

EXPLOSION VENTING SOLUTIONS

INNOVATIVE, PROVEN,

COST-EFFECTIVE

TECHNOLOGY



Fike[®]

Fike Expertise

Fike is the leader in delivering patented, innovative technologies to the explosion protection market. With over 65 years of field experience, Fike understands the complexities of plant processes, relevant code compliance and the critical nature of continued plant operation.

Proven to be one of the most effective forms of passive explosion protection, explosion venting provides overpressure protection from potential deflagration hazards by providing a planned pathway for the expanding gases to escape. Fike is a leader in the development of effective, cost efficient, ATEX certified explosion venting solutions. Economically priced and offering a long service life, Fike's wide range of explosion venting solutions are ideal for many applications.

Fike Explosion Vents

- Require little to no maintenance
- Proven to perform as designed and all models' performance is validated using large scale explosion tests
- Engineered to provide optimal performance characteristics:
 - Low mass
 - Cyclic pressure capability
 - Vacuum resistance
 - High venting efficiency
 - Certified burst pressures (P_{STAT})
- Full opening, non-fragmenting vent design, eliminating restraints
- No moving parts for greater reliability
- Low product cost, simple installation, and long service life
- Weather covers, burst indicators, insulation and vacuum bar options available

The Fike logo is displayed in a large, bold, white font. The letter 'i' in 'Fike' has a registered trademark symbol (®) to its upper right. The logo is positioned in the bottom left corner of the page, partially overlapping a red industrial explosion vent unit.

Fike Explosion Protection Vents Product Overview

COMPOSITE EXPLOSION VENTS		Burst Pressure Range	Operating Ratio	Non-Fragmenting	Vacuum Rating	Pulsating/Cyclic	Explosion Vent Stocking Program
	CV Simple, reliable Long lasting in static to light pressure cycling conditions Round and square/rectangular configurations	0.5 - 10.0 PSIG 35 - 690 MBARG	60 - 75%	Yes*	Partial	Good	Yes
	CV-S High performance vent Superior service life for pressure cycling/pulsating conditions Round and square/rectangular configurations	1.0 - 15.0 PSIG 69 - 1030 MBARG	80 - 90%	Yes*	Full	Best	Yes
	CV-SF Withstands full vacuum conditions with use of backup bars Long lasting in static to light pressure cycling conditions Round and square/rectangular configurations	0.5 - 10.0 PSIG 35 - 690 MBARG	60 - 75%	Yes	Full	Good	Yes
	CV-CF Extended service life under heavy pulsating and cycling conditions For use in higher vibration applications Round and square/rectangular configurations	0.75 - 10.0 PSIG 52 - 690 MBARG	60 - 75%	Yes*	Partial	Best	
	CV-I Insulation extends service life in high temperature applications Round and square/rectangular configurations	0.5 - 15.0 PSIG 35 - 1030 MBARG	60 - 75%	Yes	Partial	Good	
	CV-SI Insulation extends service life in high temperature applications Superior service life for pressure cycling/pulsating conditions Round and square/rectangular configurations	0.7 - 15.0 PSIG 50 - 1030 MBARG	80%	Yes	Full	Better	
SANITARY EXPLOSION VENTS							
	SANI-VS Stable performance over a wide range of temperatures Integrated frame design for easy installation CIP/SIP; FDA compliant materials	0.3 -10.2 PSIG 21 - 703 MBARG	80%	Yes	Partial	Best	
	SANI-VSA 3-A and EHEDG Certified; Designed for clean production environments Integrated frame design for easy installation Sanitary gasket; FDA compliant materials	0.3 -10.2 PSIG 21 - 703 MBARG	80%	Yes	Partial	Best	
	SANI-V® Versatile, economical Integrated frame design for easy installation CIP / SIP; FDA compliant materials	0.5 - 6.5 PSIG 35 - 448 MBARG	50%	Yes	Partial	Good	
	SANI-VA 3-A and EHEDG Certified Integrated frame design for easy installation Sanitary gasket; FDA compliant materials	0.5 - 6.5 PSIG 35 - 448 MBARG	50%	Yes	Partial	Good	
	CV-H Liner on process side supports hygienic applications Simple, reliable; Long lasting in static to light pressure cycling conditions Round and square/rectangular configurations	0.5 -15.0 PSIG 35 -1030 MBARG	60 - 75%	Yes		Good	
HIGH PERFORMANCE / SPECIAL APPLICATION EXPLOSION VENTS							
	VMAX™ Stable performance over a wide range of temperatures	0.5 - 5.0 PSIG 35 - 345 MBARG	80%	Yes	Partial	Best	Yes
	ELEGUARD® Designed specifically to protect bucket elevators Integrated frame designed for easy installation	0.7 - 2.9 PSIG 50 - 200 MBARG	25%	Yes		Good	
	FLEX-V® Recloses, recovering 90% of vent relief area for more efficient use of firefighting agents; Reduces the risk of secondary explosions Protection against vessel collapse due to vacuum pressure	1.23 - 1.81 PSIG 85 - 125 MBARG	50%	Yes	Full	Good	

*Larger diameters may require the optional High Integrity model to prevent fragmentation. Please consult factory.

