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Pneumatic Components Market Size, Share & Trends Analysis Report By Product Type (Valves, Actuators, Air Treatment Components), By End-use (Automotive, F&B, Industrial Manufacturing, Electronics & Semiconductors), By Region, And Segment Forecasts, 2025 - 2030

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Abstracts

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Pneumatic Components Market Growth & Trends

The global pneumatic components market size is anticipated to reach USD 27.02 billion by 2030 and is anticipated to expand at a CAGR of 5.6% during the forecast period, according to a new report by Grand View Research, Inc. The demand for pneumatic components is witnessing consistent growth due to the global shift towards industrial automation and the need for cost-effective, efficient motion control solutions. Pneumatic systems are widely used in automotive, electronics, packaging, food and beverage, and manufacturing industries because of their reliability, ease of use, and low maintenance. As more companies adopt automated production processes to improve output and maintain quality, the use of pneumatic actuators, valves, cylinders, and filters is expanding rapidly. Compared to hydraulic and electric alternatives, the simplicity and affordability of pneumatic systems also make them attractive for small and medium-sized enterprises in emerging economies.

Several factors are driving the market's expansion. First, the increasing demand for energy-efficient and environmentally friendly equipment is leading manufacturers to choose pneumatic systems, which generally consume less power and have cleaner operations. Second, integrating smart technologies and sensors with pneumatic components enables predictive maintenance and system optimization, reducing downtime and operational costs. Third, the rapid growth in sectors such as automotive manufacturing, semiconductors, and e-commerce logistics has led to rising use of pneumatic tools in assembly lines, robotics, and material handling applications. In addition, government initiatives promoting domestic manufacturing and infrastructure development indirectly boost the need for automated pneumatic solutions.

The pneumatic components industry is undergoing technological transformation with a focus on smart pneumatics and digital integration. Modern pneumatic systems now incorporate sensors, IoT connectivity, and data analytics capabilities that allow real-time monitoring and performance feedback. This supports predictive maintenance and enhances system efficiency. Miniaturizing components and developing compact, lightweight actuators and valves have also opened new applications in precision engineering and wearable robotics. Moreover, manufacturers are investing in energy-saving technologies, such as pressure regulators with feedback control and leak-detection systems, to align with global sustainability goals and reduce operating costs.

The future of pneumatic components lies in their adaptability to evolving industrial requirements. As industries move toward more flexible, decentralized production models, pneumatic systems are being redesigned to support modular, plug-and-play setups that can be easily reconfigured. The growing emphasis on Industry 4.0 and smart manufacturing across regions such as Asia Pacific, Europe, and North America ensures continued investment in advanced pneumatic technologies. Rising awareness of workplace safety and automation in hazardous environments further strengthens the demand. Overall, pneumatic components meet current operational needs and evolve to align with future trends in automation, sustainability, and intelligent manufacturing.

Pneumatic Components Market Report Highlights

The valves segment led the market and accounted for the largest revenue share of 39.9% in 2024, because they are essential for controlling air flow and pressure in virtually all pneumatic systems, making them critical for automation and industrial applications.

The industrial manufacturing segment dominated the market and accounted for the largest revenue share of 33.8% in 2024, due to its high adoption of automation technologies requiring reliable, cost-effective, and efficient motion and control systems.

North America dominated the market and accounted for the largest revenue share of about 34.9% in 2024, driven by the growing automation in manufacturing and industrial processes.

Companies Mentioned

SMC Corporation.
Festo SE & Co. KG
Parker Hannifin Corporation.
Emerson Electric Co.
Norgren, Inc. (IMI, PIC)
Bosch Rexroth AG
Airtac International Group.
JELPC (Ningbo Jiaerling Pneumatic Machinery Co., Ltd.)
Zhaoqing Fangda pneumatic Co. Ltd
Camozzi Group

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CHAPTER 7. SUPPLIER INTELLIGENCE

CHAPTER 8. COMPETITIVE LANDSCAPE

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List Of Tables

LIST OF TABLES

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List Of Figures

LIST OF FIGURES

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