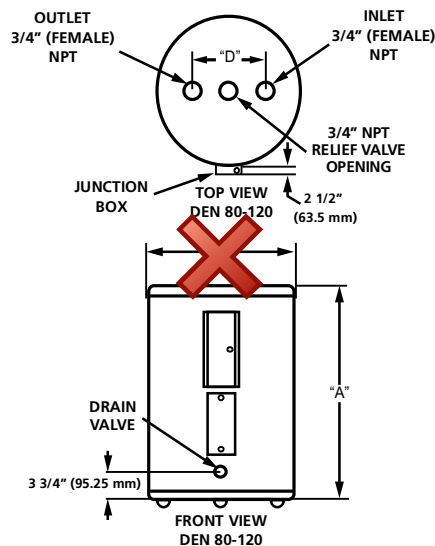
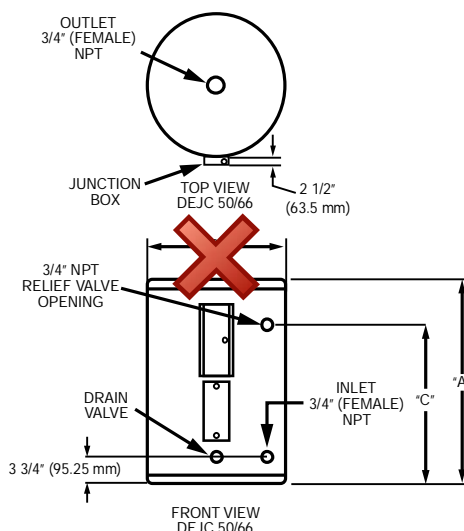
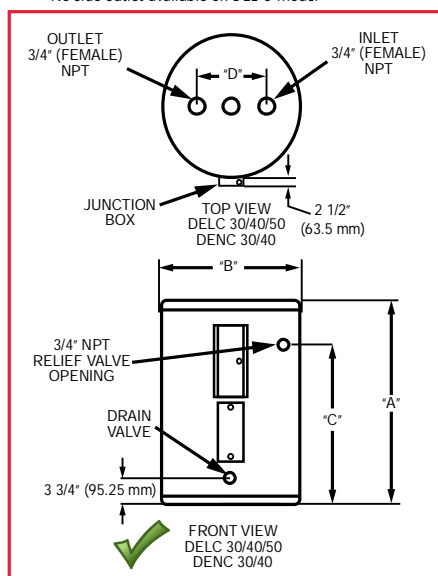


## ROUGH-IN DIMENSIONS

\*(NO SIDE OUTLET AVAILABLE FOR DEL-6 MODELS)

MODEL NUMBER	NO. OF ELEMENTS	TANK CAPACITY		STANDBY LOSS WATTS	A		B		C		D		SHIPPING WEIGHT	
		USG	L		IN	MM	IN	MM	IN	MM	IN	MM	LB	KG
DEL-6	1	6	23	N/A	15-1/2	394	14-1/4	362	11	279	N/A	N/A	35	16
DEL-10	1	10	37	N/A	18-1/4	464	18	457	12-1/2	318	N/A	N/A	54	25
DEL-15	1	13	49	49	26	660	18	457	20-1/2	521	N/A	N/A	58	26
DEL-20	1	19	74	54	22-1/4	565	21-3/4	552	15-3/8	391	N/A	N/A	73	33

\* No side outlet available on DEL-6 Model





## ROUGH-IN DIMENSIONS

MODEL NUMBER	NO. OF ELEMENTS	TANK CAPACITY		STANDBY LOSS WATTS	A		B		C		D		SHIPPING WEIGHT	
		USG	L		IN	MM	IN	MM	IN	MM	IN	MM	LB	KG
DELC-30	2	27	103	46	31-5/8	803	24	610	21-15/16	557	8	203	120	54
DELC-40	2	36	138	53	33-7/8	860	26	660	23-7/8	606	8	203	115	52
DELC-50	2	50	190	63	36	914	26-1/2	673	26-1/8	664	8	203	175	79
DENC-30	2	29	109	47	39-7/8	1013	22	559	30-7/16	773	8	203	100	45
DENC-40	2	38	145	54	49-7/8	1267	20-1/2	521	40-3/4	1035	8	203	103	47
DEJC-50	2	49	184	77	48-1/4	1226	22	559	40-5/16	1024	Side Inlets	-	127	58
DEJC-66	2	63	237	87	60-1/2	1537	22	559	52-3/4	1340	Side Inlets	-	150	68
DEN-80	2	75	284	86	59-3/8	1508	24	610	N/A	N/A	8	203	211	96
DEN-120	2	113	428	146	62-7/16	1586	29-3/8	746	N/A	N/A	8	203	326	148



