

IV8

FLAMELESS EXPLOSION RELIEF VENT

PRODUCT INFORMATION SHEET



CAPT-AIR®

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Description

The IV8 Flameless Explosion vent provides an explosion protection solution for process vessels which are located inside a building or areas where standard explosion venting cannot be safely employed. For these applications, flameless explosion vents may be the best protection solution. When an explosion occurs, the venting device opens and vents the explosion pressure and flame through a flame arrester, thereby cooling the hot gases and quenching the flame. The IV8 utilizes a stainless steel explosion relief vent and flame arresting mesh enclosed in a durable carbon steel coated frame. The integrated vent burst detection sensor allows plant personnel to respond accordingly in the event of an explosion within the protected application.

Features

- Provides explosion pressure relief without flame ejection
- Superior efficiency due to large mesh area.
- Single device can protect up to 12.3 m³, maximum protected volume 49.2 m³
- Unique vent folding mechanism provides high venting efficiency
- Certified to EN16009 using state-of-the-art measurement technologies.
- Integrated vent burst sensor
- Multiple inspection ports to allow easy inspection
- Designed for field reconditioning
- Optional weather cover

IV8 Flameless Vent



Application

Flameless explosion venting device designed specifically for use on process vessels which are located inside a building or areas where standard explosion venting cannot be safely employed.

Specifications

Nominal Vent Size mm (in)	586x920 (23x36)	457x890 (18x35)	350x890 (14x35)	305x610 (13x24)
HxWxL mm (in)	979x990x1023 (38x39x40)	824x806x993 (32x32x39)	686x648x993 (27x25x39)	659x608x712 (26x24x28)
P_{stat}	0.10 bar (1.45 psig) +/- 10%			
P_{red, max}	1.2 bar (17.4 psig)		1.5 bar (21.8 psig)	
K_{st}	≤200 bar m/s			
P_{max}	≤9.9 bar			
MIE	>3mJ			
Weight	150kg/331lb	110kg/243lb	90kg/198lb	67kg/148lb
Material: 1. Vent Panel 2. Flame Arrester 3. Gasket 4. Frame	1. Stainless Steel 2. Stainless Steel 3. EPDM or Silicone 4. Coated Carbon Steel			

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