

Global Pneumatic Direct Operated Solenoid Valves Market Research Report 2026(Status and Outlook)

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Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on Pneumatic Direct Operated Solenoid Valves competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. Pneumatic direct operated solenoid valves are widely used fluid control components designed to regulate the on/off state and flow direction of gases, liquids, or steam. Unlike pilot-operated solenoid valves, direct-acting valves rely on the electromagnetic coil to directly drive the plunger or valve seat, offering faster response times and a more compact structure. This makes them particularly suitable for low-pressure or zero-pressure differential applications. Direct-acting solenoid valves are extensively applied in automation systems, pneumatic equipment, medical devices, food packaging machinery, and laboratory instruments. In industrial operations, they enable precise control of air or liquid pathways, ensuring greater system stability and safety. Global pneumatic direct operated solenoid valves include IMI Group, Emerson, CEME, B?rkert and SMC, etc. Global top five manufacturers hold a share over 30%. The largest market is Asia Pacific, has a share about 45%, followed by Europe and North America, with around 25% and 20% market share respectively. In terms of product, Three-way SV is the largest segment, with a share about 30%. And in terms of application, the largest application is Automation, has a share over 30%, followed by Transportation and Industrial, etc. Compared with pilot-operated solenoid valves, direct-operated models offer advantages such as compact design, rapid response, and suitability for low-pressure or zero-differential pressure conditions, making them increasingly popular in industries like medical equipment, food packaging, semiconductor manufacturing, and laboratory instrumentation. The expansion of renewable energy, environmental protection, and energy-efficient industries is also fueling demand for valves with higher reliability, corrosion resistance, and extended

service life. In particular, the medical and pharmaceutical sectors, which require high levels of cleanliness and precision, are driving innovation toward oil-free lubrication, low-power consumption, and miniaturized designs.

The global Pneumatic Direct Operated Solenoid Valves market size was estimated at USD 2683.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 3.60% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Pneumatic Direct Operated Solenoid Valves market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Pneumatic Direct Operated Solenoid Valves market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Pneumatic Direct Operated Solenoid Valves market.

Global Pneumatic Direct Operated Solenoid Valves Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their

product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

IMI Group
Emerson
CEME
Bürkert
SMC
MAC
CKD
Parker
Danfoss
Ingersoll-Rand

Market Segmentation (by Type)

Three-way SV
Four-way SV
Five-way SV
Others

Market Segmentation (by Application)

Automation
Transportation
Industrial
Others

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Pneumatic Direct Operated Solenoid Valves Market
Overview of the regional outlook of the Pneumatic Direct Operated Solenoid Valves Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Pneumatic Direct Operated Solenoid Valves Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and

restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Pneumatic Direct Operated Solenoid Valves, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change
This enables you to anticipate market changes to remain ahead of your competitors
You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents
The concise analysis, clear graph, and table format will enable you to pinpoint the

information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of Pneumatic Direct Operated Solenoid Valves

1.2 Key Market Segments

1.2.1 Pneumatic Direct Operated Solenoid Valves Segment by Type

1.2.2 Pneumatic Direct Operated Solenoid Valves Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 PNEUMATIC DIRECT OPERATED SOLENOID VALVES MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global Pneumatic Direct Operated Solenoid Valves Market Size (M USD) Estimates and Forecasts (2020-2035)

2.1.2 Global Pneumatic Direct Operated Solenoid Valves Sales Estimates and Forecasts (2020-2035)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 PNEUMATIC DIRECT OPERATED SOLENOID VALVES MARKET COMPETITIVE LANDSCAPE

3.1 Company Assessment Quadrant

3.2 Global Pneumatic Direct Operated Solenoid Valves Product Life Cycle

3.3 Global Pneumatic Direct Operated Solenoid Valves Sales by Manufacturers (2020-2025)

3.4 Global Pneumatic Direct Operated Solenoid Valves Revenue Market Share by Manufacturers (2020-2025)

3.5 Pneumatic Direct Operated Solenoid Valves Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.6 Global Pneumatic Direct Operated Solenoid Valves Average Price by Manufacturers (2020-2025)

- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Pneumatic Direct Operated Solenoid Valves Market Competitive Situation and Trends
 - 3.8.1 Pneumatic Direct Operated Solenoid Valves Market Concentration Rate
 - 3.8.2 Global 5 and 10 Largest Pneumatic Direct Operated Solenoid Valves Players Market Share by Revenue
 - 3.8.3 Mergers & Acquisitions, Expansion

4 PNEUMATIC DIRECT OPERATED SOLENOID VALVES INDUSTRY CHAIN ANALYSIS

- 4.1 Pneumatic Direct Operated Solenoid Valves Industry Chain Analysis
- 4.2 Market Overview of Key Raw Materials
- 4.3 Midstream Market Analysis
- 4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF PNEUMATIC DIRECT OPERATED SOLENOID VALVES MARKET

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Industry News
 - 5.4.1 New Product Developments
 - 5.4.2 Mergers & Acquisitions
 - 5.4.3 Expansions
 - 5.4.4 Collaboration/Supply Contracts
- 5.5 PEST Analysis
 - 5.5.1 Industry Policies Analysis
 - 5.5.2 Economic Environment Analysis
 - 5.5.3 Social Environment Analysis
 - 5.5.4 Technological Environment Analysis
- 5.6 Global Pneumatic Direct Operated Solenoid Valves Market Porter's Five Forces Analysis
 - 5.6.1 Global Trade Frictions
 - 5.6.2 U.S. Tariff Policy ? April 2025
 - 5.6.3 Global Trade Frictions and Their Impacts to Pneumatic Direct Operated Solenoid Valves Market
- 5.7 ESG Ratings of Leading Companies

6 PNEUMATIC DIRECT OPERATED SOLENOID VALVES MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global Pneumatic Direct Operated Solenoid Valves Sales Market Share by Type (2020-2025)
- 6.3 Global Pneumatic Direct Operated Solenoid Valves Market Size by Type (2020-2025)
- 6.4 Global Pneumatic Direct Operated Solenoid Valves Price by Type (2020-2025)

7 PNEUMATIC DIRECT OPERATED SOLENOID VALVES MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Pneumatic Direct Operated Solenoid Valves Market Sales by Application (2020-2025)
- 7.3 Global Pneumatic Direct Operated Solenoid Valves Market Size (M USD) by Application (2020-2025)
- 7.4 Global Pneumatic Direct Operated Solenoid Valves Sales Growth Rate by Application (2020-2025)

8 PNEUMATIC DIRECT OPERATED SOLENOID VALVES MARKET SALES BY REGION

- 8.1 Global Pneumatic Direct Operated Solenoid Valves Sales by Region
 - 8.1.1 Global Pneumatic Direct Operated Solenoid Valves Sales by Region
 - 8.1.2 Global Pneumatic Direct Operated Solenoid Valves Sales Market Share by Region
- 8.2 Global Pneumatic Direct Operated Solenoid Valves Market Size by Region
 - 8.2.1 Global Pneumatic Direct Operated Solenoid Valves Market Size by Region
 - 8.2.2 Global Pneumatic Direct Operated Solenoid Valves Market Size by Region
- 8.3 North America
 - 8.3.1 North America Pneumatic Direct Operated Solenoid Valves Sales by Country
 - 8.3.2 North America Pneumatic Direct Operated Solenoid Valves Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe Pneumatic Direct Operated Solenoid Valves Sales by Country

