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ELEGUARD
EXPLOSION VENT

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Bucket elevators are widely used within bulk handling systems where the risk of dust explosions is always present. Fike has developed a series of explosion vents with easy installation features, designed for use on elevator-legs. The EleGuard-range of explosion vents offers an attractive commercial and technical solution to elevator protection. The EleGuard type explosion vent has been designed to comply with the requirements as specified by the ATEX 100a Directive, and is specifically developed to offer explosion venting on bucket elevator applications.



Explosion vent - ELEGUARD

FEATURES AND BENEFITS

- 100% venting efficiency.
- Certified burst pressure.
- No maintenance.
- High operating ratio.
- Fail Safe design.
- Non-fragmenting.
- Simple installation.
- Approval: ATEX, EAC

STANDARD DIMENSIONS

Nominal Size	Relief Area	Angled frame size	Bolts		
			Qty	Hole dia.	Size
mm	m ²	mm(AxB)			
110 x 330	0.036	198 x 418	6	14	M10
170 x 470	0.079	258 x 558	6	14	M10
170 x 560	0.094	258 x 648	6	14	M10
220 x 740	0.162	308 x 828	8	14	M10
270 x 458	0.123	358 x 546	6	14	M10
300 x 500	0.149	388 x 588	6	14	M10
350 x 650	0.227	438 x 738	6	14	M10

U.S. Patent 7,234,278 and Foreign Patents

SPECIFICATIONS

Type	EleGuard						
Nominal Size (mm)	110 x 330	170 x 470	170 x 560	220 x 740	270 x 458	300 x 500	350 x 650
Relief Area (m ²)	0.036	0.079	0.094	0.162	0.123	0.149	0.227
Materials of Construction	1.4301 (304 SST) with Silicone FDA seal and Neoprene FDA gasket						
Burst Pressure (mbarg)	100	50 – 100					
Burst Pressure Tolerance	± 15mbarg						
Max. Operating / Vacuum Pressure	Atmospheric (25% operating ratio)						
Operating Temperature Range	-20°C up to 60°C						
Approvals	IBExU03ATEX2058						

The EleGuard can be supplied with electrical break-wire type burst indicator.
For thermal / acoustic insulation an Ex-Cover is recommended. Consult Fike for details.