

Global Direct-Acting Miniature Solenoid Valves Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Direct-Acting Miniature Solenoid Valves market size is expected to reach \$ 858 million by 2032, rising at a market growth of 4.4% CAGR during the forecast period (2026-2032).

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.

This report studies the global Direct-Acting Miniature Solenoid Valves production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Direct-Acting Miniature Solenoid Valves total production and demand, 2021-2032, (K Units)

Global Direct-Acting Miniature Solenoid Valves total production value, 2021-2032, (USD Million)

Global Direct-Acting Miniature Solenoid Valves production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Direct-Acting Miniature Solenoid Valves consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Direct-Acting Miniature Solenoid Valves domestic production, consumption, key domestic manufacturers and share

Global Direct-Acting Miniature Solenoid Valves production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Direct-Acting Miniature Solenoid Valves production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Direct?Acting Miniature Solenoid Valves production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Direct?Acting Miniature 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 Festo, SMC Corporation, Parker, Gevasol BV, B?rkert, Hydraquip, IMI Precision Engineering, CKD Corporation, KOGANEI, ASCO, 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 Direct?Acting Miniature Solenoid Valves market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 Direct?Acting Miniature Solenoid Valves Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Direct?Acting Miniature Solenoid Valves Market, Segmentation by Type:

2-Way

3-Way

Others

Global Direct?Acting Miniature Solenoid Valves Market, Segmentation by Control State:

Normally Open

Normally Closed

Global Direct?Acting Miniature Solenoid Valves Market, Segmentation by Pressure:

?0.1 MPa

0.1?0.7 MPa

?0.7 MPa

Global Direct?Acting Miniature Solenoid Valves Market, Segmentation by Application:

Medical Devices

Industrial Automation

Robotics

Semiconductor Equipment

Others

Companies Profiled:

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 Answered:

1. How big is the global Direct?Acting Miniature Solenoid Valves market?
2. What is the demand of the global Direct?Acting Miniature Solenoid Valves market?
3. What is the year over year growth of the global Direct?Acting Miniature Solenoid Valves market?
4. What is the production and production value of the global Direct?Acting Miniature Solenoid Valves market?
5. Who are the key producers in the global Direct?Acting Miniature Solenoid Valves market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Direct?Acting Miniature Solenoid Valves Introduction
- 1.2 World Direct?Acting Miniature Solenoid Valves Supply & Forecast
 - 1.2.1 World Direct?Acting Miniature Solenoid Valves Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Direct?Acting Miniature Solenoid Valves Production (2021-2032)
 - 1.2.3 World Direct?Acting Miniature Solenoid Valves Pricing Trends (2021-2032)
- 1.3 World Direct?Acting Miniature Solenoid Valves Production by Region (Based on Production Site)
 - 1.3.1 World Direct?Acting Miniature Solenoid Valves Production Value by Region (2021-2032)
 - 1.3.2 World Direct?Acting Miniature Solenoid Valves Production by Region (2021-2032)
 - 1.3.3 World Direct?Acting Miniature Solenoid Valves Average Price by Region (2021-2032)
 - 1.3.4 North America Direct?Acting Miniature Solenoid Valves Production (2021-2032)
 - 1.3.5 Europe Direct?Acting Miniature Solenoid Valves Production (2021-2032)
 - 1.3.6 China Direct?Acting Miniature Solenoid Valves Production (2021-2032)
 - 1.3.7 Japan Direct?Acting Miniature Solenoid Valves Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Direct?Acting Miniature Solenoid Valves Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Direct?Acting Miniature Solenoid Valves Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Direct?Acting Miniature Solenoid Valves Demand (2021-2032)
- 2.2 World Direct?Acting Miniature Solenoid Valves Consumption by Region
 - 2.2.1 World Direct?Acting Miniature Solenoid Valves Consumption by Region (2021-2026)
 - 2.2.2 World Direct?Acting Miniature Solenoid Valves Consumption Forecast by Region (2027-2032)
- 2.3 United States Direct?Acting Miniature Solenoid Valves Consumption (2021-2032)
- 2.4 China Direct?Acting Miniature Solenoid Valves Consumption (2021-2032)
- 2.5 Europe Direct?Acting Miniature Solenoid Valves Consumption (2021-2032)
- 2.6 Japan Direct?Acting Miniature Solenoid Valves Consumption (2021-2032)

