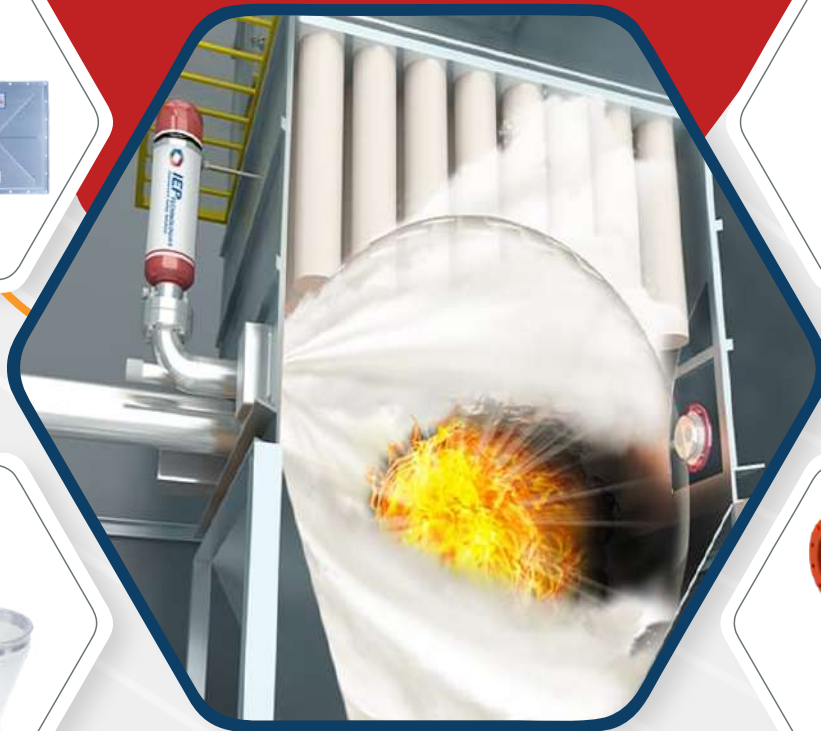
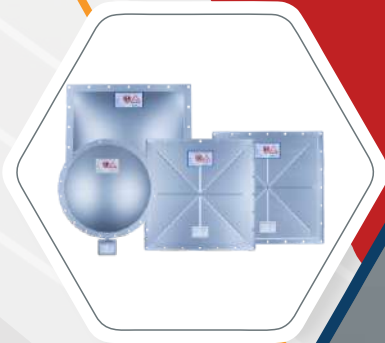




EXPRO TECHNOLOGIES



COMPREHENSIVE SOLUTIONS FOR
PROCESS AND EXPLOSION SAFETY

OUR PRODUCTS

Overpressure Protection | Explosion Protection | Bulk Solids Handling

www.exprotech.in

ABOUT US

Expro Technologies

Expro Technologies is a process and explosion safety solutions provider established by experienced professionals with more than **15 years of combined industry experience** in process safety, explosion protection, and bulk solids handling. We adopt a consultative, engineering-driven approach, focusing on long-term risk reduction rather than short-term product supply.



Our team works closely with customers to understand their processes, identify hazards, and implement practical, compliant, and cost-effective safety solutions. From explosion protection and isolation systems to over pressure protection and bulk solids handling solutions, Expro Technologies supports clients throughout the entire project life cycle — from concept and engineering to installation, commissioning, and ongoing support.

At Expro Technologies, safety is not just a service — it is a responsibility and a long-term commitment.



Our Mission

To understand customer challenges, identify potential risks, and deliver practical, compliant, and effective process and explosion safety solutions through engineering expertise and industry experience.



Our Vision

To be a trusted global partner in process and explosion safety, setting benchmarks in safety excellence and supporting safer, more resilient, and sustainable industrial operations.

• WHY CHOOSE US •



QUALITY
ASSURANCE



WIDE RANGE
OF PRODUCTS



EXPERIENCED
TEAM



CUSTOMER-CENTRIC
APPROACH



TIMELY
DELIVERY



COMPETITIVE
PRICING

Our Products

Over Pressure Protection

◆ Rupture Disc



Rupture Discs are safety devices with a defined breaking point, which respond to a specific pressure and are used for pressure relief in the most diverse range of applications. They are used to protect against over pressure or vacuum within a process, for the protection of man, environment and machine.

