

ELEGUARD™

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.



FIKE SERVICES

Fike expertise creates the right explosion protection solution for your specific application:

- Engineers and application specialists familiar with your application and applicable codes
- Product testing and hazard analysis
- Vent relief area sizing software online at www.Fike.com (NFPA/European standards)

STANDARD FEATURES

- Integral Frame
- Instantaneous Full Opening
- Fail-Safe Design
- Dynamically Tested - Fike exclusive!
- 100% Venting Efficiency
- High Mechanical Integrity
- Easy Installation by Plant Personnel
- Non-Fragmenting Design
- Maintenance Free

BENEFITS

- Fast, easy, no-weld 6 bolt installation
- Reduced risk for accidental contamination, elimination of undetected openings
- Certified burst pressure provides full, predictable opening at or below its rated burst pressure even if the vent is damaged
- Tested under full-scale explosion conditions not just computer modeling
- Optimal relief area
- Longer service life
- Reduced downtime and maintenance costs
- Reduced risk to personnel and equipment
- Reduced cost of ownership

SPECIFICATIONS

- Compliance: Atex Certified / NFPA 68
- Materials of Construction: 316 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

Relief Area		Nominal Size		Outside Dimensions		Min. BP		Max. BP	
ft ²	m ²	in	mm	in	mm	psig	mbarg	psig	mbarg
.85	.08	6.69 x 18.50	170 x 470	10.16 x 10.94	258 x 558	.73	50	2.90	200
1.32	.12	10.63 x 18.03	270 x 458	14.09 x 21.50	358 x 546	.73	50	2.90	200
1.60	.15	11.81 x 19.68	300 x 500	15.28 x 23.15	388 x 588	.73	50	2.90	200
2.44	.22	13.78 x 25.59	350 x 650	17.24 x 29.06	438 x 738	.73	50	1.45	100

- All dimensions are nominal

INSTALLATION

The EleGuard can be installed directly onto the elevator leg, 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.