# Commercial Electric Water Heaters

## ELEMENT AVAILABILITY CHART (LIGHT-DUTY COMMERCIAL ELECTRIC)

MODELS & ELEMENTS	VOLTAGE	WIRING	KW INPUT AVAILABLE									
6-GALLON MODELS SINGLE-ELEMENT	120V	-	1.5	2	2.5	3						
	208V	-	1.5	2	2.5	3						
	240V	-	1.5	2	2.5	3						
	277V	-	1.5	2	2.5	3						
	480V	-		2	2.5	3						
10-GALLON THROUGH 20-GALLON MODELS SINGLE-ELEMENT	120V	-	1.5	2	2.5	3						
	208V	-	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6
	240V	-	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6
	277V	-	1.5	2	2.5	3		4	4.5	5		6
	480V	-		2	2.5	3		4	4.5	5	5.5	6
 30-GALLON THROUGH 120-GALLON MODELS DOUBLE-ELEMENT	120V	Interlock	1.5	2	2.5	3						
		Simultaneous	3	4	5	†						
	 208V	Interlock	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6
		Simultaneous	3	4	5	6	7	8	9	10**	11**	†
	240V	Interlock	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6
		Simultaneous	3	4	5	6	7	8	9	10	11	12**
	277V	Interlock	1.5	2	2.5	3		4	4.5	5		6
		Simultaneous	3	4	5	6		8	9	10		12
	480V	Interlock		2	2.5	3		4	4.5	5	5.5	6
		Simultaneous		4	5	6		8	9	10	11	12

6 gallon model not available above 3kW

6/10/15/20 gallon models all A6 circuit (2 wire) only

† Exceeds maximum amp draw.

\*\* Simultaneous only in 3ph

## ELECTRIC CHARACTERISTICS

ELECTRIC CHARACTERISTICS													
NON SIMULTANEOUS AND SINGLE ELEMENT OPERATION 6 - 120 GALLON					SIMULTANEOUS DUAL ELEMENT OPERATION (SINGLE PHASE CONNECTION) 30 - 120 GALLON					SIMULTANEOUS DUAL ELEMENT OPERATION (UNBALANCED THREE PHASE CONNECTION) 30 - 120 GALLON			
ELEMENT WATTAGE	FULL LOAD CURRENT IN AMPERES (TERMINALS - L1, L2)				ELEMENT WATTAGE	FULL LOAD CURRENT IN AMPERES (TERMINALS - L1, L2)				ELEMENT WATTAGE	FULL LOAD CURRENT IN AMPERES (TERMINALS - L2 / TERMINAL L1 & L3)		
Upper/Lower	120V	208V	240V	480V	Upper/Lower	120V	208V	240V	480V	Upper/Lower	208V	240V	480V
1500	12.5	7.2	6.3	3.2	1500/1500	25.0	14.4	12.5	6.3	1500/1500	12.4/7.2	10.8/6.3	5.4/3.2
2000	16.7	9.6	8.3	4.2	2000/2000	33.4	19.2	16.6	8.3	2000/2000	16.6/9.6	14.4/8.3	7.2/4.2
2500	20.8	12.0	10.4	5.2	2500/2500	41.6	24	20.8	10.4	2500/2500	20.8/12.0	18.0/10.4	9.0/5.2
3000/3000	25.0	14.4	12.5	6.3	3000/3000	N/A	28.8	25	12.5	3000/3000	25.0/14.4	21.6/12.5	10.8/6.3
4000/4000	N/A	19.2	16.7	8.3	4000/4000	N/A	38.4	33.3	16.6	4000/4000	33.3/19.2	28.8/16.7	14.4/8.3
4500/4500	N/A	21.6	18.8	9.4	4500/4500	N/A	43.2	37.5	18.75	4500/4500	37.4/21.6	32.4/18.8	16.2/9.4
5000/5000	N/A	24.0	20.8	10.4	5000/5000	N/A	N/A	41.6	20.8	5000/5000	41.6/24.0	36.0/20.8	18.0/10.4
6000/6000	N/A	28.8	25.0	12.5	6000/6000	N/A	N/A	N/A	25	6000/6000	N/A	43.3/25.0	21.6/12.5



