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Global HVDC Thyristor Valve Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global HVDC Thyristor Valve market size is expected to reach $ 2128 million by 2032, rising at a market growth of 5.0% CAGR during the forecast period (2026-2032).

An HVDC thyristor valve is a line-commutated, series-connected semiconductor valve assembly engineered to withstand high blocking voltage and conduct bulk current in HVDC converter stations. It integrates thyristor levels, valve reactors, damping and grading circuits, optical firing, water cooling, insulation and mechanical support to perform controlled rectification and inversion in high-capacity long-distance transmission and asynchronous interconnection systems.

Key Findings

Performance requirements drive specification-led supplier selection

Application engineering increasingly determines customer value creation

Lifecycle reliability supports durable competitive differentiation

Market Trends

Thyristor-valve development emphasizes ultra-high-voltage capability, lower losses, seismic robustness and predictive diagnostics rather than a change in basic topology. New LCC projects increasingly serve very large renewable and hydropower corridors, while aging fleets create demand for controls, cooling and valve-level refurbishment that

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extends station life.

Market Dynamics

Drivers

Demand is sustained by ultra-high-voltage bulk transmission, asynchronous interconnection and refurbishment of mature line-commutated converter stations where low conduction losses and proven capacity remain decisive. Higher blocking voltage, improved optical firing, lower-loss thyristors, seismic mechanical design, enhanced water cooling and predictive diagnostics are extending power density and service life. Infrastructure and manufacturing investment, tighter customer specifications and the economic value of higher yield or productivity reinforce adoption. Buyers increasingly evaluate qualified operating performance, process stability and lifecycle support rather than a single purchase-price metric.

Restraints

The addressable market depends on a limited number of very large transmission programs, and each project faces long approval, engineering, testing and commissioning cycles. Qualification costs, capital discipline and switching risk lengthen purchasing decisions, particularly where process failure can interrupt production or reduce asset availability. Smaller suppliers also face difficulty funding application laboratories, validation inventory and geographically distributed service teams before revenue reaches scale.

Opportunities

Opportunities remain in new export corridors, valve-tower modernization, control and protection upgrades, localized critical components and lifecycle monitoring for installed fleets. Suppliers can create additional value through modular platforms, application engineering, digital monitoring, predictive maintenance and locally available service. Expansion into underpenetrated regions and replacement of older installed systems provide incremental demand, especially when solutions demonstrate measurable savings in material, energy, downtime or process losses.

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Challenges

Manufacturers must control device matching, insulation coordination, cooling reliability and obsolescence over multi-decade operating lives while meeting project-specific seismic and grid-code requirements. Competitive intensity can compress pricing before suppliers recover development and qualification expenditure. Companies must also manage standards evolution, intellectual-property protection, customer concentration and cyclical capital spending while preserving product quality and long-term spare-parts availability. Sustainable growth therefore depends on disciplined project selection and repeatable delivery, not capacity expansion alone.

Industry Chain Analysis

Upstream value comes from precision components, power or motion-control electronics, specialty materials, sensors and control software. Midstream suppliers integrate engineering, assembly, calibration, testing and project-specific configuration into qualified systems. Downstream customers purchase through long validation cycles and depend on installation, recipes, spares and field service. Profitability therefore reflects intellectual property, manufacturing yield, installed-base service and the ability to manage critical-component supply more than hardware volume alone.

Segment Insights

Suspended valves are widely adopted in high-seismic and ultra-high-voltage projects because mechanical isolation and modular tower construction support insulation coordination and maintenance. Floor-mounted designs remain relevant in established station layouts and some back-to-back schemes. Growth is concentrated in higher-voltage corridors and refurbishment, with opportunity in light-triggered devices, improved heat extraction and online monitoring that lowers forced-outage risk.

Downstream Market Opportunities

The strongest opportunities arise where customers face tighter quality specifications, higher throughput requirements and costly process failures. Suppliers that translate product performance into yield, construction productivity, grid availability or reduced operating consumption can deepen account penetration. Emerging demand favors application engineering, flexible configurations and lifecycle services rather than

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undifferentiated equipment or material supply.

Regional Insights

Asia-Pacific represents the largest demand base because it combines infrastructure or manufacturing investment with extensive local supply chains. China is also the principal incremental market in several applications, while Japan, Europe and North America retain strength in high-specification technology, installed-base replacement and premium service. Regional opportunities differ by standards, customer qualification, local-content policy and service coverage, making localized engineering and dependable support decisive for sustainable expansion.