8.4.2 Europe Pneumatic Direct Operated Solenoid Valves Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

8.5.1 Asia Pacific Pneumatic Direct Operated Solenoid Valves Sales by Region

8.5.2 Asia Pacific Pneumatic Direct Operated Solenoid Valves Market Size by Region

8.5.3 China Market Overview

8.5.4 Japan Market Overview

8.5.5 South Korea Market Overview

8.5.6 India Market Overview

8.5.7 Southeast Asia Market Overview

8.6 South America

8.6.1 South America Pneumatic Direct Operated Solenoid Valves Sales by Country

8.6.2 South America Pneumatic Direct Operated Solenoid Valves Market Size by Country

8.6.3 Brazil Market Overview

8.6.4 Argentina Market Overview

8.6.5 Columbia Market Overview

8.7 Middle East and Africa

8.7.1 Middle East and Africa Pneumatic Direct Operated Solenoid Valves Sales by Region

8.7.2 Middle East and Africa Pneumatic Direct Operated Solenoid Valves Market Size by Region

8.7.3 Saudi Arabia Market Overview

8.7.4 UAE Market Overview

8.7.5 Egypt Market Overview

8.7.6 Nigeria Market Overview

8.7.7 South Africa Market Overview

9 PNEUMATIC DIRECT OPERATED SOLENOID VALVES MARKET PRODUCTION BY REGION

9.1 Global Production of Pneumatic Direct Operated Solenoid Valves by Region(2020-2025)

9.2 Global Pneumatic Direct Operated Solenoid Valves Revenue Market Share by Region (2020-2025)

9.3 Global Pneumatic Direct Operated Solenoid Valves Production, Revenue, Price and Gross Margin (2020-2025)

9.4 North America Pneumatic Direct Operated Solenoid Valves Production

9.4.1 North America Pneumatic Direct Operated Solenoid Valves Production Growth Rate (2020-2025)

9.4.2 North America Pneumatic Direct Operated Solenoid Valves Production, Revenue, Price and Gross Margin (2020-2025)

9.5 Europe Pneumatic Direct Operated Solenoid Valves Production

9.5.1 Europe Pneumatic Direct Operated Solenoid Valves Production Growth Rate (2020-2025)

9.5.2 Europe Pneumatic Direct Operated Solenoid Valves Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan Pneumatic Direct Operated Solenoid Valves Production (2020-2025)

9.6.1 Japan Pneumatic Direct Operated Solenoid Valves Production Growth Rate (2020-2025)

9.6.2 Japan Pneumatic Direct Operated Solenoid Valves Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China Pneumatic Direct Operated Solenoid Valves Production (2020-2025)

9.7.1 China Pneumatic Direct Operated Solenoid Valves Production Growth Rate (2020-2025)

9.7.2 China Pneumatic Direct Operated Solenoid Valves Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 IMI Group

10.1.1 IMI Group Basic Information

10.1.2 IMI Group Pneumatic Direct Operated Solenoid Valves Product Overview

10.1.3 IMI Group Pneumatic Direct Operated Solenoid Valves Product Market Performance

10.1.4 IMI Group Business Overview

10.1.5 IMI Group SWOT Analysis

10.1.6 IMI Group Recent Developments

10.2 Emerson

10.2.1 Emerson Basic Information

10.2.2 Emerson Pneumatic Direct Operated Solenoid Valves Product Overview

10.2.3 Emerson Pneumatic Direct Operated Solenoid Valves Product Market

Performance

- 10.2.4 Emerson Business Overview
- 10.2.5 Emerson SWOT Analysis
- 10.2.6 Emerson Recent Developments

10.3 CEME

- 10.3.1 CEME Basic Information
- 10.3.2 CEME Pneumatic Direct Operated Solenoid Valves Product Overview
- 10.3.3 CEME Pneumatic Direct Operated Solenoid Valves Product Market

Performance

- 10.3.4 CEME Business Overview
- 10.3.5 CEME SWOT Analysis
- 10.3.6 CEME Recent Developments

10.4 B?rkert

- 10.4.1 B?rkert Basic Information
- 10.4.2 B?rkert Pneumatic Direct Operated Solenoid Valves Product Overview
- 10.4.3 B?rkert Pneumatic Direct Operated Solenoid Valves Product Market

Performance

- 10.4.4 B?rkert Business Overview
- 10.4.5 B?rkert Recent Developments

10.5 SMC

- 10.5.1 SMC Basic Information
- 10.5.2 SMC Pneumatic Direct Operated Solenoid Valves Product Overview
- 10.5.3 SMC Pneumatic Direct Operated Solenoid Valves Product Market Performance
- 10.5.4 SMC Business Overview
- 10.5.5 SMC Recent Developments

