

Quality People. Building Solutions.

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

Date: 4/1/2023

Return Request: 4/10/2023

Project: New Dormitories – Bldg. 6 Supplier: Little Rock Winnelson

Manufacturer: Various

Submittal: Commercial Lavatories **Submittal Number: 22 42 16.13-01**

Drawing # and Installation: Plumbing Drawings

ARCHITECT

Stocks Mann Architects 401 W. Capitol, Suite 402 Little Rock, AR 72201 501-370-9207

GENERAL CONTRACTOR

Alessi Keyes Construction 10623 Maumelle Blvd. N. Little Rock, AR 72113 501-225-6699

Notes:

*Per PR-02

ENGINEER

Bernhard TME 1 Allied Drive #2600, Building 2 Little Rock, AR 72202 501-666-6776

MECHANICAL SUBCONTRACTOR

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

CSUSA PROJECT	NO.
22-102	

jon@comfortar.com

ALESSI KEYES CONSTRUCTION
REVIEWED FOR GENERAL COMPLIANCE
WITH CONTRACT DOCUMENTS Charley Dawson 4/10/2023



L-1 LAVATORY



Ligature Resistant Corterra™ Corner Basin ADA Compliant

Model WH3776



Patented D840,523

WH3776L-WH3374L

INSTALLATION, OPERATIONS AND MAINTENANCE MANUAL

6900-206-001 March 28, 2023 н





Important: Some options may slightly alter installation. To ensure proper installation review the Manual thoroughly and verify rough-ins before beginning any work. File this Manual with the owner or maintenance personnel upon completion of installation.

Industry standard wall backing, for wall hung fixtures, is required. Installer provided wall anchors and wall anchoring hardware must be appropriate for wall construction.

ANSI, UFAS or ADA compliance is subject to the interpretation and requirements of the local code authority and is the responsibility of the installer for verification.

Single Temp Valve Assembly: Recommended working water pressure is 30 PSI (2.07 bars) minimum to 100 PSI (6.89 bars) maximum. Maximum temperature is 130°F (54.4°C). Maximum outlet temperature recommended is 105°F (40.6°C). Valve assembly must be drained prior to being subjected to freezing temperatures. A checkstop is provided with this valve assembly.

T/P Mixing Valve Assembly: Recommended working water pressure is 30 PSI (2.07 bars) minimum to 100 PSI (6.89 bars) maximum. Maximum hot water temperature is 180°F (82°C). Temperature adjustment range is 85°F-115°F (29°C-46°C). Minimum hot water supply temperature must be 5°F (3°C) above desired set temperature. Valve assembly must be drained prior to being subjected to freezing temperatures. The valve assembly has checks integral to the inlets however, angle stops are to be provided by the installer.

Prior to installation, supply lines must be flushed of all foreign material such as pipe dope, chips, or solder. Debris or foreign material in water supply may damage valve.

Teflon tape is recommended on threaded connections where applicable to reduce the possibility of leaks.

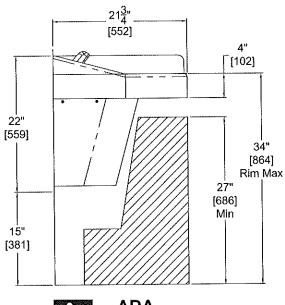
Provide 110-120 VAC/60Hz/3A (MAX) electrical receptacle for factory supplied 120VAC/9VDC, 100mAplug-in transformer.

NOTE: Receptacle(s) must be wired to a GFCI protected circuit. Fixture must be earth grounded per N.E.C. (National Electrical Code).

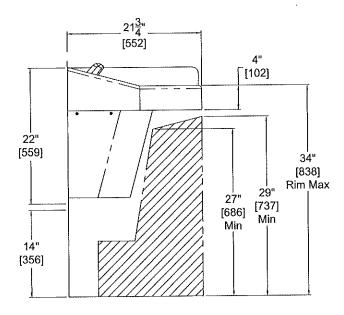
Upon receiving, verify count and inspect packaging for obvious signs of damage or missing containers. If there are any issues upon receiving make note on bill of lading and report to carrier and manufacturer promptly. Remove fixture assemblies from packaging and ensure all parts are present before beginning installation. Do not discard packaging until all parts have been accounted for. Refer to Acorn terms, conditions of sales and warranty for more information.



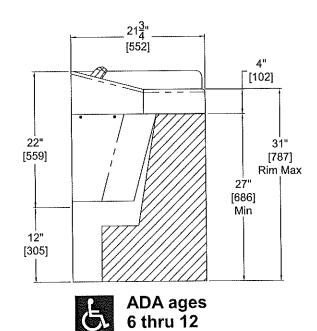
ACCESSIBILITY OVERVIEW

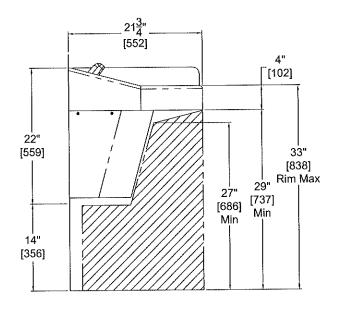






CBC (California Building Code)



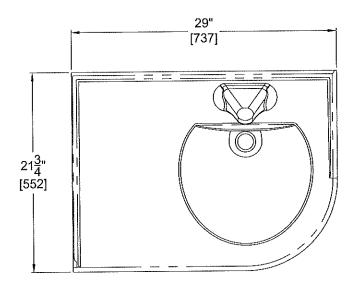


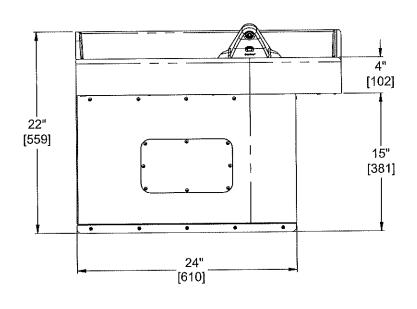
OBC (Ontario Building Code)

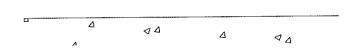


DIMENSIONAL DATA

(Left Corner Shown)









Instructions for Operation and Care of Best-Care WH3776

Required Items for Installation - Not Supplied

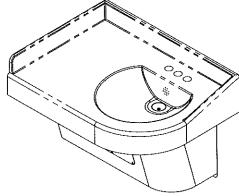
- ∠ Chalk Line
- ∠ Hammer

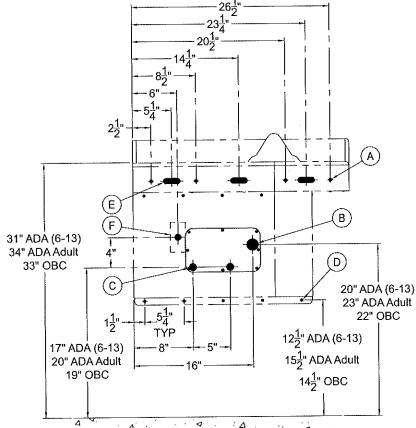
- Plumbers Putty
- Fixture Wall Anchors and Anchoring Hardware (and Appropriate Tools) - For 3/8" (9 Places) & 1/4" Punching (3 Places)
- Ø Driver For 1/4" Shank Bit For Center Reject Bit
- 1/4" Slotted Tip Screwdriver For Metering Adjustment

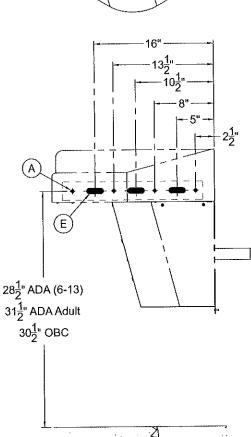
ROUGH-IN DIMENSIONS

(Left Corner)

NOTE: Fixture Weight is approx. 170 lbs.
For Compatible In-Wall Support Carriers refer to J.R. Smith Model # 0816-M31







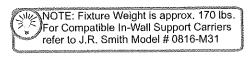
- (8) 7/16" Diameter Mountings Holes provided. Fasteners and Wall Anchors are provided by others. Installer is to use Industry Standards of Best Practice to suit wall type and construction, weight of fixture and application.
- (B) 1-1/2" O.D. Tube Lavy Waste Outlet For Compression Joint.
- (C) 1/2" NPS Hot & Cold Angle Stops (By Others).

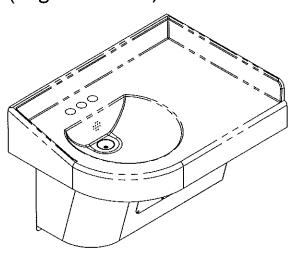
- D (5) Ø1/4" Mounting holes.
- (6) Ø3/4" x 2-1/4" Slots for optional 5/8" x 6" Long UNC Carrier Support Studs.
- For Optional Electronic Faucet Provide 120VAC, 60HZ, 3A (MAX) GFCI Protected, Electrical Receptacle.

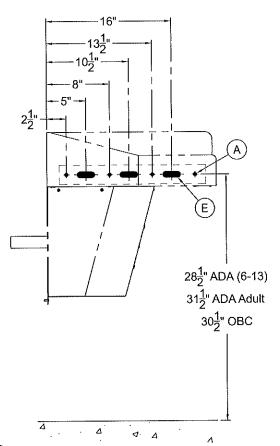


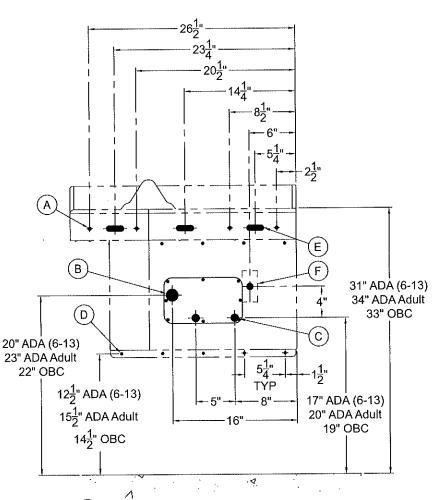
ROUGH-IN DIMENSIONS

(Right Corner)









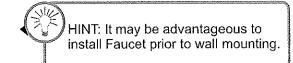
- (8) 7/16" Diameter Mountings Holes provided. Fasteners and Wall Anchors are provided by others. Installer is to use Industry Standards of Best Practice to suit wall type and construction, weight of fixture and application.
- (B) 1-1/2" O.D. Tube Lavy Waste Outlet For Compression Joint.
- (C) 1/2" NPS Hot & Cold Angle Stops (By Others).

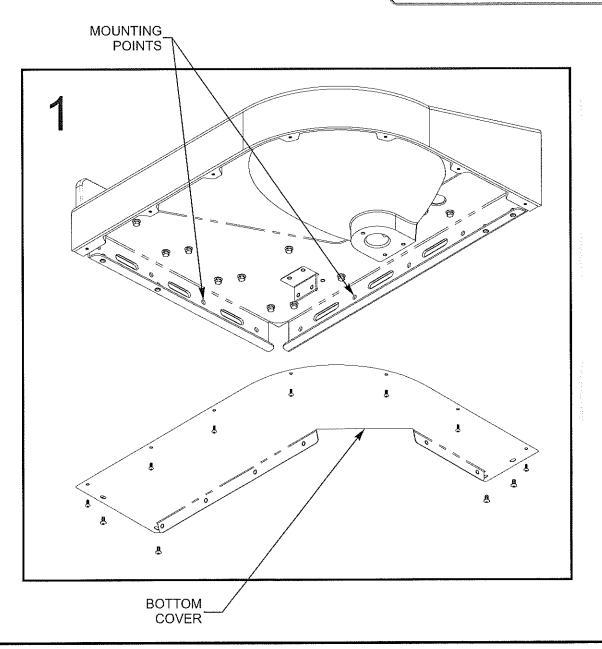
- D (5) Ø1/4" Mounting holes.
- (6) Ø3/4" x 2-1/4" Slots for optional 5/8" x 6" Long UNC Carrier Support Studs.
- For Optional Electronic Faucet Provide 120VAC, 60HZ, 3A (MAX) GFCI Protected, Electrical Receptacle.



FIXTURE ANCHORING

Disassemble Bottom Cover from Deck Assembly by removing #10-32 x 1/2" (Qty. 7) and 1/4-20 x 1/2" (Qty. 4) Hex Button Head Center Reject Screw. Locate and anchor the basin to the finished wall using mounting hardware by others, refer to dimensional data for rough-in information. Assemble waste assembly and make appropriate connections. Test for leaks for usage.



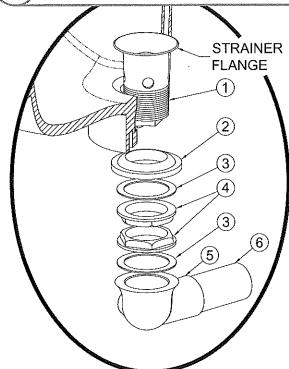




WASTE ASSEMBLY



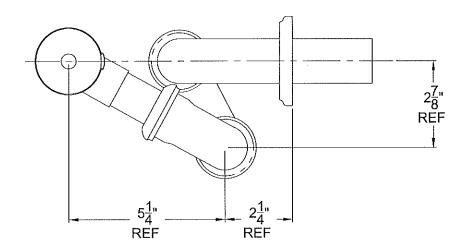
HINT: Teflon tape is recommended on all Threaded Waste and Supply Connections.



- 2 Install Strainer to Basin using plumbers putty on underside of grid strainer flange. From beneath Basin, assemble Gasket, Washer and Jam Nut as shown to Strainer and tighten securely. Add Close Elbow to Strainer Assembly as indicated.
- ① Strainer w/ 1-1/2"-16 UNE Threads
- ② Rubber Gasket
- ③ Flat Fiber Washer
- 4 1-1/2" -16 UNI Rough Chrome Brass Jam Nut
- ⑤ 1-1/2"-16 x 1-1/4" UNI Close Ell with 3/8" NPT Clean-Out Plug
- Waste Outlet Connection



NOTE: Waste Assembly may require field cutting and fitting by the installer.



3 Assemble waste piping using teflon tape on all threaded connections and make up waste connections to 1-1/2" P-trap.

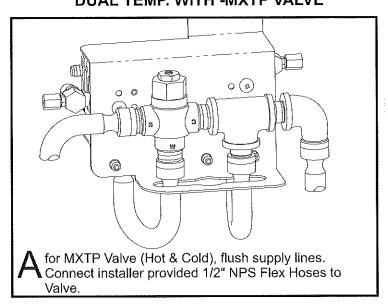


VALVE INSTALLATION

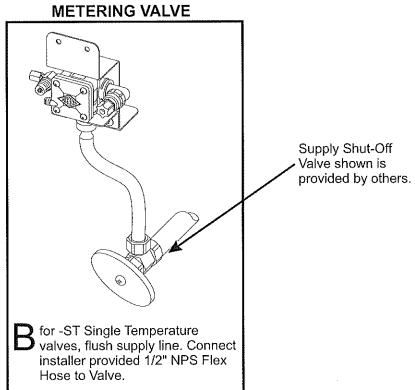
DUAL TEMP. WITH -MXTP VALVE



Before making up the supply connections, the supply lines must be flushed of all foreign material such as pipe dope, pipe chips, solder, sand, etc.



-03-M SINGLE TEMPERATURE





VALVE INSTALLATION & ADJUSTMENT

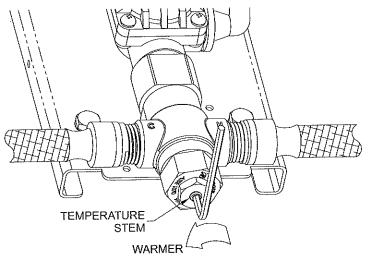
Valve Assembly Installation:

NOTE: Installation should be in accordance with accepted plumbing practices.

- Locate suitable place for mounting the Valve Assembly. Valve Assembly should be accessible for service and adjustment and as close to the point-of-use as possible. Wall Anchors and Anchoring Hardware are by others.
- 2) Connect hot and cold water to Supply Valve using 1/2" NPTE connections.
- Connect outlet of Tempering Valve to Spout(s) using 1/4" O.D. Tube connections provided.
- 4) Turn on hot and cold water supplies. If any leaks are observed, hand-tighten connections as necessary to stop leaks before proceeding.
- 5) Turn on fixture and allow water to flow for 2 minutes. Measure water temperature at outlet. If water is not at desired temperature, adjust as necessary.

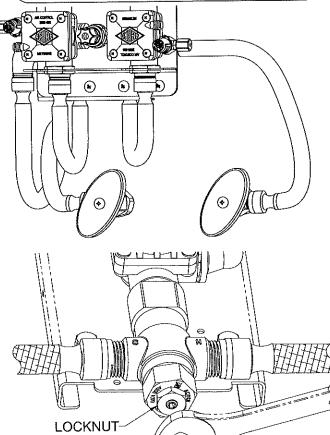


HINT: Angle Stops are recommended and is the responsibility of the installer.



!IMPORTANT

Flush supply lines of all foreign material such as pipe dope, pipe chips, solder, sand etc. before making up supply connections.



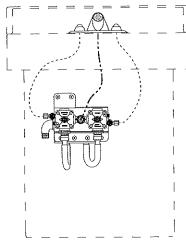
Temperature Adjustment:

NOTE: Factory set temperature is 105° F

- 1) Loosen Locknut.
- Turn on fixture and run water for at least 2 minutes. Allow supply temperature to stabilize.
- 3) Turn temperature stem counter-clockwise for hotter or clockwise for colder outlet temperature.
- 4) Tighten Locknut to prevent accidental or unauthorized temperature adjustment.
- 5) Re-check outlet temperature.

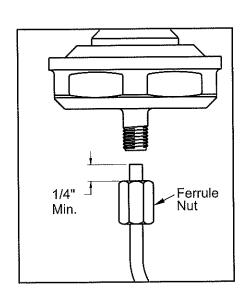


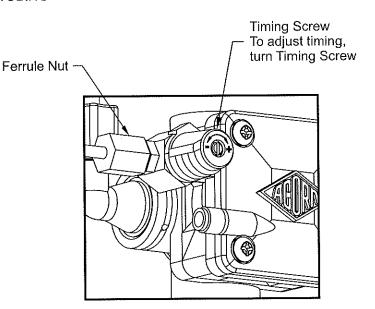
VALVE CONNECTIONS

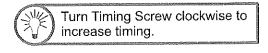


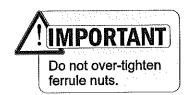
IMPORTANT.

Leave a minimum 1/4" of Polyethylene Tubing through the Ferrule Nut on the Pushbutton Assembly. This is necessary to ensure proper tubing connection.