Competitive Landscape Analysis

Global representative companies include Hitachi Energy, Siemens Energy, GE Vernova, NR Electric, C-EPRI Electric Power Engineering, among others. The field is led by suppliers with proprietary valve engineering, verified ultra-high-voltage references and the ability to coordinate semiconductors, insulation, cooling, control and site commissioning. Global groups compete on bankable project delivery, while Chinese manufacturers combine domestic UHV experience, localized supply chains and competitive engineering cost. Competition is not determined by nominal specifications alone: qualification history, application engineering, manufacturing consistency, delivery reliability and the ability to support customers after installation are central to supplier selection. Larger groups can spread R&D, certification and service investment across broader portfolios and regions, whereas focused specialists can respond faster in technically demanding niches. Cost advantage is sustainable only when it is supported by control of critical inputs, stable quality and efficient logistics. Strategic activity is moving toward platform standardization, regional production, digital service and joint development with key accounts; buyers therefore need to assess suppliers at the consolidated group level when brands or subsidiaries have been integrated.

Report Scope

This report studies the global HVDC Thyristor Valve production, demand, key manufacturers, and key regions.

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This report is a detailed and comprehensive analysis of the world market for HVDC Thyristor Valve 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 HVDC Thyristor Valve that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global HVDC Thyristor Valve total production and demand, 2021-2032, (Units)

Global HVDC Thyristor Valve total production value, 2021-2032, (USD Million)

Global HVDC Thyristor Valve production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global HVDC Thyristor Valve consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: HVDC Thyristor Valve domestic production, consumption, key domestic manufacturers and share

Global HVDC Thyristor Valve production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global HVDC Thyristor Valve production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global HVDC Thyristor Valve production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global HVDC Thyristor Valve 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 Hitachi Energy, Siemens Energy, GE Vernova, NR Electric, C-EPRI Electric Power Engineering, China XD Group, TBEA, Mitsubishi Electric, Toshiba Energy Systems, etc.

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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 HVDC Thyristor Valve market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (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 HVDC Thyristor Valve Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global HVDC Thyristor Valve Market, Segmentation by Type:

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Suspended Valve

Floor-Mounted Valve

Global HVDC Thyristor Valve Market, Segmentation by Triggering:

Electrically Triggered

Light-Triggered

Global HVDC Thyristor Valve Market, Segmentation by DC Voltage:

Below 500 kV

500–800 kV

Above 800 kV

Global HVDC Thyristor Valve Market, Segmentation by Application:

Long-Distance Transmission

Asynchronous Interconnection

Back-to-Back Station

Companies Profiled:

Hitachi Energy

Siemens Energy

GE Vernova

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NR Electric

C-EPRI Electric Power Engineering

China XD Group

TBEA

Mitsubishi Electric

Toshiba Energy Systems

Key Questions Answered:

1. How big is the global HVDC Thyristor Valve market?

2. What is the demand of the global HVDC Thyristor Valve market?

3. What is the year over year growth of the global HVDC Thyristor Valve market?

4. What is the production and production value of the global HVDC Thyristor Valve market?

5. Who are the key producers in the global HVDC Thyristor Valve market?

6. What are the growth factors driving the market demand?

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Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

2.1 World HVDC Thyristor Valve Demand (2021-2032)
2.2 World HVDC Thyristor Valve Consumption by Region
  2.2.1 World HVDC Thyristor Valve Consumption by Region (2021-2026)
  2.2.2 World HVDC Thyristor Valve Consumption Forecast by Region (2027-2032)
2.3 United States HVDC Thyristor Valve Consumption (2021-2032)
2.4 China HVDC Thyristor Valve Consumption (2021-2032)
2.5 Europe HVDC Thyristor Valve Consumption (2021-2032)
2.6 Japan HVDC Thyristor Valve Consumption (2021-2032)
2.7 South Korea HVDC Thyristor Valve Consumption (2021-2032)
2.8 ASEAN HVDC Thyristor Valve Consumption (2021-2032)
2.9 India HVDC Thyristor Valve Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World HVDC Thyristor Valve Production Value by Manufacturer (2021-2026)

