

Global Hydrogen OTV Solenoid Valve Market Growth 2026-2032

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Abstracts

The global Hydrogen OTV Solenoid Valve market size is predicted to grow from US\$ 234 million in 2025 to US\$ 1166 million in 2032; it is expected to grow at a CAGR of 25.9% from 2026 to 2032.

In 2025, global Hydrogen OTV Solenoid Valve production reached approximately 1195 k units with an average global market price of around US\$200 per unit. Single-line annual production capacity averages 35 k units with a gross margin of approximately 22%. The upstream of the Hydrogen OTV Solenoid Valve industry primarily involves areas such as precise metal processing, electronic components, and electromagnetic technology. The downstream applications include approximately 65% for hydrogen fuel cell systems, 30% for oxygen/hydrogen storage and control systems, and about 5% for other high-pressure fluid control systems. The market demand for Hydrogen OTV Solenoid Valves is continuously growing, driven by the rapid development of the hydrogen energy industry, particularly with the promotion of hydrogen fuel cell vehicles, which has led to an increasing demand for electromagnetically operated valves with high precision and rapid response times. The market opportunities for Hydrogen OTV Solenoid Valves are substantial, especially as the infrastructure for hydrogen energy is improved and applications are expanded. The market is poised for a period of rapid growth, and technological innovation as well as supply chain optimization will be crucial for enterprises to seize these opportunities.

The Hydrogen OTV Solenoid Valve is engineered to provide precise control over the release of hydrogen gas from storage tanks, featuring a robust design that can withstand the specific properties of hydrogen, such as its low ignition temperature and high flammability. The valve is equipped with advanced safety features that prevent any accidental release of hydrogen, ensuring compliance with stringent safety standards. It

operates efficiently in various environmental conditions, maintaining optimal performance even under extreme temperatures and pressures. The valve's compact size and lightweight construction make it ideal for integration into hydrogen storage systems, where it plays a crucial role in regulating the flow of hydrogen gas, contributing to the overall reliability and safety of the system.

United States market for Hydrogen OTV Solenoid Valve is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Hydrogen OTV Solenoid Valve is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Hydrogen OTV Solenoid Valve is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Hydrogen OTV Solenoid Valve players cover Hilite International, Bosch, Hamai Industries, Pacific Industrial, Poppe + Potthoff, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

This Insight Report provides a comprehensive analysis of the global Hydrogen OTV Solenoid Valve landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Hydrogen OTV Solenoid Valve portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Hydrogen OTV Solenoid Valve market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Hydrogen OTV Solenoid Valve and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-

up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Hydrogen OTV Solenoid Valve.

This report presents a comprehensive overview, market shares, and growth opportunities of Hydrogen OTV Solenoid Valve market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

35MPa OTV Valve

70MPa OTV Valve

Segmentation by Material:

Stainless Steel

Aluminum

Others

Segmentation by Application:

Hydrogen Fuel Cell System

Oxygen/Hydrogen Storage and Control System

Other High-pressure Fluid Control Systems

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Hilite International

Bosch

Hamai Industries

Pacific Industrial

Poppe + Potthoff

Teesing

GFI Control Systems

Luxfer

OMB Saleri

VOSS

Shanghai Weishi Energy Technology

Shanghai Shunhua New Energy System

Hanhydrogen Power (Zhuhai) Technology

Zhangjiagang Furui Special Equipment

Suzhou Qipan Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Hydrogen OTV Solenoid Valve market?

What factors are driving Hydrogen OTV Solenoid Valve market growth, globally and by region?

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

How do Hydrogen OTV Solenoid Valve market opportunities vary by end market size?

How does Hydrogen OTV Solenoid Valve break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Hydrogen OTV Solenoid Valve Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Hydrogen OTV Solenoid Valve by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Hydrogen OTV Solenoid Valve by Country/Region, 2021, 2025 & 2032

2.2 Hydrogen OTV Solenoid Valve Segment by Type

- 2.2.1 35MPa OTV Valve
- 2.2.2 70MPa OTV Valve
- 2.2.3 Hydrogen OTV Solenoid Valve Sales by Type
 - 2.2.3.1 Global Hydrogen OTV Solenoid Valve Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global Hydrogen OTV Solenoid Valve Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global Hydrogen OTV Solenoid Valve Sale Price by Type (2021-2026)

2.3 Hydrogen OTV Solenoid Valve Segment by Material

- 2.3.1 Stainless Steel
- 2.3.2 Aluminum
- 2.3.3 Others
- 2.3.4 Hydrogen OTV Solenoid Valve Sales by Material
 - 2.3.4.1 Global Hydrogen OTV Solenoid Valve Sales Market Share by Material (2021-2026)
 - 2.3.4.2 Global Hydrogen OTV Solenoid Valve Revenue and Market Share by Material (2021-2026)

