

## 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 #1112**  
5050 Tecumseh Road East, Building 3  
Windsor, Ontario

From: Kyle McCallum  
Date: January 30, 2025  
File No: 7320.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	<b><u>HWC</u></b> & <b><u>WC</u></b> : Ensure handicapped & non-handicapped water closet's flush valve sensor is located 3-1/2" above toilet's seat cover open position.  Ensure supplies are being provided for all sinks.



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

## Submittal

PROJECT NAME	PROJECT ADDRESS	DATE SUBMITTED
SDM 1112 WINDSOR	24-283 5050 TECUMSEH RD EAST, BUILDING 3, WINDSOR, ONTARIO	
TO	FROM	
JEREMY DAVIS		
COMPANY	COMPANY	
LESTER CONSTRUCTION GROUP INC.		
EMAIL	EMAIL	
jeremy@lestergroup.ca		
ADDRESS	ADDRESS	
3445 Wheelton Road, Unit 130, Windsor, Ontario N8W 5A6	54 Audia Court, Unit 2 Concord, ON L4K 3N5	


## Title

Plumbing Fixtures R.1


## Description

Items:

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

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.	7320	REVIEWED 
DATE	25.01.30	REVISED
BY	KJM	RESUBMIT

SEE NOTES & COMMENTS  
ON TRANSMITTAL


REVIEWED AS TO GENERAL ARRANGEMENT AND LAYOUT ONLY. DIMENSIONS AND COMPLIANCE WITH CONTRACT DRAWINGS AND SPECIFICATIONS ARE THE RESPONSIBILITY OF THE SUBCONTRACTOR
REVIEWED STATUS: Reviewed
PROJECT NUMBER: 25820
REVIEWED BY: Jeremy Davis
REVIEWED DATE: Jan 29, 2025

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

**SDM- 4990 TECUMSEH ROAD EAST**

**JAN 28, 2025**



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



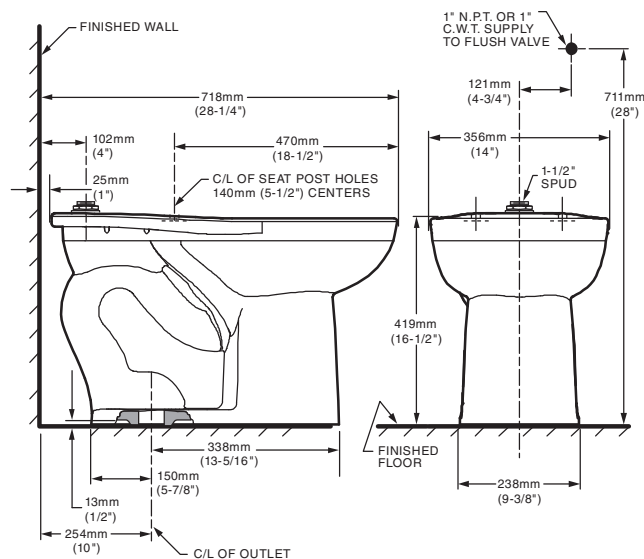




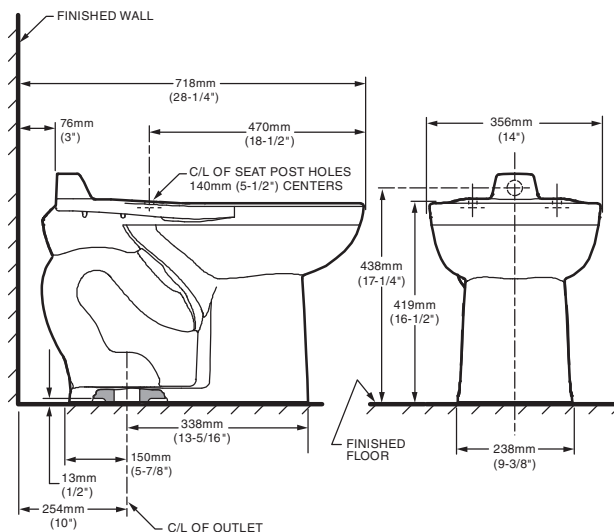
# MADERA™ FloWise® 16-1/2" HEIGHT ELONGATED FLUSHOMETER TOILET

VITREOUS CHINA with EVERCLEAN®

✓ 3461.001/3462.001/3465.001/3466.001



✗ 3463.001/3464.001



## NOTES:

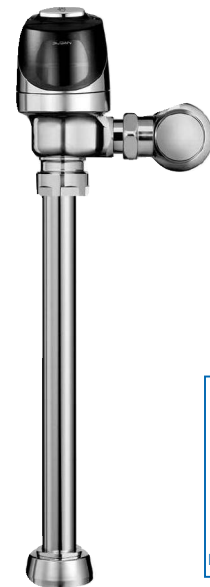
PRODUCT 3461 AND 3463 SHOWN, 3462 AND 3464 SAME EXCEPT WITH SLOTTED RIM FOR BED PAN HOLDING.  
TO COMPLY WITH AREA CODE GOVERNING THE HEIGHT OF VACUUM BREAKER ON THE FLUSHOMETER VALVE, THE PLUMBER MUST VERIFY DIMENSIONS SHOWN FOR SUPPLY ROUGHING.  
THIS TOILET DESIGNED TO ROUGH-IN AT A MINIMUM DIMENSION 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.

# 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

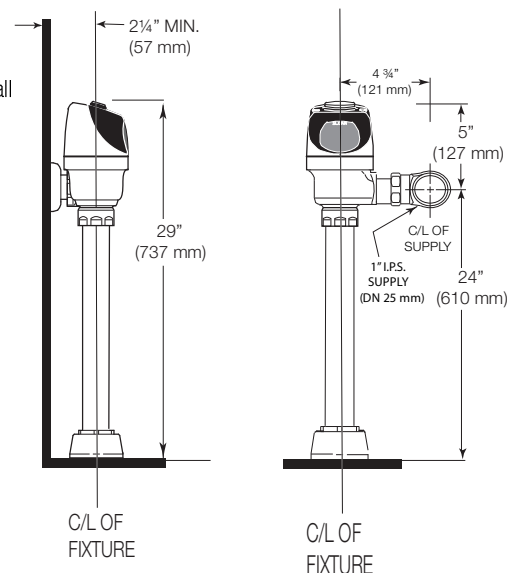
Range Adjustment/Low Battery

## ► Operating Pressure

15 - 100 psi (104 - 689 kPa)

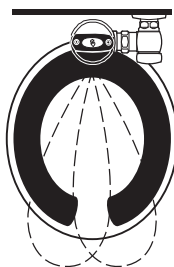
## ► Sentinel Flush

Once Every 24 Hours After the Last Flush

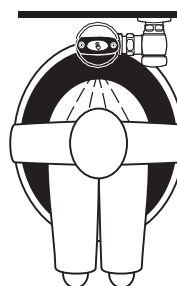


## OPERATION

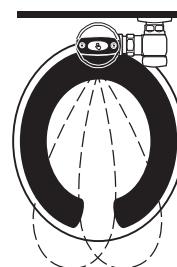
1. A continuous, invisible light beam is emitted from the OPTIMA Plus Sensor.



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.

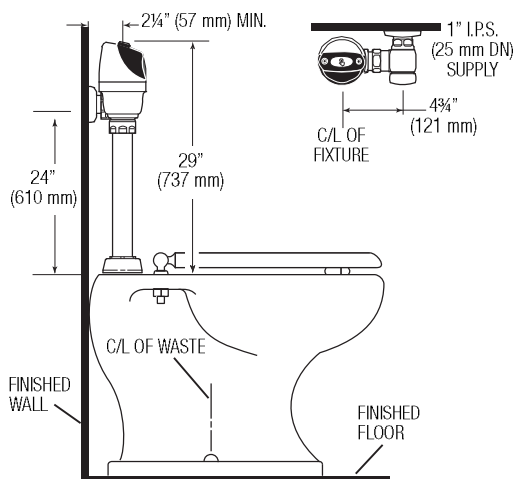


3. When the user steps away from the OPTIMA Plus Sensor, the circuit waits 3 seconds (to prevent false flushing) then initiates an electrical signal that operates the Solenoid. This initiates the flushing cycle to flush the fixture. The Circuit then automatically resets and is ready for the next user.



## 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

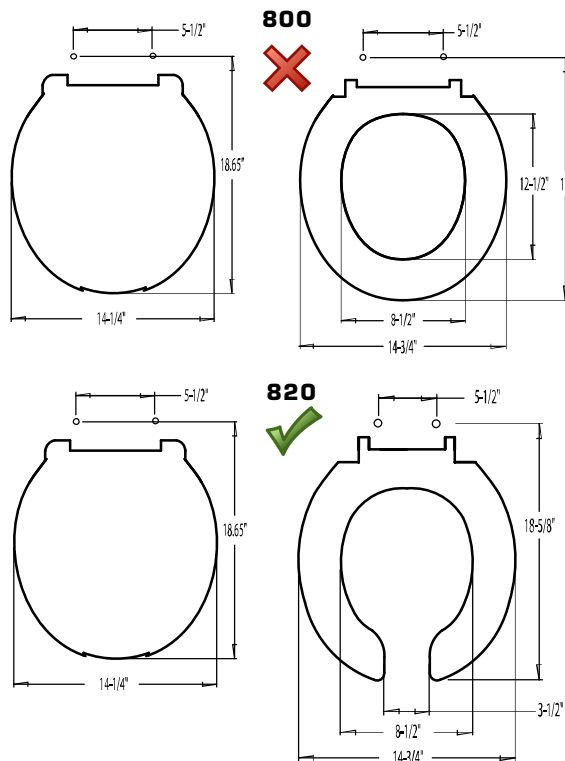


Available in Antimicrobial.  
Available in Fire-Retardant.

## 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Linen/ Biscuit	416	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Black	407	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bone/ Almond	106-A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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
- 100% factory flush tested

- ☒ **3451.001** Elongated bowl only, top spud
- ☐ **3452.001** Elongated bowl only, top spud with slotted rim for bedpan holding (White only)
- ☐ **3453.001** Elongated bowl only, back spud
- ☐ **3455.001** 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 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 A112.19.2-2008 / CSA B45.1-08 for Vitreous China Fixtures



SEE REVERSE FOR ROUGHING-IN DIMENSIONS

### To Be Specified:

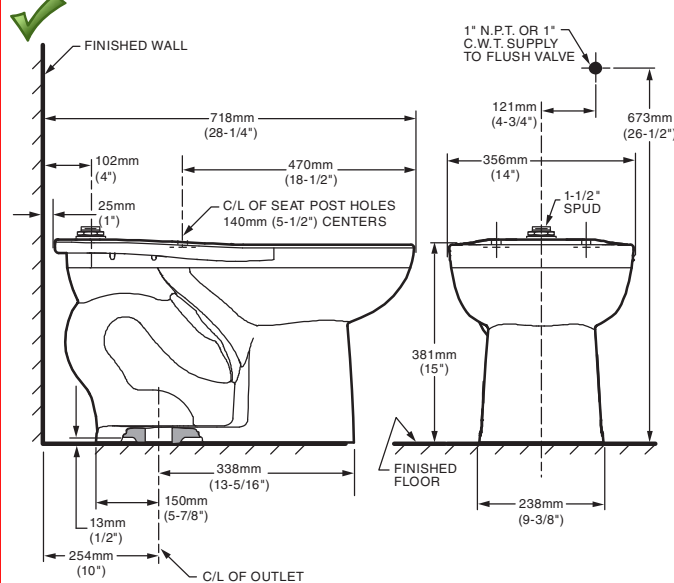
- ☒ Color: ☒ White ☐ Bone ☐ Linen
- ☐ Seat:
  - ☐ American Standard #5901.100 Heavy duty open front less cover
  - ☐ American Standard #5905.100 Extra heavy duty open front less cover
- ☐ Flushometer Valve:
  - ☐ 1.6 gpf:
    - ☐ Sensor-Operated: American Standard Selectronic® DC Power #6065.161.002 (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)

EVERCLEAN®  
Surface

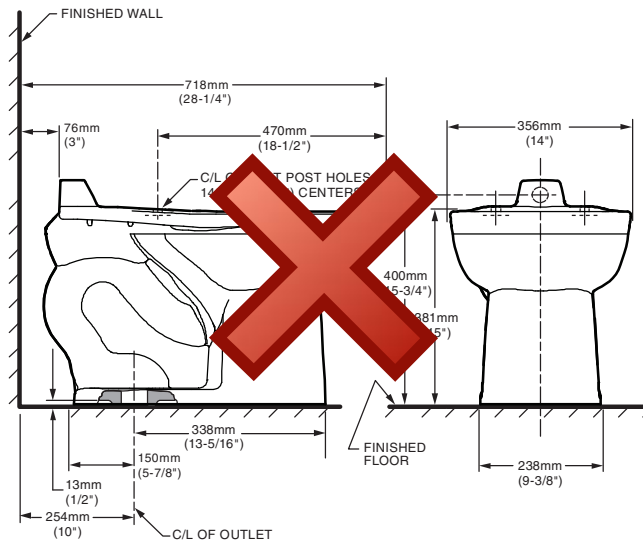




**3451.001/3452.001**



**3453.001/3455.001**



**NOTES:**

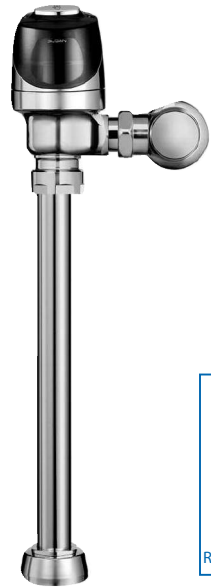
PRODUCT 3451 AND 3453 SHOWN, 3452 AND 3455 SAME EXCEPT WITH SLOTTED RIM FOR BED PAN HOLDING.  
TO COMPLY WITH AREA CODE GOVERNING THE HEIGHT OF VACUUM BREAKER ON THE FLUSHOMETER VALVE, THE PLUMBER MUST VERIFY DIMENSIONS SHOWN FOR SUPPLY ROUGHING.  
THIS TOILET DESIGNED TO ROUGH-IN AT A MINIMUM DIMENSION 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

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

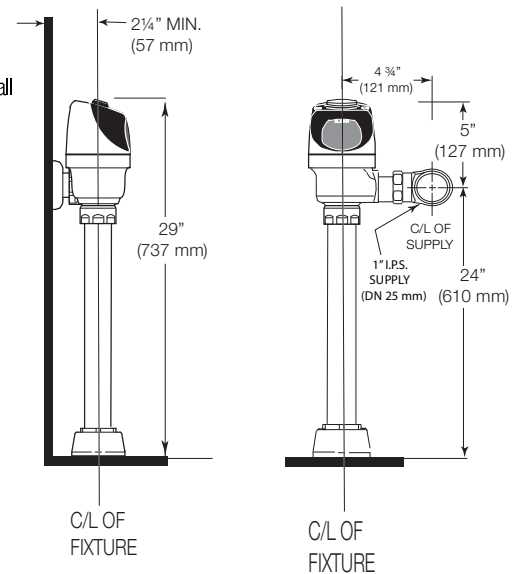
Range Adjustment/Low Battery

## ► Operating Pressure

15 - 100 psi (104 - 689 kPa)

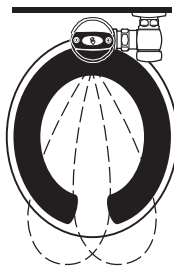
## ► Sentinel Flush

Once Every 24 Hours After the Last Flush

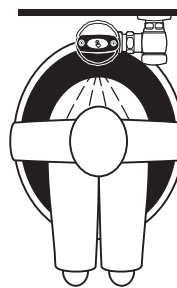


## OPERATION

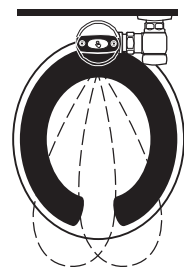
1. A continuous, invisible light beam is emitted from the OPTIMA Plus Sensor.



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.

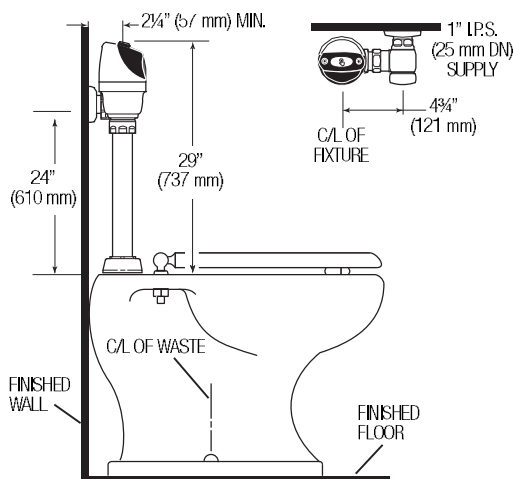


3. When the user steps away from the OPTIMA Plus Sensor, the circuit waits 3 seconds (to prevent false flushing) then initiates an electrical signal that operates the Solenoid. This initiates the flushing cycle to flush the fixture. The Circuit then automatically resets and is ready for the next user.



