

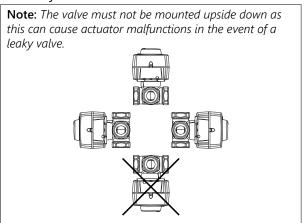
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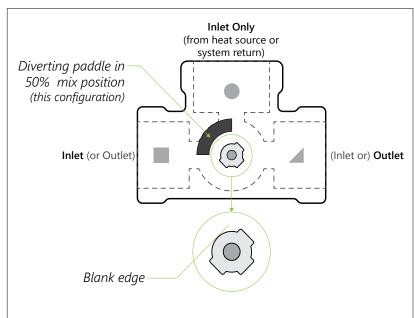
## 3-Way Mixing Valve and 58131 Actuator Installation

#### **Mixing Valve Installation**

The 3-way valve can be used for mixing or diverting. This guide is for mixing applications only.

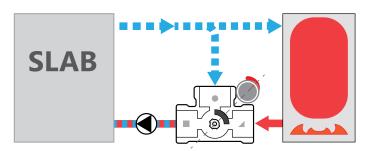
- 1. In 3-way mixing applications there are two **inlets** (supply from boiler, return from slab) and a single **outlet** (mixed fluid). See diagram for details.
- 2. The valve can be mounted horizontally or vertically.

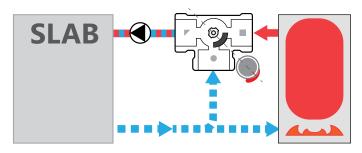


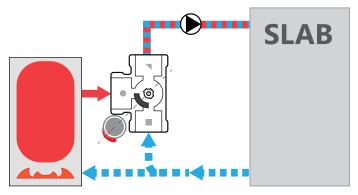


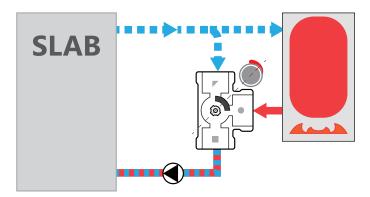
- 3. Determine the orientation that best suits your system piping.
- 4. Set the valve to the 50% mix position, with the indicator on the knob (or the blank edge of the stem) facing halfway between the two inlets. You can use the markings on the valve as reference when piping.

Use these diagrams as an example of possible valve orientations and to see how the piping and valve orientation affects the diverting paddle position.









Schematic simplified for illustration purposes; not all components are shown.



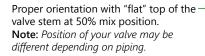
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### Mounting the 58131 Actuator

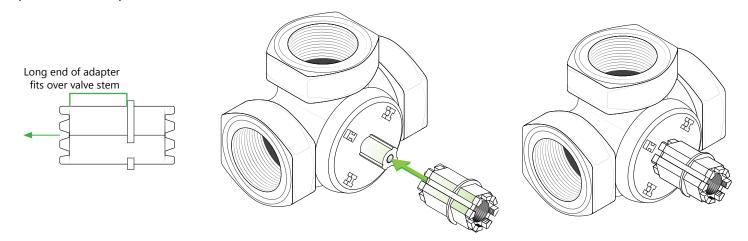
- 5. Check that you have the proper actuator: 58131 (ESBE part# ARA663)
- 6. Check all accessories are included with the actuator.



7. Remove and dispose of the factory mounted knob. *Ensure position is still at 50% mix.* 



8. Attach the plastic adapter included in the 58131 package to the valve stem. The flat spot on the adapter will line up with the flat spot on the stem.



9. Mount the 58131 actuator motor onto the valve - for readability it is best to mount the actuator motor as shown in the diagrams, (with the indicator at the "north" position) regardless of the valve orientation. The factory setting is at 50% mix. DO NOT change the position of the knob as this may lead to improper operation of the valve.

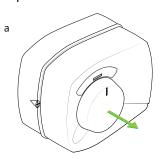
The actuator should be installed with the indicator pointing up and/or to the "North" position.

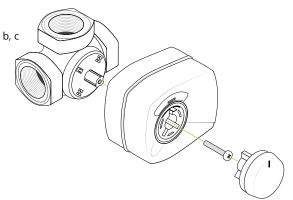


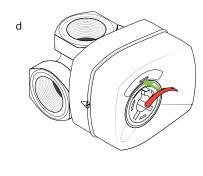
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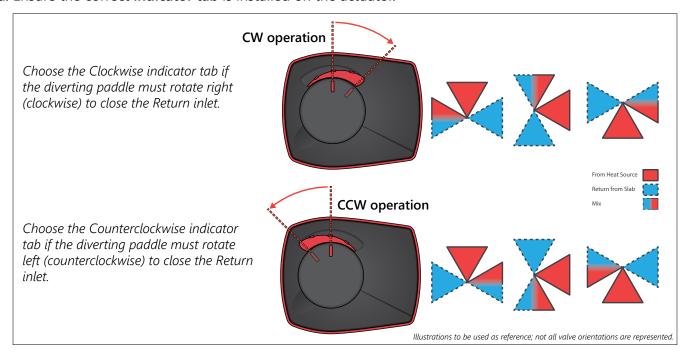
- a. Remove the knob by pulling it straight out.
- b. Secure the actuator motor to the valve using the included screw.
- c. Replace the indicator knob.



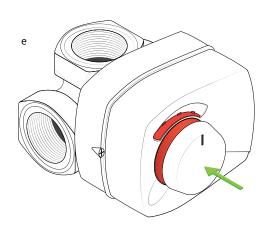




d. Ensure the correct indicator tab is installed on the actuator.



e. Ensure the knob is in the AUTO position. If not, turn the knob and push in until it "clicks" into place - no red should be visible around the base.



Note: The actuator knob is oriented to the position of the actuator and indicator, NOT the valve stem.



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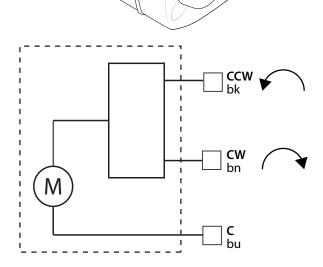
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10. Remove the cover.

Remove the screw holding the cover in place with a Philips – head screwdriver.

- 11. Wire the actuator to the controller (no power)
  - a. Black = CCW
  - b. Brown = CW
  - c. Blue = C
- 12. Power up the controller and the actuator.

Note: **Do Not** apply power to the actuator until it has been properly mounted to the valve as this may damage the internal workings of the actuator.



13. The actuator will move to fully open or fully closed from the default 50% open position depending on what the controller requests.

