

Global Cryogenic Control Valve Market Size Study & Forecast, by Product Type (Ball Valve, Gate Valve) and End Use (Oil & Gas, Chemical) and Regional Forecasts 2025-2035

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Abstracts

The Global Cryogenic Control Valve Market is valued at approximately USD 3.63 billion in 2024 and is expected to grow at a healthy CAGR of 6.9% over the forecast period 2025–2035, with historical data anchored in 2023 and 2024 and 2024 serving as the base year for estimation. Cryogenic control valves are highly engineered flow-control components designed to operate under extremely low temperatures, typically below -150°C , where conventional valves fail to perform reliably. These valves play a mission-critical role in managing liquefied gases such as LNG, liquid nitrogen, liquid oxygen, and liquid hydrogen, ensuring operational safety, pressure stability, and precise flow regulation. As global industries increasingly lean into low-temperature processing and storage, cryogenic control valves have moved from being niche components to essential infrastructure elements across multiple sectors.

Market expansion is being driven by the rapid scale-up of LNG infrastructure, rising adoption of industrial gases, and the accelerating transition toward cleaner energy systems that rely heavily on cryogenic applications. Oil & gas operators are ramping up investments in liquefaction plants, storage terminals, and transport networks, all of which depend on robust cryogenic valve systems. Simultaneously, sectors such as chemicals, food & beverages, and medical gases are stepping up demand as they scale production capacities and modernize processing facilities. While the market continues to benefit from technological advancements in valve materials, sealing mechanisms, and extended bonnet designs, challenges such as high manufacturing costs and stringent safety certifications continue to shape purchasing decisions throughout the forecast period of 2025–2035.

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

Ball Valve

Check Valve

Gate Valve

Globe Valve

Others

By End Use:

Oil & Gas

Chemical

Food & Beverages

Medical

Others

From a product type standpoint, ball valves are expected to dominate the Global Cryogenic Control Valve Market over the forecast horizon. Their ability to deliver tight shut-off performance, minimal pressure drop, and reliable operation under extreme temperature conditions has positioned them as the preferred choice across LNG and industrial gas applications. Gate and globe valves continue to hold strategic importance in throttling and isolation functions, particularly in large-scale processing plants. While check valves serve essential safety roles by preventing backflow, ongoing innovations in valve design are gradually expanding their applicability across a broader range of cryogenic systems.

In terms of revenue leadership, the oil & gas end-use segment currently accounts for the largest share of the market. This dominance is underwritten by the global expansion of LNG production, storage, and export infrastructure, where cryogenic control valves are indispensable for maintaining operational integrity. Chemical processing follows closely, supported by the growing use of liquefied gases in synthesis and refining processes. Meanwhile, food & beverages and medical applications are emerging as high-potential segments, driven by increased demand for cryogenic freezing, preservation, and medical gas distribution systems that require precision-engineered valve solutions.

The regional analysis of the Global Cryogenic Control Valve Market spans Asia Pacific, North America, Europe, Latin America, and the Middle East & Africa. North America commands a leading market share, supported by its mature LNG ecosystem, advanced industrial gas infrastructure, and strong presence of global valve manufacturers. Europe remains a key contributor, propelled by energy transition initiatives, hydrogen projects, and stringent safety standards. Asia Pacific is expected to register the fastest growth during the forecast period, fueled by rising energy demand, expanding LNG import capacity, and large-scale industrialization across countries such as China, Japan, and India. Latin America and the Middle East & Africa are gradually gaining momentum as investments in energy infrastructure and industrial processing facilities continue to scale up.

Major market players included in this report are:

Emerson Electric Co.

Flowserve Corporation

IMI plc

Parker Hannifin Corporation

Baker Hughes Company

Crane Co.

KITZ Corporation

Velan Inc.

Schlumberger Limited

L&T Valves Limited

Burkert Fluid Control Systems

Neway Valve Group

HEROSE GmbH

AVK Holding A/S

Metso Corporation

Global Cryogenic Control 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 and countries in recent years and to forecast their values for the coming years. The report is structured to incorporate both qualitative insights and quantitative analysis, delivering a balanced view of industry performance across the regions covered. It further highlights

key growth drivers, operational challenges, and emerging opportunities within micro-markets, while offering a detailed evaluation of the competitive landscape, strategic positioning, and product portfolios of leading players shaping the future of the Global Cryogenic Control Valve Market.

Key Takeaways:

Market estimates and forecasts for a 10-year period from 2025 to 2035.

Annualized revenue analysis at global and regional levels for each segment.

In-depth geographical assessment with country-level insights.

Competitive landscape analysis featuring major market participants.

Strategic recommendations to support future market entry and expansion.

Comprehensive demand-side and supply-side evaluation of the market.

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