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3.2 World HVDC Thyristor Valve Production by Manufacturer (2021-2026)
3.3 World HVDC Thyristor Valve Average Price by Manufacturer (2021-2026)
3.4 HVDC Thyristor Valve Company Evaluation Quadrant
3.5 Industry Rank and Concentration Rate (CR)
3.5.1 Global HVDC Thyristor Valve Industry Rank of Major Manufacturers
3.5.2 Global Concentration Ratios (CR4) for HVDC Thyristor Valve in 2025
3.5.3 Global Concentration Ratios (CR8) for HVDC Thyristor Valve in 2025
3.6 HVDC Thyristor Valve Market: Overall Company Footprint Analysis
3.6.1 HVDC Thyristor Valve Market: Region Footprint
3.6.2 HVDC Thyristor Valve Market: Company Product Type Footprint
3.6.3 HVDC Thyristor Valve 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: HVDC Thyristor Valve Production Value Comparison
4.1.1 United States VS China: HVDC Thyristor Valve Production Value Comparison (2021 & 2025 & 2032)
4.1.2 United States VS China: HVDC Thyristor Valve Production Value Market Share Comparison (2021 & 2025 & 2032)
4.2 United States VS China: HVDC Thyristor Valve Production Comparison
4.2.1 United States VS China: HVDC Thyristor Valve Production Comparison (2021 & 2025 & 2032)
4.2.2 United States VS China: HVDC Thyristor Valve Production Market Share Comparison (2021 & 2025 & 2032)
4.3 United States VS China: HVDC Thyristor Valve Consumption Comparison
4.3.1 United States VS China: HVDC Thyristor Valve Consumption Comparison (2021 & 2025 & 2032)
4.3.2 United States VS China: HVDC Thyristor Valve Consumption Market Share Comparison (2021 & 2025 & 2032)
4.4 United States Based HVDC Thyristor Valve Manufacturers and Market Share, 2021-2026
4.4.1 United States Based HVDC Thyristor Valve Manufacturers, Headquarters and Production Site (States, Country)

+357 96 030922
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4.4.2 United States Based Manufacturers HVDC Thyristor Valve Production Value (2021-2026)
4.4.3 United States Based Manufacturers HVDC Thyristor Valve Production (2021-2026)
4.5 China Based HVDC Thyristor Valve Manufacturers and Market Share
4.5.1 China Based HVDC Thyristor Valve Manufacturers, Headquarters and Production Site (Province, Country)
4.5.2 China Based Manufacturers HVDC Thyristor Valve Production Value (2021-2026)
4.5.3 China Based Manufacturers HVDC Thyristor Valve Production (2021-2026)
4.6 Rest of World Based HVDC Thyristor Valve Manufacturers and Market Share, 2021-2026
4.6.1 Rest of World Based HVDC Thyristor Valve Manufacturers, Headquarters and Production Site (State, Country)
4.6.2 Rest of World Based Manufacturers HVDC Thyristor Valve Production Value (2021-2026)
4.6.3 Rest of World Based Manufacturers HVDC Thyristor Valve Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World HVDC Thyristor Valve Market Size Overview by Type: 2021 VS 2025 VS 2032
5.2 Segment Introduction by Type
5.2.1 Suspended Valve
5.2.2 Floor-Mounted Valve
5.3 Market Segment by Type
5.3.1 World HVDC Thyristor Valve Production by Type (2021-2032)
5.3.2 World HVDC Thyristor Valve Production Value by Type (2021-2032)
5.3.3 World HVDC Thyristor Valve Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY TRIGGERING

6.1 World HVDC Thyristor Valve Market Size Overview by Triggering: 2021 VS 2025 VS 2032
6.2 Segment Introduction by Triggering
6.2.1 Electrically Triggered
6.2.2 Light-Triggered
6.3 Market Segment by Triggering

+357 96 030922
info@marketpublishers.com

6.3.1 World HVDC Thyristor Valve Production by Triggering (2021-2032)
6.3.2 World HVDC Thyristor Valve Production Value by Triggering (2021-2032)
6.3.3 World HVDC Thyristor Valve Average Price by Triggering (2021-2032)

