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Safety Valves Market Forecasts to 2032 – Global Analysis By Product Type (Pressure Relief Valves (PRVs), Safety Relief Valves (SRVs), Vacuum Relief Valves (VRVs), Pop-Action Valves, Pilot Operated Valves (POPRVs) and Other Product Types), Material (Stainless Steel, Carbon Steel, Alloy Steel, Cast Iron, Specialty Alloys and Other Materials), Size, Distribution Channel, End User, and By Geography

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Abstracts

According to Stratistics MRC, the Global Safety Valves Market is accounted for $5.8 billion in 2025 and is expected to reach $9.5 billion by 2032 growing at a CAGR of 7.1% during the forecast period. Safety valves are mechanical devices designed to automatically release pressure from equipment or systems when it exceeds preset limits, preventing equipment damage or catastrophic failure. Commonly used in industries such as oil & gas, power generation, and chemical processing, these valves serve as critical fail-safes in pressurized systems. Their precise operation ensures regulatory compliance, operational safety, and system integrity, making them essential for maintaining safe and efficient industrial operations.

Market Dynamics:

Driver:

Increased adoption of safety automation

The growing adoption of safety automation is transforming the safety valves market by

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addressing the dual needs of operational efficiency and stringent safety standards. Automated safety valves are instrumental in sectors such as manufacturing, energy, and chemicals, where they enable real-time system management and predictive maintenance. With Industry 4.0 taking hold, companies are integrating smart valves that support remote operation and instant pressure control, greatly minimizing downtime and enhancing predictive maintenance. This drive for digitalization and robust safety measures is a key force underpinning the rising demand for advanced safety valve solutions.

Restraint:

Complex regulatory approval processes

Manufacturers must adhere to an array of international and regional standards such as ASME, API, and ISO, requiring lengthy certification, stringent testing, and significant documentation. These multifaceted procedures not only prolong product launches but also elevate costs and administrative burdens, particularly for smaller firms. Such complexity may discourage investments in safety valve upgrades or innovation, leading some end-users to seek alternatives that offer simpler compliance.

Opportunity:

Expansion of LNG and hydrogen infrastructure

New investments in LNG terminals, hydrogen plants, and related logistics require highly specialized safety valves to manage extreme pressures and cryogenic temperatures inherent to these applications. The global push for cleaner energy solutions is prompting rapid infrastructure development, particularly in Asia and emerging markets, which results in heightened demand for robust, compliant safety systems. Market players are responding by innovating valve technologies to meet the unique operational challenges of LNG and hydrogen, positioning themselves to benefit from this pivotal growth opportunity.

Threat:

Fluctuations in raw material prices

Fluctuations in raw material prices, especially for steel and industrial alloys, pose a significant threat. These materials are core to safety valve manufacturing, and their

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price volatility, driven by global economic shifts, supply chain disruptions, and geopolitical developments, directly impacts production costs and profit margins. This situation creates unpredictability in budgeting and pricing, challenging both manufacturers and end-users. Companies may delay projects, seek alternative solutions, or reconsider investments in new valve technologies during periods of severe price swings, which can dampen overall market expansion.

Covid-19 Impact:

The Covid-19 pandemic had a pronounced negative effect on the safety valves market, notably during the initial stages of the crisis. Government-imposed lockdowns led to factory shutdowns, supply chain interruptions, and halted large-scale industrial projects, causing a marked decline in demand. Additionally, labor shortages, social distancing regulations, and transport disruptions delayed ongoing installations and maintenance activities. However, as key industries gradually resumed operations and new priorities for workplace safety emerged, the market began to recover, spurred by accelerated investment in automation and enhanced safety protocols in the aftermath of the pandemic.

The pressure relief valves (PRVs) segment is expected to be the largest during the forecast period

The pressure relief valves (PRVs) segment is expected to account for the largest market share during the forecast period, driven by its indispensable role in preventing overpressure incidents across key industries such as oil and gas, chemicals, and power generation. PRVs are valued for their ability to automatically release excess system pressure, thereby safeguarding operators, equipment, and processes. Growing investments in industrial infrastructure projects, particularly in rapidly developing regions, further fuel this segment’s expansion.

