

Global Carbon Steel Cryogenic Valve Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Carbon Steel Cryogenic Valve market size is expected to reach \$ 2755 million by 2032, rising at a market growth of 7.1% CAGR during the forecast period (2026-2032).

Carbon steel cryogenic valves are industrial flow control devices specifically designed for operation under extremely low temperature conditions. They are commonly used in liquefied natural gas (LNG), industrial gas processing, air separation units, and cryogenic energy systems. These valves maintain sealing integrity, structural stability, and flow control performance even in ultra-low temperature environments, ensuring safe and efficient regulation of cryogenic media in industrial applications. The carbon steel cryogenic valve industry chain includes several key links. The upstream mainly covers the supply of basic raw materials and components such as carbon steel materials, cryogenic alloy materials, seals, and precision castings. The midstream involves valve manufacturing and system integration, including valve body processing, cryogenic structural design, sealing technology application, performance testing, and quality inspection. Downstream applications are mainly concentrated in the LNG, petrochemical, air separation, energy transportation, and industrial gas sectors, used for flow control and safe regulation of cryogenic media. The industry chain also includes engineering installation, equipment maintenance, and system integration services to ensure long-term stable operation of equipment in extreme low-temperature environments. In 2025, global production of carbon steel cryogenic valves is projected to reach approximately 890,000 units, with an average market price of approximately US\$1,850 per unit. The gross profit margin of major companies in the industry ranges from 25% to 44%. In 2025, the global production capacity of carbon steel cryogenic valves is expected to reach approximately 1.19 million units.

The Carbon Steel Cryogenic Valve market is a specialized industrial segment driven by growing demand for LNG infrastructure, industrial gas processing, and low-temperature energy systems. These valves are critical components in cryogenic applications, ensuring safe and precise control of liquefied gases under extreme temperature conditions. Market growth is supported by global energy transition trends, expansion of LNG trade, and increasing demand for industrial gases. Technological advancements in low-temperature materials, sealing systems, and precision manufacturing are improving product reliability and performance. However, the market faces challenges such as high manufacturing complexity, strict safety regulations, and strong dependence on large-scale energy and industrial projects. Overall, the industry demonstrates stable long-term growth potential, closely linked to global energy infrastructure development and cryogenic engineering applications.

This report studies the global Carbon Steel Cryogenic Valve production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Carbon Steel Cryogenic Valve 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 Cryogenic Valve that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Carbon Steel Cryogenic Valve total production and demand, 2021-2032, (K Units)

Global Carbon Steel Cryogenic Valve total production value, 2021-2032, (USD Million)

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

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

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

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

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

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

This report profiles key players in the global Carbon Steel Cryogenic Valve 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 Emerson, Flowserve, SLB (Cameron), Velan, Herose, Parker Bestobell, Powell Valves, L&T Valves, Bac Valves, Habonim, 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 Cryogenic Valve 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 Cryogenic Valve Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Carbon Steel Cryogenic Valve Market, Segmentation by Type:

Globe Valve

Gate Valve

Check Valve

Ball Valve

Others

Global Carbon Steel Cryogenic Valve Market, Segmentation by End Connection:

Flanged Cryogenic Valve

Welded Cryogenic Valve

Threaded Cryogenic Valve

Butt-Weld Cryogenic Valve

Global Carbon Steel Cryogenic Valve Market, Segmentation by Temperature Range:

Light Cold: -40°C to -80°C

Standard Cold: -80°C to -120°C

Cryogenic Cold: -120°C to -196°C

Ultra-cryogenic Cold: < -196°C

Global Carbon Steel Cryogenic Valve Market, Segmentation by Application:

Energy & Power

Chemical

Food & Beverage

Healthcare

Other

Companies Profiled:

Emerson

Flowserve

SLB (Cameron)

Velan

Herose

Parker Bestobell

Powell Valves

L&T Valves

Bac Valves

Habonim

IMI Critical

Neway

KITZ Corporation

Miyairi Valve Mfg.

Key Questions Answered:

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

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