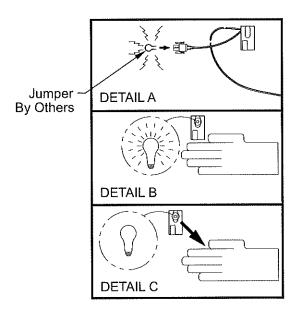




SENSOR OPERATION & CONNECTIONS

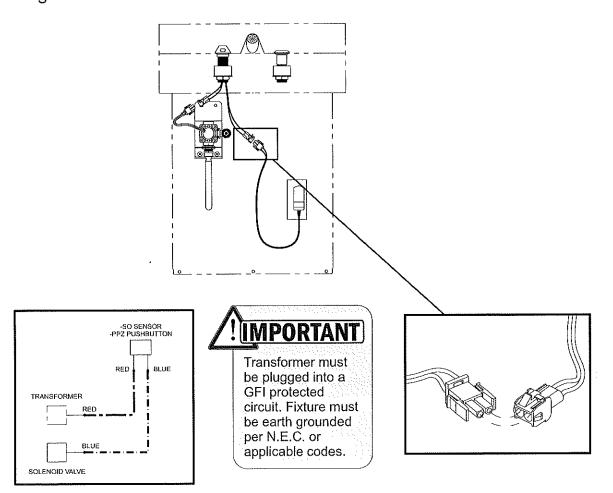
-SO Sensor Operation Range Adjustment

- Make sure Power Supply is disconnected from Sensor and make short circuit on red wires. See DETAIL A.
- 2. Connect Power Supply to Sensor. Red light should be flashing.
- 3. Move hand in front of sensor to distance of 2" to 4" within 5 seconds and wait until red light flashes quickly.
- 4. Move hand to desired sensing distance. See DETAIL B.
- Hold hand at desired sensing distance until red light stops flashing and Solenoid activates.
 See DETAIL C.



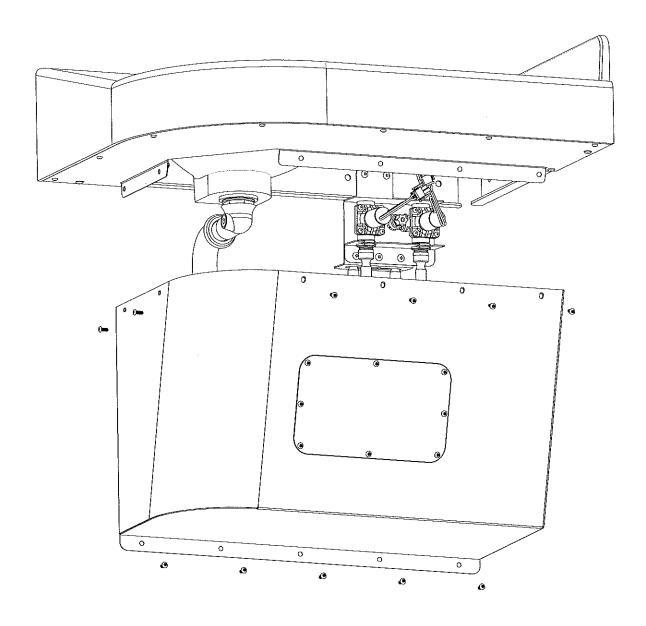
-SO Sensor Operation or

-PPZ Programmable Piezo Pushbutton





P-TRAP COVER INSTALLATION



Install P-Trap Cover using #10-32 UNF x 1/2" Center Reject Hex Head Screws provided. Secure bottom of P-Trap Cover to wall with Anchoring Hardware (by others).



TROUBLESHOOTING FOR OPTIONAL PUSHBUTTON OPERATED VALVES

Normal Valve Function: Pushbutton Operated Valve has an adjustable flow time from 5 to 60 seconds.

CONDITION: WATER DOES NOT FLOW



Probable Cause	Solution
Water main closed	Open water main
Checkstops closed	Open checkstops
Debris or scale in Checkstop Strainer	Remove Checkstop Strainer and clean
Air leaks from 1/8" O.D. Tubing or Fittings	Replace damaged Tubing or Fitting
Pushbutton Air Diaphragm leaks	Replace Pushbutton Air Diaphragm
Servomotor Diaphragm center hole is blocked	Remove blockage
Servomotor Upper Diaphragm is damaged	Replace Servomotor Upper Diaphragm
Low or no water pressure at supplies	Increase water pressure to 30 PSI minimum

CONDITION: WATER DRIPS, WON'T SHUT OFF



Probable Cause	Solution
Servomotor Diaphragm offset hole is blocked	Remove blockage
Servomotor Seat is damaged	Replace Servomotor seat
Servomotor Plate or Diaphragm is obstructed	Remove cause of obstruction
Servomotor Timer Assembly is damaged	Replace Servomotor Timer assembly

CONDITION: REDUCED WATER FLOW



Probable Cause	Solution
Valve Riser Tubing is crimped	Straighten Valve Riser Tubing
Debris or scale in Checkstop Strainer	Remove Checkstop Strainer and clean
Blockage in Valve Flow Control	Remove blockage
Low water pressure at supplies	Increase water pressure to 30 PSI minimum
Lime deposits in hot water pipes	Remove lime deposits with appropriate cleaning solution

CONDITION: PREMATURE WATER SHUT OFF





Probable Cause	Solution
Air leaks from 1/8" O.D. Tubing or Fittings	Replace damaged Tubing or Fitting
Pushbutton Air Diaphragm leaks	Replace Pushbutton Air Diaphragm



CARE, CLEANING, AND REPAIR OF CORTERRA SOLID SURFACE

Acorn's Corterra densified solid surface material is composed of recycled Solid Surface Polymer Resin, Aluminum Trihydrate and Fillers. It is resistant to stains, impact and burns and complies with ANSI Z124.3. It is attractive, durable and easy to maintain.

Routine Cleaning

Corterra should be kept clean at all times. If maintained, Corterra surfaces will retain their new, clean appearance indefinitely. Wash with a non-abrasive all purpose cleaner and water, then rinse. Wipe dry. (Never use cleaners with strong chemicals such as toilet bowl cleaners, rust removers, ceramic cook top cleaners, laquer thinners or oven cleaners). To remove persistent stains use a Scotch Brite pad and an abrasive cleaner or a solution of household bleach and water (1 part water to 1 part bleach).

Repairing Surface Damage

Surface damage, such as minor chips, scratches, burn marks and graffiti can be repaired with a fine grit abrasive cleanser, such as a Scotch-Brite pad or fine grit sandpaper. For more serious physical damage caused by vandals, an Acorn Solid Surface Repair Kit is available. Contact the factory for details. Refer to drawing #9927-160-002.

CARE AND CLEANING OF ENVIRO GLAZE/ POWDER COATING

Recommended Cleaning Materials:

- · Sponge natural or artificial
- Nylon or other soft-bristle brush
- Microfiber Cloth

Recommended Cleaning Solutions:

- Hand dishwashing liquid / soft water solution
- Mild soap / soft water solution
- Soft-Scrub®
- Comet Soft Cleanser®
- Clorox®
- Scrubbing Bubbles ® Gel

Normal Cleaning:

For everyday cleaning, use a sponge or cotton cloth soaked in mild soap and wipe-down surface. In industrial or marine locations, close attention should be paid to regular care due to harsher atmosphere.

To remove dirt and debris:

Fixture should be periodically washed with a diluted solution of a mild non-abrasive detergent (e.g. Dawn ®) in cold or ambient temperature water using a soft non-abrasive cloth or chamois.

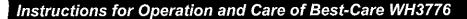




Description	Part No.	Diagram
	r dicivo.	
COMBINED WASTE ASSEMBLY 1-1/4" OD Waste Bend Connection	4970-180-001	
1-1/2" OD Tubular P-Trap	4953-001-000	
Ligature Resistant Elbow Strainer	4926-080-000	
1-1/2" Nylon Compression Washer	0431-125-000	
1-1/2" IPS x 1-1/2" Slip Nut	4970-059-000	
ENCLOSURES		
P-Trap Cover	Left BU5CRN42-002 Right BU5CRN40-002 (Shown)	



Description	Part No.	Diagram
ELECTRONIC HARDWARE		
9VDC Plug-In Transformer	0710-735-001	
9 VDC Battery-Pak Assy (6 AA Batteries Not Included) Battery-Pak Mounting Bracket	0710-358-001 6155-013-199	
ASSEMBLY HARDWARE		
#10-32 x 1/2" S/S Hex C/R Button Head Screw, White	0112-044-000	
1/4"-20 UNC x 3/4" Hex Head Cap Screw	0206-008-000	
1/4" Lock Washer	0337-050-000	
1/4" Flat Washer	0331-005-000	







Certain optional Best-Care® Faucet Parts are included for reference. When specified, refer to selected Faucet Model for additional details.

Description	Part No.	Diagram
VALVE		-
-WH3376L Optional -03-M Single Temp, Metering Valve Assembly	2590-900-001	
-WH3376L-MXTP Optional -03-M-MXTP, Single Temp, Temperature-Pressure Balancing Mixing Valve, ASSE 1070 Compliant	2590-901-001	
-WH3377L Optional -04-M Hot & Cold, Metering Valve Assembly	2590-910-001	
-WH3377L-MXTP Optional -04-M-MXTP, Hot & Cold, Temperature-Pressure Balancing Mixing Valve, ASSE 1070 Compliant	2590-911-001	



Description	Part No.	Diagram
VALVE		
-WH3377L-PPZ -WH3377L-WSF-SO -WH3375L-WSF-SO Optional Electronic Metering Valve Assembly, Single Temperature	2590-905-001	
-WH3377L-PPZ-MXTP -WH3377L-WSF-SO-MXTP -WH3375L-SO-MXTP Optional Electronic Metering Valve Assembly, Single Temp, Temperature- Pressure Balancing Mixing Valve, ASSE 1070 Compliant	2590-906-001	
-WH3377L-PPZ Optional Electronic Metering Valve Assembly, Hot and Cold	2590-915-001	
-WH3377L-PPZ-MXTP Optional Electronic Metering Valve Assembly, Hot and Cold, Temperature- Pressure Balancing Mixing Valve, ASSE 1070 Compliant	2590-916-001	

L-2 LAVATORY

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

Model No.

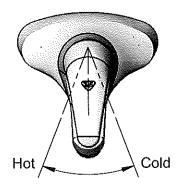
B-2711-VF05

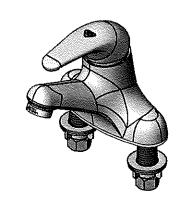
Item No.

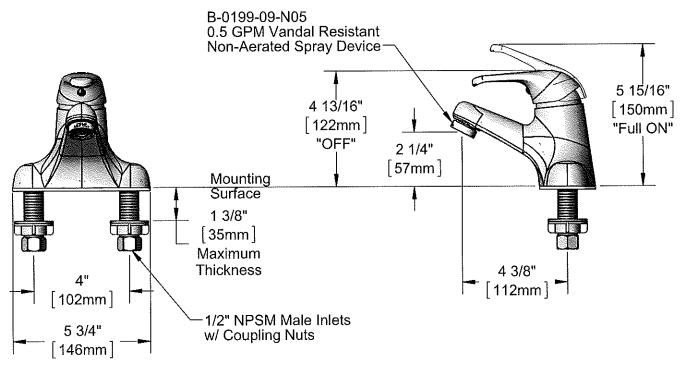
Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com

	Ġ.
ADA	Compliant

This Space for Architect/E	ngineer Approval
Job Name	Date
Model Specified	Quantity
Customer/Wholesaler	
Contractor	
Architect/Engineer	







Rough-In Requirement: (2) \emptyset 1" [25mm] Mounting Holes

Product Specifications:

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

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

07/23/16 Sheet: 1 of 2 Scale: 1:4 JHB Drawn: DMH Checked: JRM Approved: Date:



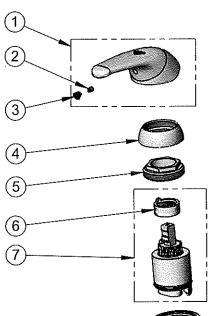
T&S BRASS AND BRONZE WORKS, INC. ² Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690

Model No.

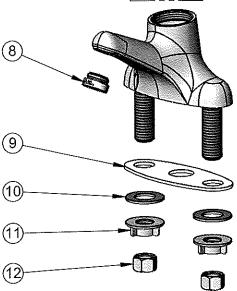
B-2711-VF05

Item No.

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



120-0100	1 ax. 004-00-1-00 10	**************************************
ITEM NO.	SALES NO.	DESCRIPTION
1	013113-45	Single Lever Short Handle
2	016675-45	Set Screw
3	014173-45	Index, Temperature
4	016661-45	Trim Ring
5	016663-45	Locking Nut
6	015400-45	Temperature Limit Stop
7	013111-45	Ceramic Cartridge w/ Temperature Limit Stop
8	B-0199-09-N05	0.5 GPM VR Spray Device, 15/16-27 Male w/ Key
9	014167-45	Deck Gasket
10	000999-45	Brass Lock Washer
11	016673-45	Shank Nut
12	000958-20	Coupling Nut





Product Specifications:

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

Product Compliance:

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

	DMH	I Chocked:	JRM		JHB	IDate:	07/23/16	i Scale:	NIS	Shoot 2		
Drawn:				IApproved:							OT 2	
		TCnecked:										

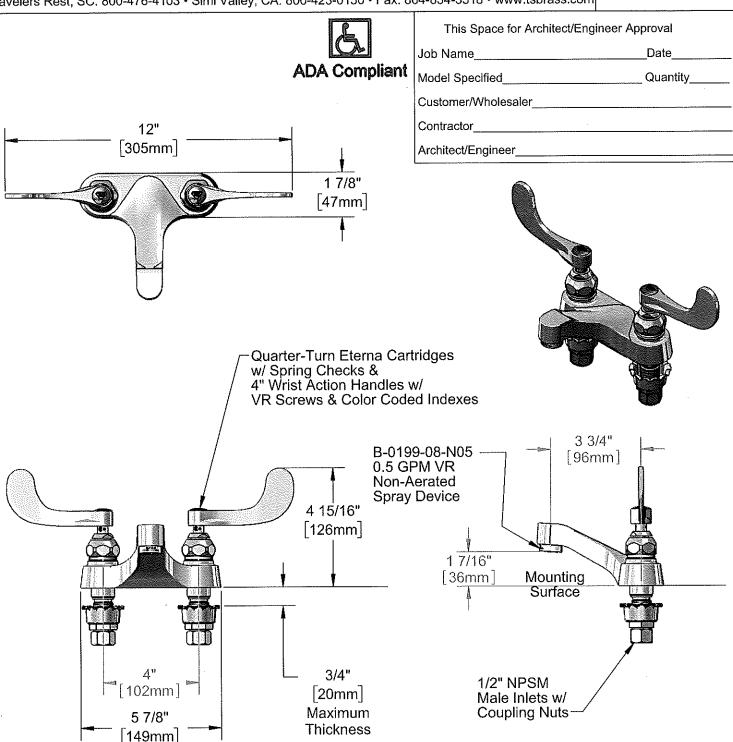
T&S BRASS AND BRONZE WORKS, INC. 2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690

Model No.

B-0890-VF05

Item No.

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



Rough-In Requirement:

(2) Ø 1 1/8" [29mm] Mounting Holes

Product Specifications:

4" Centerset Deck Mount Faucet, Quarter-Turn Eterna Cartridges w/ Spring Checks, 4" Wrist Action Handles w/ Vandal Resistant Screws, 0.5 GPM VR Non-Aerated Spray Device & 1/2" NPSM Male Inlets w/ Coupling Nuts

Product Compliance:

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

08/06/18 Scale: 1:4 Sheet: 1 JHB Date: DMH Approved: Drawn: MRC Checked:



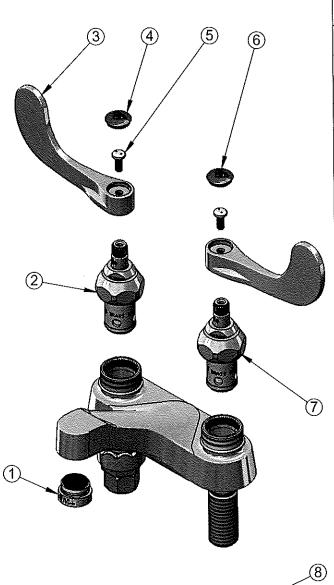
T&S BRASS AND BRONZE WORKS, INC.

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

B-0890-VF05

Item No.

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



0010010010 77	
SALES NO.	DESCRIPTION
B-0199-08-N05	0.5 GPM VR Spray Device, 13/16-27 Male
012443-40NS	Quarter-Turn Eterna Cartridge w/ Spring Check, RTC
B-WH4-NS	Wrist Action Handle (New Style)
001193-19NS	Red Button Index, Press-in
VRS-2	VR Wrist Action Handle Screw (2) w/ Spanner Bit
018506-19NS	Blue Button Index, Press-in
012442-40NS	Quarter-Turn Eterna Cartridge w/ Spring Check, LTC
001000-45	Rosette Washer
002954-45	Shank Lock Nut
000958-20	Coupling Nut
	B-0199-08-N05 012443-40NS B-WH4-NS 001193-19NS VRS-2 018506-19NS 012442-40NS 001000-45 002954-45



015425-45 Vandal Resistant Key



014075-45 Vandal Resistant #10 Spanner Bit

Product Specifications:

4" Centerset Deck Mount Faucet, Quarter-Turn Eterna Cartridges w/ Spring Checks, 4" Wrist Action Handles w/ Vandal Resistant Screws, 0.5 GPM VR Non-Aerated Spray Device & 1/2" NPSM Male Inlets w/ Coupling Nuts

Product Compliance:

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

Drawn: MRC Checked: DMH Approved: JHB Date: 08/06/18 Scale: NTS Sheet: 2 of 2

9

10)



Tempering Valve

Division of Acorn Engineering Comp



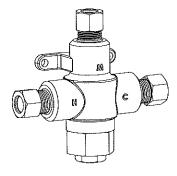
A MEMBER OF MORRIS GROUP

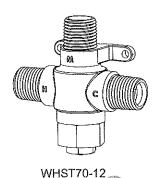


Lead-Free Lavatory Tempering Valve With Integral Mounting Feet

APPLICATION:

The Acorn WHST70 is an ASSE 1070 certified, lead-free thermostatic tempering valve that protects against dangerously hot water in any commercial sink or lavatory application. This valve can be used with any type of faucet for maximum flexibility and can accommodate a single lavatory or up to 8 hand washing stations having a 0.5 gpm flow rate.





