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Butterfly Valves Market Forecasts to 2032 – Global Analysis By Type (Concentric Butterfly Valves, Eccentric Butterfly Valves, High-Performance Butterfly Valves, Lined Butterfly Valves and Other Types), Material, Actuation Method, Design, Size, Function, Application and By Geography

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Abstracts

According to Stratistics MRC, the Global Butterfly Valves Market is accounted for $13.6 billion in 2025 and is expected to reach $23.7 billion by 2032 growing at a CAGR of 8.3% during the forecast period. Butterfly valve is a flow control device that regulates fluid movement through a pipeline using a rotating disc. Positioned at the center of the pipe, the disc rotates on a spindle to either allow or restrict flow, offering efficient and precise control. Butterfly valves are widely used in water treatment, oil and gas, chemical processing, and HVAC systems due to their compact design and low-pressure drop. Their lightweight construction and cost-effectiveness make them ideal for applications requiring quick shutoff and throttling capabilities.

According to the U.S. Environmental Protection Agency (EPA), smart water management systems, which often incorporate IoT-enabled valves, can reduce water loss by up to 15%.

Market Dynamics:

Driver:

Increased demand from water and wastewater treatment industries

Butterfly valves are widely used in pipelines due to their compact design, cost-efficiency, and ability to handle large volumes of fluid with low-pressure drops. Governments and municipal bodies are investing heavily in upgrading water infrastructure, particularly in emerging economies, thereby contributing to the adoption of butterfly valves. The growing population and rapid urbanization have led to a surge in demand for clean water, further emphasizing the need for advanced valve solutions in treatment plants; this demand is expected to remain strong over the forecast period.

Restraint:

Susceptibility to wear in abrasive and high-pressure applications

In systems where abrasive slurries or high-pressure media are transported, the internal components of butterfly valves are prone to erosion and wear. This reduces their operational lifespan and increases maintenance requirements, particularly in industries such as mining, chemical processing, and oil & gas. The sealing mechanisms in some models may also degrade faster under intense mechanical or thermal stress, leading to leakage issues and reduced efficiency. This limitation can deter users from adopting butterfly valves in applications requiring precision and durability.

Opportunity:

Adoption of smart valve technologies and automation

With Industry 4.0 becoming a global standard, process industries are increasingly deploying intelligent flow control systems equipped with real-time monitoring, predictive maintenance, and remote operation features. Smart butterfly valves, when combined with sensors and actuators, provide enhanced visibility into system performance and help reduce unplanned downtimes. Manufacturers are also investing in the development of digitally controlled pneumatic and electric actuators that improve the precision and responsiveness of valve operations. This evolution is particularly beneficial in water treatment, chemical, and HVAC sectors, where efficiency and automation are critical.

Threat:

Volatility in raw material prices impacting production costs

Fluctuations in the prices of key raw materials such as stainless steel, cast iron, and elastomers pose a substantial threat to butterfly valve manufacturers. These materials

account for a large portion of production costs, and unexpected price surges can impact profitability, especially for small and medium enterprises. The situation is further complicated by global supply chain disruptions and geopolitical uncertainties that restrict the availability of essential materials. These cost pressures may result in increased product prices, affecting the competitiveness of manufacturers in cost-sensitive markets.

Covid-19 Impact:

The COVID-19 pandemic had a mixed impact on the butterfly valves market, primarily influenced by sector-specific disruptions and global trade limitations. During the initial stages of the pandemic, several end-use industries, including oil & gas, manufacturing, and construction, faced project delays and shutdowns, which led to a temporary dip in demand for flow control equipment. However, the water and wastewater treatment sector, deemed essential in many regions, continued to function and even saw increased investments in hygiene and sanitation infrastructure, providing some resilience to the market.

