

Global CO₂ Refrigeration Valve Station Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global CO₂ Refrigeration Valve Station market size is expected to reach \$ 1232 million by 2032, rising at a market growth of 9.4% CAGR during the forecast period (2026-2032).

A CO₂ Refrigeration Valve Station is an integrated refrigerant-control assembly designed to regulate, isolate, filter, direct or protect the flow of R744 refrigerant within a commercial or industrial refrigeration system.

The station may combine shut-off valves, strainers, check valves, solenoid valves, electronic expansion valves, pressure-regulating valves, safety devices and measurement ports within a common valve body, welded pipe assembly, manifold or skid-mounted structure.

Typical installation positions include evaporator liquid-feed lines, suction lines, hot-gas defrost circuits, liquid-drain lines, flash-gas bypass circuits, gas-cooler outlet lines, receiver outlets and CO₂ pumping circuits.

The 2025 ASP is US\$3,850 per unit, global sales volume is approximately 168,000 units, and the estimated average gross margin is approximately 36%.

The upstream chain includes cast and forged steel bodies, stainless steel, copper-iron alloy tubing, sealing materials, springs, strainers, solenoid coils, stepper motors, pressure sensors, temperature sensors and industrial connectors. Midstream activities include flow-path design, valve sizing, machining, welding, assembly, pressure testing, leakage testing, control-module configuration and functional validation. Downstream users mainly include food retailers, cold-storage and logistics facilities, food and

beverage processors, industrial-process cooling facilities and ice or leisure venues.

CO₂ refrigeration is expanding from European food retail into North American supermarkets, cold-storage facilities, food processing and larger industrial applications.

The increasing installed base directly raises demand for evaporator valve stations, high-pressure valve groups, flash-gas control assemblies and replacement valve modules.

Integrated valve stations are gaining share over conventional field-assembled valve groups because they reduce the number of welds, installation time, required space and potential leakage points.

Modular construction is becoming the principal product direction. A common pressure-bearing body can be configured with different shut-off, filtering, solenoid, regulating and check-valve modules according to the application.

Factory pressure testing is particularly important for CO₂ systems because small assembly or welding defects may become significant at elevated standstill and operating pressures.

Transcritical systems create demand for valves and stations with pressure ratings of approximately 90–140 bar or higher on the high-pressure side. Lower-pressure evaporator and suction stations may use 52–65 bar platforms, depending on system design and standstill pressure.

System pressure cannot be selected only according to normal operating pressure. Designers must also consider power failure, refrigerant migration, ambient heating and the maximum possible standstill pressure.

Report Scope

This report studies the global CO₂ Refrigeration Valve Station production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for CO₂ Refrigeration Valve Station 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 CO₂ Refrigeration Valve Station that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global CO₂ Refrigeration Valve Station total production and demand, 2021-2032, (K Units)

Global CO₂ Refrigeration Valve Station total production value, 2021-2032, (USD Million)

Global CO₂ Refrigeration Valve Station production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global CO₂ Refrigeration Valve Station consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: CO₂ Refrigeration Valve Station domestic production, consumption, key domestic manufacturers and share

Global CO₂ Refrigeration Valve Station production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global CO₂ Refrigeration Valve Station production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global CO₂ Refrigeration Valve Station production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global CO₂ Refrigeration Valve Station 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 Danfoss A/S, Parker Hannifin Corporation, Hansen Technologies Corporation, Shandong DoFun Refrigeration Technology Co., Ltd., GEA AWP GmbH, Castel S.r.l., CAREL Industries S.p.A., Sanhua Holding Group Co., Ltd., Henry Group Industries Ltd., Mueller Industries, Inc., 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 CO₂ Refrigeration Valve Station 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 CO₂ Refrigeration Valve Station Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global CO₂ Refrigeration Valve Station Market, Segmentation by

Global CO₂ Refrigeration Valve Station Supply, Demand and Key Producers, 2026-2032

Type:

Carbon Steel

Stainless Steel

Copper-Iron Alloy

Mixed-Material Assembly

Global CO₂ Refrigeration Valve Station Market, Segmentation by Maximum Working Pressure:

Below 60 bar

60–90 bar

Above 90–120 bar

Above 120–140 bar

Above 140 bar

Global CO₂ Refrigeration Valve Station Market, Segmentation by Control Method:

Manual or Mechanical Control

Solenoid Control

Electronic Motor Control

Pneumatic Control

Hybrid Control

Global CO₂ Refrigeration Valve Station Market, Segmentation by Application:

Food Retail

Cold Storage and Logistics

Food and Beverage Processing

Ice and Leisure Facilities

Others

Companies Profiled:

Danfoss A/S

Parker Hannifin Corporation

Hansen Technologies Corporation

Shandong DoFun Refrigeration Technology Co., Ltd.

GEA AWP GmbH

Castel S.r.l.

CAREL Industries S.p.A.

Sanhua Holding Group Co., Ltd.

Henry Group Industries Ltd.

Mueller Industries, Inc.

Johnson Controls International plc (M&M Carnot)

SCM Frigo S.p.A.

Copeland LP

Key Questions Answered

1. How big is the global CO? Refrigeration Valve Station market?
2. What is the demand of the global CO? Refrigeration Valve Station market?
3. What is the year over year growth of the global CO? Refrigeration Valve Station market?
4. What is the total value of the global CO? Refrigeration Valve Station market?
5. Who are the Major Players in the global CO? Refrigeration Valve Station market?
6. What are the growth factors driving the market demand?

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