WHST70-38

Patent #9,989,017

Above Set Point

FEATURES:

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

SPECIFICATIONS:

Valve Specifications:

Maximum Operating Pressure: 125 PSI (861 kPa)

Flow Rate @ 45 psi (310 kpa) differential:

WHST70-12: 4.5 GPM (17 LPM) WHST70-38: 4.0 GPM (15 LPM)

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

Maximum Hot Water Temp: 180°F (82°C)

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

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

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

WHOTZO 49

MALIO 110-	12							
PRESSURE DROP PSID (kPa)	Cv	5 (34)	10 (69)	15 (103)	20 (138)	30 (207)	45 (310)	60 (414)
FLOW RATE GPM (LPM)	0.7	1.5 (5.7)	2.1 (8)	2.6 (9.8)	3 (11.4)	3.7 (14)	4.5 (17)	5.2 (19.7)

MULOTZO 00

WHS17U-	38	· · ·				r ·		,
PRESSURE DROP PSID (kPa)	Cv	5 (34)	10 (69)	15 (103)	20 (138)	30 (207)	45 (310)	60 (414)
FLOW RATE GPM (LPM)	0.6	1.3 (5)	1.9 (7.1)	2.3 (8.7)	2.7 (10)	3.3 (12.4)	4 (15)	4.6 (17.5)

^{*} In accordance with ASSE 1070 as certified by IAPMO

GUIDE SPECIFICATION:

The lavatory tempering valve shall be IAPMO lab certified per ASSE 1070 at 0.25 GPM (1.0 LPM) and CSA standards and shall have a solid brass body with corrosion resistant internal components. It shall include integral checks with screens to prevent backflow and to filter debris from entering the valve. Temperature adjustment shall be made using an allen wrench and a locknut on the bonnet to prevent unauthorized or accidental temperature adjustment. Valve shall provide 4.0 GPM (15 LPM) with 3/8" compression connection and 4.5 GPM (17 LPM) capacity with the 1/2" NPT connection at 45 psi (310 kPa) differential. Temperature range shall be 85°F-115° F (29°C-46° C). Valve shall be Whitehall model WHST70.

Please visit www.whitehallmfg.com for most current specifications

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

Complies with the following standards







^{**} Under Normal Operating Conditions

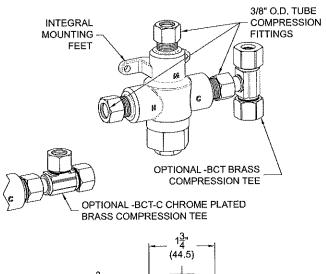
The wetted surface of these valves contacted by consumable water contains less than 0.25% of lead by weight in conformance with national lead free law.

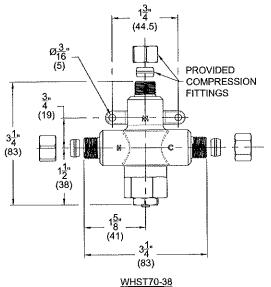
Tempering Valve

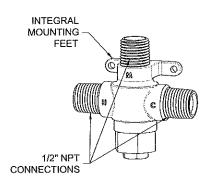
VALVE SELECTION:

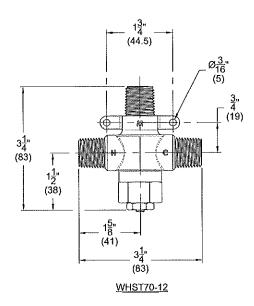
- ☐ WHST70-12 Brass Valve Body With 1/2" NPT Connections
- ☐ WHST70-38 Brass Valve Body With 3/8" Compression Connections

TECHNICAL DIMENSIONS:









All dimensions are nominal and subject to manufacturer's change without notice. Whitehall assumes no responsibility fo use of void or suspended data © Whitehall Manufacturing, Member of Morris Group International. Please visit www.whitehallmfg.com for most current specifications.

	er and Reproductive Harm - www.P65Warnings.ca.gov
SELECTION SUMMARY & APPRO	VAL FOR MANUFACTURING
Model Number & Options	Quantity
Company	Date
Contact	Title
Approval for Manufacturing/Signature	

L-2 LAVATORY



T&S BRASS AND BRONZE WORKS, INC.

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

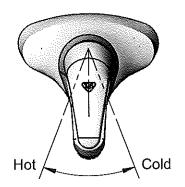
B-2711-VF05

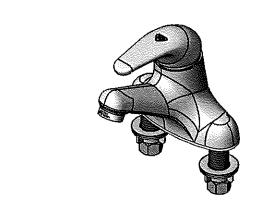
Item No.

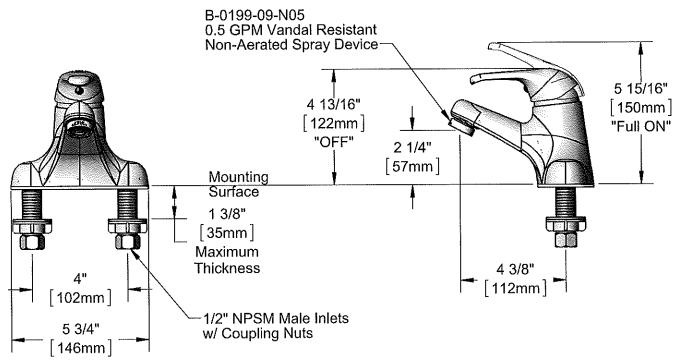
Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com

	Ġ.
ADA	Compliant

This Space for Architect/E	Engineer Approval
Job Name	Date
Model Specified	Quantity
Customer/Wholesaler	
Contractor	and the second s
Architect/Engineer	







Rough-In Requirement: (2) Ø1" [25mm] Mounting Holes

Product Specifications:

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

Product Compliance:

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

Drawn: DMH Checked: JRM Approved: JHB Date: 07/23/16 Scale: 1:4 Sheet: 1 of 2



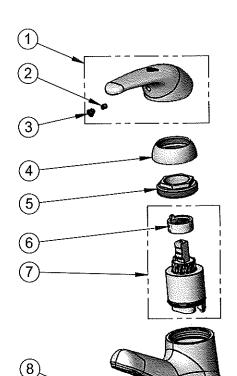
T&S BRASS AND BRONZE WORKS, INC.

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

B-2711-VF05

Item No.

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



20-0100	1 ax. 00-1 00 1 00 10	171717,tob1d00;00111
ITEM NO.	SALES NO.	DESCRIPTION
1	013113-45	Single Lever Short Handle
2	016675-45	Set Screw
3	014173-45	Index, Temperature
4	016661-45	Trim Ring
5	016663-45	Locking Nut
6	015400-45	Temperature Limit Stop
7	013111-45	Ceramic Cartridge w/ Temperature Limit Stop
8	B-0199-09-N05	0.5 GPM VR Spray Device, 15/16-27 Male w/ Key
9	014167-45	Deck Gasket
10	000999-45	Brass Lock Washer
11	016673-45	Shank Nut
12	000958-20	Coupling Nut



015425-45 Vandal Resistant Key

Product Specifications:

(9

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

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

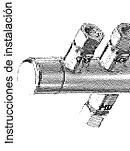
F.								··-		
	D 4 11 1	- I O I I	1000	A	ILID	150-4	07/23/16	IScale:	NTS	Chapte 2 of 2 l
lDrawn:	DMH	IChecked:	JRM	IApproved:	JHB	lDate:	U////3/ ID	LOCARE:	IVI O	ISheet: 2 of 21
i Diawii.	DIVII 1	OHOUNCU.	OLVIN	proproved.	0110	Da.o.	01720710	1000.01		







Heatguard 135 LF Series Installation Instructions Mode d'installation



/álvula mezcladora termostática Robinet mitigeur thermostatique Thermostatic Mixing Valve

10549 Rev B

MIXING VALVE SPECIFICATIONS

:				\ 	\	/			
105-110'F (40-43.3'C)	95 - 120°F (35 - 49°C)	120 - 190°F (49 - 82°C)	39 - 80*f (4 – 27°C)	230 psi (1600 kPa)	: %DZŦ	5°F (2.8°C)	2.5 gal/mln (9.5 L/min)	0.25 gal/min [1.0	L/min)
tory set autlet temperature:	ustable outfet temperature range:	sperature, hot supply:	sperature, cold supply:	ximum supply pressure:	matted supply pressure variation:	1. Inlet temperature differential	w rate (@ 20 psi pressure loss:		# rate, rainimum:

Maximum permitted variation in either supply pressure in order to control the outlet temperature to within ±5°F. Excessive changes in supply pressures may cause changes in outlet temperature.

HECKING / SERVICING THE MIXING VALVE

ote that this thermostatic mixing valve is a SAFETY VALVE. We recommend that e valve is checked at least once per year to ensure its continued function. For inditions, it may be necessary to check the valve at more frequent intervals. stallations with poor or unknown water quality, or other adverse supply

ermostatic mixing valve due to seasonal temperature variations in the cold water re temperature should be checked at the same outlet as was used for immissioning in the first instance. If the temperature is more than 5°F from the nere may be some variation in the temperature of the water from the immissioning temperature, refer to fault finding gulde below. pply. The check valve can be easily accessed for cleaning.

IMPORTANT

Failure to comply with all aspects of these instructions may result in unsafe performance. All installations must comply with relevant State and Local Authority

the valve. For correct and safe system function, ensure that the strainer is clean of Non return valves and strainers are integrated in the cold and hot water inlets of Non Return Valves:

debris and functioning correctly.

Flust her piping and shat throroughly before installing the Heatguard:

It is critical that all debris is filtaried from the pipework prior to installing the valve.

It is critical that all debris is filtaried from the pipework prior to installing the valve.

Not flushing the system properly is the most common cause of system difficulties.

The temperature of the hot water supplying the mixing valve should be at least 27°F higher than the maximum required valve setting. Every valve is factory set between 105°F and 110°F outlet temperature.*

Measure and note all site parameters (pressure, temperature, etc.) and check against the specifications of the chosen valve. If the site conditions are outside those specified for the valve then they must be rectified prior to installing the valve.

Valve MUST NOT be subjected to heat during installation as this may damage the

Valve MIST NOT be fitted on steam-supplied systems, but to water systems only. Valve MIST NOT be frozen. If the valve is installed in a situation where freezing is a possibility, then suitable insulation must be fitted to prevent damage to the valve.

DO NOT use excess thread sealant (in liquid, tape or other form) as this may cause the valve to fail.

<u>"NOTE;</u> To ensure delivery of the desired mixed water temperature at the outlet the installer must adjust and verify the temperature at the outlet by carefully following instructions on the following page.

ESPECIFICACIONES DE VÁLVULA MEZCLADORA ES CARACTÉRISTIQUES DU MITIGEUR THERMOSTATIQUE

le réglage de la températuro fempérature de sortio règide à

95-120°F (35-49°C) 105 - 110°F (40

- 180°F (48 39 - 80°F (4 - 27°C)

5-F (2.8°C) *20%

Débit à la porte de pression de 50 par.

Notes:

Pression d'alimentation maxima Variation totérée de la pression Température de l'esu chaude: mperature de l'eau froide

Coudal, mini

		A Charles of the State of the S
Caudal @ 45es perdada de presión:		9.5 l/mln. (2.5 gal/mm)
Différentiel de température d'antrès minimem	And prompted	5°F (2.8°U)
euministro:		
Permitida vanación de presion de	\	±20% ³
Present internal or servingence.		
Presión móvina de suministra:	_	1600 kPa (230 pal)
Trian		4 & 27°C (39 & 90°F)
collecto:		49 5 82-C (120 a 180°F)
Temperatura, suministro de agua		
Margon de la tomparatula va desartite:	,	35 à 49 °C" (95 à 12075)
desagüe:	,	40843-C(ROBINE)
Preestablezcata tengeratura de		Cathe & Most Cathe & Ca

Il s'agit de l'écart maximal permis de la pression de l'eau chaude ou de l'eau froide pour que la température de l'eau à la sortie ne varie pas au-delá de ± 3 °C. De brusques variations de la pression dans les tuyaux d'alimentation peuvent causer un changement de la température de l'eau au point de sortie.

VÉRIFICATION ET ENTRETIEN DU MITIGEUR THERMOSTATIQUE

Vouller noter qu'un mitigeur thermostatique est une SOURAPE DE SECURITÉ Mous recommandons de faire verifier le bon fonctionnement du mitigeur thermostatique au moins une bôs gear année. Dans de is restallations où l'auu est de piètre qualité ou de qualité inconnue un encore si les conditions d'alimentation sont mauvaises, il peut is avier nécessaire de vérifier plus fréquemment le fonctionnement du mitigeur thermostatique.

3°C à température de régiage, consultat la section de dépantage es trouvont ci-déssous. La température de l'eaus éteoubant du mitigeur thermostatique peut varier en raison des variations de la température de l'eau froide selon les saisons, le cipect de non-retrour est facile. La température de l'eau doit être vérifiée à la même sontle qui a été servi au réglage initial du mitigeur thermostatique (vérifiez l'étiquette autocollante), Si la température est supérfieure de

La temperatura debe ser comprobada al mismo desagúe usando al inicio de la instalación. Si la temperatura voria más que 5 F que ha trupecentra inicial, consistie la guía de fallos abajo. Hay possibilidad de varación de la temperatura del agua de la videvala merciadora termostática bajo la influencia de la valvación de la temperatura el esponjo de ne il suministro de agua fría. La valvacia de la control se puede alcanzar comociamente para limpiar.

si el sumbacto de agua sea de calidad pobre o dercanacida, un filtro elebe ser instaledes a la estratal del Institem para ales to errada de guel fils a ambos ol caldactor de agua y o la vólnula meccadora seam prosegno de sucietad y excembra.

COMPROBACION/MANTENIMIENTO DE LA VALVULA MEZCLADORA
Note que la válvula metoladora termostraliza es una válvula de segunda. Nosotros
recomendanos que la válvula sea comprobada anualmente para asegunar una funcionalidad
recomendanos que la válvula sea comprobada anualmente para asegunar una funcionalidad
continua. Para instalaciones en sistema de agua de podre calidad o desconacida unalidad de
agua o ambientes adversos, puede ser necesario comprobar la válvula más frecuentemente.

Máxima variación permitida de ambos suministros de presión para controlar la temperatura de desagüe dentro ±5 °F. Cambios excesivos de

presión de

SI Fasu alimentant le circult est de piètre qualità ou do qualità incomut, des filtres doivent être coupiés à Finstaliation afin que les entrées d'eau froide du chauffe-eou et du mitigeur solent protégées des soletés.

IMPORTANT

Toute omission de se conformer à ces directives en entier est susceptible de poser des risques. Toutes les installations doivent être réalisées conformément aux exigences en vigueur dans la province ou la région de l'installation.

Válvulas de Retención:

del estatal, provincial y local.

caliente de la válvula. Para garantizar el funcionamiento correcto y seguro del sistema, asegúrese de que el filtro no contenga residuos y funcione correctamente Los filtros y las válvulas anti retorno se encuentran en las entradas de agua fría y

No cumplir con todos aspectos de las instrucciones puede resultar en una ejecució

IMPORTANTE

insegura. Todas instalaciones deben cumplir con las recomendaciones relevantes

válvula. No vaciar el sistema precisamente es la mayor causa de las dificultades de Vacie la tuberia y el tanque precisamente antes de la instalación de Heatguard: Es fundamental que la tubería esté libre de todos los escombros antes de instalar

> Vider complètement la tuyauterie et le chauffe-eau avant d'installer le Heatguard: Il est ESSENTIEL que toutes les salerés soient purgées de la tuyauterie avant de procéder à l'installation du mitigeur thermostatique. Pour la plupart, les difficultés de fonctionnement du système s'expliquent par une vidange du dircuit mal exécutée

vous que la crépine n'est pas obstruée et qu'elle fonctionne correctement.

Les clapets antiretour et les crépines sont intégrés aux arrivées d'eau chaude et d'eau froide de la vanne. Pour bénéficier d'un système sûr et fonctionnel, assurez-

Distribución de Temperatura

La temperatura de agua caliente suministrando la válvula merciadora debe ser al menos de 27 T finada la que le máximo requeridos de la configuración de la válvulá tradas válvulas exán configuradas por la factoria entre 105 F y 1,10 F de temperatura de salida, con 1,50 F de temperatura de agua caliente de entrada.

supérieur d'au moins 15 °C au réglage maximal du mitigeur. Chaque initigeur est réglé en usine pour que la température de l'eau distribuée soit entre 40.6 °C et 43 °C alors que la température de l'eau chaude à l'entrée du mitigeur soit à 66 °C.

La température de l'eau chaude alimentant le mitigeur thermostatique doit être

Température de l'eau distribuée:

Mesurez et prenez en note tous les paramètres du fleu d'installation : la pression, la température, etc. Comparaz tels donnés aux caractéristiques du milgeur the mostatique chiosi, si les paramètres du lieu d'installation ne se conforment pas aux caractéristiques du mitigeur thermostatique, il faut alors procéder aux rectifications d'u

Mida y note todos los parámetros del ambiente (presión, temperatura, ettéferal) y compare con las características técnicas de la válvula elegida. Si las condiciones de ambiente exceden las características técnicas de la válvula ellos tienen que ser rectificadas antes de la instalación de la válvula,

Váívula No Debe ser expuesta al calor durante la instalación ya que el calor podria dañar el interior de la válvula.

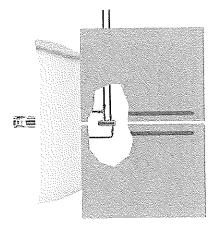
Válvula No Debe ser instalada al sistema suministrado por vapor sino solamente a

Válvula No Debe ser congelada. Si la válvula esté instalada donde haya posibilidad de congelación, un aislamiento debe ser apropiado para prevenir daño a la válvula No use exceso de sellador de roscas (en liquido, cinta y otra forma) como esto podría lievar ia válvula a fracasar. lieu avant d'instiller le miligeur.

Le mitigeur thermotstatique NE DOIT PAS être reposé à la chaleur durant l'installation, car et la pourtait en dommager ses composants intenes. Le mitigeur thermostatique NE DOIT PAS être couple aux natialiators à vapeur, mais installations contenant uniquement de l'eau, te mitigeur thermostatique NE DOIT PAS être ceposé au gels. Si le mitigeur thermostatique NE DOIT PAS être ceposé au gels. Si le mitigeur thermostatique ME DOIT PAS être ceposé au gels. Si le mitigeur thermostatique ME DOIT PAS être ceposé au gels. Si le mitigeur tied soint soil étre l'oralie dans un lieu suite au gel, il aut aiors employer un matériau soint autre forme, car qui se suite au gel, il aut aiors employer un amériait de un para ous sous sourte autre forme, car ce matériel pourrait unique de ruite de un mitigeur thermostatique car ce matériel pourrait unique des raines et formes que de l'ancient des raines et soint sur le mostation de la consérient de la consérie de l'ancient des raines et soint et au conserve de conserve des raines et verifier et soint de raines au conserve de la consérie de l'accettez Jounist sur le page suivants.

-NOTE; Para azegustr la distribución deseada de temporatura del agua mistra al decagiós, el instalador debe que ájistas y verificar la temperatura al desagüe siguiendo instrucciones con cuidado en la página siguiente.

