

Global Electric Vehicle CO2 Solenoid Valves Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Electric Vehicle CO2 Solenoid Valves market size is expected to reach \$ 5436 million by 2032, rising at a market growth of 13.2% CAGR during the forecast period (2026-2032).

In 2025, global sales volume of electric vehicle CO2 solenoid valves is estimated at approximately 110 million units, with an average selling price of around USD 22 per unit. EV CO2 solenoid valves are critical fluid control components used in CO2 (R744) heat pump and thermal management systems. They enable flow switching and pressure regulation of CO2 refrigerant across compressors, heat exchangers, expansion circuits, and multi-zone thermal management architectures via electromagnetic actuation. These valves typically consist of high-pressure-resistant valve bodies, electromagnetic coil assemblies, precision valve cores, and high-sealing materials, allowing stable operation under high-pressure (transcritical CO2 conditions) and wide temperature ranges. They are mainly used in EV heat pump air conditioning systems, battery thermal management systems, and integrated vehicle thermal management modules, playing a key role in improving low-temperature driving range and energy efficiency. Key technical differentiators include high-pressure sealing reliability, low-leakage control capability, response speed, and long-term stability under high-frequency switching conditions.

From a market structure perspective, EV CO2 solenoid valves represent a high-growth, technology-driven sub-segment within new energy vehicle thermal management systems. Demand is primarily driven by increasing EV penetration and the adoption of heat pump systems for low-temperature operation. Compared with conventional refrigerants such as R134a and R1234yf, CO2-based (R744) thermal systems operate at significantly higher pressures and require more complex system integration, resulting in substantially higher technical barriers for valve components. Competition is mainly

focused on high-pressure sealing technology, system-level thermal management compatibility, and automotive-grade reliability validation. The market is still in an early rapid expansion phase, with relatively high customer concentration and strong linkage between OEMs and Tier-1 suppliers, reflecting both technology-driven and certification-driven characteristics.

This report studies the global Electric Vehicle CO2 Solenoid Valves production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Electric Vehicle CO2 Solenoid Valves 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 Electric Vehicle CO2 Solenoid Valves that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Electric Vehicle CO2 Solenoid Valves total production and demand, 2021-2032, (Units)

Global Electric Vehicle CO2 Solenoid Valves total production value, 2021-2032, (USD Million)

Global Electric Vehicle CO2 Solenoid Valves production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Electric Vehicle CO2 Solenoid Valves consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Electric Vehicle CO2 Solenoid Valves domestic production, consumption, key domestic manufacturers and share

Global Electric Vehicle CO2 Solenoid Valves production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Electric Vehicle CO2 Solenoid Valves production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Electric Vehicle CO2 Solenoid Valves production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Electric Vehicle CO2 Solenoid Valves 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, Magnet Schultz, Westport Fuel Systems, OMB SALERI, Bitron, ETO GRUPPE, IMI Norgren, B?rkert, EKK Eagle,

Hamai Industries, 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 Electric Vehicle CO2 Solenoid Valves market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Electric Vehicle CO2 Solenoid Valves Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Electric Vehicle CO2 Solenoid Valves Market, Segmentation by Type:

Direct Acting Solenoid Valves

Pilot Operated Solenoid Valves

Global Electric Vehicle CO2 Solenoid Valves Market, Segmentation by Normal Position:

Normally Closed (NC) Solenoid Valve

Normally Open (NO) Solenoid Valve

Global Electric Vehicle CO2 Solenoid Valves Market, Segmentation by Ambient Temperature Grade:

-10~80°C

>80°C

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