Features:
- Flat composite design with single hinge bursting pattern
- Designed to be non-fragmenting
- Interchangeable with existing vent installations
- Materials: SST/TFE/SST
- Square, Rectangular, and Round configurations
- Burst ratings from 0.50 to 8.00 psi (Contact ZOOK for greater pressures)
- 0% Manufacturing range is standard
- CV vents have no moving parts, therefore are maintenance free
- Custom sizes and materials available upon request

Options:
- Integral Burst Indications
- Gaskets

### Operating Specifications

<table>
<thead>
<tr>
<th></th>
<th>CV-F</th>
<th>CV-FS</th>
<th>CV-FSB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Operating Pressure</td>
<td>60%</td>
<td>60%</td>
<td>60%</td>
</tr>
<tr>
<td>Max Vacuum Rating</td>
<td>50% of $P_{stat}$</td>
<td>$=$ to $P_{stat}$</td>
<td>$&gt;$ $P_{stat}$</td>
</tr>
<tr>
<td>Maximum Temperature</td>
<td>500°F (260°C)</td>
<td>500°F (260°C)</td>
<td>500°F (260°C)</td>
</tr>
</tbody>
</table>

### Burst Pressure Tolerance

<table>
<thead>
<tr>
<th>Relieving Pressure</th>
<th>Tolerance</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.50 to 0.99 psi</td>
<td>±0.33 psi</td>
</tr>
<tr>
<td>1.00 to 3.99 psi</td>
<td>±0.50 psi</td>
</tr>
<tr>
<td>4.00 to 8.00 psi</td>
<td>±1.00 psi</td>
</tr>
</tbody>
</table>

*Calculation based on low end of burst pressure tolerance*

**CV-F**
- Design offers 100% venting area

**CV-FS**
- Designed with integral support to withstand vacuum or back-pressure up to the static burst pressure of the vent panel

**CV-FSB**
- Designed to be used with support bars in the inlet frame, used when vacuum or backpressure exceeds the static burst pressure of the vent panel

All ZOOK explosion vents are tested in accordance with the National Fire Protection Association standard NFPA 68 and meet the low mass per unit area requirement “The weight of the vent closure shall not exceed 2.5 lbs/sq. ft. of free vent area.”
## Standard Vent Panel Sizes

### Square / Rectangular

<table>
<thead>
<tr>
<th>Nominal Size</th>
<th>Relief Area*</th>
<th>Minimum Burst Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inches</td>
<td>cm</td>
<td>sq. in.</td>
</tr>
<tr>
<td>9 X 12</td>
<td>23 X 30</td>
<td>88</td>
</tr>
<tr>
<td>12 X 12</td>
<td>30 X 30</td>
<td>121</td>
</tr>
<tr>
<td>12 X 18</td>
<td>30 X 46</td>
<td>187</td>
</tr>
<tr>
<td>12 X 24</td>
<td>30 X 61</td>
<td>253</td>
</tr>
<tr>
<td>18 X 18</td>
<td>46 X 46</td>
<td>289</td>
</tr>
<tr>
<td>18 X 24</td>
<td>46 X 61</td>
<td>391</td>
</tr>
<tr>
<td>18 X 30</td>
<td>46 X 76</td>
<td>493</td>
</tr>
<tr>
<td>18 X 35</td>
<td>46 X 89</td>
<td>578</td>
</tr>
<tr>
<td>24 X 24</td>
<td>61 X 61</td>
<td>529</td>
</tr>
<tr>
<td>24 X 30</td>
<td>61 X 76</td>
<td>667</td>
</tr>
<tr>
<td>24 X 36</td>
<td>61 X 91</td>
<td>805</td>
</tr>
<tr>
<td>24 X 44</td>
<td>61 X 112</td>
<td>989</td>
</tr>
<tr>
<td>30 X 30</td>
<td>76 X 76</td>
<td>841</td>
</tr>
<tr>
<td>30 X 36</td>
<td>76 X 91</td>
<td>1015</td>
</tr>
<tr>
<td>30 X 40</td>
<td>76 X 102</td>
<td>1131</td>
</tr>
<tr>
<td>30 X 44</td>
<td>76 X 112</td>
<td>1247</td>
</tr>
<tr>
<td>36 X 36</td>
<td>91 X 91</td>
<td>1225</td>
</tr>
<tr>
<td>36 X 44</td>
<td>91 X 112</td>
<td>1505</td>
</tr>
<tr>
<td>44 X 44</td>
<td>112 X 112</td>
<td>1849</td>
</tr>
<tr>
<td>44 X 69</td>
<td>112 X 175</td>
<td>2924</td>
</tr>
</tbody>
</table>

### Round

<table>
<thead>
<tr>
<th>Nominal Size (diameter)</th>
<th>Relief Area*</th>
<th>Minimum Burst Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inches</td>
<td>cm</td>
<td>sq. in.</td>
</tr>
<tr>
<td>8</td>
<td>20</td>
<td>38</td>
</tr>
<tr>
<td>10</td>
<td>25</td>
<td>64</td>
</tr>
<tr>
<td>12</td>
<td>30</td>
<td>95</td>
</tr>
<tr>
<td>14</td>
<td>36</td>
<td>133</td>
</tr>
<tr>
<td>16</td>
<td>41</td>
<td>177</td>
</tr>
<tr>
<td>18</td>
<td>46</td>
<td>227</td>
</tr>
<tr>
<td>20</td>
<td>51</td>
<td>284</td>
</tr>
<tr>
<td>24</td>
<td>61</td>
<td>415</td>
</tr>
<tr>
<td>30</td>
<td>76</td>
<td>661</td>
</tr>
<tr>
<td>32</td>
<td>81</td>
<td>755</td>
</tr>
<tr>
<td>36</td>
<td>91</td>
<td>962</td>
</tr>
<tr>
<td>40</td>
<td>102</td>
<td>1195</td>
</tr>
<tr>
<td>42</td>
<td>107</td>
<td>1320</td>
</tr>
<tr>
<td>44</td>
<td>112</td>
<td>1452</td>
</tr>
</tbody>
</table>

For larger sizes or sizes not shown, contact ZOOK.

*Relief area is based on relieving area of CV-F type vent panel. Actual relief area will be reduced on other vent types or if support bars are used in inlet frame. Contact ZOOK for more information.