INSTALLATION TYPIQUE ASSE 1070 TYPICAL ASSE 1070 INSTALLATION INSTALACIÓN TÍPICA ASSE 1070



ผ

-

Prior to setting the valve it is necessary for the hot water source to be switched on and delivering hot water at the design temperature. / Avant de régler la température du mitigeur thermostatique, il faur rétablir l'alimentation en eau chaude et que celle-ci s'écoule à la température normale. / Antes de configurar la valvula es necessario que la fuente de agua caliente sea activada distribuyendo el agua callente a la temperatura diseñada

4

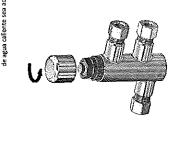
Using a thermometer, test the mixed water temperature at the nearest outlet being supplied by the volve. This should be opened to allow a minimum flow rate of 1.5 gpm (6 L/min), Allow the water to nn for at least one minute to ensure the mixed water temperature has settled.

Utilisant un thermomètre, vérifiez la température de l'eau mitigée au point de sortie le plus près de robinetterie alimenté par le mitigeur. L'appareil de trobinetterie de sorte que l'eau y écoule au débit d'au moins 6 l'Amin, 1.1.5, gal,/min, L. dannes l'eau s'écouler pendant au moins une minute afin que la température de l'eau mitigée se stabilise.

Usando un termómetro, examine la temperatura del agua mixto al desagüe mas cercano suministrado por la valviula. Esta cobe se sa babero para permitir el mísmo casada de 1.5 gam (E/L/min). Permite el agua a correr por lo memos de un minuto para asegura que la temperatura del agua mixta se ha reposada un minuto para asegura que la temperatura del agua mixta se ha reposada

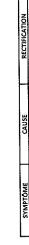






Pour accéder au mécanisme d'ajustement de la température, dévissez le To access the temperature adjustment mechanism, unscrew the cap.

Para acceder al mecanismo de ajuste de la temperatura, afloje la tapa.



SYMPTOME	CAUSE	RECTIFICATION
1) Deau mitigée n'est pas à Ea	- Les températures de l'eau aux	 Veeillez si fes tompératures de l'exu
sembérature vouvoz ou il est	points d'arrivée dépassent les limites	d'entrèe sont conformes sex limites fixées
difficile de rogier le mitigeur	specifices.	pour le miligeur thermostatique.
thermostatique.	Les conduits d'alimentation en ozu	- Renstatlez la mitigeur thermostatique en
	chaude et en eau froide sont	vellant à ce que les condutts d'allmentation
	Invertés.	en zau chaude of en eau froide solent
-	· tes filtres sont abstrués.	couplés aux raccords adéquats.
	- Pressions d'alimentation hors plage	- Mettoyoz les Illares.
	(variation d'alimentation autorisée :	- installez des soupapes de réduction de
	+/- 20 KJ	pression pour one alimentation conforme
		aux spécifications.
2) La température de l'eau	- Les filtres sont abstrués.	- Nettayer les faltres.
mittage n'est pas stable ou	· Variations des pressions	 Installez des régulateurs de pretaton aux
change agrès on certain temps.	d'allmentation.	conduits d'alimentation en eau chaude et en
		eau froide.
3) L'eau entièrement chaude ou	sa,u antinensouseup magini es:	- Réglet la température de molango solon les
entitrement Inside s'ecoute de	pas réglé correctement.	de ectives.
Papparoli de robinetterie.	- Les conduits d'alimentation en suc	 Roinstalfez le mitigeur thermostatique en
	chaude of en sau folds soot	vellant aux condults d'ailmontation en eau
	Inverses	chaude at on cau froide solent couples aus
	· L'esu chaude/Irolde a migré vers	raccords adéquats.
	Pautre arrivgo.	. Verifiet si le clapet de non-rotour est
	- Reportez-vous également ou point L	obstrue. Nettoyez au besoin,
4) It of y a sucon deconlement au	- Uallmentation en cau chaude ou en	- Réparez les condeits d'arrivée d'esu et
polet de sortie du mitigaur	eae fraide est défoctueuse.	vérifiet la température de mélange.
thermostatique.	· Les filtres sont abstruts.	-Nettoyer les tiltres.
5) Le debit diminue ou varie.	, Les filtres sont obstrués.	- Nettoyer les filtres.
	Variations des pressions d'almentation.	- Installez des règulatours de pression.
6] La température de l'eau		- Contacter le sondto dient de Reliance
mitigée ne varie pas lonsque le		Worldwide Corporation
dispositif de réglage de la		
tresperature est modifie.		
7) Upou chause s'écouse dans le	. Les clapets de non-retour sont	- Nettayez les clapets de non-retour en
circuit de l'eau froide ou vice-	obstruks.	vollgant à renner toute la saleté.
S) to retheres thereactivities	- Fear steaule à atte vitesse	- Rédussez la vitesse d'écoulement de l'eau.
nat became	material late	La mpilleure solution consiste à lestaller un
	- Les d'Insersions du mitigeur	regulateur de pression.
	thermostatique ne conviendent pay.	Voitfiez les caractéristiques du mitigrur
		thermostatique of velifier utilises to mitigaur
		gui convient selan le difeit.

non-return valve is not fouled. Clear

-Adjust rea temperature as reculted -Refit the valve with Hot/Gold suppli to the correct connections. -Check non-return valve is not fouler. hot and cold supplies.

Valve is lacorrectly set.
Hot and cold supplies are reversed
Hot/Cold water has religrated to

wher inlet. Refer also to point 1.

-Clean Strainers. -Install pressure regulating valves.

Hot or cold water supply Strainers are blocked.

Clean strainers. Install pressure regulating valves on both

Strainers are blocked. -Fluctuating supply pressures.

-Supply pressures out of specification (permitted si vanation +/- 20%)

Strainers are blocked.

Laisser une copie de cette natice avec le client pour ivur information. <u>Consellior au ellent que le initideur</u> selt <u>vésfilé, chaque ans pour assurer son bon fonctionnements</u>

Leave 3 copy of these instructions with the client for future reference. <u>Recommend to the client that the</u> yeave 15 centinued function.

Reduce water velocity (trest achieved by fitting, a pressure regulating valve).
-Check valve specifications and ensure the appropriate valve is used for required flow.

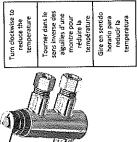
belual saview mutar-na

Hot water flows into the Id water system or vice Mixed water temperature ws not change when experature adjuster is

Excessive water velocity Valve sited incorrectly.



Gire en sentido anti horario para aumentar la temperatura



To adjust the mixed outlet temperature of the valve, turn the spindle using the adjustment tool – clockwise to reduce the temperature, counter clockwise to increase the temperature - until the desired set point is reached.

Remettez le capuchon pour éviter les manipulations non souhaitées.

Replace the cap to deter tampering.

Cambie el mando para disuadir a manipulación.

Para ajustar la temperatura mixta de la salida de la váhvula, gire el eje usando la herramente de ajustre – en sentido horaño para reducir la temperatura, en sentido anti horaño para areducir la temperatura, en sentido anti horaño para aumentar la temperatura – hasta que se obtiene el puro de ajustre diseñfado. Pour règler la température de l'eau à la sortie du mitigeur thermostatique, il faut tounner la tige en utilisant l'outil de règlage - en sens horaire pour abaisser la température ou dans le sens anthoraire pour augmenter la température.



Repare los ajustes do las válvulas con k summinatros de agua fría y saliente. - Limple los coladores. - Cotoque válvulas reguladoros de presió

Presión de suministro no cumple con especificaciones (variación de suministro permisida 4/- 20 %).

entrada caben con las Umites espe-

CAUSA

FRACASO/SINTOMA

1) 12 temperatura del agua
minta descada en puedo xer
abtenida o os dificil de
configurar la válvalia.

Reliance Worldwide Corporation

Customer Service : 1-877-700-4242 Fax: 1-877-700-4280 E-mail: sales@cashacme.com 2300 Defoor Hills Rd NW Atlanta, GA 30318

Reliance Worldwide Corporation (Canada) Inc.

requendo.

- Restablecas los ajustes de la válvala con
los suministros de aqua fria y calente
enciabado en la conseide surreira.

- Verifiquo al avalvala de retentidon está
fallada y limpie si necesario.

fria son unvertidos.

- El agua Malycaliento ha cambiado de entrada.
- Consulto también el punto 1. Los suministros de agua callente y Siesala esta coeffgurada de forma

racaso de suministro de agua

Customer Service: 1-888-820-0120 Fax: 1-905-265-2775 E-mail: canadasales@rwc.com L4L SXI, Canada 74 Alex Avenue

- instale volvutas regladoras de presión - Póngase en contacto con el servicio d atembion al diente de Rollance Worldew Corporation.

misto no cambia cuondo o ojuste de temperatura es alterado. 7) Agua callente corre al sistema de agua fria o

- Limple tos válvulos de retencido asegurándose do que ot escombra

Pour de l'information au sujet de la garantie, allez à: Información sobre la garantía, visite las páginas: For warranty information, please visit:

www.cashacme.com www.cashacme.ca

Deje una copia de estas instrucciones con el cliente para referencias en el futuro. <u>Recomandé al câmtre que</u> Ja vélvula es co<u>mpçtobada anualmente para apsreviar su función interrumbido.</u>

Aluste la especificación de válvula y esegüece de que la válvula apropiada usada para el líulo requerido.

eplizado por instalar una valvula



Tes

T&S BRASS AND BRONZE WORKS, INC.

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

B-2711-VF05

Item No.

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

Ġ.
ADA Compliant

This Space for Architect/Engineer Approval

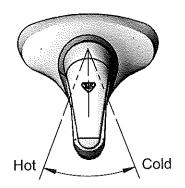
Job Name______Date____

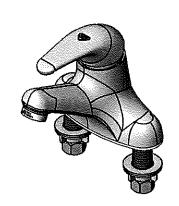
Model Specified_____Quantity_____

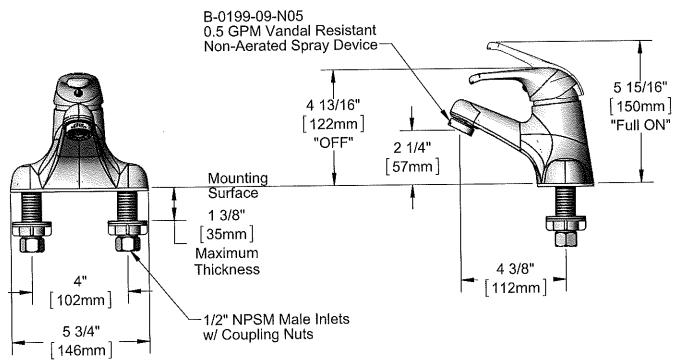
Customer/Wholesaler____

Contractor_____

Architect/Engineer







Rough-In Requirement: (2) Ø1" [25mm] Mounting Holes

Product Specifications:

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

Product Compliance:

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

Drawn: DMH Checked: JRM Approved: JHB Date: 07/23/16 Scale: 1:4 Sheet: 1 of 2



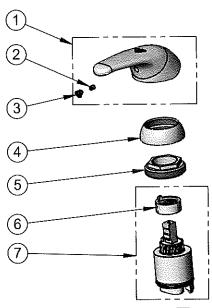
T&S BRASS AND BRONZE WORKS, INC.

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

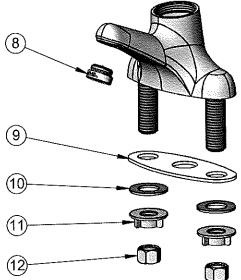
B-2711-VF05

Item No.

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



ITEM NO.	SALES NO.	DESCRIPTION					
1	013113-45	Single Lever Short Handle					
2	016675-45	Set Screw					
3	014173-45	Index, Temperature					
4	016661-45	Trim Ring					
5	016663-45	Locking Nut					
6	015400-45	Temperature Limit Stop					
7	013111-45	Ceramic Cartridge w/ Temperature Limit Stop					
8	B-0199-09-N05	0.5 GPM VR Spray Device, 15/16-27 Male w/ Key					
9	014167-45	Deck Gasket					
10	000999-45	Brass Lock Washer					
11	016673-45	Shank Nut					
12	000958-20	Coupling Nut					





Product Specifications:

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

Product Compliance:

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

1							1			1
_	D 3 41 1	100 1 1	15004	Assessed	ILID	Date:	07/23/16	IScale:	NTS	Sheet: 2 of 2 l
Drawn:	DMH	Checked:	JRM	lApproved:	JHB	เมลเซ.	0//23/10	Jocaio.	NIO	011000. 2 01 23
L CICIANII.	DIVII I	i Cilioditou.	O	tle.le						

HEATGUARD 145 SERIES



IMPORTANT

Non Return Valveet. Non return velocis are integrated in the costs and have water inless of the velve. For correct and soles system function, ensure that the chock velive is clean foliates and unclaiming somethy.

Elach the appears thousandly soften installing the Nebspace of the second who is beinging the spatien proporty at the second in debate a busbation the lappearst profession second in a second medical second poor a unknown water quely, regular second secon

volve setting. Every valva la Dollkory Temperature: The bimperature for the took variest supplying the missing value should so of looss 27°F legibler than the max Visitory of all between 119°F and 120°F pulset temperature, with a 150°F hot water fals femperature.

Cheek: Massarus and note all sits parameters (prezum, temportatre, etc.) and cheek against the specifications of the choren valve. If the sits confisions are subside books specified for the valve then they must be notified spor to installing the valve.

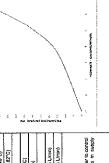
View MIST NOT be adjected to heat carry installation as the may demonstrate the recording to which the view interrupts be when interrupts to the state of the state of the view is interrupted by the view interrupts between the view of interrupts and in white interrupts to state of the view in interrupt in a state of in a state of the view interrupt in a proposition.

must be fitted to provent

DO NOT usa excess thread sectors (in liquid, topo or other form) as this may cause the valve to fail

NOTE. To ensure delivery of the drawed mesod water temperature at the outlet the fresheler must adjust and worly the temperature at the outlet by consening instructions on the following page.

105 - 110°F (40.6 - 43.3°C) As lotated in accordance with ASSE1017. Morantia parmitted variation an either supply prosaure in oxider to control the cuttien temperature to within 45°F. Exceptive changes in supply pressures may cause changes in outlet temporature. 85 - 118°F (15-48°C) 120 - 180°F (16-82°C) 200°F (18°C) 1 39 - 80°F (14-27°C) 200 pg (1500 (Pa) 200 pg (1500 (Pa) 200% 6 5.2 gallinin (13.5 Umin) 0.34 gallinin (13.5 Umin) ornisted supply prossure varial low rato @ 50psi prossure loss



Control of Service of The Markor VALVE. Yet recommend that the view is checked at least orcus per year to ensure its carchined blook shall be hemostase mention and as a SKEETY VALVE. Yet recommend that the view is checked any per to ensure its carchined former. For regulations with post or unknown vestor quality, or other anyware supply condition, it may be necessary to check the veine at more inspectations.

The temperature should be checked at the same sudel as was used for commeaturing in the flat inclumes. If the temperature is nor eithen 5°F from including the place of the subject of the water supply. The check velve can be early accessed for cleaning via the flexible hose connection.

I the water supply is of poor or unknown quality, a filter or strainer should be fitted at the Injet to the system such that the cold niet to both the water heater and the mixing valve are protected from dirt and dobris.

FAULT / SYMPTOM	CAUSE	RECTIFICATION
1) The desired mixed water temperature cannot be obtained or valve is difficult to set.	Intel temperatures are not within specific limits. Het and cald supplies are reversed. Strainers are blocked.	-Ensure into tomporatures are within the apacitied finals for the valve. For the valve with Hot/Cold supplies fitted to the carried connection.
2) Mix temperature unstable or changing over time.	Strainers are alocked. -Fuctuating aupply pressures.	-Clean strainersClean strainersInstall preserve regulating valves on both hot and cold similar similar.
3) Either full hat or full cold wher flowing from outlet fature.	-Valve is incornedly act	-Agust mer temperature as requiredAgust mer temperature as required Refit the valve with roll/Cold supplies fitted to the cornect controdictor Chock new-return valve is not foulded. Choch II necks.
4) No flow from the valve autlet. 5) Flow rate reduced or fluctualing.	Hot or cold water supply failure, Strainers are blacked. Strainers are blacked.	-Reatore miot supplies and check mix temperatureClean strainersClean Strainers.
6) Mixed water temperature closs not change when temperature adjuster is altered.	-Fluctualing supply pressuresHot and cold supplies are reversed.	inabl) prossure regulating valvesRaff the valve with Hor/Cold supplies litted to the correct connections.
7) Hot waler flows into the cold water system or vice versa.	-Non-roturn valvas fooled,	-Clean non-returns ensuring debits is removed.
8) Valve & nalsy.	-Expessive water velocityValve aixed incorrectly.	Reduce water velocity (best achieved by fitting a proature regulating veloc). Check veloc specifications and oncure the americans veloc is used for received flow.
Leavo a copy of these instructions with the cho	nt for future reference. <u>Recommend to th</u>	Leave a capy of those instructors with the clear for future relationse. Recommend to the client that the valve is checked annually to enture

FR

faute aminsian de se conformer à cos directivos en entier est susceptible de posar des risques. Foutae les installations doivent être réalisées conformément aux axigances en vigueur dans la province ou la r

Clapars de non-retour: Des cipages de nor-retour sont létégées dans les entrées d'eau fibile et d'eau choude du mitigeur. Pour le bon fonctionnement du système. Il est Important dessurer que le dapoir sell dépagé des salades et qu'il fonctionne compétament.

Li berbekture de Neur defebbek.
Li berbekture de Neur double permenten in mitjeur thermotatique doit ibre suprimer d'au moien 15°Cs au rejiège maximal du mitjeur. Ordous mitjeur te rejes en sour que la lampérature de l'asu distribues est entre de 45°C et 49°C deca que la température de l'asu desude à l'onnee du mitjeur sel et 65°C.

HOS		è		ī 		a 14	er-c	₹ 10 ±			
CARACTERISTIQUES DU MITIGEUR THERMOST	40.6 à 43,3°C (105 à 110°F)	35 à 48 °C" (95 à 118°F)	49 à 82°C (120 à 180°F)	93°C (200°F)	4 & 27°C (39 à 80°F)	1600 kPa (230 psl)	₹50% ₹	23.5 Ilmin. (6.2 gal/mln)	1.3 Vmln, (0.34 gal/min)	7107 HOOD TO THE TOTAL OF THE T	The reservoir
CARAC	Température de sortes régiées à l'usine ;	Plage de réglage de la température de sertie :	Température de l'eau chaude :	Température maximum :	Température de l'eau froide :	Prosslon d'almontation maximale ;	Variation tolárde de la pression d'alimentation :	Débit à la perte de pression de 50 psl :	Débit minimal :	Note:	1. Secon les cestres regresos conformentes

if angle do fized manned portred di a prosiden do Teau chi Teau thicke pour que in terrepretente de du Lu di si ordie novi dels de z.3 °C. Do hiuques vanidaries do la procision dan del manufacto pouvoni causar un changarient de la tempura au point de sortie.