## 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

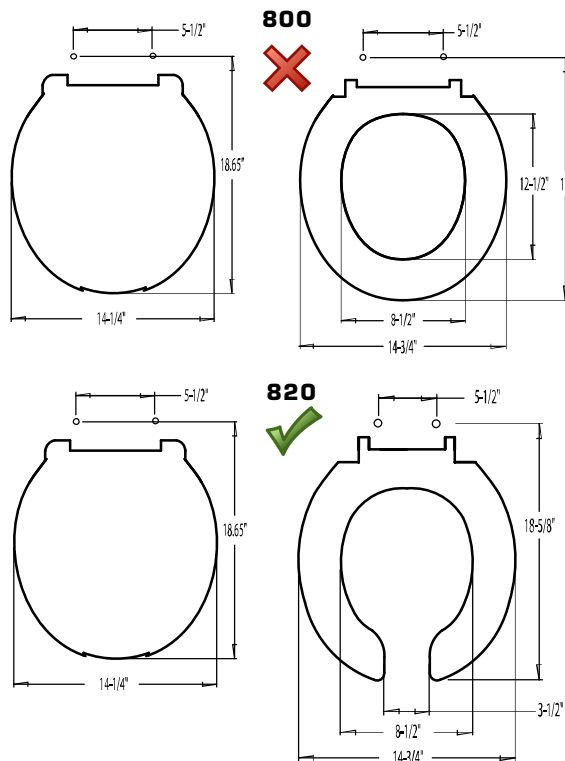


Available in Antimicrobial.  
Available in Fire-Retardant.

## 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Linen/ Biscuit	416	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Black	407	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bone/ Almond	106-A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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

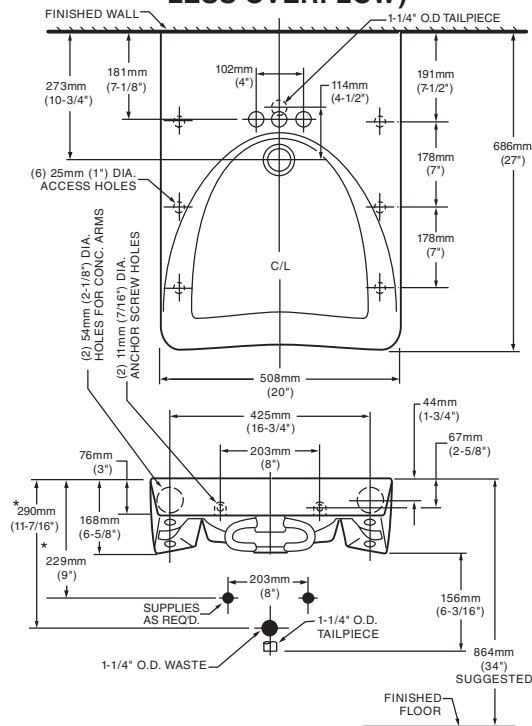


MEETS THE AMERICANS WITH DISABILITIES ACT GUIDELINES AND ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES - CHECK LOCAL CODES.  
Top of front rim mounted 864mm (34") from finished floor.

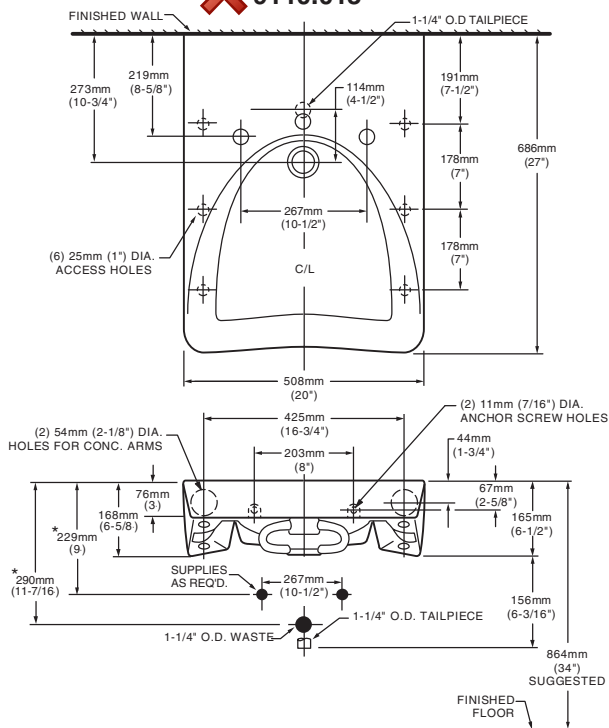




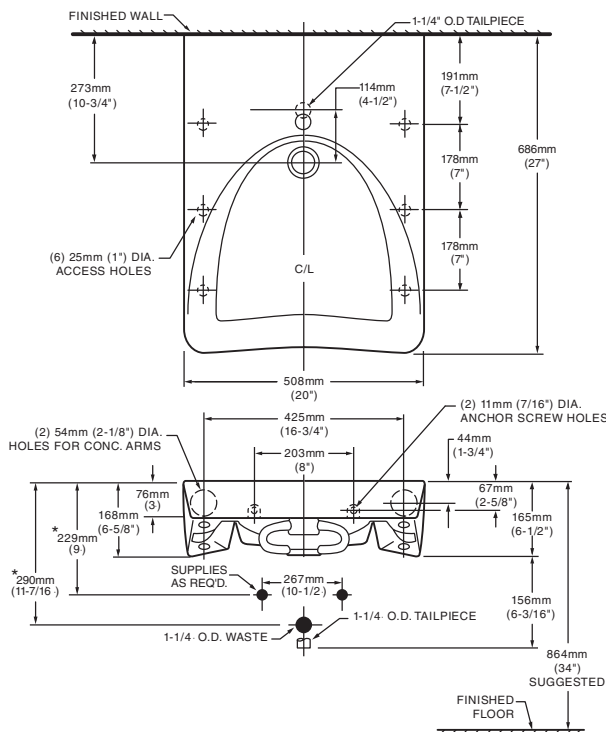
**✖ 9141.011 AND 9141.911 (MODIFICATION LESS OVERFLOW)**



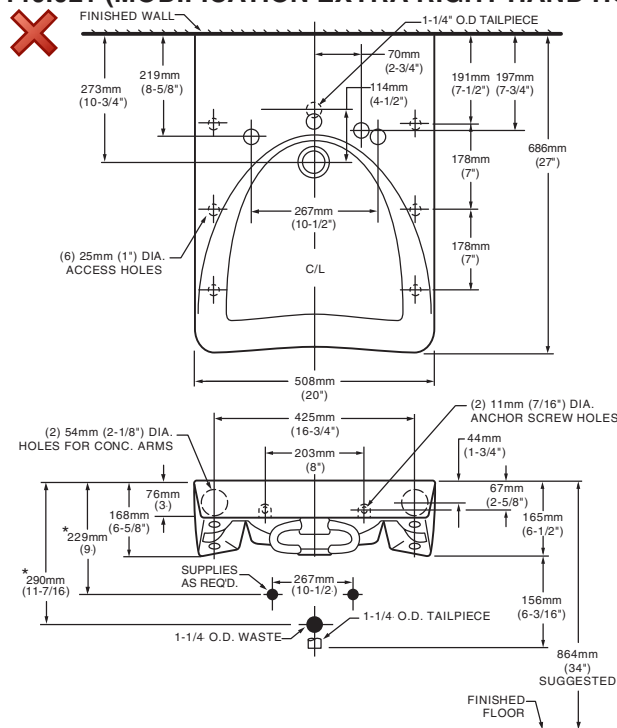
**X 9140.013**



9140.047 ✓



**9140.021 (MODIFICATION EXTRA RIGHT HAND HOLE)**



NOTES:

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

## CODE NUMBER

3362124

## DESCRIPTION

4" Trim Plate, Battery Power Supply, Back-Check Tee, Polished Chrome Finish, 0.5 gpm, Multi-Laminar Spray, Infrared Sensor, Sloan® Battery-Powered Deck-Mounted Mid Body Faucet.

## DETAILS

- Flow Rate: 0.5 gpm (1.9 Lpm) (0.5GPM)
- Spray Type: Multi-Laminar (MLM)
- Spout Type: Pedestal
- Sensor Type: Infrared
- Mounting Type: Single Hole
- Trim Plate: 4" (102mm) (4)
- Power Supply: Battery (BAT)
- Temperature Mixer: Back-Check Tee (TEE)
- Finish: Polished Chrome (CP)
- Factory Default Timeout: 30 seconds
- Factory Default Gallons per Cycle: 0.25

## FEATURES

Commercial Grade, ADA Compliant, Electronic, Sensor-Activated, Brass Pedestal Hand Washing Faucet with the following features:

- Adjustable Infrared Sensor Range
- 36" (914 mm) Long Sensor Cable
- 24" (610 mm) Long Flex Hose
- Filtered Solenoid Valve with serviceable Strainer Filter
- Includes Four (4) AA-size Batteries
- Includes appropriate Mounting Hardware

## ELECTRICAL SPECIFICATIONS

- Battery Life: 2 years 8,000 cycles/month
- Timeout Adjustment Settings: 30s

## VIDEOS

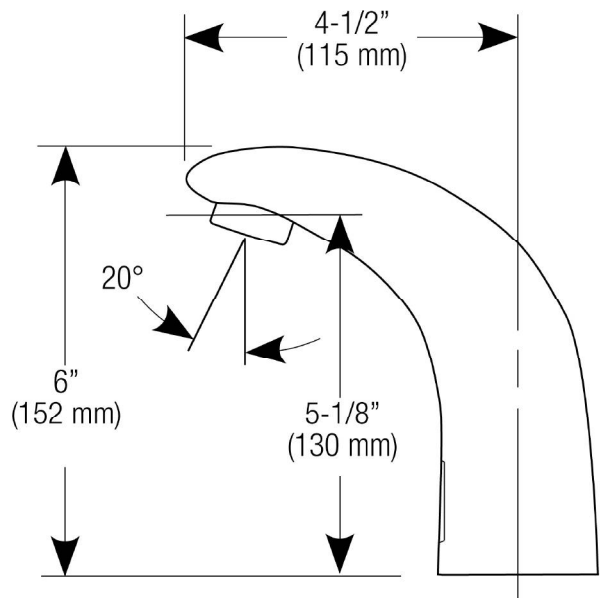
- ▶ SF-2100/2150/SF-2200/2250/SF-2300/2350/SF-2400/2450 Parts Breakdown
- ▶ SF-2100/2150/SF-2200/2250/SF-2300/2350/SF-2400/2450 Module Replacement
- ▶ SF-2100/2150/SF-2200/2250/SF-2300/2350/SF-2400/2450 Battery Replacement- Sensor Range Adjustment

## DOWNLOADS

- SF Series Installation Instructions
- SF Series (FR) Installation Instructions
- SF Series (SP) Installation Instructions
- SFP 35-A Installation Instructions
- Trim Plate Guide
- SF-2400/2450 Repair and Maintenance Guide
- Faucet Spray Heads Repair and Maintenance Guide
- Additional Downloads



Variation not shown: 4" Trim Plate



## COMPLIANCES & CERTIFICATIONS



(ADA Compliant, ASME A112.18.1 Compliant, CalGreen Compliant, CEC Compliant, cUPC Certified, cUPC Low Lead Compliant, GPC 0.25 or less, IAPMO, NSF-61, NYC604.4, Proposition 65, TAS, UPC Certified, UPC Low Lead Compliant, WaterSense Listed, WELL Building Standard)

## NOTES

All information contained within this document subject to

**Sloan 10500 Seymour Ave, Franklin Park, IL 60131**  
 Phone: 800.982.5839 • Fax: 800.447.8329 • [sloan.com](http://sloan.com)



**SLOAN® SENSOR FAUCET**  
**SF-2450-4-BAT-TEE-CP-0.5GPM-MLM-FCT**  
(General Model Name: SF2450-4 CP FCT PEDESTAL 4" BATTERY)

change without notice.

Looking for other variations of the SF-2450 product? View the general spec sheet with all options.

Find a matching soap dispenser for this faucet.

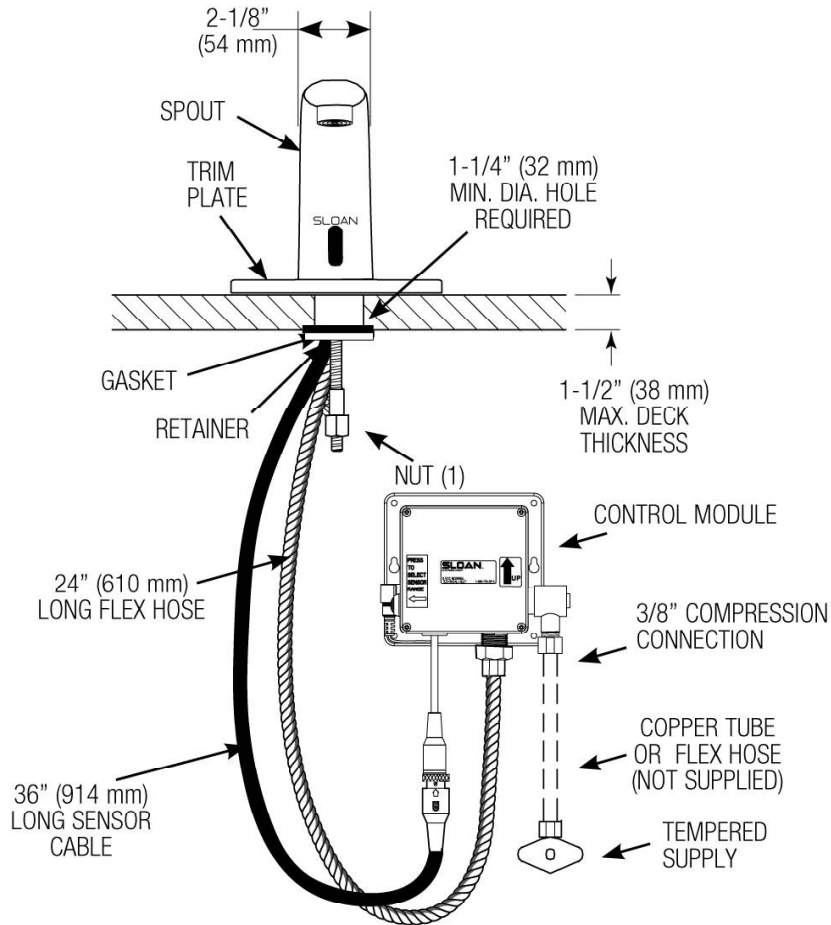
Find a compatible sink for this faucet.

**WARRANTY**

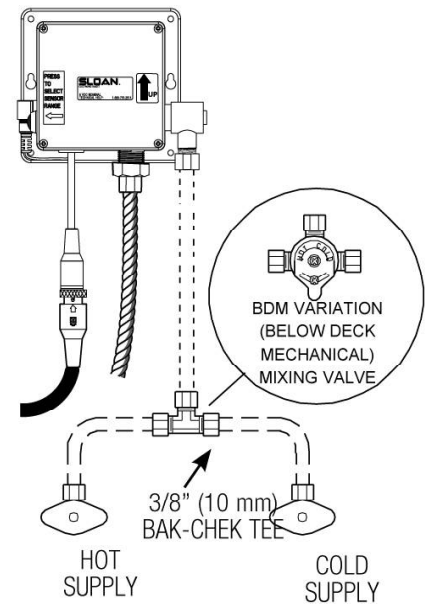
[View Warranty Information](#)

**Sloan 10500 Seymour Ave, Franklin Park, IL 60131**  
Phone: 800.982.5839 • Fax: 800.447.8329 • [sloan.com](http://sloan.com)

## ROUGH-IN



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







# ½" Lead Free Thermostatic Mixing Valve Model # SL-BDT-LF

## Description:

The SL-BDT-LF is a point of use thermostatic mixing valve, designed to deliver water at a predetermined temperature and limit the impact of thermal shock and help prevent scalding. The NEO TMV-LF is constructed from low lead materials and conforms to ASSE 1070, CSA B 125.3-11, ASSE 1017-2009 and NSF 61/ANSI 372-2010.

