## CQK... Actuators with ZoneTight Zone Valves

### 1. QCV

<table>
<thead>
<tr>
<th>Size</th>
<th>Valve Model</th>
<th>V' max End Stop Positions</th>
<th>V' nom</th>
<th>Runtime (seconds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot;</td>
<td>Z2050(Q(S)-F)</td>
<td>0.1 0.2 0.4 0.6 0.8 1.2</td>
<td>1.4</td>
<td>30</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>Z2050Q(S)-J</td>
<td>0.5 0.7 1.2 1.7 2.4 3</td>
<td>4.8 5.9</td>
<td>37</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>Z2075Q(S)-K</td>
<td>0.5 1.0 1.5 2.3 3.3 4.6</td>
<td>6.6 9.8</td>
<td>41</td>
</tr>
</tbody>
</table>

### 1. PIQCV

<table>
<thead>
<tr>
<th>Valve Model (1/2&quot;)</th>
<th>Clip Position for Flow Adjustment (GPM)</th>
<th>Clip</th>
<th>1+</th>
<th>2-</th>
<th>2+</th>
<th>3-</th>
<th>3+</th>
<th>4-</th>
<th>4+</th>
<th>4+</th>
<th>5-</th>
<th>5+</th>
<th>6-</th>
<th>6+</th>
<th>N-</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z2050QPT-B</td>
<td>0.1</td>
<td>0.2</td>
<td>0.3</td>
<td>0.4</td>
<td>0.5</td>
<td>0.6</td>
<td>0.7</td>
<td>0.8</td>
<td>0.9</td>
<td>1.0</td>
<td>1.2</td>
<td>1.3</td>
<td>1.5</td>
<td>1.6</td>
<td>1.8</td>
<td>2.0</td>
</tr>
<tr>
<td>Z2050QPT-D</td>
<td>0.2</td>
<td>0.3</td>
<td>0.4</td>
<td>0.5</td>
<td>0.6</td>
<td>0.7</td>
<td>0.8</td>
<td>0.9</td>
<td>1.0</td>
<td>1.2</td>
<td>1.3</td>
<td>1.5</td>
<td>1.6</td>
<td>1.8</td>
<td>2.0</td>
<td></td>
</tr>
<tr>
<td>Z2050QPT-F</td>
<td>0.6</td>
<td>0.7</td>
<td>0.8</td>
<td>0.9</td>
<td>1.0</td>
<td>1.3</td>
<td>1.5</td>
<td>1.7</td>
<td>1.9</td>
<td>2.2</td>
<td>2.5</td>
<td>2.8</td>
<td>3.1</td>
<td>3.3</td>
<td>3.6</td>
<td>4.3</td>
</tr>
</tbody>
</table>

### QCV/PIQCV Actuator Removal

Pull Straight Up. Do not Twist to Remove.
WARNING:
This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to

www.P65Warnings.ca.gov
WIRING DIAGRAMS

CQK... Actuators with ZoneTight Zone Valves

**CQK..24V, CQKB24 (-RR) (-LL), CQKB24-S (-RR) (-LR), CQKB4-SR (-RR) (-RL), CQKBUP (-RR) (-LL)**

**On/Off, CQKB24-RR, CQKBUP-RR**

**On/Off, CQKB24-LL, CQKBUP-LL**

**On/Off, CQKB24-S-RR**

**On/Off, CQKB24-S-LL**

**Proportional, CQKB24-SR-LL**

**Proportional, CQKB24-SR-RR**

**Proportional, CQKB24-SR-LR**

**Notes:**

- Actuators with appliance cables are numbered.
- Meets cULus requirements without the need of an electrical ground connection
- Apply only AC line voltage or only UL-Class 2 voltage to the terminals of auxiliary switches. Mixed or combined operation of line voltage/safety extra low voltage is not allowed.
- Provide overload protection and disconnect as required.
- Actuators may be connected in parallel. Power consumption and input impedance must be observed.
- Actuators may also be powered by 24 VDC.
- Only connect common to neg. (-) leg of control circuits.
- A 500 Ω (2Ω-R01) converts the 4 to 20 mA control signal to 2 to 10 VDC.
- Actuators with plenum rated cable do not have numbers on wires; use color codes instead.
- One built-in auxiliary switch, 1x SPST 1A @ 24 VAC/DC (resistive load), for end position indication, interlock control, fan startup, etc.