Two-Way Zone Valve
Economical, Manual Override

ZV1 Series Zone Valves are ideal for flow control in hot and cold water HVAC systems. Zone valves are typically used in conjunction with a thermostat to control room temperature. The ZV1 is electrically driven to open and spring to close. Units are available in 1/2", 3/4", and 1" sizes with 24 or 120 VAC power supply. Easy to install these units are direct replacements for competitor units. Manual override lever is easily accessible externally. Consult factory for 220 VAC power supply, optional auxiliary switches, and BSP or sweat connections.

### SPECIFICATIONS

- **Service:** Compatible fluids.
- **Body:** 2-way.
- **Line Size:** 1/2" to 1".
- **End Connections:** Female NPT (optional BSP, sweat connections).
- **Pressure Limits:**
  - Maximum: 300 psi (20.7 bar);
  - Close-off: 22 psi (1.5 bar), 14.5 psi (1 bar).
- **Temperature Limits:**
  - Ambient: 32 to 104°F (0 to 40°C);
  - Process: 32 to 201°F (0 to 94°C).
- **Wetted Materials:** Brass, SS, NBR.
- **Flow Characteristic:** Quick opening.
- **Power Requirements:** 120 VAC or 24 VAC, ±10%, 50/60 Hz (optional 220 VAC).
- **Power Consumption:** 6.5 W.
- **Input:** On/off.
- **Electrical Connection:** 22 AWG, 5˝ (127 mm) long.
- **Cycle Time:**
  - Opening time: 11 s;
  - Closing time: 5 s.
- **Enclosure Rating:** General purpose.
- **Housing Material:** Aluminum.

<table>
<thead>
<tr>
<th>Model</th>
<th>Normally Open</th>
<th>Normally Closed</th>
<th>Cv</th>
<th>Size</th>
<th>Supply Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZV1022-NO</td>
<td>ZV1022</td>
<td>3.78</td>
<td>1/2&quot;</td>
<td>120 VAC</td>
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<tr>
<td>ZV1024-NO</td>
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<tr>
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<td>ZV1032</td>
<td>3.78</td>
<td>3/4&quot;</td>
<td>120 VAC</td>
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<tr>
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<td>ZV1034</td>
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<td>3/4&quot;</td>
<td>24 VAC</td>
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<tr>
<td>ZV1042-NO</td>
<td>ZV1042</td>
<td>8.02</td>
<td>1&quot;</td>
<td>120 VAC</td>
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<tr>
<td>ZV1044-NO</td>
<td>ZV1044</td>
<td>8.02</td>
<td>1&quot;</td>
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</tbody>
</table>

Three-Way Zone Valve
Economical, Manual Override

3ZV1 Series Zone Valves are ideal for flow control in hot and cold water HVAC systems. The 3ZV1 is electrically driven to open and spring to close. Units are available in 1/2", 3/4", and 1" sizes with 24 or 120 VAC power supply. Easy to install these units are direct replacements for competitor units. Manual override lever is easily accessible externally. Consult factory for 220 VAC power supply, optional auxiliary switches, and BSP or sweat connections.

### SPECIFICATIONS

- **Service:** Compatible fluids.
- **Body:** 3-way.
- **Line Size:** 1/2" to 1".
- **End Connections:** Female NPT (optional BSP, sweat connections).
- **Pressure Limits:** Maximum: 300 psi (20.7 bar);
- Close-off: see model chart.
- **Temperature Limits:** Ambient: 32 to 104°F (0 to 40°C);
  Process: 32 to 201°F (0 to 94°C).
- **Wetted Materials:** Brass, SS, NBR.
- **Flow Characteristic:** Quick opening.
- **Power Requirements:** 120 VAC or 24 VAC, ±10%, 50/60 Hz (optional 220 VAC).
- **Power Consumption:** 6.5 W.
- **Input:** On/off.
- **Electrical Connection:** 22 AWG, 5" (127 mm) long.
- **Cycle Time:** Opening time: 11 s; Closing time: 5 s.
- **Enclosure Rating:** General purpose.
- **Housing Material:** Aluminum.

<table>
<thead>
<tr>
<th>Model</th>
<th>Cv</th>
<th>Size</th>
<th>Supply Voltage</th>
<th>Close-off Pressure psi (bar)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3ZV1022</td>
<td>3.78</td>
<td>1/2&quot;</td>
<td>120 VAC</td>
<td>22 (1.5)</td>
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<tr>
<td>3ZV1024</td>
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<td>1/2&quot;</td>
<td>24 VAC</td>
<td>22 (1.5)</td>
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<tr>
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<td>3.78</td>
<td>3/4&quot;</td>
<td>120 VAC</td>
<td>14.5 (1.0)</td>
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<tr>
<td>3ZV1034</td>
<td>3.78</td>
<td>3/4&quot;</td>
<td>24 VAC</td>
<td>14.5 (1.0)</td>
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<tr>
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<td>1&quot;</td>
<td>120 VAC</td>
<td>10 (.70)</td>
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<tr>
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<td>1&quot;</td>
<td>24 VAC</td>
<td>10 (.70)</td>
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