

Global Sub-Step Direct-Acting Solenoid Valve Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Sub-Step Direct-Acting Solenoid Valve market size is expected to reach \$ 4677 million by 2032, rising at a market growth of 5.8% CAGR during the forecast period (2026-2032).

In 2025, global sales volume of sub-step direct-acting solenoid valves is estimated at approximately 210 million units, with an average selling price of around USD 15 per unit. A sub-step direct-acting solenoid valve is a hybrid structure that combines direct-acting and pilot-assisted operating principles. It uses electromagnetic force to directly drive the main spool over a short initial stroke, and then leverages pressure differential assistance to complete the full opening or closing process, enabling reliable operation even under low or zero differential pressure conditions. These valves typically consist of an electromagnetic coil assembly, staged spool structure, spring system, and sealing components. They balance fast response with higher flow capacity, overcoming the inherent flow limitations of traditional direct-acting designs. They are widely used in industrial automation equipment, compact pneumatic systems, medical devices, analytical instruments, household appliances, and certain EV thermal management and auxiliary control systems. Key performance differences lie in low-pressure actuation capability, response stability, cycle life, and micro-flow control precision.

From a market structure perspective, sub-step direct-acting solenoid valves represent a structural upgrade segment within the solenoid valve industry. Demand is driven by equipment miniaturization, increasing precision control requirements, and higher stability demands under complex operating conditions. This product category forms a performance bridge between traditional direct-acting and pilot-operated valves, making it suitable for low differential pressure actuation and medium flow control scenarios, leading to increasing penetration in industrial automation and precision equipment

applications. Key technical barriers include structural optimization capability, micro-manufacturing precision, low-power electromagnetic actuation efficiency, and long-term operational consistency. The market exhibits a dual-layer structure of standardized base products and high-end precision upgrades, with leading companies building competitive advantages through platform-based design and multi-application expansion.

This report studies the global Sub-Step Direct-Acting Solenoid Valve production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Sub-Step Direct-Acting Solenoid 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 Sub-Step Direct-Acting Solenoid Valve that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Sub-Step Direct-Acting Solenoid Valve total production and demand, 2021-2032, (Units)

Global Sub-Step Direct-Acting Solenoid Valve total production value, 2021-2032, (USD Million)

Global Sub-Step Direct-Acting Solenoid Valve production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Sub-Step Direct-Acting Solenoid Valve consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Sub-Step Direct-Acting Solenoid Valve domestic production, consumption, key domestic manufacturers and share

Global Sub-Step Direct-Acting Solenoid Valve production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Sub-Step Direct-Acting Solenoid Valve production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Sub-Step Direct-Acting Solenoid Valve production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Sub-Step Direct-Acting Solenoid 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, 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 Sub-Step Direct-Acting Solenoid Valve 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 Sub-Step Direct-Acting Solenoid Valve Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Sub-Step Direct-Acting Solenoid Valve Market, Segmentation by Type:

Two-Way Solenoid Valve

Three-Way Solenoid Valve

Four-Way Solenoid Valve

Others

Global Sub-Step Direct-Acting Solenoid Valve Market, Segmentation by Normal Position:

Normally Closed (NC) Solenoid Valve

Normally Open (NO) Solenoid Valve

Global Sub-Step Direct-Acting Solenoid Valve Market, Segmentation by Ambient Temperature Grade:

-10~80°C

>80°C

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