

Global Hydrogen Needle Valves Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Hydrogen Needle Valves market size was valued at US\$ 92.03 million in 2025 and is forecast to a readjusted size of US\$ 304 million by 2032 with a CAGR of 18.6% during review period.

Hydrogen needle valves are precision-engineered components designed to regulate and control the flow of hydrogen gas with exceptional accuracy and reliability in high-pressure systems, ensuring safe and efficient operation through their specialized construction that accommodates hydrogen's unique properties such as small molecular size and potential for embrittlement. These valves incorporate materials and designs specifically chosen to prevent leakage and maintain integrity under extreme conditions, including temperature variations from -40°C to +50°C, which is critical given hydrogen's tendency to permeate through materials more readily than other gases. The fine-threaded stem mechanism of hydrogen needle valves allows for gradual, controlled adjustments to flow rates, enabling precise metering essential for applications requiring exact hydrogen quantities, while their robust construction ensures durability over extended service periods and numerous operational cycles. Additionally, hydrogen needle valves are engineered to minimize the risk of failure during operation, with features that prevent increased turning forces and ensure consistent performance even after prolonged use in demanding environments. In 2025, global Hydrogen Needle Valves production reached approximately 596.2 k units with an average global market price of around US\$150 per unit.

This report is a detailed and comprehensive analysis for global Hydrogen Needle Valves market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is

constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Hydrogen Needle Valves market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Hydrogen Needle Valves market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Hydrogen Needle Valves market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Hydrogen Needle Valves market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Hydrogen Needle Valves

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Hydrogen Needle Valves market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include OMB Saleri, Nova Swiss, Parker, EV Hydrogen, KITZ, Fujikin, Haskel, Hamai Industries, Shenzhen Fitok, Zhangjiagang Furui Special Equipment, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Hydrogen Needle Valves market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

High Pressure Needle Valve

Medium Pressure Needle Valve

Low Pressure Needle Valve

Market segment by Material

Stainless Steel

Brass

Others

Market segment by Application

Hydrogen Refueling Station

Automotive

Industrial Equipment

Other

Major players covered

OMB Saleri

Nova Swiss

Parker

EV Hydrogen

KITZ

Fujikin

Haskel

Hamai Industries

Shenzhen Fitok

Zhangjiagang Furui Special Equipment

Neway Valve (Suzhou)

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Hydrogen Needle Valves product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Hydrogen Needle Valves, with price, sales quantity, revenue, and global market share of Hydrogen Needle Valves from 2021 to 2026.

Chapter 3, the Hydrogen Needle Valves competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Hydrogen Needle Valves breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Hydrogen Needle Valves market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Hydrogen Needle Valves.

Chapter 14 and 15, to describe Hydrogen Needle Valves sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Hydrogen Needle Valves Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 High Pressure Needle Valve

1.3.3 Medium Pressure Needle Valve

1.3.4 Low Pressure Needle Valve

1.4 Market Analysis by Material

1.4.1 Overview: Global Hydrogen Needle Valves Consumption Value by Material: 2021 Versus 2025 Versus 2032

1.4.2 Stainless Steel

1.4.3 Brass

1.4.4 Others

1.5 Market Analysis by Application

1.5.1 Overview: Global Hydrogen Needle Valves Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.5.2 Hydrogen Refueling Station

1.5.3 Automotive

1.5.4 Industrial Equipment

1.5.5 Other

1.6 Global Hydrogen Needle Valves Market Size & Forecast

1.6.1 Global Hydrogen Needle Valves Consumption Value (2021 & 2025 & 2032)

1.6.2 Global Hydrogen Needle Valves Sales Quantity (2021-2032)

1.6.3 Global Hydrogen Needle Valves Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 OMB Saleri

2.1.1 OMB Saleri Details

2.1.2 OMB Saleri Major Business

2.1.3 OMB Saleri Hydrogen Needle Valves Product and Services

2.1.4 OMB Saleri Hydrogen Needle Valves Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 OMB Saleri Recent Developments/Updates

