

Global Direct-Acting Miniature Solenoid Valves Market Growth 2026-2032

<https://marketpublishers.com/r/G513A3DF069BEN.html>

Date: July 2026

Pages: 142

Price: US\$ 3,660.00 (Single User License)

ID: G513A3DF069BEN

Abstracts

The global Direct-Acting Miniature Solenoid Valves market size is predicted to grow from US\$ 606 million in 2025 to US\$ 829 million in 2032; it is expected to grow at a CAGR of 4.7% from 2026 to 2032.

A direct-acting miniature solenoid valve is a miniaturized electromagnetic control valve that uses the electromagnetic force generated by an electromagnetic coil to directly drive the valve core to open or close the fluid passage. Its working principle is that when the electromagnetic coil is energized, it generates a magnetic field that directly attracts the armature, causing the valve core to move and thus controlling the flow of gas or liquid media. After power is cut off, a spring returns the valve to its initial state.

The upstream of the industry chain mainly includes suppliers of raw materials and components such as high-purity copper wire, permanent magnet materials, precision springs, engineering plastics, rubber seals, valve body metals (brass, stainless steel, or aluminum alloy), microelectronic components, and coil winding equipment. The midstream consists of companies engaged in the research and development and manufacturing of direct-acting miniature solenoid valves, responsible for electromagnetic coil design, valve core structure optimization, fluid dynamics analysis, precision assembly, and performance testing and certification, resulting in products suitable for low-pressure, low-flow, and fast-response scenarios. Downstream applications include medical equipment, semiconductor equipment, industrial automation equipment, robots, and environmental monitoring instruments.

In 2025, the global sales volume of direct-acting miniature solenoid valves will reach 95.3 million units, with a production capacity of approximately 136 million units. The average selling price is US\$6.5 per unit, and the average gross profit margin is

30%-40%.

Increased global investment in healthcare, continued active life science research, and semiconductor industry expansion have created a favorable market environment for the direct-acting miniature solenoid valve industry. Countries are continuously increasing their support for high-end medical devices, laboratory automation, intelligent industrial manufacturing, and semiconductor localization, driving growth in related equipment investment. Meanwhile, increasingly stringent medical device certification, semiconductor cleanroom standards, and industrial automation safety regulations are prompting companies to strengthen product reliability and quality systems. Industry mergers and acquisitions and technological collaborations are also increasing, accelerating market concentration.

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

This Insight Report provides a comprehensive analysis of the global Direct-Acting Miniature Solenoid Valves 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 Direct-Acting Miniature Solenoid Valves portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Direct-Acting Miniature Solenoid Valves market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Direct-Acting Miniature Solenoid Valves 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 Direct-Acting Miniature Solenoid Valves.

This report presents a comprehensive overview, market shares, and growth

opportunities of Direct-Acting Miniature Solenoid Valves market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

2-Way

3-Way

Others

Segmentation by Control State:

Normally Open

Normally Closed

Segmentation by Pressure:

<0.1 MPa

0.1-0.7 MPa

>0.7 MPa

Segmentation by Application:

Medical Devices

Industrial Automation

Robotics

Semiconductor Equipment

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.

Festo

SMC Corporation

Parker

Gegasol BV

Bürkert

Hydraquip

IMI Precision Engineering

CKD Corporation

KOGANEI

ASCO

Clippard

Norgren

Kendrion

The Lee Company

Airtac

Yitai Nuo

Xingchen Pneumatics

Zhejiang Sanhua Intelligent Control

Ningbo Xingyu Electronics

Key Questions Addressed in this Report

What is the 10-year outlook for the global Direct?Acting Miniature Solenoid Valves market?

What factors are driving Direct?Acting Miniature Solenoid Valves market growth, globally and by region?

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

How do Direct?Acting Miniature Solenoid Valves market opportunities vary by end market size?

How does Direct?Acting Miniature Solenoid Valves break out by Type, by Application?

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