OsecoElfab

XPLO-GARD™

Safe, accurate flameless venting designed for **ease of use** *and* **maximum efficiency**

EASY TO INSTALL / EASY TO INSPECT / ACCURATE EFFICIENCY RATINGS

A **Halma** company

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XPLO-GARD™

Safe / Efficient / Easy to Use

The **Xplo-Gard** flameless explosion vent is a rectangular device offering protection from dust and gas explosions. It combines an internal explosion panel with a stainless steel mesh to relieve overpressure, prevent flame, heat and dust particles from entering the environment, and reduce the risk of a secondary explosion.

During a deflagration, the panel bursts to allow pressure, heat, gas, and burnt and unburnt particles to safely exit the vessel or pipework. The mesh quenches the flame and cools the burning dust or gases to below their ignition temperature. Fire and dust are retained within the flameless vent body. All that emerges from the Xplo-Gard vent is smoke.

Xplo-Gard is certified for use both indoors and outdoors. For indoor applications, it provides a solution that is quick and easy to install compared to the often complex and expensive ductwork or pipe installations required for exterior venting.

Flameless Vents

XPLO-GARD™ HW
Heavy-weight version for vessels with a Pred of up to 33 psi / 2.3 bar

XPLO-GARD™ LW
Light-weight version is up to half the weight of the HW version

XPLO-GARD™ CURVE
Features a curved flange for mounting directly onto cylindrical vessels

XPLO-GARD™ STAINLESS
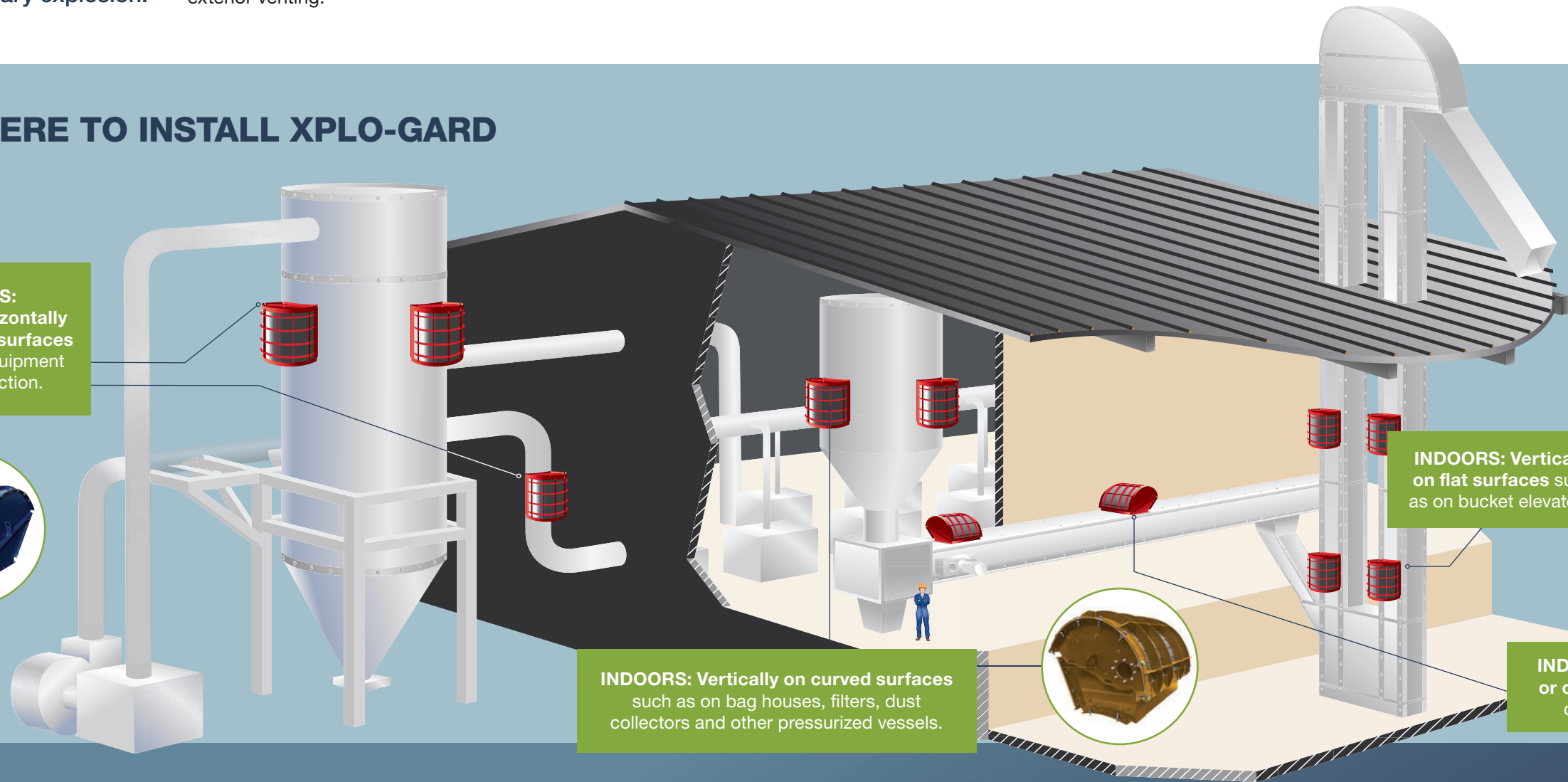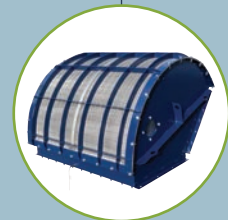*Vent body in 316 Stainless Steel for use in hygienic or damp environments*

