QUARTZIA® Lavatory System

Available through Haines, Jones & Cadbury
Bringing together Levantina, Toto, Acorn Engineering, Mansfield Plumbing and Zurn we have assembled a superior lavatory package that will make your facility shine.

QUARTZIA® countertops by Levantina combine technology and beauty to create a superior surface material. QUARTZIA®’s easy-clean surface is excellent at resisting scratches, stains, liquid and oils - reducing your maintenance costs and retaining its look for years. QUARTZIA® is certified under NSF / ANSI Standard 51 & ASTM E84-10b Test for Surface Burning Characteristics of Building Materials (UL723, UBL8-1, NFPA 255). Flame Spread -5, Smoke Developed Index -95.

The EcoPower® faucet by Toto represents some of the most advanced and reliable faucet technology on the market today. With beautiful contemporary styling and a revolutionary self-generating power system, this dependable self-adjusting sensor faucet will give your facilities a timeless appearance and save you money.

The Mansfield under-counter lavatory is simple and elegant. Using an under-counter mount design virtually eliminates gaps and crevices where water or dirt could collect, easing maintenance and increasing durability.

Acorn Engineering’s stainless steel lavatory pedestal provides an easy to clean, secure and stable platform. Easy-access front panels make maintenance a breeze.

Lead-free thermostatic mixing valves from Zurn-Wilkins prevent scalding injuries by delivering temperate water everytime.
WAL-MART PEDESTAL

SOLID SURFACE

HALB

ADA Profile

TOLERANCES: UNLESS OTHERWISE NOTED, DECIMAL DIMENSIONS .XXX=+/-.005, .XX=+/-.015, BREAK ALL SHARP CORNERS, ALL RADII MINIMUM

DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCE AND CHANGE WITHOUT NOTICE. WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA.

THIS PRINT IS CONFIDENTIAL AND IS LOANED FOR MUTUAL ASSISTANCE. IT IS NOT TO BE FORWARDED TO OTHER PARTIES NOR REPRINTED IN ANY FORM WITHOUT OUR WRITTEN PERMISSION.
1. Disassemble access panels from frame. Anchor frame to wall using 3/8" mounting hardware by others.

2. Assemble underside of bowls to frame using 1/4" x 20 bolts and washers, by others.

3. Install front access panels using 10-32 x 3/4" screws provided.

NOTE:
3-station counter-lav shown as reference.
2 STATION WAL-PED, ROUGH IN DIMENSIONS

1 STATION WAL-PED, ROUGH IN DIMENSIONS

3 STATION WAL-PED, ROUGH IN DIMENSIONS

--- UTILIZE EXISTING WATER SUPPLY LOCATIONS ***
--- UTILIZE EXISTING WASTE OUTLET LOCATION FOR 1/12" O.D. P-TRAP ***

FOR REPLACEMENT OF EXISTING TROUGH UNITS ONLY
Features

- Oval, Under Counter Lavatory
- Model 216NS: 17-1/8” x 14” Petite Oval, Under Counter Lavatory
- Model 217: 19-3/4” x 16” Oval, Under Counter Lavatory
- Concealed Front Overflow
- Available in White, Standard, and Designer Colors (Consult Price Book for specific colors)
- Outstanding protection—The Mansfield® Limited Lifetime Warranty
- Complies with ADA Requirements for Accessibility

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
<th>Approx. Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>216NS</td>
<td>17-1/8” x 14” Petite oval, under counter lavatory. Complete with template and installation instructions. Less mounting clips, drain assembly and supply. ADA compliant. Specify color.</td>
<td>11 lbs. (5 kg)</td>
</tr>
<tr>
<td>217</td>
<td>19-3/4” x 16” Oval, under counter lavatory. Complete with template and installation instructions. Less mounting clips, drain assembly and supply.</td>
<td>15 lbs. (7 kg)</td>
</tr>
<tr>
<td>CLIPS</td>
<td>Mounting clips. Set of 4 clips for under counter lavatories.</td>
<td></td>
</tr>
</tbody>
</table>
Specifications

Material: Vitreous China

Size: Model 216NS
- 17-1/8” x 14” (435 mm x 356 mm)
- Model 217
- 19-3/4” x 16” (502 mm x 406 mm)

Basin: Model 216NS
- 15-1/8” x 12-1/4” (38.5 cm x 31 cm)
- Model 217
- 17-5/16” x 14-1/8” (440 mm x 359 mm)

Shipping Dimensions: Model 216NS
- 15-1/2” x 17-1/2” x 8-1/2” (394 mm x 445 mm x 216 mm)
- Model 217
- 17-1/4” x 20-1/4” x 7-7/8” (438 mm x 514 mm x 200 mm)

Weight: Model 216NS - 17 lbs (7.7 kg)
- Model 217 - 18 lbs (8 kg)

Warranty: Limited Lifetime

Technical Information

NOTE: Install this product according to the installation guide. Fixture dimensions are nominal and conform to tolerances in ASME/CSA A112.19.2 standards.