- 2.3.4.3 Global Hydrogen OTV Solenoid Valve Sale Price by Material (2021-2026)
- 2.4 Hydrogen OTV Solenoid Valve Segment by Application
 - 2.4.1 Hydrogen Fuel Cell System
 - 2.4.2 Oxygen/Hydrogen Storage and Control System
 - 2.4.3 Other High-pressure Fluid Control Systems
 - 2.4.4 Hydrogen OTV Solenoid Valve Sales by Application
 - 2.4.4.1 Global Hydrogen OTV Solenoid Valve Sale Market Share by Application (2021-2026)
 - 2.4.4.2 Global Hydrogen OTV Solenoid Valve Revenue and Market Share by Application (2021-2026)
 - 2.4.4.3 Global Hydrogen OTV Solenoid Valve Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

- 3.1 Global Hydrogen OTV Solenoid Valve Breakdown Data by Company
 - 3.1.1 Global Hydrogen OTV Solenoid Valve Annual Sales by Company (2021-2026)
 - 3.1.2 Global Hydrogen OTV Solenoid Valve Sales Market Share by Company (2021-2026)
- 3.2 Global Hydrogen OTV Solenoid Valve Annual Revenue by Company (2021-2026)
 - 3.2.1 Global Hydrogen OTV Solenoid Valve Revenue by Company (2021-2026)
 - 3.2.2 Global Hydrogen OTV Solenoid Valve Revenue Market Share by Company (2021-2026)
- 3.3 Global Hydrogen OTV Solenoid Valve Sale Price by Company
- 3.4 Key Manufacturers Hydrogen OTV Solenoid Valve Producing Area Distribution, Sales Area, Product Type
 - 3.4.1 Key Manufacturers Hydrogen OTV Solenoid Valve Product Location Distribution
 - 3.4.2 Players Hydrogen OTV Solenoid Valve Products Offered
- 3.5 Market Concentration Rate Analysis
 - 3.5.1 Competition Landscape Analysis
 - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR HYDROGEN OTV SOLENOID VALVE BY GEOGRAPHIC REGION

- 4.1 World Historic Hydrogen OTV Solenoid Valve Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global Hydrogen OTV Solenoid Valve Annual Sales by Geographic Region

(2021-2026)

4.1.2 Global Hydrogen OTV Solenoid Valve Annual Revenue by Geographic Region

(2021-2026)

4.2 World Historic Hydrogen OTV Solenoid Valve Market Size by Country/Region

(2021-2026)

4.2.1 Global Hydrogen OTV Solenoid Valve Annual Sales by Country/Region

(2021-2026)

4.2.2 Global Hydrogen OTV Solenoid Valve Annual Revenue by Country/Region

(2021-2026)

4.3 Americas Hydrogen OTV Solenoid Valve Sales Growth

4.4 APAC Hydrogen OTV Solenoid Valve Sales Growth

4.5 Europe Hydrogen OTV Solenoid Valve Sales Growth

4.6 Middle East & Africa Hydrogen OTV Solenoid Valve Sales Growth

5 AMERICAS

5.1 Americas Hydrogen OTV Solenoid Valve Sales by Country

5.1.1 Americas Hydrogen OTV Solenoid Valve Sales by Country (2021-2026)

5.1.2 Americas Hydrogen OTV Solenoid Valve Revenue by Country (2021-2026)

5.2 Americas Hydrogen OTV Solenoid Valve Sales by Type (2021-2026)

5.3 Americas Hydrogen OTV Solenoid Valve Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Hydrogen OTV Solenoid Valve Sales by Region

6.1.1 APAC Hydrogen OTV Solenoid Valve Sales by Region (2021-2026)

6.1.2 APAC Hydrogen OTV Solenoid Valve Revenue by Region (2021-2026)

6.2 APAC Hydrogen OTV Solenoid Valve Sales by Type (2021-2026)

6.3 APAC Hydrogen OTV Solenoid Valve Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Hydrogen OTV Solenoid Valve by Country

7.1.1 Europe Hydrogen OTV Solenoid Valve Sales by Country (2021-2026)

7.1.2 Europe Hydrogen OTV Solenoid Valve Revenue by Country (2021-2026)

7.2 Europe Hydrogen OTV Solenoid Valve Sales by Type (2021-2026)

7.3 Europe Hydrogen OTV Solenoid Valve Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Hydrogen OTV Solenoid Valve by Country

8.1.1 Middle East & Africa Hydrogen OTV Solenoid Valve Sales by Country (2021-2026)

8.1.2 Middle East & Africa Hydrogen OTV Solenoid Valve Revenue by Country (2021-2026)

8.2 Middle East & Africa Hydrogen OTV Solenoid Valve Sales by Type (2021-2026)

8.3 Middle East & Africa Hydrogen OTV Solenoid Valve Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of Hydrogen OTV Solenoid Valve
- 10.3 Manufacturing Process Analysis of Hydrogen OTV Solenoid Valve
- 10.4 Industry Chain Structure of Hydrogen OTV Solenoid Valve

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 Hydrogen OTV Solenoid Valve Distributors
- 11.3 Hydrogen OTV Solenoid Valve Customer

