

INSTALLATION & MAINTENANCE

INSTALLATION INSTRUCTIONS

It is suggested that the device be installed to deliver water to the end user. It is to be used for the final control of water temperature at plumbing fixtures and appliances. This Australian Standards compliant device is to be used for point of use. It is designed to mix cold water and hot water from the water heater to a safer temperature range of 35-46°C.

1. Flush the Hot and Cold delivery lines completely before installing the device.
2. The device can be installed in any position. Note: the inlet hot supply is to be connected to the "H" side of the valve and the cold supply side to the "C" side.
3. The valve is to be fitted to deliver mixed water to a single outlet.
4. To set the temperature on the valve remove the protective blue cap. The cap can be removed by inserting a small blade screw driver into the slot at the base of the blue cap and lightly push up.
Using an adjustable wrench or combination wrench, rotate the flats clockwise to lower the temperature or counter-clockwise to increase the set temperature. Read temperature using a thermometer.
5. Verify the set temperature by running a plumbing fixture and reinstall the protective plastic cap to the device. For bathroom operation set the maximum temperature not to exceed 35-46°C.

PERFORMANCE

Outlet Temp. Range	35-46°C
Temperature Hot Supply	49-90°C
Temperature Cold Supply	4-24°C
Set Temperature Accuracy	+/- 1.8°C
Max. Working Pressure (inlet)	1000kPa

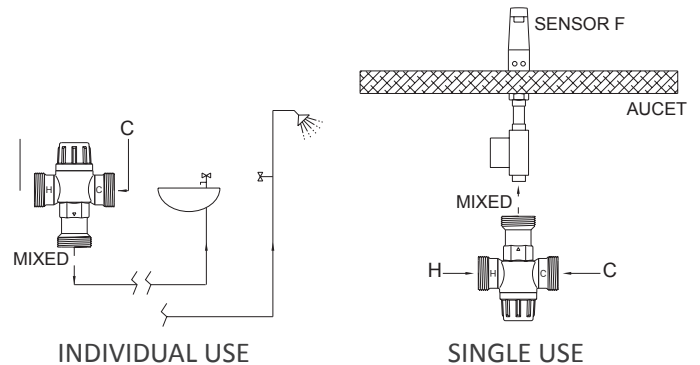
Temperature must be field set

Max. Working Pressure (Dynamic)	10-500kPa
Max. Pres. Differential Hot/Cold Inlets	103kPa
Flow rate @ 310kPa pressure loss	0.63 l/s
Min. Flow Rate	0.31 l/s

DIMENSIONS & WEIGHTS

MODEL	INLET & OUTLET	DIMENSIONS (approx)			WEIGHT kg
		A mm	B mm	C mm	
ZW1070/15	15mm BSPP	138	86	172	1.39
ZW1070/20	20mm BSPP	140	89	172	1.48

WARRANTY: ZURN WILKINS Valves are guaranteed against defects of material or workmanship when used for the services recommended. Please refer to the LWG Zurn/ Zurn Wilkins Product Warranty Statement for details.



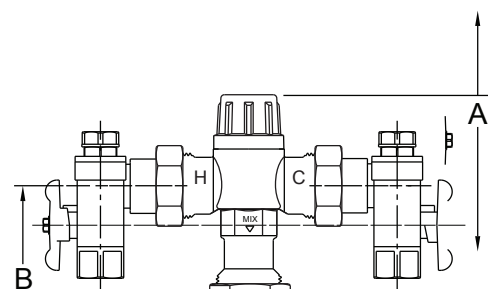
PIPING INSTRUCTIONS

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.

CAUTION: Installation of water temperature control products must be performed by qualified, licensed personnel. The qualified installer should be sure that the proper device has been selected for the proper installation. A faulty installation can cause scalding.

NOTICE: Annual inspection and maintenance is required of all plumbing system components. To ensure proper performance and maximum life, this product must be subject to regular inspection, testing and cleaning.

