

### Description

These Zone Control Valves are designed to regulate flow of hot or chilled water in VAV terminal unit reheat coils, fan coil units, and induction units.

Their compact size allows easy installation in small enclosures. The fully enclosed electric actuator has heat resistant lead-wires and is readily installed or removed via a screw-on ring nut.

These valves utilize three different types of actuators: The MEP-3001 (24 VAC) is used for systems requiring fail-safe (full flow) to system return. The MEP-3006 (24 VAC) is used for systems requiring fail-safe (full flow) to the coil. Both units utilize a PTC thermal element for dependable long-life and noise-free operation.

The MEP-3010, tri-state actuator, requires separate 24 VAC signals to drive the actuator open or closed. With both signals off, the actuator is motionless.

The MEP-3011 (2-10 VDC) and MEP-3016 (10-2 VDC) proportional actuators require a 24 VAC power source. The input signals drive the actuator from closed to open, and powers down at the full open or closed position. These proportional actuators also recalibrate the closed to open stroke to the control signal after 4000 cycles, or after a power failure.

### Features

- ◆ Choice of three actuator types
- ◆ Fully enclosed electric actuator
- ◆ Compact Size

### Models

The following models are available:

|              |                                 |
|--------------|---------------------------------|
| VEP-34190186 | 2 Position, Fail-safe to return |
| VEP-37190186 | 2 Position, Fail-safe to coil   |
| VEP-34190194 | 10 to 2 VDC                     |
| VEP-34190195 | 2 to 10 VDC                     |
| VEP-34190196 | Tri-State                       |

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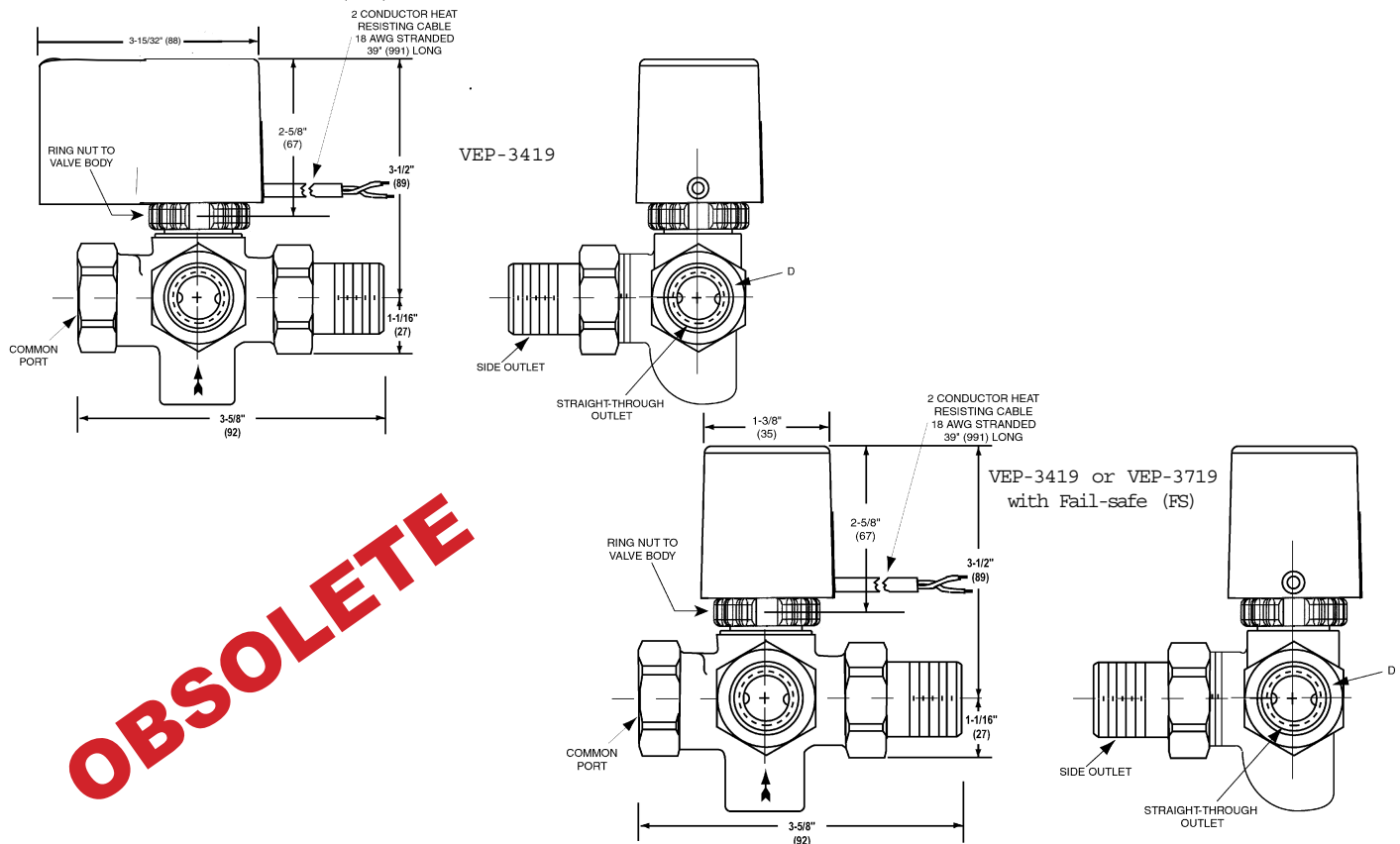
### Accessories/Repair Parts

