

# Global Hydronic Balancing Valves for Data Center Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Hydronic Balancing Valves for Data Center market size was valued at US\$ 83.37 million in 2025 and is forecast to a readjusted size of US\$ 258 million by 2032 with a CAGR of 15.5% during review period.

In 2025, global Hydronic Balancing Valves for Data Center production reached approximately 536,000 units with average price of 151 USD/Unit.

Hydronic balancing valves for data centers are flow-regulating and hydraulic-control devices installed in chilled-water, condenser-water and liquid-cooling circuits. They maintain the required design flow across individual branches, cooling units and thermal zones, preventing excessive flow in hydraulically favored circuits, insufficient flow in remote circuits and unstable differential pressure. The product category includes manual balancing valves, automatic flow-limiting valves, differential-pressure control valves, pressure-independent balancing and control valves, and electronic smart valves integrating flow measurement, temperature sensing, thermal-energy monitoring and digital communication. Typical installation points include chiller plants, main supply and return headers, CRAH units, in-row cooling equipment, rear-door heat exchangers, coolant distribution units and direct-liquid-cooling loops. Compared with conventional commercial HVAC applications, data-center products place greater emphasis on continuous operating reliability, low leakage, rapid response, stable partial-load performance and integration with building or data-center infrastructure management systems.

Upstream participants supply valve-body materials such as brass, ductile iron, stainless

steel and engineering plastics, together with valve trims, springs, diaphragms, seals, flow sensors, temperature sensors, electric actuators, control chips and communication modules. Midstream manufacturers undertake hydraulic design, precision machining, assembly, flow calibration, pressure testing, control-algorithm development and valve-actuator integration. They may also provide prefabricated valve trains, energy valves and packaged components for coolant distribution units. Downstream participants include chiller and precision-cooling equipment manufacturers, CDU and liquid-cooling system integrators, mechanical and electrical contractors, HVAC engineering consultants and valve distributors. End users include hyperscale cloud facilities, colocation centers, enterprise data centers, edge facilities, and AI or high-performance computing centers. Products are generally specified during system design and subsequently pass through OEM integration, project installation, hydronic commissioning, acceptance testing and lifecycle maintenance. Global service coverage, commissioning expertise and compatibility with digital management platforms represent important competitive barriers.

The market for data-center hydronic balancing valves will be supported by the expansion of AI computing capacity, increasing rack power density, wider liquid-cooling adoption, refurbishment of existing facilities and stronger efficiency requirements. High-density computing is driving cooling architecture from predominantly room-level air cooling toward hybrid air-liquid systems, direct-to-chip cold plates and rack-level water cooling. As a result, valve applications are expanding from conventional chiller plants and terminal cooling units to CDUs, rack branches and server-level cooling loops.

Pressure-independent balancing and control valves, electronic flow-control valves and intelligent energy valves are expected to grow faster than conventional manual balancing products. Data-center thermal loads vary rapidly, facilities are frequently expanded in phases, and operators increasingly require continuous measurement of flow, temperature differential, cooling capacity and equipment status. Products offering digital communication, remote setting, diagnostics, energy metering and connection with data-center management platforms are therefore likely to achieve higher project penetration and unit value. Prefabricated and modular valve trains will also benefit from demand for faster deployment, standardized installation and reduced on-site commissioning time.

AI and high-performance computing facilities represent the application segment with the strongest growth potential, while hyperscale and colocation data centers provide the largest underlying demand base. Competition is shifting from individual valve performance toward complete hydronic-control solutions, integrated sensors and

actuators, software connectivity and lifecycle services. Market development may nevertheless be constrained by fluctuations in data-center construction cycles, the absence of a fully standardized liquid-cooling architecture, coolant-material compatibility requirements, leakage concerns and exceptionally strict reliability expectations. Suppliers with proven data-center references, international certifications, local technical support and comprehensive smart-valve portfolios are consequently expected to hold stronger competitive positions.

## Report Scope

This report is a detailed and comprehensive analysis for global Hydronic Balancing Valves for Data Center market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

## Key Features:

Global Hydronic Balancing Valves for Data Center market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Hydronic Balancing Valves for Data Center market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Hydronic Balancing Valves for Data Center market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Hydronic Balancing Valves for Data Center market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

## The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Hydronic Balancing Valves for Data Center

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Hydronic Balancing Valves for Data Center market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Belimo, IMI Hydronic Engineering / IMI Climate Control, Siemens, Danfoss, Schneider Electric, FlowCon International, Oventrop, Vexve / Frese, Johnson Controls, Honeywell, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## Market Segmentation

Hydronic Balancing Valves for Data Center market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Static Balancing Valve

Dynamic Balancing Valve

PICV

### Market segment by Function

Basic Electronic Balancing Valves

Communicating Balancing Valves

IoT-Enabled Smart Balancing Valves

#### Market segment by Location

Terminal Unit Balancing Valves

Branch Balancing Valves

Riser Balancing Valves

Plant Room and Main Loop Balancing Valves

Others

#### Market segment by Application

Hyperscale and Cloud Data Centers

Colocation Data Centers

Enterprise Data Centers

Edge and Modular Data Centers

High-Performance Computing and AI Data Centers

Others

#### Major players covered

Belimo

IMI Hydronic Engineering / IMI Climate Control

Siemens

Danfoss

Schneider Electric

FlowCon International

Oventrop

Vexve / Frese

Johnson Controls

Honeywell

SAUTER

Xylem / Bell & Gossett

Nexus Valve

Armstrong Fluid Technology

KSB

Giacomini

HERZ Armaturen

Azbil Corporation

Zhejiang Dun'an Artificial Environment Co., Ltd.

Shanghai Karon Eco-Valve Manufacturing Co., Ltd.

Taidel IoT (Liaoning) Co., Ltd.

Sinro Air-conditioning Group Co., Ltd.

WOFK (Shanghai) Valve Co., Ltd.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

## Chapter Outline

Chapter 1, to describe Hydronic Balancing Valves for Data Center product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Hydronic Balancing Valves for Data Center, with price, sales quantity, revenue, and global market share of Hydronic Balancing Valves for Data Center from 2021 to 2026.

Chapter 3, the Hydronic Balancing Valves for Data Center competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Hydronic Balancing Valves for Data Center breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales

quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Hydronic Balancing Valves for Data Center market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Hydronic Balancing Valves for Data Center.

Chapter 14 and 15, to describe Hydronic Balancing Valves for Data Center sales channel, distributors, customers, research findings and conclusion.

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