# Commercial Electric Water Heaters

## RECOVERY CAPACITIES

ELEMENT WATTAGE (UPPER/ LOWER)	INPUT	U. S. GALLONS/HR AND LITRES/HR AT TEMPERATURE RISE INDICATED											
		F°	36	40	54	60	72	80	90	100	108	120	126
	KW	C°	20	22.2	30	33.3	40	44.4	50	55.5	60	66.6	70
NON-SIMULTANEOUS OPERATION													
/1500	1.5	GPH	17	15	11	10	8	8	7	6	6	5	5
		LPH	64	58	43	38	32	29	26	23	21	19	18
/2000	2	GPH	23	20	15	14	11	10	9	8	8	7	6
		LPH	85	77	57	51	43	38	34	31	28	26	24
/2500	2.5	GPH	28	25	19	17	14	13	11	10	9	8	8
		LPH	107	96	71	64	53	48	43	38	36	32	30
3000/3000	3	GPH	34	30	23	20	17	15	14	12	11	10	10
		LPH	128	115	85	77	64	58	51	46	43	38	37
3500/3500	3.5	GPH	40	36	26	24	2	18	16	14	13	12	11
		LPH	151	136	98	90	75	68	60	52	49	45	41
4000/4000	4	GPH	45	41	30	27	23	20	18	16	15	14	13
		LPH	170	153	114	102	85	77	68	61	57	51	49
4500/4500	4.5	GPH	51	46	34	30	25	23	20	18	17	15	14
		LPH	192	173	128	115	96	86	77	69	64	58	55
5000/5000	5	GPH	56	51	38	34	28	25	23	20	19	17	16
		LPH	213	192	142	128	107	96	85	77	71	64	61
5500/5500	5.5	GPH	63	56	42	37	31	28	25	22	21	18	18
		LPH	238	211	158	140	117	105	94	83	79	68	68
6000/6000	6	GPH	68	61	45	41	34	30	27	24	23	20	19
		LPH	256	230	170	153	128	115	102	92	85	77	73
SIMULTANEOUS OPERATION													
3000/3000	6	GPH	68	61	45	41	34	30	27	24	23	20	19
		LPH	256	230	170	153	128	115	102	92	85	77	73
3500/3500	7	GPH	80	72	53	48	40	36	32	28	26	24	22
		LPH	302	272	200	181	151	136	121	105	98	90	83
4000/4000	8	GPH	90	81	60	54	45	41	36	32	30	27	26
		LPH	341	307	227	205	170	153	136	123	114	102	97
4500/4500	9	GPH	101	91	68	61	51	46	41	36	34	30	29
		LPH	384	345	256	230	192	173	153	138	128	115	110
5000/5000	10	GPH	113	101	75	68	56	51	45	41	38	34	32
		LPH	426	384	284	256	213	192	170	153	142	128	122
5500/5500	11	GPH	126	113	84	75	63	56	50	45	42	37	36
		LPH	476	427	317	283	238	211	189	170	158	140	136
6000/6000	12	GPH	135	122	90	81	68	61	54	49	45	41	39
		LPH	511	460	341	307	256	230	205	184	170	153	146

Recovery capacities at 100° F rise equal: for non-simultaneous element operation = 4.1 gal. x kW of one element; for simultaneous element operation = 4.1 gal. x 2/3 kW of both elements.  
For other rises multiply element kW as previously explained by 410 and divide by temperature rise. Full load current for single phase = total watts/voltage.

## SPECIFICATION

The water heaters(s) shall be Dura-Power™ Model(s) No. \_\_\_\_\_ as manufactured by A. O. SMITH or an approved equal. Heater(s) shall be rated at \_\_\_\_\_ kW, \_\_\_\_\_ volts, \_\_\_\_\_-phase, 60 cycle AC, and listed by Underwriters' Laboratories. Models shall meet the standby loss requirements of NRCan and current edition of ASHRAE/IES 90.1. Tank(s) shall be \_\_\_\_\_ gallon capacity. Heater(s) shall have 150 psi working pressure and be equipped with extruded high density anode rod. All internal surfaces of the heater(s) exposed to water shall be glasslined with an alkaline borosilicate composition that has been fused-to-steel by firing at a temperature range of 1400°F to 1600°F. Electric heating elements shall be medium watt density with zinc plated copper sheath. Each element shall be controlled by an individually mounted thermostat and high temperature cutoff switch. The outer jacket shall be of backed enamel finish and shall enclose the tank with foam insulation. Electrical junction box with heavy duty terminal block shall be provided (except on 120V & 277V (no junction box on DEL-6 thru 20)). The drain valve shall be located in the front for ease of servicing. Heater tank shall have a three year limited warranty as outlined in the written warranty. Fully illustrated instruction manual to be included.

