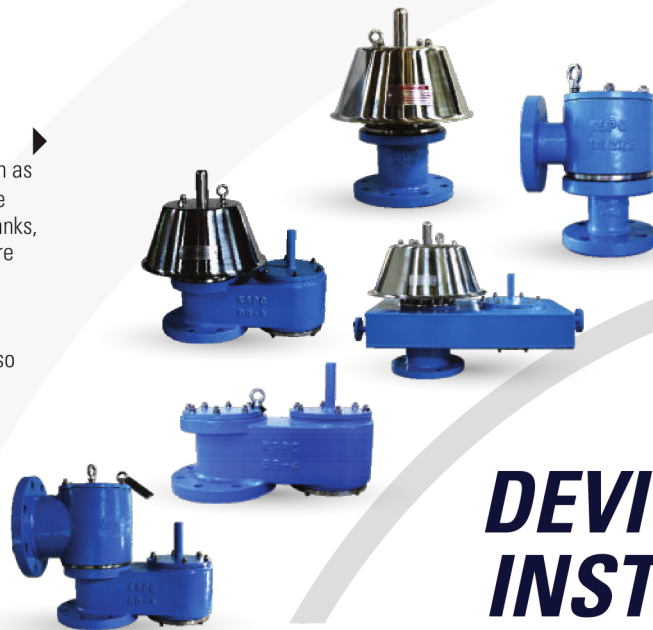


Pressure & Vacuum Relief Valve (Breather Valve) ▶

Direct acting pressure/vacuum relief valves (also known as breather valves, conservation vents, or safety vents) are low pressure devices specifically designed to protect tanks, process systems and equipment from excessive pressure and vacuum.

As well as providing the primary layer of protection for tanks and process systems, pressure/vacuum valves also minimize emission losses of gases or vapors, thus protecting the environment and providing significant financial savings.

The range includes pressure only, vacuum only and combined pressure/vacuum valves, all available with flanged outlets or vented to atmospheres.



DEVICES INSTALL ILLUSTRATION

Flame Arrester ▶

Flame arresters are fitted to the opening of an enclosure or to the connecting pipework of a system of enclosures and whose intended function is to allow flow but prevent transmission of a flame. Whenever a flammable gas or vapour is mixed with air/oxygen, there is the potential for an explosion in case of an accidental ignition. It is commonly used in fuel storage tank vents, fuel gas pipeline, burner inlet line, exhaust systems, vapour recovery systems, process pipelines, etc.

Type of flame arresters

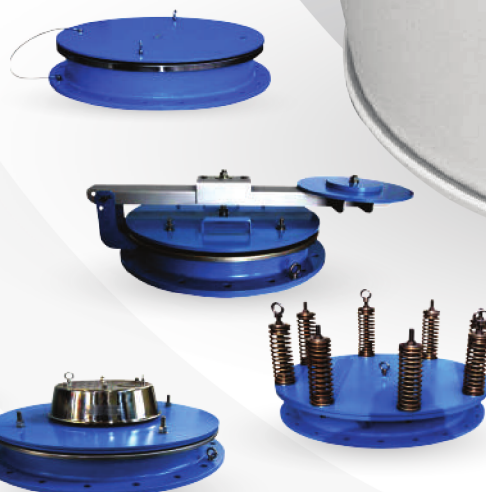
1. End-of-line deflagration arresters
2. In-line deflagration arresters
3. in-line detonation arresters



Emergency Relief Vent & Access Mainways ▶

Non-sparking emergency relief vents permit access to low pressure storage tanks whilst providing emergency venting capacity in the event of fire. These vents are used extensively on bulk storage tanks, including floating roof tanks.

Size range from 10" (250mm) to 24" (600mm). Typical applications include: bulk storage tanks, low pressure gas pipeline systems, digesters and gas holders.



TANK, SAFETY & PROTECTION DEVICE

ALUMINIUM / CARBON STEEL / STAINLESS STEEL



WINTECH

PROSAVE

FDC FDC Co., Ltd.

TOPSAFE

1. Pressure & Vacuum Relief Valve (Breather Valve)
2. Flame Arrester
3. Emergency Relief Vent & Access Mainways
4. Gauge Hatch Cover Pressure Relief
5. Inlet Gas Blanketing Valve
6. Pilot Operated P/V Valve



Pilot Operated P/V Valve

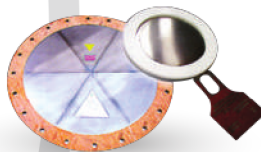
The pilot operated pressure side which permits tank operating pressures closer to the maximum allowable operating pressure. This provides a more positive control over vapor generation inherent in fluids with higher vapor pressures. The vacuum side of the vent is weight loaded and allows intake of air when necessary to remain within the vacuum design rating of the tank.



Tank Blanketing Valve

Tank Blanketing valves offer complete protection to the storage tank product against contamination and to the storage tank itself against rupture or damage. This type of valve is mainly used in the chemical, bulk storage and pharmaceutical industries to reduce emissions and lower the cost of production loss.

In addition to preventing outside air and moisture from entering the storage vessel, a blanket gas pressure reduces the evaporation of the stored product to a negligible amount.



Rupture Disc

Situations that demand a Rupture Disc

- In case there is any concern that there can be an abrupt rise in pressure that cannot be endured by a spring type safety valve.
- In case there is any concern that fixtures generated by the operation state may damage the operation function of other safety materials owing to excessive pressure.
- In case the leakage of oil reserved in a tank from a safety device is not permitted during an operation.
- In case there is a need to have a protective device in preparation for a container and pipe that reserves or produces oil of a strong corrosive nature.
- In case of handling or reserving materials that are likely to undergo a synthetic reaction.
- In case there is a possibility that an excessively high or low temperature in the operational environment might inhibit the operation of a safety valve.



Gauge Hatch Cover

The sampling and gauging hatch Cover, is designed, manufactured and tested according to the KSPC standard code. It is made to take the fluid samples from the storage tank, to measure the temperature, and to take test of the stored fluids

