

Global Thermodynamic Steam Traps 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 Thermodynamic Steam Traps market size was valued at US\$ 165 million in 2025 and is forecast to a readjusted size of US\$ 226 million by 2032 with a CAGR of 4.2% during review period.

In 2025, global Thermodynamic Steam Traps production reached approximately 725,000 units with average price of 221USD/Unit.

Thermodynamic steam traps are automatic condensate-discharge devices that operate based on differences in velocity, pressure, and thermodynamic conditions between steam and condensate. Disc-type steam traps represent the dominant product category, while impulse-type and piston-type designs account for a smaller share of the market. When condensate enters the trap body, the disc rises and allows the liquid to discharge. As high-velocity flash steam flows beneath the disc, pressure changes cause the disc to close, minimizing the loss of live steam. Thermodynamic steam traps are compact, easy to install, resistant to water hammer, and suitable for high-temperature and high-pressure environments. They are widely used in steam mains, tracing lines, heat-transfer equipment, petrochemical plants, power stations, and general industrial steam systems.

The upstream segment of the thermodynamic steam trap industry includes stainless steel, carbon steel, alloy steel, forged valve components, discs, valve seats, strainers, seals, connectors, precision-machining equipment, and heat-treatment systems. Midstream manufacturers are responsible for valve-body design, material selection, forging or casting, machining, disc grinding, surface-hardening treatment, assembly, pressure testing, leakage testing, and condensate-discharge capacity testing. Products

are developed according to operating pressure, temperature, nominal size, and connection type. Common configurations include threaded, flanged, welded, and universal-connector steam traps. Downstream customers include petrochemical companies, chemical producers, power plants, food and beverage processors, pharmaceutical manufacturers, textile mills, paper producers, HVAC contractors, and industrial steam-tracing system operators.

The global thermodynamic steam trap market is expected to maintain steady growth over the coming years. These products are compact, durable, and capable of operating under relatively high pressure, making them particularly suitable for steam mains, outdoor tracing systems, high-temperature equipment, and industrial applications requiring frequent condensate discharge. Demand will continue to benefit from energy-efficiency programs, steam-leakage reduction initiatives, plant modernization, and stricter maintenance requirements across petrochemical, chemical, power-generation, food-processing, and pharmaceutical industries.

Market competition is gradually shifting from basic price competition toward condensate-discharge efficiency, wear resistance, water-hammer tolerance, steam-loss reduction, reliability, and ease of maintenance. High-pressure alloy-steel traps, stainless-steel corrosion-resistant products, universal-connector models, and smart steam traps equipped with online monitoring functions are expected to gain wider adoption. Asia-Pacific will remain a major growth region, supported by industrial expansion in China, India, and Southeast Asia. North America, Europe, and Japan will mainly be driven by replacement demand, energy-efficiency upgrades, and digital maintenance initiatives. Overall, the market has a stable aftermarket foundation and will continue to benefit from the need to improve industrial steam-system efficiency.

This report is a detailed and comprehensive analysis for global Thermodynamic Steam Traps 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 Thermodynamic Steam Traps market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Thermodynamic Steam Traps 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 Thermodynamic Steam Traps 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 Thermodynamic Steam Traps 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 Thermodynamic Steam Traps

- 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 Thermodynamic Steam Traps 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 Spirax Group plc (United Kingdom), Armstrong International, Inc. (United States), Emerson Electric Co. (United States), Xylem Inc. (United States), Richards Industries (United States), Watson McDaniel Company (United States), Velan Inc. (Canada), ARI-Armaturen Albert Richter GmbH & Co. KG (Germany), Valsteam ADCA Engineering S.A. (Portugal), Ayvaz (Türkiye), etc.