For Technical Information call 888-599-2837. A. O. Smith Enterprises Ltd. reserves the right to make product changes or improvements without prior notice.



# Commercial Electric Water Heaters

WH-2

## Dura-Power™

**Designed for use as a recovery heater having its own storage tank. Available in upright standard models (DEN) and lowboy models (DEL).**

**GLASS-LINED TANK** - Thirteen sizes; 6 thru 119 gallon capacity. Tank interior is coated with glass specially designed by A. O. Smith for water heater use.

**ELEMENTS** - Zinc plated copper sheaths for longer life. Medium watt density means lower surface temperature to minimize scale build-up and more surface to heat water. Element sizes from 1.5 to 6 KW. Maximum input 12 KW (see chart on back).

**STANDARD VOLTAGES** - 120, 277 single phase and 208, 240 and 480V unbalanced three-phase delta; easily converted to single-phase at terminal block (except 208V with 6000 watt elements). Single element heater, single-phase only.

**TERMINAL BLOCK** - Factory-installed. Just bring the service to heater and connect to block. Terminal block not supplied on 120V & 277 volt models.

**CONTROLS** - Temperature control (adjustable through range of 110° to 170°F on single element and 120° to 180°F on dual element) and manual reset high temperature cutoff per element (dual element models). Factory-wired for non-simultaneous operation; easily converted to simultaneous element operation (three phase models only).

**CSA CERTIFIED AND ASME RATED T&P RELIEF VALVE**

**SIMPLIFIED CIRCUITRY, COLOR CODED FOR EASE OF SERVICE**

**ANODE ROD FOR MAXIMUM CORROSION PROTECTION**

**CABINET HAS BONDORIZED UNDERCOAT WITH BAKED ENAMEL FINISH**

**TOP INLET AND OUTLET OPENINGS**

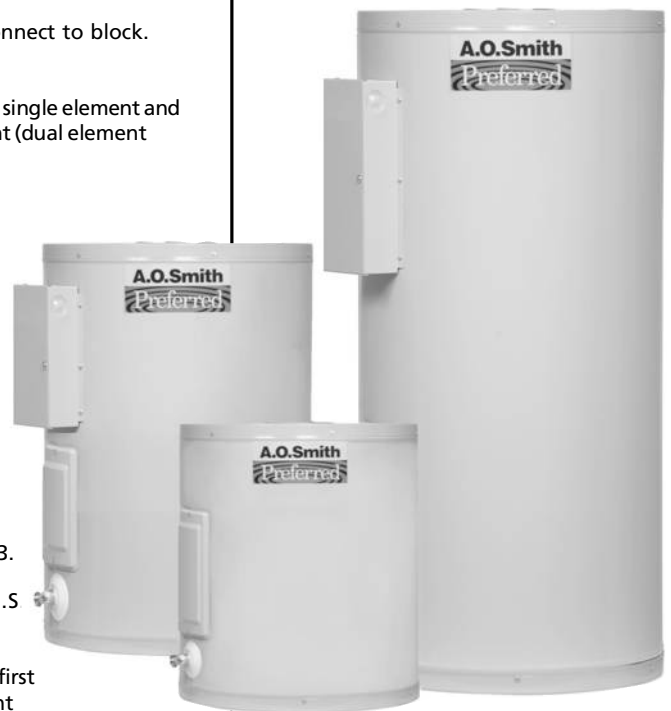
**DRAIN VALVE**

**UL APPROVED FIELD CONVERSION PROGRAM** - The 6 through 20 models are UL listed to UL 174 and the 30 through 120 models are listed to UL 1453.

**COMPLIANCE** - Meets or exceeds the standby loss Requirements of the U.S. Department of Energy and current edition of ASHRAE/IESNA 90.1.

**LIMITED WARRANTY OUTLINE** - If the tank should leak any time during the first three years, under the terms of the warranty, A. O. Smith will furnish a replacement heater; installation, labor, handling and local delivery extra. THIS OUTLINE IS NOT A WARRANTY. For complete information consult the written warranty or A. O. Smith Water Products Company.

## DEN/DEL MODELS



**ELEMENT AVAILABILITY CHART**

Input	120V	208V	240V	277V	480V
1,500	YES	YES	YES	YES	—
2,000	YES	YES	YES	YES	YES
2,500	YES	YES	YES	YES	YES
3,000	YES	YES	YES	YES	YES
3,500	—	—	YES	—	—
4,000	—	YES	YES	YES	YES
4,500	—	YES	YES	YES	YES
5,000	—	YES*	YES*	YES*	YES*
5,500	—	—	YES*	—	—
6,000	—	YES**	YES	YES	YES

NOTE: DEL-6 not available in above 2.5 KW.