10.6 MAC

- 10.6.1 MAC Basic Information
- 10.6.2 MAC Pneumatic Direct Operated Solenoid Valves Product Overview
- 10.6.3 MAC Pneumatic Direct Operated Solenoid Valves Product Market Performance
- 10.6.4 MAC Business Overview
- 10.6.5 MAC Recent Developments

10.7 CKD

- 10.7.1 CKD Basic Information
- 10.7.2 CKD Pneumatic Direct Operated Solenoid Valves Product Overview
- 10.7.3 CKD Pneumatic Direct Operated Solenoid Valves Product Market Performance
- 10.7.4 CKD Business Overview
- 10.7.5 CKD Recent Developments

10.8 Parker

- 10.8.1 Parker Basic Information

10.8.2 Parker Pneumatic Direct Operated Solenoid Valves Product Overview

10.8.3 Parker Pneumatic Direct Operated Solenoid Valves Product Market

Performance

10.8.4 Parker Business Overview

10.8.5 Parker Recent Developments

10.9 Danfoss

10.9.1 Danfoss Basic Information

10.9.2 Danfoss Pneumatic Direct Operated Solenoid Valves Product Overview

10.9.3 Danfoss Pneumatic Direct Operated Solenoid Valves Product Market

Performance

10.9.4 Danfoss Business Overview

10.9.5 Danfoss Recent Developments

10.10 Ingersoll-Rand

10.10.1 Ingersoll-Rand Basic Information

10.10.2 Ingersoll-Rand Pneumatic Direct Operated Solenoid Valves Product Overview

10.10.3 Ingersoll-Rand Pneumatic Direct Operated Solenoid Valves Product Market

Performance

10.10.4 Ingersoll-Rand Business Overview

10.10.5 Ingersoll-Rand Recent Developments

11 PNEUMATIC DIRECT OPERATED SOLENOID VALVES MARKET FORECAST BY REGION

11.1 Global Pneumatic Direct Operated Solenoid Valves Market Size Forecast

11.2 Global Pneumatic Direct Operated Solenoid Valves Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe Pneumatic Direct Operated Solenoid Valves Market Size Forecast by Country

11.2.3 Asia Pacific Pneumatic Direct Operated Solenoid Valves Market Size Forecast by Region

11.2.4 South America Pneumatic Direct Operated Solenoid Valves Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of Pneumatic Direct Operated Solenoid Valves by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

12.1 Global Pneumatic Direct Operated Solenoid Valves Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of Pneumatic Direct Operated Solenoid Valves by Type (2026-2035)

12.1.2 Global Pneumatic Direct Operated Solenoid Valves Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of Pneumatic Direct Operated Solenoid Valves by Type (2026-2035)

12.2 Global Pneumatic Direct Operated Solenoid Valves Market Forecast by Application (2026-2035)

12.2.1 Global Pneumatic Direct Operated Solenoid Valves Sales (K Units) Forecast by Application

12.2.2 Global Pneumatic Direct Operated Solenoid Valves Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global Pneumatic Direct Operated Solenoid Valves Market Size by Type (M USD)

Table 4. Global Pneumatic Direct Operated Solenoid Valves Market Size by Application

Table 5. Pneumatic Direct Operated Solenoid Valves Market Size Comparison by Region (M USD)

Table 6. Global Pneumatic Direct Operated Solenoid Valves Sales (K Units) by Manufacturers (2020-2025)

Table 7. Global Pneumatic Direct Operated Solenoid Valves Sales Market Share by Manufacturers (2020-2025)

Table 8. Global Pneumatic Direct Operated Solenoid Valves Revenue (M USD) by Manufacturers (2020-2025)

Table 9. Global Pneumatic Direct Operated Solenoid Valves Revenue Share by Manufacturers (2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Pneumatic Direct Operated Solenoid Valves as of 2025)

Table 11. Global Market Pneumatic Direct Operated Solenoid Valves Average Price (USD/Unit) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global Pneumatic Direct Operated Solenoid Valves Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Pneumatic Direct Operated Solenoid Valves Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 26. Global Pneumatic Direct Operated Solenoid Valves Sales by Type (K Units)

Table 27. Global Pneumatic Direct Operated Solenoid Valves Market Size by Type (M USD)

Table 28. Global Pneumatic Direct Operated Solenoid Valves Sales (K Units) by Type (2020-2025)

