

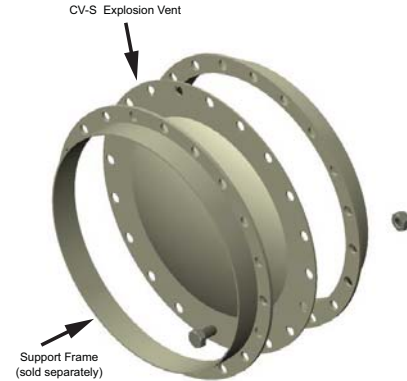
## CV-S EXPLOSION VENTS

### DESCRIPTION

Fike Corporation designs simple, reliable explosion protection solutions to meet your safety requirements. The Fike CV-S is a high performance explosion vent and provides superior service life for severe process pressure cycling and pulsating conditions. CV-S vents operate up to full vacuum levels, depending on vent size.

Typical applications include separation, drying, storage, conveyance, and processing operations.

Fike also offers an exclusive stock vent program with lower costs and shipping within 2 days on the popular sizes and burst pressures.



### STANDARD 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
100% Venting Efficiency	Optimal relief area
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:	Atex Certified / NFPA 68
Materials of Construction:	316 SST / FEP or PFA / 316 SST
Maximum Operating Pressure:	90% of the minimum stamped burst pressure for BP ≤ 1.5 psig 80% of the minimum stamped burst pressure for BP > 1.5 psig
Vacuum Rating:	Full vacuum (-14.7 psig) for sizes up to 30"; -7.35 psig for sizes > 30"
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°C up to 260°C / -40°F up to 500°F
Optional Equipment:	Burst Indicators/Monitoring System; Atmospheric Insulation; Process Insulation; Weather Covers; Flameless Venting; Alternative materials, temperature ranges, and tighter tolerances are available

Form No. X.1.18.01-3

Vent Size		Relief Area		Minimum Burst Pressure		Maximum Burst Pressure	
in	cm	ft <sup>2</sup>	m <sup>2</sup>	psig	mbarg	psig	mbarg
6 Dia	15 Dia	.13	.012	6.0	414	15.0	1030
8 Dia	20 Dia	.26	.024	4.5	310	15.0	1030
10 Dia.	25 Dia.,	.43	.040	3.6	248	11.0	760
12 Dia.	30 Dia.	.65	.060	3.0	207	10.0	690
14 Dia.	36 Dia.	.91	.085	2.6	179	10.0	690
16 Dia.	41 Dia.	1.23	.11	2.2	152	10.0	690
18 Dia.	46 Dia.	1.58	.15	2.0	138	10.0	690
20 Dia.	51 Dia.	1.97	.18	1.8	124	10.0	690
22 Dia.	56 Dia.	2.41	.23	1.5	103	10.0	690
<b>*24 Dia.</b>	<b>61 Dia.</b>	<b>2.89</b>	<b>.27</b>	<b>1.5</b>	<b>103</b>	<b>10.0</b>	<b>690</b>
26 Dia.	66 Dia.	3.41	.32	1.5	103	10.0	690
<b>*30 Dia.</b>	<b>76 Dia.</b>	<b>4.59</b>	<b>.43</b>	<b>1.5</b>	<b>103</b>	<b>10.0</b>	<b>690</b>
32 Dia.	81 Dia.	5.24	.49	1.5	103	10.0	690
<b>*36 Dia.</b>	<b>91 Dia.</b>	<b>6.68</b>	<b>.62</b>	<b>1.0</b>	<b>69</b>	<b>10.0</b>	<b>690</b>
40 Dia.	102 Dia.	8.30	.77	1.0	69	10.0	690
44 Dia.	112 Dia.	10.08	.94	1.0	69	10.0	690

- \* These sizes are stocked at the factory for 1.5 psig nominal burst pressure 72°F only
- Custom sizes are available
- All dimensions are nominal

## INSTALLATION

CV-S circular vents can be mounted in several lightweight angle frame configurations. CV circular explosion vents can also be installed between standard weld neck flanges in accordance with DIN 3632 PN10 or ANSI B16.5 150. Fike offers frames of multiple configurations and materials. If you prefer to make your own frames, drawings can be purchased for a nominal fee.

## HOW TO ORDER

Previous Lot Number:	
OR	
Size:	
Burst Pressure:	@ (Temperature)
Top Material:	
Seal Material:	
Support Material:	
Frame Drawing or Bolt Pattern:	

