

Installation Guide

Mounting

1. Clean the lines upstream from the valve. Remove any debris (welding slag, pipe scale, or other contaminants) larger than 1/16 inch (1.6 mm).

NOTE: If the system experiences large amounts of debris, steps should be taken to keep the system clean, such as 20 mesh strainer installed upstream of the valve.

2. Align the valve assembly according to the system flow requirements (see the illustration below).
3. The valve may be mounted on either vertical or horizontal pipe lines. On horizontal lines, mount the valve so the actuator is positioned upright

and over the valve. (Leave sufficient room on all sides to service the actuator and valve.)

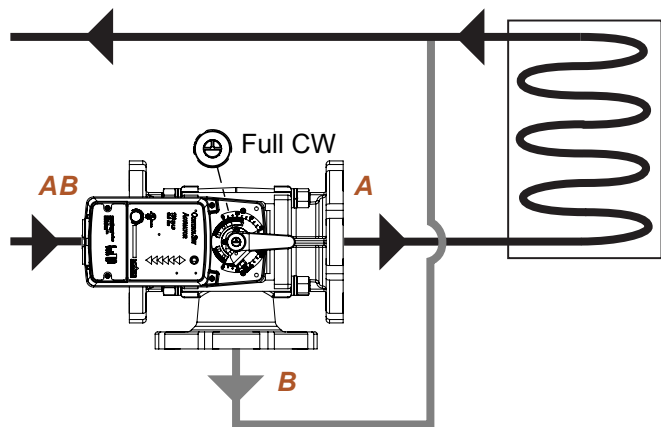
⚠ CAUTION

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

4. Install approved flange gaskets (not supplied by KMC Controls) and bolt the valve to the pipes.
5. Eliminate air from the system to keep the valves full of fluid during operation.

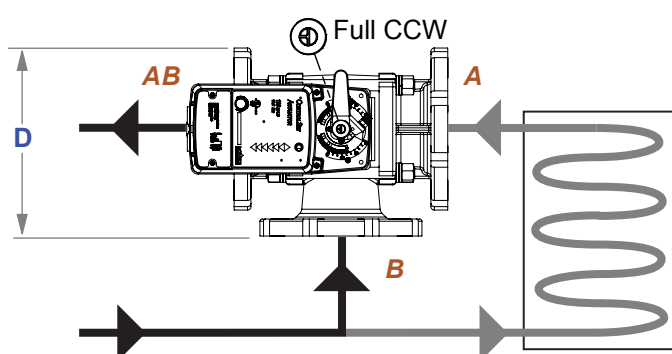
Diverting Flow Action:

Port 'AB' to Port 'A'—full CW; Port 'AB' to 'B'—full CCW



Mixing Flow Action:

Port 'A' to Port 'AB'—full CW; Port 'B' to 'AB'—full CCW

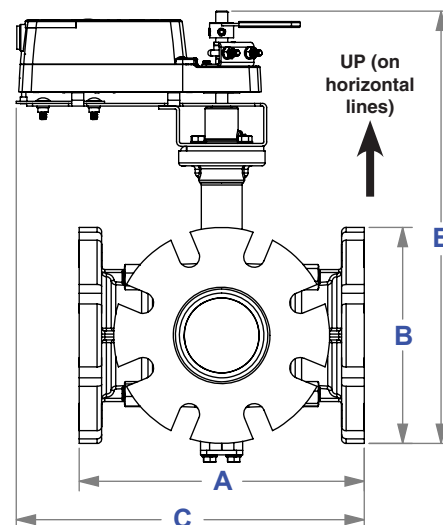


Dimensions (Inches):

Size	A	B	C	D	E	Weight (lb.)
4"	11.875	9	14.5	10.375	18	80
5"	13.875	10	15.5	12	18.875	95
6"	15.875	11	16.5	13.375	20	110

⚠ 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

Wiring is dependent on the type of actuator and the desired options that are available. Consult the actuator model label and then the relevant sections in the [MEP-7200/7500/7800 Series Actuators Installation Guide](#) for detailed instructions on the applicable wiring, feedback selector, and actuator/signal range reset (auto-mapping) of the valve's 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. The motors are permanently lubricated. Careful installation will also ensure long term reliability and performance.

Accessories/Repair Parts

CME-7001	Rotary aux. cam switch, single
CME-7002	Rotary aux. cam switch, double
HMO-4536	Adjustable stop kit
MEP-7xxx	Replacement actuator (see label on actuator or data sheet)

NOTE: For more information, see the data sheets for the [VEB-56 series valves](#), [MEP-7200/7500/7800 series actuators](#), and the [CME-7001/7002 switches](#).

Models and Specifications

VEB-56 XXX S YY

Actuator Model

(On 4 and 5 inch valves)

FF: Tri-state (MEP-7201, 120 in-lb.)
FK: 0–10 VDC (MEP-7202, 120 in-lb.)
FH: Fail-safe, tri-state (MEP-7251, 120 in-lb.)
FL: Fail-safe, 0–10 VDC (MEP-7252, 120 in-lb.)
(On 6 inch valves only)
GF: Tri-state (MEP-7501, 180 in-lb.)
GK: 0–10 VDC (MEP-7502, 180 in-lb.)
GH: Fail-safe, tri-state (MEP-7551, 180 in-lb.)
GL: Fail-safe, 0–10 VDC (MEP-7552, 180 in-lb.)

Pipe Size/Cv

16A: 4"/91	20D: 5"/309
16B: 4"/118	20E: 5"/400
16C: 4"/152	24A: 6"/208
16D: 4"/197	24B: 6"/268
16E: 4"/254	24C: 6"/346
16F: 4"/327	24D: 6"/441
20A: 5"/144	24E: 6"/577
20B: 5"/185	24F: 6"/650
20C: 5"/240	

For specifications, see the [VEB-56 Series Data Sheet](#).



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