Vent Stocking Program

Fike’s Stock Explosion Venting Program gives you the added advantages of quick turn-around and reduced costs. When you select one of the listed stock vents, you realize shipment within 48 hours*, at a price less than a custom manufactured vent.

**Stock program varies by market*

Select from the following venting solutions, each available in multiple sizes.

- CV -** Provides excellent service life for static to light pressure cycling conditions and light vacuum conditions.
- CV-S -** Optimal for full vacuum process conditions with some pulsating/cycling. (currently available on round version only)
- CV-SF -** Supports full vacuum conditions with use of back-up bars in the frame assembly.
- VMAX -** Multi-domed, high performance explosion vent provides excellent service life in challenging process conditions, stable performance over a wide range of temperatures and is vacuum rated.

TIME IS MONEY, AND YOU SAVE BOTH WITH FIKE’S GLOBAL STOCK EXPLOSION VENT PROGRAM

Vent Accessories

- High quality installation **FRAMES** are available in a variety of materials and designs.
- Easy plant-wide monitoring with **BURST INDICATORS**.
- An optional **ATMOSPHERIC INSULATION** pack is available to help avoid energy loss or condensation effects, and to reduce acoustic emission levels of protected systems.
- **PROTECTION WEATHER COVERS** are lightweight, corrosion resistant environmental protection. Weather covers minimize the effect of dirt, wind, snow, etc., while safeguarding the operation of the explosion vent.



Flameless Explosion Venting

During normal venting, an explosion is freely discharged, allowing flames and dust to exit the process vessel being protected. When the process vessel is located indoors, ducts are generally used to safely convey the explosion outside the building. However, ductwork has disadvantages and may result in decreased venting efficiency. Flameless venting, in combination with Fike explosion vents, can extinguish the flame from the vented explosion without the use of expensive ducting, limitations to equipment location, or more costly explosion protection.



- Eliminates need for expensive ducts
- Enhanced venting efficiency over venting with ductwork
- Virtually maintenance free

Highly suited for indoor applications, flameless venting is designed to protect people and equipment from flames and dust, releasing post-combustion gases only.



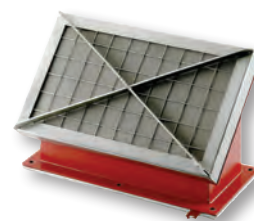
FlamQuench II™

- For use with round vents
- Field refurbish kits available
- FM/CE Approvals



FlamQuench SQ

- For use with rectangular vents
- Field refurbish kits available
- CE Approvals



EleQuench®

- For use with EleGuard explosion vents
- CE Approvals

Testing Services

Every application, process and facility is unique and requires a complete assessment to determine what needs to be protected and the most effective means for accomplishing the safety goals. Fike offers a wide range of both standard and non-standard explosibility tests designed to assist companies in identifying and mitigating costly explosion hazards — all completed at Fike's own state-of-the-art testing laboratories.

Contact Fike for a hazard evaluation.

Fike offers full-scale hazard explosion testing

- Define the characteristics of an explosion hazard in your plant
- Identify vulnerable process areas
- Design prevention and protection safety measures



CONTACT FIKE

Fike is a global team of experienced professionals dedicated to life and business safety. We work closely with our clients to solve highly complex problems with easy-to-use products and services.



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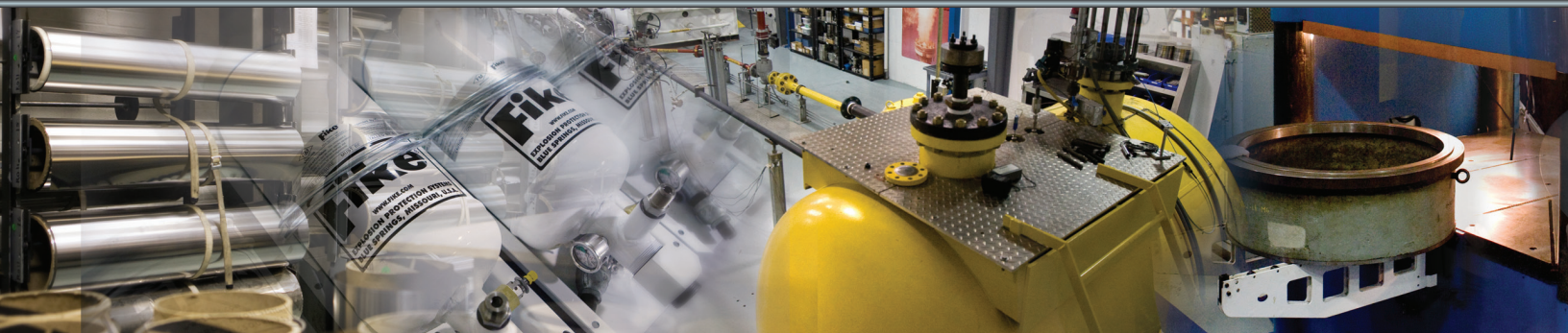
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U.S. Patents including 4,662,126; 4,821,909; 6,070,365; 6,959,828; 7,017,767; 7,234,278; 5,105,370; 5,105,371; 5,107,446; 5,138,562; 5,199,500; 5,647,438; 5,718,294; 5,816,330; 6,031,462; 6,131,594; 6,540,029
Additional foreign patents and U.S. patents pending.

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