

# Global Data Center Cooling Valves Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Data Center Cooling Valves market size is expected to reach \$ 2434 million by 2032, rising at a market growth of 17.1% CAGR during the forecast period (2026-2032).

In 2025, global Data Center Cooling Valves production capacity is 4.0 million units, with production reached approximately 3.21 million units, with an average global market price of around US\$ 220 per unit. The market gross margin is mainly 30%-40%.

Data center cooling valves are critical components used in data center cooling systems to regulate, control, and isolate the flow, pressure, and temperature of cooling media such as chilled water, glycol mixtures, or dielectric fluids. Key product types include control valves, balancing valves, isolation valves, check valves, safety valves, and solenoid valves. These valves are widely deployed across plant-side systems (chillers and cooling towers), distribution piping networks, terminal units (CRAH/CRAC/CDU), and rack-level liquid cooling systems. With the rapid increase in AI server power density and the adoption of liquid cooling technologies, cooling valves are evolving from traditional HVAC components toward high-precision, intelligent, and leak-free solutions, playing a critical role in ensuring system efficiency and operational reliability.

The upstream of the data center cooling valve industry consists of suppliers of raw materials such as brass, stainless steel, and cast iron, as well as manufacturers of sealing components, actuators, sensors, and electronic control modules. The midstream is dominated by valve manufacturers, including traditional HVAC-focused players (e.g., Danfoss, Belimo, Honeywell) and industrial valve companies (e.g., Emerson, Flowserve). These manufacturers differentiate through precision machining, system integration, and intelligent control technologies. The downstream includes data center

ecosystem participants such as design institutes, EPC contractors, system integrators, and hyperscale cloud operators. With the rise of AI-driven data centers and liquid cooling adoption, the value chain is shifting from conventional HVAC systems toward integrated ?liquid cooling + intelligent control? solutions, driving higher requirements for materials, sealing performance, and system reliability.

The data center cooling valve market is expected to experience sustained growth, driven by the global expansion of data center infrastructure and the rapid surge in AI computing demand. On one hand, traditional air-cooled data centers are upgrading toward higher-efficiency cooling solutions, increasing demand for pressure-independent control valves (PICVs) and intelligent control valves. On the other hand, the rapid adoption of liquid cooling technologies?such as direct-to-chip and immersion cooling?is significantly boosting demand for high-integrity sealing valves, quick disconnect couplings (QDCs), and miniature precision valves. The rising power density of AI servers is increasing cooling requirements per rack, thereby driving both the volume and complexity of valve deployment. In parallel, stricter requirements for PUE optimization and carbon reduction are accelerating the adoption of energy-efficient valve solutions. Looking ahead, the increasing penetration of liquid cooling, the adoption of modular data centers, and the integration of intelligent operation systems will drive strong growth in smart valves with sensing, control, and data feedback capabilities, pushing the industry toward higher-end, system-level, and intelligent solutions.

This report studies the global Data Center Cooling Valves production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Data Center Cooling Valves 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 Data Center Cooling Valves that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Data Center Cooling Valves total production and demand, 2021-2032, (K Units)

Global Data Center Cooling Valves total production value, 2021-2032, (USD Million)

Global Data Center Cooling Valves production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Data Center Cooling Valves consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Data Center Cooling Valves domestic production, consumption, key

domestic manufacturers and share

Global Data Center Cooling Valves production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Data Center Cooling Valves production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Data Center Cooling Valves production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Data Center Cooling Valves 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 Belimo, Honeywell, Danfoss, Siemens, Emerson, IMI Hydronic Engineering, Watts Industries, Johnson Controls, Schneider Electric, Parker Hannifin, 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 Data Center Cooling Valves 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 Data Center Cooling Valves Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Data Center Cooling Valves Market, Segmentation by Type:

Ball Valve

Globe Valve

Butterfly Valve

Balance Valve

Others

#### Global Data Center Cooling Valves Market, Segmentation by Control Type:

Electric Actuated Valve

Pneumatic Valve

Self-actuated Valve

Others

#### Global Data Center Cooling Valves Market, Segmentation by Level of Intelligence:

Traditional valves

Intelligent valves

## Global Data Center Cooling Valves Market, Segmentation by Application:

Enterprise Data Center

Communication Data Center

AI Data Center

## Companies Profiled:

Belimo

Honeywell

Danfoss

Siemens

Emerson

IMI Hydronic Engineering

Watts Industries

Johnson Controls

Schneider Electric

Parker Hannifin

Armstrong Fluid Technology

Oventrop

Victaulic

Crane Fluid Systems

Bray International, Inc.

Taco Comfort Solutions

Qingdao Weflo Valve

**Key Questions Answered:**

1. How big is the global Data Center Cooling Valves market?
2. What is the demand of the global Data Center Cooling Valves market?
3. What is the year over year growth of the global Data Center Cooling Valves market?
4. What is the production and production value of the global Data Center Cooling Valves market?
5. Who are the key producers in the global Data Center Cooling Valves market?
6. What are the growth factors driving the market demand?

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