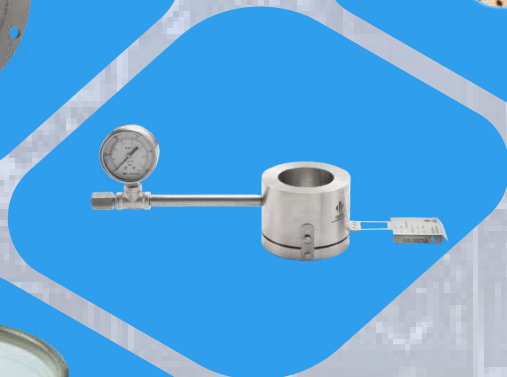
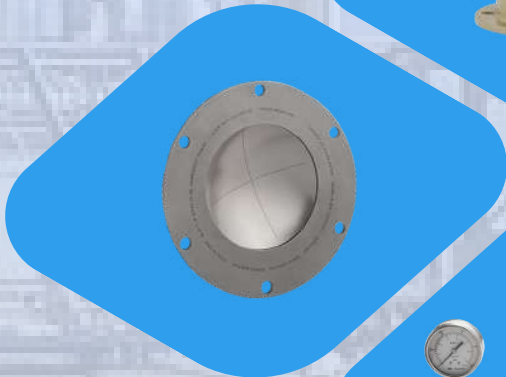
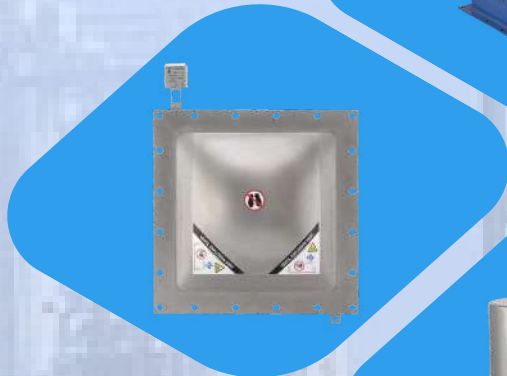




**VENTIL**  
**COMPONENTS PVT LTD**  
For your Safety



# Rupture Disc

Rupture disc are most commonly used over pressure protection devices in industrial plants.

## Features and Benefit:

- Size: Manufactured Rupture discs from 1/2" up to 36"
- MOC: SS 304 / SS 316 / Monel / Nickel / Hastelloy / PTFE Coating (other on request)
- Non Fragmenting design
- Application specific design for SIP / CIP
- Suitable for Liquid, Vapour and Gas Applications
- Design compliance as per ASME & API
- Application specific designs available on request

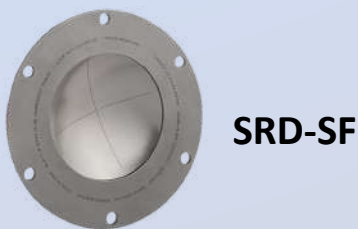
## Accessories:

- A) Holders
- B) Tale Tell Indicator Assembly
- C) Electrical Indication

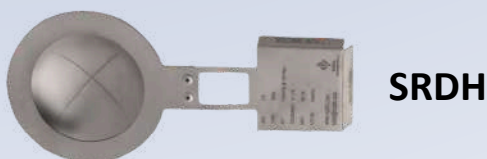
## 1) Reverse Acting Rupture Disc



SSR



SRD-SF

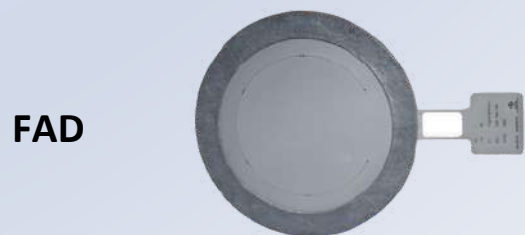


SRDH

## 2) Forward Acting Rupture Disc



CRD



FAD

# Holders

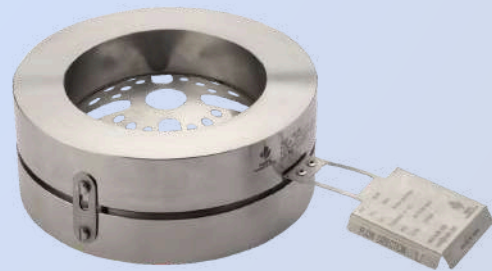
Some Rupture discs require Holders are required for Rupture discs to ensure proper installation and performance. Based on the burst pressure of Rupture discs, the Holders are designed to install in between standard flanges. Flange ratings can be ANSI, DIN or ISO flanges as per customer requirements.

