

# **Hydronic Balancing Valves Market Size and Forecast (2021 - 2031), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Type (Static Balancing Valves, Fixed-Orifice Balancing Valves, Automatic Balancing Valves, and Pressure-Independent Flow Control Valves), Connection Type (Flanged, Threaded, and Others), Size (Less than 5, 6-10, 11-20, and Above 20), Application (Residential, Commercial, and Industrial), and Geography**

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## **Abstracts**

According to our latest market study on "Hydronic Balancing Valves Market Forecast to 2031 –Global Analysis – by Type Connection Type, Size and Application," the hydronic balancing valves market size is expected to grow from US\$ 1268.54 million in 2023 to US\$ 2072.27 million by 2031. It is expected to fuel at a CAGR of 6.33% from 2023 to 2031.

The adoption of lead-free components for fabricating hydronic balancing valves for use in commercial and public infrastructure is rising and is anticipated to become more prominent in the coming years. The growing government initiatives and policies are projected to support the integration of sustainable environment friendly components into public infrastructure. For instance, several upcoming infrastructure projects in India such as the Narmada Valley Development Project, Bharatmala Pariyojana, Chenab River Railway Bridge, Mumbai Trans Harbour Link, Delhi Metro Industrial Corridor, Inland WaterWays Development Project Zoji-la and Z-Morh Tunnel Project, and Navi Mumbai International Project are projected to be built using environment-friendly components. Similarly, the Hudson Yards Concrete Casing project and Brent Spence Bridge Corridor

Project in the US and Nordlicht I, an offshore wind farm, the Fehmarn Belt tunnel, and Regensburg Quarter in Germany are expected to be developed using sustainable materials. Companies like ACS Valves, and Valmet are focusing on developing valves from recycled products. Thus, the increasing proliferation and usage of sustainable components as a viable alternative to conventional hydronic balancing valves in the commercial and public infrastructure sector is anticipated to fuel the market growth in the coming years.

The hydronic balancing valves market is segmented into North America, Europe, Asia Pacific, the Middle East & Africa, and South America. The growing demand for energy-efficient solutions and increasing application of hydronic balancing valves in the industrial sector are acting as major factors driving the market globally. In the oil & gas industry, hydronic balancing valves primarily help in regulating and balancing liquid flow. These valves help ensure that each heating or cooling circuit receives the appropriate amount of liquid flow, allowing optimal performance and energy efficiency. With the rapid rise in industrialization, the demand for hydronic balancing valves has grown substantially across the globe.

Asia Pacific, Europe, and North America are major contributors to the hydronic balancing valves market growth. Rapid industrialization is a key factor influencing the growth of the hydronic balancing valves market across Asia Pacific. The growing implementation of energy efficiency standards for public buildings is boosting the demand for HVAC systems in various industrial and commercial sectors. Furthermore, various initiatives by state and local governments are promoting energy efficiency programs and policies for public facilities, equipment usage, and government operations, which is boosting the application of HVAC systems. The growing application of HVAC systems is acting as a major driver for the hydronic balancing valves market across Europe.

Based on type, the market is hydronic balancing valves segmented into static balancing valves, automatic balancing valves, fixed-orifice balancing valves, pressure-independent flow control valves. The static balancing valves segment held the largest share in the hydronic balancing valves market in 2023 accounting for 35.6%.

By size, the global hydronic balancing valves market is categorized into less than 5", 6"–10", 11"–20", and above 20". Rising industrialization across the globe is anticipated to boost the demand for heating, ventilation, and air conditioning (HVAC) systems, which is projected to boost the requirement for hydronic balancing valves. In addition, rapid investment toward the development of oil and gas infrastructure and upgradation

of aged infrastructure in developed regions such as North America and Europe is anticipated to fuel the hydronic balancing valves market growth in the coming years. The fluid flow balance in a hydronic system is an important component in the commissioning of heating, ventilation, and air conditioning (HVAC). The commonly used balancing valves in large commercial and industrial applications include the balancing valves with a size range between 11” and 20”, and manual hydronic balancing valves of this size are largely used in industrial applications. These industrial applications include HVAC systems, industrial processing, radiators, hydronic heating systems, and heat exchangers, among others.

The global hydronic balancing valves market is segmented on the basis of type, connection type, size, application and geography. Based on type, the hydronic balancing valves market is segmented into less than static balancing valves, fixed orifice balancing valves, automatic balancing valves, and pressure-independent flow control valves. In terms of connection type, the hydronic balancing valves market analysis is segmented into flanged, threaded, and others. In terms of geography, the global hydronic balancing valves market is segmented into five major regions: North America, Europe, Asia Pacific (APAC), the Middle East & Africa (MEA), and South America (SAM).

Danfoss AG; Hays Fluid Controls; Victaulic Company; Red-White Valve Corp.; Oventrop Corporation; Caleffi SpA Siemens; Frese Group; Johnson Controls, Inc.; American Wheatly; and Xylem are influencing the hydronic balancing valves market evolution globally.

The hydronic balancing valves market forecast has been derived considering both primary and secondary sources hydronic balancing valves. Thorough secondary research has been conducted using internal and external sources to obtain quantitative and qualitative information related to the hydronic balancing valves market size. The process also helps obtain an overview and hydronic balancing valves market forecast with respect to all the market segments. Also, multiple primary interviews have been conducted with industry participants to validate the data and gain analytical insights. This process includes industry experts such as VPs, business development managers, market intelligence managers, and national sales managers, along with external consultants such as valuation experts, research analysts, and key opinion leaders, specializing in the hydronic balancing valves market. In addition, several other essential hydronic balancing valves market players were also analyzed to get a holistic view of the global hydronic balancing valves market and its network.

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## 15. APPENDIX

### 15.1 About The Insight Partners



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