



# Model ZW1070XL

## Aqua-Gard® Thermostatic Mixing Valve

### Application

Ideal for use where Lead-Free\* valves are required. The Zurn 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
- IAPMO® Listed
- CSA® Certified B125.70
- Meets the requirements of NSF/ANSI 61-9\* (0.25% MAX. WEIGHTED AVERAGE LEAD CONTENT)

### Materials

|                 |                                                                                         |
|-----------------|-----------------------------------------------------------------------------------------|
| Body            | Low Lead Cast Bronze, ASTM B 584<br>W/Chrome Plating ASTM B 456<br>Service Condition #2 |
| Internal brass  | Low Lead Brass, ASTM B 927,<br>UNS C27450                                               |
| Piston          | Polysulfone                                                                             |
| Guide Tube      | Noryl GFN2                                                                              |
| Spring & Screen | 300 Series Stainless Steel                                                              |
| Seals           | Viton                                                                                   |
| Checks          | Noryl GFN2                                                                              |

### Dimensions & Weights (do not include pkg.)

| MODEL               | INLET & OUTLET   | DIMENSIONS (approximate) |     |         |     |         |     | WEIGHT |    |
|---------------------|------------------|--------------------------|-----|---------|-----|---------|-----|--------|----|
|                     |                  | A                        |     | B       |     | C       |     |        |    |
|                     |                  | in.                      | mm  | in.     | mm  | in.     | mm  | lbs.   | kg |
| 38-ZW1070XLCOMP     | 3/8" Compression | 5 11/16                  | 145 | 3 5/8   | 92  | 5 13/16 | 148 | 2      | 1  |
| 12-ZW1070XL         | 1/2" FNPT        | 5 7/16                   | 138 | 3 3/8   | 86  | 5 1/4   | 133 | 2      | 1  |
| 12-ZW1070XLC        | 1/2" CU Sweat    |                          |     |         |     |         |     |        |    |
| 12-ZW1070XLCPCVC    | 1/2" CPVC        | 5 7/8                    | 149 | 3 13/16 | 97  | 6 3/16  | 157 | 2      | 1  |
| 12-ZW1070XLPX       | 1/2" Barb        | 5 9/16                   | 141 | 3 1/2   | 89  | 5 9/16  | 141 | 2      | 1  |
| 12-ZW1070XLPXEF1960 | 1/2" Barb        | 5 3/8                    | 137 | 3 5/16  | 85  | 5 1/4   | 133 | 2      | 1  |
| 34-ZW1070XL         | 3/4" FNPT        | 5 1/2                    | 140 | 3 1/2   | 89  | 5 7/16  | 138 | 2      | 1  |
| 34-ZW1070XLC        | 3/4" CU Sweat    |                          |     |         |     |         |     |        |    |
| 34-ZW1070XLCPCVC    | 3/4" CPVC        | 5 7/16                   | 138 | 3 3/8   | 86  | 5 5/16  | 135 | 2      | 1  |
| 34-ZW1070XLPX       | 3/4" Barb        | 5 9/16                   | 141 | 3 1/2   | 89  | 5 9/16  | 141 | 2      | 1  |
| 34-ZW1070XLPXEF1960 | 3/4" Barb        | 5 3/4                    | 146 | 3 11/16 | 94  | 5 11/16 | 151 | 2      | 1  |
| 34-ZW1070XLM        | 3/4" MNPT        | 6 1/4                    | 159 | 4 1/4   | 108 | 7       | 178 | 2      | 1  |
| 1-ZW1070XLC         | 1" CU Sweat      | 5 1/2                    | 140 | 3 7/16  | 87  | 5 3/16  | 132 | 2      | 1  |

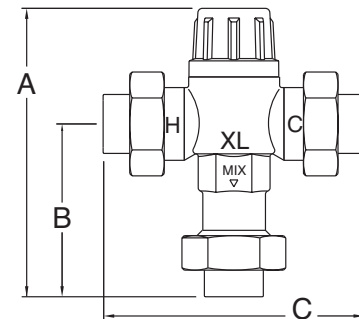


### Features

|                                                                |                                                                                                            |
|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Sizes:                                                         | 3/8", 1/2", 3/4", 1"                                                                                       |
| Outlet Temp. Range                                             | 95-115°F max (35-46°C)                                                                                     |
| Temperature Hot Supply                                         | 120-195°F max. (49-90.5°C)                                                                                 |
| Temperature Cold Supply                                        | 39°F-80°F (3.8-26.6°C)                                                                                     |
| Set Temperature Accuracy                                       | +/- 3°F (1.78°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                                                 | 0.25 gpm                                                                                                   |
| CPVC tailpiece                                                 | - Maximum Hot water Temperature of 180°F @ 100 psi.<br>- Cold water rated Temperature of 73.4°F @ 400 psi. |

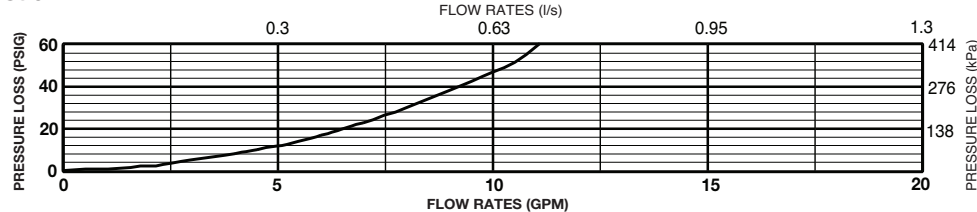
### Options

- ☐ PF - with Z-Bite™ push fit tailpiece connections (1/2" - 1" only)
- ☐ PR - with Z-Press™ press fit tailpiece connections (3/4" - 1" only)

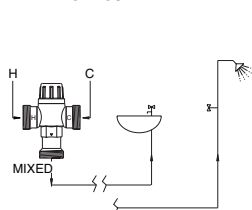


### Flow Characteristic

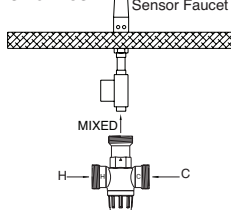
#### MODEL ZW1070XL (STANDARD & METRIC)



#### 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.