Temporalera maxima: Temporalera, suministro de ague fría : Presión máxima de suministro : Permitida variación do presión de sum

Apunitat.

1. Como ampiobado do azuardo con ASSE 1017.

1. Como ampiophodo pormido do parbos amniestras de presión para contradar la temperatura de atraspila natura. Es. Cambido servacidos de presión os la temperatura no desagola natura. Es. Cambido servacidos de presión os asumándos pueden catales cambidos que la temperatura de discapla.

COMPROBACIONAMATENNIERTO DE LA VALVULA MEZCLADORA Ano que las ubabas mandados ilempadades una escidade de aqualidad. Naciones recomendames que la valvada sus compobada anualmente para reogrant usa funcionabidad continua. Pera retalleción se nos agua de pabas caristad o desconocida cualidad de agua o ambientas aderecas, puede sen recembro basinpulade de viden más la covantementa.

La temporativa debo ser comprohado al mismo desogia usando al hilos do la restanción. Si la semporatura vivid más que 5 F que la temporatura hilos como la facilita sobre ablo.
Hilos correlle la de vielación de la percentura del agua de la vivida mecaladora termocalatica bayo la influencia de la vielación de la temperatura prodesi del semberatura del percentura del percentura del la vielación de la temperatura la vielación de que percentura del percentu

inspection of the add the vedical to inform some and an additional properties of the properties of the

Si Fau alimentant lo circuit set de plètre qualifé ou de qualité incomnu, des filtres doivent être coupiés à l'Instaliation afin que res entrées d'eau froide du chauffe-au or du mitigeur soient protégées dos salatés.

Voting a lie perspecializa de frau d'ordere sont

 conformes que innesse l'actes pour le mispar

 Résidente le mispar

 Résidente

 Résidente

SYMPTONE

1) Library maps on visit pas a la culta imprimiente de haus our goints

1) Library maps ou l'est dische de centre dépassent less limites applie le milipour hommoutifique.

1) Charles depassent les limites au l'est dische de la mineraise de la confidence de la confiden

directions.

- Afterstages: on injuger thermostatique on veillant un controlle distinctuale on on the distinctual on the controlle of the cont

- Le migraur Reservostratique rivest pasregule carrectament mismortation en eus
- Les conduits d'alimentations en eus
- Chan chaude et la meut froide sont invenée
- L'abou chaude eu l'acut incide armo
par l'autre confouit.

- Veylillac-vous réferer au premiter

- Les filtres sont obstrués. - Variations des pressions d'alimentation.

2) La tomporature de foou mitigée ricet mentain per stable ou change oprès un certain person
 3) L'oeu entièrement chaude ou chieflement froite s'écoule de l'appareil de rebindissie.

Ropenez les candules d'arrivée d'agu et vérifiez le fempérature de mélange. Agitoyez les filtres. Neffayez los filtres.
 Installez des régulateurs de pression.

point in the control of the control

4) Il ny a aucun écouloment au point de sortie du misgour thermostalique. Le débit diminue ou varie.

instanction of Profestings our surfacts in Heamost Annual Collection of the Collecti

SI el suministro de agua seo de calidad pebre o descenocida, un filtro debe ser instalados a la entrada del élstema para que la entrada de agua fris a ambos el calefactor de agua y a la válvulla mezciadors sean protegidos de suciadad y escembras.

FRACASO/SINTOMA	CAUSA	RECTIFICACIÓN
1) La lemporatura del agun minta deseada no puede ser obtanida o es difici de configurar la váhula.	Temporaturas de entrada no cabe dentro de un parametros especificos. Los auministros de ogue callente y frá están levertidos. Colaidores están bloqueados.	— Adoptine due la tempolatura de la entrada carbon con los lineltes especificados de la vábrula. - Ropare los allestes de las vábrulas con los saministros de opus efira y caliente. - Limpie fiso caluadores.
2) La temperatura mixto es inestable o cample con el tlampo.	- Coladores están bioqueados. - Prosión de suministro fluctuante.	 Limpie las coladores. Instale válvalas regisadoras de presión a amboe suministros de ague frie y callente.
3) Aqua completamente salionite o completamente frie como del accoenda de dosagilo.	- Vivinal retain Canfingurada de lorma Inceriorda Los suministros de ogua caliente y tim anor Inventidos Agua calenhorita ao ha desplozado a ofra autrado Haga reforencia a prente punto.	Agination biographical metal control responsibility of security of extrapheters for eighter of the volumbic conflict saministrop de agua first y citilonio installado on la soutonio romenda. "Annina de la visualiza de retembién este fatilodo y limpo es necesarios.
4) No hay (lujo dol suministro de desagüe de válvala. 5) Caudal reducido o fluctuonto	Fracaso de suministro do agua caliente o frás Coladores están bloqueados. Coladores están bloqueados. Coladores están bloqueados. Prosión de suministro fluctuario.	- Restauce to the entretta die los surmentros y verificar la renopeatura mida Limple los cataderos Limple los cataderos Limple cataderos Imple los cataderos Imple los cataderos Imple de Aplacetas de prosicio.
 La iomparatura de agua mixta no cambia cuando el ajunte de temperatura es alterodo. 	- Los suministros do agua collente y fría catán invertidos	- Arragie la válvulja con el auministro de agua calientelfria ajustada a las conexionas corracias.
7) Agus callente corra at autema de agus fria o vicaverso.	 Vahulas de retención están darladas. 	 Limple tas válvulas de retanción asegurándose de que el escombro esto eliminado.
B) Vàlvula es ruidoso	Volvojdarijemostva do ogua Vdivila masurada incorroclamonto	Objected generalists de appa - Policizza la molecida de appa - Policizza la molecida de appa - Policizza la molecida de appa - Policizza la molecida organização - Para la videnta propolação este vanda para el flujo - Regionição - Re

Researchez to milipary thermosphique on validare La constitue de milipary thermosphique on validare La constitue described described.
 Netipopo to stappe de mon-respue on validare à territoria bette described de montre de militare de mili

Los ciapos de non-relour dont obstande
 L'cou Século à une vities orcealine. L'ou dinemente à milique hammadalque no convientent milique.

(s) La tempórtolar de Teau misgue no vario pos tecque la depasid de réglaga do la formpéniture des modifie.

7) Lesu extende sécondo fama la circult de forma ficial ou vice-versa.

6) La miliguar fremensatione est broyen.

6) La miliguar fremensatione est broyen.

) convient secure adoles avec to dead pour teur information. <u>Conselling au Citent servine in adoles avec to relate chaque pro con a secure and a convient and a militare receive verifie chaque pro con a securit.</u>

IMPORTANT

CASH ACME

Vides completionent is translated event citratific te Kangjurere. Il cet ESSENTET, que nobre se satiets saloni pargées de la luquelene senti de procedor à l'installation du milipour thomnostatique, Peur la plupart, de d'étilisée po d'estruit met such activité par le plupart, est définitée po d'estruit met such activité par les définitées por practionement de sup-altre sociétées par une d'étinge de citrait mat extocation.

Vikincias da Retebración: Vikincia de Stamatiole actual integradas a las ortendas de la valvula de agua catiente y agua lifa. Para una función segura y ciéctiva, parquirese de Lapo d ospodo de la vikinale seál limiso y sis reconnicas. Vocis la tuberta precisamente antes de la teadación de hearguard; Es formanenta por a budos de cele lare do todos los occombros antes de terales la valvais. No vociar ol sistema proceamente es la mayor cauca do Las follocades de sistema. La temperatura de agua calementar. La temperatura de agua calemente aumistrancia la valenda meccasiona debo ser al menos de 27 F mau alto quo el misemo requesido de la emperatura de agua calemente aumistrancia de valenda configurades por la despuía entre 115F y 120F de lemperatura de susta, con 150F de lemperatura de agua calemete de entrida. Review. When boose the partimetros del ambiente (presión, lemperatura, estalera) y compere con les consciencias técnicos de la valvida elegicia. Si las which esta boste accidente actual estales del la valvida elegicia. Si las accidentes del ambiente conscience accidentes del anticidente ambiente conscience accidentes del territorio del accidente del

resultar ets una ejecución insegura. Todas instalaciones deben cumplir con

No cumplir con todos aspectos do las instrucciones s recomendaciones relevantes del escatal, provincial y local.

2400 T* Ave S W Cullman, Alabama 35055 USA 1-877-700-4242 seles@casharre.com

74 Alex Avenus
Voughan, Ontario 141, 5X1
Conada
1-888-820-0120
contagadas@wc.com

Polnte à Verifier:

Mandre de production de paramèters de les distaistées : la presión, la températion, ent Comprons les données aux canderdistries d'un ministration de la contract product de paramèters de les prandres de la prandres de les prandres de la prandres d

Lo migrour hemocatique NE DOLT PAS éve repost à la chaleur durant l'installation, car cals pournit endemingue see composania interies. La migrour hemocatique NE DOLT PAS éve repost à un installation à vargeur mais installations parotronant unequament de frote. La migrour hemocatique NE DOLT PAS éve repost à us qu'. Si le militaur fremocatique dait (vire richalis dans un feur ayer, au gal. Il find dons empère un modifican issua rateural ain de principer oblus.

it. NE FALT PAS utilizer une quantità encoccave de material d'étanchibits pour joins diates, qu'il se présente zous forme liquide, de nében eu sous toute ouvre tourne toute forme, çer ce matérial pourrait nutre au fonctionnement du métiquer tremnestatique.

juna ia distituction dospada de temperatura del agua mista ol desagilo, el instalador dobe que quelar y verificar la temposatura al dezagil Instrucciones con caldado en la pógina siguiene.

ESPECIFICACIONES DE VÁLVULA MEZCLADORA
105 – 110°F (40.6 – 43.3°C)

95 - 118*F (35 - 48*C) 120 - 180*F (49 - 62*C) 200*F (80*C) 1

6.2 gailmin (23.5 Umin) 0.34 gailmin (1.3 Umin)

No upe excesso de sellador de toscos (en liquido, cinta y eita ferma) como esto podría llever la vávuta a fracesar.

Válvola No Dobo ser ospueda ol oder durante la indusción ya que el caser podel abance el interior de la valvola.
Válvola No Dobo entributada al sópera guminismos por vapor also sciemente di déterno de egan.
Válvola No Dobo entributada se ser auminismos por vapor also sciemente di déterno de egan.
Válvola No Dobo entrograpado, 3 il systous esse intuitada disorde haya posibilidad de conyelectón, un altaminismo debe ser apropado para preveni defer se válvola esse anticipado para preveni defer se válvola esse apropuedo para preveni

NOTE: Pour que fras misiço soit à la température désires à l'exitos de sortes, l'installatour dels régier et vérifier la temperature à la sorte en surant minulamement tos diectives fouriles sur la page sulvente.

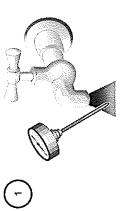
05 à 110°F.)	118°F)	180*F)	5		·	200		,		ns les tuyaux	Loan C	•
							,			terrestament - seed		
	,	****	` .	• • • •	 \	`\	\		2	Npheni		
ı									-			

15316 Rev -

MIXING VALVE TEMPERATURE ADJUSTMENT / RÉGULATION DE LA TEMPÉRATURE / AJUSTE DE TEMPERATURA DE LA VÁLVULA MEZCLADORA

Prior to so stating the varior of it is consistently the transportance of the contract of the

က



Using a hormometer, test the mixed vector temperature at the nearest outsit being supplied by the vector. This should be oppeated below, a relationship for zerie of 15 gpm (6 Liniti). Allow the varies of the right of the vector to run for at least from more divented than whether the settled.

Ubissant un thormonitio, vérifice la komputature de l'oau mitigleo su point da sortie le plus près de robbissers de mitter de sinte que l'étau et mitiguer. L'applicatio de distribueur des sorte que l'étau s'écoule au déteit d'au moire 6 finite, (1,5 gallent), Lobisserz leau s'écouler pendant au moins une des des manédant de l'étau mitigée se stabilise.

Usando un momenta amenina de imprementa de napar menta descapar nels contratos autrestados tendres de vides. Esto debo ser abeleto porto permitra el milinio caucido de 1,5 gem ((sUrmis), Permitro do regiona acuer por lo manos de un minuto para asegurar que la temperatura del agua milida se ha regiona acuer por lo manos de un minuto para asegurar que la temperatura del agua milida se ha regiona acuer por lo manos de un minuto para asegurar que la temperatura del agua milida se ha regiona acuer por lo manos de un minuto para asegurar que la temperatura del agua milida se ha regiona del como constitución del constitución del



To access the temperature adjustment mechanism, lift the knob off the valve body, using a flat had acrewdriver in the tab if needed.

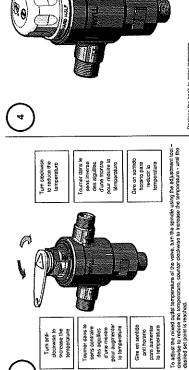
.

para aumentar la temparatura

Gire en sentido

Pour accéder su mocenismo de régisgo de la températuro, entevez le capuchen du miligour, utilissant une clé dans la coche si bosoin.

Paro user el mecanismo de ajuste de la temperatura, lavanto el mando do lo válvúa, usando un destemiliador en la muesca si es necesario.



Replace the knob to defor tampering.

Remettez le capuchen pour éviter les manipulations nen souhaitées Cambio el mando para disuadir a manipulación.

manufacturing defects for a parcel of 12 months, subject to the card

The Cash Aome Heatguard 11640 is guar

Cash Acme VALVE WARRANTY

Warranty Conditions and Exclusions

to magnor hermonalique Hodgaudd 1(6.C) do Tanbagrieo Clerh Acme est goment combo ted dódaul de (devication pour ever particles de douze (12) molis, souvir lessever less accessibles devenças activasous.

GARANTIE DU MITIGEUR OFFERTE PAR CASH ACME

Steal retent des contrôlems at des anclasses tripactes d'eleazon, les mitgreurs thembetisques de Carls Azon i planticipace pour par plantic de de carlo de control de control de carlo de carlo de carlo de control de carlo de control de carlo de ca

die Insiako confementen) auk sacommandellare du Les routileurs.
Les routileurs de les routiles des en pronders thaties d'en tonnes De par formatiques qui et avidate enclament un efectione et routileurs et de l'active de l'active de l'active de l'active de l'active de la partie de proposant de l'active de la partie de proposant de l'active de l'active de l'active de proposant de l'active de l'active

piscenteri serit val be carred cut a sei oui in the Cash Acren Warming abore, but the following passurates in piscenteri serit val be carried to a sei oui in the Cash Acren Warming abore, but the carried and acrea acrea and acrea and acrea acrea acrea and acrea 1. The voice must have been exhibited by a luminad and registered planters in accordance with the Clean femiliation functions and Application Guidelines (1. The voice must have been exhibited by a luminad femiliary of political inspansement in the State State of the Application of the state of the state

Allors de la garantio de Cach Acmo onon a gatantio seja nullo taxa les cas sulvanta t, une catastropho naturollo, un usaco a

chango. venici loss either directly or

тиненно вы выражно дели в Тейт компанско, ча черательно размента од оставова и семе од оставува име тековом, цара, тите, (осовлена од ром) оставува оставува бластенен се побластем размите.

Installed by / Installé par / Instalado por:_

Pressure at the valve / Pression au mitigeur thermostatique / Presión a la válvula;

Date / Date / Fechar

PSI / kPa Mix temperature / Température de l'eau mitigée / Temperatura mixta:_

٦, /ع.

Para ajustar la temparatura mixta de la salida de la valvuda, gire el ejo usando la herramienta de jausta – em sendio horculo ano reducir la temposatura, en entido sinti horcin pura ammentar la temposatura, entidos sinti horcin pura ammentar la temposatura – hasta que se obtere el puto de guiste desirado. Pour régior la température de teau à la sorte du mâgaur thomostatique, il faut fourner la tige en tilistant fruid de Maggies en sent trontle pour zhaksant la température ou duns la sents antistant pour augmenter la fempérature.

El Hoalgsond 119.0 de Cash Acmo Beve gampilis sin defecto de fabricación por 12 moses, sulleto a las

GARANTÍA

Cosh Acmo garantia de Valvola

Sujato a las candicienes de gunantis e escuelares establacidas holo Calah Acma vahvulas son spiral. 12 meses de harcoaminary y Casa Acma recursor accionato actualidas ouglis for eschalica. Acma, el vendador asamba lada responsabilidad del producto y no linea cualcidade do Cash Acma el Las barrelicios de la garantia outas incarporados e los detechos y remedios que el compredor punde Las barrelicios de la garantia outas incarporados e los detechos y remedios que el compredor punde

Confidence:

Confi

Condiciones de garantie y exclusiones

defectueuse du pircest d'eau chaude auquel la

IS316 Rev -



Transmittal

PROJECT:	New Dormitories Booneville Huma	an Develo		SMA PROJECT NO:						
	Booneville, Arka	nsas		DATE:	January 25, 2023					
TO:	Alessi Keyes Co 10623 Maumelle North Little Rock	Blvd.		If enclosures are not a inform us immediately If checked below, plea	' .					
ATTN:	Charley Dawson				eceipt of enclosures.					
WE TRANSI	ИIT:									
_	X Herewith		Under separate cover							
[Courier Overnight delivery		Mail Fax	E-mail X Other						
FOR YOUR: [THE FOLLO	Approval/Action Review & comment		Information X Use	Use as requeste	bed					
	Drawings X Submittals Change Order		Specifications Proposal Request Samples	X Digital Files - Pl Digital Files - O Other						
COPIES	DATE	REV. NO.		DESCRIPTION	ACTION CODE					
1	1/23/2023		Commercial Lavatories		В					
	A. No action required B. Action indicated on item to	ransmitted	C. For signature and return to D. For signature and forwardin		E. See REMARKS below					
REMARKS Fixture L-1										
COPIES TO:		(with enclosures)							
Rex Morris	s, Morris AE		X □ By: Trey T	assin						

401 W. CAPITOL, SUITE 402 LITTLE ROCK, AR 72201 PHONE 501-370-9207 FAX 501-370-9208 www.stocksmann.com



SUBMITTAL SHEET

Alessi Keyes Construction Co. AKC-505 - Booneville HDC New Dorm

Project:AKC-505Spec Section Num:22 42 16Booneville HDC New DormSubmittal:22.16

Revision: 0
Package: Plumbing

Date: 1/19/2023 UTC

Submittal Title: Commercial Lavatories

Submittal Detail:

Response Due By: 2/15/2023 UTC

Contractor:	Contractor's Stamp	_
Charley Dawson		
Alessi-Keyes Construction Co.		