## Features:

- ½" NPT Inlets and outlet with external checks
- Forged, low lead (CW510L) brass body and EPDM seals
- All valves include ⅜" faucet connection fitting

## Performance Ratings:

Mixed Outlet Temperature: 95°F – 131°F (35°C-55°C)

Minimum Cold Inlet Temperature: 43°F (6°C)

Maximum Hot Inlet Temperature: 185°F (85°C)

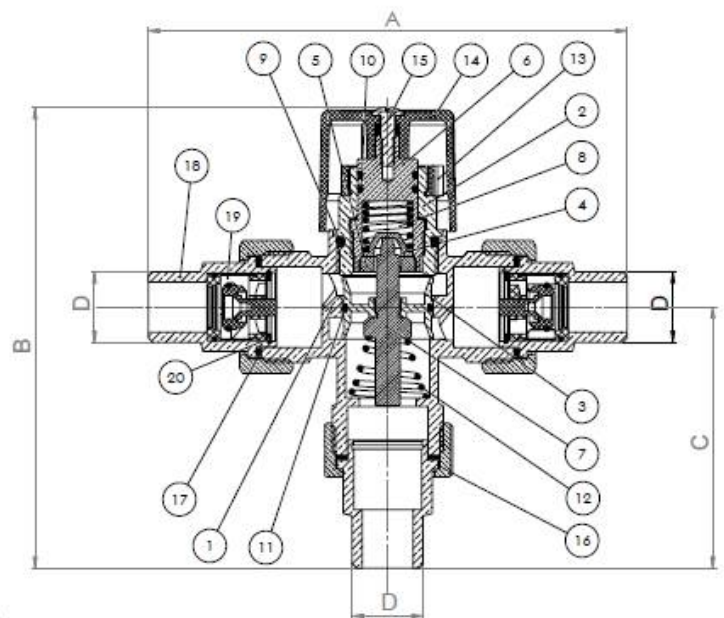
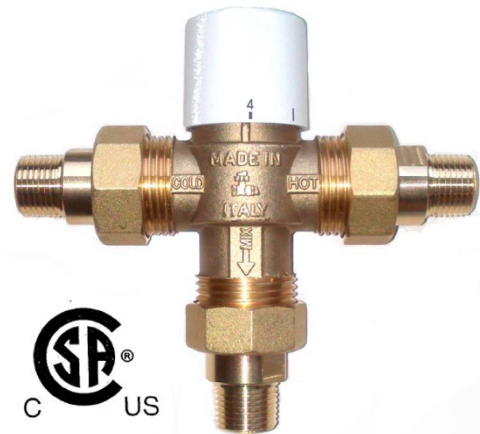
Minimum Working Pressure: 30 PSI

Maximum Working Pressure: 150 PSI

## Dimensions and Materials:

Nº.	Q. ty	Description	Material
20	2	Ring	STEEL
19	2	Check valve	
18	3	Tang	BRASS CW510L "USA"
17	3	Washer	FIBER
16	3	Nut	BRASS CW510L "USA"
15	1	Screw	STEEL
14	1	Handle	ABS
13	1	Ring	PLASTIC
12	1	Conical spring	ANSI 302 UNI ISO 6931
11	1	O-Ring	EPDM
10	2	O-Ring	EPDM
9	1	O-Ring	EPDM
8	1	Spring	ANSI 302 UNI ISO 6931
7	1	Bulb	—
6	1	Stem	BRASS CW510L "USA"
5	1	Ring	BRASS CW510L "USA"
4	1	Small piston	BRASS CW510L "USA"
3	1	Piston	BRASS CW510L "USA"
2	1	Head screw	BRASS CW510L "USA"
1	1	Body	BRASS CW510L "USA"

ALTERNATE EQUAL

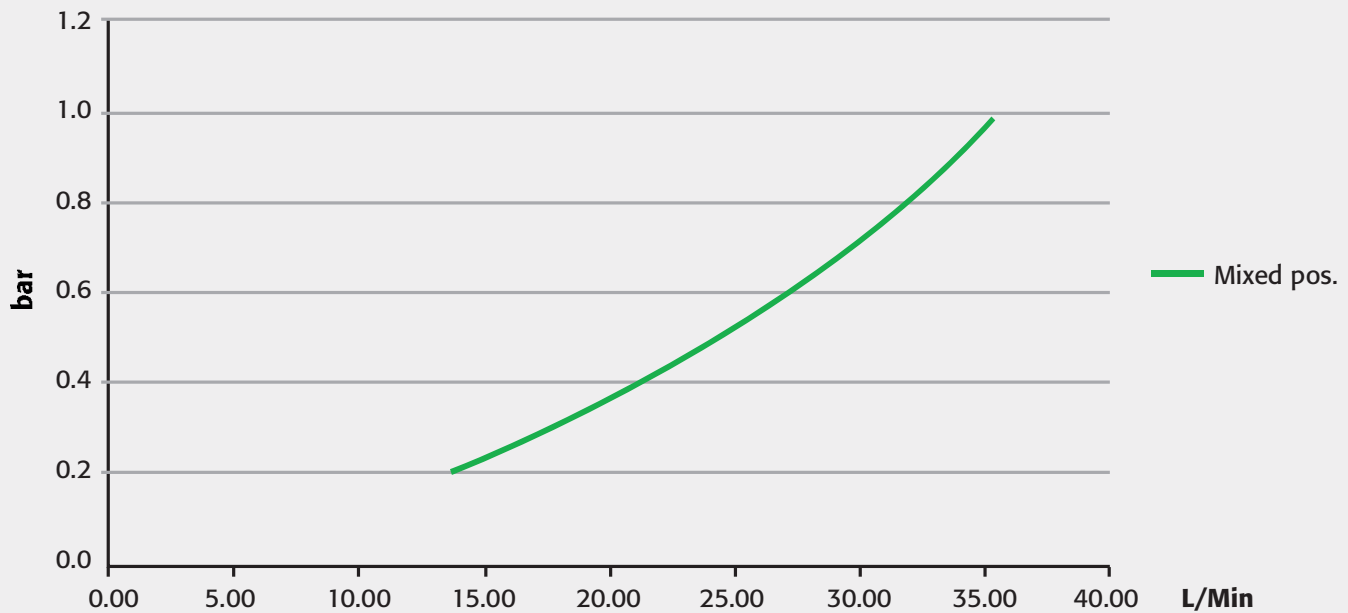


## EXTERNAL THREADED WITH CHECK VALVES

DN	D	D	A	B	C
15	G ½"	½" NPT	140 (5.51")	132 (5.19")	78 (3.07")

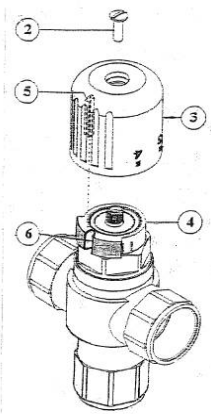
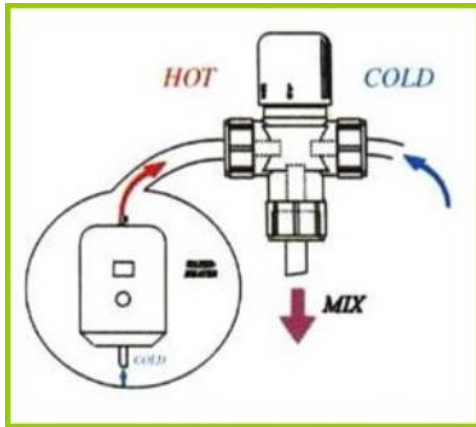
# ½" Lead Free Thermostatic Mixing Valve Model # SL-BDT-LF

## Flow Rates:



At 15 PSI ( 1.0 bar) pressure drop, flow is 9.6 GPM (36.5 LPM)

## Temperature Calibration:



- Turn the handle (3) until you reach the desired temperature
- The position and the temperature on the handle (3) are memorized on the screw valve (1)
- Remove the handle (3)
- By repositioning the handle (3) take care that the internal pin (5) is set in the correct seat (6) on the temperature limiter (4)
- Replace the screw (2)

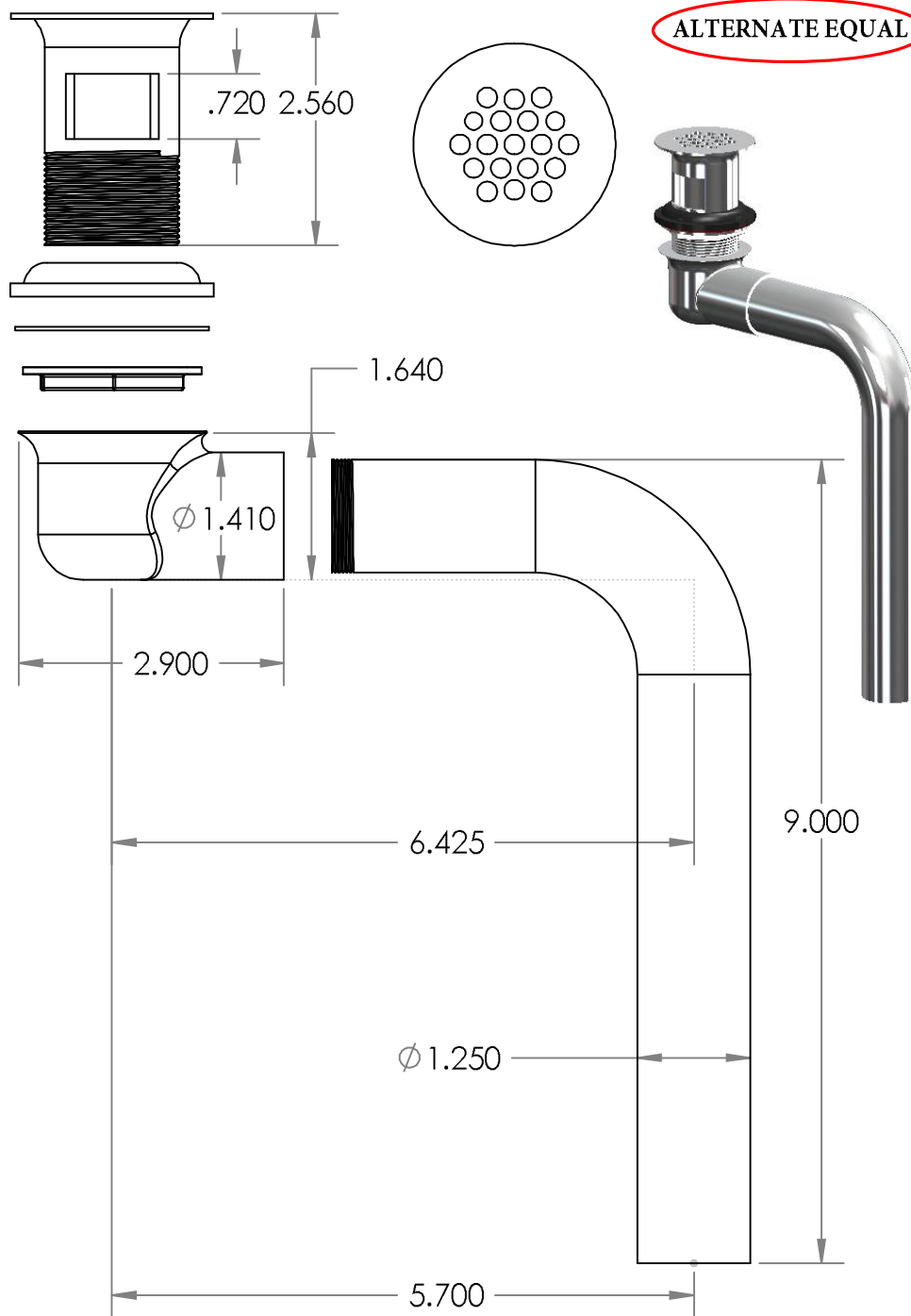
Job Name:

Space For Engineer Approval:



# 3700WC P.O. OFFSET LAV DRAIN SERIES

## PRODUCT Specifications



ALTERNATE EQUAL



**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 =

**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)



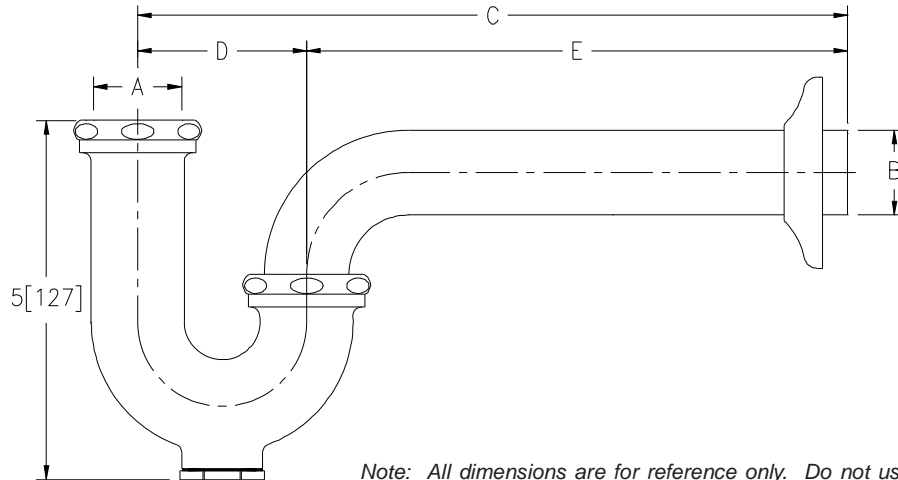
# SEMI-CAST P-TRAPS WITH WALL BEND

## 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.



ALTERNATE EQUAL



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

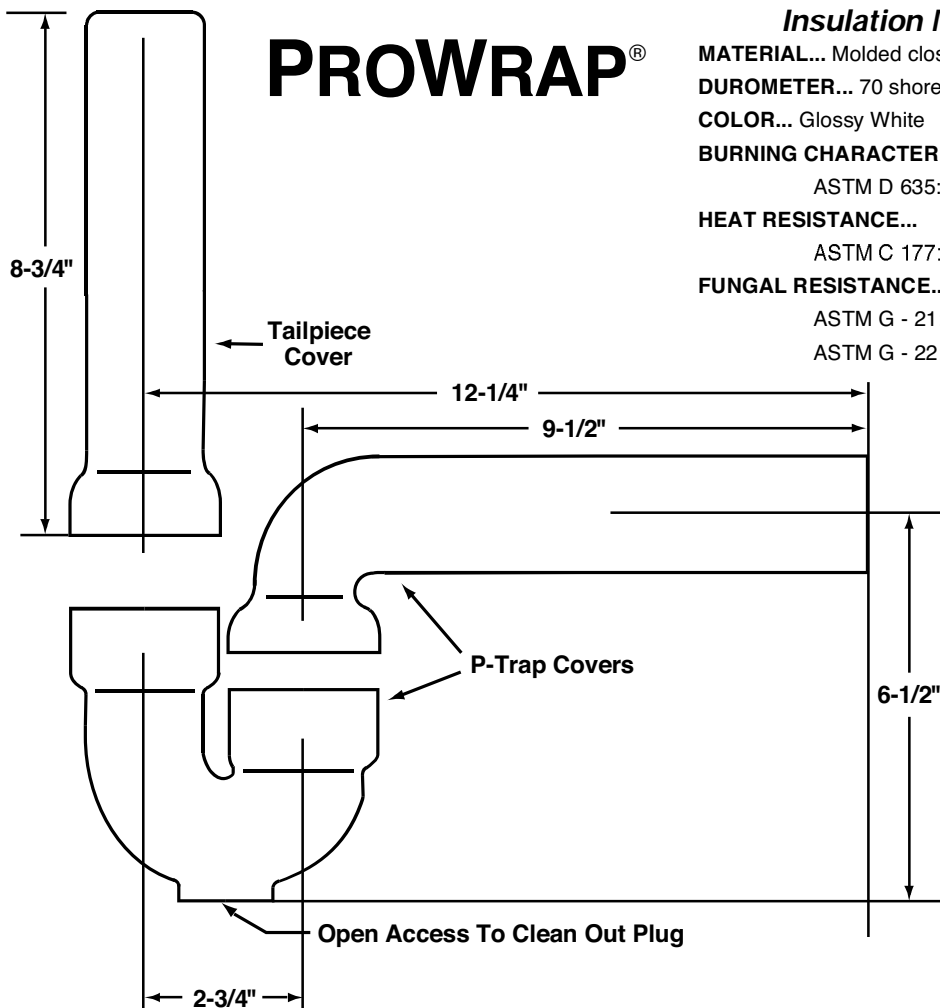
### Part No.

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...**

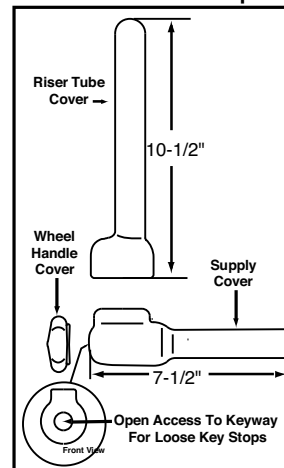
ASTM C 177: BTU - in/hr - ft 2 - °F KValue = 1.02

**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" & 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.



**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



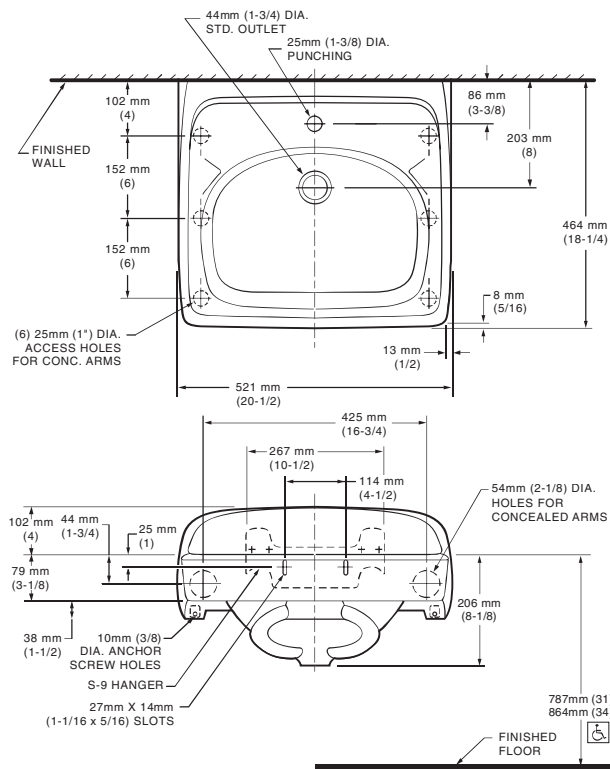
MEETS THE AMERICANS WITH DISABILITIES ACT GUIDELINES AND ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES - CHECK LOCAL CODES.  
Top of front rim mounted 864mm (34") from finished floor.

