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Global Pneumatic Direct-acting Solenoid Valves Market Growth 2026-2032

https://marketpublishers.com/r/G9DB9BE398DEEN.html
Date: October 2026
Pages: 91
Price: US$ 3,660.00 (Single User License)
ID: G9DB9BE398DEEN

Abstracts

The global Pneumatic Direct-acting Solenoid Valves market size is predicted to grow from US$ 2808 million in 2025 to US$ 3588 million in 2032; it is expected to grow at a CAGR of 3.6% from 2026 to 2032.

Pneumatic Direct-acting Solenoid Valves are control elements that use electromagnetic force to directly drive the valve core to achieve reversing. They are widely used in hydraulic or pneumatic equipment in automation systems. When the power is on, the electromagnetic coil generates electromagnetic force to lift the closing part from the valve seat and the valve opens; when the power is off, the electromagnetic force disappears, the spring presses the closing part on the valve seat, and the valve closes to control the flow of gas, thereby realizing pneumatic transmission and control technology.

As the automotive, electronics, semiconductor, new energy, industrial robotics, intelligent logistics, and packaging industries continuously increase their automation levels, a large number of production equipment require pneumatic systems to perform clamping, positioning, handling, sorting, and execution actions. As a core switching element in pneumatic control systems, the demand for solenoid valves continues to grow. Particularly in automotive parts production lines, lithium battery manufacturing equipment, 3C electronics assembly equipment, and robotic automated production lines, the requirements for operating frequency, response time, and operational stability are constantly increasing, driving the expansion of high-performance direct-acting solenoid valve applications. Simultaneously, as manufacturing enterprises move towards flexible production and miniaturized equipment, the demand for compact, high-response, and low-power pneumatic components is increasing, giving direct-acting solenoid valves a more significant application advantage compared to traditional large

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control valves.

With the trend towards miniaturization and modularization in industrial equipment, pneumatic direct-acting solenoid valves are also evolving towards miniaturization and integration. In robot end effectors, medical equipment, laboratory instruments, and precision automated equipment, limited installation space places higher demands on valve size, weight, and response speed, thus increasing the demand for miniature direct-acting solenoid valves. Meanwhile, the development of valve island technology has driven the integration of multiple solenoid valves, control modules, and communication interfaces, improving equipment wiring efficiency and maintenance convenience. In the future, pneumatic control systems will place greater emphasis on modular design, enabling rapid configuration through standardized interfaces and intelligent control platforms, thereby improving the development efficiency of automated equipment.

Report Scope

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Pneumatic Direct-acting 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

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nuanced view of the current state and future trajectory in the global Pneumatic Direct-acting Solenoid Valves.

This report presents a comprehensive overview, market shares, and growth opportunities of Pneumatic Direct-acting Solenoid Valves market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Three-way SV

Four-way SV

Five-way SV

Others

Segmentation by Drive Type:

Single Solenoid

Double Solenoid

Segmentation by Performance:

Standard Type

High-Speed Response Type

Others

Segmentation by Application:

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- Automation
- Transportation
- Industrial
- 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

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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.

IMI Group

Emerson

CEME

B?rkert

SMC

MAC

CKD

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Parker

Danfoss

Ingersoll-Rand

Key Questions Addressed in this Report

What is the 10-year outlook for the global Pneumatic Direct-acting Solenoid Valves market?

What factors are driving Pneumatic Direct-acting Solenoid Valves market growth, globally and by region?

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

How do Pneumatic Direct-acting Solenoid Valves market opportunities vary by end market size?

How does Pneumatic Direct-acting Solenoid Valves break out by Type, by Application?

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