7 MARKET ANALYSIS BY DC VOLTAGE

7.1 World HVDC Thyristor Valve Market Size Overview by DC Voltage: 2021 VS 2025 VS 2032
7.2 Segment Introduction by DC Voltage
7.2.1 Below 500 kV
7.2.2 500–800 kV
7.2.3 Above 800 kV
7.3 Market Segment by DC Voltage
7.3.1 World HVDC Thyristor Valve Production by DC Voltage (2021-2032)
7.3.2 World HVDC Thyristor Valve Production Value by DC Voltage (2021-2032)
7.3.3 World HVDC Thyristor Valve Average Price by DC Voltage (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World HVDC Thyristor Valve Market Size Overview by Application: 2021 VS 2025 VS 2032
8.2 Segment Introduction by Application
8.2.1 Long-Distance Transmission
8.2.2 Asynchronous Interconnection
8.2.3 Back-to-Back Station
8.3 Market Segment by Application
8.3.1 World HVDC Thyristor Valve Production by Application (2021-2032)
8.3.2 World HVDC Thyristor Valve Production Value by Application (2021-2032)
8.3.3 World HVDC Thyristor Valve Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Hitachi Energy
9.1.1 Hitachi Energy Details
9.1.2 Hitachi Energy Major Business
9.1.3 Hitachi Energy HVDC Thyristor Valve Product and Services
9.1.4 Hitachi Energy HVDC Thyristor Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.1.5 Hitachi Energy Recent Developments/Updates

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9.1.6 Hitachi Energy Competitive Strengths & Weaknesses
9.2 Siemens Energy
9.2.1 Siemens Energy Details
9.2.2 Siemens Energy Major Business
9.2.3 Siemens Energy HVDC Thyristor Valve Product and Services
9.2.4 Siemens Energy HVDC Thyristor Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.2.5 Siemens Energy Recent Developments/Updates
9.2.6 Siemens Energy Competitive Strengths & Weaknesses
9.3 GE Vernova
9.3.1 GE Vernova Details
9.3.2 GE Vernova Major Business
9.3.3 GE Vernova HVDC Thyristor Valve Product and Services
9.3.4 GE Vernova HVDC Thyristor Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.3.5 GE Vernova Recent Developments/Updates
9.3.6 GE Vernova Competitive Strengths & Weaknesses
9.4 NR Electric
9.4.1 NR Electric Details
9.4.2 NR Electric Major Business
9.4.3 NR Electric HVDC Thyristor Valve Product and Services
9.4.4 NR Electric HVDC Thyristor Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.4.5 NR Electric Recent Developments/Updates
9.4.6 NR Electric Competitive Strengths & Weaknesses
9.5 C-EPRI Electric Power Engineering
9.5.1 C-EPRI Electric Power Engineering Details
9.5.2 C-EPRI Electric Power Engineering Major Business
9.5.3 C-EPRI Electric Power Engineering HVDC Thyristor Valve Product and Services
9.5.4 C-EPRI Electric Power Engineering HVDC Thyristor Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.5.5 C-EPRI Electric Power Engineering Recent Developments/Updates
9.5.6 C-EPRI Electric Power Engineering Competitive Strengths & Weaknesses
9.6 China XD Group
9.6.1 China XD Group Details
9.6.2 China XD Group Major Business
9.6.3 China XD Group HVDC Thyristor Valve Product and Services
9.6.4 China XD Group HVDC Thyristor Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)

+357 96 030922
info@marketpublishers.com

9.6.5 China XD Group Recent Developments/Updates
9.6.6 China XD Group Competitive Strengths & Weaknesses
9.7 TBEA
9.7.1 TBEA Details
9.7.2 TBEA Major Business
9.7.3 TBEA HVDC Thyristor Valve Product and Services
9.7.4 TBEA HVDC Thyristor Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.7.5 TBEA Recent Developments/Updates
9.7.6 TBEA Competitive Strengths & Weaknesses
9.8 Mitsubishi Electric
9.8.1 Mitsubishi Electric Details
9.8.2 Mitsubishi Electric Major Business
9.8.3 Mitsubishi Electric HVDC Thyristor Valve Product and Services
9.8.4 Mitsubishi Electric HVDC Thyristor Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.8.5 Mitsubishi Electric Recent Developments/Updates
9.8.6 Mitsubishi Electric Competitive Strengths & Weaknesses
9.9 Toshiba Energy Systems
9.9.1 Toshiba Energy Systems Details
9.9.2 Toshiba Energy Systems Major Business
9.9.3 Toshiba Energy Systems HVDC Thyristor Valve Product and Services
9.9.4 Toshiba Energy Systems HVDC Thyristor Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.9.5 Toshiba Energy Systems Recent Developments/Updates
9.9.6 Toshiba Energy Systems Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 HVDC Thyristor Valve Industry Chain
10.2 HVDC Thyristor Valve Upstream Analysis
10.2.1 HVDC Thyristor Valve Core Raw Materials
10.2.2 Main Manufacturers of HVDC Thyristor Valve Core Raw Materials
10.3 Midstream Analysis
10.4 Downstream Analysis
10.5 HVDC Thyristor Valve Production Mode
10.6 HVDC Thyristor Valve Procurement Model
10.7 HVDC Thyristor Valve Industry Sales Model and Sales Channels
10.7.1 HVDC Thyristor Valve Sales Model

