

Global Carbon Steel Pneumatic Actuator Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Carbon Steel Pneumatic Actuator market size was valued at US\$ 5072 million in 2025 and is forecast to a readjusted size of US\$ 7714 million by 2032 with a CAGR of 6.2% during review period.

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 is a detailed and comprehensive analysis for global Carbon Steel Pneumatic Actuator market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Carbon Steel Pneumatic Actuator market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Carbon Steel Pneumatic Actuator market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Carbon Steel Pneumatic Actuator market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Carbon Steel Pneumatic Actuator market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Carbon Steel Pneumatic Actuator

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Carbon Steel Pneumatic Actuator market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Carbon Steel Pneumatic Actuator market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Membrane Type

Piston Type

Rack and Pinion Type

Shift Fork Type

Market segment by Form of Action

Single-acting Actuator

Double-acting Actuator

Market segment by Torque Range

Torque Range: 10 - 500 N?m

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

Market segment by Application

Chemical Industry

Metallurgy

Water Treatment

Others

Major players covered

ACTUATECH

Valen Tech

OMAL

Bosch Rexroth

Emerson

Rotork

Flowserve

COVNA

Pov Valve

VINCER Valve

Air Torque

EFFEBI

Bray International

SMC Corporation

VATTEN

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Carbon Steel Pneumatic Actuator product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Carbon Steel Pneumatic Actuator,

with price, sales quantity, revenue, and global market share of Carbon Steel Pneumatic Actuator from 2021 to 2026.

Chapter 3, the Carbon Steel Pneumatic Actuator competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Carbon Steel Pneumatic Actuator breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Carbon Steel Pneumatic Actuator market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Carbon Steel Pneumatic Actuator.

Chapter 14 and 15, to describe Carbon Steel Pneumatic Actuator sales channel, distributors, customers, research findings and conclusion.

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