2.2 Nova Swiss

2.2.1 Nova Swiss Details

2.2.2 Nova Swiss Major Business

2.2.3 Nova Swiss Hydrogen Needle Valves Product and Services

2.2.4 Nova Swiss Hydrogen Needle Valves Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Nova Swiss Recent Developments/Updates

2.3 Parker

2.3.1 Parker Details

2.3.2 Parker Major Business

2.3.3 Parker Hydrogen Needle Valves Product and Services

2.3.4 Parker Hydrogen Needle Valves Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Parker Recent Developments/Updates

2.4 EV Hydrogen

2.4.1 EV Hydrogen Details

2.4.2 EV Hydrogen Major Business

2.4.3 EV Hydrogen Hydrogen Needle Valves Product and Services

2.4.4 EV Hydrogen Hydrogen Needle Valves Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 EV Hydrogen Recent Developments/Updates

2.5 KITZ

2.5.1 KITZ Details

2.5.2 KITZ Major Business

2.5.3 KITZ Hydrogen Needle Valves Product and Services

2.5.4 KITZ Hydrogen Needle Valves Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 KITZ Recent Developments/Updates

2.6 Fujikin

2.6.1 Fujikin Details

2.6.2 Fujikin Major Business

2.6.3 Fujikin Hydrogen Needle Valves Product and Services

2.6.4 Fujikin Hydrogen Needle Valves Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 Fujikin Recent Developments/Updates

2.7 Haskel

2.7.1 Haskel Details

2.7.2 Haskel Major Business

2.7.3 Haskel Hydrogen Needle Valves Product and Services

2.7.4 Haskel Hydrogen Needle Valves Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 Haskel Recent Developments/Updates

2.8 Hamai Industries

2.8.1 Hamai Industries Details

2.8.2 Hamai Industries Major Business

2.8.3 Hamai Industries Hydrogen Needle Valves Product and Services

2.8.4 Hamai Industries Hydrogen Needle Valves Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 Hamai Industries Recent Developments/Updates

2.9 Shenzhen Fitok

2.9.1 Shenzhen Fitok Details

2.9.2 Shenzhen Fitok Major Business

2.9.3 Shenzhen Fitok Hydrogen Needle Valves Product and Services

2.9.4 Shenzhen Fitok Hydrogen Needle Valves Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 Shenzhen Fitok Recent Developments/Updates

2.10 Zhangjiagang Furui Special Equipment

2.10.1 Zhangjiagang Furui Special Equipment Details

2.10.2 Zhangjiagang Furui Special Equipment Major Business

2.10.3 Zhangjiagang Furui Special Equipment Hydrogen Needle Valves Product and Services

2.10.4 Zhangjiagang Furui Special Equipment Hydrogen Needle Valves Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 Zhangjiagang Furui Special Equipment Recent Developments/Updates

2.11 Neway Valve (Suzhou)

2.11.1 Neway Valve (Suzhou) Details

2.11.2 Neway Valve (Suzhou) Major Business

2.11.3 Neway Valve (Suzhou) Hydrogen Needle Valves Product and Services

2.11.4 Neway Valve (Suzhou) Hydrogen Needle Valves Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 Neway Valve (Suzhou) Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: HYDROGEN NEEDLE VALVES BY MANUFACTURER

3.1 Global Hydrogen Needle Valves Sales Quantity by Manufacturer (2021-2026)

3.2 Global Hydrogen Needle Valves Revenue by Manufacturer (2021-2026)

3.3 Global Hydrogen Needle Valves Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of Hydrogen Needle Valves by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 Hydrogen Needle Valves Manufacturer Market Share in 2025

3.4.3 Top 6 Hydrogen Needle Valves Manufacturer Market Share in 2025

3.5 Hydrogen Needle Valves Market: Overall Company Footprint Analysis

3.5.1 Hydrogen Needle Valves Market: Region Footprint

3.5.2 Hydrogen Needle Valves Market: Company Product Type Footprint

3.5.3 Hydrogen Needle Valves Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Hydrogen Needle Valves Market Size by Region