# American Standard

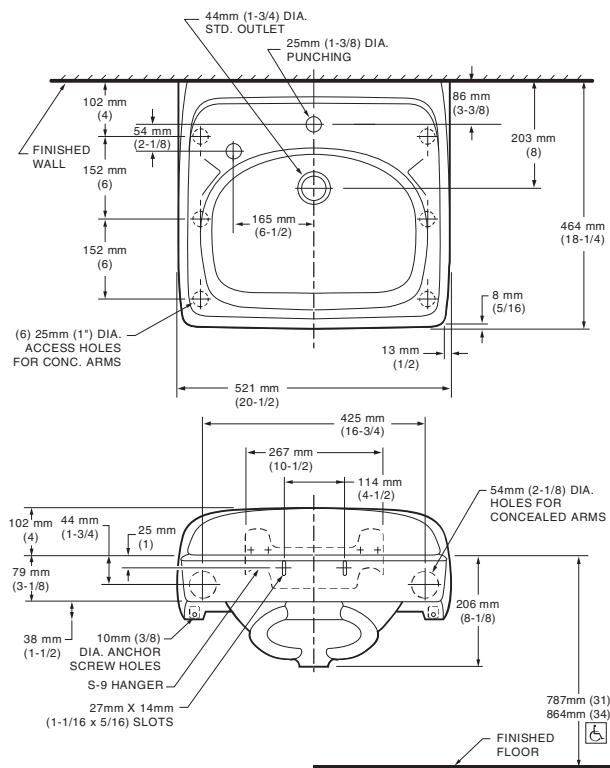
Style That Works Better

 BARRIER FREE

## 0356.421 SINGLE CENTER HOLE FOR WALL HANGER OR CONCEALED ARMS



## 0356.115 SINGLE CENTER HOLE FOR WALL HANGER OR CONCEALED ARMS WITH EXTRA LEFT HAND HOLE

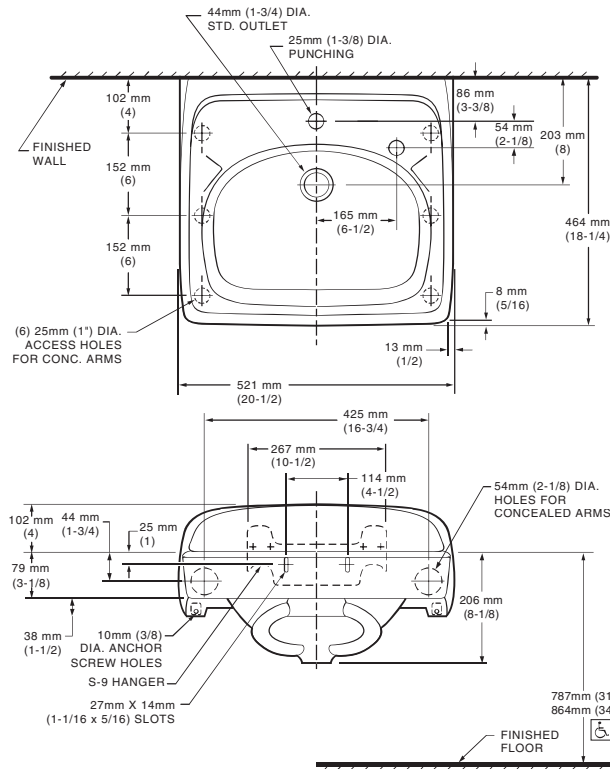


# LUCERNE™

## WALL-HUNG LAVATORY

VITREOUS CHINA

## 0356.137 SINGLE CENTER HOLE FOR WALL HANGER OR CONCEALED ARMS WITH EXTRA RIGHT 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.

## CODE NUMBER

3362124

## DESCRIPTION

4" Trim Plate, Battery Power Supply, Back-Check Tee, Polished Chrome Finish, 0.5 gpm, Multi-Laminar Spray, Infrared Sensor, Sloan® Battery-Powered Deck-Mounted Mid Body Faucet.

## DETAILS

- Flow Rate: 0.5 gpm (1.9 Lpm) (0.5GPM)
- Spray Type: Multi-Laminar (MLM)
- Spout Type: Pedestal
- Sensor Type: Infrared
- Mounting Type: Single Hole
- Trim Plate: 4" (102mm) (4)
- Power Supply: Battery (BAT)
- Temperature Mixer: Back-Check Tee (TEE)
- Finish: Polished Chrome (CP)
- Factory Default Timeout: 30 seconds
- Factory Default Gallons per Cycle: 0.25

## FEATURES

Commercial Grade, ADA Compliant, Electronic, Sensor-Activated, Brass Pedestal Hand Washing Faucet with the following features:

- Adjustable Infrared Sensor Range
- 36" (914 mm) Long Sensor Cable
- 24" (610 mm) Long Flex Hose
- Filtered Solenoid Valve with serviceable Strainer Filter
- Includes Four (4) AA-size Batteries
- Includes appropriate Mounting Hardware

## ELECTRICAL SPECIFICATIONS

- Battery Life: 2 years 8,000 cycles/month
- Timeout Adjustment Settings: 30s

## VIDEOS

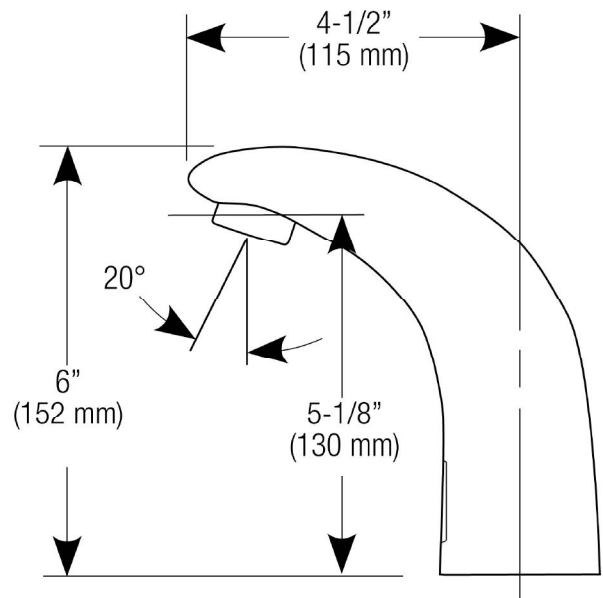
- ▶ SF-2100/2150/SF-2200/2250/SF-2300/2350/SF-2400/2450 Parts Breakdown
- ▶ SF-2100/2150/SF-2200/2250/SF-2300/2350/SF-2400/2450 Module Replacement
- ▶ SF-2100/2150/SF-2200/2250/SF-2300/2350/SF-2400/2450 Battery Replacement- Sensor Range Adjustment

## DOWNLOADS

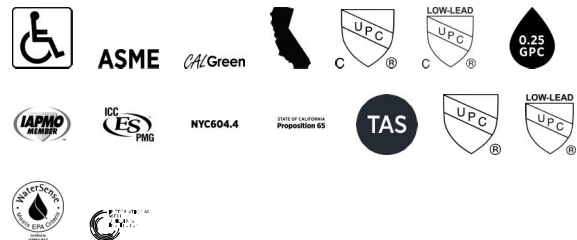
- SF Series Installation Instructions
- SF Series (FR) Installation Instructions
- SF Series (SP) Installation Instructions
- SFP 35-A Installation Instructions
- Trim Plate Guide
- SF-2400/2450 Repair and Maintenance Guide
- Faucet Spray Heads Repair and Maintenance Guide
- Additional Downloads



Variation not shown: 4" Trim Plate



## COMPLIANCES & CERTIFICATIONS



(ADA Compliant, ASME A112.18.1 Compliant, CalGreen Compliant, CEC Compliant, cUPC Certified, cUPC Low Lead Compliant, GPC 0.25 or less, IAPMO, NSF-61, NYC604.4, Proposition 65, TAS, UPC Certified, UPC Low Lead Compliant, WaterSense Listed, WELL Building Standard)

## NOTES

All information contained within this document subject to

**Sloan 10500 Seymour Ave, Franklin Park, IL 60131**  
 Phone: 800.982.5839 • Fax: 800.447.8329 • [sloan.com](http://sloan.com)



L

**SLOAN® SENSOR FAUCET**  
**SF-2450-4-BAT-TEE-CP-0.5GPM-MLM-FCT**  
(General Model Name: SF2450-4 CP FCT PEDESTAL 4" BATTERY)

---

change without notice.

Looking for other variations of the SF-2450 product? View the general spec sheet with all options.

Find a matching soap dispenser for this faucet.

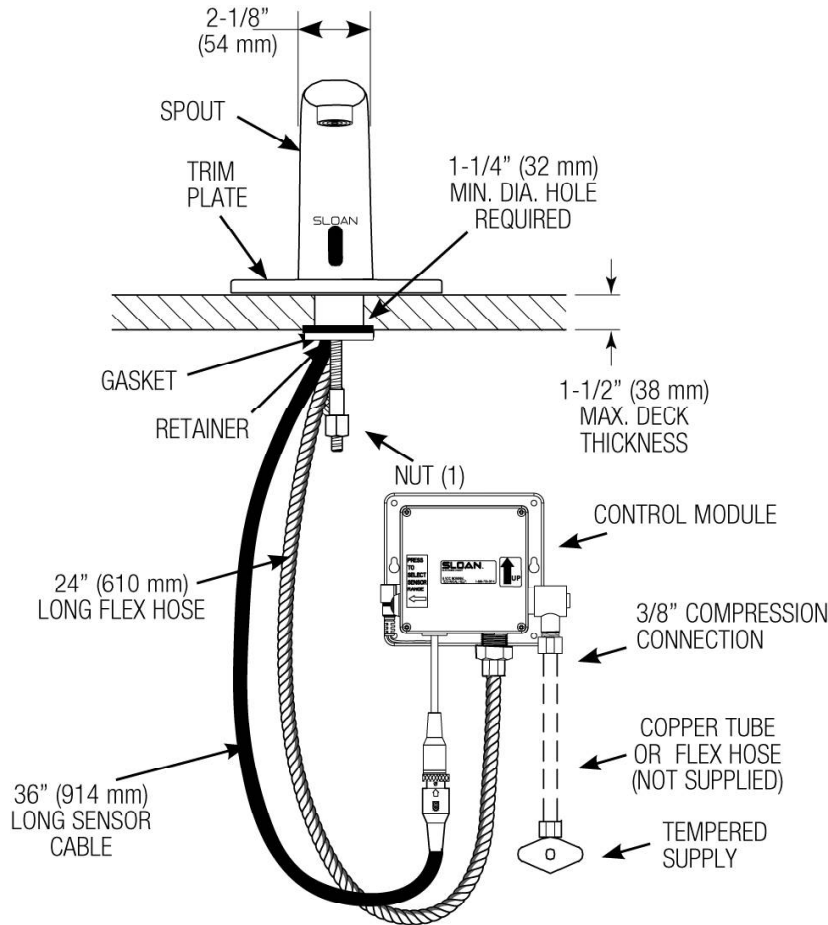
Find a compatible sink for this faucet.

**WARRANTY**

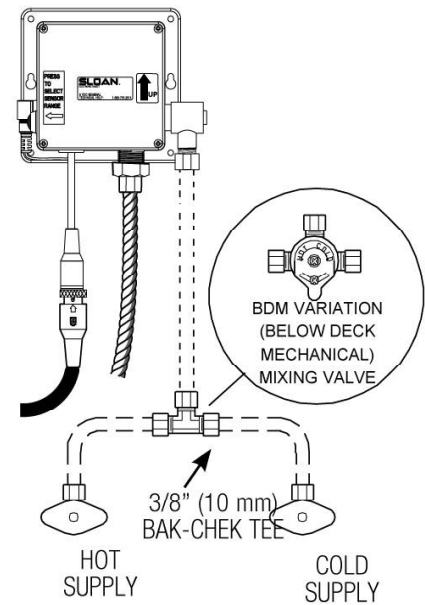
[View Warranty Information](#)

**Sloan 10500 Seymour Ave, Franklin Park, IL 60131**  
Phone: 800.982.5839 • Fax: 800.447.8329 • [sloan.com](http://sloan.com)

**ROUGH-IN**



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







# 1/2" Lead Free Thermostatic Mixing Valve Model # SL-BDT-LF

## Description:

The SL-BDT-LF is a point of use thermostatic mixing valve, designed to deliver water at a predetermined temperature and limit the impact of thermal shock and help prevent scalding. The NEO TMV-LF is constructed from low lead materials and conforms to ASSE 1070, CSA B 125.3-11, ASSE 1017-2009 and NSF 61/ANSI 372-2010.

## Features:

- 1/2" NPT Inlets and outlet with external checks
- Forged, low lead (CW510L) brass body and EPDM seals
- All valves include 3/8" faucet connection fitting

## Performance Ratings:

Mixed Outlet Temperature: 95°F – 131°F (35°C-55°C)

Minimum Cold Inlet Temperature: 43°F (6°C)

Maximum Hot Inlet Temperature: 185°F (85°C)

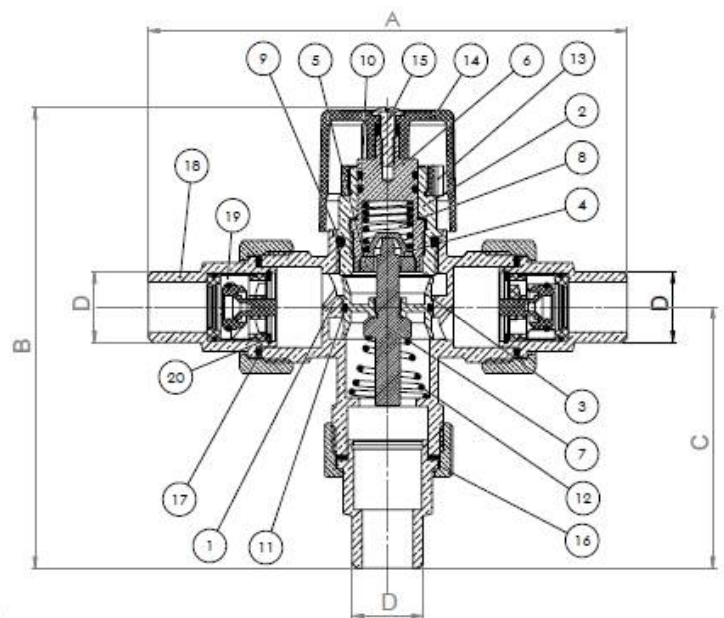
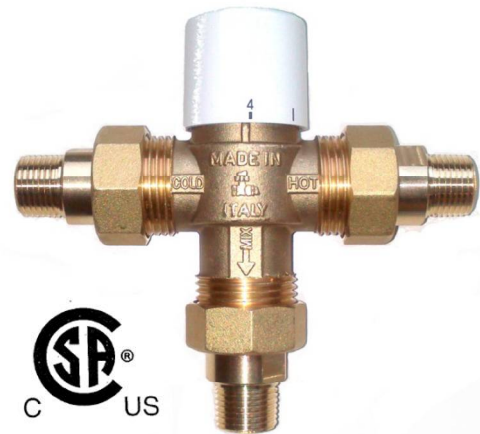
Minimum Working Pressure: 30 PSI

Maximum Working Pressure: 150 PSI

## Dimensions and Materials:

Nº.	Q. ty	Description	Material
20	2	Ring	STEEL
19	2	Check valve	
18	3	Tang	BRASS CW510L "USA"
17	3	Washer	FIBER
16	3	Nut	BRASS CW510L "USA"
15	1	Screw	STEEL
14	1	Handle	ABS
13	1	Ring	PLASTIC
12	1	Conical spring	ANSI 302 UNI ISO 6931
11	1	O-Ring	EPDM
10	2	O-Ring	EPDM
9	1	O-Ring	EPDM
8	1	Spring	ANSI 302 UNI ISO 6931
7	1	Bulb	—
6	1	Stem	BRASS CW510L "USA"
5	1	Ring	BRASS CW510L "USA"
4	1	Small piston	BRASS CW510L "USA"
3	1	Piston	BRASS CW510L "USA"
2	1	Head screw	BRASS CW510L "USA"
1	1	Body	BRASS CW510L "USA"

ALTERNATE EQUAL



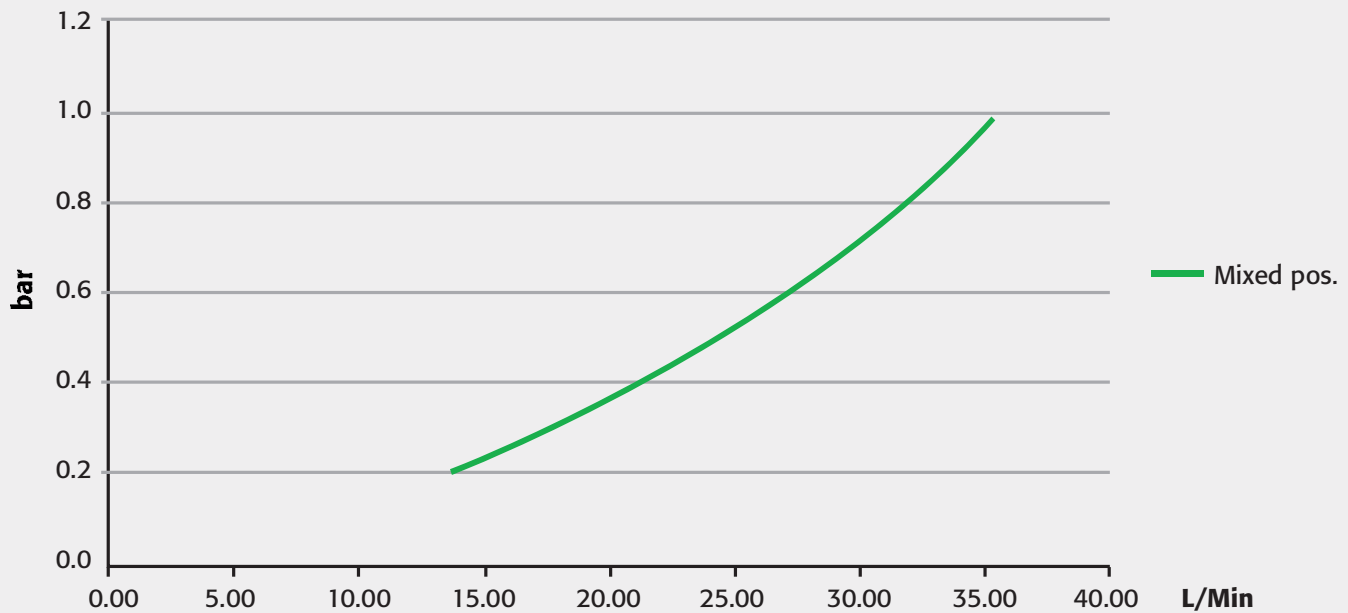
## EXTERNAL THREADED WITH CHECK VALVES

DN	D	D	A	B	C
15	G 1/2"	1/2" NPT	140 (5.51")	132 (5.19")	78 (3.07")