See our complete line of acrylic and vitreous china bathroom fixtures, plastic tank trim and plumbing products.
3. Install grid strainers with plumbers putty. Assemble waste piping using Teflon tape and make-up connection.
## SPECIFICATIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warranty</td>
<td>Three year warranty</td>
</tr>
<tr>
<td>Material</td>
<td>Bronze with polished chrome finish</td>
</tr>
<tr>
<td>Power Supply</td>
<td>Hydrowave self-generating system</td>
</tr>
<tr>
<td>Hot/Cold-water Supply</td>
<td>Minimum required water pressure: 20PSI</td>
</tr>
<tr>
<td></td>
<td>Maximum water pressure: 125PSI*</td>
</tr>
<tr>
<td>Water Supply Connect</td>
<td>1/2&quot; NPSM</td>
</tr>
<tr>
<td>Water Consumption</td>
<td>60 Second Faucet: 1.0 gpm (4.0 lpm)</td>
</tr>
<tr>
<td></td>
<td>10 Second Faucet: 0.17 gal. per cycle (max)</td>
</tr>
<tr>
<td>Water Saving Function</td>
<td>Automatically turns OFF when user removes hands</td>
</tr>
<tr>
<td></td>
<td>Maximum continuous run time is 10 or 60 seconds</td>
</tr>
<tr>
<td>Detection time</td>
<td>ON feature: Immediate</td>
</tr>
<tr>
<td></td>
<td>OFF feature: 1 second delay</td>
</tr>
<tr>
<td>Detection range</td>
<td>Factory set at 2-1/4&quot;</td>
</tr>
<tr>
<td></td>
<td>Faucet automatically sets the detection range according to the size of the basin</td>
</tr>
<tr>
<td>Discharge water temperature</td>
<td>Thermal Mixing Faucet:</td>
</tr>
<tr>
<td>control range</td>
<td>Cold water - 104°F (Max)</td>
</tr>
<tr>
<td></td>
<td>(When used under standard conditions)</td>
</tr>
<tr>
<td>Anti-scald safety feature</td>
<td>Provides the user protection against exposure to excessive water temperature (Thermal mixing faucet, only)</td>
</tr>
</tbody>
</table>

### NOTE

Following the Federal mandate for water efficiency outlined in the Environmental Protection Act of 1992, Faucets can be rated for water consumption based on two categories: flow rate and water consumption.

With the “Water Consumption” standard, a faucet must not use more than 0.25 gallons of water per cycle. The TOTO® faucet with a 10 second cycle uses 0.17 gallons of water. This is a 32% below the base line of 0.25 gallons per cycle.

Furthermore, an innovative design feature incorporated into all TOTO electronic faucets is an "ON-DEMAND" mode. This means that the faucet will only deliver water as needed and will not run the entire duration of its rated cycle - either 10 or 60 seconds. This guarantees additional water savings.

TOTO uses water consumption because it is the most accurate method of measuring water use. This method of measurement can be incorporated into water usage calculations for various efficiency programs. For more information, please consult www.totousa.com.

*Water pressures over 80 psi are not recommended for most plumbing fixtures.*
TEL3GS & TEL5GS Series
Standard EcoPower® Faucet

FEATURES

- Hydropower self-generating system
- Sensor faucet with aerated flow
- Self adjusting faucet with control box and mounting hardware, less supply lines
- 1/2" water supply male threaded
- NSF compliant
- Single-hole mount

MODELS

- TEL3GS10#CP - Single Supply
  Discharge: On-demand; Up to 10 seconds while activated.
- TEL5GS10#CP - Thermal Mixing
  Discharge: On-demand; Up to 10 seconds while activated.
  Controller/Mixer #: TN78-10V510
- TEL3GS60#CP - Single Supply
  Discharge: On-demand; Up to 60 seconds while activated.
- TEL5GS60#CP - Thermal Mixing
  Discharge: On-demand; Up to 60 seconds while activated.
  Controller/Mixer #: TN78-10V560