- 2.7 South Korea Direct?Acting Miniature Solenoid Valves Consumption (2021-2032)
- 2.8 ASEAN Direct?Acting Miniature Solenoid Valves Consumption (2021-2032)
- 2.9 India Direct?Acting Miniature Solenoid Valves Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Direct?Acting Miniature Solenoid Valves Production Value by Manufacturer (2021-2026)
- 3.2 World Direct?Acting Miniature Solenoid Valves Production by Manufacturer (2021-2026)
- 3.3 World Direct?Acting Miniature Solenoid Valves Average Price by Manufacturer (2021-2026)
- 3.4 Direct?Acting Miniature Solenoid Valves Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Direct?Acting Miniature Solenoid Valves Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Direct?Acting Miniature Solenoid Valves in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Direct?Acting Miniature Solenoid Valves in 2025
- 3.6 Direct?Acting Miniature Solenoid Valves Market: Overall Company Footprint Analysis
 - 3.6.1 Direct?Acting Miniature Solenoid Valves Market: Region Footprint
 - 3.6.2 Direct?Acting Miniature Solenoid Valves Market: Company Product Type Footprint
 - 3.6.3 Direct?Acting Miniature Solenoid Valves Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Direct?Acting Miniature Solenoid Valves Production Value Comparison
 - 4.1.1 United States VS China: Direct?Acting Miniature Solenoid Valves Production

Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Direct?Acting Miniature Solenoid Valves Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Direct?Acting Miniature Solenoid Valves Production Comparison

4.2.1 United States VS China: Direct?Acting Miniature Solenoid Valves Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Direct?Acting Miniature Solenoid Valves Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Direct?Acting Miniature Solenoid Valves Consumption Comparison

4.3.1 United States VS China: Direct?Acting Miniature Solenoid Valves Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Direct?Acting Miniature Solenoid Valves Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Direct?Acting Miniature Solenoid Valves Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Direct?Acting Miniature Solenoid Valves Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Direct?Acting Miniature Solenoid Valves Production Value (2021-2026)

4.4.3 United States Based Manufacturers Direct?Acting Miniature Solenoid Valves Production (2021-2026)

4.5 China Based Direct?Acting Miniature Solenoid Valves Manufacturers and Market Share

4.5.1 China Based Direct?Acting Miniature Solenoid Valves Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Direct?Acting Miniature Solenoid Valves Production Value (2021-2026)

4.5.3 China Based Manufacturers Direct?Acting Miniature Solenoid Valves Production (2021-2026)

4.6 Rest of World Based Direct?Acting Miniature Solenoid Valves Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Direct?Acting Miniature Solenoid Valves Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Direct?Acting Miniature Solenoid Valves Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Direct?Acting Miniature Solenoid Valves Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Direct?Acting Miniature Solenoid Valves Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 2-Way

5.2.2 3-Way

5.2.3 Others

5.3 Market Segment by Type

5.3.1 World Direct?Acting Miniature Solenoid Valves Production by Type (2021-2032)

5.3.2 World Direct?Acting Miniature Solenoid Valves Production Value by Type (2021-2032)

5.3.3 World Direct?Acting Miniature Solenoid Valves Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY CONTROL STATE

6.1 World Direct?Acting Miniature Solenoid Valves Market Size Overview by Control State: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Control State

6.2.1 Normally Open

6.2.2 Normally Closed

6.3 Market Segment by Control State

6.3.1 World Direct?Acting Miniature Solenoid Valves Production by Control State (2021-2032)

6.3.2 World Direct?Acting Miniature Solenoid Valves Production Value by Control State (2021-2032)

6.3.3 World Direct?Acting Miniature Solenoid Valves Average Price by Control State (2021-2032)

7 MARKET ANALYSIS BY PRESSURE

7.1 World Direct?Acting Miniature Solenoid Valves Market Size Overview by Pressure: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Pressure

7.2.1 ?0.1 MPa

7.2.2 0.1?0.7 MPa

7.2.3 ?0.7 MPa

7.3 Market Segment by Pressure

7.3.1 World Direct?Acting Miniature Solenoid Valves Production by Pressure (2021-2032)

7.3.2 World Direct?Acting Miniature Solenoid Valves Production Value by Pressure (2021-2032)

7.3.3 World Direct?Acting Miniature Solenoid Valves Average Price by Pressure (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Direct?Acting Miniature Solenoid Valves Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Medical Devices

8.2.2 Industrial Automation

8.2.3 Robotics

8.2.4 Semiconductor Equipment

8.2.5 Others

8.3 Market Segment by Application

8.3.1 World Direct?Acting Miniature Solenoid Valves Production by Application (2021-2032)

8.3.2 World Direct?Acting Miniature Solenoid Valves Production Value by Application (2021-2032)

8.3.3 World Direct?Acting Miniature Solenoid Valves Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Festo

9.1.1 Festo Details

9.1.2 Festo Major Business

9.1.3 Festo Direct?Acting Miniature Solenoid Valves Product and Services

9.1.4 Festo Direct?Acting Miniature Solenoid Valves Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Festo Recent Developments/Updates