The following accessories and repair parts are available for these models:

|          |  |
|----------|--|
| HMO-4530 | Flexible conduit connector for MEP-3001/3006 |
| HPO-5034 | 1/2" bonnet assembly                         |
| HPO-5058 | 1/2" union nut                               |
| HPO-5059 | 1/2" MPT union                               |
| HPO-5069 | 1/2" replacement disc                        |
| MEP-3001 | 24 VAC, Normally closed for VEP-34190186     |
| MEP-3006 | 24 VAC, Normally open for VEP-37190186       |
| MEP-3010 | 24 VAC, Tri-state for VEP-34190196           |
| MEP-3011 | 24 VAC, 2 to 10 VDC input for VEP-34190195   |
| MEP-3016 | 24 VAC, 10 to 2 VDC input for VEP-34190194   |

## Details

Dimensions in inches (mm)



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## Specifications

**Cv Rating** 1.7 Cv

**Maximum Differential**

Side outlets have metal to metal seat and are not leak tight.

|                |  |
|----------------|--|
| MEP-3001/3006  | 50 psi (344 kPa) common to straight-through outlet |
| MEP-3010/11/16 | 76 psi (524 kPa) common to straight-through outlet |

### Actuator Inputs

|            |                   |
|------------|-------------------|
| MEP-3001/6 | On/Off, 24 VAC    |
| MEP-3010   | Tri-state, 24 VAC |
| MEP-3011   | 2 to 10 VDC       |
| MEP-3016   | 10 to 2 VDC       |

### Power Requirements

|             |                              |
|-------------|------------------------------|
| MEP-3001/6  | 24 VAC @ 3 VA (10VA in-rush) |
| MEP-3010    | 24 VAC +25/-10% @ 0.7 VA     |
| MEP-3011/16 | 24 VAC +25/-35% @ 1.5 VA     |

### Stroke Timing

|             |             |
|-------------|-------------|
| MEP-3001/6  | 180 seconds |
| MEP-3010    | 140 seconds |
| MEP-3011/16 | 50 seconds  |

### Body Ratings

|                                      |
|--------------------------------------|
| 168 psi (1163 kPa) @ 212° F (100° C) |
| 232 psi (1599 kPa) @ 35.6° F (2° C)  |

### Connections

|         |          |
|---------|----------|
| Inlet   | 1/2" FPT |
| Outlets | 1/2" MPT |

### Material

|               |                 |
|---------------|-----------------|
| Body and Seat | Bronze          |
| Packing       | Double O-ring   |
| Disc          | EPDM            |
| Stem          | Stainless steel |

### Weight

1.35 lbs. (.612 kg)

### Temperature Limits

|          |                                |
|----------|--------------------------------|
| Medium   | 35.6° to 212° F (2° to 100° C) |
| Ambient  | 32° to 120° F (0° to 49° C)    |
| Shipping | 0° to 140° F (-18° to 60° C)   |

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