Application and Design
The CVP Plus is an enhanced Constant Volume Regulator that accurately controls the maximum volume of air supplied into and exhausted from a space. The CVP Plus has an innovative spring-loaded damper that reacts to the air velocity moving through. As velocity increases, the blade moves toward closed to restrict the free area and deliver only the desired volume of air. The CVP Plus is accurate to ± 10% of setpoint in systems with a pressure range of 0.2” – 2.0 InWC. Maximum volume is easily established by setting the adjustment arm to the desired air volume, calibrated in CFM, on the front of the regulator. See inset right.
The CVP Plus uses no electricity. It is constructed of anti-microbial resins to resist the growth of mold and bacteria. Rubber gaskets around the perimeter of the damper ensure a tight, low leak seal when installed in round duct.
Accurately regulating the volume of air supplied to and exhausted from a space will save energy, improve comfort, and help achieve the indoor air quality requirements of today’s ventilation guidelines.

The CVR Plus pressure range 0.2 to 2.0 InWC.

The CVPF8 features a heavy duty 24ga galvanized steel enclosure 8” tall to accommodate a fire damper. See table on back for Dimensions. Custom sizes available.

Now Available with a White Aluminum Grille (40° Fixed Vanes)

<table>
<thead>
<tr>
<th>STANDARD CONSTRUCTION</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Housing Material</td>
<td>Anti-Microbial ABS</td>
</tr>
<tr>
<td>Sheet Metal Fitting</td>
<td>2” deep 24 ga</td>
</tr>
<tr>
<td>Pressure Range</td>
<td>0.2 to 2.0 InWC</td>
</tr>
<tr>
<td>Available Sizes</td>
<td>CVP04 25 to 130 CFM</td>
</tr>
<tr>
<td></td>
<td>CVP05 25 to 130 CFM</td>
</tr>
<tr>
<td></td>
<td>CVP06 50 to 275 CFM</td>
</tr>
<tr>
<td>Perimeter Gasket</td>
<td>T-Shaped for a snug fit</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>COUNTRY OF ORIGIN</th>
<th>100% American Made</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>LAB CERTIFIED</th>
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</thead>
<tbody>
<tr>
<td>UL 2043 Tested and Classified</td>
<td>Heat release rate and smoke optical density</td>
</tr>
<tr>
<td>Lab Calibrated Adjustment Slider</td>
<td>ANSI/AMCA 500-D-12</td>
</tr>
<tr>
<td>Blanket Style Ceiling Radiation Damper Available 3hr @165</td>
<td>California State Fire Marshal Listed</td>
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<tr>
<td>UL 555C</td>
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<table>
<thead>
<tr>
<th>OPTIONS</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Fire or Radiation Damper</td>
<td>Grille or Not</td>
</tr>
<tr>
<td>Supply or Exhaust</td>
<td>CVR or CVP</td>
</tr>
</tbody>
</table>
CVP0x - Regulator by itself

\[ x = \text{Diameter} \]
- 4” 25-130 CFM
- 5” 25-130 CFM
- 6” 50-275 CFM

**Design Your own Parts!**

We need to know 5 things:

1. Direction - Supply or Return
2. Flow/Diameter
3. Grille?
4. Fire/Radiation Damper?
5. Grille Face Dimensions

**Product Design Matrix**

<table>
<thead>
<tr>
<th>Part #</th>
<th>Dia. Ø</th>
<th>Flow</th>
<th>Standard* Grille Size</th>
<th>Min. Height</th>
<th>Height w/CRD</th>
<th>CVP “C”</th>
<th>Supply Exhaust</th>
<th>Fire Damper</th>
<th>Grille</th>
<th>QTY</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CVPF8-x04</td>
<td>4”</td>
<td>30-130 CFM</td>
<td>6x6</td>
<td>8”</td>
<td>8”</td>
<td>3.5”</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CVPF8-x05</td>
<td>5”</td>
<td>25-130 CFM</td>
<td>6x6</td>
<td>8”</td>
<td>8”</td>
<td>4.0”</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>CVPF8-x06</td>
<td>6”</td>
<td>50-275 CFM</td>
<td>8x8</td>
<td>8”</td>
<td>10”</td>
<td>5.5”</td>
<td></td>
<td></td>
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<td></td>
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</tr>
</tbody>
</table>

* Other Sizes available - Contact your YR Account Rep for details

**CVP with Fitting**

CVP Product Family
- Fitting Depth
- Supply/Return
- Diameter
- Grille?
- Grille Face Size
- Side Tap?

**Which Constant Volume Regulator is Right?**

**CVR** or **CVP**

- Low/Med/High Pressure
  - 0.2 - 1.0 InWC
  - Multiple Ranges
  - 3”, 4”, 5”, 6”, 8”, 10” Sizes
  - Factory Set
  - Calibrated in M³/hr
  - Conversion chart provided
  - UL 2043
  - Value Brand
  - Anti-Microbial Polymers
  - Made in America

- One Unit does it all
  - 0.2 - 2.0 InWC
  - 4”, 5”, 6” - 8” Spring 2019
  - No-Tool field adjustable
  - Calibrated in CFM
  - UL2043

**Performance Curves**

Click or www.youngregulator.com/cvp-performance

24 gauge galvanized Steel throughout

- 0.75” flanges
- 4 plcs typical

- Ceiling Radiation Damper (CRD)

- Grille Height
- Grille Width

- CVP installed in Steel Sleeve

Enclosure Details

- 24 gauge galvanized Steel throughout

- 0.75” flanges
- 4 plcs typical

- Ceiling Radiation Damper (CRD)

- Grille Height
- Grille Width