9.1.6 Festo Competitive Strengths & Weaknesses

9.2 SMC Corporation

9.2.1 SMC Corporation Details

9.2.2 SMC Corporation Major Business

- 9.2.3 SMC Corporation Direct?Acting Miniature Solenoid Valves Product and Services
- 9.2.4 SMC Corporation Direct?Acting Miniature Solenoid Valves Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.2.5 SMC Corporation Recent Developments/Updates
- 9.2.6 SMC Corporation Competitive Strengths & Weaknesses
- 9.3 Parker
 - 9.3.1 Parker Details
 - 9.3.2 Parker Major Business
 - 9.3.3 Parker Direct?Acting Miniature Solenoid Valves Product and Services
 - 9.3.4 Parker Direct?Acting Miniature Solenoid Valves Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Parker Recent Developments/Updates
 - 9.3.6 Parker Competitive Strengths & Weaknesses
- 9.4 Gevasol BV
 - 9.4.1 Gevasol BV Details
 - 9.4.2 Gevasol BV Major Business
 - 9.4.3 Gevasol BV Direct?Acting Miniature Solenoid Valves Product and Services
 - 9.4.4 Gevasol BV Direct?Acting Miniature Solenoid Valves Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Gevasol BV Recent Developments/Updates
 - 9.4.6 Gevasol BV Competitive Strengths & Weaknesses
- 9.5 B?rkert
 - 9.5.1 B?rkert Details
 - 9.5.2 B?rkert Major Business
 - 9.5.3 B?rkert Direct?Acting Miniature Solenoid Valves Product and Services
 - 9.5.4 B?rkert Direct?Acting Miniature Solenoid Valves Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 B?rkert Recent Developments/Updates
 - 9.5.6 B?rkert Competitive Strengths & Weaknesses
- 9.6 Hydraquip
 - 9.6.1 Hydraquip Details
 - 9.6.2 Hydraquip Major Business
 - 9.6.3 Hydraquip Direct?Acting Miniature Solenoid Valves Product and Services
 - 9.6.4 Hydraquip Direct?Acting Miniature Solenoid Valves Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Hydraquip Recent Developments/Updates
 - 9.6.6 Hydraquip Competitive Strengths & Weaknesses
- 9.7 IMI Precision Engineering
 - 9.7.1 IMI Precision Engineering Details

9.7.2 IMI Precision Engineering Major Business

9.7.3 IMI Precision Engineering Direct?Acting Miniature Solenoid Valves Product and Services

9.7.4 IMI Precision Engineering Direct?Acting Miniature Solenoid Valves Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 IMI Precision Engineering Recent Developments/Updates

9.7.6 IMI Precision Engineering Competitive Strengths & Weaknesses

9.8 CKD Corporation

9.8.1 CKD Corporation Details

9.8.2 CKD Corporation Major Business

9.8.3 CKD Corporation Direct?Acting Miniature Solenoid Valves Product and Services

9.8.4 CKD Corporation Direct?Acting Miniature Solenoid Valves Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 CKD Corporation Recent Developments/Updates

9.8.6 CKD Corporation Competitive Strengths & Weaknesses

9.9 KOGANEI

9.9.1 KOGANEI Details

9.9.2 KOGANEI Major Business

9.9.3 KOGANEI Direct?Acting Miniature Solenoid Valves Product and Services

9.9.4 KOGANEI Direct?Acting Miniature Solenoid Valves Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 KOGANEI Recent Developments/Updates

9.9.6 KOGANEI Competitive Strengths & Weaknesses

9.10 ASCO

9.10.1 ASCO Details

9.10.2 ASCO Major Business

9.10.3 ASCO Direct?Acting Miniature Solenoid Valves Product and Services

9.10.4 ASCO Direct?Acting Miniature Solenoid Valves Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 ASCO Recent Developments/Updates

9.10.6 ASCO Competitive Strengths & Weaknesses

9.11 Clippard

9.11.1 Clippard Details

9.11.2 Clippard Major Business

9.11.3 Clippard Direct?Acting Miniature Solenoid Valves Product and Services

9.11.4 Clippard Direct?Acting Miniature Solenoid Valves Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Clippard Recent Developments/Updates

9.11.6 Clippard Competitive Strengths & Weaknesses

9.12 Norgren

9.12.1 Norgren Details

9.12.2 Norgren Major Business

9.12.3 Norgren Direct?Acting Miniature Solenoid Valves Product and Services

9.12.4 Norgren Direct?Acting Miniature Solenoid Valves Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Norgren Recent Developments/Updates

9.12.6 Norgren Competitive Strengths & Weaknesses

9.13 Kendrion

9.13.1 Kendrion Details

9.13.2 Kendrion Major Business

9.13.3 Kendrion Direct?Acting Miniature Solenoid Valves Product and Services

9.13.4 Kendrion Direct?Acting Miniature Solenoid Valves Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 Kendrion Recent Developments/Updates