Table 29. Global Pneumatic Direct Operated Solenoid Valves Sales Market Share by Type (2020-2025)

Table 30. Global Pneumatic Direct Operated Solenoid Valves Market Size (M USD) by Type (2020-2025)

Table 31. Global Pneumatic Direct Operated Solenoid Valves Market Share by Type (2020-2025)

Table 32. Global Pneumatic Direct Operated Solenoid Valves Price (USD/Unit) by Type (2020-2025)

Table 33. Global Pneumatic Direct Operated Solenoid Valves Sales (K Units) by Application

Table 34. Global Pneumatic Direct Operated Solenoid Valves Market Size by Application

Table 35. Global Pneumatic Direct Operated Solenoid Valves Sales by Application (2020-2025) & (K Units)

Table 36. Global Pneumatic Direct Operated Solenoid Valves Sales Market Share by Application (2020-2025)

Table 37. Global Pneumatic Direct Operated Solenoid Valves Market Size by Application (2020-2025) & (M USD)

Table 38. Global Pneumatic Direct Operated Solenoid Valves Market Share by Application (2020-2025)

Table 39. Global Pneumatic Direct Operated Solenoid Valves Sales Growth Rate by Application (2020-2025)

Table 40. Global Pneumatic Direct Operated Solenoid Valves Sales by Region (2020-2025) & (K Units)

Table 41. Global Pneumatic Direct Operated Solenoid Valves Sales Market Share by Region (2020-2025)

Table 42. Global Pneumatic Direct Operated Solenoid Valves Market Size by Region (2020-2025) & (M USD)

Table 43. Global Pneumatic Direct Operated Solenoid Valves Market Size by Region (2020-2025)

Table 44. North America Pneumatic Direct Operated Solenoid Valves Sales by Country (2020-2025) & (K Units)

Table 45. North America Pneumatic Direct Operated Solenoid Valves Market Size by Country (2020-2025) & (M USD)

Table 46. Europe Pneumatic Direct Operated Solenoid Valves Sales by Country (2020-2025) & (K Units)

Table 47. Europe Pneumatic Direct Operated Solenoid Valves Market Size by Country (2020-2025) & (M USD)

Table 48. Asia Pacific Pneumatic Direct Operated Solenoid Valves Sales by Region (2020-2025) & (K Units)

Table 49. Asia Pacific Pneumatic Direct Operated Solenoid Valves Market Size by Region (2020-2025) & (M USD)

Table 50. South America Pneumatic Direct Operated Solenoid Valves Sales by Country (2020-2025) & (K Units)

Table 51. South America Pneumatic Direct Operated Solenoid Valves Market Size by Country (2020-2025) & (M USD)

Table 52. Middle East and Africa Pneumatic Direct Operated Solenoid Valves Sales by Region (2020-2025) & (K Units)

Table 53. Middle East and Africa Pneumatic Direct Operated Solenoid Valves Market Size by Region (2020-2025) & (M USD)

Table 54. Global Pneumatic Direct Operated Solenoid Valves Production (K Units) by Region(2020-2025)

Table 55. Global Pneumatic Direct Operated Solenoid Valves Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global Pneumatic Direct Operated Solenoid Valves Revenue Market Share by Region (2020-2025)

Table 57. Global Pneumatic Direct Operated Solenoid Valves Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. North America Pneumatic Direct Operated Solenoid Valves Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe Pneumatic Direct Operated Solenoid Valves Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan Pneumatic Direct Operated Solenoid Valves Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China Pneumatic Direct Operated Solenoid Valves Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. IMI Group Basic Information

Table 63. IMI Group Pneumatic Direct Operated Solenoid Valves Product Overview

Table 64. IMI Group Pneumatic Direct Operated Solenoid Valves Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. IMI Group Business Overview

