

Global Battery Pack Pressure Equalization Valve Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Battery Pack Pressure Equalization Valve market size was valued at US\$ 770 million in 2025 and is forecast to a readjusted size of US\$ 1893 million by 2032 with a CAGR of 12.9% during review period.

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 is a detailed and comprehensive analysis for global Battery Pack Pressure Equalization Valve market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Battery Pack Pressure Equalization Valve market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Battery Pack Pressure Equalization Valve market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Battery Pack Pressure Equalization Valve market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Battery Pack Pressure Equalization Valve market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for Battery Pack Pressure Equalization Valve

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global Battery Pack Pressure Equalization Valve market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Battery Pack Pressure Equalization Valve market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Threaded or Screw-In Type

Snap-Fit or Bayonet Type

Flange- or Bolt-Mounted Type

Market segment by Normal Breathing Flow

Low-Flow Type

Standard-Flow Type

High-Flow Type

Market segment by Emergency Degassing Capacity

Basic Relief Type

High-Flow Degassing Type

Ultra-High-Flow Safety Type

Market segment by Application

Passenger Cars

Light Commercial Vehicles

Medium & Heavy Trucks

Other

Major players covered

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.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe Battery Pack Pressure Equalization Valve product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Battery Pack Pressure Equalization Valve, with price, sales quantity, revenue, and global market share of Battery Pack Pressure Equalization Valve from 2021 to 2026.

Chapter 3, the Battery Pack Pressure Equalization Valve competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Battery Pack Pressure Equalization Valve breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Battery Pack Pressure Equalization Valve market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Battery Pack Pressure Equalization Valve.

Chapter 14 and 15, to describe Battery Pack Pressure Equalization Valve sales channel, distributors, customers, research findings and conclusion.

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