WARNING! Water Temperatures in Excess of 50°C Are Dangerous and Will Cause Scalding, Severe Injury or Death! This valve is **Not** Factory preset. To deliver a safe mixed water temperature at the outlet, the installer must use a thermometer at the outlet to verify the temperature. Set the outlet temperature



MATERIALS

Body	Bronze ASTM B 584 UNS C84400, nickel plated
Internal brass	Brass ASTM B-16 UNS C36000
Piston	Polysufone
Guide Tube	Noryl GFN2
Spring & Screen	300 Series Stainless Steel
Seals	Viton
Checks	Noryl GFN2

MAINTENANCE

SERVICING THE STRAINERS

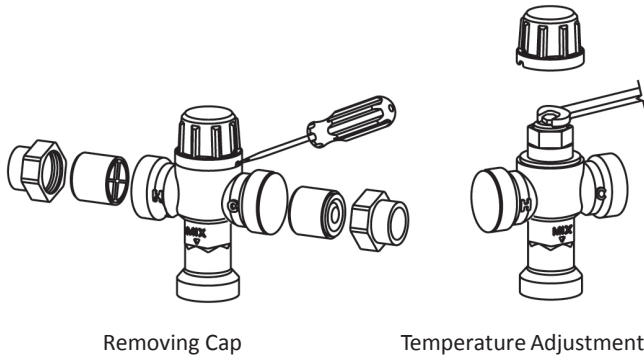
The strainers on the inlet supplies can be serviced by loosening the union nuts, removing the valve from service and clean the screens thoroughly with water after disassembly. Where water quality is a concern it may be necessary to install additional line strainers.

SERVICING THE CHECK VALVES

The check valves can be serviced by removing them from the body. Flush the check valves thoroughly with water removing debris from the seat and seat washers. Reinstall the check valve by pushing them into the body flush to the body, spring first. Make sure that the poppet and seat washer is facing you.

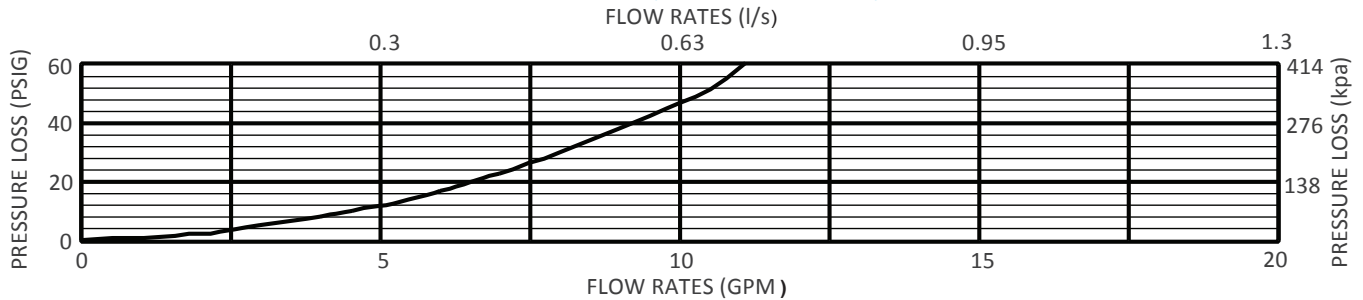
OPERATION

The valve internals themselves cannot be serviced. If the valve fails it must be replaced. The function of the valve can be checked by measuring the temperature of the water at the outlet nearest to the valve. If the temperature is within +/- 1.8°C of the initial set temperature, the valve is functioning correctly. If the temperature has changed by more than +/- 1.8°C it is likely due to a build up of debris in the strainers or a change in the supply condition.



FLOW CHARACTERISTICS

MODEL ZW1070 (STANDARD & METRIC)



TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
The desired mixed water temp. cannot be obtained or valve is difficult to set	Hot and cold supplies are reversed, valve is full of debris or strainers are fouled	Re-fit valve so H & C are correct, flush valve with water and clean strainers
Mix. Temperature is unstable	Strainers are fouled or fluctuating supply pressure	Clean strainers and Install PRV's on H & C inlet supplies
Mix Temperature changing over time	Fluctuating supply pressures or strainers are full	Install PRV's and clean strainers
Either full Hot or Cold water flowing	Valve is set incorrectly	Adjust mix. Temperature to 35°C - 46°C
No flow from the valve outlet	Hot or Cold water supply failure or strainers are fouled	Restore inlet supply & check mix. Temperature and clean strainers
Flow rate reduced or fluctuating	Valve or inlet fitting fouled by debris	Check valve and inlet fittings for blockage
Mixed water temp. too Hot or Cold	Valve has been tampered with, valve incorrectly set, or inlet temperatures are not within specified limits	Re-adjust to required set temp. to ensure inlet temperatures are within specified limits
Mixed water temp. does not change when the temp. adjuster is moved	Hot and Cold supplies are reversed	Refit the valve to correct Hot and Cold
Hot water flows into the cold water system or vice versa	Check valve is fouled	Clean strainers and remove debris
Valve is noisy	Water velocity is too high	Reduce water velocity



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