

# Series U5B-Z3 and LFU5B-Z3

## 1/2" - 2" (15-50mm)

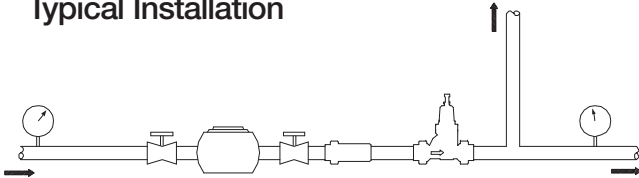
### Installation Instructions

1. The valve should be installed by a licensed contractor in accordance with local codes and ordinances.
2. This valve should be installed where it is accessible with sufficient clearance for cleaning, service, or adjustment.
3. Before installing the valve, be sure that the pipe ends are reamed and threads are cut to size. For Quick-Connect tailpieces refer to "Quick-Connect Installation" instructions below.
4. Flush the lines to remove all loose scale, dirt and other foreign matter that can damage or clog the valve.
5. Install the regulator with the arrow on the body pointing in the direction of the flow.
6. Regulator may be installed vertically or horizontally (upright or inverted).
7. Start Up — Open cold water supply then hot water supply. Inspect for leaks.

**Note:** The valve should be inspected annually to assure maximum life and performance.

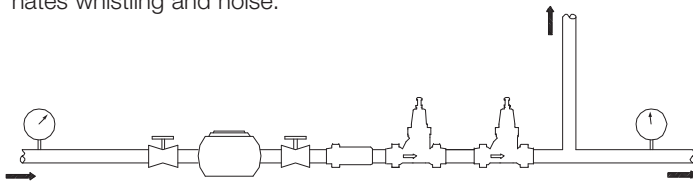
**Note:** U5B-Z3 or LFU5B-Z3 valves are suitable for accessible outdoor or pit installations.

### Typical Installation



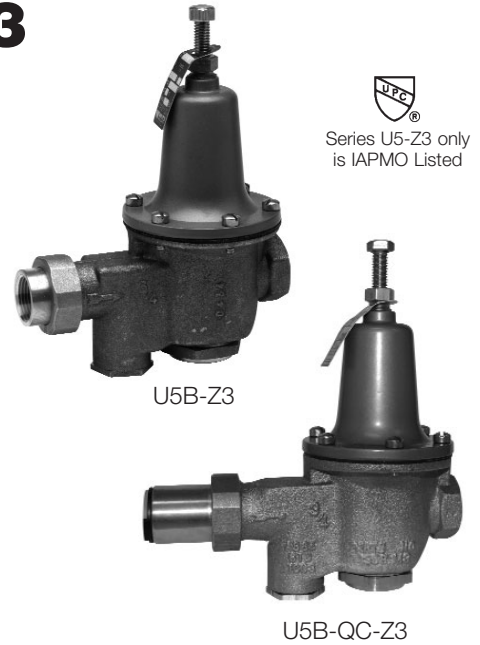
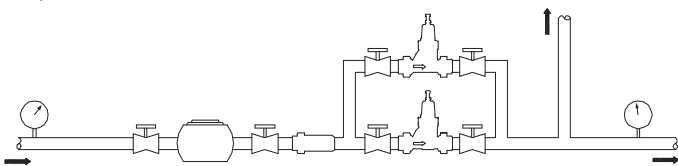
### Series Installation

Series installations are recommended where very high supply pressure must be reduced to a very low downstream pressure. Reducing the pressure in stages eliminates whistling and noise.



### Parallel Installation

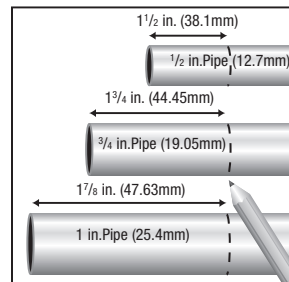
Parallel installations are recommended where high flow or low flow demand is intermittent/occasional. They are also used for installations where service cannot be interrupted.



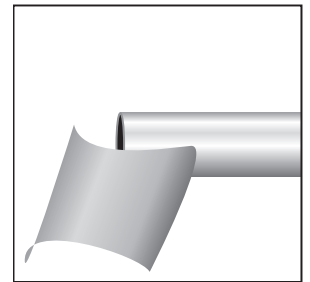
Series U5-Z3 only  
is IAPMO Listed

### Quick-Connect Installation

#### To Connect

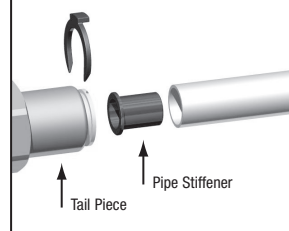


1. Mark pipe as shown. This is pipe insertion depth.

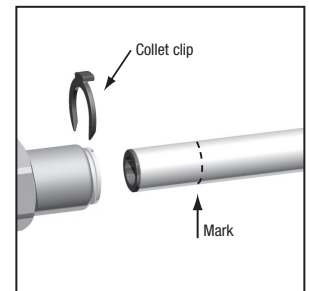


2. Clean pipe end.

#### PEX tubing only

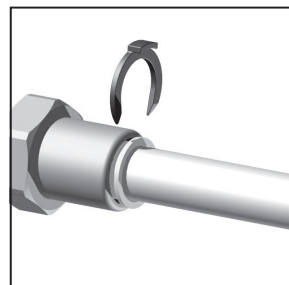


3. If using PEX tubing, insert pipe stiffener (provided) into end of pipe.

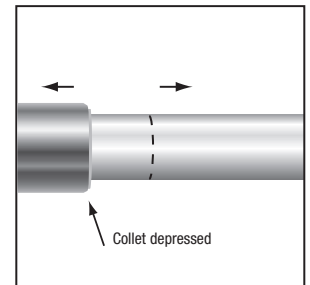


4. Push tubing into tailpiece up to mark.
5. Insert collet clip.

#### To Disconnect



1. Remove collet clip.



2. Depress collet.
3. Pull tubing from tailpiece.

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## Maintenance Instructions

- To clean strainer remove the bottom plug and pull out strainer.

