

# **Global Lined Valve Market Size, Share & Forecast, by Type (Ball Valve, Butterfly Valve, Globe Valve, Plug Valve, Gate Valve), by Material (Polytetrafluoroethylene (PTFE), Perfluoroalkoxy (PFA), Polychlorotrifluoroethylene (PCTFE)), and Regional Forecasts 2025–2035**

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## **Abstracts**

### Market Definition and Overview

The Global Lined Valve Market was valued at approximately USD 3.54 billion in 2024 and is anticipated to grow at a CAGR of around 4.20% during the forecast period from 2025 to 2035, reaching nearly USD 5.57 billion by 2035. Lined valves are precision-engineered flow control devices that combine the mechanical strength of metal with the superior corrosion resistance of lining materials such as PTFE, PFA, and PCTFE. These hybrid components are crucial across industries like chemicals, pharmaceuticals, and wastewater treatment, where exposure to aggressive fluids, acids, and solvents can quickly deteriorate unprotected valves. As industries intensify their focus on process reliability, equipment longevity, and operational safety, the demand for lined valves has risen steadily. Increasing environmental regulations and the need to prevent leakage of hazardous materials further amplify the global market's momentum.

### Market Drivers and Opportunities

The accelerating growth of the chemical and petrochemical sectors, coupled with the expansion of industrial wastewater treatment facilities, is propelling the demand for corrosion-resistant valve solutions. The lined valve's ability to withstand highly reactive and corrosive media has made it indispensable in fluid control applications that require

long-term performance stability and minimal maintenance. Furthermore, as industrial infrastructure modernizes and governments tighten regulations on emissions and chemical disposal, manufacturers are upgrading to lined valve systems that ensure containment integrity and process efficiency. Emerging opportunities also arise from the ongoing push toward energy efficiency and sustainable operations, where lightweight, durable, and low-friction components like PTFE-lined valves are gaining prominence. The evolution of smart valve technology, integrating sensors and digital monitoring capabilities, is expected to open new growth avenues, particularly within Industry 4.0-driven plants.

**The detailed segments and sub-segments included in the report are:**

**By Type:**

Ball Valve

Butterfly Valve

Globe Valve

Plug Valve

Gate Valve

**By Material:**

Polytetrafluoroethylene (PTFE)

Perfluoroalkoxy (PFA)

Polychlorotrifluoroethylene (PCTFE)

**By Industry:**

Chemical Processing

Water & Wastewater Treatment

Pharmaceutical

Food & Beverage

Oil & Gas

Power Generation

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Italy

Spain

Rest of Europe

Asia Pacific

China

Japan

India

South Korea

Australia

Rest of Asia Pacific

Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Segment Insights

Ball Valves Are Expected to Dominate the Market

Among the various lined valve types, ball valves are projected to dominate the market throughout the forecast period. Known for their excellent sealing performance, compact design, and operational reliability, ball valves have become a preferred choice in industries requiring frequent valve actuation and tight shutoff. Their ability to handle high-pressure and high-corrosion environments has made them particularly valuable in

chemical and petrochemical applications. Additionally, advancements in PTFE and PFA lining materials have enhanced their lifespan, thermal stability, and resistance to chemical degradation. As industries continue to prioritize zero-leakage systems and automation-ready components, lined ball valves are expected to remain at the forefront of demand, offering both durability and operational efficiency.

### PTFE Material Leads in Revenue Contribution

In terms of material composition, PTFE-lined valves currently account for the largest revenue share of the global market. PTFE's exceptional resistance to a wide range of corrosive substances, combined with its excellent thermal and non-stick properties, has solidified its position as the material of choice in demanding applications. Its versatility and cost-effectiveness have also contributed to its dominance across multiple end-use sectors. While PFA and PCTFE variants are gaining attention due to their enhanced mechanical strength and improved performance at elevated temperatures, PTFE continues to lead due to its balance of affordability, reliability, and adaptability. With the chemical industry's unrelenting demand for robust corrosion protection, PTFE-lined valves will continue to drive substantial market revenues through 2035.

### Regional Insights

The key regions evaluated for the Global Lined Valve Market include North America, Europe, Asia Pacific, Latin America, and the Middle East & Africa. North America is expected to command a substantial share in 2025, primarily driven by strong investments in chemical processing, wastewater treatment, and industrial maintenance. The U.S. continues to lead due to its well-established infrastructure, advanced manufacturing base, and emphasis on environmental safety standards. Meanwhile, the Asia Pacific region is poised to witness the fastest growth through 2035, supported by rapid industrialization, large-scale infrastructure projects, and rising chemical production in countries like China, India, and Japan. Europe maintains a significant presence, propelled by stringent regulatory frameworks and the modernization of industrial facilities. Increasing adoption of lined valves in emerging markets such as Brazil, the UAE, and Saudi Arabia further reinforces global market expansion.

Major market players included in this report are:

Emerson Electric Co.

Flowserve Corporation

Crane Co.

KSB SE & Co. KGaA

SAMSON AG

SchuF Fetterolf GmbH

Aegis Valves

Bray International, Inc.

Val-Matic Valve & Manufacturing Corp.

Richter Chemie-Technik GmbH

Xomox Corporation

ChemValve-Schmid AG

Durco Valves

ITT Inc.

CRANE ChemPharma & Energy

#### Global Lined Valve Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025-2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent to up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

#### Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional-level analysis for each market segment.

Detailed analysis of the geographical landscape with country-level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of the competitive structure of the market.

Demand side and supply side analysis of the market.

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