9.13.6 Kendrion Competitive Strengths & Weaknesses

9.14 The Lee Company

9.14.1 The Lee Company Details

9.14.2 The Lee Company Major Business

9.14.3 The Lee Company Direct?Acting Miniature Solenoid Valves Product and Services

9.14.4 The Lee Company Direct?Acting Miniature Solenoid Valves Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 The Lee Company Recent Developments/Updates

9.14.6 The Lee Company Competitive Strengths & Weaknesses

9.15 Airtac

9.15.1 Airtac Details

9.15.2 Airtac Major Business

9.15.3 Airtac Direct?Acting Miniature Solenoid Valves Product and Services

9.15.4 Airtac Direct?Acting Miniature Solenoid Valves Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 Airtac Recent Developments/Updates

9.15.6 Airtac Competitive Strengths & Weaknesses

9.16 Yitai Nuo

9.16.1 Yitai Nuo Details

9.16.2 Yitai Nuo Major Business

9.16.3 Yitai Nuo Direct?Acting Miniature Solenoid Valves Product and Services

9.16.4 Yitai Nuo Direct?Acting Miniature Solenoid Valves Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.16.5 Yitai Nuo Recent Developments/Updates
- 9.16.6 Yitai Nuo Competitive Strengths & Weaknesses
- 9.17 Xingchen Pneumatics
 - 9.17.1 Xingchen Pneumatics Details
 - 9.17.2 Xingchen Pneumatics Major Business
 - 9.17.3 Xingchen Pneumatics Direct?Acting Miniature Solenoid Valves Product and Services
 - 9.17.4 Xingchen Pneumatics Direct?Acting Miniature Solenoid Valves Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.17.5 Xingchen Pneumatics Recent Developments/Updates
 - 9.17.6 Xingchen Pneumatics Competitive Strengths & Weaknesses
- 9.18 Zhejiang Sanhua Intelligent Control
 - 9.18.1 Zhejiang Sanhua Intelligent Control Details
 - 9.18.2 Zhejiang Sanhua Intelligent Control Major Business
 - 9.18.3 Zhejiang Sanhua Intelligent Control Direct?Acting Miniature Solenoid Valves Product and Services
 - 9.18.4 Zhejiang Sanhua Intelligent Control Direct?Acting Miniature Solenoid Valves Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.18.5 Zhejiang Sanhua Intelligent Control Recent Developments/Updates
 - 9.18.6 Zhejiang Sanhua Intelligent Control Competitive Strengths & Weaknesses
- 9.19 Ningbo Xingyu Electronics
 - 9.19.1 Ningbo Xingyu Electronics Details
 - 9.19.2 Ningbo Xingyu Electronics Major Business
 - 9.19.3 Ningbo Xingyu Electronics Direct?Acting Miniature Solenoid Valves Product and Services
 - 9.19.4 Ningbo Xingyu Electronics Direct?Acting Miniature Solenoid Valves Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.19.5 Ningbo Xingyu Electronics Recent Developments/Updates
 - 9.19.6 Ningbo Xingyu Electronics Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Direct?Acting Miniature Solenoid Valves Industry Chain
- 10.2 Direct?Acting Miniature Solenoid Valves Upstream Analysis
 - 10.2.1 Direct?Acting Miniature Solenoid Valves Core Raw Materials
 - 10.2.2 Main Manufacturers of Direct?Acting Miniature Solenoid Valves Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis

10.5 Direct?Acting Miniature Solenoid Valves Production Mode

10.6 Direct?Acting Miniature Solenoid Valves Procurement Model

10.7 Direct?Acting Miniature Solenoid Valves Industry Sales Model and Sales Channels

10.7.1 Direct?Acting Miniature Solenoid Valves Sales Model

10.7.2 Direct?Acting Miniature Solenoid Valves Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Direct?Acting Miniature Solenoid Valves Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Direct?Acting Miniature Solenoid Valves Production Value by Region (2021-2026) & (USD Million)

Table 3. World Direct?Acting Miniature Solenoid Valves Production Value by Region (2027-2032) & (USD Million)

Table 4. World Direct?Acting Miniature Solenoid Valves Production Value Market Share by Region (2021-2026)

Table 5. World Direct?Acting Miniature Solenoid Valves Production Value Market Share by Region (2027-2032)

Table 6. World Direct?Acting Miniature Solenoid Valves Production by Region (2021-2026) & (K Units)

Table 7. World Direct?Acting Miniature Solenoid Valves Production by Region (2027-2032) & (K Units)

Table 8. World Direct?Acting Miniature Solenoid Valves Production Market Share by Region (2021-2026)

Table 9. World Direct?Acting Miniature Solenoid Valves Production Market Share by Region (2027-2032)

Table 10. World Direct?Acting Miniature Solenoid Valves Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Direct?Acting Miniature Solenoid Valves Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Direct?Acting Miniature Solenoid Valves Major Market Trends