INNOVATIONS TO BENEFIT YOU:

- **Access hatch** to install the explosion panel inside the vent body

- **Viewing windows** for quick, easy inspection (LW version only)

- **Largest size range** on the market.

- **Full engineering review** to achieve the most suitable efficiency rating for your application

WHERE TO INSTALL XPLO-GARD

OUTDOORS: Vertically or horizontally on curved or flat surfaces of pressurized equipment requiring protection.

INDOORS: Vertically on curved surfaces such as on bag houses, filters, dust collectors and other pressurized vessels.

INDOORS: Vertically on flat surfaces such as on bucket elevators.

INDOORS: Horizontally on flat or curved surfaces such as on ductwork, pipes or tubes.

XPLO-GARD™
Pioneering Safety Excellence

Xplo-Gard LW *Light-weight version Pred: 7 psi / 0.5 bar*
Xplo-Gard HW *Heavy-weight version Pred: 33 psi / 2.3 bar*

✓ Versatile
- Certified for use in ATEX zones 21 and 22
- Pred capability is higher than competitors
- Largest size range on the market
- Xplo-Gard will never be the limiting design factor on your equipment

✓ Flexible
- Custom options available outside our standard sizes
- Curved vent is engineered to your specifications
- Always find a vent that meets your needs

✓ Efficient
- Xplo-Gard's Pstat tolerance of +/-15% raises the bar on the industry standard of +/-25%. This enhances safety and efficiency, extends the product lifespan, and facilitates regulatory compliance.

STANDARD FEATURES
- Mild steel body
- Epoxy coating in orange
- Stainless steel mesh
- 1x FV explosion panel included
- 1x Xplo-Tel burst sensor included

OPTIONAL FEATURES
- Stainless steel body
- Dust cover
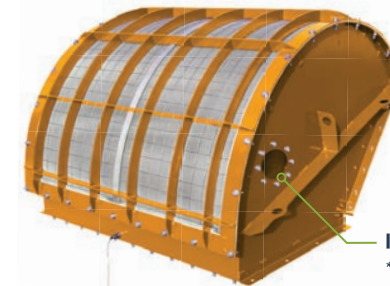- Silicone gasket
- Alternative colors available