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

Market Segmentation

Thermodynamic Steam Traps 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

Cast Iron Steam Traps

Carbon Steel Steam Traps

Stainless Steel Steam Traps

Alloy Steel Steam Traps

Others

Market segment by Pressure

? 1.6 MPa

> 1.6 MPa and ? 4.0 MPa

> 4.0 MPa

Market segment by Connection

Threaded

Flanged

Welded

Other Connections

Market segment by Application

Oil & Petrochemical

Power Industry

Pharmaceutical

Food & Beverage

Pulp & Paper

General Industry

Others

Major players covered

Spirax Group plc (United Kingdom)

Armstrong International, Inc. (United States)

Emerson Electric Co. (United States)

Xylem Inc. (United States)

Richards Industrials (United States)

Watson McDaniel Company (United States)

Velan Inc. (Canada)

ARI-Armaturen Albert Richter GmbH & Co. KG (Germany)

Valsteam ADCA Engineering S.A. (Portugal)

Ayvaz (Türkiye)

Forbes Marshall Pvt. Ltd. (India)

Thermax Limited (India)

Pennant Engineering Pvt. Ltd. (India)

Uni Klinger Limited (India)

TLV Co., Ltd. (Japan)

MIYAWAKI Inc. (Japan)

VENN Co., Ltd. (Japan)

Yoshitake Inc. (Japan)

Huai An Hardware Co., Ltd. / DSC (Taiwan, China)

Yingqiao Machinery Manufacture Co., Ltd. (China)

Gansu Hongfeng Machinery Co., Ltd. (China)

Beijing Water-Dispersing Valve Factory (China)

Zhejiang Lonze Valve Co., Ltd. (China)

Zhejiang Newton Fluid Control Co., Ltd. / VMV (China)

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 Thermodynamic Steam Traps product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Thermodynamic Steam Traps, with price, sales quantity, revenue, and global market share of Thermodynamic Steam Traps from 2021 to 2026.

Chapter 3, the Thermodynamic Steam Traps competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Thermodynamic Steam Traps 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 Thermodynamic Steam Traps 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 Thermodynamic Steam Traps.

Chapter 14 and 15, to describe Thermodynamic Steam Traps 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 Thermodynamic Steam Traps Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Cast Iron Steam Traps

1.3.3 Carbon Steel Steam Traps

1.3.4 Stainless Steel Steam Traps

1.3.5 Alloy Steel Steam Traps

1.3.6 Others

1.4 Market Analysis by Pressure

1.4.1 Overview: Global Thermodynamic Steam Traps Consumption Value by Pressure: 2021 Versus 2025 Versus 2032

1.4.2 ? 1.6 MPa

1.4.3 > 1.6 MPa and ? 4.0 MPa

1.4.4 > 4.0 MPa

1.5 Market Analysis by Connection

1.5.1 Overview: Global Thermodynamic Steam Traps Consumption Value by Connection: 2021 Versus 2025 Versus 2032

1.5.2 Threaded

1.5.3 Flanged

1.5.4 Welded

1.5.5 Other Connections

1.6 Market Analysis by Application

1.6.1 Overview: Global Thermodynamic Steam Traps Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Oil & Petrochemical

1.6.3 Power Industry

1.6.4 Pharmaceutical

1.6.5 Food & Beverage

1.6.6 Pulp & Paper

1.6.7 General Industry

1.6.8 Others

1.7 Global Thermodynamic Steam Traps Market Size & Forecast

1.7.1 Global Thermodynamic Steam Traps Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Thermodynamic Steam Traps Sales Quantity (2021-2032)

1.7.3 Global Thermodynamic Steam Traps Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Spirax Group plc (United Kingdom)

2.1.1 Spirax Group plc (United Kingdom) Details

2.1.2 Spirax Group plc (United Kingdom) Major Business

2.1.3 Spirax Group plc (United Kingdom) Thermodynamic Steam Traps Product and Services

2.1.4 Spirax Group plc (United Kingdom) Thermodynamic Steam Traps Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Spirax Group plc (United Kingdom) Recent Developments/Updates

2.2 Armstrong International, Inc. (United States)

2.2.1 Armstrong International, Inc. (United States) Details

2.2.2 Armstrong International, Inc. (United States) Major Business

2.2.3 Armstrong International, Inc. (United States) Thermodynamic Steam Traps Product and Services

2.2.4 Armstrong International, Inc. (United States) Thermodynamic Steam Traps Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Armstrong International, Inc. (United States) Recent Developments/Updates