We also have threaded holders for smaller sizes like  $\frac{1}{4}$ " ,  $\frac{1}{2}$ " and 1".

Standard MOC available is SS 304 or SS 316. Other material available on request.



**SRDH**



**LPVD - H**



**STH**



**Holder with TTI**



**Pre-Torquable Holder**

# Safety Relief Valve

Safety Relief Valve is used to Control or Limit the Pressure on System.



## Features and Benefit:

- Size: From 1/2" to 4"
- End Connection: Flanged/Threaded/TC End
- Spring loaded, closed bonnet safety relief valve
- MOC: SS 316, 304, CS, PTFE coating & other on request
- Design compliance as per ASME & API
- Manufactured from bar stock and casting
- Applications: Steam, Air, Vapour, Liquid, Oil, Hydrogen Gas & many more

# Flame Arrestor

Flame Arrestor is a passive device that allows gas to pass through it but stops the propagation of a Flame in order to prevent a larger fire or explosion.

## Features and Benefits:

- Size: From 1" to 12"
- Body Material: CS, SS 316 & Other on request
- End Connection: Flanged ANSI 150 B16.5 RF
- Prototype tested and certified as per IS 16485 2016 (ISO 16852:2008)
- High Efficiency, Less Maintenance, Easy Cleaning & Installation
- CIMFR certified for Gas group IIA, IIB, IIB3 and ATEX certification (available on request).
- Applications: Storage Tanks, Process Vessels, Transport Containers, Offshore Platforms & many more.



In Line Flame Arrestor



End Of Line Flame Arrestor

# Breather Valve

Breather Valve is combination of Pressure and Vacuum Relief Valve which protects tanks and vessels from possible damage due to over pressure and vacuum.



## Features and Benefits:

- Sizes: 1", 1.5", 2", 3", 4", 6", 8"
- End Connection: Flanged to ANSI B16.5 #150 RF
- Protect the tank against over Pressure/over Vacuum
- Body Material: CS, Stainless CF8, CF8M
- Type: Weight Loaded/Spring Loaded
- Vent Capacity as per API 2000.

# Emergency Vent

All large size storage tanks need emergency venting caused due to fire in adjoining area.

The relief requirements are met by making provision of Emergency vent as per API standard.

## Features and Benefits:

- Size: 6" to 24"
- End Connection: Flanged to ANSI B 16.5 #150 RF
- Body Material: CS, SS304, SS316
- Type: Hinged/ Spring Loaded





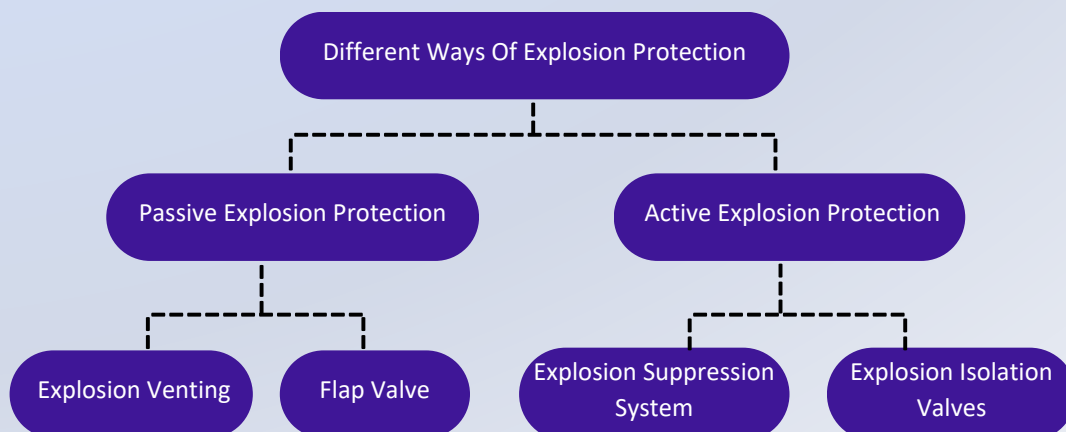
# Explosion Protection Solution

## What Is Explosion?

An explosion is a rapid expansion in volume associated with an extremely vigorous outward release of energy usually with the generation of high temperatures and release of high-pressure gases.



