

Blanketing Valves for Low Pressure Tanks



Protecting People, Property and our Planet.

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 improve recovery efficiency, thereby reducing emissions and lowering the cost of product 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.

Principle of operation

The operating principle of the tank blanketing valve is to maintain a positive pressure within an enclosed storage tank by introducing a gas such as nitrogen into the vapour space above the product at a required pressure.

This 'blanket' prevents the stored product from vaporising into the atmosphere, prevents contamination to the stored product and also helps to reduce product combustibility by eliminating oxygen-rich air.

The valve also offers primary vacuum relief for the storage tank, acting as a pressure regulator. It does this by supplying gas to the vapour space when pressure decreases within the tank to the valve's set point.

Once the gas blanket is re-established to the required pressure the valve closes.

Elmac expertise

Elmac have been manufacturing protection equipment since 1948 and bring enhanced levels of flame and explosion protection to a diverse range of applications.

Elmac offers considerable technical leadership and, using test facilities along with Computational Fluid Dynamics capabilities, employs research teams renowned for developing solutions for the most challenging of industrial applications.



Features and Benefits

- Range of sizes available from 15mm to 50mm
- All parts that come into contact with the product consist of stainless steel or Hastelloy with smooth surfaces
- The valve is manufactured in an oil and grease-free environment, is self-actuating and no control line is needed for operation
- The inert (oxygen-free) atmosphere reduces the risk of fire which could reduce the cost of your insurance premium
- Tank corrosion is reduced
- Reduction from very high primary pressure (up to 16 bar) to very low setting of 2 mbar
- High accuracy settings achieved, in order to avoid any interaction with relief valves

Customer Support

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