Features :

- Sizes : ½ " up to 36"
- Material of Construction : SS 304, SS 316, Monel, Nickel, Hastelloy and other material on request.
- Suitable for Liquid, Vapour and Gas Applications.
- Non Fragmenting Design
- Design compliance as per API and ASME Standards

Accessories :

- Holder, Burst Indicator, PTFE Coating

◆ Pressure & Vacuum Relief Valve (Breather Valve)

The Breather Valve is a protection device mounted on a nozzle opening on the top of a fixed roof atmospheric storage tank. Its primary purpose is to protect the tank against rupturing or imploding.

Features :

- Size : 1 " up to 12"
- Material of construction : Housing in Cast Aluminium, Cast Steel, SS 304/316. Seats and Pallets in Aluminium and SS 304/316.
- Venting capacities certified in accordance with API/ISO and EN standard.



◆ Pressure Relief Valve



A relief valve or pressure relief valve (PRV) is a type of safety valve used to control or limit the pressure in a system.

Features :

- Size : ½ " up to 10"
- Material of Construction : CS, SS 304, SS 316, PTFE Coated and other material on Request.
- End Connection : Flanged, Threaded, TC Ended.
- Design compliance as per API and ASME Standards.
- Applications : Air, Liquid, Vapour, Oil & Gas and many more.

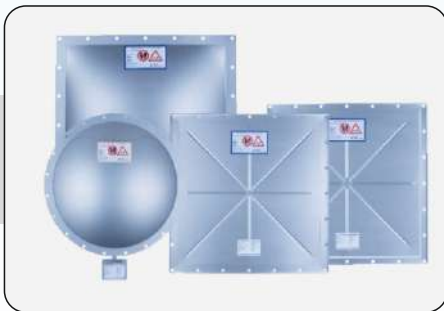
Explosion Protection

◆ Explosion Venting

Explosion venting is a recognized method of protecting personnel and equipment by relieving excess pressure generated during a deflagration event. Properly designed explosion vents limit internal pressure rise and reduce structural damage to equipment and buildings.

All explosion venting solutions shall be engineered, sized, and applied in accordance with internationally recognized standards, considering enclosure volume, explosion characteristics, and allowable reduced pressure.

◆ Explosion Vent Panels



Explosion vent panels are low-inertia pressure relief devices designed to open at a predetermined static activation pressure (Pstat), allowing controlled release of explosion pressure.

Features :

- Low-inertia, non-fragmenting design.
- Available in square, rectangular, & round configurations.
- Materials of construction: SS 304, SS 316, & other materials on request.
- Custom sizes available based on vent area calculations.
- Designed for wall or roof mounting.
- Designed in accordance with NFPA 68.
- Designed in accordance with EN 14491.

Note: Explosion vent sizing, quantity, and placement shall be determined by a qualified engineer based on enclosure volume, explosion severity, and allowable reduced pressure (Pred).

◆ Flameless Explosion Venting

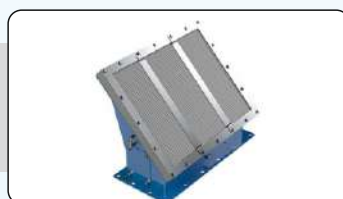
Flameless explosion venting is used where conventional explosion venting cannot be safely applied, such as indoor process equipment or areas without a safe vent discharge zone.

Flameless vents relieve explosion pressure while quenching the flame, preventing flame propagation into the surrounding area.

Model	Typical Application	Standard
EVN	Indoor dust vessels	EN 16009
IVE	Bucket elevators	EN 16009
IV8	Indoor process equipment	EN 16009



EVN Flameless Vent



IVE Flameless Vent



IV8 Flameless Vent

Features :

- Pressure relief without flame ejection
- Low opening pressure and fast response
- Integrated flame arresting mesh
- Optional burst detection sensor
- Optional weather protection
- Certified in accordance with EN 16009

◆ Explosion Isolation Valve (IsoFlap)

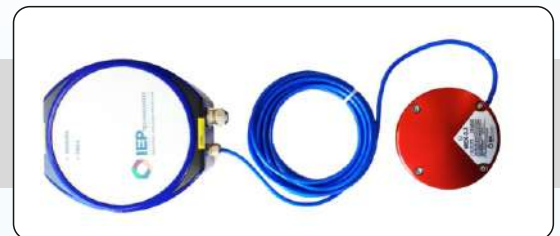


The IEP Technologies range of passive isolation flap valves are low cost and reliable explosion isolation solutions which mitigate explosion propagation risks to upstream equipment. These passive isolation solutions are effective, self-actuating devices providing inlet explosion isolation to protected vessels handling combustible dusts such as dust collectors, cyclones, and other process equipment.

