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CV-SF
EXPLOSION VENT

CV-SF EXPLOSION VENT

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.



Explosion vent - CV-SF

FEATURES AND BENEFITS

- Instantaneous Full Opening - reduced risk for accidental contamination, elimination of undetected openings.
- Fail-Safe Design - certified burst pressure provides full, predictable opening at or below its rated burst pressure even if the vent is damaged.
- Dynamically Tested - Fike exclusive - tested under full-scale explosion conditions not just computer modeling.
- High Mechanical Integrity - longer service life.
- Easy Installation by Plant Personnel - reduced downtime and maintenance costs.
- Non-Fragmenting Design - reduced risk to personnel and equipment.
- Maintenance Free - reduced cost of ownership.

SPECIFICATIONS

Compliance:	NFPA 68
Materials of Construction:	316 SST / FEP or PFA / 316 SST
Maximum Operating Pressure:	75% of the minimum stamped burst pressure for BP ≤ 1.5 psig 60% of the minimum stamped burst pressure for BP > 1.5 psig
Vacuum Rating:	Full vacuum with back-up bars
Standard Burst Pressure Tolerance:	± 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
Operating Temperature Range:	-40 to 204°C / -40 to 400°F (FEP) -40 to 260°C / -40 to 500°F (PFA)
Optional Equipment:	Burst Indicators / Monitoring System; Atmospheric Insulation; Process Insulation; Flameless Venting; Weather Covers; Alternative materials, temperature ranges, and tighter tolerances are available

SPECIFICATIONS

Vent Size		Relief Area		Minimum Burst Pressure		Maximum Burst Pressure	
IN	cm	ft2	m2	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
*12 x 24	30 x 61	1.337	.124	1.5	103	8.0	550
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
*18 x 35	46 x 89	3.309	.307	1.0	69	8.0	550
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
*24 x 36	61 x 91	4.720	.439	.5	35	8.0	550
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
*36 x 44	91 x 112	9.082	.844	.5	35	8.0	550
44 x 44	112 x 112	11.090	1.030	.5	35	8.0	550
44 x 69	112 x 175	18.048	1.677	.5	35	8.0	550

* Standard sizes are available with a 1.5 psig nominal burst pressure at 72°F.

- 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.





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