

THE PACESETTER IN
EXPLOSION SAFETY
INNOVATION

EXPLOSION PROTECTION

SOLUTIONS YOU CAN

COUNT ON WORLDWIDE.



Fike[®]

In today's competitive business world, making sure your production process continues to work smoothly is crucial to your company's bottom line. That's why you can rely on Fike. We know safety is no accident. Our simple, reliable explosion protection solutions fit your growing safety needs. With our field experience and a team of in-house engineers, application specialists, and combustion researchers, we understand your plant's processes, relevant code compliance, and how critical continued plant operation is to you. We stand behind our products with a commitment to quality, full-scale explosion testing capabilities and explosion expertise.



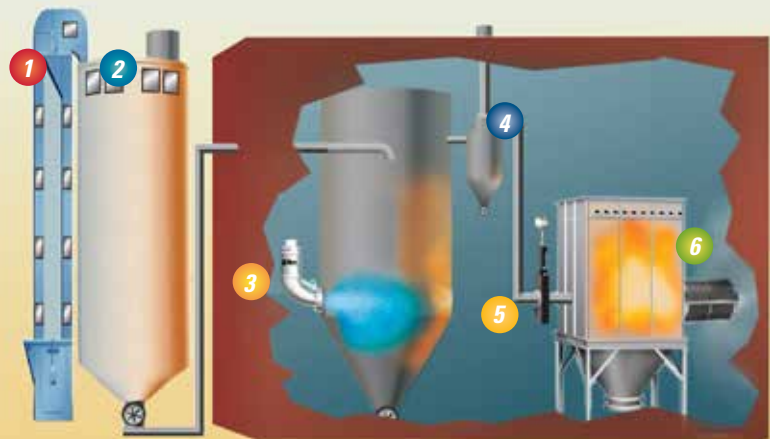
Explosion protection is the best solution to avoiding costly disasters.

Fike complies with or is approved by global third party approval agencies, including:

- ISO 9001 and EN29001
- ATEX Directive 94/9/EC
- NFPA 68 and 69
- Factory Mutual
- Canadian Standards Association
- CE
- PED and SIL (Safety Integrity Level)

This combined with full-scale explosion testing capabilities for all products and patented technology lends strength and confidence to Fike's explosion protection solutions.

FIKE EXPLOSION PROTECTION SOLUTIONS AT WORK



Fike is a uniquely qualified provider for total explosion protection solutions -

- 1** *A bucket elevator is protected by Fike's Eleguard vent panels.*
- 2** *Fike vent panels protect a grain silo.*
- 3** *Fike system disperses suppressant to extinguish a dryer explosion.*
- 4** *A cyclone is protected by a ducted explosion vent and accompanying weather cover.*
- 5** *Fike's high speed explosion isolation valves and/or chemical barrier system prevent explosion propagation through fuel laden pipes.*
- 6** *FlamQuench II protects dust collector located inside the building, without expensive ductwork.*

AUTO COATINGS
VENTILATION



CHEMICALS &
PLASTICS



FOOD



PAINTS &
PIGMENTS



PHARMACEUTICAL



POWER



WASTE



WOOD &
PAPER



OTHER





Fike's Remote Large Scale Testing Facility is used for research, data collection, validation and testing of safety protection equipment.



Fike customizes testing equipment, complex set-ups and data evaluation for specific client requirements.



The hazard in your process plant can be duplicated, controlled, studied and monitored to determine the best choice for safety.



10m³ sphere for large-scale combustion research



Large scale testing of a Fike mechanical explosion isolation valve



1m³ laboratory research testing vessel



Chemical isolation testing at remote site

Fike's comprehensive state-of-the-art explosion testing laboratories verify the right protection strategies for your plant. Our testing defines your products' hazard characteristics, which helps you manage your process and select the right safety equipment. The lab complies with recognized international standards for hazard testing including ASTM and EN.

From a simple explosibility screening test to custom large-scale projects, our capabilities include explosibility parameters, flammability limits, auto-ignition temperature, minimum ignition energy, and more. All of Fike's explosion protection products have been tested under full-scale explosion conditions. We have tremendous depth of experience in a broad range of applications and installations, and are active members of technical standards committees such as CEN, NFPA, VDI, and ASTM.