Features :

- Passive design without triggering sensors.
- Certified according to EN16447.
- IsoFlap-M monitored version fully compliant to NFPA 69 with continuous dust accumulation and flap position monitoring.
- Low pressure drop.
- Short mounting distances.

◆ Explosion Suppression System

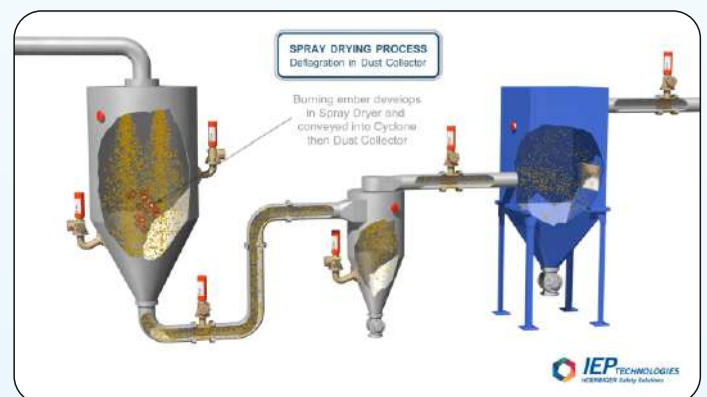


An explosion suppression system consists of three components: a (i) detector; (ii) control unit; and (iii) suppressor(s). In the event an ignition occurs, the fireball expands from the ignition kernel with the pressure wave (created by the increase in temperature) travelling ahead of the flame front.

Explosion pressure detectors are configured to respond to the characteristic pressure increase within milliseconds.

Features :

- Quick system response.
- Highly efficient technology.
- Suitable for toxic and otherwise hazardous materials.
- Independent archiving of data from the detector.
- Possibility of adjustment according to customer requirements.



◆ VENTEX Explosion Isolation Valve

As a passive explosion isolation valve the VENTEX has been acting as an effective and reliable pressure and flame arrestor completely without external energy, control and detection with numerous configuration and application options.

- Features :**
- Size DN100 up to DN600.
 - Passive protection system, no detection and control necessary.
 - Connection flange according to EN 1092-1 or ASME B 16.5 Class 150.
 - Low pressure drop and can be used vertically and horizontally.



◆ ATEX Certified Flame Arrester



A flame arrester is a safety device that is fitted to the opening of an enclosure, or to the connecting pipe work of a system of enclosures, and whose intended function is to allow flow but prevent the transmission of flame in the event an ignition takes place. The Breather Valve is a protection device mounted on a nozzle opening on the top of a fixed roof atmospheric storage tank. Its primary purpose is to protect the tank against rupturing or imploding.

Features :

- Size : ½ " up to 24".
- Available in Inline and End of Line type.
- Material of Construction : Housing in CS, Stainless Steel, Aluminium and Internal element in SS 316 and other material on request.
- Good for Explosion gas group IIA1, IIA, IIB1, IIB2 & IIB3, IIB & IIC.
- Certified to ATEX Directive 94/9/EC in compliance with EN ISO 16852:2010.

Bulk Solids Handling

◆ Food Grade Flexible Connections/Bellows

Flexible connectors are generally used to connect an equipment with moving components and fixed duct or pipe network. We deal in flexible connections for Bulk Solids Handling in Food, Pharma, Dairy and Chemical industries.

Features :

- Standard as well as customised solutions available.
- Material of Construction : Polyurethane, Silicone, EPDM, Natural Rubber.
- Antistatic and food grade materials available.
- Atex and FDA certified.





Installation, Commissioning and Maintenance

Installation and commissioning of explosion protection systems are crucial for long-term safety. Keep your systems running at peak performance with expert support, including emergency services and spare parts management.



Modification and Maintenance of system

We offer comprehensive modification and maintenance services to enhance the efficiency and safety of your existing systems. Maintaining explosion protection and process safety systems requires routine inspections and upgrades.

OUR SERVICES



Consultation on Dust Explosion

With in-depth expertise in explosion safety, we provide consultation services to assess, mitigate, and prevent dust explosion risks. Our experts help you implement tailored safety measures, ensuring compliance with industry standards and regulations.



Engineering Services

From system design to performance optimization, our engineering services are designed to improve safety and operational efficiency. We offer end-to-end solutions, including risk assessment, process improvement, and customized safety system integration.

Industries We Serve



Pharmaceutical



Chemical



Paint



Minerals



Food & Dairy



Oil and Gas



Petrochemical



Mining & Cement

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**“PROTECTING PROCESSES, PEOPLE, &
ASSETS WITH PROVEN EXPLOSION
PROTECTION SOLUTIONS.”**