DEL-6 not available in 480V.

\* Not available in DEL-10, DEL-15 and DEN-30.

\*\* A6 non-simultaneous circuit only.

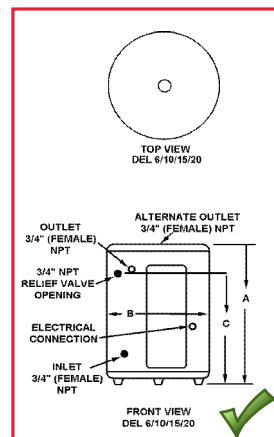
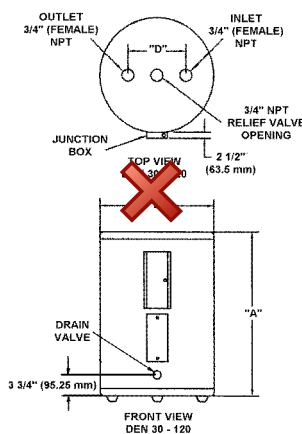
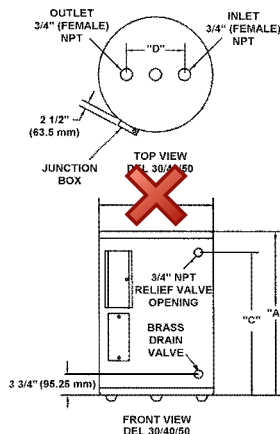




# Commercial Electric Water Heaters

## Dura-Power™

### PRODUCT SPECIFICATIONS



#### ROUGH-IN DIMENSIONS

Models	No. of Elements	Tank Capacity		A		B		C		D		Shipping Weight	
Dimensions		US Gals.	Litres	inches	mm	inches	mm	inches	mm	inches	mm	Lbs.	Kg.
DEL-6	1	6	23	15 1/2	394	14 1/4	362	11	279	-	-	35	15.9
DEL-10	1	10	38	18 1/4	464	18	457	12 1/2	318	-	-	54	24.5
DEL-15	1	15	57	26	660	18	457	20 1/2	521	-	-	58	26.3
DEL-20	1	20	76	22 1/4	565	21 3/4	552	15 3/8	391	-	-	73	33.1
DEL-30	2	30	114	30 7/8	784	21 3/4	552	24 1/8	613	8	203	100	45.4
DEL-40	2	40	151	32 1/4	819	24	610	25 9/16	649	8	203	125	56.7
DEL-50	2	50	189	32 1/4	819	26 1/2	673	25 1/8	638	8	203	166	75.3
DEN-30	2	30	114	34 1/2	876	20 1/2	521	-	-	8	203	98	44.5
DEN-40	2	40	151	45 1/8	1146	20 1/2	521	-	-	8	203	113	51.3
DEN-52	2	50	189	54 7/8	1394	20 1/2	521	-	-	8	203	131	59.4
DEN-66	2	66	250	60 3/4	1543	21 3/4	552	-	-	8	203	176	79.8
DEN-80	2	80	303	59 3/8	1508	24	610	-	-	8	203	211	95.7
DEN-120	2	119	450	62 7/16	1586	29 3/8	746	-	-	8	203	326	147.9

