

Installation Guide

Mounting

1. Clean the lines upstream from the valve. Remove any debris larger than 0.06" (0.015 mm).
2. Align the valve's flow indicator with the system (**mixing or diverting**—see below) flow.
3. Mount the valve so the actuator is positioned over valve.

⚠ CAUTION

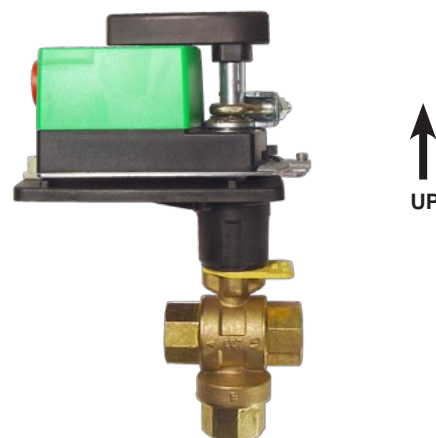
To prevent condensation from dripping onto the actuator housing, mount the valve with the actuator in the upright position or, at most, at a 45° angle.

4. Seal valves with approved pipe sealant.
5. Using two wrenches, secure the valve to the pipe. Torque should not exceed 75 ft-lbs. (102 N•m).
6. Eliminate air from the system to keep the valves full of fluid during operation.

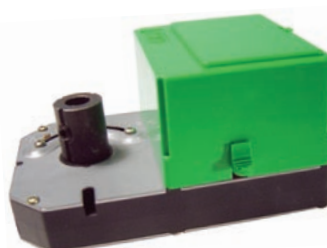
NOTE: If the system experiences large amounts of debris, steps should be taken to keep the system clean.

⚠ CAUTION

Using mineral oil lubricants or other incompatible substances in system fluids may damage EPDM rubber seals in valves. Before using any lubricant or additive in a water or ethylene glycol base, consult the substance manufacturer for compatibility with EPDM (Ethylene Propylene Diene Monomer).