Table 13. World Direct?Acting Miniature Solenoid Valves Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Direct?Acting Miniature Solenoid Valves Consumption by Region (2021-2026) & (K Units)

Table 15. World Direct?Acting Miniature Solenoid Valves Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Direct?Acting Miniature Solenoid Valves Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Direct?Acting Miniature Solenoid Valves Producers in 2025

Table 18. World Direct?Acting Miniature Solenoid Valves Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Direct?Acting Miniature Solenoid Valves Producers in 2025

Table 20. World Direct?Acting Miniature Solenoid Valves Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Direct?Acting Miniature Solenoid Valves Company Evaluation Quadrant

Table 22. World Direct?Acting Miniature Solenoid Valves Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Direct?Acting Miniature Solenoid Valves Production Site of Key Manufacturer

Table 24. Direct?Acting Miniature Solenoid Valves Market: Company Product Type Footprint

Table 25. Direct?Acting Miniature Solenoid Valves Market: Company Product Application Footprint

Table 26. Direct?Acting Miniature Solenoid Valves Competitive Factors

Table 27. Direct?Acting Miniature Solenoid Valves New Entrant and Capacity Expansion Plans

Table 28. Direct?Acting Miniature Solenoid Valves Mergers & Acquisitions Activity

Table 29. United States VS China Direct?Acting Miniature Solenoid Valves Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Direct?Acting Miniature Solenoid Valves Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Direct?Acting Miniature Solenoid Valves Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Direct?Acting Miniature Solenoid Valves Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Direct?Acting Miniature Solenoid Valves Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Direct?Acting Miniature Solenoid Valves Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Direct?Acting Miniature Solenoid Valves Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Direct?Acting Miniature Solenoid Valves Production Market Share (2021-2026)

Table 37. China Based Direct?Acting Miniature Solenoid Valves Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Direct?Acting Miniature Solenoid Valves Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Direct?Acting Miniature Solenoid Valves

Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Direct?Acting Miniature Solenoid Valves Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Direct?Acting Miniature Solenoid Valves Production Market Share (2021-2026)

Table 42. Rest of World Based Direct?Acting Miniature Solenoid Valves Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Direct?Acting Miniature Solenoid Valves Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Direct?Acting Miniature Solenoid Valves Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Direct?Acting Miniature Solenoid Valves Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Direct?Acting Miniature Solenoid Valves Production Market Share (2021-2026)

Table 47. World Direct?Acting Miniature Solenoid Valves Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Direct?Acting Miniature Solenoid Valves Production by Type (2021-2026) & (K Units)

Table 49. World Direct?Acting Miniature Solenoid Valves Production by Type (2027-2032) & (K Units)

Table 50. World Direct?Acting Miniature Solenoid Valves Production Value by Type (2021-2026) & (USD Million)

Table 51. World Direct?Acting Miniature Solenoid Valves Production Value by Type (2027-2032) & (USD Million)

Table 52. World Direct?Acting Miniature Solenoid Valves Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Direct?Acting Miniature Solenoid Valves Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Direct?Acting Miniature Solenoid Valves Production Value by Control State, (USD Million), 2021 & 2025 & 2032

Table 55. World Direct?Acting Miniature Solenoid Valves Production by Control State (2021-2026) & (K Units)

Table 56. World Direct?Acting Miniature Solenoid Valves Production by Control State (2027-2032) & (K Units)

Table 57. World Direct?Acting Miniature Solenoid Valves Production Value by Control State (2021-2026) & (USD Million)

Table 58. World Direct?Acting Miniature Solenoid Valves Production Value by Control State (2027-2032) & (USD Million)

Table 59. World Direct?Acting Miniature Solenoid Valves Average Price by Control State (2021-2026) & (US\$/Unit)

Table 60. World Direct?Acting Miniature Solenoid Valves Average Price by Control State (2027-2032) & (US\$/Unit)

Table 61. World Direct?Acting Miniature Solenoid Valves Production Value by Pressure, (USD Million), 2021 & 2025 & 2032

Table 62. World Direct?Acting Miniature Solenoid Valves Production by Pressure (2021-2026) & (K Units)

Table 63. World Direct?Acting Miniature Solenoid Valves Production by Pressure (2027-2032) & (K Units)

Table 64. World Direct?Acting Miniature Solenoid Valves Production Value by Pressure (2021-2026) & (USD Million)

Table 65. World Direct?Acting Miniature Solenoid Valves Production Value by Pressure (2027-2032) & (USD Million)

Table 66. World Direct?Acting Miniature Solenoid Valves Average Price by Pressure (2021-2026) & (US\$/Unit)

Table 67. World Direct?Acting Miniature Solenoid Valves Average Price by Pressure (2027-2032) & (US\$/Unit)

Table 68. World Direct?Acting Miniature Solenoid Valves Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Direct?Acting Miniature Solenoid Valves Production by Application (2021-2026) & (K Units)