#### RECOVERY CAPACITIES

Element Wattage (Upper/Lower)	INPUT KW	U.S. Gallons/Hr and Litres/Hr at TEMPERATURE RISE INDICATED											
		F°	36F°	40F°	54F°	60F°	72F°	80F°	90F°	100F°	108F°	120F°	126F°
		C°	20C°	22.2C°	30C°	33.3C°	40C°	44.4C°	50C°	55.5C°	60C°	66.6C°	70C°
<b>NON-SIMULTANEOUS OPERATION</b>													
/1500	1.5	GPH	17	15	11	10	8	8	7	6	6	5	5
		LPH	64	58	43	38	32	29	26	23	21	19	18
/2000	2.0	GPH	23	20	15	14	11	10	9	8	8	7	6
		LPH	85	77	57	51	43	38	34	31	28	26	24
/2500	2.5	GPH	28	25	19	17	14	13	11	10	9	8	8
		LPH	107	96	71	64	53	48	43	38	36	32	30
3000/3000	3.0	GPH	34	30	23	20	17	15	14	12	11	10	10
		LPH	128	115	85	77	64	58	51	46	43	38	37
4000/4000	4.0	GPH	45	41	30	27	23	20	18	16	15	14	13
		LPH	170	153	114	102	85	77	68	61	57	51	49
4500/4500	4.5	GPH	51	46	34	30	25	23	20	18	17	15	14
		LPH	192	173	128	115	96	86	77	69	64	58	55
5000/5000	5.0	GPH	56	51	38	34	28	25	23	20	19	17	16
		LPH	213	192	142	128	107	96	85	77	71	64	61
6000/6000	6.0	GPH	68	61	45	41	34	30	27	24	23	20	19
		LPH	256	230	170	153	128	115	102	92	85	77	73
<b>SIMULTANEOUS OPERATION</b>													
3000/3000	6	GPH	68	61	45	41	34	30	27	24	23	20	19
		LPH	256	230	170	153	128	115	102	92	85	77	73
4000/4000	8	GPH	90	81	60	54	45	41	36	32	30	27	26
		LPH	341	307	227	205	170	153	136	123	114	102	97
4500/4500	9	GPH	101	91	68	61	51	46	41	36	34	30	29
		LPH	384	345	256	230	192	173	153	138	128	115	110
5000/5000	10	GPH	113	101	75	68	56	51	45	41	38	34	32
		LPH	426	384	284	256	213	192	170	153	142	128	122
6000/6000	12	GPH	135	122	90	81	68	61	54	49	45	41	39
		LPH	511	460	341	307	256	230	205	184	170	153	146

Recovery capacities at 100° F rise equal: for non-simultaneous element operation = 4.1 gal. x KW of one element; for simultaneous element operation = 4.1 gal. x 2/3 KW of both elements. For other rises multiply element KW as previously explained by 410 and divide by temperature rise. Full load current for single phase = total watts ÷ voltage.

#### SUGGESTED SPECS

The water heater(s) shall be Dura-Power Model(s) No. \_\_\_\_\_ as manufactured by A. O. SMITH or an approved equal. Heater(s) shall be rated at \_\_\_\_\_ KW, \_\_\_\_\_ volts, \_\_\_\_\_ phase, 60 cycle AC, and listed by Underwriters' Laboratories. Models shall meet or exceed the standby loss requirements of the U.S. Department of energy and current edition of ASHRAE/IESNA 90.1. Tank(s) shall be \_\_\_\_\_ gallon capacity. Heater(s) shall have 150 psi working pressure and be equipped with extruded high density anode rod. All steel by firing at a temperature range of 1600°F. Electric heating elements shall be medium watt density with zinc plated copper sheath. Each element shall be controlled by an individually mounted thermostat and high temperature cutoff switch. The outer jacket shall be of backed enamel finish and shall be provided with full size control compartment for performance of service and maintenance through hinged front panels and shall enclose the tank with foam insulation. Electrical junction box with heavy duty terminal block shall be provided (except on 120V & 277V (no junction box on DEL-6 thru 20)). The drain valve shall be located in the front for ease of servicing. Heater tank shall have a three year limited warranty as outlined in the written warranty. Fully illustrated instruction manual to be included.

For Technical Information and Automated Fax Service, call 800-527-1953. A. O. Smith Corporation reserves the right to make product changes or improvements without prior notice.

## For Water Heater and Hot Water Storage Tank Applications

Job Name \_\_\_\_\_

Contractor \_\_\_\_\_

Job Location \_\_\_\_\_

Approval \_\_\_\_\_

Engineer \_\_\_\_\_

Contractor's P.O. No. \_\_\_\_\_

Approval \_\_\_\_\_

Representative \_\_\_\_\_

# LEAD FREE\*

## Series PLT

### Potable Water Expansion Tanks

Series PLT Potable Water Expansion Tanks are designed to absorb the increased volume of water created by thermal expansion and to maintain balanced pressure throughout the potable water supply system.

Heated water expands, and in a domestic hot water system, the system may be closed when the potable water system is isolated from the public water supply by a one-way valve such as pressure reducing valve, backflow preventer or check valve. Provisions must be made for this expansion.

Series PLT expansion tanks absorb the increased volume of water created when the hot water storage tank is heated and keeps the system pressure below the relief setting of the T&P relief valve.

It is a pre-pressurized steel tank with an expansion membrane that prevents contact of the water with the air in the tank. This prevents loss of air to the water and insures long and trouble-free life for the system. These tanks may be used with all types of Direct Fired Hot Water Heaters (gas, oil or electric) and hot water storage tanks.

