

**EXPLOSION VENTING
SOLUTIONS**

INNOVATIVE, PROVEN,

COST-EFFECTIVE

TECHNOLOGY



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 with a registered trademark symbol. It is positioned in the bottom left corner of the page, overlaid on a photograph of an industrial explosion venting system. The venting system consists of a large, cylindrical, orange-colored metal structure with a grid-like mesh on its side, mounted on a complex industrial frame. The background of the entire page is a faded, light-colored image of an industrial facility with various pipes, walkways, and structural elements.

Fike Explosion Protection Vents Product Overview

COMPOSITE EXPLOSION VENTS	Burst Pressure Range	Operating Ratio	Non-Fragmenting	Vacuum Rating	Pulsating/Cyclic	Explosion Vent Stocking Program
 <p>CV Simple, reliable Long lasting in static to light pressure cycling conditions Round and square/rectangular configurations</p>	0.5 - 10.0 PSIG 35 - 690 MBARG	60 - 75%	Yes*	Partial	Good	Yes
 <p>CV-S High performance vent Superior service life for pressure cycling/pulsating conditions Round and square/rectangular configurations</p>	1.0 - 15.0 PSIG 69 - 1030 MBARG	80 - 90%	Yes*	Full/Partial	Best	Yes
 <p>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</p>	0.5 - 10.0 PSIG 35 - 690 MBARG	60 - 75%	Yes	Full	Good	Yes
 <p>CV-CF Extended service life under heavy pulsating and cycling conditions For use in higher vibration applications Round and square/rectangular configurations</p>	0.75 - 10.0 PSIG 52 - 690 MBARG	60 - 75%	Yes*	Partial	Best	
 <p>CV-I Insulation extends service life in high temperature applications Round and square/rectangular configurations</p>	0.5 - 15.0 PSIG 35 - 1030 MBARG	60 - 75%	Yes	Partial	Good	
 <p>CV-SI Insulation extends service life in high temperature applications Superior service life for pressure cycling/pulsating conditions Round and square/rectangular configurations</p>	0.7 - 15.0 PSIG 50 - 1030 MBARG	80%	Yes	Full	Better	
SANITARY EXPLOSION VENTS						
 <p>SANI-VS Stable performance over a wide range of temperatures Integrated frame design for easy installation CIP/SIP; FDA compliant materials</p>	0.3 - 10.2 PSIG 21 - 703 MBARG	80%	Yes	Partial	Best	
 <p>SANI-VSA 3-A and EHEDG Certified; Designed for clean production environments Integrated frame design for easy installation Sanitary gasket; FDA compliant materials</p>	0.3 - 10.2 PSIG 21 - 703 MBARG	80%	Yes	Partial	Best	
 <p>SANI-V® Versatile, economical Integrated frame design for easy installation CIP / SIP; FDA compliant materials</p>	0.5 - 6.5 PSIG 35 - 448 MBARG	50%	Yes	Partial	Good	
 <p>SANI-VA 3-A and EHEDG Certified Integrated frame design for easy installation Sanitary gasket; FDA compliant materials</p>	0.5 - 6.5 PSIG 35 - 448 MBARG	50%	Yes	Partial	Good	
 <p>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</p>	0.5 - 15.0 PSIG 35 - 1030 MBARG	60 - 75%	Yes		Good	
HIGH PERFORMANCE / SPECIAL APPLICATION EXPLOSION VENTS						
 <p>VMAX™ Stable performance over a wide range of temperatures</p>	0.5 - 5.0 PSIG 35 - 345 MBARG	80%	Yes	Partial	Best	Yes
 <p>ELEGUARD® Designed specifically to protect bucket elevators Integrated frame designed for easy installation</p>	0.7 - 2.9 PSIG 50 - 200 MBARG	25%	Yes		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.

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

- CV -** Ideal for static to light pressure cycling and light vacuum conditions.
- CV-S -** Optimal for full or moderate vacuum process conditions with some pulsating/cycling.
- 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

**Stock program varies by market*

Vent Accessories

- High quality installation **FRAMES** are available in a variety of materials and designs.
- Easy plant-wide monitoring with **BURST INDICATORS**.
- **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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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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