

PROTECTION COVER TYPE EX-COVER RECTANGULAR

DESCRIPTION

Explosion venting is often selected to protect industrial equipment against the devastating effects of an explosion. In those applications where explosion vents are installed in a position where elements like dirt, snow, wind or ice may influence the predictable use and lifetime of explosion venting, an adequately designed explosion vent protection cover is recommended.

The Fike Ex-Cover offers a lightweight, corrosion resistant environmental protection for Fike Explosion vents, reducing the effects of dirt, wind, snow, etc. to an absolute minimum, whilst the safe functioning of the upstream explosion vent is safeguarded. The Ex-Cover is designed to allow an unobstructed explosion pressure relief, and will assist in reducing the need for preventive maintenance and control. Installation on top of vent ducts, e.g. to prevent ingress into the vent duct, is not allowed.



APPROVALS:

- ATEX
- EAC



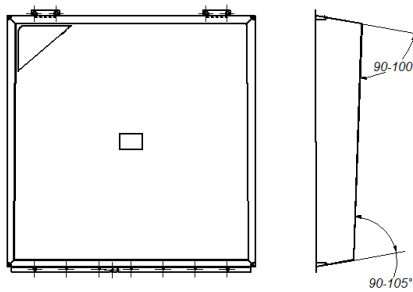
FEATURES AND BENEFITS

- Environmental protection of Fike Explosion vents
- Functioning of explosion vent is safeguarded
- Reduced need for preventive maintenance and control
- Lightweight, corrosion resistant environmental protection
- Can be equipped with a magnetic rupture indicator
- ATEX certified

SPECIFICATIONS

Type	Ex-Cover Rectangular
Vent Sizes⁽¹⁾	470 x 570mm (18" x 22") to 1110 x 1110mm (44" x 44")
Material of Construction	1.4301 (304 SST) & 1.4404 (316L)
Operating Temperature Range	-40°C up to 60°C
Application range	dp/dt _{max} = 250 bar.s P _{max} = 10 bar P _{red,max} = 1.15 bar
Venting efficiency⁽²⁾	75% - 100%
Nominal static burst pressure⁽³⁾	P _{stat} = 50mbarg +/- 25mbarg
Compatible Vent Type	CV, CV-S, CV-CF, CV-SF, CV-H, VV-S, SANI-V, SANI-V-S
Options	Rupture indicator (operating temp. -20°C to +60°C)

- (1) These are ATEX compliant sizes. Ex-Cover sizes outside the ATEX size range will not be CE and Ex marked and are only allowed in non-ATEX regions.
- (2) Vent area sizing with Ex Covers will use correction due to venting efficiency where needed. Always use VentCalc to size vent areas when Ex Covers are applied.
- dp/dt_{max} <= 70 bar/sec are 100% efficient and do not require correction.
 - dp/dt_{max} = 250 bar/sec are 75% efficient.
 - Efficiency between 70 and 250 bar/sec is solved for by linear interpolation.
- (3) Ex-Covers have a nominal static burst pressure (P_{stat}) of 50mbarg which must be lower than the nominal P_{stat} of the vent panel. For vent area calculation, use the highest P_{stat} and Tolerance of Panel and Cover.



AVAILABLE SIZES⁽¹⁾

Rectangular shaped explosion vents (metric)	Rectangular shaped explosion vents (imperial)
Nominal size	Nominal size
a x b (mm)	A x b (inch)
500 x 500 ⁽²⁾	24 x 24"
470 x 570 ^(St)	18 x 30"
500 x 600	18x24"
500 x 700	18 x 35"
625 x 625 ^(St)	24 x 36" ^(St)
500 x 800	24 x 44"
500 x 900	24 x 48" ⁽²⁾
500 x 1000 ^(St)	36 x 36" ^(St)
566 x 900 ^(St)	36 x 44" ^(St)
600 x 1000	38 x 46" ^{(St)(2)}
625 x 1110 ^(St)	44 x 44"
700 x 1000	
800 x 1000	
900 x 900 ^(St)	
900 x 1000	
1000 x 1000 ^(St)	
1110 x 1110 ^(St)	

(1) Other sizes available – consult Fike.

(2) Size is non ATEX.

(St) To accommodate delivery demands of the market, a number of Ex-Covers have been selected which are produced for stock. These are Ex-Covers without rupture indicator and they do not accommodate for a VV-S panel.