12 WORLD FORECAST REVIEW FOR HYDROGEN OTV SOLENOID VALVE BY GEOGRAPHIC REGION

- 12.1 Global Hydrogen OTV Solenoid Valve Market Size Forecast by Region
 - 12.1.1 Global Hydrogen OTV Solenoid Valve Forecast by Region (2027-2032)
 - 12.1.2 Global Hydrogen OTV Solenoid Valve Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Hydrogen OTV Solenoid Valve Forecast by Type (2027-2032)
- 12.7 Global Hydrogen OTV Solenoid Valve Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

- 13.1 Hilite International
 - 13.1.1 Hilite International Company Information
 - 13.1.2 Hilite International Hydrogen OTV Solenoid Valve Product Portfolios and Specifications
 - 13.1.3 Hilite International Hydrogen OTV Solenoid Valve Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.1.4 Hilite International Main Business Overview
 - 13.1.5 Hilite International Latest Developments
- 13.2 Bosch
 - 13.2.1 Bosch Company Information

- 13.2.2 Bosch Hydrogen OTV Solenoid Valve Product Portfolios and Specifications
- 13.2.3 Bosch Hydrogen OTV Solenoid Valve Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.2.4 Bosch Main Business Overview
- 13.2.5 Bosch Latest Developments
- 13.3 Hamai Industries
 - 13.3.1 Hamai Industries Company Information
 - 13.3.2 Hamai Industries Hydrogen OTV Solenoid Valve Product Portfolios and Specifications
 - 13.3.3 Hamai Industries Hydrogen OTV Solenoid Valve Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.3.4 Hamai Industries Main Business Overview
 - 13.3.5 Hamai Industries Latest Developments
- 13.4 Pacific Industrial
 - 13.4.1 Pacific Industrial Company Information
 - 13.4.2 Pacific Industrial Hydrogen OTV Solenoid Valve Product Portfolios and Specifications
 - 13.4.3 Pacific Industrial Hydrogen OTV Solenoid Valve Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 Pacific Industrial Main Business Overview
 - 13.4.5 Pacific Industrial Latest Developments
- 13.5 Poppe + Potthoff
 - 13.5.1 Poppe + Potthoff Company Information
 - 13.5.2 Poppe + Potthoff Hydrogen OTV Solenoid Valve Product Portfolios and Specifications
 - 13.5.3 Poppe + Potthoff Hydrogen OTV Solenoid Valve Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Poppe + Potthoff Main Business Overview
 - 13.5.5 Poppe + Potthoff Latest Developments
- 13.6 Teesing
 - 13.6.1 Teesing Company Information
 - 13.6.2 Teesing Hydrogen OTV Solenoid Valve Product Portfolios and Specifications
 - 13.6.3 Teesing Hydrogen OTV Solenoid Valve Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 Teesing Main Business Overview
 - 13.6.5 Teesing Latest Developments
- 13.7 GFI Control Systems
 - 13.7.1 GFI Control Systems Company Information
 - 13.7.2 GFI Control Systems Hydrogen OTV Solenoid Valve Product Portfolios and

Specifications

13.7.3 GFI Control Systems Hydrogen OTV Solenoid Valve Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 GFI Control Systems Main Business Overview

13.7.5 GFI Control Systems Latest Developments

13.8 Luxfer

13.8.1 Luxfer Company Information

13.8.2 Luxfer Hydrogen OTV Solenoid Valve Product Portfolios and Specifications

13.8.3 Luxfer Hydrogen OTV Solenoid Valve Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Luxfer Main Business Overview

13.8.5 Luxfer Latest Developments

13.9 OMB Saleri

13.9.1 OMB Saleri Company Information

13.9.2 OMB Saleri Hydrogen OTV Solenoid Valve Product Portfolios and

Specifications

13.9.3 OMB Saleri Hydrogen OTV Solenoid Valve Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 OMB Saleri Main Business Overview

13.9.5 OMB Saleri Latest Developments

13.10 VOSS

13.10.1 VOSS Company Information

13.10.2 VOSS Hydrogen OTV Solenoid Valve Product Portfolios and Specifications

13.10.3 VOSS Hydrogen OTV Solenoid Valve Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 VOSS Main Business Overview

13.10.5 VOSS Latest Developments

13.11 Shanghai Weishi Energy Technology

13.11.1 Shanghai Weishi Energy Technology Company Information

13.11.2 Shanghai Weishi Energy Technology Hydrogen OTV Solenoid Valve Product Portfolios and Specifications

13.11.3 Shanghai Weishi Energy Technology Hydrogen OTV Solenoid Valve Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Shanghai Weishi Energy Technology Main Business Overview

13.11.5 Shanghai Weishi Energy Technology Latest Developments

13.12 Shanghai Shunhua New Energy System

13.12.1 Shanghai Shunhua New Energy System Company Information

13.12.2 Shanghai Shunhua New Energy System Hydrogen OTV Solenoid Valve Product Portfolios and Specifications

13.12.3 Shanghai Shunhua New Energy System Hydrogen OTV Solenoid Valve Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Shanghai Shunhua New Energy System Main Business Overview