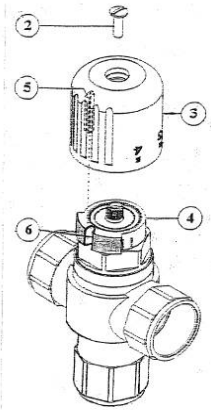
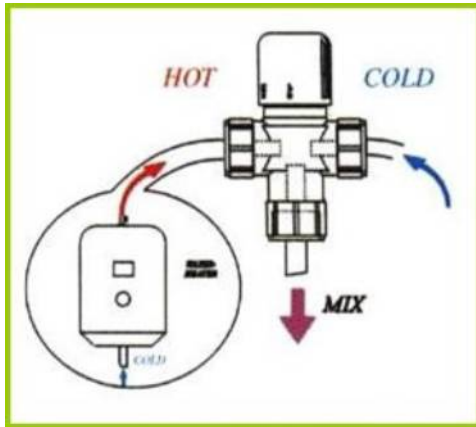
# 1/2" Lead Free Thermostatic Mixing Valve Model # SL-BDT-LF

## Flow Rates:



At 15 PSI ( 1.0 bar) pressure drop, flow is 9.6 GPM (36.5 LPM)

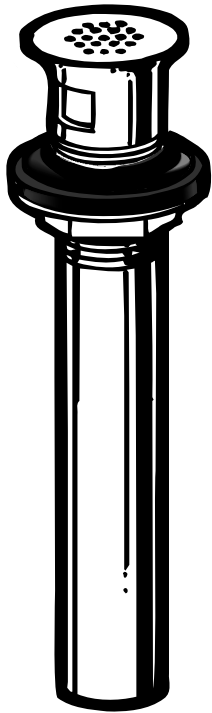
## Temperature Calibration:



- Turn the handle (3) until you reach the desired temperature
- The position and the temperature on the handle (3) are memorized on the screw valve (1)
- Remove the handle (3)
- By repositioning the handle (3) take care that the internal pin (5) is set in the correct seat (6) on the temperature limiter (4)
- Replace the screw (2)

Job Name:

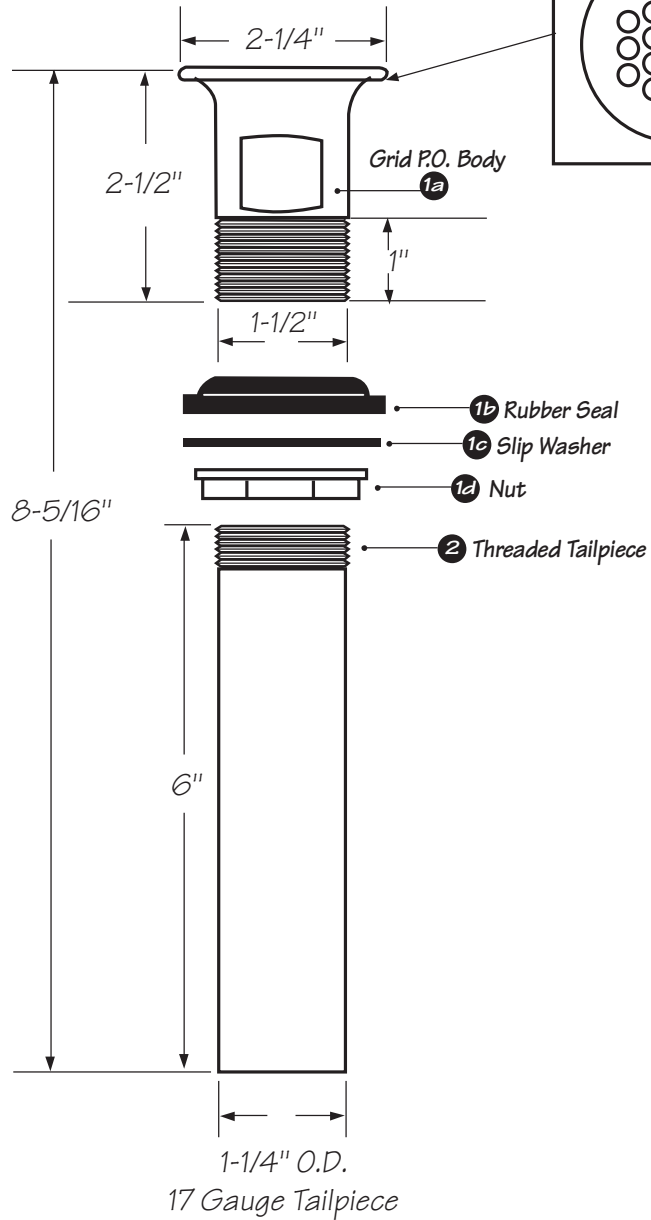
Space For Engineer Approval:




ALTERNATE EQUAL



19 Hole Pattern  
0.20" hole size



1	370	Grid P.O. Body Assembly	 OAKVILLE STAMPING & BENDING		
			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



# SEMI-CAST P-TRAPS WITH WALL BEND

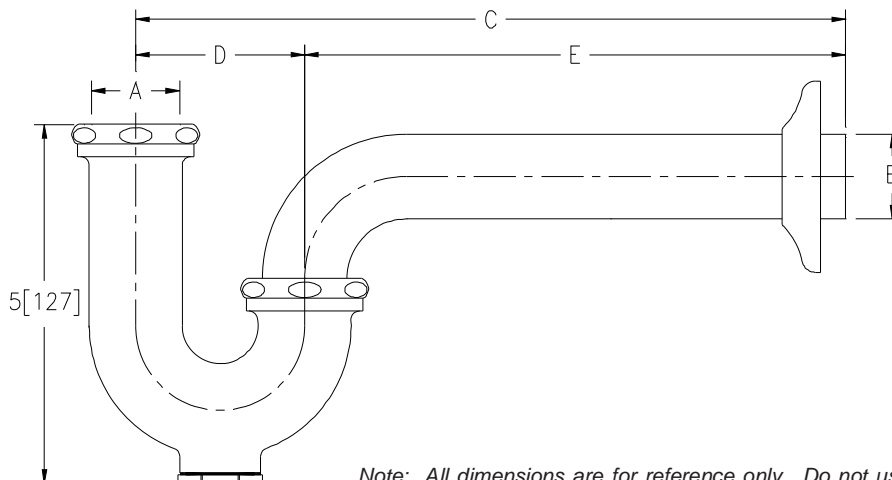
## Z8700-PC TO Z8708-PC

### 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.

ALTERNATE EQUAL



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


**QCLA2027L/8 SHOWN**

**Included Accessories**


CA1W

**Optional Accessories**


DBR10S



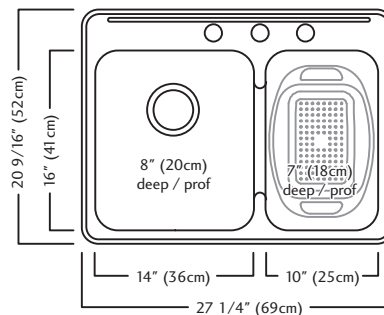
MB1610



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

# Manual Sink Faucets 1100-GN8AE35-317AB

## Product Type

## 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.
- 






## Performance Specification

- 
- 

## Warranty

- 
- Lifetime Limited Faucet 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 \_\_\_\_\_

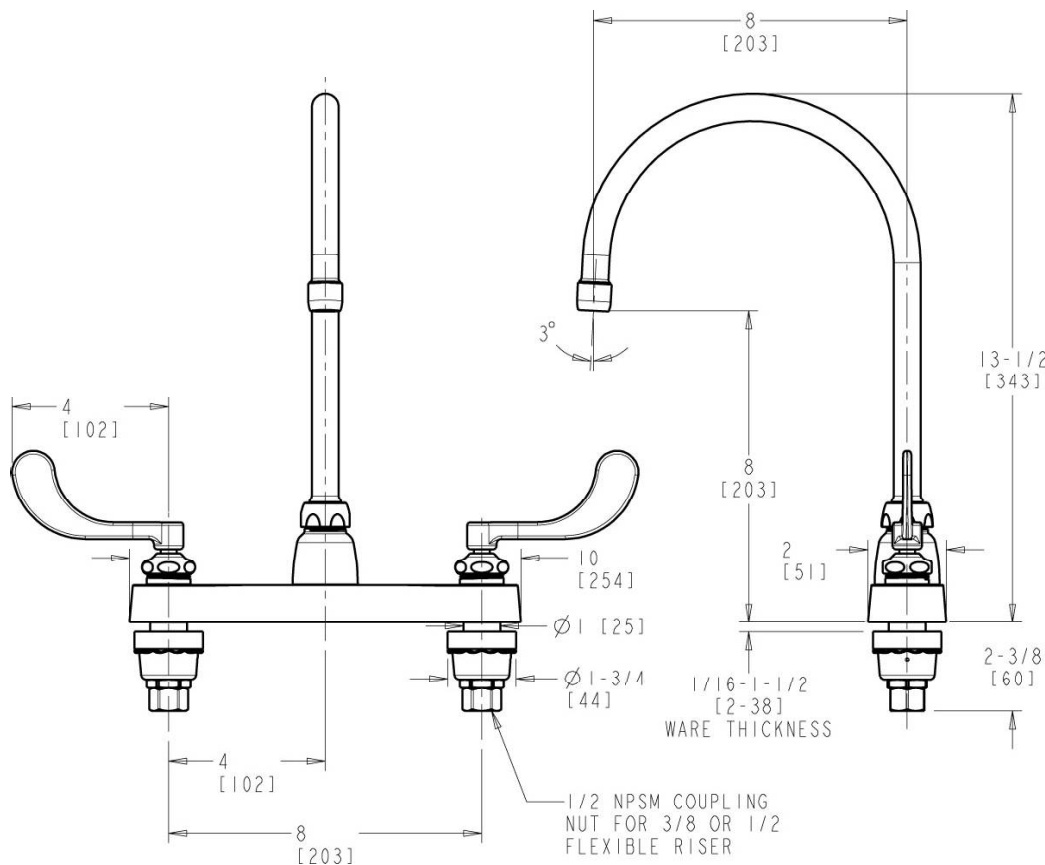


### ECAST

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.

## 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 Soffflo aerator. 4" metal, vandal-proof, wristblade handles with sixteen-point, tapered broach and secured blue and red index buttons. Quaturn™ 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,



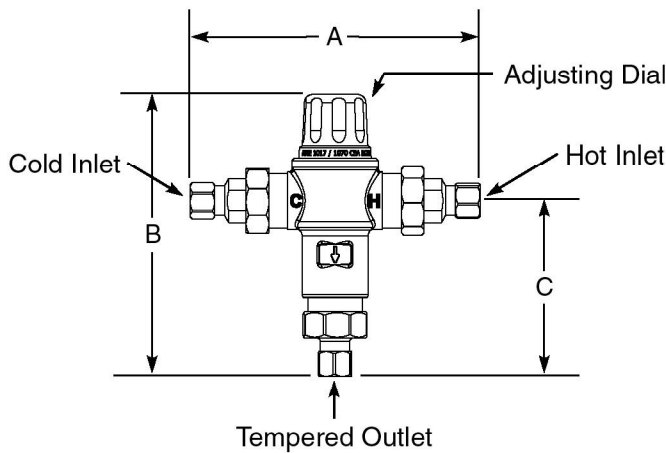
## Operation and Maintenance

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 [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.



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



# 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.

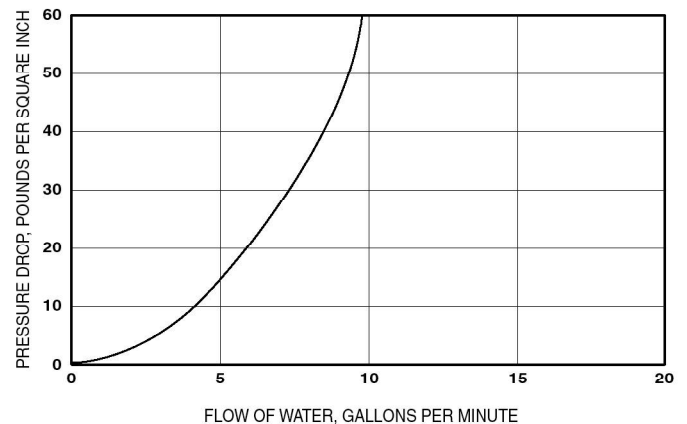
Engineer Approval ☐**MANUFACTURING CO., INC.**

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.





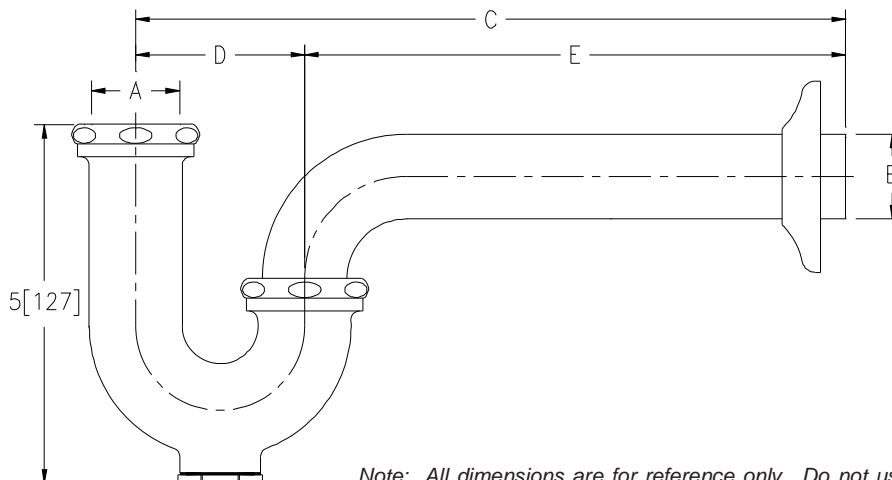
# SEMI-CAST P-TRAPS WITH WALL BEND

## 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
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#### 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 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.hawsco.com](http://www.hawsco.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.





**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:**

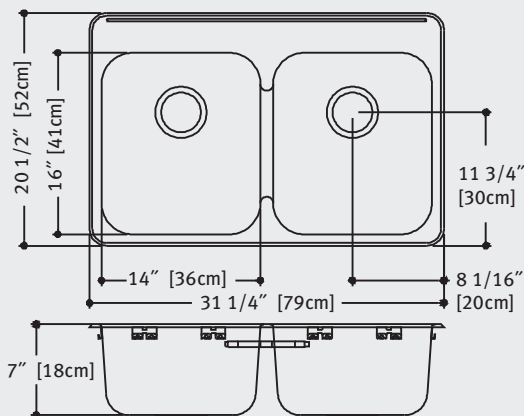
- ☐ LBD6407-1/1 1 hole, 1 1/2" diameter
- ☒ LBD6407-1/3 3 hole, 1 1/2" diameter, 4" centers, 8" centerset
- ☐ LBD6407-1/4 4 hole, as 3 hole above, plus 1 hole 4" to the right
- ☐ LBD6407-1 Custom (non-returnable)

**\*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 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 Handle
- Ceramic 1/4 Turn Operating Cartridge
- 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

**NOTE:** This fitting is not intended to be sold in California after January 1, 2016

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



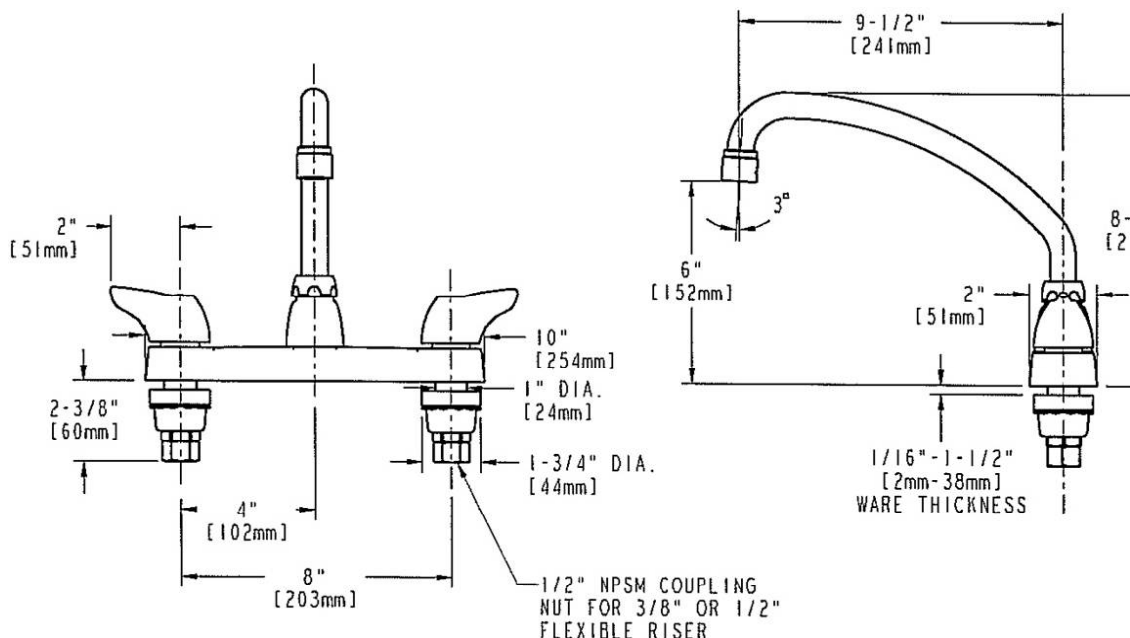
# 1100-L9VPAXKABCP

## Manual 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. 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).

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.