Get unparalleled explosion protection control, monitoring, and reporting with Fike's EPACO Explosion Protection Control System. With Fike, you choose the level of protection, information, and plant integration. The EPACO system can be customized to accommodate your plant's process conditions. Combined with Fike's pressure and optical detectors, the EPACO system offers enhanced system stability and scalable design, which minimizes shutdowns, reduces costs, and delivers unparalleled explosion protection.

FM, ATEX, CSA, and CE approved.

Fike's exclusive EPWorks™ software reports system status, pressure readings, and pre/post system activation history in easily understandable graphs, giving you more information at your fingertips. Fike's exclusive bus technology communicates system status, activates system protection, and allows for remote access.

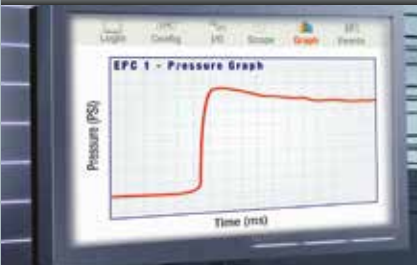
Refine and further integrate the explosion protection system for your process with optional expansion modules:

- Annunciator Module: Command/communication central, located in office or a safe, convenient place.
- Relay Card: Relays for process equipment interface allowing the system to discriminate between critical and non-critical trouble conditions.
- Power Supply: uninterruptible power supply.

Fike's innovative system gives you total control of your business and confidence in your protection.



*Fike detection and control for total process supervision.
1. Fike EPWorks™ provides in-depth analysis. 2. Fast, reliable EPACO™ detectors.
3. Mix and match EPACO™ modules to suit application.*



Fike EPWorks™ software provides in-depth analysis



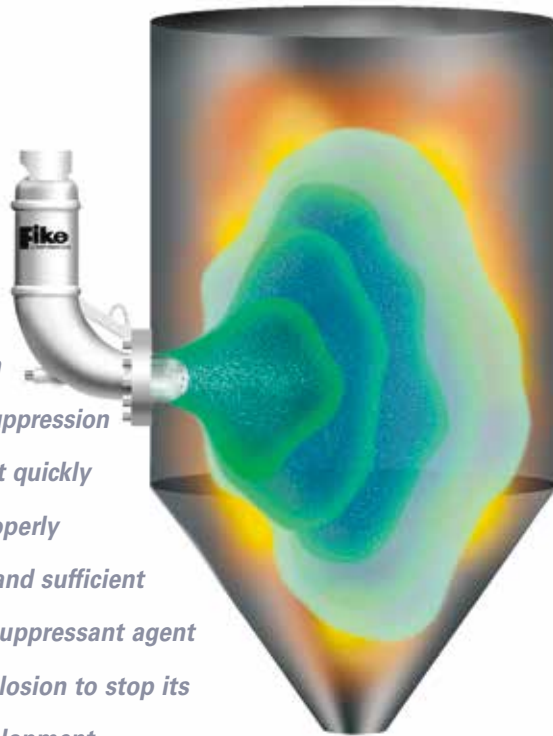
Fast, reliable EPACO detectors

Mix and match EPACO modules to suit application



EXPLOSION SUPPRESSION

An optimum explosion suppression system must quickly deliver a properly distributed and sufficient amount of suppressant agent into the explosion to stop its further development.



Fike is the leader in suppressing all classes of dust, gas, and hybrid explosion hazards. Fike's innovative Gas Cartridge Actuators release suppressant agents without an explosive charge and have a 10-year shelf life. Patented container and nozzle designs eliminate flow restrictions, extinguishing the explosion faster, minimizing pressure build-up inside process equipment. The simple design of the suppression container has no moving parts or wear points, for unparalleled reliability in explosion protection. Options are available for a variety of agents and special sanitary applications.

FM and ATEX approved



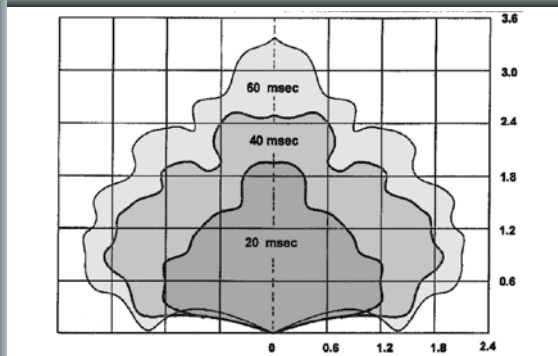
HRD suppression containers provide fast reaction time



Simple container design for greater reliability and leak free operation



Chemical Isolation



Suppression System Discharge Cloud Profile (distance in m)

SYSTEM DESIGN

Fike Engineers are qualified professionals who are trained to relate explosion and process characteristics to the suppression systems performance. Fike has developed a proprietary software tool **EPDesigner™** which enables complex problems to be solved and computes the optimum suppression system design.

