

ELEGUARD™ EXPLOSION VENTS

DESCRIPTION

Fike Corporation designs simple, reliable explosion protection solutions to meet your safety requirements. Fike's EleGuard is a single element, explosion venting device specifically designed for use in protecting bucket elevators from damaging explosions. This cost-effective explosion vent is also easy to install because of its integrated frame, requiring only six bolts.



In addition, the EleGuard can be installed with Fike's EleQuench™ flame filter to provide safe venting options for indoor applications.

STANDARD FEATURES AND BENEFITS

Integral Frame	Fast, easy, no-weld 6 bolt installation
Instantaneous Full Opening	Reduced risk for accidental contamination, elimination of undetected openings
Fail-Safe Design	Certified burst pressure provides full, predictable opening at or below its rated burst pressure even if the vent is damaged
Dynamically Tested - Fike exclusive!	Tested under full-scale explosion conditions not just computer modeling
Optimal Explosion Relief Characteristics	Low mass and full open design provide high efficiency and maximum pressure relief
High Mechanical Integrity	Longer service life
Easy Installation by Plant Personnel	Reduced downtime and maintenance costs
Non-Fragmenting Design	Reduced risk to personnel and equipment
Maintenance Free	Reduced cost of ownership

Note: EleGuard explosion vents used in combination with a EleQuench flameless vent should include a burst indicator to provide supervision and notification when the vent ruptures.

SPECIFICATIONS

Compliance:	ATEX Certified / NFPA 61
Materials of Construction:	304 SST / Silicone FDA Seal / Neoprene FDA Gasket
Maximum Operating Pressure:	25% of the minimum stamped burst pressure
Standard Burst Pressure Tolerance:	± 0.21 psig
Operating Temperature Range:	-4°F up to 140°F / -20°C up to 60°C
Optional Equipment:	Burst Indicators; Atmospheric Insulation; Flameless Venting

Form No. X.1.21.01-4

Relief Area		Nominal Size		Outside Dimensions	
ft ²	m ²	in	mm	in	mm
.85	.08	6.69 x 18.50	170 x 470	10.16 x 21.96	258 x 558
1.32	.12	10.63 x 18.03	270 x 458	14.09 x 21.50	358 x 546
1.60	.15	11.81 x 19.68	300 x 500	15.28 x 23.15	388 x 588
2.44	.22	13.78 x 25.59	350 x 650	17.24 x 29.06	438 x 738

Notes:

- All dimensions are nominal
- If vent must comply with NFPA 61, order the EleGuard panel with maximum burst pressure of 1 psi

INSTALLATION

The EleGuard can be installed directly onto the bucket elevator, using minimal bolting arrangements and without the use of additional installation frames. Due to the integral gasket on the process side, the EleGuard vent is factory supplied ready for installation.

MOUNTING KITS

Fike P/N	Description
34501100-S	EleGuard Weldless Mounting Kit, with special tooling kit * included
25130900	EleGuard Weldless Mounting Kit, without special tooling kit *

Note:

- * Only one special tooling kit is required when purchasing multiple EleGuard vents. For example, when ordering 3 EleGuard vents, only one (1) special tooling kit is required.



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