



CV-F Series Explosion Vent Panels

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 Indications
- 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}	= to P _{stat}
Maximum Temperature	500°F (260°C)	500°F (260°C)	500°F (260°C)
Burst Pressure Tolerance (Tolerance is based on relieving pressure of vent)	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 made from low end of burst pressure tolerance

CV-F	Design offers 100% venting efficiency
CV-FS	Designed with integral support to withstand vacuum or back-pressure up to the static burst pressure of the vent
CV-FSB	Designed to be used with support bars in the inlet frame, used when vacuum or backpressure exceeds the static burst pressure

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 total mass of the closure divided by the area of the vent opening shall not exceed 2.5 lbs/sq. ft."

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. Actual relief area will be reduced on other vent types or if support bars are used in inlet frame. Contact ZOOK for more information.



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