2.3 Emerson Electric Co. (United States)

2.3.1 Emerson Electric Co. (United States) Details

2.3.2 Emerson Electric Co. (United States) Major Business

2.3.3 Emerson Electric Co. (United States) Thermodynamic Steam Traps Product and Services

2.3.4 Emerson Electric Co. (United States) Thermodynamic Steam Traps Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Emerson Electric Co. (United States) Recent Developments/Updates

2.4 Xylem Inc. (United States)

2.4.1 Xylem Inc. (United States) Details

2.4.2 Xylem Inc. (United States) Major Business

2.4.3 Xylem Inc. (United States) Thermodynamic Steam Traps Product and Services

2.4.4 Xylem Inc. (United States) Thermodynamic Steam Traps Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Xylem Inc. (United States) Recent Developments/Updates

2.5 Richards Industries (United States)

2.5.1 Richards Industries (United States) Details

2.5.2 Richards Industries (United States) Major Business

2.5.3 Richards Industrials (United States) Thermodynamic Steam Traps Product and Services

2.5.4 Richards Industrials (United States) Thermodynamic Steam Traps Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 Richards Industrials (United States) Recent Developments/Updates

2.6 Watson McDaniel Company (United States)

2.6.1 Watson McDaniel Company (United States) Details

2.6.2 Watson McDaniel Company (United States) Major Business

2.6.3 Watson McDaniel Company (United States) Thermodynamic Steam Traps Product and Services

2.6.4 Watson McDaniel Company (United States) Thermodynamic Steam Traps Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 Watson McDaniel Company (United States) Recent Developments/Updates

2.7 Velan Inc. (Canada)

2.7.1 Velan Inc. (Canada) Details

2.7.2 Velan Inc. (Canada) Major Business

2.7.3 Velan Inc. (Canada) Thermodynamic Steam Traps Product and Services

2.7.4 Velan Inc. (Canada) Thermodynamic Steam Traps Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 Velan Inc. (Canada) Recent Developments/Updates

2.8 ARI-Armaturen Albert Richter GmbH & Co. KG (Germany)

2.8.1 ARI-Armaturen Albert Richter GmbH & Co. KG (Germany) Details

2.8.2 ARI-Armaturen Albert Richter GmbH & Co. KG (Germany) Major Business

2.8.3 ARI-Armaturen Albert Richter GmbH & Co. KG (Germany) Thermodynamic Steam Traps Product and Services

2.8.4 ARI-Armaturen Albert Richter GmbH & Co. KG (Germany) Thermodynamic Steam Traps Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 ARI-Armaturen Albert Richter GmbH & Co. KG (Germany) Recent Developments/Updates

2.9 Valsteam ADCA Engineering S.A. (Portugal)

2.9.1 Valsteam ADCA Engineering S.A. (Portugal) Details

2.9.2 Valsteam ADCA Engineering S.A. (Portugal) Major Business

2.9.3 Valsteam ADCA Engineering S.A. (Portugal) Thermodynamic Steam Traps Product and Services

2.9.4 Valsteam ADCA Engineering S.A. (Portugal) Thermodynamic Steam Traps Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 Valsteam ADCA Engineering S.A. (Portugal) Recent Developments/Updates