Optional Accessories:
1.0 gpm Laminar Flow Nozzle: TH559EDV908
TN 71V1005 - 4" cc Cover Plate
71244T8CC - 8" cc Cover Plate

COLORS/FINISHES

- #CP Polished Chrome

CODES/STANDARDS

- Exceeds mandatory baseline, 0.20 gallon/cycle, of California Green Building Code, CALGreen, by using TOTO faucets with 10 second cycle
- Meets or exceeds ASME A112.18.1/CSA B125.1, NSF 61-9, and ASSE 1070*
- Certifications: IAPMO (cUPC), ASSE, State of Massachusetts, and others
- Code Compliance: UPC, IPC, NSPC, NPC Canada, and others
- Legislative compliance: California AB 1953 & Vermont S.152, and City of Los Angeles Water Efficiency Ordinance
- ADA compliant

*Note: ASSE 1070 supersedes ASSE1016 for non-shower point of use devices. Applies to TEL5 series models.

PRODUCT SPECIFICATION

TOTO Model #___________ Automatic infrared sensor activated faucet. Anti-scald, thermal mixing chamber (thermal faucets only). Automatic sensor adjustment on installation. Maximum discharge 0.17 gallons per 10 second cycle. Electrical components separated from spout assembly and sealed in waterproof compartments. Single hole faucet with optional 4" cc and 8" cc cover plates. All TEL5 series use an ASSE 1070 listed controller module with mixing valve. TOTO faucets with 10 second cycle use 0.17 gallon/cycle which is 15% below CALGreen’s baseline.
MODEL ZW3870XLT
Aqua-Gard Thermostatic Mixing Valve

APPLICATION
Ideal for use where lead free* valves are required. The Wilkins Model ZW3870XLT Aqua-Gard Thermostatic mixing valve is designed to be installed at the point of use under sinks and sensor faucets to assist in the prevention of scalding. The valves rapid response and precise temperature control meet the stringent standards of ASSE 1070 listed for fixtures, sinks, lavatories or bathtubs. The ZW3870XLT will mix hot and cold water from the distribution system to a final safer temperature outlet range of 95-115°F (35-46°C). The 3/8" compression fittings make this valve ideal for residential and commercial applications.

STANDARDS COMPLIANCE
• ASSE® Listed 1070
• CSA® Certified
• NSF® Listed-Standard 61, Section 9, Annex G

LEAD PLUMBING LAW COMPLIANCE
*(0.25% MAX. WEIGHTED AVERAGE LEAD CONTENT)
• Lead Plumbing Law Certified by IAPMO R&T
• Annex G Certified by NSF International

MATERIALS
Body   Bronze JIS H5120
CAC902 w/chrome plating
ASTM B 456 Service Condition #2
Internal brass   ASTM B 927 UNS C27450
Piston   Polysufone
Guide Tube   Noryl GFN2
Spring   300 Series Stainless Steel
Seals   Viton
Checks   Acetal Co-Polymer

FEATURES
Sizes:  3/8"
Chrome Plated
Outlet Temp. Range   95-115°F (35-46°C)
Temperature Hot Supply 120-195°F max.
(49-90.5°C)
Temperature Cold Supply   40-75°F (4.4-23.8°C)
Set Temperature Accuracy +/- 3°F (1.78°C)
Max. Working Pressure (inlet) 145 psi
Max. Pressure Differential is 15 psi between Hot & Cold inlets
Flow rate @ 45 psi pressure loss 3.10 gpm
Min. Flow Rate 0.5 gpm
Integral check valves and strainer screen on hot and cold supply

FLOW CHARACTERISTIC

PIPING INSTRUCTIONS
The device is designed to be installed at a single outlet. It may be used to supply individual outlets when there is sufficient supply pressure. It is suggested to use ball valves on the hot and cold inlet supplies.

DIMENSIONS & WEIGHTS (do not include pkg.)

