

Global Battery Pack Pressure Equalization Valve Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Battery Pack Pressure Equalization Valve market size is expected to reach \$ 1893 million by 2032, rising at a market growth of 12.9% CAGR during the forecast period (2026-2032).

Battery Pack Pressure Equalization Valve refers to a complete venting assembly installed on an automotive traction-battery enclosure to balance pressure between the sealed pack and the external environment.

During normal operation, a microporous membrane or controlled breathing path allows air and water vapour to pass while restricting the entry of liquid water, dust and other contaminants. Some products incorporate a mechanical relief mechanism that opens at a specified differential pressure, and dual-stage products provide high-flow emergency degassing during an abnormal internal-pressure event.

The market mainly includes membrane breathing valves, resealable pressure-relief valves, dual-stage equalization and emergency-degassing vents, and multifunction valves incorporating end-of-line leak-test features.

Bare membrane materials, adhesive vent patches without a valve housing, cell-level safety vents, standalone rupture discs, lead-acid battery vents, coolant valves and non-automotive vent products are excluded.

The 2025 benchmark ASP is US\$22 per unit, modeled global sales volume is approximately 34,000k units, and the estimated average manufacturing gross margin is approximately 31%.

The upstream industry chain includes ePTFE and other microporous membranes, engineering plastics, aluminum and stainless steel, elastomers, springs, O-rings, particle filters, flame-arresting materials and fastening components. The midstream includes membrane processing, injection molding, metal forming, valve assembly, welding, sealing, airflow testing, opening-pressure testing, water-ingress testing and thermal validation. The downstream mainly covers passenger cars, commercial vehicles, buses and special-purpose electric vehicles.

A sealed battery pack experiences pressure changes when ambient temperature, altitude and internal temperature change. Without a controlled breathing path, repeated positive and negative pressure can load the pack cover, seals, joints and electrical interfaces.

A pressure-equalization valve allows slow bidirectional gas exchange during normal operation while maintaining protection against liquid water, dust and road contaminants. Gore positions automotive battery vents as components that combine pressure equalization with contamination protection, while Donaldson uses a similar first-stage breathing principle in its dual-stage battery vents. Dual-stage valves therefore use a membrane or controlled passage for routine breathing and a second mechanical opening for abnormal high-flow release. Donaldson describes the first stage as a contamination-protected pressure-equalization path and the second stage as an emergency gas-release mechanism.

The valve does not stop thermal runaway. Its purpose is to reduce uncontrolled pressure accumulation and help direct gas through a defined path.

Report Scope

This report studies the global Battery Pack Pressure Equalization Valve production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Battery Pack Pressure Equalization Valve and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Battery Pack Pressure Equalization Valve that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Battery Pack Pressure Equalization Valve total production and demand, 2021-2032, (K Units)

Global Battery Pack Pressure Equalization Valve total production value, 2021-2032, (USD Million)

Global Battery Pack Pressure Equalization Valve production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Battery Pack Pressure Equalization Valve consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Battery Pack Pressure Equalization Valve domestic production, consumption, key domestic manufacturers and share

Global Battery Pack Pressure Equalization Valve production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Battery Pack Pressure Equalization Valve production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Battery Pack Pressure Equalization Valve production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Battery Pack Pressure Equalization Valve market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Donaldson Company, Inc., W. L. Gore & Associates, Inc., Eaton Corporation plc, Reutter GmbH (REUTIB Group), GVS S.p.A., Shenzhen Milvent Technology Co., Ltd., Dongguan PUW Waterproof Venting Membrane Material Co., Ltd., Voir Technology, Technology International (PorVent?), Jiangsu Pan Asia MicroVENT Technology Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Battery Pack Pressure Equalization Valve market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by

year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Battery Pack Pressure Equalization Valve Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Battery Pack Pressure Equalization Valve Market, Segmentation by Type:

Threaded or Screw-In Type

Snap-Fit or Bayonet Type

Flange- or Bolt-Mounted Type

Global Battery Pack Pressure Equalization Valve Market, Segmentation by Normal Breathing Flow:

Low-Flow Type

Standard-Flow Type

High-Flow Type

Global Battery Pack Pressure Equalization Valve Market, Segmentation by Emergency Degassing Capacity:

Basic Relief Type

High-Flow Degassing Type

Ultra-High-Flow Safety Type

Global Battery Pack Pressure Equalization Valve Market, Segmentation by Application:

Passenger Cars

Light Commercial Vehicles

Medium & Heavy Trucks

Other

Companies Profiled:

Donaldson Company, Inc.

W. L. Gore & Associates, Inc.

Eaton Corporation plc

Reutter GmbH (REUTIB Group)

GVS S.p.A.

Shenzhen Milvent Technology Co., Ltd.

Dongguan PUW Waterproof Venting Membrane Material Co., Ltd.

Voir Technology

Technology International (PorVent?)

Jiangsu Pan Asia MicroVENT Technology Co., Ltd.

Ningbo Kaxite Sealing Materials Co., Ltd.

Suzhou Huilong New Materials Co., Ltd.

Shenzhen Vents Technology Co., Ltd.

Key Questions Answered:

1. How big is the global Battery Pack Pressure Equalization Valve market?
2. What is the demand of the global Battery Pack Pressure Equalization Valve market?
3. What is the year over year growth of the global Battery Pack Pressure Equalization Valve market?
4. What is the production and production value of the global Battery Pack Pressure Equalization Valve market?
5. Who are the key producers in the global Battery Pack Pressure Equalization Valve market?
6. What are the growth factors driving the market demand?

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