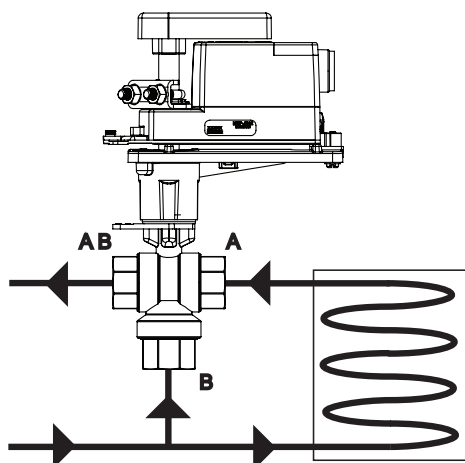
With MEP-4002 Actuator Installed



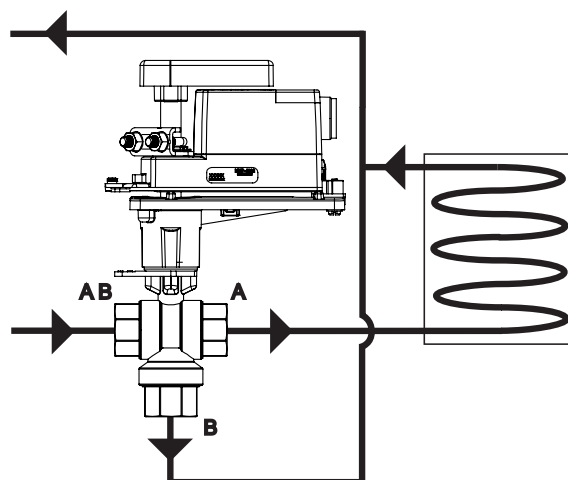
MEP-5372/5373 Actuator



MEP-4003 Actuator



MIXING Flow Action:
Full CCW = Port A to AB
Full CW = Port B to AB



DIVERTING Flow Action:
Full CCW = Port AB to A
Full CW = Port AB to B

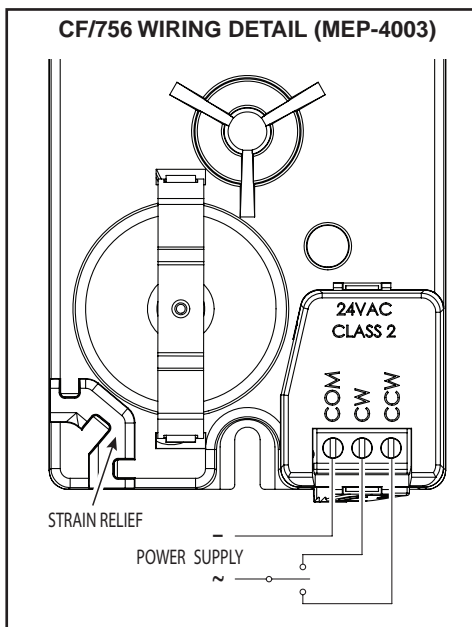
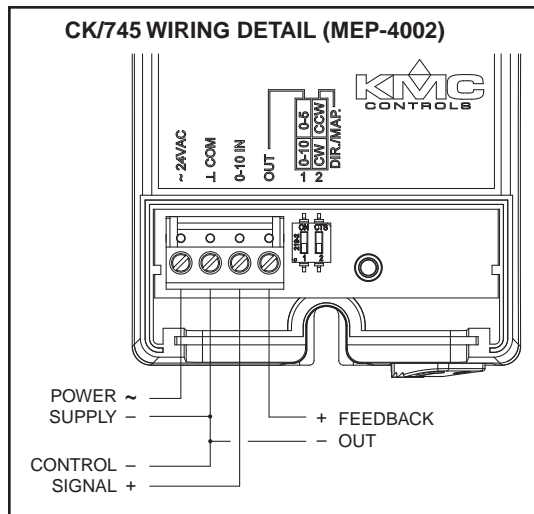
Wiring

NOTE: The last two digits of the VEB valve model number refer to the installed actuator model (e.g., VEB-46xxxCF has an MEP-4003 actuator). The last three digits of the older VEP valve model number refer to the installed actuator model (e.g., VEP-43xxx745 has an MEP-4002 actuator).

NOTE: For wiring and other information about actuators no longer sold with these valves, see the respective actuator's installation guide.

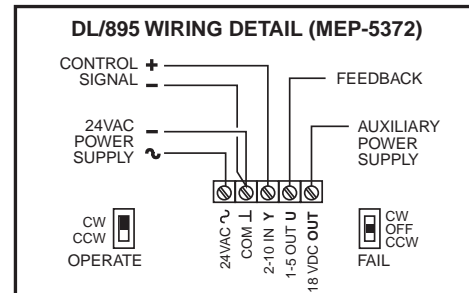
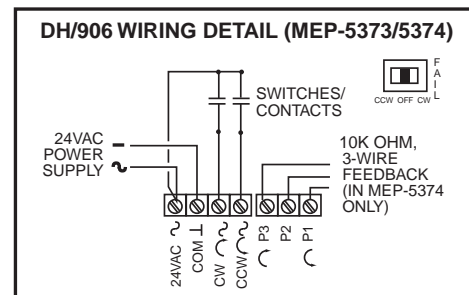
MEP-4000 Series Actuators

For additional instructions on wiring, feedback selector, and actuator/signal range reset (auto-mapping), see the installation guide for the MEP-4000/4800 series actuators.



MEP-5000 Series Actuator

Wire the actuator according to the relevant diagram. The actuator's wiring cover has two 5/8" diameter openings with shutter bushings to provide support for 0.125" through 0.4" diameter wire/cable. Use the HMO-4518 for 1/2" flexible conduit, the HMO-4520 compression connector for plenum cable, or the HMO-4526 female connector for 1/2" conduit. For additional instructions, see the installation guide for the relevant MEP-5000 series model actuator.



Operation

After the mechanical and electrical installations have been completed, cycle the actuator to verify the direction of rotation for normal operation and fail-safe if so equipped.

Maintenance

No routine maintenance is required. Each component is designed for dependable, long-term reliability, and performance. Careful installation will also ensure long-term reliability and performance.

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