CERTIFICATION
- NFPA 68 compliant
- ATEX Ex II GD - EX II 2 D
- EC Certificate

CERTIFIED FOR
- Organic dust
- Fiber dust
- Gas
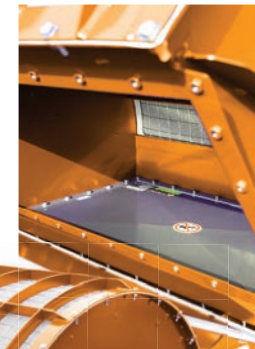
EASY TO INSTALL AND MAINTAIN

INSPECTION WINDOW
- Easily check dust levels and panel status while system remains pressurized

Inspection* window
*LW version only

ACCESS HATCH
- Install the panel inside the vent body
- Panel is protected during installation
- Easily install the panel after the vent body has been attached
- Easily inspect and change out the panel with no need to remove the vent body.

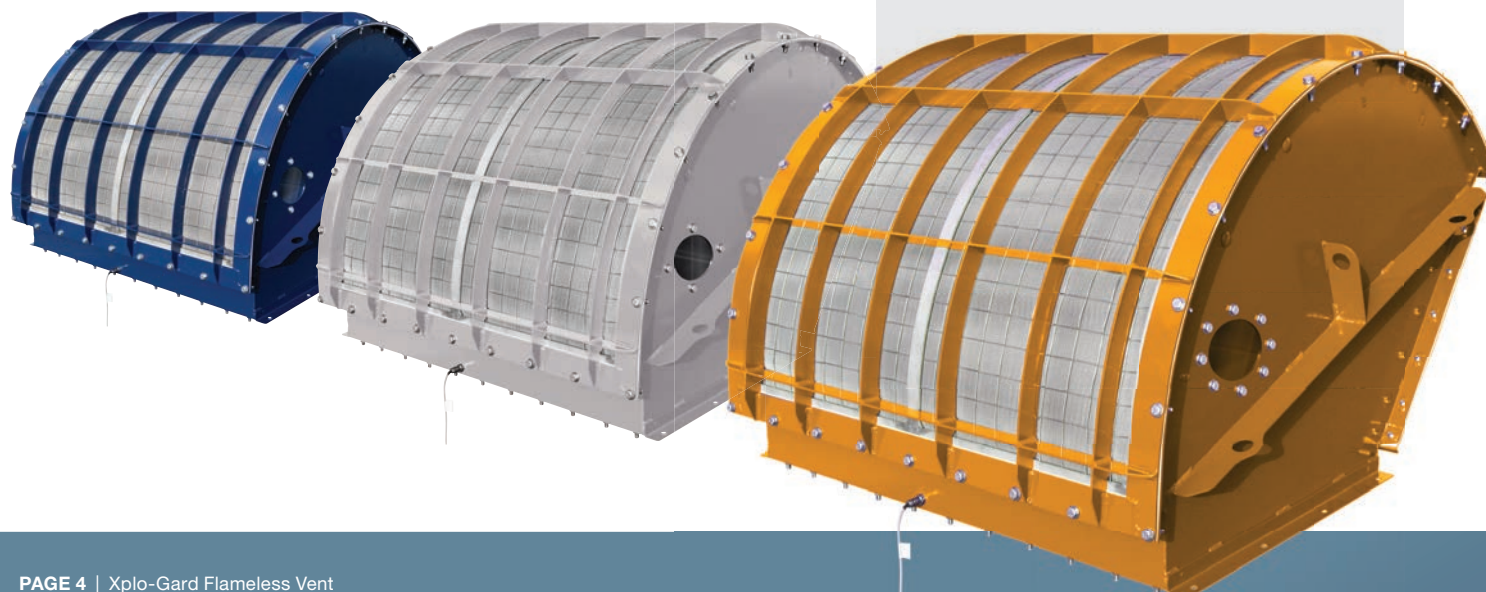Access hatch

Why OE?

