

# **Pneumatic Components Market By Type (Air Treatment Components, Pneumatic Valves, Pneumatic Cylinders, Others) , By End-use (Automotive, Construction, Aviation, Electrical, Medical, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2032**

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## **Abstracts**

### **Pneumatic Components Market**

The pneumatic components market was valued at \$31.7 billion in 2023 and is projected to reach \$55.1 billion by 2032, growing at a CAGR of 6.4% from 2024 to 2032.

Pneumatic components are the replaceable elements of a pneumatic device, which captures air from the atmosphere for cleaning and compression. This compressed air is used for the generation of force, motion, or energy. The elements considered as pneumatic components include compressors, actuators, air preparation objects, tubing fittings, valves, sensors, and control systems. They find applications in diverse industries, including automotive, packaging, healthcare, manufacturing, and food & beverage.

Increase in the integration of automation and robotic technology into the operations of industries is a key driver of the pneumatic components market as the technology relies on the mechanism of pneumatic solutions. In addition, surge in demand for clean energy sources augments the development of the market owing to the capability of air compressed through pneumatic systems to generate energy. Furthermore, the competence of pneumatic components to offer fail-safe operations and protection against overload propels the market growth. A significant trend acquiring traction in the

market is the miniaturization of components. Micro-pneumatics is gaining popularity across industries due to its capabilities of enhancing precision, flexibility, and efficiency in various operations.

However, the insufficiency of pneumatic components to cater to heavy-duty industrial operations limits their usability and hampers the growth of the market. Moreover, the presence of other robust alternatives such as hydraulic systems and electric actuators, which offer high force & precise control, restrains the market growth significantly. On the contrary, the lower manufacturing costs and requirement for fewer components in pneumatic systems as compared to hydraulic systems are expected to fuel the demand for the components across diverse industries, presenting lucrative opportunities for the market. A global fluid power content provider, Power & Motion recently surveyed its audience regarding their preferability for pneumatic systems. Approximately 73% of the responders chose pneumatics as their preferred option for suitable operations. This preference is poised to open new avenues for the pneumatic components market.

## Segment Review

The pneumatic components market is segmented into type, end use, and region. On the basis of type, the market is divided into air treatment components, pneumatic valves, pneumatic cylinders, and others. Depending on end use, it is classified into automotive, construction, aviation, electrical, medical, and others. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

## Key Findings

On the basis of type, the pneumatic cylinders segment held a high share of the market in 2023.

Depending on end use, the automotive segment acquired a high stake in the market in 2023.

Region wise, Asia-Pacific was the highest revenue generator in 2023.

## Competition Analysis

The leading players operating in the global pneumatic components market include SMC Corporation, Norgren, Inc. (IMI, PIC), Airtac International Group, Emerson Electric Co., Bosch Rexroth AG, Festo SE & Co. KG, JELPC (Ningbo Jiaerling Pneumatic Machinery

Co., Ltd.), Parker Hannifin Corporation, Camozzi Group, and Zhaoqing Fangda Pneumatic Co. Ltd. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships to strengthen their foothold in the competitive market.

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SWOT Analysis

Key Market Segments

By Type

Air Treatment Components

Pneumatic Valves

Pneumatic Cylinders

Others

By End-use

Automotive

Construction

Aviation

Electrical

Medical

Others

By Region

North America

U.S.

Canada

Mexico

Europe

France

Germany

Italy

Spain

UK

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

South Africa

Saudi Arabia

Rest of LAMEA

Key Market Players

SMC Corporation

Norgren, Inc. (IMI, PIC)

Airtac International Group

Emerson Electric Co.

Bosch Rexroth AG

Festo SE & Co. KG,

JELPC (Ningbo Jiaerling Pneumatic Machinery Co., Ltd.)

Parker Hannifin Corporation

Camozzi Group

Zhaoqing Fangda Pneumatic Co. Ltd.

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