### Features

- Rugged flexible butyl diaphragm
- Field adjustable pre-charge
- In-line and free standing models
- Can be used with most standard hot water heaters and storage tanks

### Models

- PLT-5-M1 has 3/4" male connection, tank volume 2.1 gal.
- PLT-12-M1 has 3/4" male connection, tank volume 4.5 gal.
- PLT-20-M1 has 3/4" male connection, tank volume 8.5 gal.
- PLT-35-M1 has 1" female connection, tank volume 14.00 gal.

### Specifications

The potable water expansion tank shall be of drawn steel construction. It shall have a Butyl diaphragm separating the air chamber from the water containing chamber. Inlet connector shall be Stainless Steel. Materials of manufacture for the diaphragm shall be FDA approved.

The potable water expansion tank shall be a Watts Model PLT.

**\*The wetted surface of this product contacted by consumable water contains less than one quarter of one percent (0.25%) of lead by weight.**

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



### Standards

Models **PLT-5, PLT-12 and PLT-20** are Listed by IAPMO.

Certified to ANSI/NSF 61

**Model PLT-35**

Certified to ANSI/NSF 61



(73°F/23°C)

**Note:** The potable water expansion tank shall be installed in the cold water service pipe line on the supply side of the water heater (or water storage tank). A pressure relief valve sized and installed in accordance with local codes must be incorporated in the system.

In those systems requiring a combined temperature and pressure safety relief valve, the temperature and pressure relief valve should be sized and installed in accordance with local codes. Adequate drainage provisions should be provided where water flow will cause damage.

See chart on back

# WATTS®



## Selection

This Quick Reference Selection Guide may be used as an alternative to using a formula to determine the correct expansion tank for the system. This table is based upon a relief valve setting of 150psi (10.3 bar), and a maximum of 50°F temperature rise.

To select the correct model PLT series tank, simply go the supply pressure equal to the system supply pressure (for pressures between those shown use next highest supply pressure shown), read across the chart to the correct tank as indicated by the water heater capacity (for capacities between those shown, use next highest capacity).

To accommodate the thermal expansion required for higher temperature and/or higher pressure systems, multiple tanks may be used. Please contact the factory for sizing information.

## Materials

Diaphragm: Butyl rubber

Inlet Connection: Stainless Steel

SUPPLY PRESSURE (PSIG)	WATER HEATER (GALLONS)						
	20	30	40	50	80	100	120
40							
50							
55							
60							
70							
80							
90							
100							
110							
120							

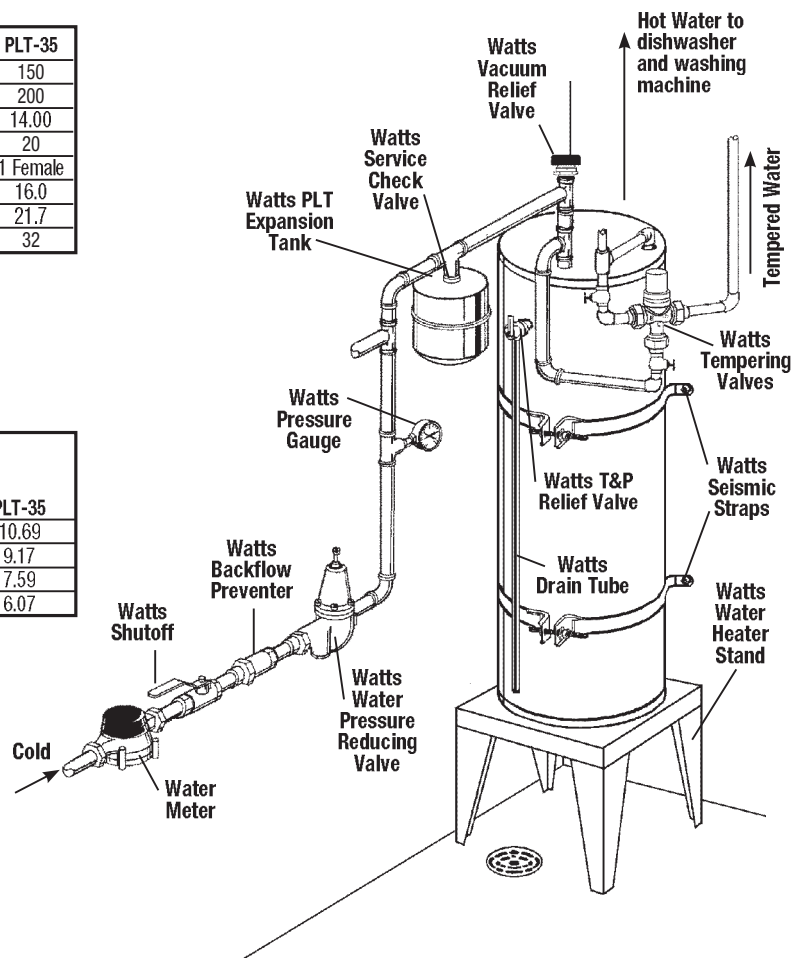
	PLT-5		PLT-20
	PLT-12		PLT-35
	Multiple tanks required - consult factory		