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info@marketpublishers.com

10.7.2 HVDC Thyristor Valve Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology
12.2 Research Process and Data Source
12.3 Disclaimer

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List Of Tables

LIST OF TABLES

Table 1. World HVDC Thyristor Valve Production Value by Region (2021, 2025 and 2032) & (USD Million)
Table 2. World HVDC Thyristor Valve Production Value by Region (2021-2026) & (USD Million)
Table 3. World HVDC Thyristor Valve Production Value by Region (2027-2032) & (USD Million)
Table 4. World HVDC Thyristor Valve Production Value Market Share by Region (2021-2026)
Table 5. World HVDC Thyristor Valve Production Value Market Share by Region (2027-2032)
Table 6. World HVDC Thyristor Valve Production by Region (2021-2026) & (Units)
Table 7. World HVDC Thyristor Valve Production by Region (2027-2032) & (Units)
Table 8. World HVDC Thyristor Valve Production Market Share by Region (2021-2026)
Table 9. World HVDC Thyristor Valve Production Market Share by Region (2027-2032)
Table 10. World HVDC Thyristor Valve Average Price by Region (2021-2026) & (US$/Unit)
Table 11. World HVDC Thyristor Valve Average Price by Region (2027-2032) & (US$/Unit)
Table 12. HVDC Thyristor Valve Major Market Trends
Table 13. World HVDC Thyristor Valve Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)
Table 14. World HVDC Thyristor Valve Consumption by Region (2021-2026) & (Units)
Table 15. World HVDC Thyristor Valve Consumption Forecast by Region (2027-2032) & (Units)
Table 16. World HVDC Thyristor Valve Production Value by Manufacturer (2021-2026) & (USD Million)
Table 17. Production Value Market Share of Key HVDC Thyristor Valve Producers in 2025
Table 18. World HVDC Thyristor Valve Production by Manufacturer (2021-2026) & (Units)
Table 19. Production Market Share of Key HVDC Thyristor Valve Producers in 2025
Table 20. World HVDC Thyristor Valve Average Price by Manufacturer (2021-2026) & (US$/Unit)
Table 21. Global HVDC Thyristor Valve Company Evaluation Quadrant
Table 22. World HVDC Thyristor Valve Industry Rank of Major Manufacturers, Based on

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Production Value in 2025
Table 23. Head Office and HVDC Thyristor Valve Production Site of Key Manufacturer
Table 24. HVDC Thyristor Valve Market: Company Product Type Footprint
Table 25. HVDC Thyristor Valve Market: Company Product Application Footprint
Table 26. HVDC Thyristor Valve Competitive Factors
Table 27. HVDC Thyristor Valve New Entrant and Capacity Expansion Plans
Table 28. HVDC Thyristor Valve Mergers & Acquisitions Activity
Table 29. United States VS China HVDC Thyristor Valve Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China HVDC Thyristor Valve Production Comparison, (2021 & 2025 & 2032) & (Units)
Table 31. United States VS China HVDC Thyristor Valve Consumption Comparison, (2021 & 2025 & 2032) & (Units)
Table 32. United States Based HVDC Thyristor Valve Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers HVDC Thyristor Valve Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers HVDC Thyristor Valve Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers HVDC Thyristor Valve Production (2021-2026) & (Units)
Table 36. United States Based Manufacturers HVDC Thyristor Valve Production Market Share (2021-2026)
Table 37. China Based HVDC Thyristor Valve Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers HVDC Thyristor Valve Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers HVDC Thyristor Valve Production Value Market Share (2021-2026)
Table 40. China Based Manufacturers HVDC Thyristor Valve Production, (2021-2026) & (Units)
Table 41. China Based Manufacturers HVDC Thyristor Valve Production Market Share (2021-2026)
Table 42. Rest of World Based HVDC Thyristor Valve Manufacturers, Headquarters and Production Site (State, Country)
Table 43. Rest of World Based Manufacturers HVDC Thyristor Valve Production Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers HVDC Thyristor Valve Production Value Market Share (2021-2026)