Table 70. World Direct?Acting Miniature Solenoid Valves Production by Application (2027-2032) & (K Units)

Table 71. World Direct?Acting Miniature Solenoid Valves Production Value by Application (2021-2026) & (USD Million)

Table 72. World Direct?Acting Miniature Solenoid Valves Production Value by Application (2027-2032) & (USD Million)

Table 73. World Direct?Acting Miniature Solenoid Valves Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Direct?Acting Miniature Solenoid Valves Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Festo Basic Information, Manufacturing Base and Competitors

Table 76. Festo Major Business

Table 77. Festo Direct?Acting Miniature Solenoid Valves Product and Services

Table 78. Festo Direct?Acting Miniature Solenoid Valves Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Festo Recent Developments/Updates

Table 80. Festo Competitive Strengths & Weaknesses
Table 81. SMC Corporation Basic Information, Manufacturing Base and Competitors
Table 82. SMC Corporation Major Business
Table 83. SMC Corporation Direct?Acting Miniature Solenoid Valves Product and Services
Table 84. SMC Corporation Direct?Acting Miniature Solenoid Valves Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 85. SMC Corporation Recent Developments/Updates
Table 86. SMC Corporation Competitive Strengths & Weaknesses
Table 87. Parker Basic Information, Manufacturing Base and Competitors
Table 88. Parker Major Business
Table 89. Parker Direct?Acting Miniature Solenoid Valves Product and Services
Table 90. Parker Direct?Acting Miniature Solenoid Valves Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. Parker Recent Developments/Updates
Table 92. Parker Competitive Strengths & Weaknesses
Table 93. Gevasol BV Basic Information, Manufacturing Base and Competitors
Table 94. Gevasol BV Major Business
Table 95. Gevasol BV Direct?Acting Miniature Solenoid Valves Product and Services
Table 96. Gevasol BV Direct?Acting Miniature Solenoid Valves Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. Gevasol BV Recent Developments/Updates
Table 98. Gevasol BV Competitive Strengths & Weaknesses
Table 99. B?rkert Basic Information, Manufacturing Base and Competitors
Table 100. B?rkert Major Business
Table 101. B?rkert Direct?Acting Miniature Solenoid Valves Product and Services
Table 102. B?rkert Direct?Acting Miniature Solenoid Valves Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. B?rkert Recent Developments/Updates
Table 104. B?rkert Competitive Strengths & Weaknesses
Table 105. Hydraquip Basic Information, Manufacturing Base and Competitors
Table 106. Hydraquip Major Business
Table 107. Hydraquip Direct?Acting Miniature Solenoid Valves Product and Services
Table 108. Hydraquip Direct?Acting Miniature Solenoid Valves Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 109. Hydraquip Recent Developments/Updates

Table 110. Hydraquip Competitive Strengths & Weaknesses

Table 111. IMI Precision Engineering Basic Information, Manufacturing Base and Competitors

Table 112. IMI Precision Engineering Major Business

Table 113. IMI Precision Engineering Direct?Acting Miniature Solenoid Valves Product and Services

Table 114. IMI Precision Engineering Direct?Acting Miniature Solenoid Valves Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. IMI Precision Engineering Recent Developments/Updates

Table 116. IMI Precision Engineering Competitive Strengths & Weaknesses

Table 117. CKD Corporation Basic Information, Manufacturing Base and Competitors

Table 118. CKD Corporation Major Business

Table 119. CKD Corporation Direct?Acting Miniature Solenoid Valves Product and Services

Table 120. CKD Corporation Direct?Acting Miniature Solenoid Valves Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. CKD Corporation Recent Developments/Updates

Table 122. CKD Corporation Competitive Strengths & Weaknesses

Table 123. KOGANEI Basic Information, Manufacturing Base and Competitors

Table 124. KOGANEI Major Business

Table 125. KOGANEI Direct?Acting Miniature Solenoid Valves Product and Services

Table 126. KOGANEI Direct?Acting Miniature Solenoid Valves Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. KOGANEI Recent Developments/Updates

Table 128. KOGANEI Competitive Strengths & Weaknesses

Table 129. ASCO Basic Information, Manufacturing Base and Competitors

Table 130. ASCO Major Business

Table 131. ASCO Direct?Acting Miniature Solenoid Valves Product and Services

Table 132. ASCO Direct?Acting Miniature Solenoid Valves Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. ASCO Recent Developments/Updates

Table 134. ASCO Competitive Strengths & Weaknesses

Table 135. Clippard Basic Information, Manufacturing Base and Competitors

Table 136. Clippard Major Business

Table 137. Clippard Direct?Acting Miniature Solenoid Valves Product and Services

Table 138. Clippard Direct?Acting Miniature Solenoid Valves Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Clippard Recent Developments/Updates

