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Global IoT-enabled Valve-Controlled Water Meter Market Research Report 2026(Status and Outlook)

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Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on IoT-enabled Valve-Controlled Water Meter competitive dynamics, regional economic interdependencies, and supply chain reconfigurations.In 2024, global IoT-enabled Valve-Controlled Water Meter production reached approximately 20.1 million units, with an average global market price of around US$ 33 per unit. The IoT-enabled Valve-Controlled Water Meter represents the ultimate form of the next-generation smart water meter. It deeply integrates water measurement, remote data transmission, electric valve control, and advanced data analytics functions, primarily based on low-power wide-area network technologies like Cellular IoT (e.g., NB-IoT, LTE-Cat.1/4G). Its core innovation lies in using a built-in IoT communication module to establish a stable, secure, and bidirectional data link directly with the cloud platform. This enables not only near-real-time water consumption reading and remote valve operation but also supports advanced management features like Over-the-Air firmware upgrades, network status self-diagnosis, and battery level monitoring. Integrated with big data platforms, it can accurately identify usage patterns, provide early warnings for leakage, and execute complex billing strategies such as prepayment or tiered pricing, fundamentally reshaping the interaction between water utilities and consumers, and serving as core infrastructure for achieving digital and proactive water services. The gross profit margin of IoT-enabled Valve-Controlled Water Meter is about 25% -35%. The single line production capacity is about 60000 to 90000 units. The core cost of IoT-enabled Valve-Controlled Water Meter lies in their electronic components. The main costs of IoT communication modules (NB IoT/Cat.1), microcontrollers (MCU), and sensors (optoelectronics or ultrasound) account for approximately 50% -60%; The motor valve actuator and high-capacity lithium battery are the key to ensuring the reliability and long-term life of valve control, accounting for about 20% -25%; Structural

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components (shell, valve body, measuring base) account for approximately 15% -20%; The costs of research and development, production, calibration, and certification are shared among the remaining portion. Its cost optimization heavily relies on supply chain management and large-scale procurement. In terms of upstream, this industry is a major consumer of NB IoT/Cat.1 communication modules, MCU chips, lithium batteries, and precision injection molded parts, and its procurement volume directly reflects the prosperity of the IoT terminal market. The downstream consumption is dominated by the large-scale centralized procurement of water companies in various countries, with China, Europe, and Southeast Asia being the main markets at present. The procurement behavior of downstream customers (water companies) has shifted from "trial" to "essential needs", and their decisions are mainly driven by clear investment return rates such as reducing production and sales differentials, improving operational efficiency, and enhancing customer service. The procurement scale is large and the planning is strong.

The global IoT-enabled Valve-Controlled Water Meter market size was estimated at USD 663.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 7.90% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global IoT-enabled Valve-Controlled Water Meter market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global IoT-enabled Valve-Controlled Water Meter market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the IoT-enabled Valve-Controlled Water

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Meter market.

Global IoT-enabled Valve-Controlled Water Meter Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Badger Meter
Diehl Metering
Honeywell
Xylem
Itron
Kamstrup
Neptune Technology
Takahata Precison
Arad Group
B METERS
Ningbo Water Meter
Henan Xintian Technology
Hangzhou Shanke Intelligent Technology
Jiangxi Sanchuan Smart Technology
Jiangsu Maxtor Instrument
Hebei Huizhong Instrumentation

Market Segmentation (by Type)

NB-IoT Water Meters

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LoRa Water Meters
Other

Market Segmentation (by Application)

Commercial
Civilian

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the IoT-enabled Valve-Controlled Water Meter Market
Overview of the regional outlook of the IoT-enabled Valve-Controlled Water Meter Market:

Customization of the Report

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Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the IoT-enabled Valve-Controlled Water Meter Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of IoT-enabled Valve-Controlled Water Meter, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

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Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

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Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter?s five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

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