13.12.5 Shanghai Shunhua New Energy System Latest Developments

13.13 Hanhydrogen Power (Zhuhai) Technology

13.13.1 Hanhydrogen Power (Zhuhai) Technology Company Information

13.13.2 Hanhydrogen Power (Zhuhai) Technology Hydrogen OTV Solenoid Valve Product Portfolios and Specifications

13.13.3 Hanhydrogen Power (Zhuhai) Technology Hydrogen OTV Solenoid Valve Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 Hanhydrogen Power (Zhuhai) Technology Main Business Overview

13.13.5 Hanhydrogen Power (Zhuhai) Technology Latest Developments

13.14 Zhangjiagang Furui Special Equipment

13.14.1 Zhangjiagang Furui Special Equipment Company Information

13.14.2 Zhangjiagang Furui Special Equipment Hydrogen OTV Solenoid Valve Product Portfolios and Specifications

13.14.3 Zhangjiagang Furui Special Equipment Hydrogen OTV Solenoid Valve Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 Zhangjiagang Furui Special Equipment Main Business Overview

13.14.5 Zhangjiagang Furui Special Equipment Latest Developments

13.15 Suzhou Qipan Technology

13.15.1 Suzhou Qipan Technology Company Information

13.15.2 Suzhou Qipan Technology Hydrogen OTV Solenoid Valve Product Portfolios and Specifications

13.15.3 Suzhou Qipan Technology Hydrogen OTV Solenoid Valve Sales, Revenue, Price and Gross Margin (2021-2026)

13.15.4 Suzhou Qipan Technology Main Business Overview

13.15.5 Suzhou Qipan Technology Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Hydrogen OTV Solenoid Valve Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Hydrogen OTV Solenoid Valve Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of 35MPa OTV Valve

Table 4. Major Players of 70MPa OTV Valve

Table 5. Global Hydrogen OTV Solenoid Valve Sales by Type (2021-2026) & (K Units)

Table 6. Global Hydrogen OTV Solenoid Valve Sales Market Share by Type (2021-2026)

Table 7. Global Hydrogen OTV Solenoid Valve Revenue by Type (2021-2026) & (\$ million)

Table 8. Global Hydrogen OTV Solenoid Valve Revenue Market Share by Type (2021-2026)

Table 9. Global Hydrogen OTV Solenoid Valve Sale Price by Type (2021-2026) & (US\$/Unit)

Table 10. Major Players of Stainless Steel

Table 11. Major Players of Aluminum

Table 12. Major Players of Others

Table 13. Global Hydrogen OTV Solenoid Valve Sales by Material (2021-2026) & (K Units)

Table 14. Global Hydrogen OTV Solenoid Valve Sales Market Share by Material (2021-2026)

Table 15. Global Hydrogen OTV Solenoid Valve Revenue by Material (2021-2026) & (\$ million)

Table 16. Global Hydrogen OTV Solenoid Valve Revenue Market Share by Material (2021-2026)

Table 17. Global Hydrogen OTV Solenoid Valve Sale Price by Material (2021-2026) & (US\$/Unit)

Table 18. Global Hydrogen OTV Solenoid Valve Sale by Application (2021-2026) & (K Units)

Table 19. Global Hydrogen OTV Solenoid Valve Sale Market Share by Application (2021-2026)

Table 20. Global Hydrogen OTV Solenoid Valve Revenue by Application (2021-2026) & (\$ million)

Table 21. Global Hydrogen OTV Solenoid Valve Revenue Market Share by Application

(2021-2026)

Table 22. Global Hydrogen OTV Solenoid Valve Sale Price by Application (2021-2026) & (US\$/Unit)

Table 23. Global Hydrogen OTV Solenoid Valve Sales by Company (2021-2026) & (K Units)

Table 24. Global Hydrogen OTV Solenoid Valve Sales Market Share by Company (2021-2026)

Table 25. Global Hydrogen OTV Solenoid Valve Revenue by Company (2021-2026) & (\$ millions)

Table 26. Global Hydrogen OTV Solenoid Valve Revenue Market Share by Company (2021-2026)

Table 27. Global Hydrogen OTV Solenoid Valve Sale Price by Company (2021-2026) & (US\$/Unit)

Table 28. Key Manufacturers Hydrogen OTV Solenoid Valve Producing Area Distribution and Sales Area

Table 29. Players Hydrogen OTV Solenoid Valve Products Offered

Table 30. Hydrogen OTV Solenoid Valve Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 31. New Products and Potential Entrants

Table 32. Market M&A Activity & Strategy

Table 33. Global Hydrogen OTV Solenoid Valve Sales by Geographic Region (2021-2026) & (K Units)

Table 34. Global Hydrogen OTV Solenoid Valve Sales Market Share Geographic Region (2021-2026)

Table 35. Global Hydrogen OTV Solenoid Valve Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 36. Global Hydrogen OTV Solenoid Valve Revenue Market Share by Geographic Region (2021-2026)