Table 140. Clippard Competitive Strengths & Weaknesses

Table 141. Norgren Basic Information, Manufacturing Base and Competitors

Table 142. Norgren Major Business

Table 143. Norgren Direct?Acting Miniature Solenoid Valves Product and Services

Table 144. Norgren Direct?Acting Miniature Solenoid Valves Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Norgren Recent Developments/Updates

Table 146. Norgren Competitive Strengths & Weaknesses

Table 147. Kendrion Basic Information, Manufacturing Base and Competitors

Table 148. Kendrion Major Business

Table 149. Kendrion Direct?Acting Miniature Solenoid Valves Product and Services

Table 150. Kendrion Direct?Acting Miniature Solenoid Valves Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Kendrion Recent Developments/Updates

Table 152. Kendrion Competitive Strengths & Weaknesses

Table 153. The Lee Company Basic Information, Manufacturing Base and Competitors

Table 154. The Lee Company Major Business

Table 155. The Lee Company Direct?Acting Miniature Solenoid Valves Product and Services

Table 156. The Lee Company Direct?Acting Miniature Solenoid Valves Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. The Lee Company Recent Developments/Updates

Table 158. The Lee Company Competitive Strengths & Weaknesses

Table 159. Airtac Basic Information, Manufacturing Base and Competitors

Table 160. Airtac Major Business

Table 161. Airtac Direct?Acting Miniature Solenoid Valves Product and Services

Table 162. Airtac Direct?Acting Miniature Solenoid Valves Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Airtac Recent Developments/Updates

Table 164. Airtac Competitive Strengths & Weaknesses

Table 165. Yitai Nuo Basic Information, Manufacturing Base and Competitors

Table 166. Yitai Nuo Major Business

Table 167. Yitai Nuo Direct?Acting Miniature Solenoid Valves Product and Services

Table 168. Yitai Nuo Direct?Acting Miniature Solenoid Valves Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Yitai Nuo Recent Developments/Updates

Table 170. Yitai Nuo Competitive Strengths & Weaknesses

Table 171. Xingchen Pneumatics Basic Information, Manufacturing Base and Competitors

Table 172. Xingchen Pneumatics Major Business

Table 173. Xingchen Pneumatics Direct?Acting Miniature Solenoid Valves Product and Services

Table 174. Xingchen Pneumatics Direct?Acting Miniature Solenoid Valves Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. Xingchen Pneumatics Recent Developments/Updates

Table 176. Xingchen Pneumatics Competitive Strengths & Weaknesses

Table 177. Zhejiang Sanhua Intelligent Control Basic Information, Manufacturing Base and Competitors

Table 178. Zhejiang Sanhua Intelligent Control Major Business

Table 179. Zhejiang Sanhua Intelligent Control Direct?Acting Miniature Solenoid Valves Product and Services

Table 180. Zhejiang Sanhua Intelligent Control Direct?Acting Miniature Solenoid Valves Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 181. Zhejiang Sanhua Intelligent Control Recent Developments/Updates

Table 182. Zhejiang Sanhua Intelligent Control Competitive Strengths & Weaknesses

Table 183. Ningbo Xingyu Electronics Basic Information, Manufacturing Base and Competitors

Table 184. Ningbo Xingyu Electronics Major Business

Table 185. Ningbo Xingyu Electronics Direct?Acting Miniature Solenoid Valves Product and Services

Table 186. Ningbo Xingyu Electronics Direct?Acting Miniature Solenoid Valves Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 187. Ningbo Xingyu Electronics Recent Developments/Updates

Table 188. Ningbo Xingyu Electronics Competitive Strengths & Weaknesses

Table 189. Global Key Players of Direct?Acting Miniature Solenoid Valves Upstream
(Raw Materials)

Table 190. Global Direct?Acting Miniature Solenoid Valves Typical Customers

Table 191. Direct?Acting Miniature Solenoid Valves Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Direct?Acting Miniature Solenoid Valves Picture

Figure 2. World Direct?Acting Miniature Solenoid Valves Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Direct?Acting Miniature Solenoid Valves Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Direct?Acting Miniature Solenoid Valves Production (2021-2032) & (K Units)

Figure 5. World Direct?Acting Miniature Solenoid Valves Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Direct?Acting Miniature Solenoid Valves Production Value Market Share by Region (2021-2032)

Figure 7. World Direct?Acting Miniature Solenoid Valves Production Market Share by Region (2021-2032)

Figure 8. North America Direct?Acting Miniature Solenoid Valves Production (2021-2032) & (K Units)

Figure 9. Europe Direct?Acting Miniature Solenoid Valves Production (2021-2032) & (K Units)

Figure 10. China Direct?Acting Miniature Solenoid Valves Production (2021-2032) & (K Units)