Table 66. IMI Group SWOT Analysis

Table 67. IMI Group Recent Developments

Table 68. Emerson Basic Information
Table 69. Emerson Pneumatic Direct Operated Solenoid Valves Product Overview
Table 70. Emerson Pneumatic Direct Operated Solenoid Valves Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 71. Emerson Business Overview
Table 72. Emerson SWOT Analysis
Table 73. Emerson Recent Developments
Table 74. CEME Basic Information
Table 75. CEME Pneumatic Direct Operated Solenoid Valves Product Overview
Table 76. CEME Pneumatic Direct Operated Solenoid Valves Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 77. CEME Business Overview
Table 78. CEME SWOT Analysis
Table 79. CEME Recent Developments
Table 80. B?rkert Basic Information
Table 81. B?rkert Pneumatic Direct Operated Solenoid Valves Product Overview
Table 82. B?rkert Pneumatic Direct Operated Solenoid Valves Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 83. B?rkert Business Overview
Table 84. B?rkert Recent Developments
Table 85. SMC Basic Information
Table 86. SMC Pneumatic Direct Operated Solenoid Valves Product Overview
Table 87. SMC Pneumatic Direct Operated Solenoid Valves Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 88. SMC Business Overview
Table 89. SMC Recent Developments
Table 90. MAC Basic Information
Table 91. MAC Pneumatic Direct Operated Solenoid Valves Product Overview
Table 92. MAC Pneumatic Direct Operated Solenoid Valves Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 93. MAC Business Overview
Table 94. MAC Recent Developments
Table 95. CKD Basic Information
Table 96. CKD Pneumatic Direct Operated Solenoid Valves Product Overview
Table 97. CKD Pneumatic Direct Operated Solenoid Valves Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 98. CKD Business Overview
Table 99. CKD Recent Developments
Table 100. Parker Basic Information

Table 101. Parker Pneumatic Direct Operated Solenoid Valves Product Overview

Table 102. Parker Pneumatic Direct Operated Solenoid Valves Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 103. Parker Business Overview

Table 104. Parker Recent Developments

Table 105. Danfoss Basic Information

Table 106. Danfoss Pneumatic Direct Operated Solenoid Valves Product Overview

Table 107. Danfoss Pneumatic Direct Operated Solenoid Valves Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 108. Danfoss Business Overview

Table 109. Danfoss Recent Developments

Table 110. Ingersoll-Rand Basic Information

Table 111. Ingersoll-Rand Pneumatic Direct Operated Solenoid Valves Product Overview

Table 112. Ingersoll-Rand Pneumatic Direct Operated Solenoid Valves Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 113. Ingersoll-Rand Business Overview

Table 114. Ingersoll-Rand Recent Developments

Table 115. Global Pneumatic Direct Operated Solenoid Valves Sales Forecast by Region (2026-2035) & (K Units)

Table 116. Global Pneumatic Direct Operated Solenoid Valves Market Size Forecast by Region (2026-2035) & (M USD)

Table 117. North America Pneumatic Direct Operated Solenoid Valves Sales Forecast by Country (2026-2035) & (K Units)

Table 118. North America Pneumatic Direct Operated Solenoid Valves Market Size Forecast by Country (2026-2035) & (M USD)

Table 119. Europe Pneumatic Direct Operated Solenoid Valves Sales Forecast by Country (2026-2035) & (K Units)

Table 120. Europe Pneumatic Direct Operated Solenoid Valves Market Size Forecast by Country (2026-2035) & (M USD)

Table 121. Asia Pacific Pneumatic Direct Operated Solenoid Valves Sales Forecast by Region (2026-2035) & (K Units)

Table 122. Asia Pacific Pneumatic Direct Operated Solenoid Valves Market Size Forecast by Region (2026-2035) & (M USD)

Table 123. South America Pneumatic Direct Operated Solenoid Valves Sales Forecast by Country (2026-2035) & (K Units)

Table 124. South America Pneumatic Direct Operated Solenoid Valves Market Size Forecast by Country (2026-2035) & (M USD)

Table 125. Middle East and Africa Pneumatic Direct Operated Solenoid Valves Sales

Forecast by Country (2026-2035) & (Units)

Table 126. Middle East and Africa Pneumatic Direct Operated Solenoid Valves Market Size Forecast by Country (2026-2035) & (M USD)

Table 127. Global Pneumatic Direct Operated Solenoid Valves Sales Forecast by Type (2026-2035) & (K Units)

