

Pesflow
ONE STOP INDUSTRIAL VALVE SOLUTIONS



PRESSURE & VACCUM RELIEF VALVE (BREATHER VALVE)

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OVERVIEW

Direct acting pressure/ Vacuum relief valves (Breather valve) is special designed for tank protection. The range includes combined pressure vacuum valves, all available with Flanged outlets or vented to atmosphere.

Pressure/vacuum relief valve is used extensively on bulk storage tanks, including fixed roof with floating covers, to minimize evaporation loss. The valves prevent the buildup Of excessive pressure or vacuum which can unbalance the system or damage the storage vessel.

Why PES PVRV?

- Every product has to pass our regress testing before it is release for despatch.
- Fully customized & cost effective solutions as per project requirements.
- Ranges of size and materials to suit a wide range of applications.
- Wide range of pressure and vacuum settings to provide maximum tank protection.
- Designed for long life and least maintenance.
- Available in dead weight and spring loaded mechanism.
- Fast acting, quick operating device.

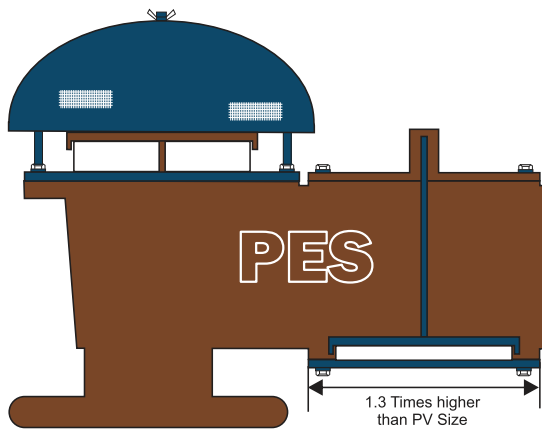
Special Features

- The diaphragm design such that blow down is minimized to 10-15% for pressure relief and 15-20% for vacuum relief
- Low leakage and reduced vapor loss.
- Easy maintenance
- High flow capacity
- Fully field replaceable pallets and seat assemblies without need for special tools and complex procedures

Applications

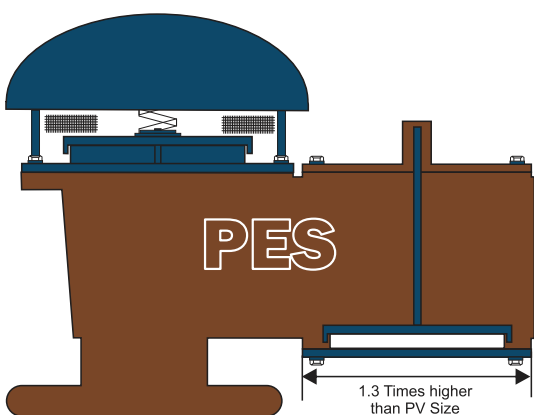
- Digesters & gas holders
- Storage tank vents
- Oil/petrochemical refineries
- Offshore drilling platform vents.
- Flare stakes pulp & paper nag processing
- Vapor inclination systems
- Chemical processing plants
- Marine loading systems
- Vapor recovery systems
- Sewage treatment vapor processing
- Pharmaceuticals

- Diaphragm design as per compatibility of chemicals. Hence, we are providing 5 years diaphragm guaranty.
- Dead weight design such that set pressure/vacumm can be changed as per need.
- Vacuum port area 1.3 times higher than PV size. By this, we increased in breathing flow by 30% of required flow.
- PVRV designed, manufactured and tested as per api 2000 standard 7th edition.



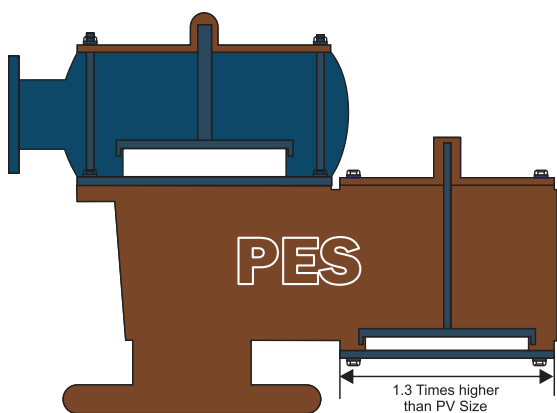
Open Vent Dead Weight Loaded

- The Valve pallet is guided within housing to protect against the weather.
- Seal best to the normal values, which minimize product loss.
- Maximum flow with low pressure drop.
- All Body Of PVs are made by Invest Casting (Lost Wax Process).



Open Vent Spring Loaded

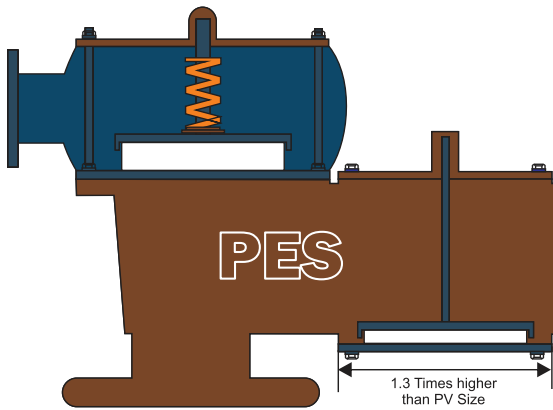
- Higher set pressure/vacuum from mmWC to kg/cm² will be achieved by spring.
- Seal best to the normal values, which minimize product loss.
- Maximum flow with low pressure drop.
- All body of PVS are made by invest casting (lost wax process).
- Available MOC: A216 Gr. WCB, CF8, CF8M and Aluminium LM-6.



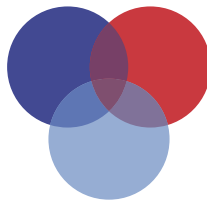
Pipe Away Dead Weight Loaded

- Hazardous vapors can be transferred to a safe area or incinerator by pipe away type design.
- Seal best to the normal values, which minimize product loss.
- Maximum flow with low pressure drop.
- Vacuum side flange can be provided for nitrogen blanketing.
- All body of PVs are made by invest casting (lost wax process).
- Available MOC: A216 Gr. WCB, CF8, CF8M and aluminium LM-6.

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PERFECT ENGINEERING SERVICES

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