Full Engineering Support
- **Dedicated engineer** for fast, direct support
- **Accurate vent sizings** and efficiency ratings. You may also be able to reduce the size and weight of your flameless vent with no compromise on efficiency.

First-Class Service
- **Sure ships/fast-track orders** for expedited delivery
- **Emergency hotline** for US-based customers

Transparency
- **Transparent pricing:** Flameless unit, vent panel and sensor are all included in the price
- **Transparent documentation:** Full certification and documentation is freely available

TECHNICAL SPECIFICATIONS

Xplo-Gard LW	Kst max 500	Pmax ≤ 145 psi / 10 bar	Pred ≤ 7 psi / 0.5 bar	Pstat = 1.45 to 4 psi / 0.1 to 0.3 bar
Xplo-Gard HW	Kst max 500	Pmax ≤ 145 psi / 10 bar	Pred ≤ 33 psi* / 2.3 bar*	Pstat = 1.45 to 7 psi / 0.1 to 0.5 bar

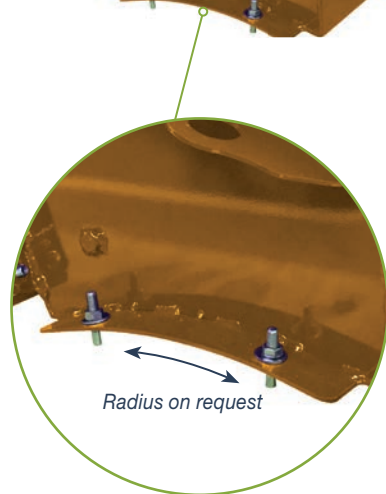*Pred < 26 psi / 1.85 bar for Xplo-Gard sizes >23" x 35"*

DIMENSIONS

inches	11 x 18	12 x 20	12 x 24	14 x 26	19 x 23	24 x 24	18 x 35	23 x 36	25 x 44	36 x 36	44 x 44
mm	270 x 458	300 x 500	305 x 610	350 x 650	490 x 590	610 x 610	457 x 890	586 x 920	645 x 1130	920 x 920	1130 x 1130

XPLO-GARD CURVE

Xplo-Gard Curve features a unique, curved flange that allows you to mount it directly on to cylindrical vessels. There is no need to purchase or fabricate an additional metal collar or other flange adapter. The curved design also reduces the risk of dust accumulating in front of the explosion vent panel and preventing it operating properly in an emergency.

Every Xplo-Gard Curve is custom-designed according to customer specifications. Our engineers precisely shape the radius of the curved flange to ensure a seamless, leak-tight fit with your cylindrical vessels.

Radius on request

STANDARD FEATURES
- Mild steel body
- Epoxy coating in orange
- Stainless steel mesh
- 1x FV-C curved explosion panel with EPDM gasket included
- 1x Xplo-Tel burst sensor included
- Mounting radius custom-designed to your specifications

OPTIONAL FEATURES
- Stainless steel body
- Dust cover
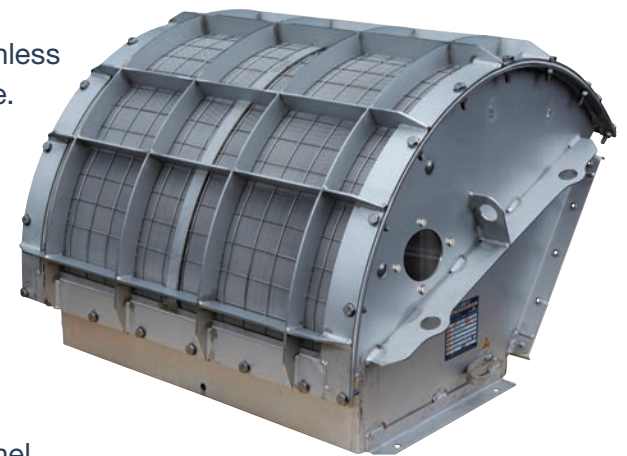- Silicone gasket
- Alternative colors available