4.1.1 Global Hydrogen Needle Valves Sales Quantity by Region (2021-2032)

4.1.2 Global Hydrogen Needle Valves Consumption Value by Region (2021-2032)

4.1.3 Global Hydrogen Needle Valves Average Price by Region (2021-2032)

4.2 North America Hydrogen Needle Valves Consumption Value (2021-2032)

4.3 Europe Hydrogen Needle Valves Consumption Value (2021-2032)

4.4 Asia-Pacific Hydrogen Needle Valves Consumption Value (2021-2032)

4.5 South America Hydrogen Needle Valves Consumption Value (2021-2032)

4.6 Middle East & Africa Hydrogen Needle Valves Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Hydrogen Needle Valves Sales Quantity by Type (2021-2032)

5.2 Global Hydrogen Needle Valves Consumption Value by Type (2021-2032)

5.3 Global Hydrogen Needle Valves Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Hydrogen Needle Valves Sales Quantity by Application (2021-2032)

6.2 Global Hydrogen Needle Valves Consumption Value by Application (2021-2032)

6.3 Global Hydrogen Needle Valves Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Hydrogen Needle Valves Sales Quantity by Type (2021-2032)

7.2 North America Hydrogen Needle Valves Sales Quantity by Application (2021-2032)

7.3 North America Hydrogen Needle Valves Market Size by Country

7.3.1 North America Hydrogen Needle Valves Sales Quantity by Country (2021-2032)

7.3.2 North America Hydrogen Needle Valves Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Hydrogen Needle Valves Sales Quantity by Type (2021-2032)

8.2 Europe Hydrogen Needle Valves Sales Quantity by Application (2021-2032)

8.3 Europe Hydrogen Needle Valves Market Size by Country

8.3.1 Europe Hydrogen Needle Valves Sales Quantity by Country (2021-2032)

8.3.2 Europe Hydrogen Needle Valves Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Hydrogen Needle Valves Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Hydrogen Needle Valves Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Hydrogen Needle Valves Market Size by Region

9.3.1 Asia-Pacific Hydrogen Needle Valves Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Hydrogen Needle Valves Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Hydrogen Needle Valves Sales Quantity by Type (2021-2032)

10.2 South America Hydrogen Needle Valves Sales Quantity by Application
(2021-2032)

10.3 South America Hydrogen Needle Valves Market Size by Country

10.3.1 South America Hydrogen Needle Valves Sales Quantity by Country
(2021-2032)

10.3.2 South America Hydrogen Needle Valves Consumption Value by Country
(2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Hydrogen Needle Valves Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Hydrogen Needle Valves Sales Quantity by Application
(2021-2032)

11.3 Middle East & Africa Hydrogen Needle Valves Market Size by Country

11.3.1 Middle East & Africa Hydrogen Needle Valves Sales Quantity by Country
(2021-2032)

11.3.2 Middle East & Africa Hydrogen Needle Valves Consumption Value by Country
(2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 Hydrogen Needle Valves Market Drivers

12.2 Hydrogen Needle Valves Market Restraints

12.3 Hydrogen Needle Valves Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Hydrogen Needle Valves and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Hydrogen Needle Valves
- 13.3 Hydrogen Needle Valves Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Hydrogen Needle Valves Typical Distributors
- 14.3 Hydrogen Needle Valves Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Hydrogen Needle Valves Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Hydrogen Needle Valves Consumption Value by Material, (USD Million), 2021 & 2025 & 2032

Table 3. Global Hydrogen Needle Valves Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 4. OMB Saleri Basic Information, Manufacturing Base and Competitors

Table 5. OMB Saleri Major Business

Table 6. OMB Saleri Hydrogen Needle Valves Product and Services

Table 7. OMB Saleri Hydrogen Needle Valves Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 8. OMB Saleri Recent Developments/Updates

