

Global CO₂ Refrigeration Valve Station Market Growth 2026-2032

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Abstracts

The global CO₂ Refrigeration Valve Station market size is predicted to grow from US\$ 633 million in 2025 to US\$ 1209 million in 2032; it is expected to grow at a CAGR of 10.0% from 2026 to 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

LP Information, Inc. (LPI) ' newest research report, the “CO₂ Refrigeration Valve Station Industry Forecast” looks at past sales and reviews total world CO₂ Refrigeration Valve Station sales in 2025, providing a comprehensive analysis by region and market sector of projected CO₂ Refrigeration Valve Station sales for 2026 through 2032. With CO₂ Refrigeration Valve Station sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world CO₂ Refrigeration Valve Station industry.

This Insight Report provides a comprehensive analysis of the global CO₂ Refrigeration Valve Station landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on CO₂ Refrigeration Valve Station portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global CO₂ Refrigeration Valve Station market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for CO₂ Refrigeration Valve Station and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global CO₂ Refrigeration Valve Station.

This report presents a comprehensive overview, market shares, and growth opportunities of CO₂ Refrigeration Valve Station market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Carbon Steel

Stainless Steel

Copper-Iron Alloy

Mixed-Material Assembly

Segmentation by Maximum Working Pressure:

Below 60 bar

60–90 bar

Above 90–120 bar

Above 120–140 bar

Above 140 bar

Segmentation by Control Method:

Manual or Mechanical Control

Solenoid Control

Electronic Motor Control

Pneumatic Control

Hybrid Control

Segmentation by Application:

Food Retail

Cold Storage and Logistics

Food and Beverage Processing

Ice and Leisure Facilities

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global CO₂ Refrigeration Valve Station market?

What factors are driving CO₂ Refrigeration Valve Station market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do CO₂ Refrigeration Valve Station market opportunities vary by end market size?

How does CO₂ Refrigeration Valve Station break out by Type, by Application?

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