Figure 11. Japan Direct?Acting Miniature Solenoid Valves Production (2021-2032) & (K Units)

Figure 12. Direct?Acting Miniature Solenoid Valves Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Direct?Acting Miniature Solenoid Valves Consumption (2021-2032) & (K Units)

Figure 15. World Direct?Acting Miniature Solenoid Valves Consumption Market Share by Region (2021-2032)

Figure 16. United States Direct?Acting Miniature Solenoid Valves Consumption (2021-2032) & (K Units)

Figure 17. China Direct?Acting Miniature Solenoid Valves Consumption (2021-2032) & (K Units)

Figure 18. Europe Direct?Acting Miniature Solenoid Valves Consumption (2021-2032) & (K Units)

Figure 19. Japan Direct?Acting Miniature Solenoid Valves Consumption (2021-2032) & (K Units)

Figure 20. South Korea Direct?Acting Miniature Solenoid Valves Consumption (2021-2032) & (K Units)

Figure 21. ASEAN Direct?Acting Miniature Solenoid Valves Consumption (2021-2032) & (K Units)

Figure 22. India Direct?Acting Miniature Solenoid Valves Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of Direct?Acting Miniature Solenoid Valves by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Direct?Acting Miniature Solenoid Valves Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Direct?Acting Miniature Solenoid Valves Markets in 2025

Figure 26. United States VS China: Direct?Acting Miniature Solenoid Valves Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Direct?Acting Miniature Solenoid Valves Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Direct?Acting Miniature Solenoid Valves Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Direct?Acting Miniature Solenoid Valves Production Market Share 2025

Figure 30. China Based Manufacturers Direct?Acting Miniature Solenoid Valves Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Direct?Acting Miniature Solenoid Valves Production Market Share 2025

Figure 32. World Direct?Acting Miniature Solenoid Valves Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Direct?Acting Miniature Solenoid Valves Production Value Market Share by Type in 2025

Figure 34. 2-Way

Figure 35. 3-Way

Figure 36. Others

Figure 37. World Direct?Acting Miniature Solenoid Valves Production Market Share by Type (2021-2032)

Figure 38. World Direct?Acting Miniature Solenoid Valves Production Value Market Share by Type (2021-2032)

Figure 39. World Direct?Acting Miniature Solenoid Valves Average Price by Type (2021-2032) & (US\$/Unit)

Figure 40. World Direct?Acting Miniature Solenoid Valves Production Value by Control State, (USD Million), 2021 & 2025 & 2032

Figure 41. World Direct?Acting Miniature Solenoid Valves Production Value Market Share by Control State in 2025

Figure 42. Normally Open

Figure 43. Normally Closed

Figure 44. World Direct?Acting Miniature Solenoid Valves Production Market Share by Control State (2021-2032)

Figure 45. World Direct?Acting Miniature Solenoid Valves Production Value Market Share by Control State (2021-2032)

Figure 46. World Direct?Acting Miniature Solenoid Valves Average Price by Control State (2021-2032) & (US\$/Unit)

Figure 47. World Direct?Acting Miniature Solenoid Valves Production Value by Pressure, (USD Million), 2021 & 2025 & 2032

Figure 48. World Direct?Acting Miniature Solenoid Valves Production Value Market Share by Pressure in 2025

Figure 49. ?0.1 MPa

Figure 50. 0.1?0.7 MPa

Figure 51. ?0.7 MPa

Figure 52. World Direct?Acting Miniature Solenoid Valves Production Market Share by Pressure (2021-2032)

Figure 53. World Direct?Acting Miniature Solenoid Valves Production Value Market Share by Pressure (2021-2032)

Figure 54. World Direct?Acting Miniature Solenoid Valves Average Price by Pressure (2021-2032) & (US\$/Unit)

Figure 55. World Direct?Acting Miniature Solenoid Valves Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 56. World Direct?Acting Miniature Solenoid Valves Production Value Market Share by Application in 2025

Figure 57. Medical Devices

Figure 58. Industrial Automation

Figure 59. Robotics

Figure 60. Semiconductor Equipment

Figure 61. Others

Figure 62. World Direct?Acting Miniature Solenoid Valves Production Market Share by Application (2021-2032)

Figure 63. World Direct?Acting Miniature Solenoid Valves Production Value Market Share by Application (2021-2032)

Figure 64. World Direct?Acting Miniature Solenoid Valves Average Price by Application (2021-2032) & (US\$/Unit)

Figure 65. Direct?Acting Miniature Solenoid Valves Industry Chain

Figure 66. Direct?Acting Miniature Solenoid Valves Procurement Model

Figure 67. Direct?Acting Miniature Solenoid Valves Sales Model

Figure 68. Direct?Acting Miniature Solenoid Valves Sales Channels, Direct Sales, and Distribution

Figure 69. Methodology

Figure 70. Research Process and Data Source

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