

Global BESS Vent Valves 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 BESS Vent Valves market size was valued at US\$ 115 million in 2025 and is forecast to a readjusted size of US\$ 265 million by 2032 with a CAGR of 11.5% during review period.

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 is a detailed and comprehensive analysis for global BESS Vent Valves

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 BESS Vent Valves market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global BESS Vent Valves 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 BESS Vent Valves 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 BESS Vent Valves 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 BESS Vent Valves

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 BESS Vent Valves 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 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.

Market Segmentation

BESS Vent Valves 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

Pressure Equalization Vents

Explosion Vent Valves

Dual Stage Vent Valves

Others

Market segment by Opening and Resealing Mechanism

Passive Breathing Type

Set Pressure Opening Type

Burst Opening Type

Resettable Closing Type

Others

Market segment by Membrane Material

ePTFE Membrane

Porous Polymer

Hybrid Composite

Others

Market segment by Application

Energy Storage Industry

Power and Utility Industry

Telecommunications Industry

Data Center Industry

Industrial and Commercial Facilities

Others

Major players covered

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.

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)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe BESS Vent Valves product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of BESS Vent Valves, with price, sales quantity, revenue, and global market share of BESS Vent Valves from 2021 to 2026.

Chapter 3, the BESS Vent Valves competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the BESS Vent Valves 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 BESS Vent Valves 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 BESS Vent Valves.

Chapter 14 and 15, to describe BESS Vent Valves sales channel, distributors, customers, research findings and conclusion.

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