Table 9. Nova Swiss Basic Information, Manufacturing Base and Competitors

Table 10. Nova Swiss Major Business

Table 11. Nova Swiss Hydrogen Needle Valves Product and Services

Table 12. Nova Swiss Hydrogen Needle Valves Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 13. Nova Swiss Recent Developments/Updates

Table 14. Parker Basic Information, Manufacturing Base and Competitors

Table 15. Parker Major Business

Table 16. Parker Hydrogen Needle Valves Product and Services

Table 17. Parker Hydrogen Needle Valves Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 18. Parker Recent Developments/Updates

Table 19. EV Hydrogen Basic Information, Manufacturing Base and Competitors

Table 20. EV Hydrogen Major Business

Table 21. EV Hydrogen Hydrogen Needle Valves Product and Services

Table 22. EV Hydrogen Hydrogen Needle Valves Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 23. EV Hydrogen Recent Developments/Updates

Table 24. KITZ Basic Information, Manufacturing Base and Competitors

Table 25. KITZ Major Business

Table 26. KITZ Hydrogen Needle Valves Product and Services

Table 27. KITZ Hydrogen Needle Valves Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

- Table 28. KITZ Recent Developments/Updates
- Table 29. Fujikin Basic Information, Manufacturing Base and Competitors
- Table 30. Fujikin Major Business
- Table 31. Fujikin Hydrogen Needle Valves Product and Services
- Table 32. Fujikin Hydrogen Needle Valves Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 33. Fujikin Recent Developments/Updates
- Table 34. Haskel Basic Information, Manufacturing Base and Competitors
- Table 35. Haskel Major Business
- Table 36. Haskel Hydrogen Needle Valves Product and Services
- Table 37. Haskel Hydrogen Needle Valves Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 38. Haskel Recent Developments/Updates
- Table 39. Hamai Industries Basic Information, Manufacturing Base and Competitors
- Table 40. Hamai Industries Major Business
- Table 41. Hamai Industries Hydrogen Needle Valves Product and Services
- Table 42. Hamai Industries Hydrogen Needle Valves Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 43. Hamai Industries Recent Developments/Updates
- Table 44. Shenzhen Fitok Basic Information, Manufacturing Base and Competitors
- Table 45. Shenzhen Fitok Major Business
- Table 46. Shenzhen Fitok Hydrogen Needle Valves Product and Services
- Table 47. Shenzhen Fitok Hydrogen Needle Valves Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 48. Shenzhen Fitok Recent Developments/Updates
- Table 49. Zhangjiagang Furui Special Equipment Basic Information, Manufacturing Base and Competitors
- Table 50. Zhangjiagang Furui Special Equipment Major Business
- Table 51. Zhangjiagang Furui Special Equipment Hydrogen Needle Valves Product and Services
- Table 52. Zhangjiagang Furui Special Equipment Hydrogen Needle Valves Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 53. Zhangjiagang Furui Special Equipment Recent Developments/Updates
- Table 54. Neway Valve (Suzhou) Basic Information, Manufacturing Base and Competitors
- Table 55. Neway Valve (Suzhou) Major Business
- Table 56. Neway Valve (Suzhou) Hydrogen Needle Valves Product and Services
- Table 57. Neway Valve (Suzhou) Hydrogen Needle Valves Sales Quantity (K Units),

Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 58. Neway Valve (Suzhou) Recent Developments/Updates

Table 59. Global Hydrogen Needle Valves Sales Quantity by Manufacturer (2021-2026) & (K Units)

Table 60. Global Hydrogen Needle Valves Revenue by Manufacturer (2021-2026) & (USD Million)

Table 61. Global Hydrogen Needle Valves Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 62. Market Position of Manufacturers in Hydrogen Needle Valves, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 63. Head Office and Hydrogen Needle Valves Production Site of Key Manufacturer

