

## VE VMP Electronic 2-Way and 3-Way Valves

### Product Description

The VMP Electronic 2-Way and 3-Way Valves control water and glycol solutions. Removal of the cap from the bottom bypass port (III) converts this valve assembly to a 3-way valve.

### Product Numbers

VMP42.09(2) through VMP42.14(2)

### Required Tools

- Adjustable wrench
- 1/8-inch small flat blade screwdriver

### Prerequisites



#### CAUTION:

Make certain that the piping system is free of dirt and foreign particles before startup and troubleshooting valves.

### Strainer Guidelines

- 80 mesh for Cv 0.47 (Kvs 0.4) and smaller (VMP42.09 and VMP42.10)
- 60 mesh for Cv 0.74 (Kvs 0.63) and larger (VMP42.11 through VMP42.14)

### Application

#### Two-Port Valves

The arrow on the valve indicated the direction of flow. Direction of flow is always from II (A) to I (AB).

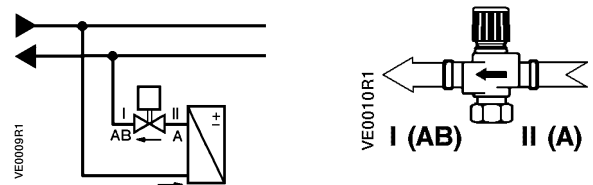


Figure 2. Direction of Flow with 2-Way Valves.

#### Three-Port Valves

These valves must always be used as mixing valves. The arrow on the valve indicates the direction of flow. Direction of flow is from II (A) and III (B) to I (AB).

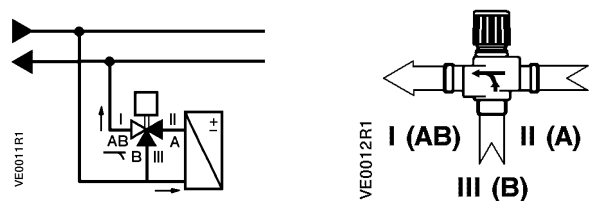


Figure 3. Direction of Flow with 3-Way Valves.

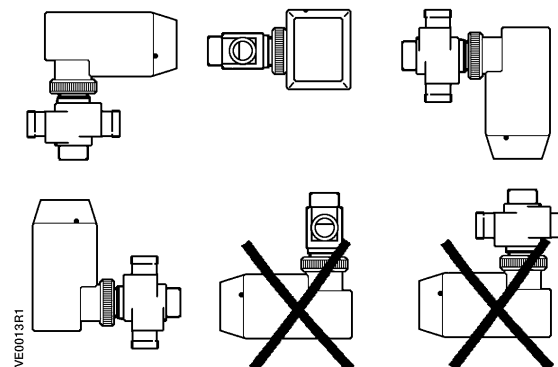


Figure 1. Mounting Positions.

## Expected Installation Time

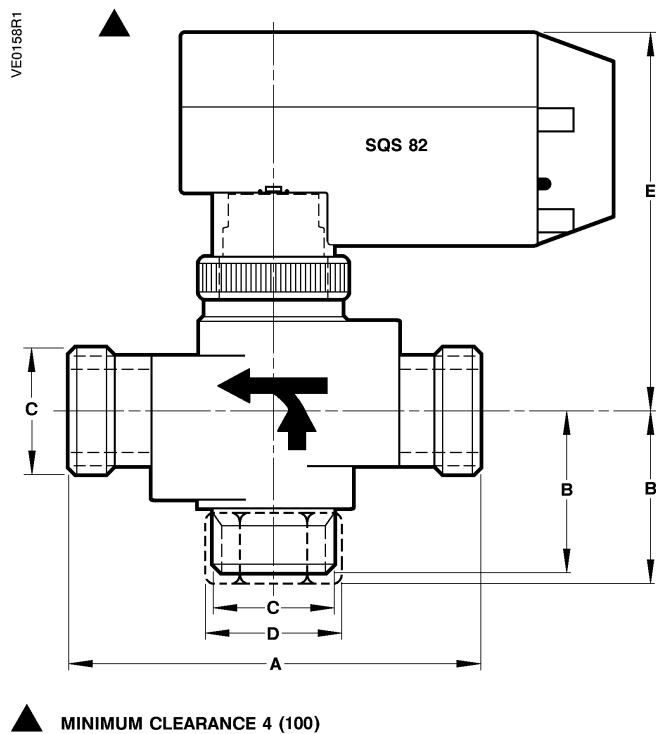
22 Minutes

## Installation

- The valve assembly should mount in the return.
- The assembly can mount in any position except with the actuator beneath the valve. *Figure 1* shows allowable mounting positions.

- Match the direction of flow with the symbol cast on the valve body.
- Minimum clearance above the actuator is 4 inches (100 mm).
- The valve has a protective plastic cap to allow manual positioning of the valve.

**NOTE:** Do not discard the plastic cap. It may be needed during troubleshooting or for emergency valve operation.



**Table 1. Dimensions of the VMP Valve Assembly.**

| Nominal Valve Size<br>Inches (mm) | A           | B          | B*           | C        | D           | E          |
|-----------------------------------|-------------|------------|--------------|----------|-------------|------------|
| 1/2 (15)                          | 3-5/16 (84) | 1-3/8 (35) | 1-11/16 (42) | 1/2" NPT | 15/16 (24)  | 3-1/2 (89) |
| 3/4 (20)                          | 4 (100)     | 1-5/8 (41) | 1-7/8 (48)   | 3/4" NPT | 1-3/16 (30) | 3-5/8 (92) |

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