

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 psig (0.035 barg) to 8.00 psig (0.552 barg). Contact ZOOK for greater pressures
- Operating ratios up to 60% of the low end of burst pressure tolerance
- 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 (Gas Service Only)
- Gaskets
- Strap Support
- Frame with Support Bars

Operating Specifications	CVF	CVFS	CVFSB
Max Operating Pressure ¹	60%	60%	60%
Max Vacuum Rating	50% of Pstat	= to Pstat	> Pstat
Maximum Temperature	500°F (260°C)	500°F (260°C)	500°F (260°C)

	Relieving Pressure	Tolerance
Burst Pressure Tolerance	0.50 psig (0.035 barg) to 0.99 psig (0.070 barg)	+/- 0.33 psig (0.023 barg)
	1.00 psig (0.070 barg) to 3.99 psig (0.276 barg)	+/- 0.50 psig (0.035 barg)
	4.00 psig (0.276 barg) to 8.00 psig (0.552 barg)	+/- 1.00 psig (0.070 barg)

Notes:

¹Calculation based on low end of burst pressure tolerance

CVF	Design offers 100% venting area
CVFS	Designed with integral support to withstand vacuum or back-pressure up to the static burst pressure of the vent panel
CVFSB	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

Notes:

For larger sizes or sizes not shown, contact ZOOK.

* Relief area is based on relieving area of CVF 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.



CVF_052021

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Safety through knowledge and performance.

Features

- Superior fatigue and cycle life when compared to flat single hinge designs
- Designed to be non-fragmenting
- Interchangeable with existing vent installations
- Materials: SST/TFE/SST
- Square, Rectangular, and Round configurations
- Burst ratings from 0.50 psig (0.035 barg) to 8.00 psig (0.552 barg). Contact ZOOK for greater pressures
- Operating ratios up to 60% of the low end of burst pressure tolerance
- 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

- Insulation (Gas Service Only)
- Gaskets
- Strap Support
- Frame with Support Bars



Operating Specifications	CVIIF	CVIIFS	CVIIFSB
Max Operating Pressure ¹	60%	60%	60%
Max Vacuum Rating	50% of Pstat	= to Pstat	> Pstat
Maximum Temperature	500°F (260°C)	500°F (260°C)	500°F (260°C)

	Relieving Pressure	Tolerance
Burst Pressure Tolerance	0.50 psig (0.035 barg) to 0.99 psig (0.070 barg)	+/- 0.33 psig (0.023 barg)
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	4.00 psig (0.276 barg) to 8.00 psig (0.552 barg)	+/- 1.00 psig (0.070 barg)

Notes:

¹Calculation based on low end of burst pressure tolerance

CVIIF	Design offers 100% venting area
CVIIFS	Designed with integral support to withstand vacuum or back-pressure up to the static burst pressure of the vent panel
CVIIFSB	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
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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
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44	112	1452	9369	0.5	0.03

Notes:

For larger sizes or sizes not shown, contact ZOOK.

* Relief area is based on relieving area of CVIIF 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.



CVIIF_052021

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Safety through knowledge and performance.

Features

- Domed composite design with segmented bursting pattern
- Superior fatigue and cycle life when compared to domed single hinge designs
- Designed to be non-fragmenting
- Interchangeable with existing vent installations
- Materials: SST/TFE/SST
- Square, Rectangular, and Round configurations
- Burst ratings from 0.50 psig (0.035 barg) to 8.00 psig (0.552 barg). Contact ZOOK for greater pressures
- Operating ratios up to 80% of the low end of burst pressure tolerance
- 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

- Insulation (Gas Service Only)
- Gaskets



Operating Specifications	CVIIPS	CVIIPVS
Max Operating Pressure ¹	80%	80%
Max Vacuum Rating	50% of Pstat	See Note ²
Maximum Temperature	500°F (260°C)	500°F (260°C)

	Relieving Pressure	Tolerance
Burst Pressure Tolerance	0.50 psig (0.035 barg) to 0.99 psig (0.070 barg)	+/- 0.33 psig (0.023 barg)
	1.00 psig (0.070 barg) to 3.99 psig (0.276 barg)	+/- 0.50 psig (0.035 barg)
	4.00 psig (0.276 barg) to 8.00 psig (0.552 barg)	+/- 1.00 psig (0.070 barg)

Notes:

¹Calculation based on low end of burst pressure tolerance

² Round: Full vacuum for sizes up to 24". 50% Vacuum for 30" and above Rectangular / Square: Contact ZOOK

CVIIPS	Designed with integral light duty handling support to withstand back-pressure or vacuum up to 50% of the static burst pressure of the vent panel
CVIIPVS	Designed with integral support to withstand vacuum or back-pressure up to 14.7 psi (full vacuum)

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
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Inches	cm	sq. in.	sq. cm.	psig	bar
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Notes:

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CVIIP_062021

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Features

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- Better fatigue and cycle life when compared to flat single hinge designs
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Operating Specifications	CVPS	CVPVS
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