

INTERCEPTOR[®] **IT**™





HOW THE INTERCEPTOR-LT WORKS

The Purpose:

The INTERCEPTOR®-LT™ is designed to be a passive, flameless solution for dust explosion relief venting. The flame arresting design eliminates the possibility of a flame from traveling into occupied areas and process equipment.

The Problem:

Explosion vents are the preferred passive method to relieve deflagrations that may occur in process equipment. When process equipment is located near occupied areas or other equipment, it can be difficult to provide a safe area to properly vent the potential dust deflagration hazard. Often this equipment has to be placed in high traffic areas, thus preventing the use of traditional explosion vents. The INTERCEPTOR®-LT provides a passive solution to these application difficulties.

Principle of Operation:

The INTERCEPTOR®-LT is comprised of two parts, a rectangular explosion vent and a quencher. The quencher consists of two cartridges, assembled with various layers of stainless steel mesh that absorbs the flame and hot gases during a combustion event. Ignition inside a protected vessel causes pressure to build rapidly. The explosion vent will open to relieve the pressure developed during this combustion event. Burning dust, unburned dust, flame, and hot gases all exit through the vent opening exactly in the same manner as would occur in a conventional explosion vent.

Unlike venting to atmosphere, however, the quencher takes over to absorb the heat from the flame and hot gases. The mesh then acts as a heat sink to quench the temperature and break the chain reaction, effectively interrupting the explosion in mid-stream. As the hot gases contract, the INTERCEPTOR®-LT acts as a vacuum breaker by allowing free entry of cool air to achieve equilibrium in the protected vessel.

Call for more info! 561 • 694 • 9588

Safe Passive Flameless Explosion Venting

Features and Benefits:

Flame Arresting.

No flame break through, providing a safe operating environment.

Simple Economic Installation.

Single flange connection allows for cost effective installation.

Economic Refurbishment if Exercised.

The **INTERCEPTOR®-LT** is field serviceable allowing qualified plant personnel to quickly refurbish and recertify the unit thereby limiting downtime.

Low Maintenance.

Low routine maintenance required.

Process Friendly.

If exercised, the **INTERCEPTOR®-LT** will not contaminate the customer process, eliminating extensive cleanup.

Specifications

*Standard Rupture Panel:

Model	586 x 920 TLFG
Material	Stainless Steel
Burst Pressure	0.1 bar (1.45 PSI)
Vacuum Rating	0.225 bar (3.25 PSI)
Maximum Operating Temperature	300 deg F (150 deg C)
Burst Indicator	Factory Installed
Gasket	1/8" White Food Grade Elastomer

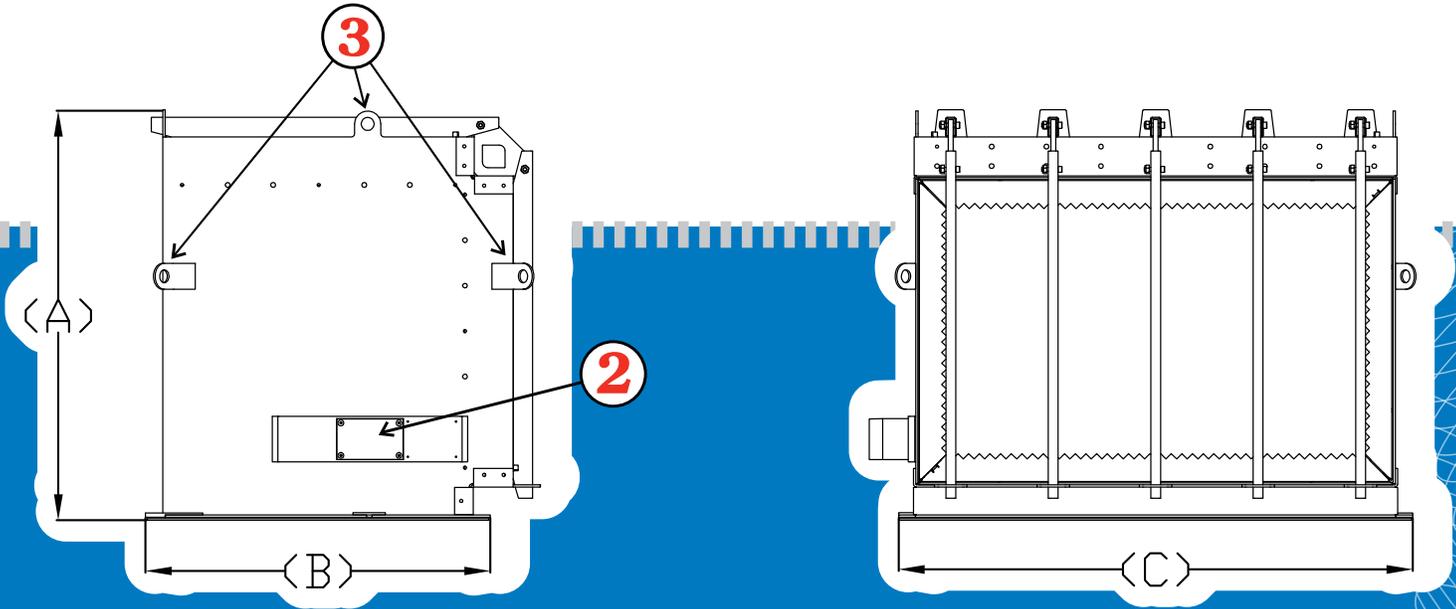
*Other rupture panels available if required.



INTERCEPTOR[®]-LT[™] Weights and Dimensions

Type	A	B	C	D	E	Wt. (lbs)
CV-LT-586x920	31.47	26.22	39.37	36.22	23.07	480

All Dimensions Are In Inches +/- 0.1". Weight is Lbs. +/- 3%.



- 1** Rupture panel with integrated signaling unit
- 2** INTERCEPTOR[®]-LT[™] electronics with operating and alarm signal
- 3** Lifting eyes 6 X 1.0" I.D.

