

Global Carbon Steel Pneumatic Actuator Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Carbon Steel Pneumatic Actuator market size is expected to reach \$ 7714 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

In 2025, global sales of carbon steel pneumatic actuators reached 18.6 million units, with an average selling price of US\$265 per unit. Global total production capacity in 2025 was approximately 21.5 million units, with an average industry gross margin of about 27%. Carbon steel pneumatic actuators are industrial automation drive devices that use compressed air as a power source and carbon steel as the main material for the housing and structural components. They are mainly used to drive industrial valves such as ball valves, butterfly valves, gate valves, and control valves to achieve opening, closing, and flow regulation control. The products typically consist of a cylinder, piston, gear mechanism, spring assembly, sealing system, and control interface. They feature high output torque, fast response, robust structure, impact resistance, and suitability for complex industrial environments, and are widely used in oil and gas, chemical, power, water treatment, metallurgy, papermaking, shipbuilding, and industrial automated production lines.

The upstream sector primarily involves suppliers of carbon steel castings, forgings, seals, bearings, pneumatic components, solenoid valves, gear assemblies, and machined parts. Downstream consumption mainly comes from petrochemical plants, natural gas pipelines, power plant systems, water projects, industrial fluid control systems, and automation equipment manufacturing.

With the increasing level of industrial automation, the advancement of intelligent transformation in process industries, and the continued growth in energy infrastructure

construction, the market demand for pneumatic actuators remains stable and expanding. Future products will develop towards higher reliability, lower gas consumption, intelligent positioning and control, remote monitoring, and modularity. Meanwhile, hydrogen energy transportation, LNG projects, new energy chemical industries, and smart water management will continue to generate new market demands and business opportunities.

The carbon steel pneumatic actuator market is maintaining steady growth driven by the ongoing automation upgrades in global process industries and the continuous construction of energy infrastructure. As a core drive device in industrial valve automatic control systems, carbon steel pneumatic actuators are widely used in oil and gas, chemical, power, water treatment, metallurgy, papermaking, and shipbuilding industries due to their advantages such as high output torque, robust structure, stable operation, and suitability for high-frequency operating environments. With industrial enterprises increasingly demanding continuous production, safety control, and automated management, traditional manual valve control is rapidly upgrading to automated execution systems, providing a long-term demand foundation for the pneumatic actuator market.

From a market demand structure perspective, the oil and gas and chemical industries remain the largest end-use market. Refining units, natural gas pipelines, chemical production lines, and storage and transportation systems have high requirements for automatic valve control, thus continuously driving the procurement growth of carbon steel pneumatic actuators. Meanwhile, the increasing demand for automation upgrades of medium and large industrial valves in the water treatment, power, and metallurgical industries is also an important source of market growth. In recent years, the accelerated construction of LNG projects, hydrogen energy transportation, new energy chemical projects, and marine engineering has further increased the demand for actuators with high reliability and resistance to complex operating conditions.

From a technological development perspective, carbon steel pneumatic actuators are evolving towards greater intelligence, higher efficiency, and lower maintenance. Intelligent positioners, remote condition monitoring, digital communication protocols, and predictive maintenance functions are becoming essential features of high-end products, enabling actuators to interact with DCS, SCADA, and industrial internet platforms. Simultaneously, low-air-consumption designs, highly corrosion-resistant coatings, and modular structures are continuously improving product operating efficiency and maintenance convenience. Furthermore, with rising industrial safety standards, the demand for explosion-proof and high-reliability actuators is also steadily

increasing.

Overall, the carbon steel pneumatic actuator market represents a stable and important segment within the industrial automation control field. Its growth is primarily driven by the upgrading of process industry automation, increased investment in energy projects, and the development of smart manufacturing. In the future, with the construction of smart factories, industrial digital transformation, and the expansion of new energy infrastructure, high-reliability, intelligent control, and low-energy-consumption products will become the main direction of market development. Companies with precision manufacturing capabilities, advantages in automatic control technology, and industry project experience are expected to gain greater development space in future market competition.

This report studies the global Carbon Steel Pneumatic Actuator production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Carbon Steel Pneumatic Actuator and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Carbon Steel Pneumatic Actuator that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Carbon Steel Pneumatic Actuator total production and demand, 2021-2032, (K Units)

Global Carbon Steel Pneumatic Actuator total production value, 2021-2032, (USD Million)

Global Carbon Steel Pneumatic Actuator production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Carbon Steel Pneumatic Actuator consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Carbon Steel Pneumatic Actuator domestic production, consumption, key domestic manufacturers and share

Global Carbon Steel Pneumatic Actuator production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Carbon Steel Pneumatic Actuator production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Carbon Steel Pneumatic Actuator production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Carbon Steel Pneumatic Actuator market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ACTUATECH, Valen Tech, OMAL, Bosch Rexroth, Emerson, Rotork, Flowserve, COVNA, Pov Valve, VINCER Valve, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Carbon Steel Pneumatic Actuator market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Carbon Steel Pneumatic Actuator Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Carbon Steel Pneumatic Actuator Market, Segmentation by Type:

Membrane Type

Piston Type

Rack and Pinion Type

Shift Fork Type

Global Carbon Steel Pneumatic Actuator Market, Segmentation by Form of Action:

Single-acting Actuator

Double-acting Actuator

Global Carbon Steel Pneumatic Actuator Market, Segmentation by Torque Range:

Torque Range: 10 - 500 N?m

Torque Range: 500 - 10,000 N?m+

Global Carbon Steel Pneumatic Actuator Market, Segmentation by Application:

Chemical Industry

Metallurgy

Water Treatment

Others

Companies Profiled:

ACTUATECH

Valen Tech

OMAL

Bosch Rexroth

Emerson

Rotork

Flowserve

COVNA

Pov Valve

VINCER Valve

Air Torque

EFFEBI

Bray International

SMC Corporation

VATTEN

Key Questions Answered:

1. How big is the global Carbon Steel Pneumatic Actuator market?
2. What is the demand of the global Carbon Steel Pneumatic Actuator market?
3. What is the year over year growth of the global Carbon Steel Pneumatic Actuator market?
4. What is the production and production value of the global Carbon Steel Pneumatic Actuator market?
5. Who are the key producers in the global Carbon Steel Pneumatic Actuator market?
6. What are the growth factors driving the market demand?

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