

Industrial Valve Market Set to Hit USD 128.22 Billion by 2035, Driven by Smart Automation & Fluid Control Innovations

Smart industrial valves, vital for fluid control in harsh environments, are advancing with IoT and AI to boost efficiency, safety, and reduce downtime

NEWARK, DE, UNITED STATES, June 11, 2025 /EINPresswire.com/ -- As industries worldwide intensify their focus on operational efficiency, safety, and digital transformation, the global industrial valve market is witnessing robust growth. Valued at USD 84.97 billion in 2025, the market is projected to reach USD 128.22 billion by 2035, expanding at a CAGR of 4.2% during



the forecast period. This surge is largely attributed to the growing adoption of AI-integrated smart valves that enable real-time monitoring and predictive maintenance redefining industrial fluid management.

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Industrial valve evolution is being defined by smart integration, resilience, and sustainability—fueling a global shift in process automation."

> opines Nikhil Kaitwade, Associate Vice President at FMI

Industrial valves are indispensable to modern fluid handling systems, enabling precise control, regulation, and safety across a multitude of sectors. These valves are the unsung heroes that ensure seamless operation under extreme pressure, temperature, and corrosive environments making them vital in oil & gas, water treatment, chemical processing, and power generation.

As automation and digitalization sweep through industries, the adoption of smart valve technologies is accelerating. Equipped with IoT sensors and AI-based diagnostics, these next-generation valves not only reduce downtime but also

extend operational lifespans. With real-time data insights, industries can optimize flow, prevent

leaks, and enhance asset integrity, laying the foundation for predictive plant maintenance.

The market is segmented by valve type, material, function, end-use industry, and region. By material, it includes cast steel, carbon steel, stainless steel, bronze, and other alloys. In terms of function, valves are classified into manual and automatic categories. The wide array of end-use sectors comprises oil and gas, water & wastewater treatment, chemicals, power plants, paper & pulp, and other heavy industrial verticals.

This market analysis offers detailed coverage of:

- Market segmentation by type, material, function, end-use, and geography
- Forecast from 2025 to 2035
- In-depth analysis of market dynamics, drivers, trends, and challenges
- Competitive landscape with profiles of key players
- Insights into smart valve technologies and industrial automation

Demand for process automation, rising investments in energy infrastructure, and the integration of AI into industrial systems are key drivers propelling the valve market globally.

From regulating oil pipelines to managing chemical mixtures, industrial valves are engineered to perform with precision. Their critical role in safety and efficiency ensures the reliability of complex industrial ecosystems.

These flow control devices are designed to meet stringent operational demands, offering maximum durability, corrosion resistance, and minimal maintenance needs. Their reliability ensures long-term value and sustainability in any plant operation.

Whether in a chemical refinery or a desalination plant, valves serve as central components to control, direct, and isolate fluid flow. Their presence is foundational to maintaining operational continuity and process safety.

Today's industries demand robust, leak-proof, and fast-acting valves to handle aggressive fluids and fluctuating pressures. Valve innovations are now pushing boundaries—offering better response time, enhanced sealing, and adaptability to various media.

Efficiency is the cornerstone of industrial competitiveness. High-performance valves, designed with smart diagnostics and control capabilities, help optimize throughput and reduce energy consumption.

By minimizing leakages, improving modulation, and reducing manual intervention, these advanced valve systems lower operational costs while maximizing process efficiency—meeting sustainability and compliance targets.

The global industrial valve market is entering a transformative era. With the integration of AI, smart sensors, and predictive maintenance tools, the functionality of valves is being reimagined. Innovation across materials—like corrosion-resistant alloys—and the shift toward automatic valves for precision applications will dominate the coming decade. Demand from sectors such as oil & gas, water treatment, and power generation remains robust, while new opportunities arise in smart manufacturing and green energy.

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Industrial valves are engineered to perform in some of the world's harshest environments—from deep-sea oil rigs to nuclear power plants. Their ability to withstand extreme temperatures, pressure fluctuations, and corrosive media is central to operational success.

These valves undergo rigorous testing and compliance checks to ensure peak performance and safety, even in mission-critical scenarios. This reliability makes them a trusted solution across high-risk industries.

In the oil & gas sector, valves ensure controlled flow of volatile hydrocarbons, preventing leakage and ensuring personnel safety. In water treatment, precision flow is essential for filtration and chemical dosing processes.

In power plants, valves manage steam and cooling systems with extreme precision. In pulp &

paper and chemical processing, they regulate corrosive or high-viscosity materials, ensuring consistent product quality and system uptime.

- Flowserve Corporation – Renowned for high-performance valves and control systems across energy and chemical sectors.

- Emerson Electric Co. A leader in automation and smart valve technologies.
- Schlumberger Ltd. Offers advanced valve solutions for upstream oilfield operations.
- KSB SE Specializes in fluid handling systems and durable valve assemblies.
- KITZ Corporation Known for precision valve manufacturing for global industrial markets.
- Alfa Laval Delivers valves designed for hygienic and heavy-duty fluid applications.
- CIRCOR International Provides engineered valves for defense, marine, and industrial uses.

The rise of Industry 4.0 is unlocking smarter valve control. Smart valves embedded with sensors and cloud connectivity are providing real-time system feedback, enabling rapid response and remote operations.

These solutions play a critical role in enabling predictive maintenance, reducing system failures, and enhancing production output. As plants modernize, the integration of intelligent valve technologies will be a key enabler of automation and digital transformation.

- North America: Advanced infrastructure and early AI adoption fuel market growth.
- Latin America: Growing energy sector and industrial expansion drive demand.
- Western Europe: Emphasis on sustainability and Industry 4.0 boost smart valve deployment.
- Eastern Europe: Infrastructure upgrades and manufacturing growth stimulate demand.
- East Asia: Dominated by China, rapid industrialization continues to spur expansion.
- South Asia & Pacific: India and Southeast Asia witness rising demand in water & wastewater projects.

- Middle East & Africa: Oil-rich regions heavily invest in valve systems for energy security and industrial diversification.

By Valve Type:

- Gate Valve
- Parallel
- Wedge
- Check Valve
- Dual Plate
- Piston Lift
- Spring Loaded Disk
- Swing Check
- Tilting Check
- Y Pattern
- T Pattern
- Ball Valve
- Trunnion
- Floating
- Threaded Series
- Butterfly Valve
- High Performance
- Lined
- Plug Valve
- Lined
- Lubricated
- Non-Lubricated
- Globe Valve
- Tee
- Angle
- Wye
- Safety Relief Valve
- Spring Loaded
- Pilot Operated
- Other Customized

By Valve Material:

- Cast Steel
- Carbon Steel
- Stainless Steel
- Bronze
- Other Alloys

By End-Use Industry:

- Oil & Gas Industry
- Chemical Industry

- Water & Wastewater Treatment Industry
- Power Plants Industry
- Paper & Pulp Industry
- Other Industries

By Function:

- Manual
- Automatic

The <u>United States Hydrogen Electrolyzers market</u> was USD 142.8 million in 2025 and is forecasted to be USD 1,207.9 million by 2035

The Latin America hydraulic filtration market is expected to rise at 4.9% CAGR between 2022 and 2032, totaling a valuation of USD 251.9 million by 2032

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