Table 64. Hydrogen Needle Valves Market: Company Product Type Footprint

Table 65. Hydrogen Needle Valves Market: Company Product Application Footprint

Table 66. Hydrogen Needle Valves New Market Entrants and Barriers to Market Entry

Table 67. Hydrogen Needle Valves Mergers, Acquisition, Agreements, and Collaborations

Table 68. Global Hydrogen Needle Valves Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 69. Global Hydrogen Needle Valves Sales Quantity by Region (2021-2026) & (K Units)

Table 70. Global Hydrogen Needle Valves Sales Quantity by Region (2027-2032) & (K Units)

Table 71. Global Hydrogen Needle Valves Consumption Value by Region (2021-2026) & (USD Million)

Table 72. Global Hydrogen Needle Valves Consumption Value by Region (2027-2032) & (USD Million)

Table 73. Global Hydrogen Needle Valves Average Price by Region (2021-2026) & (US\$/Unit)

Table 74. Global Hydrogen Needle Valves Average Price by Region (2027-2032) & (US\$/Unit)

Table 75. Global Hydrogen Needle Valves Sales Quantity by Type (2021-2026) & (K Units)

Table 76. Global Hydrogen Needle Valves Sales Quantity by Type (2027-2032) & (K Units)

Table 77. Global Hydrogen Needle Valves Consumption Value by Type (2021-2026) & (USD Million)

Table 78. Global Hydrogen Needle Valves Consumption Value by Type (2027-2032) &

(USD Million)

Table 79. Global Hydrogen Needle Valves Average Price by Type (2021-2026) & (US\$/Unit)

Table 80. Global Hydrogen Needle Valves Average Price by Type (2027-2032) & (US\$/Unit)

Table 81. Global Hydrogen Needle Valves Sales Quantity by Application (2021-2026) & (K Units)

Table 82. Global Hydrogen Needle Valves Sales Quantity by Application (2027-2032) & (K Units)

Table 83. Global Hydrogen Needle Valves Consumption Value by Application (2021-2026) & (USD Million)

Table 84. Global Hydrogen Needle Valves Consumption Value by Application (2027-2032) & (USD Million)

Table 85. Global Hydrogen Needle Valves Average Price by Application (2021-2026) & (US\$/Unit)

Table 86. Global Hydrogen Needle Valves Average Price by Application (2027-2032) & (US\$/Unit)

Table 87. North America Hydrogen Needle Valves Sales Quantity by Type (2021-2026) & (K Units)

Table 88. North America Hydrogen Needle Valves Sales Quantity by Type (2027-2032) & (K Units)

Table 89. North America Hydrogen Needle Valves Sales Quantity by Application (2021-2026) & (K Units)

Table 90. North America Hydrogen Needle Valves Sales Quantity by Application (2027-2032) & (K Units)

Table 91. North America Hydrogen Needle Valves Sales Quantity by Country (2021-2026) & (K Units)

Table 92. North America Hydrogen Needle Valves Sales Quantity by Country (2027-2032) & (K Units)

Table 93. North America Hydrogen Needle Valves Consumption Value by Country (2021-2026) & (USD Million)

Table 94. North America Hydrogen Needle Valves Consumption Value by Country (2027-2032) & (USD Million)

Table 95. Europe Hydrogen Needle Valves Sales Quantity by Type (2021-2026) & (K Units)

Table 96. Europe Hydrogen Needle Valves Sales Quantity by Type (2027-2032) & (K Units)

Table 97. Europe Hydrogen Needle Valves Sales Quantity by Application (2021-2026) & (K Units)

Table 98. Europe Hydrogen Needle Valves Sales Quantity by Application (2027-2032) & (K Units)

Table 99. Europe Hydrogen Needle Valves Sales Quantity by Country (2021-2026) & (K Units)

Table 100. Europe Hydrogen Needle Valves Sales Quantity by Country (2027-2032) & (K Units)

Table 101. Europe Hydrogen Needle Valves Consumption Value by Country (2021-2026) & (USD Million)