XPLO-GARD STAINLESS

Xplo-Gard Stainless features a vent body in 316L stainless steel for enhanced cleanability and corrosion resistance. Xplo-Gard Stainless meets the hygienic and sanitary standards for food manufacturing

This makes it the ideal option for hygienic and sanitary environments such as food & beverage manufacturing or pharmaceutical facilities, as well as for particularly damp or moist environments.

Use Xplo-Gard Stainless with either a flat or domed panel, depending on your process and application requirements.

STANDARD FEATURES
- 316L stainless steel body
- Uncoated
- Stainless steel mesh
- 1x FV-F or FV-D explosion panel with gasket included
- Gasket material is FDA / 11935/2004 CE white silicone
- 1x Xplo-Tel burst sensor included

OPTIONAL FEATURES
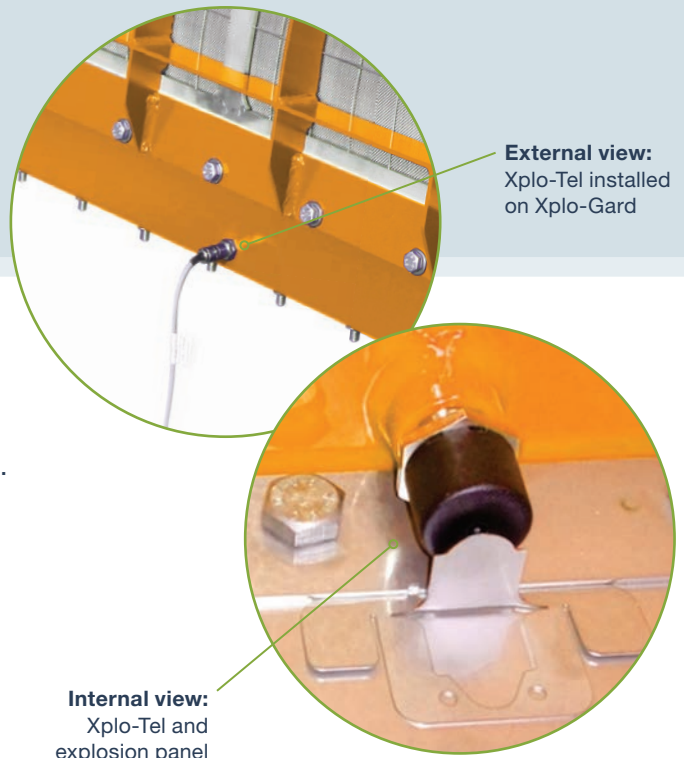- Dust cover
- Epoxy coating in a range of colors available

XPLO-TEL™

External view:
Xplo-Tel installed
on Xplo-Gard

Xplo-Tel is an ATEX certified burst sensor. We equip Xplo-Gard with the Xplo-Tel sensor as standard. The inductive sensor does not break when the panel bursts. It can be re-used for a new panel with no need for re-wiring. A breakable and non-reusable sensor, Xplo-Tel BK, is available if required.

Connect Xplo-Tel to an audio or visual alarm system for immediate notification of panel activation.

Xplo-Tel's maximum temperature determines the maximum operating temperature of Xplo-Gard:
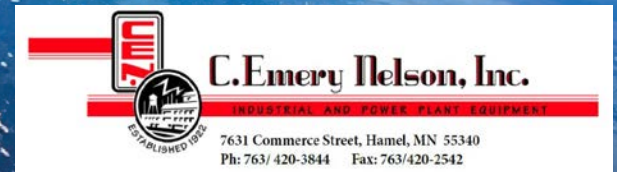≤ +284°F/140°C

Internal view:
Xplo-Tel and
explosion panel

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