

# Model ZW1017, ZW1017XL & ZW1017XLHT Aqua-Gard® Mixing Valve

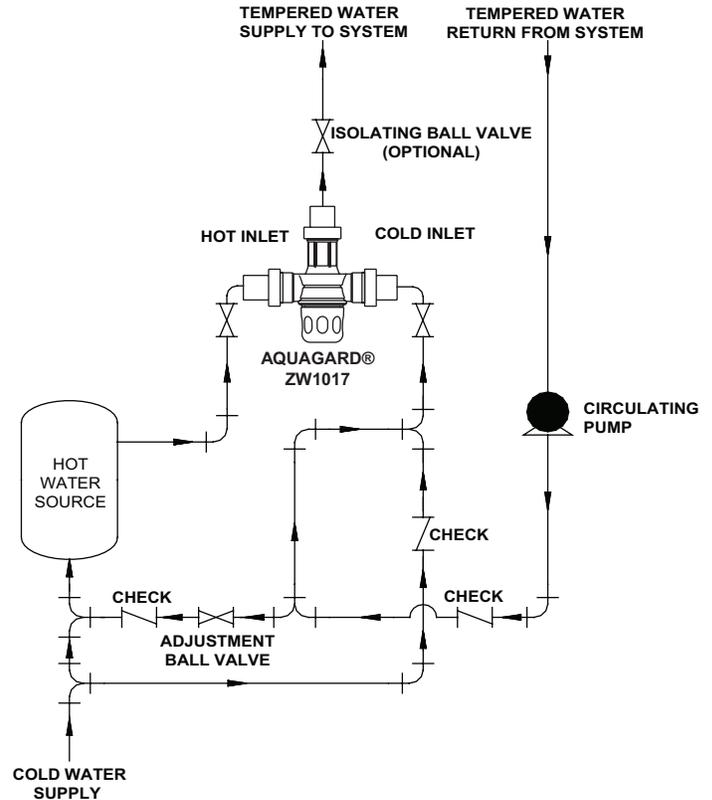
# WILKINS®

## □ Recirculation piping requirements

In order to maintain mixed water throughout the installation it is recommended that a recirculating system be used. To achieve a stable recirculation temperature, follow the piping diagram exactly.

### Setting Recirculation Temperature:

1. Purge the system of air and ensure the hot water source is switched on and delivering hot water at normal operating temperature.
2. With the Adjustment Ball Valve fully closed and the recirculating pump turned off, set the desired mix temperature of the valve as detailed in the Temperature Adjustment section.
3. With the mixed temperature set, close all outlets. (Make sure there is no water being drawn off through the Aquagard®).
4. Start the Circulating Pump and open the Adjusting Ball Valve approximately half way.
5. Allow the recirculating temperature to stabilize.
6. If the temperature increases above the desired temperature, slightly close the Adjustment Ball Valve. If the temperature decreases below the desired temperature open the Adjustment Ball Valve slightly.
7. Repeat Steps 4 and 5 until the valve is recirculating at the desired temperature.



**Recirculation Piping Diagram**

## RECIRCULATION TROUBLE SHOOTING

1. Recirculating water temperature hotter than desired	<ul style="list-style-type: none"> <li>• Ball Valve incorrectly set</li> </ul>	<ul style="list-style-type: none"> <li>• Close ball valve slightly</li> </ul>
2. Recirculating water temperature colder than desired	<ul style="list-style-type: none"> <li>• Ball Valve incorrectly set</li> <li>• Recirculating pump too small</li> </ul>	<ul style="list-style-type: none"> <li>• Open ball valve slightly</li> <li>• Obtain larger Pump</li> </ul>
3. Recirculating water cools down with ball valve fully open	<ul style="list-style-type: none"> <li>• Recirculating pump too small</li> <li>• Recirculating pump not operating</li> <li>• System not piped correctly</li> </ul>	<ul style="list-style-type: none"> <li>• Obtain larger Pump.</li> <li>• Rectify pump problem</li> <li>• Check Piping against supplied diagram and correct if necessary</li> </ul>

**WARRANTY:** WILKINS Valves are guaranteed against defects of material or workmanship when used for the services recommended. If in any recommended service, a defect develops due to material or workmanship, and the device is returned, freight prepaid, to WILKINS within 12 months from date of purchase, it will be repaired or replaced free of charge. WILKINS' liability shall be limited to our agreement to repair or replace the valve only.

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 ⚠ **ADVERTENCIA:** Cáncer y daño reproductivo - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
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**Zurn Water, LLC - Wilkins**

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