CVP Series
Explosion Vent Panels

Features

- Domed composite design with single hinge bursting pattern
- Better fatigue and cycle life when compared to flat single hinge designs
- Interchangeable with existing vent installations
- Materials: SST/PFA/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

- Integral Burst Indication
- Insulation (Gas Service Only)
- Gaskets

Operating Specifications	CVPS	CVPVS
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	0.5 psig (0.035 barg) to < 1 psig (< 0.070 barg)	+/- 0.33 psig (0.023 barg)
	1 psig (0.070 barg) to < 4 psig (< 0.276 barg)	+/- 0.50 psig (0.035 barg)
	4 psig (0.276 barg) to 8 psig (0.552 barg)	+/- 1.00 psig (0.070 barg)

Notes:
[1]Calculation 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

CVPS	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
CVPVS	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
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

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 CVP 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.

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SERVING AMERICA, CENTRAL & SOUTH AMERICA
16809 Park Circle Drive
Chagrin Falls, Ohio 44022
United States
Toll Free: +1 800 543 1043
Phone: +1 440 543 1010
E-mail: sales@zookdisk.com

SERVING EUROPE, MIDDLE EAST & AFRICA
Navigation House, Bridge St.
Killamarsh, Sheffield, S21 1AL
United Kingdom
Phone: +44 (0) 1909 560999
E-mail: sales.europe@zookdisk.com

SERVING CANADA
4400 South Service Road
Burlington, Ontario, L7L 5R8
Canada
Toll Free: +1 800 370 6057
Phone: +1 905 681 2885
E-mail: sales.canada@zookdisk.com

SERVING ASIA PACIFIC
Menara LGB TTDI
Unit 6-3A, Level 6, Menara LGB,
No. 1, Jalan Wan Kadir,
Taman Tun Dr. Ismail,
60000 Kuala Lumpur, Malaysia
Phone: +603 2706 0098
E-mail: sales.asia@zookdisk.com