

**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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**Flex-V<sup>®</sup>**  
Fire Limiting Explosion Vent

A MORE COMPLETE  
SOLUTION FOR EXPLOSION  
AND FIRE PROTECTION



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# Flex-V<sup>®</sup> Fire Limiting Explosion Vent



Explosion and fire damage can be costly—creating substantial losses in manufacturing downtime and causing extensive damage to valuable production equipment. Fike is uniquely qualified to engineer and supply complete protection against damage resulting from explosions and subsequent fires.

Unlike traditional venting, the Flex-V panel returns to its original position at the end of the venting process, restoring about 90% of the vent relief area. For many applications, this first-of-its-kind engineering breakthrough offers significant benefits over traditional explosion vents:

- Venting process is shortened, reducing the risk of secondary explosions
- Space is re-confined, allowing more efficient use of fire-fighting agents
- Can open inward, offering protection against vessel collapse due to vacuum pressure

## WITH FIKE'S FLEX-V SOLUTIONS, WE CAN HELP YOU DETERMINE THE RIGHT AMOUNT OF EXPLOSION AND FIRE PROTECTION FOR YOUR APPLICATIONS.



Vent re-closing sequence

### LEVEL I PROTECTION: Flex-V Reclosable Vents

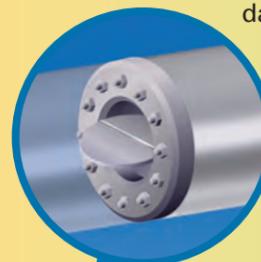
The exciting Flex-V by Fike is a high performance device designed to protect industrial process equipment against the damaging effects of dust and gas explosions. The Flex V opens to prevent explosion damage and re-closes to limit available oxygen that could fuel a resulting fire.

While traditional explosion vents are an effective, economical form of passive explosion protection, they do not prevent damage due to subsequent fires. The Flex-V design allows fire-fighting agents the opportunity to effectively control fire situations.



### LEVEL II PROTECTION: Flex-V plus Fire Dampers

Fire Dampers provide isolation on inlet and outlet ducts, effectively limiting oxygen sources and eventually starving the fire. When an explosion occurs, the Flex-V opens to relieve the pressure and can signal other safety devices, such as fire dampers, to operate. Added to the fire limiting design of the Flex-V explosion vent, fire dampers greatly increase the total fire protection of a protected vessel.



### LEVEL III PROTECTION: Flex-V, Fire Dampers plus Fike Fire Suppression

Even one lost day due to a vital resource or facility being down, can be financially devastating. When you cannot afford the damaging affects of explosions, fire and downtime, look for the Fike Flex-V total protection solution: isolation provided by the Flex-V vent and fire dampers (eliminating oxygen sources), combined with a Fike fire suppression system to immediately prevent fire/heat damage.



### FLEX-V FIRE SUPPRESSION OPTIONS

#### PROINERT<sup>®</sup>

The Proinert inert gas fire suppression system features a patented constant flow rate valve that translates into a system that is safer for your vessels and/or facility, **and** saves you money.

This unique valve assembly allows the **PROINERT**



gas to enter the protected area within 60 seconds, but at a steady flow rate – preventing destructive turbulence. This constant flow rate means you can use small-diameter, low pressure (and less expensive!) piping throughout.

The environmentally safe **PROINERT** system is designed for superior long-distance delivery. The storage containers and selector valves enable you to protect several areas with one bank of containers, and they can be placed far from the protected areas, for added convenience.

#### CO<sub>2</sub>

The operation of the Flex-V panel can also be used to trigger a Fike Carbon Dioxide fire protection system, using intelligent, reliable and fast-acting control panels to sense a fire. **CO<sub>2</sub>** reduces the oxygen level in the vessel to a point where fire cannot survive or cause damage.



For applications in which the materials involved are subject to smoldering fire conditions, Fike's **CO<sub>2</sub>** system provides a heavy blanket of agent which penetrates all parts of the vessel, quickly extinguishing these deep-seated fires. And unlike water, there is no clean-up necessary with a Fike **CO<sub>2</sub>** system discharge, for minimal interruption to your business!

**Nothing can be more devastating to a company than an explosion or the damage caused by a resulting fire. Fike understands the necessity of minimizing business interruption and saving costs. Depend on Fike for reliability, efficiency and safety in each of its explosion protection or fire protection solutions.**



Safety is no accident. With over six decades of field experience and a team of in-house fire and explosion protection engineers, application specialists, and combustion researchers, Fike understands industrial processes, relevant code compliance, and how critical continued plant operation is to you. With Fike's full range of explosion and fire protection solutions, your plant stays up and running.