

# Smart Pressure Reducing Valve (PRV) Pilot Valve Market To Reach \$3.25 Bn By 2030 Driven By Expanding Industry Demand

*The Business Research Company's Smart Pressure Reducing Valve (PRV) Pilot Valve Market Report 2026 – Market Size, Trends, And Global Forecast 2026-2035*

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/EINPresswire.com/ -- "The [smart pressure reducing valve \(PRV\) pilot valve market](#)

is witnessing rapid advancements fueled by evolving industrial needs and technological innovation. As industries strive for more efficient and reliable fluid control systems, the demand for smart PRV pilot valves is rising steadily. Let's explore the market's size, growth factors, major drivers, key regions, and emerging trends shaping this vital sector.

The logo for The Business Research Company, featuring a stylized bar chart with three bars of increasing height, colored in teal and dark blue. The text "The Business Research Company" is written in a serif font to the left of the chart.

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## Market Size and Growth Outlook for the Smart Pressure Reducing Valve (PRV) Pilot Valve Market

The smart pressure reducing valve pilot valve market has experienced significant expansion in recent years. From a valuation of \$2.12 billion in 2025, it is projected to grow to \$2.31 billion in 2026, marking a robust compound annual growth rate (CAGR) of 8.8%. This upward trajectory in the historical period has been driven by greater adoption of mechanical pressure reducing valves within water distribution networks, the increasing need to maintain consistent downstream pressure in industrial pipelines, early incorporation of pilot-operated valve systems in utilities, expanding industrialization prompting upgrades to fluid control infrastructure, and the development of fundamental analog pressure control systems in manufacturing facilities.

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Looking ahead, the market is forecasted to maintain strong momentum, reaching \$3.25 billion by 2030 with a CAGR of 9.0%. This growth is expected to be fueled by rising demand for smart water management and leakage reduction solutions, increasing adoption of remote monitoring technologies in fluid networks, expansion of smart city and intelligent utility infrastructures,

growth in predictive maintenance and automated flow control systems, and a heightened focus on energy efficiency and pressure optimization in industrial processes. Key trends anticipated during this period include AI-driven adaptive pressure regulation and predictive valve optimization, IoT-enabled real-time pressure monitoring and remote PRV control, advanced sensor-integrated pilot valves offering multi-parameter feedback control, cloud-connected smart valves for centralized management, and cybersecurity-enhanced digital control systems designed to protect critical infrastructure.

#### Understanding the Functionality of a Smart Pressure Reducing Valve Pilot Valve

A smart pressure reducing valve pilot valve is an advanced device designed to automatically sustain stable downstream pressure by utilizing integrated sensors and controllers. Beyond pressure regulation, it offers capabilities such as monitoring, diagnostics, and remote operation, which contribute to enhanced safety and efficiency across fluid systems.

View the full smart pressure reducing valve (prv) pilot valve market report:

[https://www.thebusinessresearchcompany.com/report/smart-pressure-reducing-valve-prv-pilot-valve-market-report?utm\\_source=EINPresswire&utm\\_medium=Paid&utm\\_campaign=Jun\\_PR](https://www.thebusinessresearchcompany.com/report/smart-pressure-reducing-valve-prv-pilot-valve-market-report?utm_source=EINPresswire&utm_medium=Paid&utm_campaign=Jun_PR)

#### Key Factors Propelling [Growth in the Smart Pressure Reducing Valve \(PRV\) Pilot Valve Market](#)

The expanding use of smart industrial automation solutions is playing a crucial role in driving growth within the smart PRV pilot valve market. These technology-driven systems employ AI, IoT, and robotics to automate, monitor, and optimize industrial operations, thereby increasing efficiency and productivity. The surge in adoption of such automation arises from efforts to reduce labor costs by minimizing human involvement in repetitive tasks, while maintaining steady output levels.

Smart pressure reducing valve pilot valves contribute to these automation solutions by precisely controlling and stabilizing fluid or gas pressure in industrial setups. This capability enables exact process control, decreases the need for manual intervention, and supports real-time monitoring and optimization of automated systems. For example, in April 2024, the International Federation of Robotics reported that in the United States, installations of industrial robots rose by 12% to reach 44,303 units in 2023, illustrating a growing trend toward automation that benefits the PRV pilot valve market.

#### Increasing Emphasis on Wastewater Management as a Growth Driver

The rising importance of wastewater management is another significant factor boosting the smart pressure reducing valve pilot valve market. Wastewater management involves the collection, treatment, and safe disposal or reuse of wastewater to safeguard human health and environmental quality. Growing pollution levels have escalated the need for effective wastewater treatment solutions.

Smart pressure reducing valve pilot valves play a vital role in this field by accurately managing water pressure within pipelines, which helps prevent leaks, pipe bursts, and overflows, ensuring

smooth and reliable flow throughout wastewater systems. For instance, in May 2024, the Central Statistics Office of Ireland noted a 1.1% increase in registered domestic wastewater treatment systems, totaling 492,359 in 2023. These trends demonstrate the expanding demand for wastewater management solutions that support the market's growth.

#### Infrastructure Development Supporting Market Expansion

Rising investments in infrastructure are contributing strongly to the expansion of the smart pressure reducing valve pilot valve market. Infrastructure involves the financing and construction of foundational systems like roads, energy, water, and telecommunications that underpin economic activity and public services. Rapid urbanization is driving the need to develop and upgrade these essential facilities, including water and industrial networks.

Such investments facilitate the deployment and modernization of fluid systems where smart PRV pilot valves are used to regulate pressure effectively and ensure reliable operation. For example, in July 2025, the UK's Office for National Statistics reported that infrastructure sector investment reached £20.3 billion (\$23.64 billion) in 2024, a 16.9% increase compared to 2023. This surge in spending highlights the role of infrastructure growth in propelling the smart PRV pilot valve market forward.

#### Regional Market Leadership and Growth Prospects

In 2025, Asia-Pacific emerged as the largest market for smart pressure reducing valve pilot valves. This region is also expected to be the fastest-growing area over the forecast period. The global market report covers regions including Asia-Pacific, South East Asia, Western Europe, Eastern Europe, North America, South America, and the Middle East and Africa, providing a comprehensive view of market dynamics worldwide.

New strategic additions in our 2026 market reports include market attractiveness scoring and analysis, total addressable market (TAM) analysis, company scoring matrix graphics and tables, Excel-based forecasting dashboards, market hotspots infographics, key technologies and future trend analysis, along with updated graphics and tables.

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