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



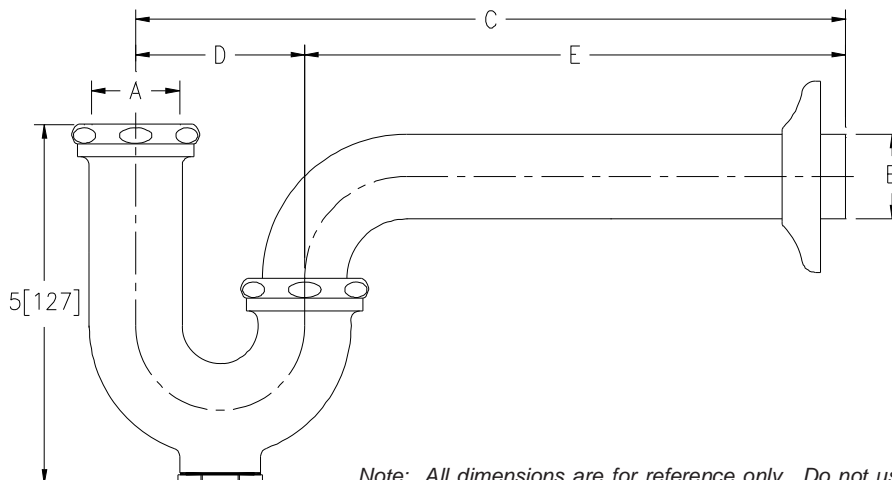
# SEMI-CAST P-TRAPS WITH WALL BEND

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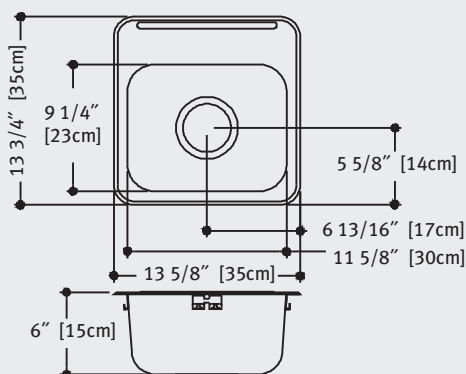
\* COMES WITH OPTIONAL 1-1/2" x 1-1/4" REDUCTION POLY-WASHER FOR INLET

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Phone: 1-800-997-3876 ♦ Fax: 1-919-775-3541 ♦ www.zurn.com

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cUPC®

**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: \_\_\_\_\_

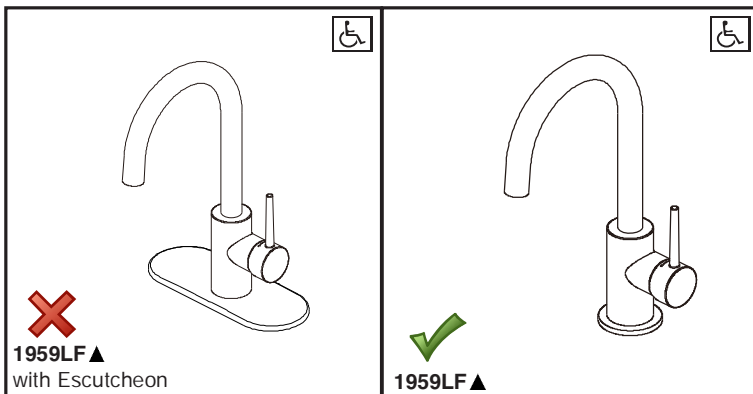
Notes: \_\_\_\_\_

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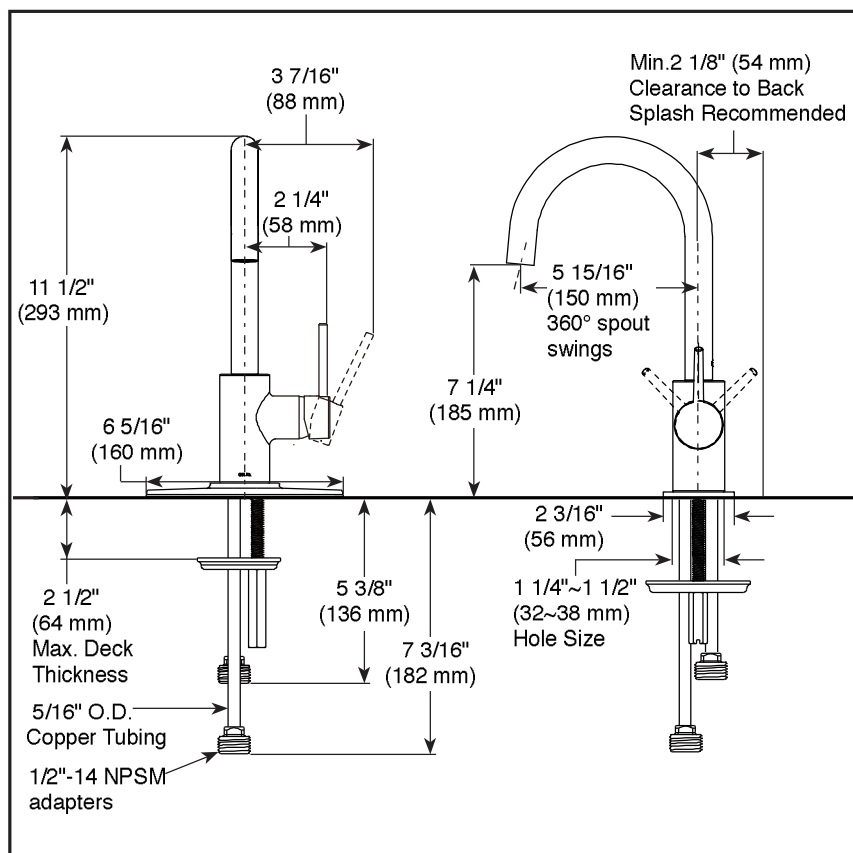


## BAR & PREP SINK FAUCETS

- Contemporary
- Single Handle Deck Mount
- 1 or 3 Hole 4" Installation

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

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



▲ Designate proper finish suffix

### STANDARD SPECIFICATIONS:

- Solid brass fabricated body.
- 360° Rotating spout.
- Hot/Cold logo on handle to indicate temperature.
- Ceramic disc carriage.
- 2 1/2" max deck thickness.
- 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.
- Maximum flow rate 1.5 gpm @ 60 psi.

### WARRANTY

- Lifetime limited warranty on parts (other than electronic parts and batteries) and finishes; or, for commercial users, for 5 years from the date of purchase.

### COMPLIES WITH

- ASME A12.18.1 / CSA B125.1

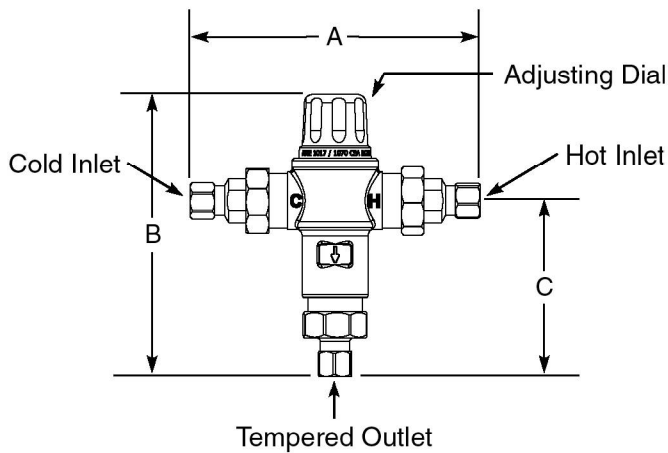


Indicates compliance to  
ICC/ANSI A117.1

Verified compliant with 0.25% weighted average Pb content regulations

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.





# 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 & 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 ☐



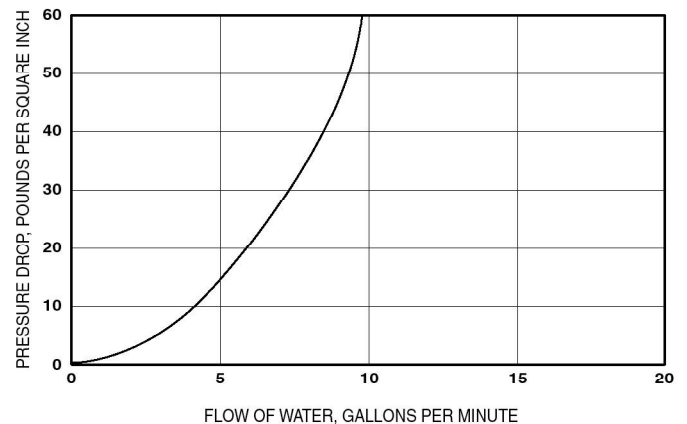
**MANUFACTURING CO., INC.**

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.



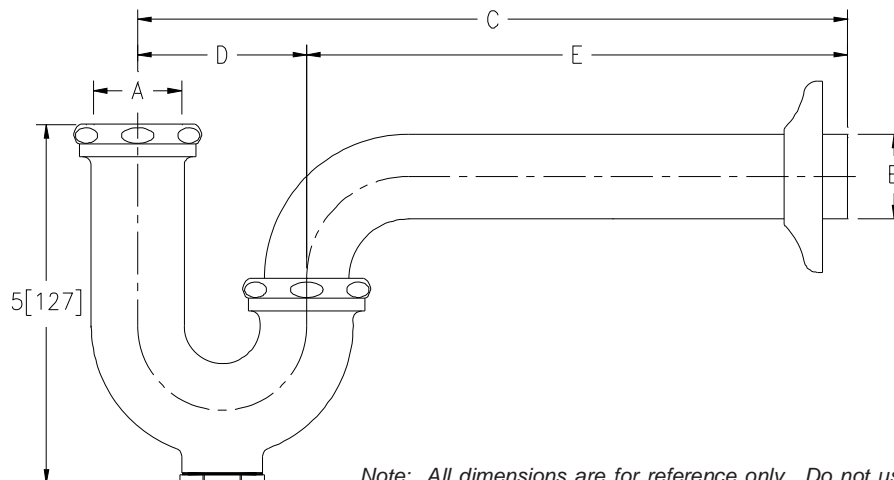
# SEMI-CAST P-TRAPS WITH WALL BEND

## 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]		
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#### 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
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-15	15[381] C Dim. 1 1/4[32] and 1 1/2[38] Only
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\* 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

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# MOLDED-STONE® MOP SERVICE BASIN



**MSB 2424** ✓  
**MSB 3624**

## Molded-Stone® Mop Service Basin

### FEATURES



#### MSB 2424

The MSB 2424 shall have overall outside dimensions of 24" x 24" x 10". The molding shall be done in matched metal dies under heat and pressure resulting in a one-piece homogeneous product. The unit shall have 10" high walls with not less than 1" wide.

The stainless steel drain body is designed to provide for a caulk connection or QDC-3 joint to a 3" drain pipe. A combination dome strainer and lint basket made from stainless steel shall be included with factory installed stainless steel drain body for caulked joint to accept a 3" pipe.



#### MSB 3624

The MSB 3624 shall have overall outside dimensions of 36" x 24" x 10". The molding shall be done in matched metal dies under heat and pressure resulting in a one-piece homogeneous product. The unit shall have 10" high walls with not less than 1" wide shoulders and an integrally molded shelf 10 5/8" wide where indicated.

The stainless steel drain body is designed to provide for a caulk connection or QDC-3 joint to a 3" drain pipe. A combination dome strainer and lint basket made from stainless steel shall be included with factory installed stainless steel drain body for caulked joint to accept a 3" pipe.

### NOTES

### OPTIONS

- ✓ Service Faucet (830-AA): Chrome plated with vacuum breaker, integral stops, adjustable wall brace, pail hook and 3/4" hose thread on spout.
- ✓ Hose and Hose Bracket (832-AA)
  - Mop Hanger (889-CC)
  - Alternate Strainer (1453-BB) - For residential use (EFS-3624 and EFS-2424)
  - 3" Quick Drain Connector (QDC-3XH): Neoprene connecting gasket suitable for attaching extra heavy cast iron soil pipe and Schedule 40 steel pipe to the drain body. Neoprene connecting gasket (QDC-3SN) suitable for attaching hubless cast iron pipe (no hub, nominal O.D. of 3.31") and service weight cast iron soil pipe (nominal O.D. of 3.38") to the drain body.
  - Silicone Sealant (833-AA)
  - Vinyl Bumperguard (E-77-AA)
  - Stainless Steel Bumperguard (E-88-AA) ✓
  - Stainless Steel Wall Guard (MSG2424, MSG2828, MG3232, MSG3636, and MSG3624) ✓

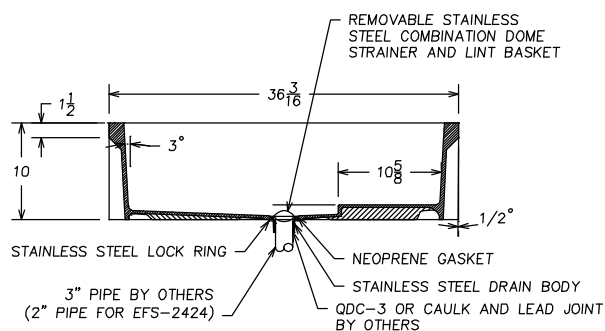
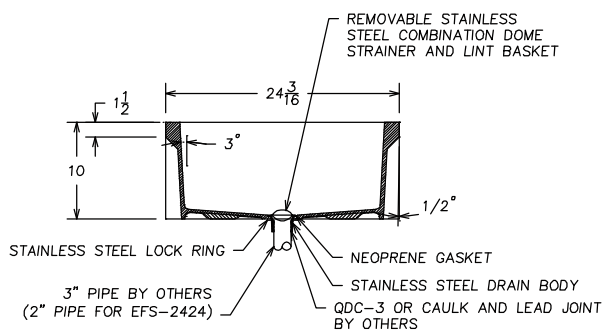
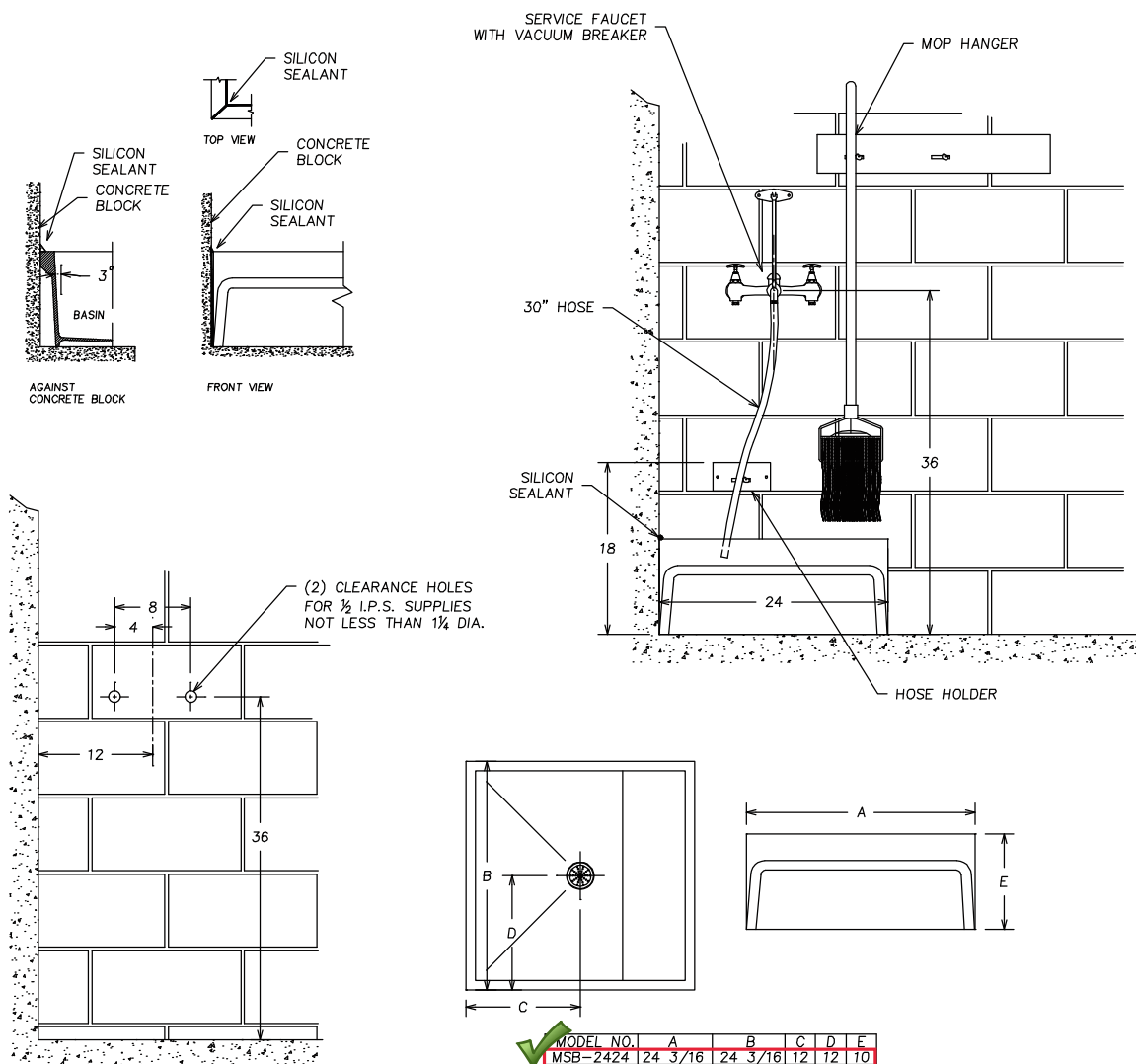