Architect: Trey Tassin Stocks-Mann Architects

Architect's	Stamp			

Response: Comment:



Bernhard TME, LLC - Engineering Division

Submittal Comment Sheet

To: Randy Stocks, Stocks-Mann Architects

From: Rob Adams, BTME Date: April 25, 2023

Project: Booneville HDC New Dorm (Bldg #6)

Project # 01-20-0003

Ref: 22 42 16.13-01 Commercial Lavatories PR-02 Faucet Submittal (#22.16B)

Submitted By: Alessi Keyes Construction

Below find our response for the submittal received on Monday April 10, 2023.

1. L-1 APPROVED

- End of Submittal Comments -

THIS REVIEW PERFORMED BY BERNHARD TME, LLC, IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION PROVIDED IN THE CONTRACT DOCUMENTS. CORRECTIONS OR COMMENTS MADE ON THE SUBMITTAL AND/OR SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS, AND OTHER CONTRACT DOCUMENTS. APPROVAL OF A SPECIFIC ITEM SHALL NOT INDICATE AN APPROVAL OF AN ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING: ALL QUANTITIES; CONFIGURATION OF COMPONENTS; DIMENSIONS TO BE CONFIRMED AND CORRELATED AT THE JOBSITE; INFORMATION THAT PERTAINS SOLELY TO THE FABRICATION PROCESS OR TO THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION; COORDINATION OF THE WORK WITH THAT OF ALL OTHER TRADES; AND, FOR PERFORMING ALL WORK IN A SAFE AND SATISFACTORY MANNER.

APPROVED

L-1 LAVATORY
WHITEHALL WH3776L/R CORNER BASIN
T&S B-0890-VRS-B-0199-08-F12 FAUCET
WHST70-12 TEMPERING VALVE
Z8802LK SUPPLY AND STOPS
Z8700PC 1-1/4" CAST BRASS P-TRAP
ZURN Z1224-5 LAVATORY CARRIER



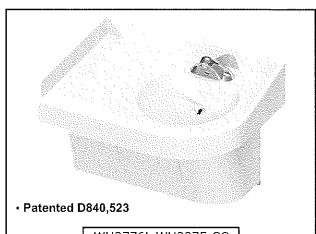


A MEMBER OF



Whitehall Ligature Resistant Corterra[®] Corner Basin ADA Compliant

Model WH3776L WH3776R



WH3776L-WH3375-SO

Fixture May Show Some Available Options

Ligature Resistant Corterra® Corner Basin is engineered to combine the look and feel of commercial grade designer basins and countertops with durability and economy in mind. Each standard height Washbasin complies with ANSI, UFAS, and ADA requirements. Compliance is subject to the interpretation and requirements of the local code authority.

Countertop and Basin color furnished is Blanco Matte (White). Basin includes ligature resistant side splashes, overflow, grid strainer, waste piping and 1-1/2" P-Trap.

Optional Ligature Resistant Faucet (WH3375-SO shown) is available. See Individual BestCare Specification Sheets for 4" Centerset Faucet.

Optional Mixing Valve WHST70-12 delivers tempered water flow by compensating for pressure and temperature fluctuations and is ASSE 1070 compliant. Valve is to be field set to 105° Fahrenheit and includes strainers and integral checks. Operating range is 30 PSI to 100 PSI.

Enclosure conceals P-trap and optional valve assembly and is fabricated from 18 gage, type 304 stainless steel includes an access panel and is powder coated white.

GUIDE SPECIFICATION

Ligature Resistant Corterra® Washbasin. Unit with 34" standard rim height to conform with ANSI, UFAS and ADA Accessibility Standards. Provide integral "D" Shaped basin with an integral, rear overflow. Basin, countertop, backsplash and sidesplash to be constructed of Corterra® solid surface polymer resin and is Greenguard Gold listed. P-Trap enclosure to be constructed of heavy gage, type 304 stainless steel and powder coated white.

Please visit www.whitehallmfg.com for most current specifications.













MODEL NUMBER AND OPTIONS SELECTION:

BASE MODEL NUMBER

☑ WH3776L ☑ WH3776R Ligature Resistant Corterra® Corner Basin, Left Corner

Ligature Resistant Corterra® Corner Basin, Right Corner

VALVE SELECTION

See Individual BestCare Specification Sheets for 4" Centerset Faucet

PRODUCT OPTIONS

☐ -MC

Mounting Carrier

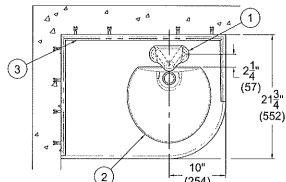
☑ -WHST70-12

Tempering Valve With Integral Mounting Feet Brass Body With 1/2" NPT Connections

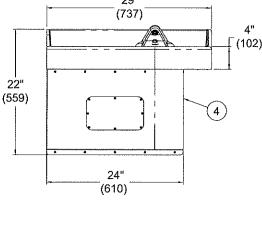
□ -0CC

Optional Corterra® Color - Specify

(Refer to https://www.whitehallmfg.com/product.aspx?ProductId=982 for available colors)

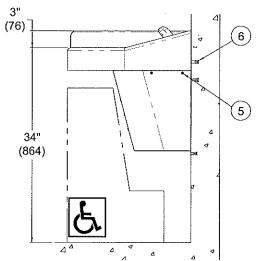


2 (254)29"



NOTES:

- 1. Ligature Resistant Sensor Activated Faucet (Optional)
- 2. D-Shaped Bowl
- 3. Back/Side Splash
- 4. Ligature Resistant Bottom Enclosure With Access Panel
- 5. Tamper Resistant Screws
- 6. Wall Anchoring Hardware (By Others)



MODEL# WH3776L-WH3375-SO

DISCLAIMER:

This product is designed to decrease the probability that it may be utilized as an apparatus for ligature. It is not a replacement for professionals who are trained in the proper evaluation, management and supervision of persons at risk of suicide.

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

All dimensions are nominal and subject to manufacturer's change without notice. Whitehall assumes no responsibility fo use of void or superseded data @ Whitehall Manufacturing, Member of Morris Group International. Please visit www.whitehallmfg.com for most

SELECTION SUMMARY & APPROVAL	FOR MANUFACTUI	RING
Model Number & Options		Quantity
Company		Date
Contact	Title	
Approval for Manufacturing/Signature		

Whitehall Mfg. • P.O. Box 3527 • City of Industry, CA 91744 • (800) 782-7706 • (626) 968-6681 • Fax (626) 855-4862



Tempering Valve

Acorn Engineering Compar



A MEMBER OF

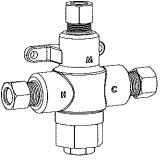


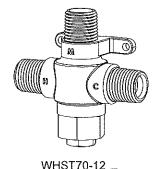
Model WHST70

Lead-Free Lavatory Tempering Valve With Integral Mounting Feet

APPLICATION:

The Acorn WHST70 is an ASSE 1070 certified, lead-free thermostatic tempering valve that protects against dangerously hot water in any commercial sink or lavatory application. This valve can be used with any type of faucet for maximum flexibility and can accommodate a single lavatory or up to 8 hand washing stations having a 0.5 gpm flow rate.





WHST70-38

Patent #9,989,017

FEATURES:

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

SPECIFICATIONS:

Valve Specifications:

Maximum Operating Pressure: 125 PSI (861 kPa)

Flow Rate @ 45 psi (310 kpa) differential:

WHST70-12: 4.5 GPM (17 LPM) WHST70-38: 4.0 GPM (15 LPM)

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

Maximum Hot Water Temp: 180°F (82°C)

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

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

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

WHST70-12

44110110	12							
PRESSURE DROP PSID (kPa)	Cv	5 (34)	10 (69)	15 (103)	20 (138)	30 (207)	45 (310)	60 (414)
FLOW RATE GPM (LPM)	0.7	1.5 (5.7)	2.1 (8)	2.6 (9.8)	3 (11,4)	3.7 (14)	4.5 (17)	5.2 (19.7)

WHST70.38

VVI 13 1 / U*	30							
PRESSURE DROP PSID (kPa)	Сv	5 (34)	10 (69)	15 (103)	20 (138)	30 (207)	45 (310)	60 (414)
FLOW RATE GPM (LPM)	0.6	1.3 (5)	1.9 (7.1)	2.3 (8.7)	2.7 (10)	3.3 (12.4)	4 (15)	4.6 (17.5)

^{*} In accordance with ASSE 1070 as certified by IAPMO

GUIDE SPECIFICATION:

The lavatory tempering valve shall be IAPMO lab certified per ASSE 1070 at 0.25 GPM (1.0 LPM) and CSA standards and shall have a solid brass body with corrosion resistant internal components. It shall include integral checks with screens to prevent backflow and to filter debris from entering the valve. Temperature adjustment shall be made using an allen wrench and a locknut on the bonnet to prevent unauthorized or accidental temperature adjustment. Valve shall provide 4.0 GPM (15 LPM) with 3/8" compression connection and 4.5 GPM (17 LPM) capacity with the 1/2" NPT connection at 45 psi (310 kPa) differential. Temperature range shall be 85°F-115° F (29°C-46° C). Valve shall be Whitehall model WHST70.

Please visit www.whitehallmfg.com

Complies with the following standards







^{**} Under Normal Operating Conditions

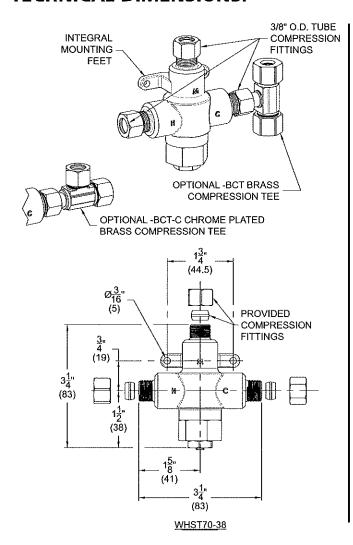
The wetted surface of these valves contacted by consumable water contains less than 0.25% of lead by weight in conformance with national lead free law.

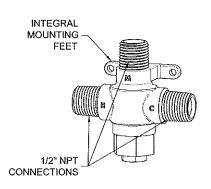
Tempering Valve

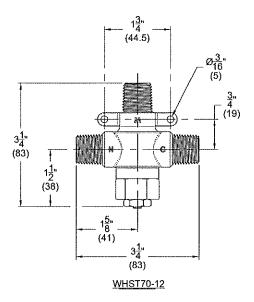
VALVE SELECTION:

- ☐ WHST70-12 Brass Valve Body With 1/2" NPT Connections
- ☐ WHST70-38 Brass Valve Body With 3/8" Compression Connections

TECHNICAL DIMENSIONS:







All dimensions are nominal and subject to manufacturer's change without notice. Whitehall assumes no responsibility fo use of void or suspended data @ Whitehall Manufacturing, Member of Morris Group International. Please visit www.whitehallmfg.com for most current specifications.

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

Medical and Lavatory Faucets

•

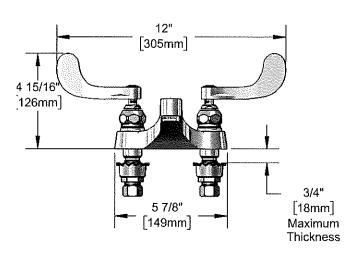
TAG:

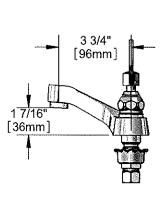
Centerset Lavatory Faucet

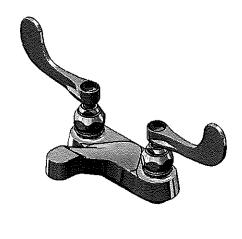
Architect/Engineering Specifications:

4" centerset deck mount mixing faucet with polished chrome plated brass body and integral spout, 2.2 GPM vandal resistant aerator, compression cartridges with spring checks, 4" wrist action handles, vandal resistant screws and 1/2" NPSM male inlets. Certified to ASME A112.18.1/CSA B125.1, NSF 61-Section 9 and NSF 372. Meets ADA ANSI/ICC A117.1 requirements.

B-0890-VRS







Features & Benefits:

- 4" centerset deck mount mixing faucet w/ polished chrome plated brass body and integral spout
- 2.2 GPM vandal resistant aerator, Series 8 (B-0199-08)
- Quarter-turn Eterna compression cartridges w/ spring checks to prevent cross flow of water
- 4" wrist action handles w/ color coded indexes
- · Vandal resistant screws
- 1/2" NPSM male inlets w/ coupling nuts
- Material: Polished chrome plated brass body & spout and chrome plated metal handles

Product Compliance:

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

Warranty: One Year (Limited)







Performance Data:

Pressure: 20 - 125 psi
Temperature: 40 °F - 140 °F
Flow Poto: 2.2 GPM @ 50 p

Flow Rate: 2.2 GPM @ 60 psi

Optional Handles

Optional Outlets (Series 3 / VR Series 8)

GPM	Aerated	Non-Aerated (Laminar)	VR Aerated	VR Non-Aerated (VR Laminar)	☐ 4" Wrist Action (Standard) ☐ Lever ☐ 4-Arm
0.35	N/A	□ B-0199-03-N035	N/A	□ B-0199-08-N035	Optional Cartridges
0.5	N/A	□ B-0199-03-N05	N/A	□ B-0199-08-N05	•
1.0	N/A	N/A	N/A	□ B-0199-08-LF10	□ Quarter Turn Cerama w/ Check Valve
1.2	□ B-0199-03-F12	N/A	₩ B-0199-08-F12	N/A	☐ Quarter Turn Eterna w/ Spring Check (Standard)
1.5	□ B-0199-03-WS	N/A	□ B-0199-08-WS	□ B-0199-08-LF15	☐ Push Button Metering
2.2	□ B-0199-03	□ B-0199-26	Standard	□ B-0199-28	☐ Pivot Action Metering
-					☐ Wrist Action Metering

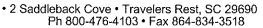






T&S BRASS AND BRONZE WORKS, INC.





• Simi Valley, CA • Ph 800-423-0150 • www.tsbrass.com

Date: 08/06/18





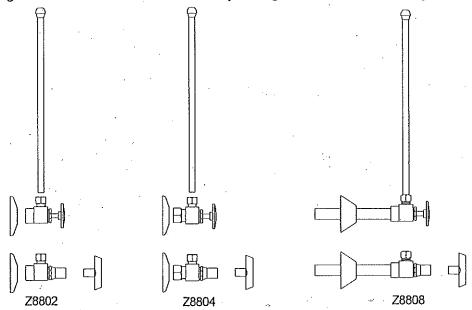
STANDARD STOP WITH FLEXIBLE LAVATORY SUPPLY

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

TAG

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

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



	PRODUCT		No. of the	MASTER	WEIGHT CARTON		
	NUMBER	CONNECTIONS	EXT.	CARTON	LR	LRLK	
_	Z8802-XL-LR-PC	1/2 [13] IPS x 3/8 [10]OD	-	25	24		
	Z8802-XL-LRLK-PC	1/2 [13] IPS x 3/8 [10] OD	1	25		25	
	Z8804-XL-LR-PC	1/2 [13] NOM x 3/8 [10] OD	_	25	24		
	Z8804-XL-LRLK-PC	1/2 [13] NOM x 3/8 [10] OD	-	25		25	
	Z8808-XL-LR-PC	, 1/2 [13] SWT x 3/8 [10] OD	5	25	28		
	Z8808-XL-LRLK-PC	1/2 [13] SWT x 3/8 [10] OD	5	25		33	

SUFFIXES 1

36

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

36[914] Supply Tube

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

*REGULARLY FURNISHED UNLESS OTHERWISE SPECIFIED



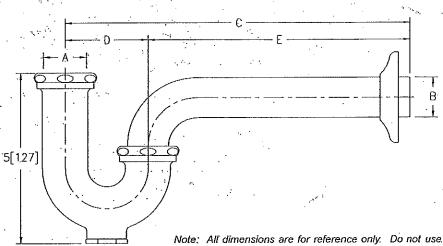
SEMI-CAST P-TRAPS WITH WALL BEND

Z8700-PC TO Z8708-PC

~~	-Λ	\sim
	A	(-7
L	, ,	\sim



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.

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

OPTIONAL ACCESSORIES -

	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
	BX CE D J WC 15

** 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



Z1224-5 RIGID SYSTEM FOR WHITEHALL CO. CORNER LAVATORIES

DIMENSIONAL DATA (INCHES [MM]) SUBJECT TO MANUFACTURING TOLERANCES AND CHANGES WITHOUT NOTICE

,			66955-049 14861-073 14858-006 14850008	- 3 [76] - 3 [76] - 14 [32] - 10 RIM (OPTIONAL) - 32 [89] - 42 [114]
	I	42 [1067]		
	L	26 <u>4</u> [667]	SPECIAL HARDWARE: (2) BAG #49 (6) §" STUDS (18) §" WASHERS (24) §" NUTS	•
	Ш	19 [483]	SPECIAL (2) BA (6) BA (18) SW (18) SW (18) SW (24) SW (24) SW (24)	⊕ ⊕ ⊕ ERONT VIEW
ENCE	٦	5 <u>1</u> [140]		FRON
REFERENCE	۵	9 [229]	FINISHED	FINISHED
ZURN	ပ	34 [864]	56289-028	L LOS
	æ	32 3 [832]	P.N. 5628(
	N ₁	17 [432]	RICHT	SS 183] — 13 [44] — 22 [64] — 14 [44] — 15 [64
	A	24 [610]	UPRIGHTS: (4) 42-UPRIGHT -3 5	HANGERS FURNISHED W/FIXTURE
ENCE	SIZE	29 X 21 3 [737 X 552]	및 <i>4</i>)	₹2 ≥
HALL CO. REFERENCE	CATALOG NO.	WH3776L	P.N. 323110-001 323110-002 TOP VIEW	
WHITEHALL	NAME	CORNER LAVATORY	2	- 4 ³ [120] MAX.*
(1	HANGER PLATES: (1) TOP PLATE (1) TOP PLATE	

*WITH STANDARD STUD LENGTH OF 6 [152] -SL (SPECIFY WALL THICKNESS FOR LONGER STUDS) ENGINEERING SPECIFICATION: AS SHOWN; "DURA-COATED" STEEL STANCHIONS WITH WELDED FEET, ADJUSTABLE SUPPORT PLATES, AND MOUNTING BOLTS AND TRIM.

DATE: 04/22/20 Z1224-5
REV. A DRAWING NUMBER
C.N. NO. 142612 323111



Submittal Comment Sheet

To: Randy Stocks, Stocks-Mann Architects

From: Rob Adams, BTME Date: January 23, 2023

Project: Booneville HDC Building #6

Project # 01-20-0003

Ref: 22 4216.13-1 Commercial Lavatories Submittal

Submitted By: Alessi Keyes Construction



Below find our response for the submittal received on Wednesday January 18, 2023.

