

Flex-V[®]

Fire Limiting Explosion Vent



NOT YOUR ORDINARY EXPLOSION VENT

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. 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 unique, first-of-its-kind engineering breakthrough offers significant benefits over regular explosion vents:

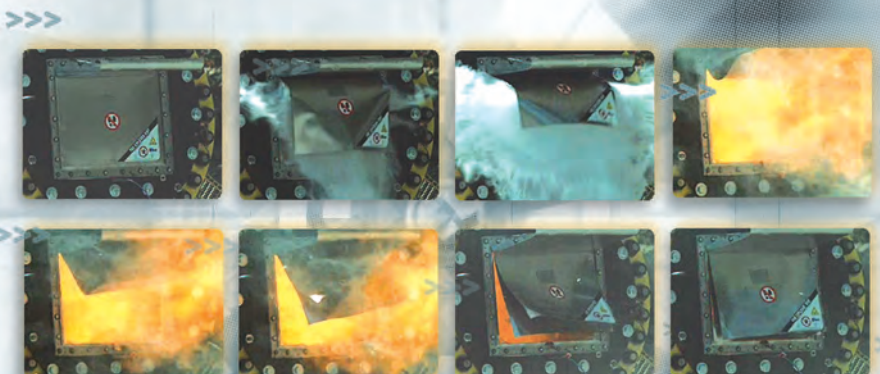
- ▶ Venting process is shortened, reducing the risk of secondary explosions.
- ▶ Space is re-confined, limiting available oxygen and allowing more efficient use of fire-fighting agents, such as inert gas and carbon dioxide systems.
- ▶ Can open inward, offering protection against vessel collapse due to vacuum pressure.

OTHER KEY FLEX-V FEATURES:

- ▶ Integrated frame for easy installation and maintenance
- ▶ Insulation reduces condensation and acoustic emission levels, and avoids energy loss
- ▶ Non-fragmenting opening offers additional safety
- ▶ Optional burst indicator available

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.

The Flex-V opens to prevent explosion damage and re-closes to limit available oxygen that could fuel a resulting fire.



Vent re-closing sequence



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SPECIFICATIONS

SHAPE	RECTANGLE
SIZE	17.44 x 22.83 in. (443 X 580mm)
MATERIALS OF CONSTRUCTION	304 SST (1.4301 /FEP/1.4301) Integrated gasket made of white silicone. Conforms to FDA standards.
MAXIMUM OPERATING PRESSURE	50% of minimum BP
BURST PRESSURE	Maximum BP 1.81 PSIG (125mbar) Nominal BP 1.45 PSIG (100mbar) Minimum BP 1.23 PSIG (85mbar)
OPERATING TEMPERATURE	72°F (22°C) Ambient temp
THERMAL INSULATION	Cellular Rubber .98 in. (25 mm) on atmospheric side
APPLICATION RANGE	Dust Class ST 1 $K_{st} \leq 200$ Vessel volume ≥ 70.63 ft (2m ³)

EXPLOSION VENTING

Explosion venting provides protection from potential industrial explosion hazards by providing a planned pathway for the expanding gases to escape.



Flameless Venting



Sanitary Venting

Fike, a pioneer in the development of explosion venting, continues to lead the way by producing an unsurpassed range

of ATEX certified explosion venting solutions for all areas of industrial activity. Virtually maintenance free and offering a long service life, Fike explosion vents are an ideal solution for many applications.



Non-fragmenting Vent

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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.

Fike[®]

WWW.FIKE.COM

Tel: +1-866-758-6004
E-mail: fpssales@fike.com

