

Global Pilot-Operated Breather Valve Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Pilot-Operated Breather Valve market size is expected to reach \$ 136 million by 2032, rising at a market growth of 6.8% CAGR during the forecast period (2026-2032).

In 2025, the global output of pilot-operated breather valve is estimated to be approximately 320,000 units, with an average selling price of about \$260 per unit, a gross profit margin of approximately 60%, and a single production line capacity of about 6,000 units per year. A pilot-operated breather valve is a type of breather valve that uses the internal pressure of the storage tank as a power source, precisely controlling the opening and closing of the main valve disc through a pilot mechanism. Unlike traditional breather valves that directly rely on the pressure of the medium acting on the valve disc, it employs an 'indirect,' amplified control method, thereby achieving ultra-low leakage, high-precision operation, and large flow capacity. The upstream supply chain for pilot-operated breather valves includes suppliers of special metal materials (such as stainless steel and aluminum alloys) and precision components (such as diaphragms and springs); the midstream consists of specialized manufacturers with core design and precision manufacturing processes, involving precision machining, clean assembly, and rigorous testing. Its downstream applications are mainly in large-scale projects with extremely stringent safety and environmental requirements, such as strategic petroleum reserves, large petrochemical bases, and volatile organic liquid storage tanks. The demand stems from increasingly stringent environmental regulations worldwide (especially the requirement for near-zero VOC emissions) and the extremely high safety standards for large storage tanks under extreme operating conditions. By using pilot control principles to achieve ultra-low leakage and precise pressure control, it has become a key technology and solution to meet these mandatory high-end requirements.

The key driving factors for the market of pilot-operated breather valve include:

1. The rising demand for safety and precise control of large storage tanks in the global petrochemical and storage industries, which has led to the adoption of valves with higher precision and larger flow regulation capabilities;
2. The increasingly strict VOCs emissions and environmental protection regulations require more precise pressure control and oil vapor recovery during the tank breathing process. The pilot design, due to its high sealing performance and controllability, has become the preferred option;
3. The need for enterprises to reduce costs and improve efficiency as well as for preventive maintenance has highlighted the value of this valve type in reducing product volatile loss and extending equipment lifespan.

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

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

Highlights and key features of the study

Global Pilot-Operated Breather Valve total production and demand, 2021-2032, (K Units)

Global Pilot-Operated Breather Valve total production value, 2021-2032, (USD Million)

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

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

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

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

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

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

This report profiles key players in the global Pilot-Operated 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, Curtiss-Wright, Circor, Spirax Sarco, NTGD breather valve, Valvitalia Group, Jiangsu Zhuoze Environmental Protection Equipment 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 Pilot-Operated 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 Pilot-Operated Breather Valve Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Pilot-Operated Breather Valve Market, Segmentation by Type:

Internal Pilot-operated Breather Valve

External Pilot-operated Breather Valve

Global Pilot-Operated Breather Valve Market, Segmentation by Function:

Balanced Pilot Breathing Valve

Fireproof Pilot Breathing Valve

Dual Setpoint Pilot Breathing Valve

Global Pilot-Operated Breather Valve Market, Segmentation by Leakproof Material:

Soft Seated

Metal Seated

Global Pilot-Operated Breather Valve Market, Segmentation by Application:

Petrochemical Industry

Coatings Industry

Others

Companies Profiled:

ITT Engineered Valves

PROTEGO

Groth Corporation

Baker Hughes

Curtiss-Wright

Circor

Spirax Sarco

NTGD breather valve

Valvitalia Group

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

Key Questions Answered:

1. How big is the global Pilot-Operated Breather Valve market?
2. What is the demand of the global Pilot-Operated Breather Valve market?
3. What is the year over year growth of the global Pilot-Operated Breather Valve market?
4. What is the production and production value of the global Pilot-Operated Breather Valve market?
5. Who are the key producers in the global Pilot-Operated Breather Valve market?
6. What are the growth factors driving the market demand?

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