

# Global Low-Emission Breather Valve Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Low-Emission Breather Valve market size is expected to reach \$ 533 million by 2032, rising at a market growth of 7.3% CAGR during the forecast period (2026-2032).

In 2025, the global production of low-emission breather valve is estimated to be approximately 2.75 million units, with an average selling price of about \$115 per unit, a gross profit margin of approximately 50%, and a single production line capacity of about 30,000 units per year. A low-emission breather valve is a pressure and vacuum protection device specifically designed for fixed-roof storage tanks. Its core design objective, while fulfilling basic safety ventilation functions (preventing tank overpressure rupture or vacuum collapse), utilizes special sealing technology to control the vapor leakage rate of the valve in a closed, stationary state to an extremely low level, far lower than that of traditional breather valves. The upstream of low-leakage breather valves primarily consists of high-performance material suppliers, providing special metals and core sealing materials; the midstream comprises professional manufacturers with precision machining and rigorous testing capabilities, focusing on ensuring valve seat fit and sealing performance. Its downstream applications are widespread in large storage tanks in industries such as petrochemicals, chemical storage and transportation, and pharmaceuticals. The core demand stems directly from increasingly stringent global environmental regulations restricting volatile organic compound (VOC) emissions, driving companies to replace traditional breather valves with low-leakage models to comply with emission reduction regulations, reduce material volatilization losses, and improve the safety and environmental protection levels of tank farms.

The market growth of low-emission breather valve is mainly driven by three core factors:

1. The increasingly strict environmental regulations and VOCs emission reduction

requirements worldwide are the primary mandatory driving force for the market of low-leakage breathing valves; 2. The petrochemical and storage transportation industries, in order to reduce product volatile losses and improve economic benefits, actively adopt this technology to reduce 'minor breathing' losses; 3. The energy industry's transition to clean energy such as liquefied natural gas and hydrogen, has set higher standards for the sealing reliability of storage and transportation equipment, further expanding its high-end application scenarios.

This report studies the global Low-Emission Breather Valve production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Low-Emission Breather 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 Low-Emission Breather Valve that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Low-Emission Breather Valve total production and demand, 2021-2032, (K Units)

Global Low-Emission Breather Valve total production value, 2021-2032, (USD Million)

Global Low-Emission Breather Valve production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Low-Emission Breather Valve consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Low-Emission Breather Valve domestic production, consumption, key domestic manufacturers and share

Global Low-Emission Breather Valve production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Low-Emission Breather Valve production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Low-Emission Breather Valve production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Low-Emission Breather 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 ITT Engineered Valves, PROTEGO, Groth Corporation, Baker Hughes, Swagelok Allentown, Curtiss-Wright, Circor, Spirax

Sarco, NTGD breather valve, Valvitalia Group, 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 Low-Emission Breather 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 Low-Emission Breather Valve Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Low-Emission Breather Valve Market, Segmentation by Type:

Constant Pressure Breather Valve

Load-type Breather Valve

Global Low-Emission Breather Valve Market, Segmentation by Working Principle:

Mechanical Breather Valve

Pilot-operated Breather Valve

Global Low-Emission Breather Valve Market, Segmentation by Valve Shape:

Angle Type

Three-Way

Y-Type

Extended Bonnet

Global Low-Emission Breather Valve Market, Segmentation by Application:

Petrochemical Industry

Coatings Industry

Others

Companies Profiled:

ITT Engineered Valves

PROTEGO

Groth Corporation

Baker Hughes

Swagelok Allentown

Curtiss-Wright

Circor

Spirax Sarco

NTGD breather valve

Valvitalia Group

Amarama Engineers

Dresser

Berkert Fluid Control Systems

Zhejiang Petrochemical Valve Co., Ltd.

Jiangsu Zhuoze Environmental Protection Equipment Co., Ltd

Jiangsu Bafang Safety Equipment Co., Ltd

Paske Valve Industry Shanghai Co., Ltd

Shanghai Qizhong Valve Manufacturing Co., Ltd

Jiangsu Zoke Petrochemical Equipment Co., Ltd

Fushun Fengye Petrochemical Machinery Manufacturing Co., Ltd

### **Key Questions Answered:**

1. How big is the global Low-Emission Breather Valve market?
2. What is the demand of the global Low-Emission Breather Valve market?
3. What is the year over year growth of the global Low-Emission Breather Valve market?

4. What is the production and production value of the global Low-Emission Breather Valve market?
5. Who are the key producers in the global Low-Emission Breather Valve market?
6. What are the growth factors driving the market demand?

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