+357 96 030922
info@marketpublishers.com

Table 45. Rest of World Based Manufacturers HVDC Thyristor Valve Production, (2021-2026) & (Units)
Table 46. Rest of World Based Manufacturers HVDC Thyristor Valve Production Market Share (2021-2026)
Table 47. World HVDC Thyristor Valve Production Value by Type, (USD Million), 2021 & 2025 & 2032
Table 48. World HVDC Thyristor Valve Production by Type (2021-2026) & (Units)
Table 49. World HVDC Thyristor Valve Production by Type (2027-2032) & (Units)
Table 50. World HVDC Thyristor Valve Production Value by Type (2021-2026) & (USD Million)
Table 51. World HVDC Thyristor Valve Production Value by Type (2027-2032) & (USD Million)
Table 52. World HVDC Thyristor Valve Average Price by Type (2021-2026) & (US$/Unit)
Table 53. World HVDC Thyristor Valve Average Price by Type (2027-2032) & (US$/Unit)
Table 54. World HVDC Thyristor Valve Production Value by Triggering, (USD Million), 2021 & 2025 & 2032
Table 55. World HVDC Thyristor Valve Production by Triggering (2021-2026) & (Units)
Table 56. World HVDC Thyristor Valve Production by Triggering (2027-2032) & (Units)
Table 57. World HVDC Thyristor Valve Production Value by Triggering (2021-2026) & (USD Million)
Table 58. World HVDC Thyristor Valve Production Value by Triggering (2027-2032) & (USD Million)
Table 59. World HVDC Thyristor Valve Average Price by Triggering (2021-2026) & (US$/Unit)
Table 60. World HVDC Thyristor Valve Average Price by Triggering (2027-2032) & (US$/Unit)
Table 61. World HVDC Thyristor Valve Production Value by DC Voltage, (USD Million), 2021 & 2025 & 2032
Table 62. World HVDC Thyristor Valve Production by DC Voltage (2021-2026) & (Units)
Table 63. World HVDC Thyristor Valve Production by DC Voltage (2027-2032) & (Units)
Table 64. World HVDC Thyristor Valve Production Value by DC Voltage (2021-2026) & (USD Million)
Table 65. World HVDC Thyristor Valve Production Value by DC Voltage (2027-2032) & (USD Million)
Table 66. World HVDC Thyristor Valve Average Price by DC Voltage (2021-2026) & (US$/Unit)
Table 67. World HVDC Thyristor Valve Average Price by DC Voltage (2027-2032) &

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(US$/Unit)
Table 68. World HVDC Thyristor Valve Production Value by Application, (USD Million), 2021 & 2025 & 2032
Table 69. World HVDC Thyristor Valve Production by Application (2021-2026) & (Units)
Table 70. World HVDC Thyristor Valve Production by Application (2027-2032) & (Units)
Table 71. World HVDC Thyristor Valve Production Value by Application (2021-2026) & (USD Million)
Table 72. World HVDC Thyristor Valve Production Value by Application (2027-2032) & (USD Million)
Table 73. World HVDC Thyristor Valve Average Price by Application (2021-2026) & (US$/Unit)
Table 74. World HVDC Thyristor Valve Average Price by Application (2027-2032) & (US$/Unit)
Table 75. Hitachi Energy Basic Information, Manufacturing Base and Competitors
Table 76. Hitachi Energy Major Business
Table 77. Hitachi Energy HVDC Thyristor Valve Product and Services
Table 78. Hitachi Energy HVDC Thyristor Valve Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 79. Hitachi Energy Recent Developments/Updates
Table 80. Hitachi Energy Competitive Strengths & Weaknesses
Table 81. Siemens Energy Basic Information, Manufacturing Base and Competitors
Table 82. Siemens Energy Major Business
Table 83. Siemens Energy HVDC Thyristor Valve Product and Services
Table 84. Siemens Energy HVDC Thyristor Valve Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 85. Siemens Energy Recent Developments/Updates
Table 86. Siemens Energy Competitive Strengths & Weaknesses
Table 87. GE Vernova Basic Information, Manufacturing Base and Competitors
Table 88. GE Vernova Major Business
Table 89. GE Vernova HVDC Thyristor Valve Product and Services
Table 90. GE Vernova HVDC Thyristor Valve Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. GE Vernova Recent Developments/Updates
Table 92. GE Vernova Competitive Strengths & Weaknesses
Table 93. NR Electric Basic Information, Manufacturing Base and Competitors
Table 94. NR Electric Major Business
Table 95. NR Electric HVDC Thyristor Valve Product and Services
Table 96. NR Electric HVDC Thyristor Valve Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