Table 128. Global Pneumatic Direct Operated Solenoid Valves Market Size Forecast by Type (2026-2035) & (M USD)

Table 129. Global Pneumatic Direct Operated Solenoid Valves Price Forecast by Type (2026-2035) & (USD/Unit)

Table 130. Global Pneumatic Direct Operated Solenoid Valves Sales (K Units) Forecast by Application (2026-2035)

Table 131. Global Pneumatic Direct Operated Solenoid Valves Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Pneumatic Direct Operated Solenoid Valves
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Pneumatic Direct Operated Solenoid Valves Market Size (M USD), 2025-2035
- Figure 5. Global Pneumatic Direct Operated Solenoid Valves Market Size (M USD) (2020-2035)
- Figure 6. Global Pneumatic Direct Operated Solenoid Valves Sales (K Units) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Pneumatic Direct Operated Solenoid Valves Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Pneumatic Direct Operated Solenoid Valves Product Life Cycle
- Figure 13. Pneumatic Direct Operated Solenoid Valves Sales Share by Manufacturers in 2025
- Figure 14. Global Pneumatic Direct Operated Solenoid Valves Revenue Share by Manufacturers in 2025
- Figure 15. Pneumatic Direct Operated Solenoid Valves Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Pneumatic Direct Operated Solenoid Valves Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Pneumatic Direct Operated Solenoid Valves Revenue in 2025
- Figure 18. Industry Chain Map of Pneumatic Direct Operated Solenoid Valves
- Figure 19. Global Pneumatic Direct Operated Solenoid Valves Market PEST Analysis
- Figure 20. Global Pneumatic Direct Operated Solenoid Valves Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)

Figure 26. Global Pneumatic Direct Operated Solenoid Valves Market Share by Type

Figure 27. Sales Market Share of Pneumatic Direct Operated Solenoid Valves by Type (2020-2025)

Figure 28. Sales Market Share of Pneumatic Direct Operated Solenoid Valves by Type in 2025

Figure 29. Market Share of Pneumatic Direct Operated Solenoid Valves by Type (2020-2025)

Figure 30. Market Share of Pneumatic Direct Operated Solenoid Valves by Type in 2025

Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 32. Global Pneumatic Direct Operated Solenoid Valves Market Share by Application

Figure 33. Global Pneumatic Direct Operated Solenoid Valves Sales Market Share by Application (2020-2025)

Figure 34. Global Pneumatic Direct Operated Solenoid Valves Sales Market Share by Application in 2025

Figure 35. Global Pneumatic Direct Operated Solenoid Valves Market Share by Application (2020-2025)

Figure 36. Global Pneumatic Direct Operated Solenoid Valves Market Share by Application in 2025

Figure 37. Global Pneumatic Direct Operated Solenoid Valves Sales Growth Rate by Application (2020-2025)

Figure 38. Global Pneumatic Direct Operated Solenoid Valves Sales Market Share by Region (2020-2025)

Figure 39. Global Pneumatic Direct Operated Solenoid Valves Market Size by Region (2020-2025)

Figure 40. North America Pneumatic Direct Operated Solenoid Valves Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America Pneumatic Direct Operated Solenoid Valves Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America Pneumatic Direct Operated Solenoid Valves Sales Market Share by Country in 2024

Figure 43. North America Pneumatic Direct Operated Solenoid Valves Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Pneumatic Direct Operated Solenoid Valves Market Size by Country in 2024

Figure 45. U.S. Pneumatic Direct Operated Solenoid Valves Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. Pneumatic Direct Operated Solenoid Valves Market Size and Growth

Rate (2020-2025) & (M USD)

Figure 47. Canada Pneumatic Direct Operated Solenoid Valves Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada Pneumatic Direct Operated Solenoid Valves Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Pneumatic Direct Operated Solenoid Valves Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Pneumatic Direct Operated Solenoid Valves Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Pneumatic Direct Operated Solenoid Valves Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Pneumatic Direct Operated Solenoid Valves Sales Market Share by Country in 2024

Figure 53. Europe Pneumatic Direct Operated Solenoid Valves Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Pneumatic Direct Operated Solenoid Valves Market Size by Country in 2024

