

TYPE CV, CV-CF, CV-S – RECTANGULAR SHAPE

DESCRIPTION

Fike explosion vents are high performance protection devices especially designed to provide dynamic non-fragmenting opening when protecting industrial processing equipment.

Fike explosion vents are available in following distinctive types, each offering ideal solutions for specific applications or industries.

- **CV:** for use in most industrial applications where the operating pressures (both positive and negative) are near to atmospheric
- **CV-CF:** for use in applications where the explosion vent is exposed to severe pulsatic duty such as they exist with for example reverse jet cleaning systems on dust collectors, etc.
- **CV-S:** designed for use in applications where the operating pressure approaches the burst pressure range, or where high vacuum pressure may exist.

FEATURES AND BENEFITS

- Certified venting efficiency
- Non-fragmenting opening
- Maintenance free
- Fully compliant with ATEX / EN14797 / NFPA68 / EAC



APPROVALS:

- ATEX
- EN14797
- NFPA68
- EAC



SPECIFICATIONS

Type	CV	CV-CF	CV-S
Shapes ¹	Rectangular		
Sizes ²	355 x 200 mm to 1110 x 1110 mm	400 x 500 mm to 1110 x 1110 mm	400 x 500 mm to 1110 x 1110 mm
Materials of Construction ³	1.4301 / FEP / 1.4301	1.4301 / FEP / PU-Foam / 1.4301	1.4301 / FEP / 1.4301
Maximum Operating Pressure	70% of min BP for nom. BP ≤ 0.1 barg 65% of min. BP for nom. BP > 0.1 barg	85% of min. BP	85% of min. BP
Maximum Vacuum Rating	70% of min. BP for nom. BP ≤ 0.1 barg 65% of min. BP for nom. BP > 0.1 barg	85% of min. BP	Partial vacuum: see table
Burst Pressure Tolerance ⁴	± 15 mbarg for burst pressure ≤ 70 mbarg ± 25 mbarg for burst pressure > 70 mbarg and ≤ 250 mbarg ± 50 mbarg for burst pressure > 250 mbarg		
Operating Temperature Range ⁵	-40°C up to 260°C	-40°C up to 120°C	-40°C up to 260°C

(1) For circular shape: see Fike HI-Type explosion vents.

(2) Other sizes are available on request.

(3) Other materials (1.4404 / FEP / 1.4404; 1.4404 / PFA / 1.4404; 1.4301 / PFA / 1.4301) are available on request.

(4) For certain sizes and burst pressures, reduced tolerances may be available, consult factory.

(5) For operating temperatures exceeding 204°C, advise when ordering.

OPTIONS

1. Burst indicators
2. Atmospheric insulation



RECTANGULAR SHAPED CV

EXPLOSION VENT							ANGLE FRAME	
Relief Area (m ²)	Nominal Size a x b (mm)	Min. BP (mbarg)	Max. BP (mbarg)	Bolts			Size	Angle profile (mm)
				Qty	d2	size	A x B (mm)	
0.071	355x200	140	500	16	12	M10	455x300	40x40x4
0.200	500x400	100	500	22	12	M10	600x500	40x40x4
0.216	625x345	140	500	16	12	M10	735x445	40x40x4
0.250	500x500	70	500	24	12	M10	600x600	40x40x4
0.268	470x570	90	460	26	12	M10	570x670	40x40x4
0.300	500x600	70	440	26	12	M10	600x700	40x40x4
0.350	500x700	50	380	28	12	M10	600x800	40x40x4
0.400	500x800	50	320	30	12	M10	600x900	40x40x4
0.450	500x900	50	260	32	12	M10	600x1000	40x40x4
0.600	600x1000	35	200	36	12	M10	700x1100	40x40x4
0.700	700x1000	35	200	38	12	M10	800x1100	40x40x4
0.800	800x1000	35	200	40	12	M10	900x1100	40x40x4
0.900	900x1000	35	200	42	12	M10	1000x1100	40x40x4
Stocked sizes ¹								
0.391	625x625	70	425	20	12	M10	735x735	45x45x5
0.500	500x1000	50	200	34	12	M10	600x1100	40x40x4
0.509	566x900	50	260	34	12	M10	666x1000	40x40x4
0.694	625x1110	35	150	26	12	M10	735x1220	45x45x5
0.810	900x900	35	160	40	12	M10	1000x1000	40x40x4
1.000	1000x1000	35	200	44	12	M10	1100x1100	40x40x4
1.232	1110x1110	35	150	32	12	M10	1220x1220	45x45x5

(1) To accommodate cost and delivery demands of the market, a number of CV style explosion vent sizes have been selected which are produced for stock with a nominal burst pressure of 0.1 barg ± 15% at 22°C.



RECTANGULAR SHAPED CV-CF

EXPLOSION VENT			
Relief Area (m ²)	Nominal Size (mm)	Minimum Burst Pressure (mbarg)	Maximum Burst Pressure (mbarg)
0.200	500x400	120	500
0.250	500x500	120	500
0.268	470x570	100	500
0.300	500x600	120	440
0.350	500x700	110	380
0.391	625x625	100	380
0.400	500x800	100	320
0.450	500x900	100	260
0.500	500x1000	50	200
0.509	566x900	50	200
0.600	600x1000	50	200
0.694	625x1110	100	200
0.700	700x1000	50	200
0.800	800x1000	50	200
0.810	900x900	100	200
0.900	900x1000	50	200
1.000	1000x1000	50	200
1.232	1110x1110	100	200



RECTANGULAR SHAPED CV-S

EXPLOSION VENT				
Relief Area (m ²)	Nominal Size (mm)	Minimum Burst Pressure (mbarg)	Maximum Burst Pressure (mbarg)	Vacuum Rating (mbarg) ¹
0.182	500x400	120	500	625
0.230	500x500	120	500	500
0.278	500x600	120	440	420
0.326	500x700	110	380	360
0.366	625x625	100	425	300
0.374	500x800	100	320	320
0.422	500x900	100	260	280
0.568	600x1000	50	200	200
0.653	625x1110	50	200	180
0.666	700x1000	50	200	180
0.764	800x1000	50	200	160
0.862	900x1000	50	200	140
0.960	1000x1000	50	200	125
1.188	1110x1110	100	N/A	100
Stocked sizes ²				
0.248	470x570	100	460	500
0.470	500x1000	50	200	250
0.480	566x900	50	260	200
0.480	566x900	50	260	700
0.774	900x900	50	200	140
0.960	1000x1000	50	200	125

(1) Higher vacuum ratings available on request, contact factory for details.

(2) To accommodate cost and delivery demands of the market, a number of CV-S style explosion vent sizes have been selected which are produced for stock with a nominal burst pressure of 0.1 barg \pm 15% at 22°C.