**FIAT PRODUCTS®**  
ACRANE PLUMBING COMPANY

# MOLDED-STONE® MOP SERVICE BASIN

## MSB 2424 ✓ MSB 3624

Molded-Stone® Mop Service Basin

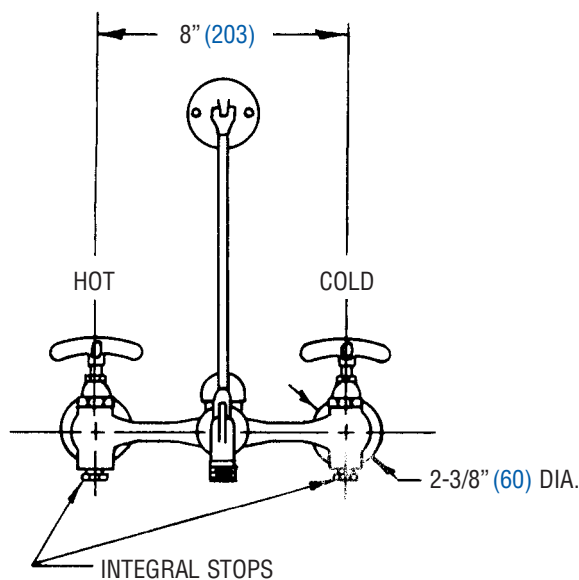
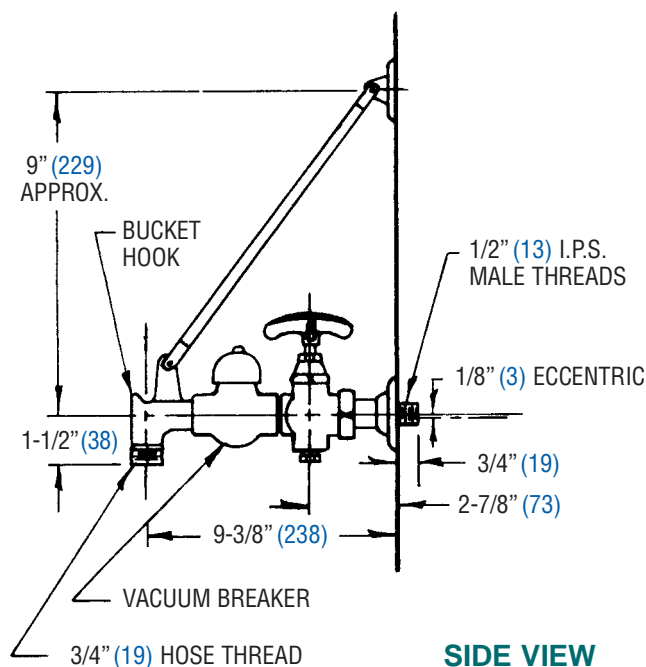


**FIAT PRODUCTS**  
A CRANE PLUMBING COMPANY

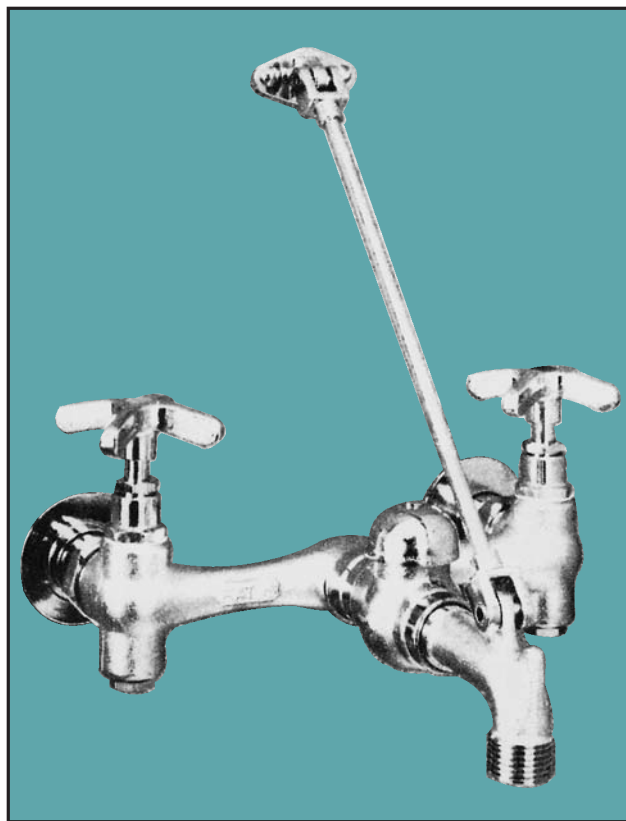
**IMPORTANT:** Roughing-in dimensions may vary 1/2" and are subject to change or cancellation without prior notice.

CR/PL© 04/03 Printed in U.S.A

# 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

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e-mail: [info@fiat.ca](mailto:info@fiat.ca) • website: [www.fiat.ca](http://www.fiat.ca)

A subsidiary of CR/PL, L.L.C. Company - Evanston, IL



# H OSE AND HOSE BRACKET

832-AA



## FEATURES

- GENERAL:** Long flexible, heavy duty  $\frac{5}{8}$ " rubber hose (30"). Cloth reinforced with  $\frac{3}{4}$ " brass coupling at one end. Bracket is 5" long x 3" wide, stainless steel with rubber grip. Hose and Hose Bracket are used with the 36" x 24" x 10" Molded-Stone Mop Service Basin with Shelf (MSB-3624) and the 24" x 24" x 10" Molded-Stone Mop Services Basin less Shelf (MSB-2424).

## NOTES

## OPTIONS



**FIAT PRODUCTS**  
ACRANE PLUMBING COMPANY



## FEATURES

- GENERAL:**  
 Model No. 889-CC is 24" long x 3" wide, stainless steel with three (3) rubber tool grips. This is used with the 36" x 24" x 10" Molded-Stone Mop Service Basin with Shelf (MSB-3624) and the 24" x 24" x 10" Molded-Stone Mop Services Basin less Shelf (MSB-2424).

## NOTES

## OPTIONS



**FIAT PRODUCTS**  
 A CRANE PLUMBING COMPANY

# S TAINLESS STEEL WALL GUARDS

✓ MSG2424 , MSG2828  
MSG3232 , MSG3636  
MSG3624



## FEATURES

- **GENERAL:** Model No.s MSG2424, MSG2828, MSG3232, MSG3636 and MSG3624 are used with the 36" x 24" x 10" Molded-Stone Mop Service Basin with Shelf (MSB-3624) and the 24" x 24" x 10" Molded-Stone Mop Services Basin less Shelf (MSB-2424). ✓

## NOTES

## OPTIONS



**FIAT PRODUCTS**  
ACRANE PLUMBING COMP ANY

MOP SERVICE BASINS

RECOMMENDED UPGRADES AND PARTS	
TERRAZZO KIT	Terrazzo repair kit – repair small cracks and nicks with this complete repair kit
832AA000	Hose/bracket combination – 30" (762 mm) long, flexible, heavy-duty 5/8" (16 mm) cloth reinforced, rubber hose with 3/4" (19 mm) chrome coupling, and 6" x 3" (152 mm x 76 mm) stainless steel bracket with rubber grip
889CC000	Mop hanger bracket – constructed of 22 gauge #304 stainless steel
830AA000	Service faucet – chrome plated, with vacuum breaker, integral stops, adjustable wall brace, pail hook and 3/4" (19 mm) hose thread on spout, 8" (203 mm) centerset, 6.6 gpm, 80 psi
833AA000	Silicone sealant – one (1) recommended for installation
QDC32000	Quick Drain Connector – 3" (76 mm) with 2" (51 mm) hole, EFS basins
1453BB000	Strainer plate – flat type constructed of 18 gauge #304 stainless steel
STR1000	MSB two-piece strainer basket – dome style – for model MSB2424 and MSB3624
E77AA24000	Bumper guard – two (2) 24" (610 mm) extruded vinyl construction
E88AA24000	Bumper guard – two (2) 24" (610 mm) stainless steel construction
E77AA36000	Bumper guard – one (1) 36" (914 mm) and one (1) 24" (610 mm) constructed of extruded vinyl
E88AA36000	Bumper guard – one (1) 36" (914 mm) and one (1) 24" (610 mm) constructed of stainless steel
1239BB24000	Bumper guard –18" (457 mm) constructed of aluminum with vinyl insert
1239BB32000	Bumper guard – 26" (660 mm) constructed of aluminum with vinyl insert
1239BB36000	Bumper guard – 30" (762 mm) constructed of aluminum with vinyl insert
38640020000	Wall guard – screw bag – For MSG Series
MSG2424000	Wall guard – two (2) 24" x 12" (610 mm x 305 mm) stainless steel panels plus corner bracket
MSG24000	Wall guard – one (1) extra 24" x 12" (610 mm x 305 mm) stainless steel panel
MSG2828000	Wall guard – two (2) 28" x 12" (711 mm x 305 mm) stainless steel panels plus corner bracket
MSG28000	Wall guard – one (1) extra 28" x 12" (711 mm x 305 mm) stainless steel panel
MSG3232000	Wall guard – two (2) 32" x 12" (813 mm x 305 mm) stainless steel panels plus corner bracket
MSG32000	Wall guard – one (1) extra 32" x 12" (813 mm x 305 mm) stainless steel panel
MSG3636000	Wall guard – two (2) 36" x 12" (914 mm x 305 mm) stainless steel panels plus corner bracket
MSG36000	Wall guard – one (1) extra 36" x 12" (914 mm x 305 mm) stainless steel panel
MSG3624000	Wall guard – one (1) 36" x 12" (914 mm x 305 mm) and one (1) 24" x 12" (610 mm x 305 mm) stainless steel panel plus corner bracket
MSGBRKT000	Corner bracket – one (1) extra corner bracket
STRID2000	Flat stainless steel strainer for the MSBID only

For a complete list of FIAT accessories, please visit our website at [www.FIATPRODUCTS.com](http://www.FIATPRODUCTS.com) or call 1-800-442-1902.

MOP SERVICE BASINS

QIC & QDC QUICK CONNECT GASKET APPLICATIONS						
GASKET		FIAT® PRODUCT APPLICATION	HEIGHT	O.D.	I.D.	FOR USE WITH
	QIC2000	ADAF Gelcoat and Cascade™	1.000	3.050	2.270	2.375 O.D. Pipe
	QIC2CP000	ADAF Gelcoat and Cascade	1.175	3.080	2.000	2.125 O.D. Copper Pipe
	QIC3XH000	Molded-Stone® Mop Basin – MSBID2424 – only	1.240	4.180	3.520	3.5 O.D. Pipe
	QDC2000	Replacement for Steel Drain Cascade Floor (Rare – 10-year old floors )	1.150	3.050	2.275	2.375 O.D. Pipe
	QDC2CP000	Replacement for Steel Drain Cascade Floor (Rare – 10-year old floors)	1.300	3.100	2.025	2.125 O.D. Copper Pipe
	QDC4000	T	1.000	2.950	2.350	2.375 O.D. Pipe
	QDC3XH000	Terrazzo Mop Service Basins and Molded-Stone Mop Basins (MSB Standard)	1.240	4.480	3.400	3.5 O.D. Pipe
	QDC3SN000	Terrazzo Mop Service Basins and Molded-Stone Mop Basins	1.250	4.400	3.200	3.5 O.D. Pipe
	QDC32000	Terrazzo Mop Service Basins and Molded-Stone Mop Basins (EFS Basins )	1.350	4.400	2.250	2.375 O.D. Pipe
	QIC32000	Molded-Stone Mop Basin – MSBID2424 – only	1.240	4.100	2.220	2" PVC Pipe
	QIC3SN000	Molded-Stone Mop Basin – MSBID2424 – only	1.240	4.100	2.220	3" Soil Pipe

For a complete list of FIAT accessories, please visit our website at [www.FIATPRODUCTS.com](http://www.FIATPRODUCTS.com) or call 1-800-442-1902.



# Washdown & Sill Fittings 535-NF

## Product Type

## Features & Specifications

- 
- Hose reel spray valve, 2.5 GPM
- Vandal Proof 3" Cross handle (pair)
- Slow compression operating cartridge, left-hand
- Quatern™ compression operating cartridge, left-hand
- Slow compression cartridge, integral check
- 


## Performance Specification

- 
- 

## Warranty

- 
- Lifetime Limited Faucet Warranty
- 

## Codes & Standards

-  ASME A112.18.1/CSA B125.1

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

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

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

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

Architect \_\_\_\_\_

Engineer \_\_\_\_\_

Contractor \_\_\_\_\_

☐ Submitted as Shown

☐ Submitted with Variations

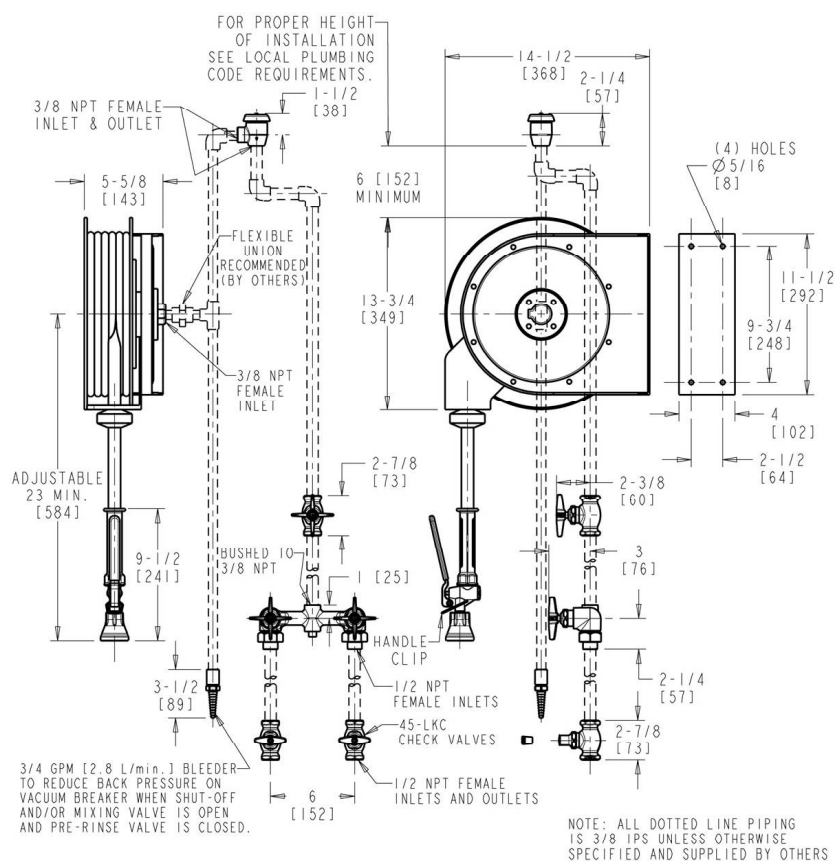
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HOSE REEL ASSMBY W/35" RETRACTABLE HOSE/EXP.VALVE 

## Architect/Engineer Specification

Chicago Faucets No. 535-NF, Hose Reel Assembly with hot and cold water fitting, wall-mounted with 6" centers. Spray valve 2.5 GPM @ 60 PSI. 3" metal cross handles with eight-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" NPT female thread inlets.