Figure 55. Germany Pneumatic Direct Operated Solenoid Valves Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Pneumatic Direct Operated Solenoid Valves Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Pneumatic Direct Operated Solenoid Valves Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Pneumatic Direct Operated Solenoid Valves Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Pneumatic Direct Operated Solenoid Valves Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Pneumatic Direct Operated Solenoid Valves Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Pneumatic Direct Operated Solenoid Valves Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Pneumatic Direct Operated Solenoid Valves Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Pneumatic Direct Operated Solenoid Valves Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Pneumatic Direct Operated Solenoid Valves Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Pneumatic Direct Operated Solenoid Valves Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Pneumatic Direct Operated Solenoid Valves Sales Market Share by Region in 2024

Figure 67. Asia Pacific Pneumatic Direct Operated Solenoid Valves Market Size by Region in 2024

Figure 68. China Pneumatic Direct Operated Solenoid Valves Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Pneumatic Direct Operated Solenoid Valves Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Pneumatic Direct Operated Solenoid Valves Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Pneumatic Direct Operated Solenoid Valves Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Pneumatic Direct Operated Solenoid Valves Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Pneumatic Direct Operated Solenoid Valves Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Pneumatic Direct Operated Solenoid Valves Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Pneumatic Direct Operated Solenoid Valves Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Pneumatic Direct Operated Solenoid Valves Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Pneumatic Direct Operated Solenoid Valves Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Pneumatic Direct Operated Solenoid Valves Sales and Growth Rate (K Units)

Figure 79. South America Pneumatic Direct Operated Solenoid Valves Sales Market Share by Country in 2024

Figure 80. South America Pneumatic Direct Operated Solenoid Valves Market Size and Growth Rate (M USD)

Figure 81. South America Pneumatic Direct Operated Solenoid Valves Market Size by Country in 2024

Figure 82. Brazil Pneumatic Direct Operated Solenoid Valves Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Pneumatic Direct Operated Solenoid Valves Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Pneumatic Direct Operated Solenoid Valves Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Pneumatic Direct Operated Solenoid Valves Market Size and

Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Pneumatic Direct Operated Solenoid Valves Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Pneumatic Direct Operated Solenoid Valves Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Pneumatic Direct Operated Solenoid Valves Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Pneumatic Direct Operated Solenoid Valves Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Pneumatic Direct Operated Solenoid Valves Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Pneumatic Direct Operated Solenoid Valves Market Size by Region in 2024

Figure 92. Saudi Arabia Pneumatic Direct Operated Solenoid Valves Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Pneumatic Direct Operated Solenoid Valves Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Pneumatic Direct Operated Solenoid Valves Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Pneumatic Direct Operated Solenoid Valves Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Pneumatic Direct Operated Solenoid Valves Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Pneumatic Direct Operated Solenoid Valves Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Pneumatic Direct Operated Solenoid Valves Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Pneumatic Direct Operated Solenoid Valves Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Pneumatic Direct Operated Solenoid Valves Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Pneumatic Direct Operated Solenoid Valves Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Pneumatic Direct Operated Solenoid Valves Production Market Share by Region (2020-2025)

Figure 103. North America Pneumatic Direct Operated Solenoid Valves Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Pneumatic Direct Operated Solenoid Valves Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Pneumatic Direct Operated Solenoid Valves Production (K Units)
Growth Rate (2020-2025)

Figure 106. China Pneumatic Direct Operated Solenoid Valves Production (K Units)
Growth Rate (2020-2025)

Figure 107. Global Pneumatic Direct Operated Solenoid Valves Sales Forecast by
Volume (2020-2035) & (K Units)

Figure 108. Global Pneumatic Direct Operated Solenoid Valves Market Size Forecast
by Value (2020-2035) & (M USD)

Figure 109. Global Pneumatic Direct Operated Solenoid Valves Sales Market Share
Forecast by Type (2026-2035)

Figure 110. Global Pneumatic Direct Operated Solenoid Valves Market Share Forecast
by Type (2026-2035)

Figure 111. Global Pneumatic Direct Operated Solenoid Valves Sales Forecast by
Application (2026-2035)

Figure 112. Global Pneumatic Direct Operated Solenoid Valves Market Share Forecast
by Application (2026-2035)

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