## Explosion Occurs:



## Equipment Application Area:

Spray dryer, Cyclones, Silo, Bag filter / Dust Collector, Bucket Elevator and many more

# Explosion Vent

An explosion vent is a safety device to protect equipment or build in against excessive internal, explosion-incurred pressures, by means of pressure relief. It is designed to rupture safely as a result of an over-pressure.

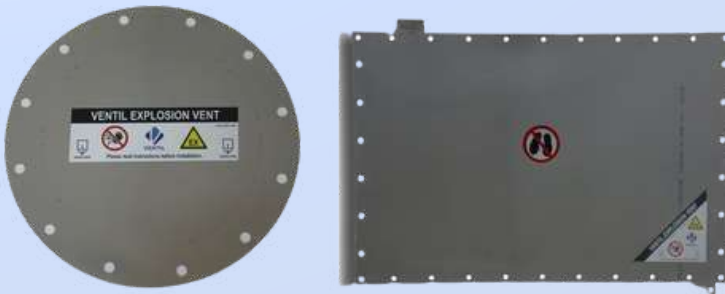
## Features and Benefits :

- Shape: Circular as well rectangular sizes.
- Compliance with EN and NFPA
- Maintenance Free
- MOC: SS 304, SS 316 & other on request
- Non Fragmenting design
- Application specific designs available on request.

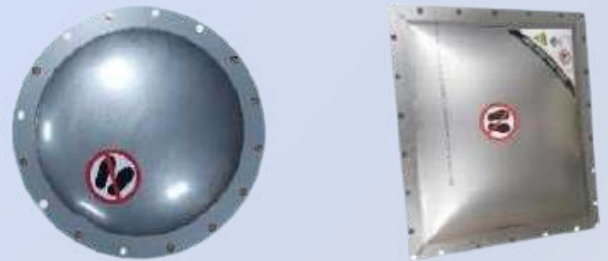
## Accessories :

- A) Magnetic Indicator
- B) Electrical Indicator

### CFV : Composite Flat Vent



### SDV : Sanitary Dome Vent



# Explosion Isolation Valve

If the preventive protection measures are insufficient to reliably prevent an explosion, design measures have to be worked out. Apart from some defined exceptions, this calls for the use of explosion isolation components to protect personnel and systems against damage or injury.



**Ventex Valve**



**Redex Flap Valve**

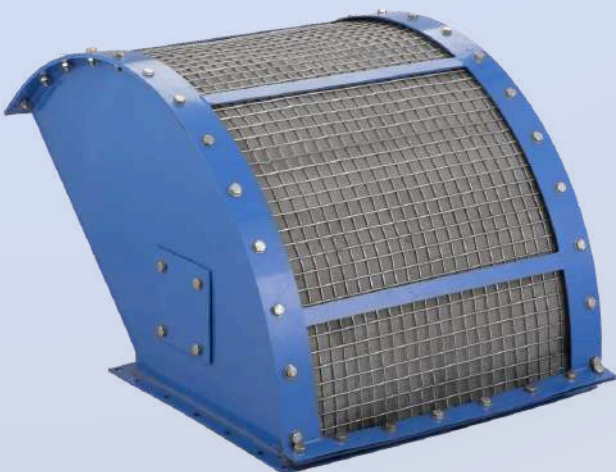
# Flameless Vent

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 directs the vented explosion through the flame arresting element, where flames are extinguished as they pass through the flame arrester material thus preventing flames from being expelled to the surrounding areas preventing secondary explosion.

## Features and Benefits :

- MOC: MS, SS304 and other on request
- Type: Circular as well as Rectangular
- Integrated Vent Burst Sensor.
- Provides explosion pressure relief without flame ejection.
- Superior efficiency due to large mesh area.





