

Data Center Liquid Cooling Valves Market by Valve Type (Ball Valves, Control Valves, Butterfly Valves, Check Valves, Pressure-Relief Valves), Cooling Type (Immersion, Direct to Chip), Data Center Type (Hyperscale, Colocation, Enterprise), and Region - Global Forecast to 2032

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Abstracts

The data center liquid cooling valves market is projected to grow from USD 0.27 billion in 2025 to USD 1.80 billion by 2032, at a CAGR of 30.8% during the forecast period. The market is expanding primarily due to the rapid increase in heat density in modern server environments, which require advanced liquid-cooling systems with precise control to meet cooling needs. The need for consistent coolant flow and stable temperature control has created strong demand for valves that enable accurate liquid distribution control throughout cooling systems as computing facilities become smaller and more powerful. The main factor driving the market forward is that organizations increasingly adopt closed-loop liquid cooling systems that use valves to manage coolant flow, protecting equipment during maintenance tasks and maintaining continuous device functionality. Advanced valve technologies enable data center operators to achieve operational efficiency by automating control processes, reducing overheating risks, and enhancing thermal management capabilities. The need for efficient cooling networks that can be expanded and adapted has led to increased usage of specialized liquid cooling valves in data center operations throughout the world.

“By valve type, the butterfly valves segment is estimated to hold the largest share, in terms of value, during the forecast period.”

The butterfly valve segment is anticipated to experience consistent growth during the

forecast period, supported by the increasing need for efficient fluid control in modern data center cooling systems. These valves are commonly deployed in facility water networks and cooling plant pipelines where large volumes of chilled water must be regulated. Their ability to provide reliable flow isolation while maintaining a compact and lightweight design makes them suitable for large-scale cooling infrastructures. Moreover, butterfly valves offer quick operation and efficient flow handling, which enhances the overall performance of cooling systems. The growing construction of hyperscale and edge data centers is further increasing the installation of large chilled-water networks where these valves are widely utilized. As a result, the demand for butterfly valves is expected to rise steadily as data center cooling infrastructure continues to expand globally.

“By cooling type, the direct-to-chip cooling segment is estimated to hold the largest share, in terms of value, during the forecast period.”

The direct-to-chip cooling segment is estimated to account for the largest market share throughout the forecast period as it has become the standard cooling method for high-density server environments that need precise heat removal and efficient cooling systems. This cooling approach uses liquid to flow directly from its source to processors and all components that produce heat, which demands dependable valve systems for managing coolant movement, pressure control, and maintaining appropriate temperature control. Advanced computing infrastructure now requires dedicated liquid cooling loops, which need valves for isolating fluid flows, managing systems, and protecting safety. The market demand for valves that enable stable and efficient coolant distribution has increased because large-scale data centers expand and rack-level liquid cooling systems get integrated into existing operations.

“By data center type, the hyperscale data center segment is estimated to hold the largest share, in terms of value, during the forecast period.”

The hyperscale data center segment is expected to hold the largest market share during the forecast period due to the rapid expansion of cloud computing, artificial intelligence, and large-scale digital services. Major technology companies are continuously investing in hyperscale facilities to support massive data processing and storage requirements. These data centers operate with extremely high IT loads and rack densities, which significantly increases the demand for advanced cooling infrastructure. As a result, hyperscale facilities require large-scale deployment of liquid cooling technologies to maintain efficient thermal management. Additionally, hyperscale operators typically build multiple large campuses across different regions, further increasing infrastructure

investments.

Profile break-up of primary participants for the report:

By Company Type: Tier 1 – 65%, Tier 2 – 20%, and Tier 3 – 15%

By Designation: C-Level Executives– 25%, Directors– 30%, and Others – 45%

By Region: North America – 30%, Asia Pacific – 40%, Europe – 20%, Middle East & Africa – 7%, and South America – 3%

Belimo U.S. Inc. (US), Danfoss (Denmark), Siemens (Germany), Schneider Electric (Germany), and Emerson Electric Co. (US) are the key players in the data center liquid cooling valves market. These players have adopted various strategies, including agreements, joint ventures, and expansions, to increase their market share and business revenue.

Research Coverage:

The report defines segments and projects the size of the data center liquid cooling valves market based on valve type, cooling type, and region. It strategically profiles the key players and comprehensively analyzes their market share and core competencies. It also tracks and analyzes competitive developments, such as expansions, agreements, and acquisitions, undertaken by them in the market.

Reasons to Buy the Report:

The report is expected to help the market leaders/new entrants by providing them with the closest approximations of revenue numbers of the data center liquid cooling valves market and its segments. This report is also expected to help stakeholders gain a deeper understanding of the market's competitive landscape, acquire valuable insights to enhance their business positions, and develop effective go-to-market strategies. It also enables stakeholders to understand the market's pulse and provides information on key market drivers, restraints, challenges, and opportunities.

The report provides insights into the following pointers:

Analysis of critical drivers (Growth in data center market, Increase in server rack

density), restraints (High upfront capital costs and infrastructure complexity, Lack of standardization and interoperability), opportunities (Emerging cooling technologies and coolants, Smart and programmable valve solutions, Retrofit and hybrid cooling deployments in existing data centers, Sustainability driven innovations in data center cooling infrastructure), and challenges (Reliability and leak sensitivity in mission critical environments, Regulatory and environmental hurdles) influencing the growth of the data center liquid cooling valves market

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities in the data center liquid cooling valves market

Market Development: Comprehensive information about lucrative markets – the report analyzes the data center liquid cooling valves market across varied regions

Market Diversification: Exhaustive information about new products, various types, untapped geographies, recent developments, and investments in the data center liquid cooling valves market

Competitive Assessment: In-depth assessment of market shares, growth strategies, and product offerings of leading players, such as Belimo U.S. Inc. (US), Danfoss (Denmark), Siemens (Germany), Schneider Electric (Germany), Emerson Electric Co. (US), and others

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