4		DEVICE AND DECUDART
1.	L-1	REVISE AND RESOBNIT
	-a.	WH3377 Ligature Resistant faucet with Hot and Cold buttons.
2.	L-2	APPROVED
3.	L-3	APPROVED

- End of Submittal Comments -

THIS REVIEW PERFORMED BY BERNHARD TME, LLC, IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION PROVIDED IN THE CONTRACT DOCUMENTS. CORRECTIONS OR COMMENTS MADE ON THE SUBMITTAL AND/OR SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS, AND OTHER CONTRACT DOCUMENTS. APPROVAL OF A SPECIFIC ITEM SHALL NOT INDICATE AN APPROVAL OF AN ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING: ALL QUANTITIES; CONFIGURATION OF COMPONENTS; DIMENSIONS TO BE CONFIRMED AND CORRELATED AT THE JOBSITE; INFORMATION THAT PERTAINS SOLELY TO THE FABRICATION PROCESS OR TO THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION; COORDINATION OF THE WORK WITH THAT OF ALL OTHER TRADES; AND, FOR PERFORMING ALL WORK IN A SAFE AND SATISFACTORY MANNER.



Quality People. Building Solutions.

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

Date: 12/1/2022

Return Request: 12/11/2022

Project: New Dormitories – Bldg. 6 Supplier: Little Rock Winnelson

Manufacturer: Various

Submittal: Commercial Lavatories **Submittal Number: 22 42 16.13-01**

Drawing # and Installation: Plumbing Drawings

ARCHITECT

Stocks Mann Architects 401 W. Capitol, Suite 402 Little Rock, AR 72201 501-370-9207

GENERAL CONTRACTOR

Alessi Keyes Construction 10623 Maumelle Blvd. N. Little Rock, AR 72113 501-225-6699

ENGINEER

Bernhard TME 1 Allied Drive #2600, Building 2 Little Rock, AR 72202 501-666-6776

MECHANICAL SUBCONTRACTOR

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

Notes:									

CSUSA PROJECT NO. 22-102

jon@comfortar.com

ALESSI KEYES CONSTRUCTION
REVIEWED FOR GENERAL COMPLIANCE
WITH CONTRACT DOCUMENTS

Charley Dawson 1/19/2023

L-2 LAVATORY
AM. STANDARD 0476.028 OVAL LAVATORY
T&S B-2711-VF05 FAUCET
Z8746PC 1-1/4" OFFSET GRID DRAIN
Z8802LK SUPPLY AND STOP
Z8700PC 1-1/4" CAST BRASS P-TRAP
CASH ACME 24525 THERMOSTATIC MIXING VA;LVE

Aqualyn® Countertop Sink

- · Made from vitreous china
- Self-rimming with cutout template supplied
- · Front overflow
- Faucet ledge
- □ 0475.020 Faucet holes on 8" (203mm) centers (illustrated)
- ☐ 0475.920 Faucet holes on 8" (203mm) centers Less overflow
- **0476.028** Faucet holes on 4" (102mm) centers
- □ 0476.037 Faucet holes on 4" (102mm) centers
 - Extra right-hand hole
- □ 0475.035 Faucet holes on 4" (102mm) centers
 - Extra left-hand hole
- **0476.928** Faucet holes on 4" (102mm) centers
 - Less overflow
- □ **0475.047** Center hole only

Nominal Dimensions:

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

Bowl sizes:

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

Compliance Certifications -Meets or Exceeds the Following Specifications:

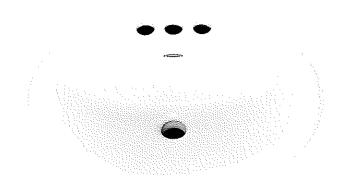
 ASME A112.19.2M for Vitreous China Fixtures

To Be Specified:

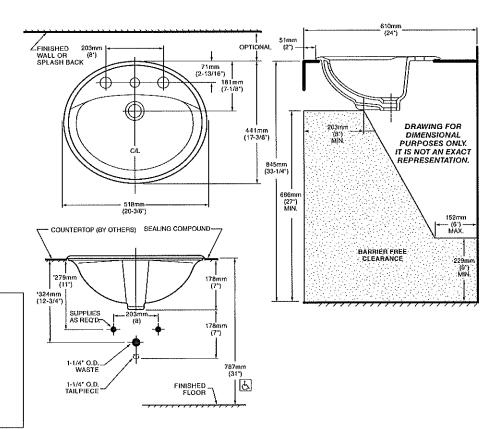
- ☐ Color: ☐ White ☐ Bone
 - ☐ Linen
- □ Faucet*:
- ☐ Faucet Finish:
- Supplies:
- ☐ 1-1/4" Trap:

MEETS THE AMERICANS WITH DISABILITIES ACT GUIDELINES AND ANSI A117.1 ACCESSIBLE AND USABLE **BUILDINGS AND FACILITIES - CHECK LOCAL CODES.** Install lavatory 864mm (34") from finished floor.

Lavatory installed 51mm (2") minimum from front edge of countertop provides 686mm (27") knee clearance area.



SEE REVERSE FOR ADDITIONAL ROUGHING-IN **DIMENSIONS**



NOTES:

* DIMENSIONS SHOWN FOR LOCATION OF SUPPLIES AND "P" TRAP ARE SUGGESTED.
FOR COUNTERTOP CUTOUT AND INSTALLATION INSTRUCTIONS USE

TEMPLATE SUPPLIED WITH SINK.
FITTINGS NOT INCLUDED WITH FIXTURE AND MUST BE ORDERED SEPARATELY.

SEALING COMPOUND SUPPLIED BY OTHERS.

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

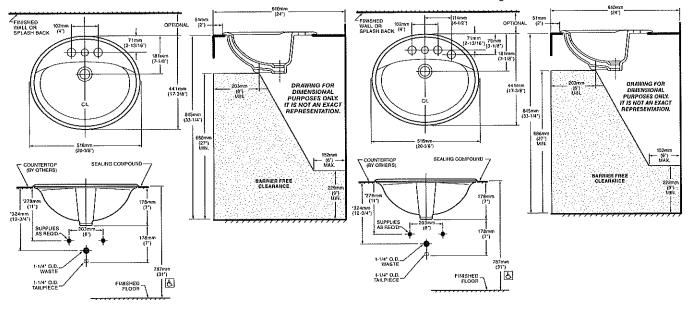
© 2020 AS America Inc.

^{*} See faucet section for additional models available

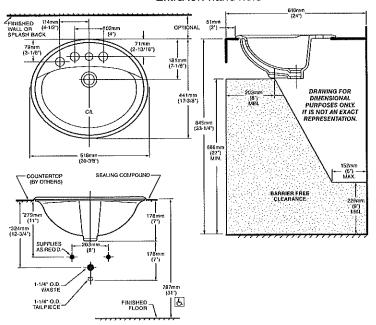
BARRIER FREE

0476.028 Faucet holes on 4" (102mm) centers

0476.037 Faucet holes on 4" (102mm) centers · Extra right-hand hole



0475.035 Faucet holes on 4" (102mm) centers Extra left-hand hole





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

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

SEALING COMPOUND SUPPLIED BY OTHERS.

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



T&S BRASS AND BRONZE WORKS, INC.

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

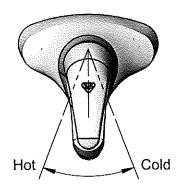
B-2711-VF05

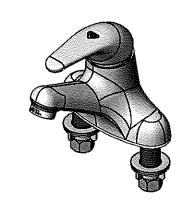
Item No.

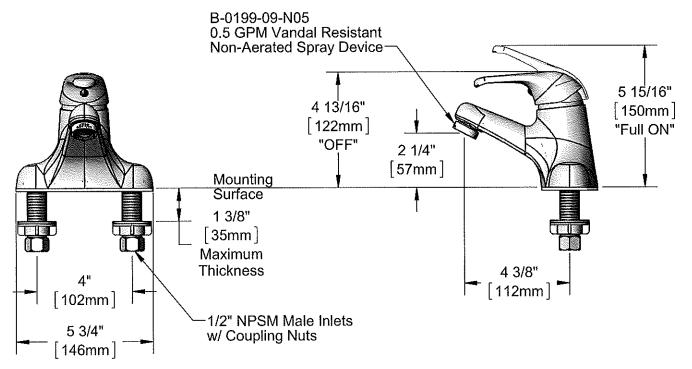
Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com

	6	
ADA	Comp	oliant

This Space for Architect/Engineer Approval							
Job Name	Date						
Model Specified	Quantity						
Customer/Wholesaler							
Contractor	MMM-4						
Architect/Engineer							







Rough-In Requirement: (2) Ø1" [25mm] Mounting Holes

Product Specifications:

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

Product Compliance:

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

												_
Drawn:	DMH	Checked:	JRM	Approved:	JHB	Date:	07/23/16	Scale:	1:4	Sheet: 1	1 of 2	2



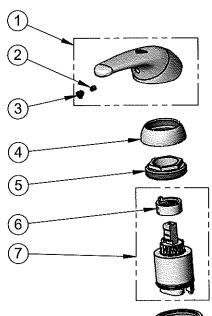
T&S BRASS AND BRONZE WORKS, INC.

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

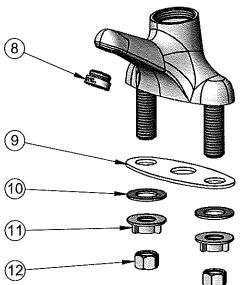
B-2711-VF05

Item No.

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



	, 4,4, 44, 44, 44, 4	111111111111111111111111111111111111111
ITEM NO.	SALES NO.	DESCRIPTION
1	013113-45	Single Lever Short Handle
2	016675-45	Set Screw
3	014173-45	Index, Temperature
4	016661-45	Trim Ring
5	016663-45	Locking Nut
6	015400-45	Temperature Limit Stop
7	013111-45	Ceramic Cartridge w/ Temperature Limit Stop
8	B-0199-09-N05	0.5 GPM VR Spray Device, 15/16-27 Male w/ Key
9	014167-45	Deck Gasket
10	000999-45	Brass Lock Washer
11	016673-45	Shank Nut
12	000958-20	Coupling Nut
	-	





Product Specifications:

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

Product Compliance:

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

Drawn:	DMH	Checked:	JRM	Approved:	JHB	Date:	07/23/16	Scale:	NTS	Sheet:	2 of	2



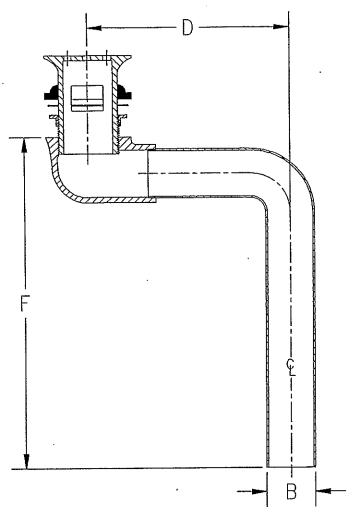
OFFSET LAVATORY STRAINERS ADA COMPLIANT

Z8746-PC

TAG		



Engineering Specification: Zurn Z8746-PC – Chrome plated cast brass open grid drain strainer, and chrome plated cast brass elbow. Furnished with 1-1/4[32] 17 gauge, chrome plated tubular brass offset tailpiece for sink depth to 2-1/2[57].



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

	PRODUCT	В	DIMEN	ISIONS	MASTER	WEIGHT
	NUMBER	OUTLET	D	F	CARTON	CARTON
00021750	Z8746-PC	1-1/4[32]	5-1/8[130]	8-3/4[222]	24	40

OPTIONAL ACCESSORIES

Suffix

Description

___-NOF

No Overflow

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

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

Date: 8/12/10





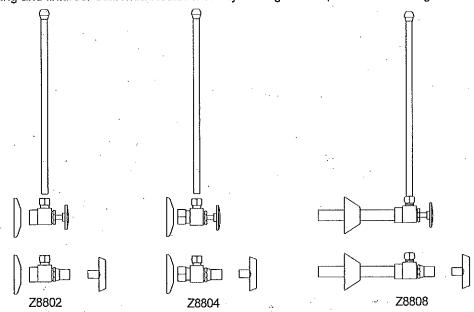
STANDARD STOP WITH FLEXIBLE LAVATORY SUPPLY

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

TAG

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

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



	PRODUCT		4.8	MASTER	WEIGHT CARTON		
*	NUMBER	CONNECTIONS	EXT.	CARTON	LR	LRLK	
	Z8802-XL-LR-PC	1/2 [13] IPS x 3/8 [10]OD	-	25	24		
	28802-XL-LRLK-PC	1/2 [13] IPS x 3/8 [10] OD		25		25	
	.Z8804-XL-LR-PC	1/2 [13] NOM x 3/8 [10] OD	-	25	24		
	Z8804-XL-LRLK-PC	1/2 [13] NOM x 3/8 [10] OD	-	25		25	
ĺ	Z8808-XL-LR-PC	, 1/2 [13] SWT x 3/8 [10] OD	5	25	28		
	Z8808-XL-LRLK-PC	1/2 [13] SWT x 3/8 [10] OD	5	25		33	

SUFFIXES

 - A	Single supply option
 - C1	Standard Line Lock Shield Cap
 ~=	Observe District On at Dance Ch

-CE Chrome Plated, Cast Brass, Flange with setscrew

- D Chrome Plated Steel, Deep Bell Flange (Bell Type)

WD Wrought Brass, Deep Flange, (Bell Type)

- XP Cross Handle

AND FROM THE PROPERTY OF THE PROPERTY OF THE

- **15** 15[381] Supply Tube

- 20 20[508] Supply Tube

- **30** 30[762] Supply Tube

- **36** 36[914] Supply Tube

*REGULARLY FURNISHED UNLESS OTHERWISE SPECIFIED

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

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



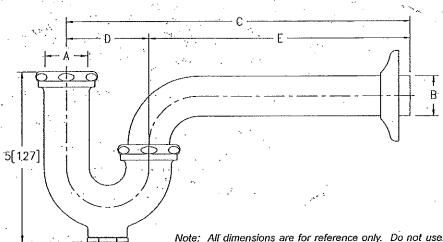
SEMI-CAST P-TRAPS WITH WALL BEND

Z8700-PC TO Z8708-PC

TAG



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



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

		•	*						
ſ	PRODUCT	Α	В		D	IMENSION	IS	MASTER	
	NUMBER	INLET in[mm]	OUTLET in[mm].	GAUGE	· C in[mm]	D in[mm]	E in[mm]	CARTON	CARTON [lbs]
	Z8700-PC	1 1/4[32]	1 1/4[32]	17	10[254]	2 1/2[64]	7 1/2[191]	12	24
1	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
Ī	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
Ī	Z8702-9-PC*	1 1/2[38]	1 1/2[38]	17	£ 12[305]	3[76]	9[229]	12	24
ľ	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
ľ	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

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

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

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



Heatguard® 145 Series-Lead Free

DESCRIPTION

The **Heatguard® 145** is a compact Thermostatic Mixing Valve that mixes hot water with cold to deliver tempered water at a constant temperature.

The **Heatguard**[®] **145** is specifically intended for use in conjunction with individual faucets and electronic sensor faucets.

The **Heatguard® 145** is a compact, high specification product incorporating the latest in Thermostatic Technology. It features a robust design based on the expertise gained from years of experience in the design and manufacture of safety valves. Every valve is tested for performance on an automated testing station during the assembly process. The valve is third-party listed for individual point-of-use applications.

The **Heatguard**® **145** features a rapid response thermostatic element for superior control. The thermostatic element senses the outlet water temperature and reacts to maintain a constant delivery temperature even under changing flows or variations in supply temperatures or pressures. It provides stable operation at flow rates as low as 0.34 gpm (1.3 l/min). The valve also reduces the outlet flow to a trickle in the event of a cold water supply failure.

The **Heatguard® 145** features a snap-on cover over a spindle mechanism that requires a special tool to adjust the temperature. The special tool is provided with each valve.

The **Heatguard® 145** has inlet connections to suit a 3/8" flexible hose connector or a compression connection to 3/8" OD tube. Also available with cold water bypass and elbow insert fittings. Supplied standard with integral check valves on both inlets to prevent cross-flow.



Compact design:

Easily fits under or behind a single basin.

Accurate temperature control with flows as low as 0.34 gpm (1.3 l/min): Increased user comfort and convenience, (especially with sensor faucets).

Robust, low complexity construction:

Superior reliability, improved user safety.

Total flow shut-off if cold supply fails: Greater end user safety.

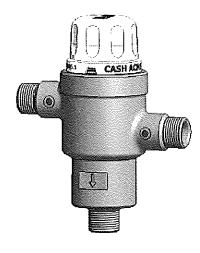
Listed by IAPMO, CSA, and ASSE: Inspector friendly, peace of mind!

Use with SharkBite®:

Easily connect to the riser with SharkBite® 1/4" fittings and stops.

SPECIFICATION

A Temperature Actuated Mixing Valve shall be installed at single point-of-use fixture to deliver hot water at a controlled temperature. The valve shall be certified to ASSE 1070 and CSA B 125.3 standards and third party listed. The temperature actuated mixing valve shall control the delivered water temperature via a regulating piston made from engineered polymer. The valve should have check valves at both inlets to prevent cross flow from hot to cold. The adjusting mechanism shall be protected by a snap-on cover. The valve shall be a Cash Acme **Heatguard® 145 LF**.



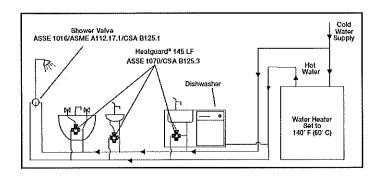


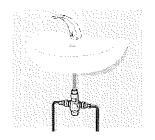


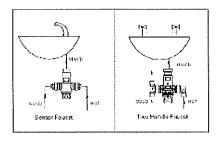
Heatguard® 145 Series-Lead Free

TYPICAL INSTALLATION

The **Heatguard® 145** is a high performance thermostatic mixing valve designed to deliver mixed water to a single outlet. It can also be used to supply sensor faucets or two handle manual faucets.







SPECIFICATION DATA

Performance:

95 - 118°F (35 - 48°C) Adj. outlet temperature range 104 - 110°F (40 - 43.3°C) Factory set temperature range 120 - 194°F (48.9 - 90°C) Temp. hot supply 39 - 85°F (3.9 - 30°C) Temp. cold supply 230 psi (1600 kPa) Maximum pressure 0.34 apm (1.3 l/min) Flow rate, minimum

Flow rate, maximum @ 45 PSI

Materials:

Body Bronze Stainless Steel **Springs** Internal cap Brass Engineered Polymer Piston

Guide tube

5.8 gpm (22 I/min)

Noryl GFN2)

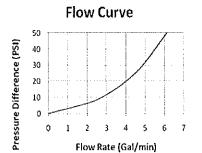
AVAILABLE CONNECTIONS

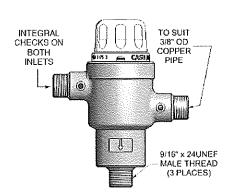
Compression

Suitable for 3/8" OD tube Also available with cold water bypass and elbow insert fittings.