# Active Explosion Protection

Active Explosion Protection is a method which involves a set of technical devices including differential Pressure sensors and Light sensors and control panel for early detection of an explosion (pressure and light) and suppress or isolate the (pressure and flame) at the early stage by introducing suppressant and Nitrogen gas into the process equipment to suffocate explosion and pressure. The system operates in milliseconds.

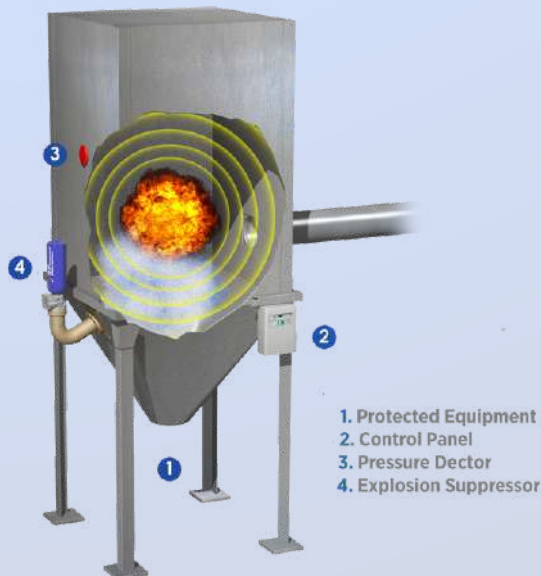
Active Explosion Protection not only mitigates the risk of explosion pressure but also doesn't allow process media directly discharging to atmosphere.

## Components of Active Explosion Protection systems are:

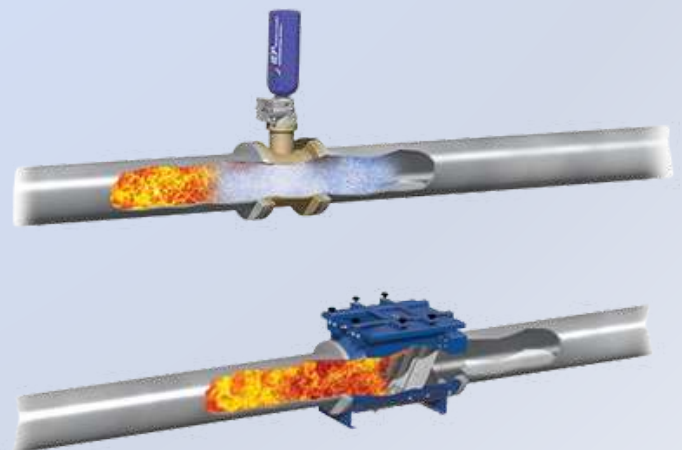
1. Strategically placed Sensors
2. Control Panel
3. Suppressant Containers.

## Spark Detection and Extinguishing :

Spark detection and extinguishing systems are designed to prevent fires by detecting a spark and extinguishing them. A small amount of extinguishing water is used which does not damage the filters or any other production machine. The system can also be integrated with plant PLC or DSC to prevent start-up immediately.



**Explosion Suppression System**



**Explosion Isolation System**



**Control Panel**



**Infrared Detector**

# Pneumatic Conveying Solution

## Flexible Connection

Our flexible connections are widely used for powder transfer application.

### Features and Benefits:

- Clean, Safe and efficient for Food, Pharmaceutical, Chemical and Mineral industries
- FDA and ATEX certified
- Specializes in Custom made production
- Anti-static design available for special application

### Jacob Quick Connect Flexible



Quick Connect Clamp

### Tri Clamp Connect Flexible



### Sure Fit Inline



FSC

FDM

LFR

### Custom Made Production



### Weighing Bellows



Standard  
Silicon

Antistatic  
Black Silicon


Conical  
Bellows

### Inflatable Bag Clamp



CERTIFIED FDA EU 10/2011 EU 1935/2004 ATEX

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## Our Services:

Installation Commissioning Modification, Maintenance of System  
Consultation on Dust Explosion, Engineering Services

## Industries We Serve:



PHARMACEUTICAL



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FOOD & DAIRY



MINERALS



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CHEMICAL



OIL & GAS



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