Table 37. Global Hydrogen OTV Solenoid Valve Sales by Country/Region (2021-2026) & (K Units)

Table 38. Global Hydrogen OTV Solenoid Valve Sales Market Share by Country/Region (2021-2026)

Table 39. Global Hydrogen OTV Solenoid Valve Revenue by Country/Region (2021-2026) & (\$ millions)

Table 40. Global Hydrogen OTV Solenoid Valve Revenue Market Share by Country/Region (2021-2026)

Table 41. Americas Hydrogen OTV Solenoid Valve Sales by Country (2021-2026) & (K Units)

Table 42. Americas Hydrogen OTV Solenoid Valve Sales Market Share by Country

(2021-2026)

Table 43. Americas Hydrogen OTV Solenoid Valve Revenue by Country (2021-2026) & (\$ millions)

Table 44. Americas Hydrogen OTV Solenoid Valve Sales by Type (2021-2026) & (K Units)

Table 45. Americas Hydrogen OTV Solenoid Valve Sales by Application (2021-2026) & (K Units)

Table 46. APAC Hydrogen OTV Solenoid Valve Sales by Region (2021-2026) & (K Units)

Table 47. APAC Hydrogen OTV Solenoid Valve Sales Market Share by Region (2021-2026)

Table 48. APAC Hydrogen OTV Solenoid Valve Revenue by Region (2021-2026) & (\$ millions)

Table 49. APAC Hydrogen OTV Solenoid Valve Sales by Type (2021-2026) & (K Units)

Table 50. APAC Hydrogen OTV Solenoid Valve Sales by Application (2021-2026) & (K Units)

Table 51. Europe Hydrogen OTV Solenoid Valve Sales by Country (2021-2026) & (K Units)

Table 52. Europe Hydrogen OTV Solenoid Valve Revenue by Country (2021-2026) & (\$ millions)

Table 53. Europe Hydrogen OTV Solenoid Valve Sales by Type (2021-2026) & (K Units)

Table 54. Europe Hydrogen OTV Solenoid Valve Sales by Application (2021-2026) & (K Units)

Table 55. Middle East & Africa Hydrogen OTV Solenoid Valve Sales by Country (2021-2026) & (K Units)

Table 56. Middle East & Africa Hydrogen OTV Solenoid Valve Revenue Market Share by Country (2021-2026)

Table 57. Middle East & Africa Hydrogen OTV Solenoid Valve Sales by Type (2021-2026) & (K Units)

Table 58. Middle East & Africa Hydrogen OTV Solenoid Valve Sales by Application (2021-2026) & (K Units)

Table 59. Key Market Drivers & Growth Opportunities of Hydrogen OTV Solenoid Valve

Table 60. Key Market Challenges & Risks of Hydrogen OTV Solenoid Valve

Table 61. Key Industry Trends of Hydrogen OTV Solenoid Valve

Table 62. Hydrogen OTV Solenoid Valve Raw Material

Table 63. Key Suppliers of Raw Materials

Table 64. Hydrogen OTV Solenoid Valve Distributors List

Table 65. Hydrogen OTV Solenoid Valve Customer List

Table 66. Global Hydrogen OTV Solenoid Valve Sales Forecast by Region (2027-2032) & (K Units)

Table 67. Global Hydrogen OTV Solenoid Valve Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 68. Americas Hydrogen OTV Solenoid Valve Sales Forecast by Country (2027-2032) & (K Units)

Table 69. Americas Hydrogen OTV Solenoid Valve Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 70. APAC Hydrogen OTV Solenoid Valve Sales Forecast by Region (2027-2032) & (K Units)

Table 71. APAC Hydrogen OTV Solenoid Valve Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 72. Europe Hydrogen OTV Solenoid Valve Sales Forecast by Country (2027-2032) & (K Units)

Table 73. Europe Hydrogen OTV Solenoid Valve Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 74. Middle East & Africa Hydrogen OTV Solenoid Valve Sales Forecast by Country (2027-2032) & (K Units)

Table 75. Middle East & Africa Hydrogen OTV Solenoid Valve Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 76. Global Hydrogen OTV Solenoid Valve Sales Forecast by Type (2027-2032) & (K Units)

Table 77. Global Hydrogen OTV Solenoid Valve Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 78. Global Hydrogen OTV Solenoid Valve Sales Forecast by Application (2027-2032) & (K Units)

Table 79. Global Hydrogen OTV Solenoid Valve Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 80. Hilite International Basic Information, Hydrogen OTV Solenoid Valve Manufacturing Base, Sales Area and Its Competitors

Table 81. Hilite International Hydrogen OTV Solenoid Valve Product Portfolios and Specifications

Table 82. Hilite International Hydrogen OTV Solenoid Valve Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 83. Hilite International Main Business

Table 84. Hilite International Latest Developments

Table 85. Bosch Basic Information, Hydrogen OTV Solenoid Valve Manufacturing Base, Sales Area and Its Competitors

