

SAFE PASSIVE FLAMELESS INDOOR EXPLOSION VENTING



Interceptor®
Flameless Vent

LT®

The Interceptor®-LT® is designed to be a passive, flameless solution for dust explosion venting.



The flame arresting design eliminates the possibility of a flame from affecting occupied areas and process equipment. The Interceptor®-LT® is comprised of two components, a rectangular explosion vent and a quencher (flameless venting material).

The quencher is a cartridge based design that is filled with layers of stainless steel mesh that is designed to absorb the flame during a combustion event. During a deflagration, the mesh acts as a heat sink to the quencher the temperature and break the chain reaction of the explosion. The mesh is breathable by gas which allows the explosion vent to relieve the pressure through the quencher material. This mesh also allows cool air to pass back through the mesh to achieve equilibrium in the protected vessel.

Flameless vents can be used in almost any process handling combustible dust.

The Interceptor®-LT® system can be used for pneumatic conveying systems, dust collection systems, cyclones, mills, dryers, conveyors, bucket elevators and storage vessels.

FEATURES

Access Door

An integrated access door allows for easy inspections of the explosion vent on the Interceptor®-LT®.

Signaling

Each Interceptor®-LT® includes an integrated burst indicator for monitoring the explosion vent. CV Technology also offers a variety of relay modules to integrate with the burst indicator for seamless interlocking of an activation signal.

Indoor Venting

The Interceptor®-LT® is a flameless venting solution that provides the benefits of a passive technology. Low maintenance requirements and no flame exhaust make it an ideal solution for explosion venting.

Field Serviceable

The Interceptor®-LT® is an economically feasible, low maintenance product. The mesh material is built into a cartridge assembly for easy handling and installation. The device can be serviced in the field by qualified plant personnel to limit plant downtime.

NFPA 68 Compliant

The Interceptor®-LT® is a NFPA 68 compliant solution. The flameless vent also has an ATEX approval for flameless venting in accordance with EN16009.

Dust Covers

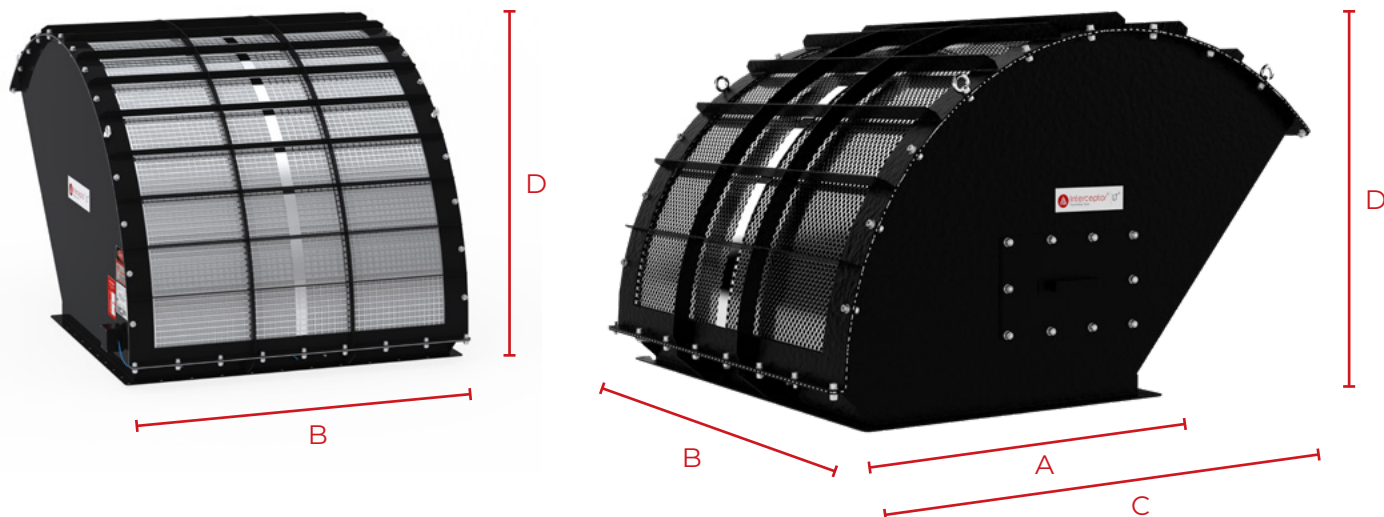
The Interceptor®-LT® has an optional dust cover for keeping the flameless vent clear of any dust deposits. The dust covers are water resistant so they can be used outdoors or in wet wash down areas.



OPTIONS AVAILABLE

- Dust Covers
- Alternative Burst Pressures
- Alternative Vacuum Ratings
- Signaling Relays
- Mating Flanges





WEIGHT & DIMENSION

Size	A Inch (mm)	B Inch (mm)	C Inch (mm)	D Inch (mm)	Weight Lbs (kg)
12"x24" (310x630)	15.4" (390)	28.0" (710)	24.9" (635)	16.1" (410)	88 lbs (40)
18"x32" (450x800)	21.3" (540)	35.0" (890)	35.4" (900)	22.8" (580)	163 lbs (74)
24"x36" (586x920)	26.2" (666)	39.4" (1000)	44.5" (1130)	28.9" (735)	240 lbs (109)
36"x44" (915x1118)	39.2" (996)	47.2" (1198)	65.4" (1660)	42.1" (1070)	474 lbs (215)

SPECIFICATIONS



Compliance and Certifications:	NFPA 68 ATEX, EN 16009 Certified
Materials of Construction:	Painted Carbon Steel and Stainless-Steel Mesh
Explosion Vents	TLFG: Triple Layer Composite consisting of 304 SS (1.4301) and PTFE
Burst Pressures:	Standard: 0.1 bar (1.5 PSI) Tolerance: (+/-15%) 0.085 to 0.115 bar (1.2 to 1.6 PSI) @ 22°C (72 °F) Optional: 0.2 bar (3.0 PSI) for 24" x 36" LT Generation III Tolerance: (+/-15%) 0.17 to 0.23 bar (2.5 to 3.3 PSI) @ 22°C (72 °F) Other CV Technology explosion vents may be used. Please contact the factory for alternatives.
Vacuum Resistance:	12" x 24" LT: - 0.80 bar (11 PSI) @ 22°C (72 °F) 18" x 32" LT: - 0.5 bar (7.25 PSI) @ 22°C (72 °F) 24" x 36" LT: - 0.40 bar (5.8 PSI) @ 22°C (72 °F) 36" x 44" LT: - 0.22 bar (3.2 PSI) @ 22°C (72 °F)
Gasket Material	Standard: Black EDPM Gasket Optional: White FDA Buna Nitrile
Signaling:	External Wire Sensor and Junction Box
Environmental Conditions:	Ambient Pressure and Temperatures Ranges: -4°F to 140°F (-20°C to 60°C)
Process Temperature:	Standard specs for TLFG Other CV Technology explosion vents may be used. Please contact the factory for alternatives.
Hazard:	Kst ≤ 220 bar-m/s Maximum Pred = 0.65 bar (9.42 PSI) Compliant with Organic, Melting, Fibrous, Dusts
Safe Distances:	12" x 24" LT: 3.3 ft (1.0 m) from personnel, 1.6 ft (0.5 m) from equipment 18" x 32" LT: 6.5 ft (2.0 m) from personnel, 1.6 ft (0.5 m) from equipment 24" x 36" LT: 6.5 ft (2.0 m) from personnel, 1.6 ft (0.5 m) from equipment 36" x 44" LT: 9.8 ft (3.0 m) from personnel, 3.3 ft (1.0 m) from equipment



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