Table 102. Europe Hydrogen Needle Valves Consumption Value by Country (2027-2032) & (USD Million)

Table 103. Asia-Pacific Hydrogen Needle Valves Sales Quantity by Type (2021-2026) & (K Units)

Table 104. Asia-Pacific Hydrogen Needle Valves Sales Quantity by Type (2027-2032) & (K Units)

Table 105. Asia-Pacific Hydrogen Needle Valves Sales Quantity by Application (2021-2026) & (K Units)

Table 106. Asia-Pacific Hydrogen Needle Valves Sales Quantity by Application (2027-2032) & (K Units)

Table 107. Asia-Pacific Hydrogen Needle Valves Sales Quantity by Region (2021-2026) & (K Units)

Table 108. Asia-Pacific Hydrogen Needle Valves Sales Quantity by Region (2027-2032) & (K Units)

Table 109. Asia-Pacific Hydrogen Needle Valves Consumption Value by Region (2021-2026) & (USD Million)

Table 110. Asia-Pacific Hydrogen Needle Valves Consumption Value by Region (2027-2032) & (USD Million)

Table 111. South America Hydrogen Needle Valves Sales Quantity by Type (2021-2026) & (K Units)

Table 112. South America Hydrogen Needle Valves Sales Quantity by Type (2027-2032) & (K Units)

Table 113. South America Hydrogen Needle Valves Sales Quantity by Application (2021-2026) & (K Units)

Table 114. South America Hydrogen Needle Valves Sales Quantity by Application (2027-2032) & (K Units)

Table 115. South America Hydrogen Needle Valves Sales Quantity by Country (2021-2026) & (K Units)

Table 116. South America Hydrogen Needle Valves Sales Quantity by Country (2027-2032) & (K Units)

Table 117. South America Hydrogen Needle Valves Consumption Value by Country

(2021-2026) & (USD Million)

Table 118. South America Hydrogen Needle Valves Consumption Value by Country (2027-2032) & (USD Million)

Table 119. Middle East & Africa Hydrogen Needle Valves Sales Quantity by Type (2021-2026) & (K Units)

Table 120. Middle East & Africa Hydrogen Needle Valves Sales Quantity by Type (2027-2032) & (K Units)

Table 121. Middle East & Africa Hydrogen Needle Valves Sales Quantity by Application (2021-2026) & (K Units)

Table 122. Middle East & Africa Hydrogen Needle Valves Sales Quantity by Application (2027-2032) & (K Units)

Table 123. Middle East & Africa Hydrogen Needle Valves Sales Quantity by Country (2021-2026) & (K Units)

Table 124. Middle East & Africa Hydrogen Needle Valves Sales Quantity by Country (2027-2032) & (K Units)

Table 125. Middle East & Africa Hydrogen Needle Valves Consumption Value by Country (2021-2026) & (USD Million)

Table 126. Middle East & Africa Hydrogen Needle Valves Consumption Value by Country (2027-2032) & (USD Million)