## Adjustment

Regulator is factory preset to 50psi. To adjust pressure setting, loosen the lock nut and turn the adjusting bolt clockwise to increase pressure, counter clockwise to decrease pressure.

**CAUTION:** Any time a reducing valve is adjusted, the use of a pressure gauge is recommended to verify correct pressure setting. Do not bottom out adjusting screw on spring cage.

## Bypass Feature

This regulator has a built-in thermal expansion bypass feature. This feature prevents downstream pressure from rising to more than 10psi above the supply pressure.

**Note:** The Bypass feature will not prevent the pressure relief valve from opening on the hot water supply system with pressures above 150psi (10.3 bar).

## Troubleshooting

### High System Pressure

If the downstream system pressure is higher than the set pressure under no flow conditions, the cause could be thermal expansion, pressure creep or dirt/debris on the seat.

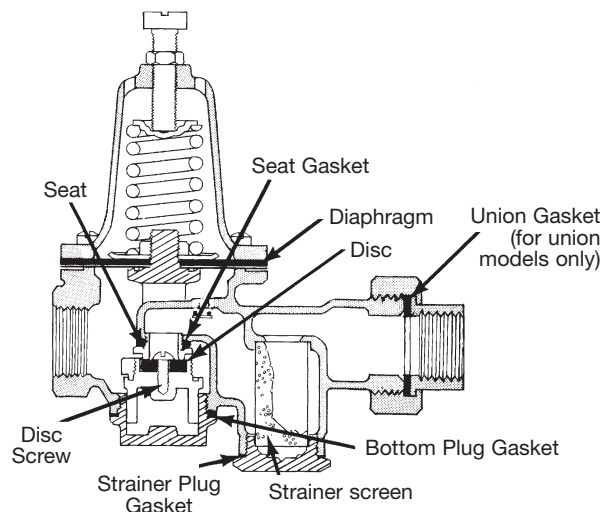
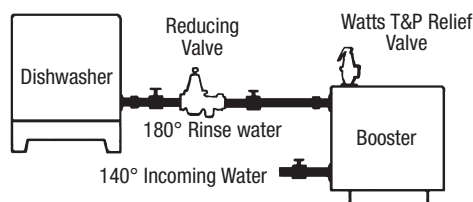
Thermal expansion occurs whenever water is heated in a closed system. The system is closed when supply pressure exceeds 150psi, or a check valve or backflow preventer is installed in the supply piping.

You must make provisions for pressure relief protection of your plumbing system and components. The use of a relief valve or potable water expansion tank may be required.

To determine if this is the result of thermal expansion, try briefly opening the cold water tap. If the increased pressure is caused by thermal expansion, the pressure will immediately be relieved and the system will return to the set pressure.

### Low Pressure Service

Recommended installation when regulator is used to control flow through the booster heater to dishwasher.



## Repair Kits

Kit for Series U5B-Z3 includes parts shown above.

ORDERING CODE	KIT NO.	VALVE SERIES	SIZE (DN)	
			In.	mm
0861460	"A"	U5	1/2	15
0861465	"B"	U5	3/4	20
0861470	"C"	U5	1	25
0861475	"D"	U5	1 1/4	32
0861477	"E"	U5	1 1/2	40
0861480	"F"	U5	2	50
0981001	LFRK-U5B	U5B	1/2	15
0981002	LFRK-U5B	U5B	3/4	20
0981003	LFRK-U5B	U5B	1	25
0981004	LFRK-U5B	U5B	1 1/4	32
0981005	LFRK-U5B	U5B	1 1/2	40
0981006	LFRK-U5B	U5B	2	50

NOTE: When ordering, specify Ordering Code, Kit Number and Valve Size.

### CALIFORNIA PROPOSITION 65 WARNING

**WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. (California law requires this warning to be given to customers in the State of California.)

For more information: [www.watts.com/prop65](http://www.watts.com/prop65)

**Limited Warranty:** Watts Regulator Co. (the "Company") warrants each product to be free from defects in material and workmanship under normal usage for a period of one year from the date of original shipment. In the event of such defects within the warranty period, the Company will, at its option, replace or recondition the product without charge.

**THE WARRANTY SET FORTH HEREIN IS GIVEN EXPRESSLY AND IS THE ONLY WARRANTY GIVEN BY THE COMPANY WITH RESPECT TO THE PRODUCT. THE COMPANY MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED. THE COMPANY HEREBY SPECIFICALLY DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

The remedy described in the first paragraph of this warranty shall constitute the sole and exclusive remedy for breach of warranty, and the Company shall not be responsible for any incidental, special or consequential damages, including without limitation, lost profits or the cost of repairing or replacing other property which is damaged if this product does not work properly, other costs resulting from labor charges, delays, vandalism, negligence, fouling caused by foreign material, damage from adverse water conditions, chemical, or any other circumstances over which the Company has no control. This warranty shall be invalidated by any abuse, misuse, misapplication, improper installation or improper maintenance or alteration of the product.

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