

Z-Bite™ Solderless Connections

LEAD-FREE*



Tailpiece and Mechanical Threaded Connections (1/2"-1")

*This product contains a weighted average lead content less than 0.25% for wetted surfaces.

□ Installation

Z-Bite™ Connections

APPLICATION

The Zurn Wilkins Z-Bite™ Solderless Solution is a push-fit option for use with Zurn Wilkins water control products including Pressure Regulators, Backflow Preventers, and Thermostatic Mixing Valves with union threads. The Z-Bite™ connection features a push-fit design that contains a stainless steel grip ring to secure the pipe/tubing in place and an o-ring to create a leak-tight seal. These connections are offered in both a union nut tailpiece version as well as an integral style mechanically threaded into the valve*

*Backflow Prevention devices are provided with fittings loose in box and must be manually threaded into the valve on site.

INSTALLATION INSTRUCTIONS

1. Complete a fit check by making sure the Z-Bite™ fitting and pipe/tubing are the correct size. For example, a 1" Z-Bite™ Fitting is to be used with 1" Copper Pipe, 1" PEX Tubing, or 1" CPVC only.
2. Inspect the pipe/tubing to ensure it is clean and does not show any signs of damage.
3. Cut the inlet pipe/tubing if necessary.
4. Thoroughly clean the pipe/tubing to the insertion depth (See Table 1) of all scale, debris, and solder. Deburr the leading edge of the pipe. (**Caution:** This step is critical to ensure a proper seal and allow the fitting to slide easily during installation. Failure to properly clean the pipe could damage the fitting and create an unsafe connection.)
5. Mark the pipe at the insertion depth for reference.
6. If this fitting is to be used on PEX tubing the plastic insert will remain in the fitting to help stiffen and guide the PEX tubing into the fitting.
7. If this fitting is to be used on copper pipe or CPVC use a pair of needle-nose pliers to remove the plastic insert from inside of end A. (Note that the plastic insert to be removed is the clear tubular plastic piece, not the brown removal collar.)



Z-Bite™ Union Tailpiece Connection

UNION TAILPIECE CONNECTION

8. Remove the tailpiece connection from its packaging. Check to make sure there is a Z-Bite™ Tailpiece with union nut and gasket included in the kit and that it is clean and free of damage.
9. Slide the open portion of the push fitting (End A) over the pipe or tubing. Press the pipe or tubing firmly into the fitting until you have hit the hard stop. (**Caution:** The fitting can sometimes hang up on the stainless steel grip ring. Be sure to push the pipe past the ring all the way in the fitting to the stop.)
10. Verify proper insertion by checking that the depth mark from step 4 is at the release collar.
11. Lightly attempt to pull the pipe/tubing and fitting apart to ensure the grip ring of the fitting is engaged and holding the pipe/tubing in place.

12. Align the tailpiece to the valve with the union gasket in place to locate the final position.
13. Thread the union nut onto the valve and tighten union connection.
14. Repeat steps 1-13 for the other side of the valve if necessary.
15. Once installed flow water through the valve and pressurize system to ensure no leaks occur. If there are any leaks contact Zurn customer service for troubleshooting information.



Z-Bite™ Integral Mechanical Connection

INTEGRAL MECHANICAL CONNECTION

8. Pressure Regulating valves come pre-assembled with integral Z-Bite™ Connections. If the connections are to be attached to a Backflow Prevention Device the fittings will need to be connected on site. To do so, thread the fittings (End B) into each side of the valve and tighten using a strap wrench.
9. Slide the open portion of the push fitting (End A) over the pipe/tubing. Press the pipe/tubing firmly into the fitting until you have hit the hard stop. (**Caution:** The fitting can sometimes hang up on the grip ring. Be sure to push the pipe past the ring and all the way into the fitting to the stop.)
10. Attempt to pull the pipe/tubing and fitting apart to ensure the grip ring of the fitting is engaged and holding the pipe/tubing in place.
11. Repeat steps 1-10 for the other side of valve.
12. Once installed flow water through the valve and pressurize system to ensure no leaks occur. If there are any leaks contact Zurn customer service for troubleshooting information.
13. Installation is now complete.

TABLE 1

Nominal Size of Fitting	Nominal Size of Pipe/Tubing	Pipe OD Size	Pipe Insertion Depth
1/2"	1/2"	5/8"	13/16"
3/4"	3/4"	7/8"	14/16"
1"	1"	1-1/8"	1-1/16"



Removal Tool

REMOVAL INSTRUCTIONS

Z-Bite™ Fittings may be disconnected for reuse with the provided removal tool. The tool is designed to clip onto the pipe/tubing and press against the release collar. As the collar is engaged the grip ring will release and the pipe/tubing may be removed. Clean and deburr pipe/tubing prior to reuse.

Warning: Read and understand all instructions prior to installing Zurn Wilkins Z-Bite™ Solderless connections. Failure to follow all instructions and test the fitting for leaks may result in serious injury, property damage, or death.

WARRANTY: ZURN 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 ZURN WILKINS within 12 months from date of purchase, it will be repaired or replaced free of charge. ZURN WILKINS' liability shall be limited to our agreement to repair or replace the valve only.

WARRANTY EXCEPTIONS: ZURN WILKINS shall not be responsible for any incidental, indirect, special or consequential damages or any kind, including without limitation, lost profits or property damage if the warranted products do not work properly. This includes other costs resulting from labor charges, delays, vandalism, negligence, fouling caused by foreign material damage from adverse water conditions or adverse chemical environments, or any other circumstances over which ZURN WILKINS has no control. This warranty shall be invalidated by any abuse, misuse, misapplication or improper installation of the product.

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