Table 127. Hydrogen Needle Valves Raw Material

Table 128. Key Manufacturers of Hydrogen Needle Valves Raw Materials

Table 129. Hydrogen Needle Valves Typical Distributors

Table 130. Hydrogen Needle Valves Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Hydrogen Needle Valves Picture
- Figure 2. Global Hydrogen Needle Valves Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Hydrogen Needle Valves Revenue Market Share by Type in 2025
- Figure 4. High Pressure Needle Valve Examples
- Figure 5. Medium Pressure Needle Valve Examples
- Figure 6. Low Pressure Needle Valve Examples
- Figure 7. Global Hydrogen Needle Valves Revenue by Material, (USD Million), 2021 & 2025 & 2032
- Figure 8. Global Hydrogen Needle Valves Revenue Market Share by Material in 2025
- Figure 9. Stainless Steel Examples
- Figure 10. Brass Examples
- Figure 11. Others Examples
- Figure 12. Global Hydrogen Needle Valves Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 13. Global Hydrogen Needle Valves Revenue Market Share by Application in 2025
- Figure 14. Hydrogen Refueling Station Examples
- Figure 15. Automotive Examples
- Figure 16. Industrial Equipment Examples
- Figure 17. Other Examples
- Figure 18. Global Hydrogen Needle Valves Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 19. Global Hydrogen Needle Valves Consumption Value and Forecast (2021-2032) & (USD Million)
- Figure 20. Global Hydrogen Needle Valves Sales Quantity (2021-2032) & (K Units)
- Figure 21. Global Hydrogen Needle Valves Price (2021-2032) & (US\$/Unit)
- Figure 22. Global Hydrogen Needle Valves Sales Quantity Market Share by Manufacturer in 2025
- Figure 23. Global Hydrogen Needle Valves Revenue Market Share by Manufacturer in 2025
- Figure 24. Producer Shipments of Hydrogen Needle Valves by Manufacturer Sales (\$MM) and Market Share (%): 2025
- Figure 25. Top 3 Hydrogen Needle Valves Manufacturer (Revenue) Market Share in 2025

Figure 26. Top 6 Hydrogen Needle Valves Manufacturer (Revenue) Market Share in 2025

Figure 27. Global Hydrogen Needle Valves Sales Quantity Market Share by Region (2021-2032)

Figure 28. Global Hydrogen Needle Valves Consumption Value Market Share by Region (2021-2032)

Figure 29. North America Hydrogen Needle Valves Consumption Value (2021-2032) & (USD Million)

Figure 30. Europe Hydrogen Needle Valves Consumption Value (2021-2032) & (USD Million)

Figure 31. Asia-Pacific Hydrogen Needle Valves Consumption Value (2021-2032) & (USD Million)

Figure 32. South America Hydrogen Needle Valves Consumption Value (2021-2032) & (USD Million)

Figure 33. Middle East & Africa Hydrogen Needle Valves Consumption Value (2021-2032) & (USD Million)

Figure 34. Global Hydrogen Needle Valves Sales Quantity Market Share by Type (2021-2032)

Figure 35. Global Hydrogen Needle Valves Consumption Value Market Share by Type (2021-2032)

Figure 36. Global Hydrogen Needle Valves Average Price by Type (2021-2032) & (US\$/Unit)

Figure 37. Global Hydrogen Needle Valves Sales Quantity Market Share by Application (2021-2032)

Figure 38. Global Hydrogen Needle Valves Revenue Market Share by Application (2021-2032)

Figure 39. Global Hydrogen Needle Valves Average Price by Application (2021-2032) & (US\$/Unit)

Figure 40. North America Hydrogen Needle Valves Sales Quantity Market Share by Type (2021-2032)

Figure 41. North America Hydrogen Needle Valves Sales Quantity Market Share by Application (2021-2032)

Figure 42. North America Hydrogen Needle Valves Sales Quantity Market Share by Country (2021-2032)

Figure 43. North America Hydrogen Needle Valves Consumption Value Market Share by Country (2021-2032)

Figure 44. United States Hydrogen Needle Valves Consumption Value (2021-2032) & (USD Million)

Figure 45. Canada Hydrogen Needle Valves Consumption Value (2021-2032) & (USD

Million)

Figure 46. Mexico Hydrogen Needle Valves Consumption Value (2021-2032) & (USD Million)

Figure 47. Europe Hydrogen Needle Valves Sales Quantity Market Share by Type (2021-2032)

Figure 48. Europe Hydrogen Needle Valves Sales Quantity Market Share by Application (2021-2032)

Figure 49. Europe Hydrogen Needle Valves Sales Quantity Market Share by Country (2021-2032)

Figure 50. Europe Hydrogen Needle Valves Consumption Value Market Share by Country (2021-2032)

Figure 51. Germany Hydrogen Needle Valves Consumption Value (2021-2032) & (USD Million)