The concentric butterfly valves segment is expected to be the largest during the forecast period

The concentric butterfly valves segment is expected to account for the largest market share during the forecast period due to their widespread application across water supply, HVAC, and general-purpose industrial systems. Their simple design, cost-effectiveness, and ability to provide tight shutoff in low#- #to medium-pressure applications make them the preferred choice in municipal and commercial installations. These valves are also easier to manufacture and maintain, further boosting their appeal for budget-conscious buyers. Industries seeking scalable and low-complexity flow control solutions often opt for concentric designs over more specialized variants.

The pneumatic segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the pneumatic segment is predicted to witness the highest growth rate driven by the increasing trend of process automation across multiple industrial verticals. These valves offer quick response times, precise control, and operational reliability, making them ideal for applications where speed and accuracy are paramount. Industries such as chemicals, food & beverage, pharmaceuticals, and power generation are rapidly integrating pneumatic systems to optimize production

efficiency. The low maintenance and robust design of pneumatic actuators also contribute to their growing popularity.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share backed by extensive infrastructure development and industrial growth in countries such as China, India, Japan, and South Korea. Government investments in water supply, wastewater treatment, and power generation projects are propelling demand for flow control systems, including butterfly valves. Moreover, the region hosts several valve manufacturing hubs and benefits from relatively low production costs, making it an attractive market for both domestic consumption and export.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR due to rapid adoption of smart valve systems and automation in industrial processes. The United States and Canada are leading adopters of digital infrastructure in sectors such as oil & gas, water treatment, and manufacturing. Increasing investments in upgrading aging infrastructure, including pipelines and water distribution networks, are fueling the need for reliable valve systems. Environmental regulations are also stricter in North America, compelling industries to upgrade to high-efficiency and low-emission flow control solutions.

Key players in the market

Some of the key players in Butterfly Valves Market include Alfa-Laval Corporate AB, ASE Engineered Solution, AVK Group, Cameron, Crane Co., Curtiss-Wright Corporation, Emerson Electric Co., Flexachem, Flowserve Corporation, Huamei Machinery Limited, KSB Group, L&T Valves Limited, NIBCO Inc., Schlumberger Limited, Valmet Corporation, Velan Inc and Weir Group.

Key Developments:

In March 2024, Valworx announced an expansion of their sanitary butterfly valve line, offering a cost-effective alternative to sanitary ball valves. The expanded line includes options for electric and pneumatic actuation, all featuring highly polished internals and FDA-approved seal materials.

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In June 2024, Flowserve Corporation announced that its Valtek® Valdisk™ high-performance butterfly valve successfully completed a rigorous one million-cycle endurance test. The valve is now licensor-approved for use in pressure swing adsorption (PSA) applications, demonstrating its reliability in high-cycle processes.

Types Covered:

- Concentric Butterfly Valves
- Eccentric Butterfly Valves
- High-Performance Butterfly Valves
- Lined Butterfly Valves
- Other Types

Materials Covered:

- Aluminum
- Cast Iron
- Ductile Iron
- Stainless Steel
- Plastics
- High-Performance Alloys

Actuation Methods Covered:

- Manual
- Electric

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Hydraulic

Pneumatic

Designs Covered:

Wafer Type

Lug Type

Flanged Type

Butt-welded Type

Other Designs

Sizes Covered:

Up to 4 inches

5 to 20 inches

Above 50 inches

Functions Covered:

On/Off Valves

Control

Isolation

Regulation

Applications Covered:

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- Chemicals & Petrochemicals
- Water & Wastewater Treatment
- HVAC Systems
- Pulp & Paper
- Food & Beverages
- Oil & Gas
- Other Applications

Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK
  - Italy
  - France
  - Spain
  - Rest of Europe

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Asia Pacific

- Japan
- China
- India
- Australia
- New Zealand
- South Korea
- Rest of Asia Pacific

South America

- Argentina
- Brazil
- Chile
- Rest of South America

Middle East & Africa

- Saudi Arabia
- UAE
- Qatar
- South Africa
- Rest of Middle East & Africa

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What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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