Table 86. Bosch Hydrogen OTV Solenoid Valve Product Portfolios and Specifications

Table 87. Bosch Hydrogen OTV Solenoid Valve Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 88. Bosch Main Business

Table 89. Bosch Latest Developments

Table 90. Hamai Industries Basic Information, Hydrogen OTV Solenoid Valve Manufacturing Base, Sales Area and Its Competitors

Table 91. Hamai Industries Hydrogen OTV Solenoid Valve Product Portfolios and Specifications

Table 92. Hamai Industries Hydrogen OTV Solenoid Valve Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 93. Hamai Industries Main Business

Table 94. Hamai Industries Latest Developments

Table 95. Pacific Industrial Basic Information, Hydrogen OTV Solenoid Valve Manufacturing Base, Sales Area and Its Competitors

Table 96. Pacific Industrial Hydrogen OTV Solenoid Valve Product Portfolios and Specifications

Table 97. Pacific Industrial Hydrogen OTV Solenoid Valve Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 98. Pacific Industrial Main Business

Table 99. Pacific Industrial Latest Developments

Table 100. Poppe + Potthoff Basic Information, Hydrogen OTV Solenoid Valve Manufacturing Base, Sales Area and Its Competitors

Table 101. Poppe + Potthoff Hydrogen OTV Solenoid Valve Product Portfolios and Specifications

Table 102. Poppe + Potthoff Hydrogen OTV Solenoid Valve Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 103. Poppe + Potthoff Main Business

Table 104. Poppe + Potthoff Latest Developments

Table 105. Teesing Basic Information, Hydrogen OTV Solenoid Valve Manufacturing Base, Sales Area and Its Competitors

Table 106. Teesing Hydrogen OTV Solenoid Valve Product Portfolios and Specifications

Table 107. Teesing Hydrogen OTV Solenoid Valve Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 108. Teesing Main Business

Table 109. Teesing Latest Developments

Table 110. GFI Control Systems Basic Information, Hydrogen OTV Solenoid Valve Manufacturing Base, Sales Area and Its Competitors

Table 111. GFI Control Systems Hydrogen OTV Solenoid Valve Product Portfolios and

Specifications

Table 112. GFI Control Systems Hydrogen OTV Solenoid Valve Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 113. GFI Control Systems Main Business

Table 114. GFI Control Systems Latest Developments

Table 115. Luxfer Basic Information, Hydrogen OTV Solenoid Valve Manufacturing Base, Sales Area and Its Competitors

Table 116. Luxfer Hydrogen OTV Solenoid Valve Product Portfolios and Specifications

Table 117. Luxfer Hydrogen OTV Solenoid Valve Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 118. Luxfer Main Business

Table 119. Luxfer Latest Developments

Table 120. OMB Saleri Basic Information, Hydrogen OTV Solenoid Valve Manufacturing Base, Sales Area and Its Competitors

Table 121. OMB Saleri Hydrogen OTV Solenoid Valve Product Portfolios and Specifications

Table 122. OMB Saleri Hydrogen OTV Solenoid Valve Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 123. OMB Saleri Main Business

Table 124. OMB Saleri Latest Developments

Table 125. VOSS Basic Information, Hydrogen OTV Solenoid Valve Manufacturing Base, Sales Area and Its Competitors

Table 126. VOSS Hydrogen OTV Solenoid Valve Product Portfolios and Specifications

Table 127. VOSS Hydrogen OTV Solenoid Valve Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 128. VOSS Main Business

Table 129. VOSS Latest Developments

Table 130. Shanghai Weishi Energy Technology Basic Information, Hydrogen OTV Solenoid Valve Manufacturing Base, Sales Area and Its Competitors

Table 131. Shanghai Weishi Energy Technology Hydrogen OTV Solenoid Valve Product Portfolios and Specifications

Table 132. Shanghai Weishi Energy Technology Hydrogen OTV Solenoid Valve Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 133. Shanghai Weishi Energy Technology Main Business

Table 134. Shanghai Weishi Energy Technology Latest Developments

Table 135. Shanghai Shunhua New Energy System Basic Information, Hydrogen OTV Solenoid Valve Manufacturing Base, Sales Area and Its Competitors

Table 136. Shanghai Shunhua New Energy System Hydrogen OTV Solenoid Valve Product Portfolios and Specifications

Table 137. Shanghai Shunhua New Energy System Hydrogen OTV Solenoid Valve Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 138. Shanghai Shunhua New Energy System Main Business

Table 139. Shanghai Shunhua New Energy System Latest Developments

Table 140. Hanhydrogen Power (Zhuhai) Technology Basic Information, Hydrogen OTV Solenoid Valve Manufacturing Base, Sales Area and Its Competitors

Table 141. Hanhydrogen Power (Zhuhai) Technology Hydrogen OTV Solenoid Valve Product Portfolios and Specifications

Table 142. Hanhydrogen Power (Zhuhai) Technology Hydrogen OTV Solenoid Valve Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 143. Hanhydrogen Power (Zhuhai) Technology Main Business