## 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 [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.







# Commercial Electric Water Heaters

## 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 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.



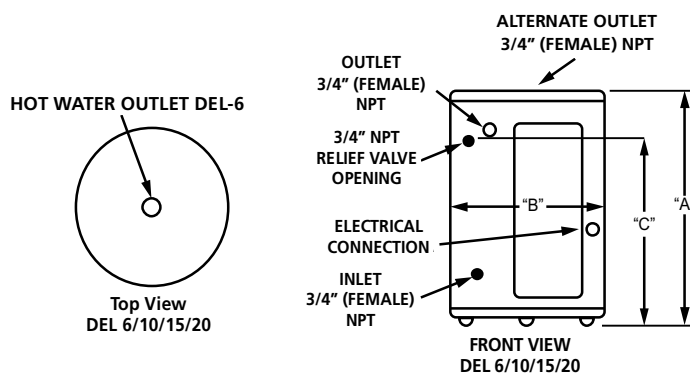
Water heater **WH-1**: Water heater shall be 208v/1, 4.5kW (non-simultaneous) per mechanical







# Commercial Electric Water Heaters

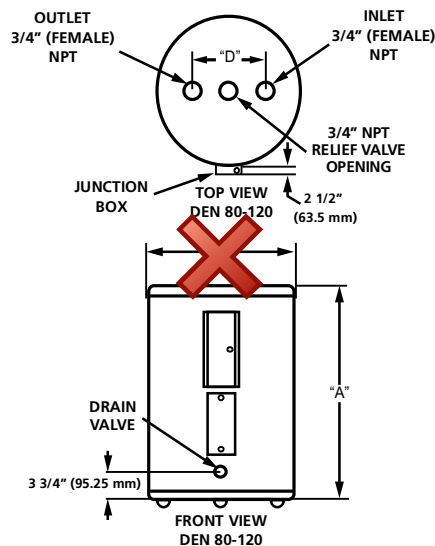
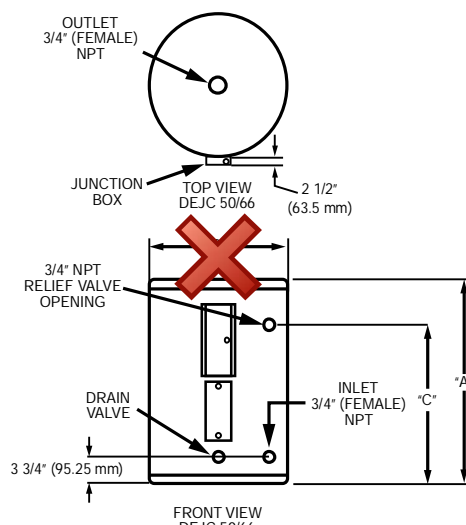
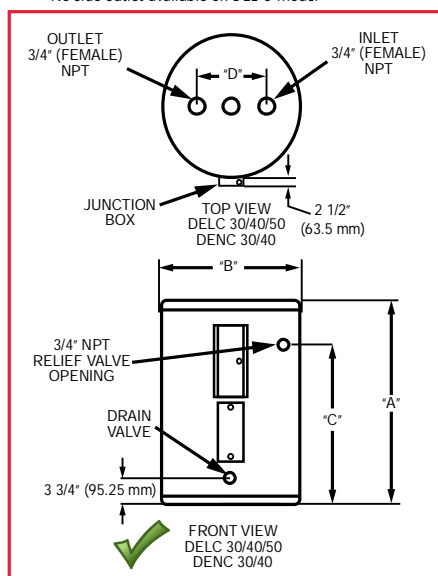


## ROUGH-IN DIMENSIONS

\*(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

TM

**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.

**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

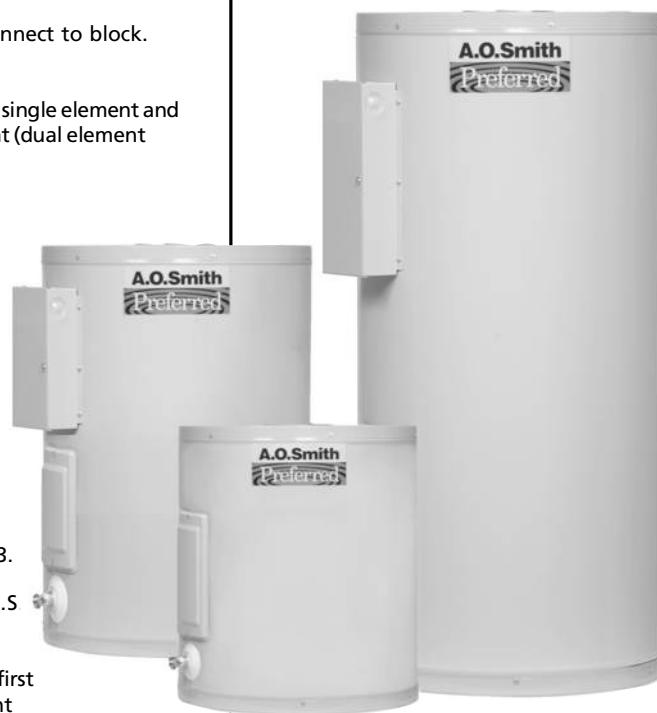
NOTE: DEL-6 not available in above 2.5 KW.

DEL-6 not available in 480V.

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

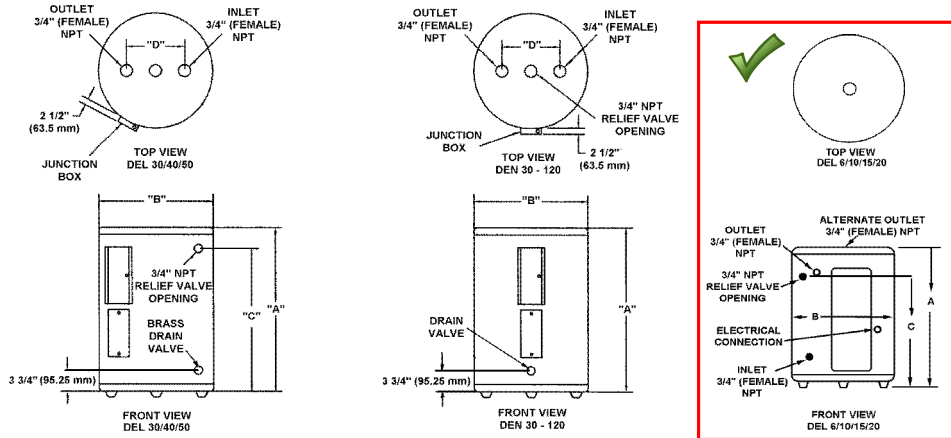
\*\* A6 non-simultaneous circuit only.

## DEN/DEL MODELS



TM

## 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°		
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	2.0	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		
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		
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 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

✓ T-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							

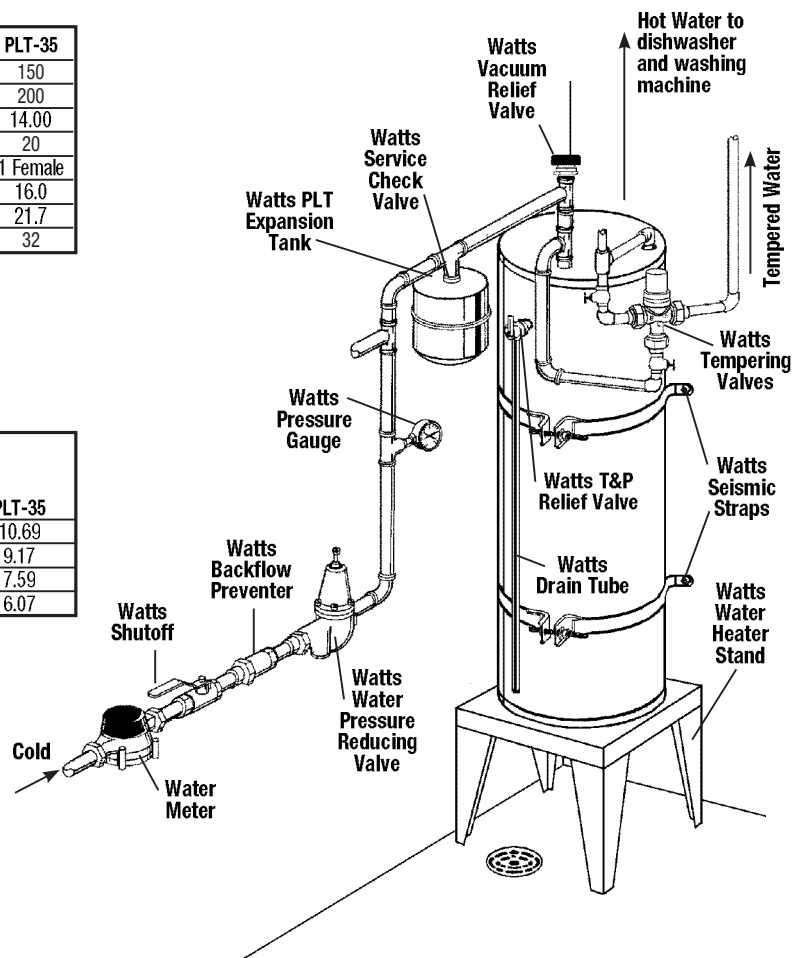
	PLT-5		PLT-20
	PLT-12		PLT-35
	Multiple tanks required - consult factory		

## 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)	Water Side Volume at 150psi (gallons)			
	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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CERTIFIED

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Canada: Burlington, ONT. (905) 332-4090 • Fax: (905) 332-7068 • [www.wattscanada.ca](http://www.wattscanada.ca)



## 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							

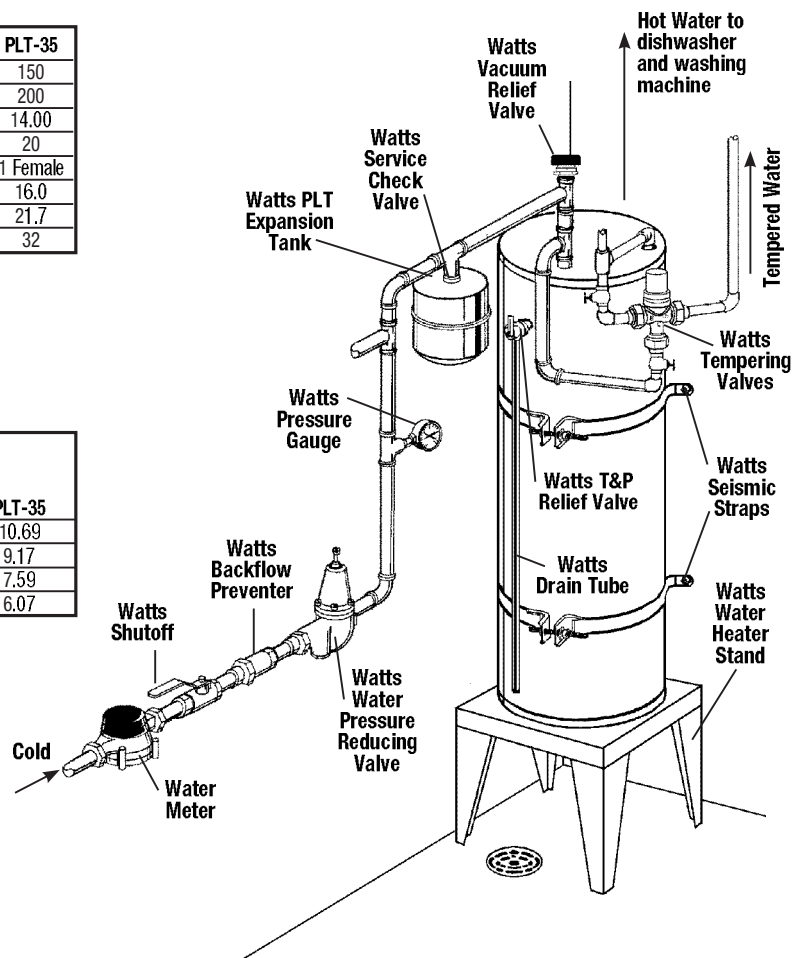
	PLT-5		PLT-20
	PLT-12		PLT-35
	Multiple tanks required - consult factory		

## 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



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Canada: Burlington, ONT. (905) 332-4090 • Fax: (905) 332-7068 • [www.wattscanada.ca](http://www.wattscanada.ca)



SUBMITTAL

A-123B

JOB:

REPRESENTATIVE:

UNIT TAG:

ORDER NO.

DATE:

ENGINEER:

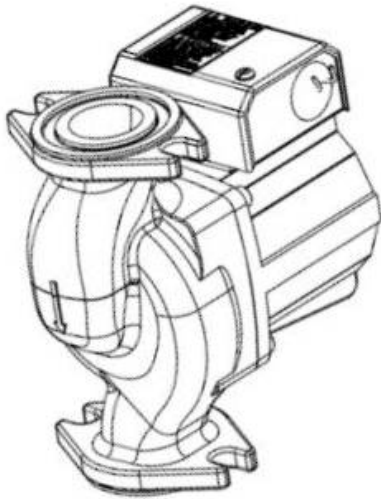
SUBMITTED BY:

DATE:

CONTRACTOR:

APPROVED BY:

DATE:



## Series LR Iron & Lead-Free<sup>\*</sup> Bronze Booster Pumps

Where potable water is pumped,  
use a bronze Series LR circulator.



### DESCRIPTION

The Series LR is a flanged in-line system lubricated circulating pump designed specifically for quiet operation in closed loop systems. The Series LR is available in cast iron body construction for hydronic heating systems or lead-free \* bronze body construction for potable water applications.

### CONSTRUCTION

Pump Body  
LR-20WR: Cast Iron  
LR-15BWR: Bronze  
Impeller: Noryl®  
Shaft: Ceramic  
Bearings: Carbon

### OPERATING DATA

Maximum working pressure: 150 psig (10 bar)

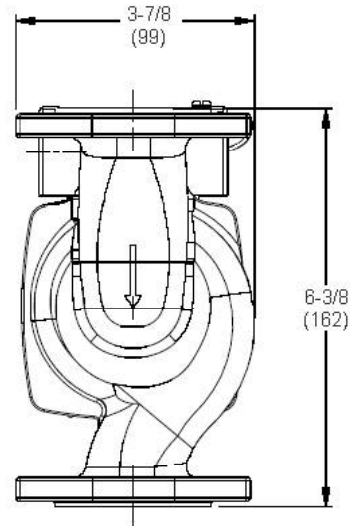
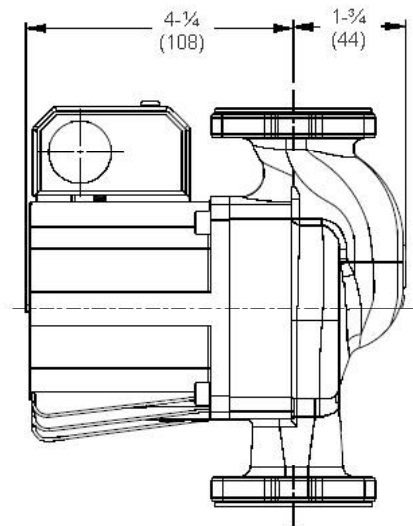
Maximum operating temperature: 225°F (107°C)

Model Number	Part Number	Pump Body Material	Flange Sizes Inches-NPT	Standard 60 Cycle Motor Characteristics				Tagging	Quantity
				Watts	Voltage	F.L. Amps	RPM		
LR-20WR	106507	Cast Iron	3/4, 1, 1-1/4, 1-1/2	125	115	1.1	2950		
LR-15BWR	106514LF	Bronze	3/4, 1, 1-1/4, 1-1/2	125	115	1.1	2950		

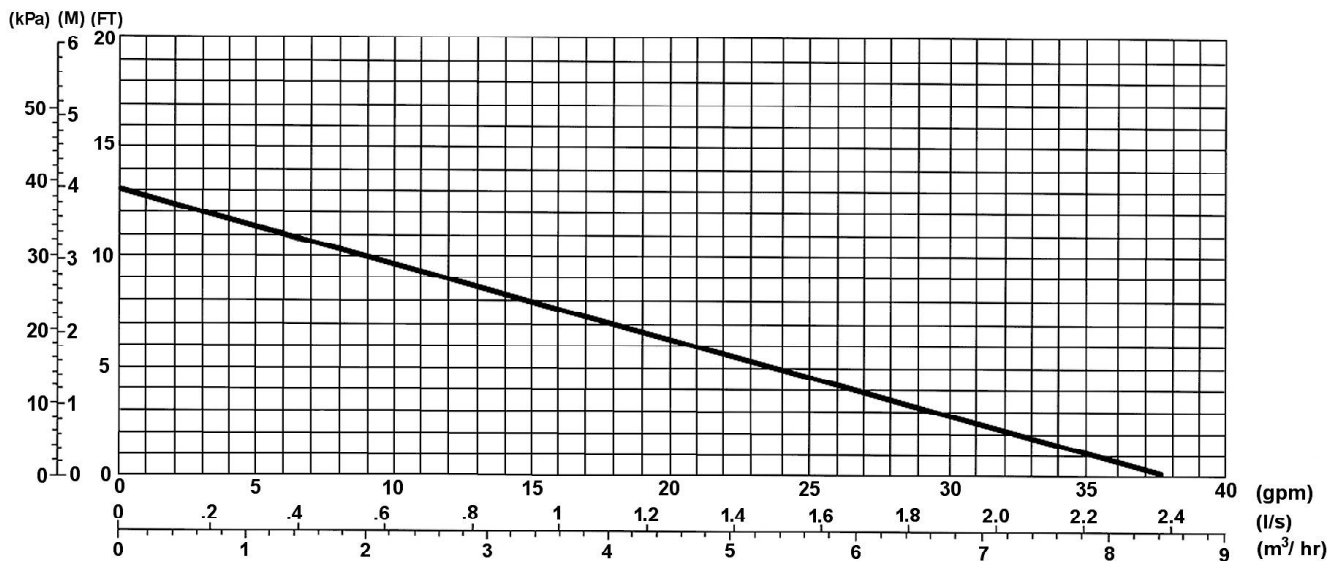
\* Contains less than 0.25% lead content on wetted surfaces.

## Series LR System Lubricated Circulators

A-123B



## PUMP PERFORMANCE CURVE



## TYPICAL SPECIFICATIONS

The contractor shall furnish and install in-line circulating pumps as illustrated on the plans and in accordance with the following specifications:

1. The pump shall be of the horizontal system lubricated type specifically designed and guaranteed for quiet operation.
2. Pump to be suitable for 225° F (107° C) operation at 150 PSIG (10 Bar) working pressure.
3. The pumps shall have a ceramic shaft supported by carbon bearings. Bearings are to be lubricated by the circulating fluid.

4. Motor stator to be isolated from circulating fluid through use of stainless steel can. Rotor to be sheathed in stainless steel.

5. Motors shall be non-overloading at any point on the pump curve. Motors to have built-in impedance protection.
6. The pump manufacturer shall be ISO-9001 certified.

Pumps to have a capacity of \_\_\_\_\_ GPM at \_\_\_\_\_ foot head when powered by 115 volt, 60 cycle, single phase electrical supply.

All pumps are to, ITT Industries-Bell & Gossett Model LR-\_\_\_\_\_.