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Table 97. NR Electric Recent Developments/Updates
Table 98. NR Electric Competitive Strengths & Weaknesses
Table 99. C-EPRI Electric Power Engineering Basic Information, Manufacturing Base and Competitors
Table 100. C-EPRI Electric Power Engineering Major Business
Table 101. C-EPRI Electric Power Engineering HVDC Thyristor Valve Product and Services
Table 102. C-EPRI Electric Power Engineering HVDC Thyristor Valve Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. C-EPRI Electric Power Engineering Recent Developments/Updates
Table 104. C-EPRI Electric Power Engineering Competitive Strengths & Weaknesses
Table 105. China XD Group Basic Information, Manufacturing Base and Competitors
Table 106. China XD Group Major Business
Table 107. China XD Group HVDC Thyristor Valve Product and Services
Table 108. China XD Group HVDC Thyristor Valve Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. China XD Group Recent Developments/Updates
Table 110. China XD Group Competitive Strengths & Weaknesses
Table 111. TBEA Basic Information, Manufacturing Base and Competitors
Table 112. TBEA Major Business
Table 113. TBEA HVDC Thyristor Valve Product and Services
Table 114. TBEA HVDC Thyristor Valve Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. TBEA Recent Developments/Updates
Table 116. TBEA Competitive Strengths & Weaknesses
Table 117. Mitsubishi Electric Basic Information, Manufacturing Base and Competitors
Table 118. Mitsubishi Electric Major Business
Table 119. Mitsubishi Electric HVDC Thyristor Valve Product and Services
Table 120. Mitsubishi Electric HVDC Thyristor Valve Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. Mitsubishi Electric Recent Developments/Updates
Table 122. Mitsubishi Electric Competitive Strengths & Weaknesses
Table 123. Toshiba Energy Systems Basic Information, Manufacturing Base and Competitors
Table 124. Toshiba Energy Systems Major Business
Table 125. Toshiba Energy Systems HVDC Thyristor Valve Product and Services
Table 126. Toshiba Energy Systems HVDC Thyristor Valve Production (Units), Price

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(US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 127. Toshiba Energy Systems Recent Developments/Updates
Table 128. Toshiba Energy Systems Competitive Strengths & Weaknesses
Table 129. Global Key Players of HVDC Thyristor Valve Upstream (Raw Materials)
Table 130. Global HVDC Thyristor Valve Typical Customers
Table 131. HVDC Thyristor Valve Typical Distributors

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List Of Figures

LIST OF FIGURES

Figure 1. HVDC Thyristor Valve Picture
Figure 2. World HVDC Thyristor Valve Production Value: 2021 & 2025 & 2032, (USD Million)
Figure 3. World HVDC Thyristor Valve Production Value and Forecast (2021-2032) & (USD Million)
Figure 4. World HVDC Thyristor Valve Production (2021-2032) & (Units)
Figure 5. World HVDC Thyristor Valve Average Price (2021-2032) & (US$/Unit)
Figure 6. World HVDC Thyristor Valve Production Value Market Share by Region (2021-2032)
Figure 7. World HVDC Thyristor Valve Production Market Share by Region (2021-2032)
Figure 8. North America HVDC Thyristor Valve Production (2021-2032) & (Units)
Figure 9. Europe HVDC Thyristor Valve Production (2021-2032) & (Units)
Figure 10. China HVDC Thyristor Valve Production (2021-2032) & (Units)
Figure 11. Japan HVDC Thyristor Valve Production (2021-2032) & (Units)
Figure 12. HVDC Thyristor Valve Market Drivers
Figure 13. Factors Affecting Demand
Figure 14. World HVDC Thyristor Valve Consumption (2021-2032) & (Units)
Figure 15. World HVDC Thyristor Valve Consumption Market Share by Region (2021-2032)
Figure 16. United States HVDC Thyristor Valve Consumption (2021-2032) & (Units)
Figure 17. China HVDC Thyristor Valve Consumption (2021-2032) & (Units)
Figure 18. Europe HVDC Thyristor Valve Consumption (2021-2032) & (Units)
Figure 19. Japan HVDC Thyristor Valve Consumption (2021-2032) & (Units)
Figure 20. South Korea HVDC Thyristor Valve Consumption (2021-2032) & (Units)
Figure 21. ASEAN HVDC Thyristor Valve Consumption (2021-2032) & (Units)
Figure 22. India HVDC Thyristor Valve Consumption (2021-2032) & (Units)
Figure 23. Producer Shipments of HVDC Thyristor Valve by Manufacturer Revenue ($MM) and Market Share (%): 2025
Figure 24. Global Four-firm Concentration Ratios (CR4) for HVDC Thyristor Valve Markets in 2025
Figure 25. Global Four-firm Concentration Ratios (CR8) for HVDC Thyristor Valve Markets in 2025
Figure 26. United States VS China: HVDC Thyristor Valve Production Value Market Share Comparison (2021 & 2025 & 2032)
Figure 27. United States VS China: HVDC Thyristor Valve Production Market Share