Table 144. Hanhydrogen Power (Zhuhai) Technology Latest Developments

Table 145. Zhangjiagang Furui Special Equipment Basic Information, Hydrogen OTV Solenoid Valve Manufacturing Base, Sales Area and Its Competitors

Table 146. Zhangjiagang Furui Special Equipment Hydrogen OTV Solenoid Valve Product Portfolios and Specifications

Table 147. Zhangjiagang Furui Special Equipment Hydrogen OTV Solenoid Valve Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 148. Zhangjiagang Furui Special Equipment Main Business

Table 149. Zhangjiagang Furui Special Equipment Latest Developments

Table 150. Suzhou Qipan Technology Basic Information, Hydrogen OTV Solenoid Valve Manufacturing Base, Sales Area and Its Competitors

Table 151. Suzhou Qipan Technology Hydrogen OTV Solenoid Valve Product Portfolios and Specifications

Table 152. Suzhou Qipan Technology Hydrogen OTV Solenoid Valve Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 153. Suzhou Qipan Technology Main Business

Table 154. Suzhou Qipan Technology Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Hydrogen OTV Solenoid Valve
- Figure 2. Hydrogen OTV Solenoid Valve Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Hydrogen OTV Solenoid Valve Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global Hydrogen OTV Solenoid Valve Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Hydrogen OTV Solenoid Valve Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Hydrogen OTV Solenoid Valve Sales Market Share by Country/Region (2025)
- Figure 10. Hydrogen OTV Solenoid Valve Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of 35MPa OTV Valve
- Figure 12. Product Picture of 70MPa OTV Valve
- Figure 13. Global Hydrogen OTV Solenoid Valve Sales Market Share by Type in 2026
- Figure 14. Global Hydrogen OTV Solenoid Valve Revenue Market Share by Type (2021-2026)
- Figure 15. Product Picture of Stainless Steel
- Figure 16. Product Picture of Aluminum
- Figure 17. Product Picture of Others
- Figure 18. Global Hydrogen OTV Solenoid Valve Sales Market Share by Material in 2026
- Figure 19. Global Hydrogen OTV Solenoid Valve Revenue Market Share by Material (2021-2026)
- Figure 20. Hydrogen OTV Solenoid Valve Consumed in Hydrogen Fuel Cell System
- Figure 21. Global Hydrogen OTV Solenoid Valve Market: Hydrogen Fuel Cell System (2021-2026) & (K Units)
- Figure 22. Hydrogen OTV Solenoid Valve Consumed in Oxygen/Hydrogen Storage and Control System
- Figure 23. Global Hydrogen OTV Solenoid Valve Market: Oxygen/Hydrogen Storage and Control System (2021-2026) & (K Units)
- Figure 24. Hydrogen OTV Solenoid Valve Consumed in Other High-pressure Fluid Control Systems
- Figure 25. Global Hydrogen OTV Solenoid Valve Market: Other High-pressure Fluid

Control Systems (2021-2026) & (K Units)

Figure 26. Global Hydrogen OTV Solenoid Valve Sale Market Share by Application (2025)

Figure 27. Global Hydrogen OTV Solenoid Valve Revenue Market Share by Application in 2026

Figure 28. Hydrogen OTV Solenoid Valve Sales by Company in 2026 (K Units)

Figure 29. Global Hydrogen OTV Solenoid Valve Sales Market Share by Company in 2026

Figure 30. Hydrogen OTV Solenoid Valve Revenue by Company in 2026 (\$ millions)

Figure 31. Global Hydrogen OTV Solenoid Valve Revenue Market Share by Company in 2026

Figure 32. Global Hydrogen OTV Solenoid Valve Sales Market Share by Geographic Region (2021-2026)

Figure 33. Global Hydrogen OTV Solenoid Valve Revenue Market Share by Geographic Region in 2026

Figure 34. Americas Hydrogen OTV Solenoid Valve Sales 2021-2026 (K Units)

Figure 35. Americas Hydrogen OTV Solenoid Valve Revenue 2021-2026 (\$ millions)

Figure 36. APAC Hydrogen OTV Solenoid Valve Sales 2021-2026 (K Units)

Figure 37. APAC Hydrogen OTV Solenoid Valve Revenue 2021-2026 (\$ millions)

Figure 38. Europe Hydrogen OTV Solenoid Valve Sales 2021-2026 (K Units)

Figure 39. Europe Hydrogen OTV Solenoid Valve Revenue 2021-2026 (\$ millions)

Figure 40. Middle East & Africa Hydrogen OTV Solenoid Valve Sales 2021-2026 (K Units)

Figure 41. Middle East & Africa Hydrogen OTV Solenoid Valve Revenue 2021-2026 (\$ millions)

Figure 42. Americas Hydrogen OTV Solenoid Valve Sales Market Share by Country in 2026

Figure 43. Americas Hydrogen OTV Solenoid Valve Revenue Market Share by Country (2021-2026)

Figure 44. Americas Hydrogen OTV Solenoid Valve Sales Market Share by Type (2021-2026)

