

Installation Guide

Mounting

NOTE: To assemble a quick-mount "V" actuator on a valve body, see the **HPO-5074 Installation Guide** on the KMC web site.



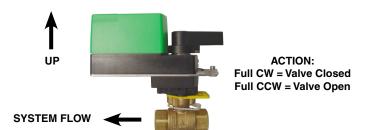
- 1. Clean the lines upstream from the valve. Remove any debris larger than 0.06" (0.015 mm).
- 2. Align the valve's flow indicator with the system flow.
- 3. Mount the valve so the actuator is positioned over valve.

A 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-lb. (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.

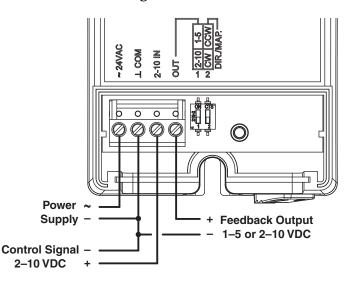


A CAUTION

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).

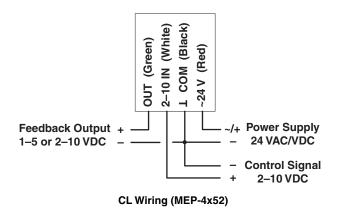
Wiring

NOTE: The installed actuator model is indicated by the last two digits of the VEB valve model number (e.g., VEB-43xxxxCK has an MEP-4002V actuator) and the last three digits of the older VEP valve model number (e.g., VEP-45xxx745 has an MEP-4002 actuator). For wiring and other information about tri-state and other actuators no longer sold mounted on these valves, see the respective actuator's installation guide on the KMC web site.



CK/745 Wiring (MEP-4002)

NOTE: Before January 2014, MEP-40x2/48x2 models had **0–10 VDC** inputs. They now have **2–10 VDC** inputs. When replacing an older 0–10 VDC actuator with a 2–10 VDC actuator, configure the connected controller or thermostat output to match.



More Information

For models, specifications, and additional information, see the VEB-43/VFB-43
Series Data Sheet on the KMC web site.



For additional instructions on wiring, feedback selector, and actuator/signal range reset (auto-mapping), see the MEP-4000/4800 Series Installation Guide or (fail-safe) MEP-4200/4500/4900 Series Installation Guide.

For non-fail-safe wiring, auxiliary switches, feed-back/direction selectors, actuator/signal range reset (auto-mapping), and other information, see the MEP-4000/4800 Series Installation Guide.



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.

For fail-safe wiring, auxiliary switches, feed-back/direction selectors, actuator/signal range reset (auto-mapping), and other information, see the MEP-4200/4500/4900 Series Installation Guide.



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.

Important Notices

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For information on assembling a quick-mount "V" actuator on a valve body, see the HPO-5074 Installation Guide.



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