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Comparison (2021 & 2025 & 2032)
Figure 28. United States VS China: HVDC Thyristor Valve Consumption Market Share Comparison (2021 & 2025 & 2032)
Figure 29. United States Based Manufacturers HVDC Thyristor Valve Production Market Share 2025
Figure 30. China Based Manufacturers HVDC Thyristor Valve Production Market Share 2025
Figure 31. Rest of World Based Manufacturers HVDC Thyristor Valve Production Market Share 2025
Figure 32. World HVDC Thyristor Valve Production Value by Type, (USD Million), 2021 & 2025 & 2032
Figure 33. World HVDC Thyristor Valve Production Value Market Share by Type in 2025
Figure 34. Suspended Valve
Figure 35. Floor-Mounted Valve
Figure 36. World HVDC Thyristor Valve Production Market Share by Type (2021-2032)
Figure 37. World HVDC Thyristor Valve Production Value Market Share by Type (2021-2032)
Figure 38. World HVDC Thyristor Valve Average Price by Type (2021-2032) & (US$/Unit)
Figure 39. World HVDC Thyristor Valve Production Value by Triggering, (USD Million), 2021 & 2025 & 2032
Figure 40. World HVDC Thyristor Valve Production Value Market Share by Triggering in 2025
Figure 41. Electrically Triggered
Figure 42. Light-Triggered
Figure 43. World HVDC Thyristor Valve Production Market Share by Triggering (2021-2032)
Figure 44. World HVDC Thyristor Valve Production Value Market Share by Triggering (2021-2032)
Figure 45. World HVDC Thyristor Valve Average Price by Triggering (2021-2032) & (US$/Unit)
Figure 46. World HVDC Thyristor Valve Production Value by DC Voltage, (USD Million), 2021 & 2025 & 2032
Figure 47. World HVDC Thyristor Valve Production Value Market Share by DC Voltage in 2025
Figure 48. Below 500 kV
Figure 49. 500–800 kV
Figure 50. Above 800 kV

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Figure 51. World HVDC Thyristor Valve Production Market Share by DC Voltage (2021-2032)
Figure 52. World HVDC Thyristor Valve Production Value Market Share by DC Voltage (2021-2032)
Figure 53. World HVDC Thyristor Valve Average Price by DC Voltage (2021-2032) & (US$/Unit)
Figure 54. World HVDC Thyristor Valve Production Value by Application, (USD Million), 2021 & 2025 & 2032
Figure 55. World HVDC Thyristor Valve Production Value Market Share by Application in 2025
Figure 56. Long-Distance Transmission
Figure 57. Asynchronous Interconnection
Figure 58. Back-to-Back Station
Figure 59. World HVDC Thyristor Valve Production Market Share by Application (2021-2032)
Figure 60. World HVDC Thyristor Valve Production Value Market Share by Application (2021-2032)
Figure 61. World HVDC Thyristor Valve Average Price by Application (2021-2032) & (US$/Unit)
Figure 62. HVDC Thyristor Valve Industry Chain
Figure 63. HVDC Thyristor Valve Procurement Model
Figure 64. HVDC Thyristor Valve Sales Model
Figure 65. HVDC Thyristor Valve Sales Channels, Direct Sales, and Distribution
Figure 66. Methodology
Figure 67. Research Process and Data Source

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