

Global Electronic and Smart Balancing Valves 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 Electronic and Smart Balancing Valves market size was valued at US\$ 284 million in 2025 and is forecast to a readjusted size of US\$ 511 million by 2032 with a CAGR of 8.7% during review period.

In 2025, global Electronic and Smart Balancing Valves production reached approximately 1.08 million units with average price of 255 USD/Unit.

Electronic and smart balancing valves are flow-regulation and hydronic-balancing devices used in heating, ventilation, air-conditioning, district energy, and building water systems. These products combine electronic actuators with flow, temperature, or differential-pressure sensors and embedded control algorithms to continuously adjust valve position and maintain the required flow rate when system pressure conditions change. Entry-level products typically consist of pressure-independent control valves equipped with electronic actuators and controlled through on/off, floating, or analog signals. More advanced smart valves integrate real-time flow measurement, supply and return temperature monitoring, thermal-energy calculation, digital communication, data logging, fault diagnostics, and remote commissioning. Compared with conventional manual balancing valves, electronic and smart balancing valves provide dynamic balancing, automated commissioning, and continuous system optimization. They help prevent excessive or insufficient flow, improve temperature distribution across terminal units, reduce pumping energy consumption, and enhance the operating efficiency of chillers, boilers, heat exchangers, and other hydronic equipment.

The upstream segment of the electronic and smart balancing valve industry includes

valve-body castings, copper alloys, stainless steel, engineering plastics, sealing materials, and connection components, together with electronic actuators, motors, gear mechanisms, flow and temperature sensors, control chips, and communication modules. Midstream manufacturers are responsible for valve design, precision machining, actuator integration, sensor calibration, control-algorithm development, software-platform construction, testing, and final assembly. Competitive differentiation is increasingly shifting from conventional valve-manufacturing capability toward mechatronic integration, measurement accuracy, communication compatibility, cybersecurity, and digital service capability. Downstream demand comes primarily from commercial buildings, data centers, hospitals, hotels, airports, industrial facilities, district heating and cooling networks, and public infrastructure projects. Products are generally supplied through heating, ventilation, and air-conditioning equipment manufacturers, building-automation providers, engineering contractors, system integrators, distributors, and specialist valve-service companies. They are commonly integrated with fan-coil units, air-handling units, heat exchangers, chillers, boilers, pumps, energy meters, and building-management systems.

The electronic and smart balancing valve market has favorable medium- to long-term growth prospects, supported by building-energy regulations, renovation of existing properties, digital building management, and increasingly precise control of energy-intensive facilities. Conventional hydronic systems frequently suffer from uneven flow distribution, labor-intensive commissioning, limited operational visibility, and excessive pump energy consumption. These limitations are encouraging building owners and engineering contractors to adopt valves capable of real-time measurement and automatic adjustment. Data centers, hospitals, laboratories, airports, and premium commercial buildings are expected to become major growth areas because they require stable temperature control, energy transparency, and remote maintenance. District heating, district cooling, and domestic hot-water circulation systems will also create additional demand for automatic hydronic balancing and thermal-energy monitoring. Future competition is likely to shift from standalone valve performance toward integrated capabilities in sensing, control, communication, analytics, and software platforms. Products offering digital connectivity, remote commissioning, predictive fault alerts, energy analysis, and continuous system optimization are expected to outperform basic electronically actuated valves, which will face stronger price competition and increasing product standardization.

Report Scope

This report is a detailed and comprehensive analysis for global Electronic and Smart

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

Global Electronic and Smart Balancing Valves 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 Electronic and Smart Balancing Valves 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 Electronic and Smart Balancing Valves 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 Electronic and Smart Balancing Valves

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 Electronic and Smart Balancing Valves 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, Siemens, Danfoss, Schneider Electric, FlowCon International, Oventrop GmbH & Co. KG, Frese A/S, Johnson Controls, Honeywell International, etc.

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

Market Segmentation

Electronic and Smart Balancing Valves 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

District Energy Network Balancing Valves

Market segment by Application

Commercial Buildings

Residential Buildings

Industrial Facilities

Healthcare and Public Buildings

District Heating and Cooling

Data Centers

Others

Major players covered

Belimo

IMI Hydronic Engineering

Siemens

Danfoss

Schneider Electric

FlowCon International

Oventrop GmbH & Co. KG

Frese A/S

Johnson Controls

Honeywell International

SAUTER

Xylem / Bell & Gossett

Aalberts Hydronic Flow Control

KSB

GF Piping Systems

Giacomini

HERZ Armaturen

Taconova

Zhejiang Dunan Environment Co., Ltd.

Runa Intelligent Equipment Co., Ltd.

Maituo Meter Co., Ltd.

Zhejiang Linuo Flow Control Technology Co., Ltd.

Shandong Naiweike Automatic Control Technology 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 Electronic and Smart Balancing Valves product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Electronic and Smart Balancing Valves 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 Electronic and Smart Balancing Valves 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 Electronic and Smart Balancing Valves.

Chapter 14 and 15, to describe Electronic and Smart Balancing Valves sales channel, distributors, customers, research findings and conclusion.

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