

ELEQUENCH™ FLAMELESS VENTING

DESCRIPTION

Fike Corporation designs simple, reliable explosion protection solutions to meet your safety requirements. Approximately half of grain dust explosions originate from a bucket elevator. Fike developed the EleQuench explosion vent with easy installation features for use on elevator legs. For indoor elevators where vent ducting is not desirable, affordable, or possible, Fike offers a flameless venting companion to the EleGuard™ vent. The EleQuench flameless venting device prevents the release of flame and product, typically relieved during an explosion. The EleQuench filter and EleGuard vent bolt directly onto the elevator.



EleQuench Flameless Vent

APPLICATIONS

- Bucket elevators (Not engineered or tested for application on other vessel types)
- Agricultural Dusts $K_{st} \leq 150$
- For reduced explosion pressures up to 1 barg

Note:

When using an EleQuench in conjunction with an EleGuard vent on elevator legs, no correction to the vent sizing is required. Please consult factory to provide flameless venting solutions for the head section of the elevator.

STANDARD FEATURES AND BENEFITS

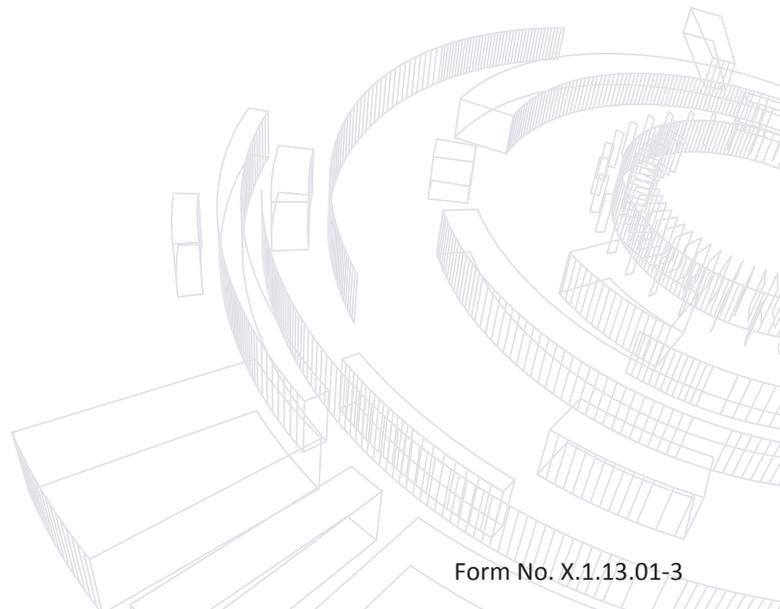
Flame Filter	Prevents dust and flames from emerging from vented areas - engineered for indoor venting applications
Integral Frame and Gasket	Fast, easy, no-weld 6 bolt installation
Fail-Safe Design	Certified burst pressure provides full, predictable opening at or below its rated burst pressure even if the vent is damaged
Dynamically Tested - Fike exclusive	Tested under full-scale explosion conditions
Optimal Explosion Relief Characteristics	When applied to the elevator legs, and used with the companion EleGuard vent, additional venting area is not required. Please consult factory for flameless venting solutions on the head section of the elevator.
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

APPROVALS:

- ATEX
- CE



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



SPECIFICATIONS

Compliance:	ATEX Certified / NFPA 61
Materials of Construction:	Top flamefilter: Stainless steel Body: Painted carbon steel
Companion Explosion Vents:	EleGuard vent must be ordered separately
Sizes (given in EleGuard dimensions):	170 x 470; 220 x 740; 270 x 458; 300 x 500; and 350 x 650mm
Operating Conditions:	Device is not exposed to process conditions
Environmental Conditions:	Ambient pressures and temperatures -40 to 60°C (-40 to 140°F). Keep device deposit free
Hazard:	Materials similar to agricultural dusts $K_{st} \leq 150$ barg m/s
Pressure Resistance:	$P_{red} \leq 1$ barg/14.5 psig

EleQuench ①	Dimensions	Weight	In Combination with EleGuard Vent Panel ②		Bolt Specs ③ (bolts, nuts, and washers not included)		
Fike P/N	L x W x H	Lb.	Fike Dwg No.	Nominal Size	Qty	Length	Size
34604900	579 x 306 x 361 mm 23 x 12 x 14.25 in	42	345048	170 x 470 x mm 6.7 x 18.5 in	6	50 mm 2 in	M10
34607900	846 x 356 x 443 mm 33 x 14 x 17 in	73	345078	220 x 740 mm 8.7 x 29 in	6	50 mm 2 in	M10
34600900	564 x 404 x 516 mm 22 x 16 x 20 in	60	345008	270 x 458 mm 10.6 x 18 in	6	50 mm 2 in	M10
34605900	606 x 434 x 567 mm 24 x 17 x 22 in	73	345058	300 x 500 mm 11.8 x 19.7 in	6	50 mm 2 in	M10
34603900	756 x 484 x 630 mm 30 x 19 x 25 in	101	345038	350 x 650 mm 13.8 x 25.6 in	6	50 mm 2 in	M10

