

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
- Manufactured to mount into standard angle frames
- Custom sizes and materials available upon request

Options:

- Integral Burst Indication
- Insulation
- Gaskets



| Operating Specifications | CV-F | CV-FS | CV-FSB |
|-------------------------------------|--------------------------|------------------------|---------------------|
| Max Operating Pressure ¹ | 60% | 60% | 60% |
| Max Vacuum Rating | 50% of P _{stat} | = to P _{stat} | > P _{stat} |
| Maximum Temperature | 500°F (260°C) | 500°F (260°C) | 500°F (260°C) |
| Burst Pressure Tolerance | Relieving Pressure | | Tolerance |
| | 0.50 to 0.99 psi | | ±0.33 psi |
| | 1.00 to 3.99 psi | | ±0.50 psi |
| | 4.00 to 8.00 psi | | ±1.00 psi |

¹Calculation 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 back-pressure 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

| Nominal Size | | Relief Area* | | Minimum Burst Pressure | |
|--------------|-----------|--------------|---------|------------------------|------|
| Inches | cm | sq. in. | sq. cm. | psig | bar |
| 9 X 12 | 23 X 30 | 88 | 568 | 2.0 | 0.14 |
| 12 X 12 | 30 X 30 | 121 | 781 | 2.0 | 0.14 |
| 12 X 18 | 30 X 46 | 187 | 1206 | 1.5 | 0.10 |
| 12 X 24 | 30 X 61 | 253 | 1632 | 1.5 | 0.10 |
| 18 X 18 | 46 X 46 | 289 | 1865 | 1.0 | 0.07 |
| 18 X 24 | 46 X 61 | 391 | 2523 | 1.0 | 0.07 |
| 18 X 30 | 46 X 76 | 493 | 3181 | 1.0 | 0.07 |
| 18 X 35 | 46 X 89 | 578 | 3729 | 1.0 | 0.07 |
| 24 X 24 | 61 X 61 | 529 | 3413 | 1.0 | 0.07 |
| 24 X 30 | 61 X 76 | 667 | 4303 | 1.0 | 0.07 |
| 24 X 36 | 61 X 91 | 805 | 5194 | 0.5 | 0.03 |
| 24 X 44 | 61 X 112 | 989 | 6381 | 0.5 | 0.03 |
| 30 X 30 | 76 X 76 | 841 | 5426 | 0.5 | 0.03 |
| 30 X 36 | 76 X 91 | 1015 | 6548 | 0.5 | 0.03 |
| 30 X 40 | 76 X 102 | 1131 | 7297 | 0.5 | 0.03 |
| 30 X 44 | 76 X 112 | 1247 | 8045 | 0.5 | 0.03 |
| 36 X 36 | 91 X 91 | 1225 | 7903 | 0.5 | 0.03 |
| 36 X 44 | 91 X 112 | 1505 | 9710 | 0.5 | 0.03 |
| 44 X 44 | 112 X 112 | 1849 | 11929 | 0.5 | 0.03 |
| 44 X 69 | 112 X 175 | 2924 | 18864 | 0.5 | 0.03 |

Round

| Nominal Size (diameter) | | Relief Area* | | Minimum Burst Pressure | |
|-------------------------|-----|--------------|---------|------------------------|------|
| Inches | cm | sq. in. | sq. cm. | psig | bar |
| 8 | 20 | 38 | 248 | 3.0 | 0.21 |
| 10 | 25 | 64 | 410 | 2.5 | 0.17 |
| 12 | 30 | 95 | 613 | 2.0 | 0.14 |
| 14 | 36 | 133 | 856 | 1.5 | 0.10 |
| 16 | 41 | 177 | 1140 | 1.3 | 0.09 |
| 18 | 46 | 227 | 1464 | 1.0 | 0.07 |
| 20 | 51 | 284 | 1829 | 1.0 | 0.07 |
| 24 | 61 | 415 | 2680 | 1.0 | 0.07 |
| 30 | 76 | 661 | 4261 | 0.5 | 0.03 |
| 32 | 81 | 755 | 4869 | 0.5 | 0.03 |
| 36 | 91 | 962 | 6207 | 0.5 | 0.03 |
| 40 | 102 | 1195 | 7707 | 0.5 | 0.03 |
| 42 | 107 | 1320 | 8518 | 0.5 | 0.03 |
| 44 | 112 | 1452 | 9369 | 0.5 | 0.03 |

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.



ZOOK Enterprises, LLC
16809 Park Circle Drive
Chagrin Falls, OH 44022 U.S.A.
Toll Free **800.543.1043**
Phone **440.543.1010**
Fax **440.543.4930**
E-mail **sales@zook.cc**

ZOOK Canada, Inc.
4400 South Service Road
Burlington, ON Can. L7L 5R8
Toll Free **800.370.6057**
Phone **905.681.2885**
Fax **905.681.8838**
E-mail **sales.canada@zook.cc**

ZOOK Europe, LTD.
Navigation House, Bridge Street
Killamarsh, Sheffield UK. S21 1AL
Phone **0044 (0) 1909 560999**
Fax **0044 (0) 1909 560860**
E-mail **zookeurope@zook.cc**

visit us on the web at www.zook.cc