

TYPE HI-CV, HI-CV-CF, HI-CV-S *

Description

Fike's HI (High Integrity) explosion vents are high performance explosion vents especially designed to provide dynamic non-fragmenting opening when protection industrial processing equipment.

Features / Advantages

- Highest Venting Efficiency
- Non-Fragmenting Opening
- Flange Alignment Independent
- Maintenance Free
- Fully Compliant with Atex (IBEXU 04 ATEX 2253X)
- Interchangeable with Existing Circular Explosion Vents



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

- **HI-CV:** for use in most industrial applications where the operating pressures (both positive and negative) are near to atmospheric.
- **HI-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.
- **HI-CV-S:** designed for use in applications where the operating pressure approaches the burst pressure range, or where high vacuum pressure may exist.

	HI-CV		HI-CV-CF		HI-CV-S	
Shapes ⁽¹⁾	Circular					
Sizes ⁽¹⁾	6"/DN150 to 48"/DN1200					
Materials of Construction ⁽²⁾	SST / Teflon / SST					
	BP ≤ 0.1 barg	BP > 0.1 barg	BP ≤ 0.1 barg	BP > 0.1 barg	BP ≤ 0.1 barg	BP > 0.1 barg
Max. Operating Pressure	70%	60%	80%	70%	90%	80%
Max. Vacuum Pressure	70%	60%	80%	70%	See Table	
Burst Pressure Tolerance ⁽³⁾	BP ≤ 70 mbar: +/- 15 mbar 70 mbar and ≤ 250 mbar: +/- 25 mbar BP > 250 mbar: +/- 50 mbar					
Operating Temperature ⁽⁴⁾	-40°C to 260°C (120°C for CV-CF)					

NOTES

1. Other sizes are available on request.
2. Other materials are available on request.
3. For certain sizes and burst pressures, reduced tolerances may be available, consult factory.
4. For operating temperatures exceeding 204°C, advise when ordering.

* Patent Pending

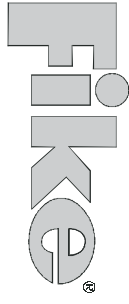
CIRCULAR SHAPE: STANDARD WELDING NECK FLANGES DIN 2632/EN 1092-1 PN10 & 150 ANSI B16.5

DIN/EN	Relief area		ANSI 150	Relief Area		Explosion Vent				Vacuum Rating mbar* g	
	HI-CV & HI-CV-CF	HI-CV/S		HI-CV & HI-CV-CF	HI-CV/S	Minimum Burst Pressure mbar g		Maximum Burst Pressure mbar g			
150	6	0.015	6	0.014	0.011	210	415	415	1000	1030	Full
200	8	0.026	8	0.025	0.021	200	300	300	1000	1030	Full
250	10	0.044	10	0.042	0.036	140	250	250	649	700	Full
300	12	0.064	12	0.061	0.055	110	200	200	554	700	Full
350	14	0.078	14	0.071	0.069	100	180	180	499	700	Full
400**	16	0.105	16	0.102	0.094	85	150	150	434	700	Full
500**	20	0.171	20	0.160	0.156	85	125	125	344	700	Full
600**	24	0.252	24	0.247	0.235	40	100	100	284	700	Full
700	28	0.347	28	0.331	0.381	35	100	100	244	700	Full
800**	32	0.459	32	0.456	0.438	35	100	100	214	700	Full
900	36	0.581	36	0.483	0.563	35	70	70	189	700	Full
1000	40	0.725	40	0.703	0.704	35	70	70	169	700	500
1100	44	-	44	0.804	0.781	35	70	70	159	700	400
1200	48	1.057	48	0.886	0.861	35	70	70	154	700	290

CIRCULAR SHAPE: LIGHTWEIGHT ANGULAR FRAMES (LAF)

Vent Size mm	"	Relief Area		Minimum Burst Pressure mbar g		Maximum Burst Pressure mbar g		Vacuum Rating mbar* g
		HI-CV & HI-CV-CF	HI-CV/S	HI-CV	HI-CV-CF, HI-CV/S	HI-CV	HI-CV-CF, HI-CV/S	
150	6	0.013	0.012	210	415	1000	1030	Full
200	8	0.023	0.023	200	300	1000	1030	Full
250	10	0.039	0.039	140	250	649	700	Full
300	12	0.057	0.057	110	200	554	700	Full
350	14	0.071	0.071	100	180	499	700	Full
400**	16	0.097	0.097	85	150	434	700	Full
450	18	0.124	0.124	70	150	389	700	Full
500**	20	0.160	0.160	50	120	344	700	Full
550	22	0.213	0.213	40	120	299	700	Full
600**	24	0.239	0.239	40	100	284	700	Full
700	28	0.333	0.333	35	90	244	700	Full
750	30	0.381	0.381	35	90	229	700	Full
800**	32	0.444	0.444	35	80	210	700	Full
850	34	0.531	0.531	35	70	199	700	Full
900	36	0.569	0.569	35	70	184	700	Full
1000	40	0.712	0.712	35	70	169	700	500
1050	42	0.781	0.781	35	70	164	700	400
1100	44	0.862	0.862	35	70	159	700	290

** To accommodate cost and delivery demands of the market, a number of explosion vent sizes have been selected which are produced for stock with a nominal burst pressure of 0.1 barg +/-15% at 22°C. * Higher vacuum ratings available on request, contact factory for details.



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All above data are subject to change without notice.

They must not be used unless confirmed in writing.

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