The indirect sales segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the indirect sales segment is predicted to witness the highest growth rate. This sales model utilizing distributors, wholesalers, and local agents enables manufacturers to penetrate new and diverse markets, especially among small and medium-sized enterprises that may lack direct access to large suppliers. Indirect channels provide extensive local support, reduce logistical complications, and capitalize on the intermediaries' regional expertise, all of which collectively drive accelerated

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adoption. As industrial demand broadens geographically, companies increasingly value the reach and flexibility offered by indirect sales, positioning this segment for rapid expansion.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share, fueled by rapid industrial expansion in countries such as China, India, and Southeast Asian economies, where robust investments in sectors like oil and gas, manufacturing, and energy infrastructure drive significant demand for advanced safety solutions. Furthermore, government-led initiatives to enforce stricter safety standards and environmental protection accelerate market adoption. The region's manufacturing strength and rising focus on operational safety collectively contribute to its leading market position, drawing sustained investment and technological advancement.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR. This rapid growth is fueled by ongoing industrialization, urbanization, and infrastructure development. Countries like China and India are at the forefront, driven by the expansion of LNG terminals, renewable energy projects, and chemical processing facilities, all of which heavily utilize safety valves. Additionally, the shift toward smart manufacturing and automation, along with government incentives for modern energy infrastructure, further accelerates adoption.

Key players in the market

Some of the key players in Safety Valves Market include Emerson Electric Co., LESER GmbH & Co. KG, Cameron–Schlumberger Ltd., IMI Plc, Weir Group Plc, Baker Hughes, Bosch Rexroth AG, Forbes Marshall, Curtiss-Wright Corporation, Alfa Laval, Flowserve Corporation, Spirax Sarco Limited, General Electric, Danfoss, KSB SE & Co. KGaA, Velan Inc., and Bray International, Inc.

Key Developments:

In June 2025,Weir, a global leader in mining technology, has entered into a binding agreement to acquire US-based businesses Townley Engineering and Manufacturing Co., Inc. and Townley Foundry & Machine Co., Inc. (combined "Townley"), a leading manufacturer of high-quality engineered products for minerals processing, for a sterling

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equivalent1 enterprise value of ?111m (US$150m). The acquisition will strengthen Weir's market channels and manufacturing footprint in North America, including in the attractive phosphate market, a key mineral in modern fertilisers, essential for global food security and accessibility.

In February 2025, Emerson introduced the Anderson Greenwood Type 84 Pressure Relief Valve (PRV), specially designed to protect tanks and vessels used in hydrogen and other high-pressure gas applications. With Arlon® 3000XT* thermoplastic seating and ASME SA-479 Type S21800 stainless steel spindle material, the Type 84 PRV delivers exceptional leak-tight performance, resistance to embrittlement, optimum seat tightness, high reliability and long service life.

In May 2024, Curtiss-Wright Corporation announced it has been awarded contracts valued in excess of $130 million to provide propulsion valves, pumps and advanced instrumentation and control systems for the U.S. Navy's Virginia-class nuclear powered attack submarine, Columbia-class submarine and Ford-class aircraft carrier programs. The awards were received from Bechtel Plant Machinery, Inc. (BPMI) to support ship construction, spare parts and submarine back-fit procurements.

Product Types Covered:

- Pressure Relief Valves (PRVs)
- Safety Relief Valves (SRVs)
- Vacuum Relief Valves (VRVs)
- Pop-Action Valves
- Pilot Operated Valves (POPRVs)
- Other Product Types

Materials:

- Stainless Steel
- Carbon Steel

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- Alloy Steel
- Cast Iron
- Specialty Alloys
- Other Materials

Sizes Covered:

- Up to 1 inch
- 1 inch to 6 inches
- 6 inches to 25 inches
- Above 25 inches

Distribution Channels Covered:

- Direct Sales
- Indirect Sales

End Users Covered:

- Oil & Gas
- Energy & Power
- Chemicals & Petrochemicals
- Water & Wastewater Treatment
- Food & Beverage

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- Pharmaceuticals
- Metal & Mining
- Pulp & Paper
- Agriculture & Irrigation
- Semiconductors & Electronics
- Other End Users

Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK
  - Italy
  - France
  - Spain
  - Rest of Europe
- Asia Pacific

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- Japan
- China
- India
- Australia
- New Zealand
- South Korea
- Rest of Asia Pacific

South America

- Argentina
- Brazil
- Chile
- Rest of South America

Middle East & Africa

- Saudi Arabia
- UAE
- Qatar
- South Africa
- Rest of Middle East & Africa

What our report offers:

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- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

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All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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