Figure 45. Americas Hydrogen OTV Solenoid Valve Sales Market Share by Application (2021-2026)

Figure 46. United States Hydrogen OTV Solenoid Valve Revenue Growth 2021-2026 (\$ millions)

Figure 47. Canada Hydrogen OTV Solenoid Valve Revenue Growth 2021-2026 (\$ millions)

Figure 48. Mexico Hydrogen OTV Solenoid Valve Revenue Growth 2021-2026 (\$ millions)

Figure 49. Brazil Hydrogen OTV Solenoid Valve Revenue Growth 2021-2026 (\$ millions)

Figure 50. APAC Hydrogen OTV Solenoid Valve Sales Market Share by Region in 2026

Figure 51. APAC Hydrogen OTV Solenoid Valve Revenue Market Share by Region (2021-2026)

Figure 52. APAC Hydrogen OTV Solenoid Valve Sales Market Share by Type (2021-2026)

Figure 53. APAC Hydrogen OTV Solenoid Valve Sales Market Share by Application (2021-2026)

Figure 54. China Hydrogen OTV Solenoid Valve Revenue Growth 2021-2026 (\$ millions)

Figure 55. Japan Hydrogen OTV Solenoid Valve Revenue Growth 2021-2026 (\$ millions)

Figure 56. South Korea Hydrogen OTV Solenoid Valve Revenue Growth 2021-2026 (\$ millions)

Figure 57. Southeast Asia Hydrogen OTV Solenoid Valve Revenue Growth 2021-2026 (\$ millions)

Figure 58. India Hydrogen OTV Solenoid Valve Revenue Growth 2021-2026 (\$ millions)

Figure 59. Australia Hydrogen OTV Solenoid Valve Revenue Growth 2021-2026 (\$ millions)

Figure 60. China Taiwan Hydrogen OTV Solenoid Valve Revenue Growth 2021-2026 (\$ millions)

Figure 61. Europe Hydrogen OTV Solenoid Valve Sales Market Share by Country in 2026

Figure 62. Europe Hydrogen OTV Solenoid Valve Revenue Market Share by Country (2021-2026)

Figure 63. Europe Hydrogen OTV Solenoid Valve Sales Market Share by Type (2021-2026)

Figure 64. Europe Hydrogen OTV Solenoid Valve Sales Market Share by Application (2021-2026)

Figure 65. Germany Hydrogen OTV Solenoid Valve Revenue Growth 2021-2026 (\$ millions)

Figure 66. France Hydrogen OTV Solenoid Valve Revenue Growth 2021-2026 (\$ millions)

Figure 67. UK Hydrogen OTV Solenoid Valve Revenue Growth 2021-2026 (\$ millions)

Figure 68. Italy Hydrogen OTV Solenoid Valve Revenue Growth 2021-2026 (\$ millions)

Figure 69. Russia Hydrogen OTV Solenoid Valve Revenue Growth 2021-2026 (\$ millions)

Figure 70. Middle East & Africa Hydrogen OTV Solenoid Valve Sales Market Share by

Country (2021-2026)

Figure 71. Middle East & Africa Hydrogen OTV Solenoid Valve Sales Market Share by Type (2021-2026)

Figure 72. Middle East & Africa Hydrogen OTV Solenoid Valve Sales Market Share by Application (2021-2026)

Figure 73. Egypt Hydrogen OTV Solenoid Valve Revenue Growth 2021-2026 (\$ millions)

Figure 74. South Africa Hydrogen OTV Solenoid Valve Revenue Growth 2021-2026 (\$ millions)

Figure 75. Israel Hydrogen OTV Solenoid Valve Revenue Growth 2021-2026 (\$ millions)

Figure 76. Turkey Hydrogen OTV Solenoid Valve Revenue Growth 2021-2026 (\$ millions)

Figure 77. GCC Countries Hydrogen OTV Solenoid Valve Revenue Growth 2021-2026 (\$ millions)

Figure 78. Manufacturing Cost Structure Analysis of Hydrogen OTV Solenoid Valve in 2026

Figure 79. Manufacturing Process Analysis of Hydrogen OTV Solenoid Valve

Figure 80. Industry Chain Structure of Hydrogen OTV Solenoid Valve

Figure 81. Channels of Distribution

Figure 82. Global Hydrogen OTV Solenoid Valve Sales Market Forecast by Region (2027-2032)

Figure 83. Global Hydrogen OTV Solenoid Valve Revenue Market Share Forecast by Region (2027-2032)

Figure 84. Global Hydrogen OTV Solenoid Valve Sales Market Share Forecast by Type (2027-2032)

Figure 85. Global Hydrogen OTV Solenoid Valve Revenue Market Share Forecast by Type (2027-2032)

Figure 86. Global Hydrogen OTV Solenoid Valve Sales Market Share Forecast by Application (2027-2032)

Figure 87. Global Hydrogen OTV Solenoid Valve Revenue Market Share Forecast by Application (2027-2032)

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