



PRODUCT CATALOGUE

Breather Valves

PRESSURE / VACUUM RELIEF

Protect storage tanks from over-pressure and vacuum damage caused by thermal changes and fill/empty cycles.





Overview

A Breather Valve, also known as a Pressure Vacuum Relief Valve (PVRV), is a critical safety device installed on low-pressure storage tanks to protect them against excessive internal pressure and vacuum conditions.

PRECON® Breather Valves automatically open at predetermined pressure or vacuum settings during tank filling, emptying and thermal changes, allowing the tank to breathe safely while remaining closed under normal operating conditions. This helps protect the tank from structural damage, minimizes unnecessary vapour losses and reduces the release of potentially hazardous vapours into the atmosphere.

Designed for reliable operation in demanding industrial environments, PRECON® Breather Valves combine tank protection, product conservation and operational safety in a single engineered solution.

Key Features

- Dual-purpose design combining pressure/vacuum relief and flame protection
- Provides controlled pressure relief during tank out-breathing
- Provides controlled vacuum relief during tank in-breathing
- Integrated flame arrester provides a barrier between external flame and internal flammable vapours
- Compact configuration reduces the requirement for multiple separate tank-mounted devices
- Available in open vent and closed vent configurations
- Optional all-weather protective coating, insulation jackets and steam jacketing
- Available in sizes from 2" through 12"

Available Configurations

PRECON® conservation venting solutions are available in different configurations depending upon the operating and process requirements of the storage tank.



TYPE 01

Pressure Vacuum Relief Valve

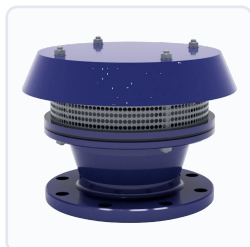
Provides both pressure and vacuum protection in a single unit, automatically relieving excess internal pressure during out-breathing and allowing controlled air or vapour entry during vacuum conditions.



TYPE 02

Vacuum Relief Valve

Protects storage tanks against excessive internal vacuum that may develop during product withdrawal, rapid cooling or condensation of tank vapours, opening at a predetermined vacuum setting.



TYPE 03

Pressure Relief Valve

Protects against excessive positive pressure inside the storage tank, opening to safely relieve vapours once the predetermined set point is reached and reseating when normal conditions resume.



TYPE 04

Pipe Away Type

For installations where discharged vapours are not released directly to atmosphere. The outlet connects to a vent header, vapour recovery system or disposal system per plant requirements.

Typical Applications

- Crude and refined product storage tanks
- Tank farms and marketing terminals
- Petrochemical intermediate storage

One System. Multiple Layers of Protection.

Pressure controlled.

Vacuum protected.

WHY PRECON

Built for the demands of the global process industry.

Since 1975

Five decades engineering tank safety equipment

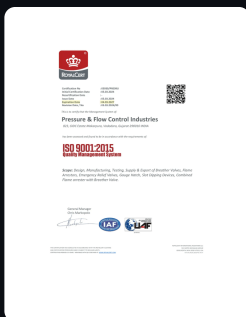
400+ Customers

Served across India and international markets

ISO Certified

9001 · 14001 · 45001 quality & safety systems

CERTIFICATIONS



ISO 9001



ISO 14001



ISO 45001

GET IN TOUCH

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