## Technical Information

Description	PLT-5	PLT-12	PLT-20	PLT-35
Max. Pressure - PSI	150	150	150	150
Max. Temp. - °F	200	200	200	200
Tank Volume - Gal.	2.1	4.5	8.5	14.00
Air Pre-charge - PSI	20	20	20	20
Connections Size - Inches	¾ Male	¾ Male	¾ Male	1 Female
Diameter - Inches	8	10.5	12.5	16.0
Length - Inches	11	13.5	19.2	21.7
Weight - Lbs.	5.5	10	15	32

## Acceptance Volume

Air Side Pre-pressure (psi)	PLT-5	PLT-12	PLT-20	PLT-35
20	1.48	3.42	7.102	10.69
40	1.26	2.88	5.882	9.17
60	1.0	2.49	4.705	7.59
80	.8	1.85	4.009	6.07



A Watts Water Technologies Company



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## For Water Heater and Hot Water Storage Tank Applications

Job Name \_\_\_\_\_

Contractor \_\_\_\_\_

Job Location \_\_\_\_\_

Approval \_\_\_\_\_

Engineer \_\_\_\_\_

Contractor's P.O. No. \_\_\_\_\_

Approval \_\_\_\_\_

Representative \_\_\_\_\_

# LEAD FREE\*

## Series PLT

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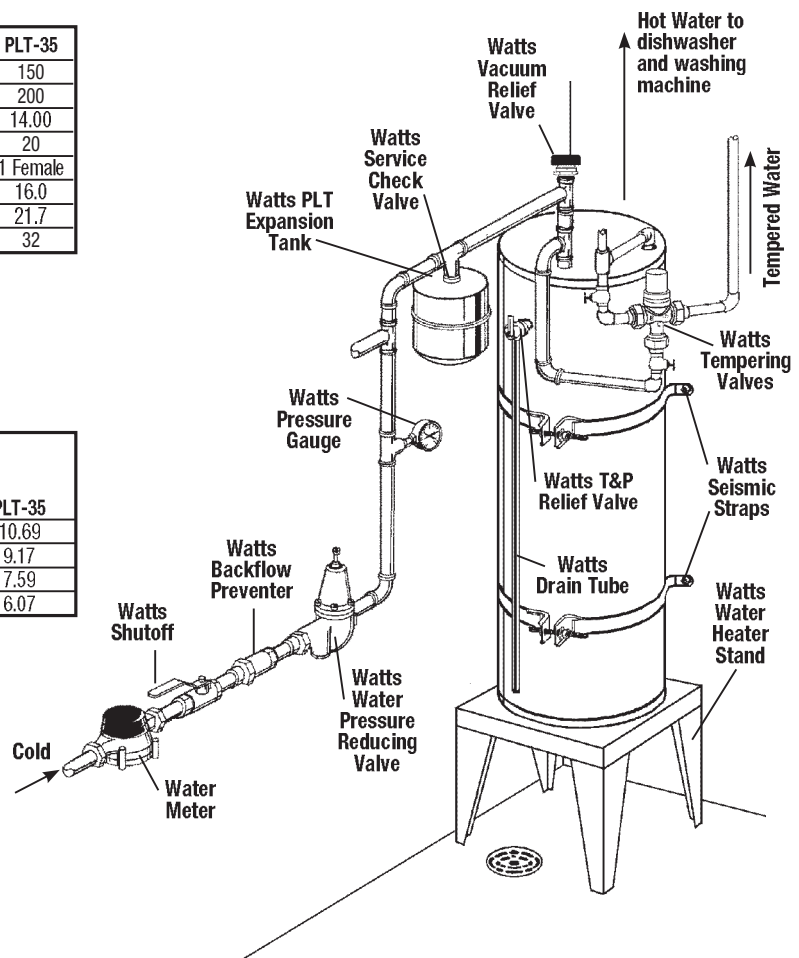
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	PLT-12		PLT-35
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