<table>
<thead>
<tr>
<th>SIZE</th>
<th>MODEL</th>
<th>DIMENSIONS (approximate)</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>in.</td>
<td>mm</td>
<td>A</td>
<td>in.</td>
</tr>
<tr>
<td>3/8</td>
<td>9.5</td>
<td>ZW3870XLT</td>
<td>4 27/32</td>
</tr>
</tbody>
</table>

* NSF/ANSI 61 Certified
**Model 1070XL**

**Aqua-Gard Thermostatic Mixing Valve**

**SPECIFICATION SUBMITTAL SHEET**

### FEATURES

- Sizes: 3/8" 1/2" 3/4" 1"
- Outlet Temp. Range: 95-115°F (35-46°C)
- Temperature Hot Supply: 120-195°F max. (49-90.5°C)
- Temperature Cold Supply: 40-75°F (4.4-23.8°C)
- Set Temperature Accuracy: +/- 3°F (1.7°C)
- Max. Working Pressure (inlet): 145 psi
- Temperature must be field set
- Max. Pressure Differential is 15 psi between Hot & Cold inlets
- Flow rate: @ 45 psi pressure loss 10 gpm
- Min. Flow Rate: 0.5 gpm
- CPVC tailpiece - Maximum Hot water Temperature of 180°F @ 100 psi.
  - Cold water rated Temperature of 73.4°F @ 400 psi.

### DIMENSIONS & WEIGHTS (do not include pkg.)

<table>
<thead>
<tr>
<th>MODEL</th>
<th>INLET &amp; OUTLET</th>
<th>DIMENSIONS (approximate)</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A (in.)</td>
<td>B (in.)</td>
<td>C (lbs.)</td>
</tr>
<tr>
<td>38-ZW1070XLCOMP</td>
<td>5 11/16</td>
<td>3 6/8</td>
<td>148</td>
</tr>
<tr>
<td>12-ZW1070XL</td>
<td>5 7/16</td>
<td>3 3/8</td>
<td>138</td>
</tr>
<tr>
<td>12-ZW1070XLC</td>
<td>5 7/8</td>
<td>3 13/16</td>
<td>149</td>
</tr>
<tr>
<td>12-ZW1070XLPVC</td>
<td>5 9/16</td>
<td>3 1/2</td>
<td>141</td>
</tr>
<tr>
<td>34-ZW1070XL</td>
<td>5 5/16</td>
<td>3 3/8</td>
<td>138</td>
</tr>
<tr>
<td>34-ZW1070XLPVC</td>
<td>5 5/16</td>
<td>3 13/16</td>
<td>141</td>
</tr>
<tr>
<td>34-ZW1070XLM</td>
<td>6 1/4</td>
<td>4 1/4</td>
<td>178</td>
</tr>
<tr>
<td>1-ZW1070XLC</td>
<td>5 1/2</td>
<td>3 7/16</td>
<td>148</td>
</tr>
</tbody>
</table>

### APPLICATION

Ideal for use where lead free* valves are required. The Wilkins Model ZW1070XL Aqua-Gard Thermostatic mixing valve is designed to be installed at the point of use to assist in the prevention of scalding. The valve’s extremely rapid response rate make it most suitable for installation at plumbing fixtures and appliances for the final control of water temperature. The ZW1070XL is ASSE 1070 listed for fixtures, sinks, lavatories or bathtubs and will mix hot and cold water from the distribution system to a final safer temperature of 95-115°F (35-46°C). Multiple end configurations make this valve suitable for all residential and commercial installations.

### STANDARDS COMPLIANCE

- ASSE® Listed 1070
- CSA® Certified
- NSF® Listed-Standard 61, Section 9, Annex G

### LEAD PLUMBING LAW COMPLIANCE

- Lead Plumbing Law Certified by IAPMO R&T
- Annex G Certified by NSF International

### MATERIALS

- Body: Bronze JIS H5120 CAC902
- Internal brass: Brass, ASTM B 927 UNS C27450
- Piston: Polysufone
- Guide Tube: Noryl GFN2
- Spring & Screen: 300 Series Stainless Steel
- Seals: Viton
- Checks: Noryl GFN2

### FLOW CHARACTERISTIC

**FLOW CHARACTERISTIC MODEL ZW1070XL (STANDARD & METRIC)**

**FLOW CHARACTERISTIC**

**INDIVIDUAL USE**

**SINGLE USE**

**Piping Instructions**

The device is designed to be installed at a single outlet. It may be used to supply individual outlets when there is sufficient supply pressure. It is suggested to use ball valves on the hot and cold inlet supplies.