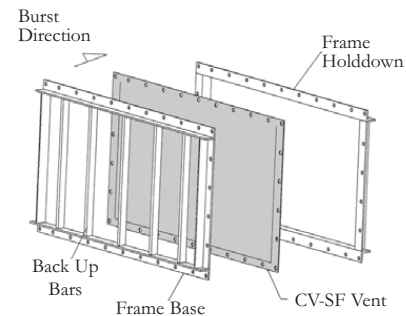


## CV-SF EXPLOSION VENT

### DESCRIPTION

Fike Corporation designs simple, reliable explosion protection solutions to meet your safety requirements. The CV-SF vent is constructed with a support frame with back-up bars in the vent frame assembly to provide extra support for higher vacuum conditions while maintaining a flat profile. The Fike CV-SF vent is a composite membrane, high performance explosion vent that provides a superior service life for static to light pressure cycling conditions. Typical applications include separation, drying, storage, conveyance, and processing operations.



### FIKE SERVICES

Fike expertise creates the right explosion protection solution for your specific application:

- Engineers and application specialists familiar with your application and applicable codes
- **Rapid Response** - lower costs and lead times with Fike's exclusive stock program shipping the most popular sizes and burst pressures in 2 days
- Product testing and hazard analysis
- Vent relief area sizing software online at [www.Fike.com](http://www.Fike.com) (NFPA/European standards)

### STANDARD FEATURES

Instantaneous Full Opening

Fail-Safe Design

Dynamically Tested - Fike exclusive!

100% Venting Efficiency

High Mechanical Integrity

Easy Installation by Plant Personnel

Non-Fragmenting Design

Maintenance Free

### BENEFITS

Reduced risk for accidental contamination, elimination of undetected openings

Certified burst pressure provides full, predictable opening at or below its rated burst pressure even if the vent is damaged

Tested under full-scale explosion conditions, not just computer modeling

Optimal relief area

Longer service life

Reduced downtime and maintenance costs

Reduced risk to personnel and equipment

Reduced cost of ownership

### SPECIFICATIONS

Compliance:

Materials of Construction:

Maximum Operating Pressure:

Vacuum Rating:

Standard Burst Pressure Tolerance:

Operating Temperature Range:

Optional Equipment:

NFPA 68

316 SST / Teflon® / 316 SST

75% of the minimum stamped burst pressure for BP ≤ 1.5 psig

60% of the minimum stamped burst pressure for BP > 1.5 psig

Full vacuum with back-up bars

± 0.25 psig for burst pressures < 1.0 psig

± 0.5 psig for burst pressures 1.0 - 4.0 psig

± 1.0 psig for burst pressures > 4.0 psig

-40°C up to 260°C / -40°F up to 500°F

Burst Indicators / Monitoring System

Atmospheric Insulation

Process Insulation

Weather Covers

Alternative materials, temperature ranges, and tighter tolerances are available

Form No. X.1.15.01-2

Vent Size		Relief Area		Minimum Burst Pressure		Maximum Burst Pressure	
in	cm	ft <sup>2</sup>	m <sup>2</sup>	psig	mbarg	psig	mbarg
9 x 12	23 x 30	.410	.038	2.0	138	10.0	690
12 x 12	30 x 30	.592	.055	2.0	138	8.0	550
12 x 18	30 x 46	.965	.090	1.5	103	8.0	550
<b>*12 x 24</b>	<b>30 x 61</b>	<b>1.337</b>	<b>.124</b>	<b>1.5</b>	<b>103</b>	<b>8.0</b>	<b>550</b>
18 x 18	46 x 46	1.559	.145	1.0	69	8.0	550
18 x 24	46 x 61	2.160	.201	1.0	69	8.0	550
18 x 30	46 x 76	2.762	.257	1.0	69	8.0	550
24 x 24	61 x 61	2.983	.277	1.0	69	8.0	550
20 x 30	51 x 76	3.112	.289	1.0	69	8.0	550
<b>*18 x 35</b>	<b>46 x 89</b>	<b>3.309</b>	<b>.307</b>	<b>1.0</b>	<b>69</b>	<b>8.0</b>	<b>550</b>
18 x 36	46 x 91	3.418	.318	1.0	69	8.0	550
24 x 30	61 x 76	3.814	.354	1.0	69	8.0	550
<b>*24 x 36</b>	<b>61 x 91</b>	<b>4.720</b>	<b>.439</b>	<b>.5</b>	<b>35</b>	<b>8.0</b>	<b>550</b>
30 x 30	76 x 76	4.866	.452	.5	35	8.0	550
24 x 44	61 x 112	5.853	.544	.5	35	8.0	550
30 x 36	76 x 91	6.022	.559	.5	35	8.0	550
24 x 48	61 x 122	6.457	.600	.5	35	8.0	550
36 x 36	91 x 91	7.324	.680	.5	35	8.0	550
30 x 44	76 x 112	7.468	.694	.5	35	8.0	550
<b>*36 x 44</b>	<b>91 x 112</b>	<b>9.082</b>	<b>.844</b>	<b>.5</b>	<b>35</b>	<b>8.0</b>	<b>550</b>
44 x 44	112 x 112	11.090	1.030	.5	35	8.0	550
44 x 69	142 x 175	18.048	1.677	.5	35	8.0	550

\* These sizes are stocked at the factory at the minimum burst pressure, 72°F only

Notes:

- Custom sizes are available
- All dimensions are nominal

## INSTALLATION

CV-SF rectangular vents can be mounted in several lightweight angle frame configurations. Fike offers frames of multiple configurations and materials. If you prefer to make your own frames, drawings can be purchased for a nominal fee.