Figure 52. France Hydrogen Needle Valves Consumption Value (2021-2032) & (USD Million)

Figure 53. United Kingdom Hydrogen Needle Valves Consumption Value (2021-2032) & (USD Million)

Figure 54. Russia Hydrogen Needle Valves Consumption Value (2021-2032) & (USD Million)

Figure 55. Italy Hydrogen Needle Valves Consumption Value (2021-2032) & (USD Million)

Figure 56. Asia-Pacific Hydrogen Needle Valves Sales Quantity Market Share by Type (2021-2032)

Figure 57. Asia-Pacific Hydrogen Needle Valves Sales Quantity Market Share by Application (2021-2032)

Figure 58. Asia-Pacific Hydrogen Needle Valves Sales Quantity Market Share by Region (2021-2032)

Figure 59. Asia-Pacific Hydrogen Needle Valves Consumption Value Market Share by Region (2021-2032)

Figure 60. China Hydrogen Needle Valves Consumption Value (2021-2032) & (USD Million)

Figure 61. Japan Hydrogen Needle Valves Consumption Value (2021-2032) & (USD Million)

Figure 62. South Korea Hydrogen Needle Valves Consumption Value (2021-2032) & (USD Million)

Figure 63. India Hydrogen Needle Valves Consumption Value (2021-2032) & (USD Million)

Figure 64. Southeast Asia Hydrogen Needle Valves Consumption Value (2021-2032) & (USD Million)

- Figure 65. Australia Hydrogen Needle Valves Consumption Value (2021-2032) & (USD Million)
- Figure 66. South America Hydrogen Needle Valves Sales Quantity Market Share by Type (2021-2032)
- Figure 67. South America Hydrogen Needle Valves Sales Quantity Market Share by Application (2021-2032)
- Figure 68. South America Hydrogen Needle Valves Sales Quantity Market Share by Country (2021-2032)
- Figure 69. South America Hydrogen Needle Valves Consumption Value Market Share by Country (2021-2032)
- Figure 70. Brazil Hydrogen Needle Valves Consumption Value (2021-2032) & (USD Million)
- Figure 71. Argentina Hydrogen Needle Valves Consumption Value (2021-2032) & (USD Million)
- Figure 72. Middle East & Africa Hydrogen Needle Valves Sales Quantity Market Share by Type (2021-2032)
- Figure 73. Middle East & Africa Hydrogen Needle Valves Sales Quantity Market Share by Application (2021-2032)
- Figure 74. Middle East & Africa Hydrogen Needle Valves Sales Quantity Market Share by Country (2021-2032)
- Figure 75. Middle East & Africa Hydrogen Needle Valves Consumption Value Market Share by Country (2021-2032)
- Figure 76. Turkey Hydrogen Needle Valves Consumption Value (2021-2032) & (USD Million)
- Figure 77. Egypt Hydrogen Needle Valves Consumption Value (2021-2032) & (USD Million)
- Figure 78. Saudi Arabia Hydrogen Needle Valves Consumption Value (2021-2032) & (USD Million)
- Figure 79. South Africa Hydrogen Needle Valves Consumption Value (2021-2032) & (USD Million)
- Figure 80. Hydrogen Needle Valves Market Drivers
- Figure 81. Hydrogen Needle Valves Market Restraints
- Figure 82. Hydrogen Needle Valves Market Trends
- Figure 83. Porters Five Forces Analysis
- Figure 84. Manufacturing Cost Structure Analysis of Hydrogen Needle Valves in 2025
- Figure 85. Manufacturing Process Analysis of Hydrogen Needle Valves
- Figure 86. Hydrogen Needle Valves Industrial Chain
- Figure 87. Sales Channel: Direct to End-User vs Distributors
- Figure 88. Direct Channel Pros & Cons

Figure 89. Indirect Channel Pros & Cons

Figure 90. Methodology

Figure 91. Research Process and Data Source

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