

Global BESS Vent Valves Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G3E85999DF43EN.html>

Date: July 2026

Pages: 117

Price: US\$ 4,480.00 (Single User License)

ID: G3E85999DF43EN

Abstracts

The global BESS Vent Valves market size is expected to reach \$ 265 million by 2032, rising at a market growth of 11.5% CAGR during the forecast period (2026-2032).

BESS vent valves are safety venting and waterproof breathable components used in electrochemical battery energy storage systems. They are mainly installed on battery packs, battery cabinets, battery enclosures, residential storage housings and containerized energy storage systems to balance internal and external pressure under normal operation and to release gas rapidly when abnormal gas generation, thermal runaway, temperature shock or sudden internal pressure rise occurs. The main product forms include waterproof breathable vents, pressure equalization valves, explosion vent valves, dual stage vent valves, burst type pressure relief valves, resettable pressure relief valves and membrane based vent assemblies. Their core materials and processes typically involve ePTFE breathable membranes, porous polymer membranes, rubber sealing parts, metal or engineering plastic housings, precision injection molding, metal stamping, membrane lamination, sealing assembly and air tightness testing. Key specifications include IP rating, air flow rate, opening pressure, burst pressure, operating temperature range, salt spray resistance, flame retardancy, venting response time, resealing performance and long term sealing reliability. These products are mainly used in commercial and industrial energy storage, utility scale battery storage, residential energy storage, telecom backup power and data center backup power systems. In 2025, the global industry average selling price of BESS vent valves is about USD 6 per unit, and the industry average gross margin is about 36%.

BESS vent valves are small but critical safety components within the battery energy storage value chain. The upstream supply base mainly includes ePTFE membranes, porous polymer materials, engineering plastics, rubber sealing parts, metal housings

and precision tooling. The midstream segment consists of manufacturers of waterproof breathable vents, pressure relief valves, explosion vent valves and dual stage venting devices. Downstream demand comes from battery packs, storage cabinets, containerized storage systems, residential energy storage, telecom backup power and data center backup systems. As energy storage projects move from simple capacity expansion toward higher safety and reliability requirements, vent valves are becoming a more regular design element in battery enclosures and cabinets. The product has a relatively low unit value, but its technical boundary is clear, which makes it suitable as an independent component level research topic.

The competitive structure is shaped by international material and sealing technology companies at the high end and fast growing Chinese suppliers in cost sensitive and customized applications. International manufacturers typically have stronger capabilities in membrane materials, weather resistance, venting consistency, dual stage mechanisms and global qualification systems. They are better positioned in premium storage projects and multinational battery supply chains. Chinese suppliers benefit from proximity to storage cabinet, battery pack and residential energy storage manufacturing ecosystems, with advantages in response speed, cost control and customized product development. Competition is therefore not only about price. Future differentiation will likely depend on high flow venting, resettable mechanisms, flame retardant material systems, salt spray resistance for outdoor deployment and integration with broader thermal runaway protection design.

The policy and standards environment is becoming more supportive of safety related components in energy storage systems. Increasing attention to battery storage fire safety, thermal runaway mitigation, outdoor enclosure protection and system reliability is pushing storage integrators to strengthen safety redundancy in new projects. Demand growth will be supported by commercial and industrial storage cabinets, standardized utility scale containers, higher penetration of liquid cooled storage systems and stricter safety expectations in overseas markets. At the same time, the market is not without risks. Average prices may decline as Chinese supply expands, and some system designs may rely on burst panels, cabinet level pressure release structures or fire protection ventilation instead of discrete vent valves. Long term opportunities will be concentrated in professional vent valve products with proven reliability, clear qualification records and stable large scale supply capability.

This report studies the global BESS Vent Valves production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for BESS Vent Valves 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 BESS Vent Valves that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global BESS Vent Valves total production and demand, 2021-2032, (K Units)

Global BESS Vent Valves total production value, 2021-2032, (USD Million)

Global BESS Vent Valves production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global BESS Vent Valves consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: BESS Vent Valves domestic production, consumption, key domestic manufacturers and share

Global BESS Vent Valves production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global BESS Vent Valves production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global BESS Vent Valves production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global BESS Vent Valves 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 W. L. Gore & Associates, Inc., Donaldson Company, Inc., Eaton Corporation plc, Freudenberg Sealing Technologies, MANN+HUMMEL Group, Porex Corporation, Nifco Inc., GVS S.p.A., Huizhou Suyang Technology Co., Ltd., Shenzhen Milvent 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 BESS Vent Valves 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 BESS Vent Valves Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global BESS Vent Valves Market, Segmentation by Type:

Pressure Equalization Vents

Explosion Vent Valves

Dual Stage Vent Valves

Others

Global BESS Vent Valves Market, Segmentation by Opening and Resealing Mechanism:

Passive Breathing Type

Set Pressure Opening Type

Burst Opening Type

Resettable Closing Type

Others

Global BESS Vent Valves Market, Segmentation by Membrane Material:

ePTFE Membrane

Porous Polymer

Hybrid Composite

Others

Global BESS Vent Valves Market, Segmentation by Application:

Energy Storage Industry

Power and Utility Industry

Telecommunications Industry

Data Center Industry

Industrial and Commercial Facilities

Others

Companies Profiled:

W. L. Gore & Associates, Inc.

Donaldson Company, Inc.

Eaton Corporation plc

Freudenberg Sealing Technologies

MANN+HUMMEL Group

Porex Corporation

Nifco Inc.

GVS S.p.A.

Huizhou Suyang Technology Co., Ltd.

Shenzhen Milvent Technology Co., Ltd.

Shanghai PUW EPTFE Material Co., Ltd.

Shenzhen JDD Tech New Material Co., Ltd.

Key Questions Answered:

1. How big is the global BESS Vent Valves market?
2. What is the demand of the global BESS Vent Valves market?
3. What is the year over year growth of the global BESS Vent Valves market?
4. What is the production and production value of the global BESS Vent Valves market?
5. Who are the key producers in the global BESS Vent Valves market?
6. What are the growth factors driving the market demand?

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