WORLDWIDE ACCESS

WHEN YOU NEED IT

Prevent the spread of an explosion

The Fike ValvEx® Passive Explosion Isolation Valve prevents explosion propagation against the normal process flow. The ValvEx® is a truly passive explosion isolation device which provides protection at the lowest cost of ownership.



Mechanical Isolation Valve



Flow-Actuated Explosion Isolation Float Valve

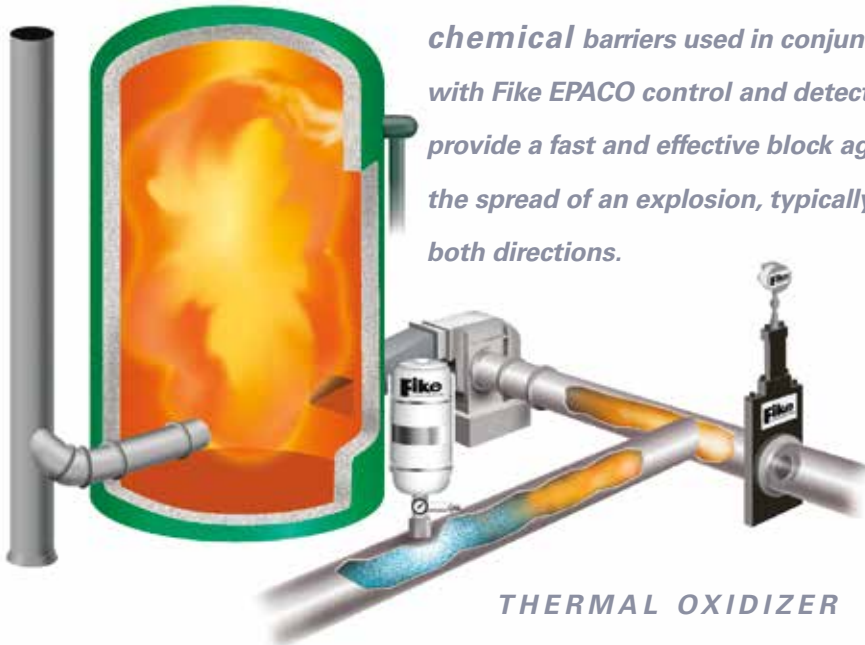


I-Flex™ Valve

ValvEx® Passive Explosion Isolation Valve

The Fike I-Flex™ is a semi-active Explosion Isolation Valve which requires a minimum control and detection measures to provide a mechanical block against pressure, flame or sparks. This valve is field resettable and successfully combines the protection function with the use as a process valve.

The Fike active mechanical or chemical barriers used in conjunction with Fike EPACO control and detection provide a fast and effective block against the spread of an explosion, typically in both directions.



THERMAL OXIDIZER



Explosion Diverter

PASSIVE EXPLOSION PROTECTION

Fike's innovative approach to venting and flameless venting solutions provides protection you can rely on.

Through full-scale explosion testing and research, Fike has developed vents with optimal relief areas, the broadest range of sizes, and certified burst pressures. Innovative features like integrated frames, specialty materials, protective covers, and other options are available. We provide facility-wide monitoring to instantly alert your staff and relays to adjust your processes.



FlamQuench II flameless venting protects indoor dust collector.

Fike's exclusive vent stocking program provides quick delivery on a wide selection of premium quality explosion vents at significantly reduced costs.



For indoor venting, or where flameless venting is required, Fike offers several models to suit your application.



Normal Venting



Flameless Venting with FlamQuench II™



High Integrity (HI) Vent



Fike HI Vents are non-fragmenting

When you combine our wealth of experience with our reputation for breakthrough solutions in explosion protection, Fike adds up to the right choice every time.

CONTACT FIKE

Fike Corporation 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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