

Global BESS Vent Valves Market Growth 2026-2032

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Abstracts

The global BESS Vent Valves market size is predicted to grow from US\$ 110 million in 2025 to US\$ 262 million in 2032; it is expected to grow at a CAGR of 12.2% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the "BESS Vent Valves Industry Forecast" looks at past sales and reviews total world BESS Vent Valves sales in 2025, providing a comprehensive analysis by region and market sector of projected BESS Vent Valves sales for 2026 through 2032. With BESS Vent Valves sales broken down

by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world BESS Vent Valves industry.

This Insight Report provides a comprehensive analysis of the global BESS Vent Valves landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on BESS Vent Valves portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global BESS Vent Valves market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for BESS Vent Valves and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global BESS Vent Valves.

This report presents a comprehensive overview, market shares, and growth opportunities of BESS Vent Valves market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Pressure Equalization Vents

Explosion Vent Valves

Dual Stage Vent Valves

Others

Segmentation by Opening and Resealing Mechanism:

Passive Breathing Type

Set Pressure Opening Type

Burst Opening Type

Resettable Closing Type

Others

Segmentation by Membrane Material:

ePTFE Membrane

Porous Polymer

Hybrid Composite

Others

Segmentation by Application:

Energy Storage Industry

Power and Utility Industry

Telecommunications Industry

Data Center Industry

Industrial and Commercial Facilities

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global BESS Vent Valves market?

What factors are driving BESS Vent Valves market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do BESS Vent Valves market opportunities vary by end market size?

How does BESS Vent Valves break out by Type, by Application?

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