CERTIFICATIONS

The Cash Acme Heatguard® 145 LF is certified to ASSE 1070, CSA B125.3, NSF 372, and listed by ASSE, CSA, and IAPMO for use in accordance with U.S. and Canadian plumbing codes.





L-3 LAVATORY
AM. STANDARD 0355.012 WALL HUNG LAVATORY
T&S B-2711-VF05 FAUCET
Z8743PC 1-1/4" GRID DRAIN
Z8802LK SUPPLY AND STOP
Z8700PC 1-1/4" CAST BRASS P-TRAP
CASH ACME 25687 THERMOSTATIC MIXING VALVE
ZURN Z1231 LAVATORY CARRIER



Lucerne™ **Wall-Hung Lavatory**

VITREOUS CHINA

Lucerne™ Wall-Hung Lavatory

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

Faucet holes on 203 mm (8") centers:

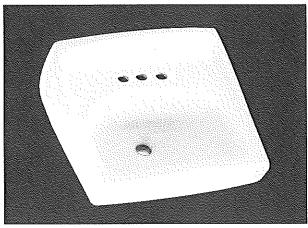
- □ 0356.028 For exposed bracket support (by others)
- □ 0356.015 For wall hanger (included) or concealed arms support (by others)
- □ 0356.915 For wall hanger (included) or concealed arms support (by others) less overflow
- **0356.037** For wall hanger (included) or concealed arms support (by others)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

Faucet holes on 102 mm (4") centers:

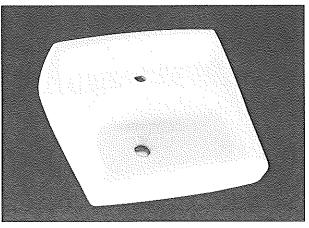
- ☐ 0355.027 For exposed bracket support (by others)
 - 0355.012 For wall hanger (included) or concealed arms support (by others)
- □ 0355.912 For wall hanger (included) or concealed arms support (by others) less overflow
- □ 0355.056 For wall hanger (included) or concealed arms support (by others) with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

Single center faucet hole:

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



0355.012



0356.041

SEE FOLLOWING PAGES FOR ROUGHING-IN DIMENSIONS

Compliance Certifications -Meets or Exceeds the Following Specifications:

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

Nominal Dimensions:

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

Bowl sizes:

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

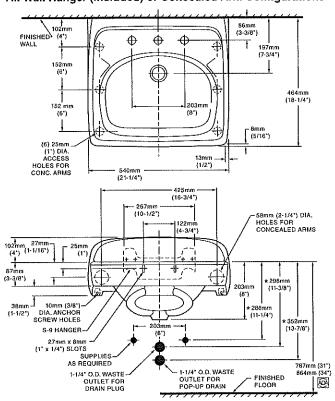
To Be Sperified: ☐ Color: ☐ White

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

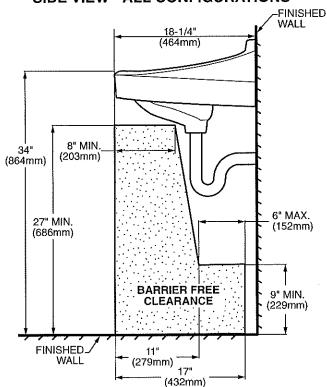
@ BARRIER FREE

VITREOUS CHINA

8" CENTER CONFIGURATIONS All Wall Hanger (included) or Concealed Arm Configurations

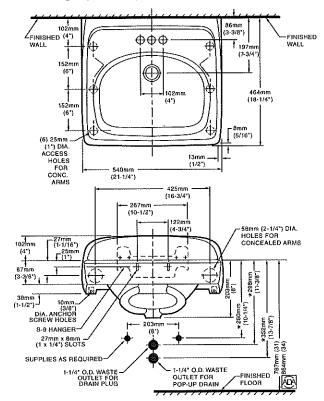


SIDE VIEW - ALL CONFIGURATIONS



4" CENTER CONFIGURATIONS

All Wall Hanger (included) or Concealed Arm Configurations



NOTES:

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

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

ÁDÀ

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

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



T&S BRASS AND BRONZE WORKS, INC.

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

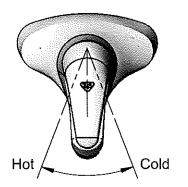
B-2711-VF05

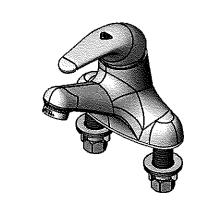
Item No.

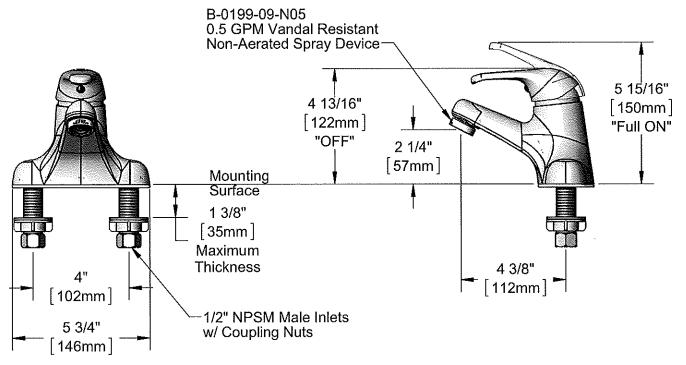
Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com

	6	
ADA (Com	oliant

This Space for Architect/Engineer Approval						
Job Name	Date					
Model Specified	Quantity					
Customer/Wholesaler	/					
Contractor						
Architect/Engineer						







Rough-In Requirement: (2) Ø1" [25mm] Mounting Holes

Product Specifications:

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

Product Compliance:

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

Drawn	: DMH	Checked:	JRM	Approved:	JHB	Date:	07/23/16	Scale:	1:4	Sheet:	1 of 2	2



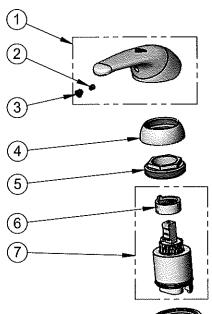
T&S BRASS AND BRONZE WORKS, INC. 2 Saddleback Cove / P.O. Box 1088 Travelers Rest, SC 29690

Model No.

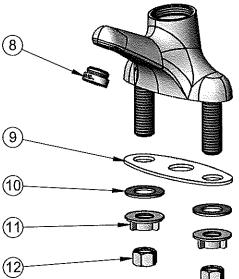
B-2711-VF05

Item No.

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



NO.	SALES NO.	DESCRIPTION
1	013113-45	Single Lever Short Handle
2	016675-45	Set Screw
3	014173-45	Index, Temperature
4	016661-45	Trim Ring
5	016663-45	Locking Nut
6	015400-45	Temperature Limit Stop
7	013111-45	Ceramic Cartridge w/ Temperature Limit Stop
8	B-0199-09-N05	0.5 GPM VR Spray Device, 15/16-27 Male w/ Key
9	014167-45	Deck Gasket
10	000999-45	Brass Lock Washer
11	016673-45	Shank Nut
12	000958-20	Coupling Nut





Product Specifications:

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

Product Compliance:

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

D	rawn:	DMH	Checked:	JRM	Approved:	JHB	Date:	07/23/16	Scale:	NTS	Sheet: 2 of	[2]

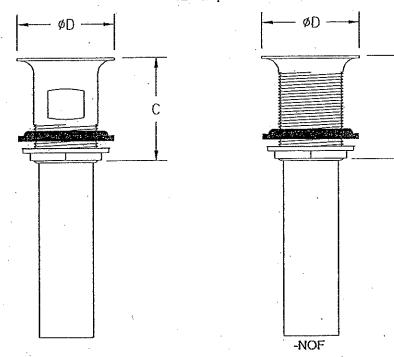


SOLID TOP, OPEN-GRID P.O. PLUGS

Z8743-PC

TA	G		
	_		

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



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

	PRODUCT NUMBER	TAILPIECE in[mm]	DIMEN Cin[mm]			WEIGHT CARTON
· METNEAD	>Z8743-PC	1 1/4[32]	2 9/16[65]	2 1/4[57]	50	50
	Z8743-1-PC	1 1/2[38]	2 9/16[65]	2.1/4[57]	30	30

OPTIONAL ACCESSORIES

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

ZURN INDUSTRIES, LLC + COMMERCIAL BRASS OPERATION + 2640 SOUTH WORK STREET + FALCONER NY 14733
Phone: 1-716-665-1132 + Fax: 1-716-665-1135 + World Wide Web: www.zurn.com

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





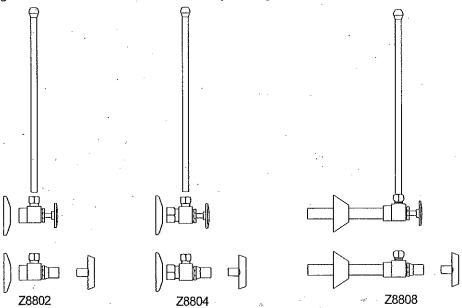
STANDARD STOP WITH FLEXIBLE LAVATORY SUPPLY

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

TAG

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

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



PRODUCT		No.	MASTER	WEIGHT CARTON	
NUMBER	CONNECTIONS	·EXT.	CARTON	LR	LRLK
Z8802-XL-LR-PC	1/2 [13] IPS x 3/8 [10]OD	-	25	24	
Z8802-XL-LRLK-PC	1/2 [13] IPS x 3/8 [10] OD	. .	25		25
Z8804-XL-LR-PC	1/2 [13] NOM x 3/8 [10] OD	-	25	24	
Z8804-XL-LRLK-PC	1/2 [13] NOM x 3/8 [10] OD		25		25
Z8808-XL-LR-PC	1/2 [13] SWT x 3/8 [10] OD	5	25	28	
Z8808-XL-LRLK-PC	1/2 [13] SWT x 3/8 [10] OD	5	25		33

SUFFIXES '

- A	Single supply option	
- C1	Standard Line Lock Shield Cap	
 -CE	Chrome Plated, Cast Brass, Flange with setse	crew
- D	Chrome Plated Steel, Deep Bell Flange (Bell 7	ype)
- WD	Wrought Brass, Deep Flange, (Bell Type)	
 - XP	Cross Handle	
 - 15	15[381] Supply Tube	
 - 20	20[508] Supply Tube	
 - 30	30[762] Supply Tube	
- 36	36[914] Supply Tube	*REGI

REGULARLYFURNISHEDUNLESSOTHERWISESPECIFIED

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

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



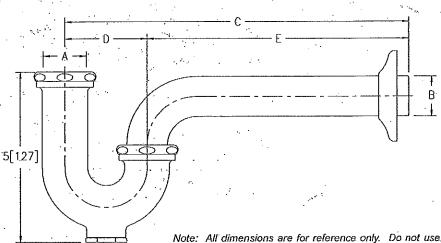
SEMI-CAST P-TRAPS WITH WALL BEND

Z8700-PC TO Z8708-PC

т	٦٨	
- 1	Н	U



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	· . · A · · ·	В		. •	IMENSION	IS .	MASTER	
J	NUMBER	(NLET in[mm]	OUTLET in [mm]	GAUGE	· C in[mm]	D in[mm]	E in[mm]	CARTON	CARTON [lbs]
	Z8700-PC	1 1/4[32]	1 1/4[32]	17	10[254]	2 1/2[64]	7 1/2[191]	12	24
1	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[3 <u>81]</u>	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
ĺ	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
Ī	Z8702-9-PC*	1 1/2[38]	1 1/2[38]	17	12[305]	3[76]	9[229]	12.	24
Ī	Z8702-15-PC*	1 1/2[38]	1 1/2[38]	1.7	15[381]	3[76]	12[305]	18	42
	.Z8703B-PC**	1 1/2[38]	2[51]	17	12 1/2[318]	3 1/2[89]	9[229]	6	18
ŀ	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
Ì	Z8708-PC*	1 1/2[38]	1 1/2[38]	20 .	10 1/2[267]	3[76]	7 1/2[191]	12	24
					1			1	

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
	5 1 4 2 TT 1	ODTIONAL A AIDE A AIAE DEDUCTION DOLVENACUED COD INILET

* 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

ryal cangott



Heatguard® 135 Series-Lead Free

DESCRIPTION

The Heatguard* 135 is a compact Thermostatic Mixing Valve that mixes hot water with cold to deliver tempered water at a constant temperature.

The Heatguard® 135 is specifically intended for use in conjunction with individual faucets and electronic sensor faucets.

The Heatguard® 135 is a compact, high specification product incorporating the latest in Thermostatic Technology. It features a robust design based on the expertise gained from years of experience in the design and manufacture of safety valves. Every valve is tested for performance on an automated testing station during the assembly process. The valve is third-party listed for individual point-of-use applications.

The Heatguard® 135 features a rapid response thermostatic element for superior control. The thermostatic element senses the outlet water temperature and reacts to maintain a constant delivery temperature even under changing flows or variations in supply temperatures or pressures. It provides stable operation at flow rates as low as 0.25 gpm (1.0 l/min). The valve also reduces the outlet flow to a trickle in the event of a cold water supply failure.

The Heatguard® 135 features a threaded cover over a spindle mechanism that requires a special tool to adjust the temperature. The special tool is provided with each valve.

The Heatguard® 135 has inlet connections to suit a 3/8" flexible hose connector or a compression connection to 3/8" OD tube. Also available with cold water bypass and elbow insert fittings. Supplied standard with integral check valves on both inlets to prevent cross-flow.

FEATURES AND BENEFITS

Compact design and included mounting bracket:

Fasily fits under or behind a single basin. Mounting b

Easily fits under or behind a single basin. Mounting bracket provides for a clean and secure installation.

Accurate temperature control with flows as low as 0.25 gpm (1.0 l/min): Increased user comfort and convenience, (especially with sensor faucets).

Serviceable inlet strainer screens included:

Keeps debris from damaging check valves and other internal components.

Robust, low complexity construction and total flow shut-off if cold supply fails: Superior reliability and greater end user safety.

Listed by IAPMO, CSA, and ASSE:

Inspector friendly, peace of mind!

Use with SharkBite®:

Easily connect to the riser with SharkBite® 1/4" fittings and stops.

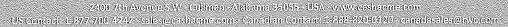
SPECIFICATION

A Temperature Actuated Mixing Valve shall be installed at single point-of-use fixture to deliver hot water at a controlled temperature. The valve shall be certified to ASSE 1070 and CSA B 125.3 standards and third party listed. The temperature actuated mixing valve shall control the delivered water temperature via a regulating piston made from engineered polymer. The valve should have check valves at both inlets to prevent cross flow from hot to cold. The adjusting mechanism shall be protected by a threaded cover. The valve shall be a Cash Acme Heatguard® 135.



25686





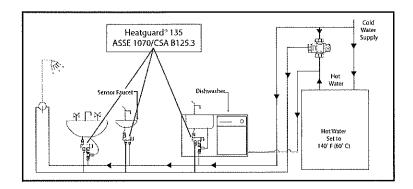




Heatguard® 135 Series—Lead Free

TYPICAL INSTALLATION

The Heatguard® 135 is a high performance thermostatic mixing valve designed to deliver mixed water to a single outlet. It can also be used to supply sensor faucets or two handle manual faucets.



SPECIFICATION DATA

Adj. outlet temperature range Factory set temperature range Temp. hot supply Temp. cold supply Maximum pressure Flow rate, minimum Flow rate, maximum @ 45 PSI

Body Springs Internal cap Piston Inlet Strainer Screens 100 – 120°F (38 – 49°C) 105 – 110°F (40 – 43.3°C) 120 – 180°F (49 – 82°C) 39 – 80°F (4 – 27°C) 230 psi (1600 kPa) 0.25 gpm (1.0 l/min) 2.5 gpm (9.5 l/min)

DZR Brass Stainless Steel Brass Engineered Polymer Stainless Steel

2.22°±0.04° (56.5+1.2) COMPRESSION FITTING TO SUIT 36° DO COPPER PIPE THREAD 9/16° x 24 UNEF (3 PLACES) 1.14°±0.04 (29.0±1.09)

0.471 ± 0.041 (12.0x 1.00) 0.87° ± 0.04° (22.00 + 1.00)

Flow Rate (Gal/min)

Flow Curve

25

20

Pressure Differential (PSI)

AVAILABLE CONNECTIONS

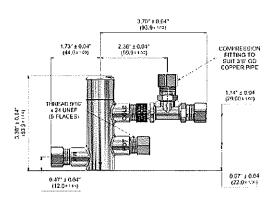
Compression

Suitable for 3/8" OD tube.

Also available with cold water bypass tee.

CERTIFICATIONS

The Cash Acme Heatguard* 135 LF is certified to ASSE 1070, CSA B125.3, NSF 372, NSF/ANSI 61 and listed by ASSE, CSA, and IAPMO for use in accordance with U.S. and Canadian plumbing codes.*



2400 7th Avenue S.W.: Cullman: Alabama 35055 - USA - www.cashateme.com US Contact: 1-877-700-4242 - sales@cashacme.com - Canadian Contact: 1-888-820-0120 - canadiasales@rwc.com

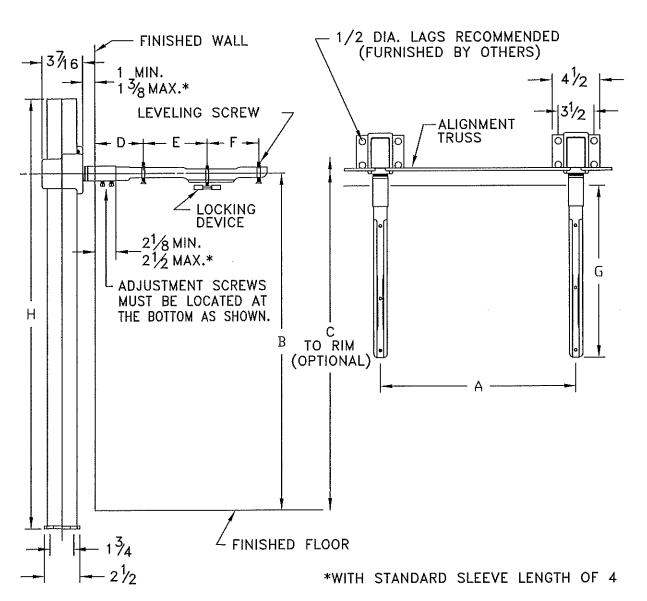




Z1231 RIGID SYSTEM FOR AMERICAN STANDARD CO. LAVATORIES

DIMENSIONS SUBJECT TO MANUFACTURING TOLERANCES

AMERICAN	STANDARD	CO. REF.	ZURN REFERENCE							
NAME	CATALOG NO.	SIZE	Α	В	С	D	E	F	G	Н
LUCERNE	0355.012, .034	20 1/2 X 18 1/4	16 3/4	29 3/4	31	4	6	6	16 1/2	36
LUCERNE	0356.015, .421, .439	20 1/2 X 18 1/4	16 3/4	29 3/4	31	4	6	6	16 1/2	36



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

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