2.10 Ayvaz (Türkiye)

- 2.10.1 Ayvaz (Türkiye) Details
- 2.10.2 Ayvaz (Türkiye) Major Business
- 2.10.3 Ayvaz (Türkiye) Thermodynamic Steam Traps Product and Services
- 2.10.4 Ayvaz (Türkiye) Thermodynamic Steam Traps Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.10.5 Ayvaz (Türkiye) Recent Developments/Updates
- 2.11 Forbes Marshall Pvt. Ltd. (India)
 - 2.11.1 Forbes Marshall Pvt. Ltd. (India) Details
 - 2.11.2 Forbes Marshall Pvt. Ltd. (India) Major Business
 - 2.11.3 Forbes Marshall Pvt. Ltd. (India) Thermodynamic Steam Traps Product and Services
 - 2.11.4 Forbes Marshall Pvt. Ltd. (India) Thermodynamic Steam Traps Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.11.5 Forbes Marshall Pvt. Ltd. (India) Recent Developments/Updates
- 2.12 Thermax Limited (India)
 - 2.12.1 Thermax Limited (India) Details
 - 2.12.2 Thermax Limited (India) Major Business
 - 2.12.3 Thermax Limited (India) Thermodynamic Steam Traps Product and Services
 - 2.12.4 Thermax Limited (India) Thermodynamic Steam Traps Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.12.5 Thermax Limited (India) Recent Developments/Updates
- 2.13 Pennant Engineering Pvt. Ltd. (India)
 - 2.13.1 Pennant Engineering Pvt. Ltd. (India) Details
 - 2.13.2 Pennant Engineering Pvt. Ltd. (India) Major Business
 - 2.13.3 Pennant Engineering Pvt. Ltd. (India) Thermodynamic Steam Traps Product and Services
 - 2.13.4 Pennant Engineering Pvt. Ltd. (India) Thermodynamic Steam Traps Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.13.5 Pennant Engineering Pvt. Ltd. (India) Recent Developments/Updates
- 2.14 Uni Klinger Limited (India)
 - 2.14.1 Uni Klinger Limited (India) Details
 - 2.14.2 Uni Klinger Limited (India) Major Business
 - 2.14.3 Uni Klinger Limited (India) Thermodynamic Steam Traps Product and Services
 - 2.14.4 Uni Klinger Limited (India) Thermodynamic Steam Traps Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.14.5 Uni Klinger Limited (India) Recent Developments/Updates
- 2.15 TLV Co., Ltd. (Japan)
 - 2.15.1 TLV Co., Ltd. (Japan) Details
 - 2.15.2 TLV Co., Ltd. (Japan) Major Business

- 2.15.3 TLV Co., Ltd. (Japan) Thermodynamic Steam Traps Product and Services
- 2.15.4 TLV Co., Ltd. (Japan) Thermodynamic Steam Traps Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.15.5 TLV Co., Ltd. (Japan) Recent Developments/Updates
- 2.16 MIYAWAKI Inc. (Japan)
 - 2.16.1 MIYAWAKI Inc. (Japan) Details
 - 2.16.2 MIYAWAKI Inc. (Japan) Major Business
 - 2.16.3 MIYAWAKI Inc. (Japan) Thermodynamic Steam Traps Product and Services
 - 2.16.4 MIYAWAKI Inc. (Japan) Thermodynamic Steam Traps Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.16.5 MIYAWAKI Inc. (Japan) Recent Developments/Updates
- 2.17 VENN Co., Ltd. (Japan)
 - 2.17.1 VENN Co., Ltd. (Japan) Details
 - 2.17.2 VENN Co., Ltd. (Japan) Major Business
 - 2.17.3 VENN Co., Ltd. (Japan) Thermodynamic Steam Traps Product and Services
 - 2.17.4 VENN Co., Ltd. (Japan) Thermodynamic Steam Traps Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.17.5 VENN Co., Ltd. (Japan) Recent Developments/Updates
- 2.18 Yoshitake Inc. (Japan)
 - 2.18.1 Yoshitake Inc. (Japan) Details
 - 2.18.2 Yoshitake Inc. (Japan) Major Business
 - 2.18.3 Yoshitake Inc. (Japan) Thermodynamic Steam Traps Product and Services
 - 2.18.4 Yoshitake Inc. (Japan) Thermodynamic Steam Traps Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.18.5 Yoshitake Inc. (Japan) Recent Developments/Updates
- 2.19 Huai An Hardware Co., Ltd. / DSC (Taiwan, China)
 - 2.19.1 Huai An Hardware Co., Ltd. / DSC (Taiwan, China) Details
 - 2.19.2 Huai An Hardware Co., Ltd. / DSC (Taiwan, China) Major Business
 - 2.19.3 Huai An Hardware Co., Ltd. / DSC (Taiwan, China) Thermodynamic Steam Traps Product and Services
 - 2.19.4 Huai An Hardware Co., Ltd. / DSC (Taiwan, China) Thermodynamic Steam Traps Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.19.5 Huai An Hardware Co., Ltd. / DSC (Taiwan, China) Recent Developments/Updates
- 2.20 Yingqiao Machinery Manufacture Co., Ltd. (China)
 - 2.20.1 Yingqiao Machinery Manufacture Co., Ltd. (China) Details
 - 2.20.2 Yingqiao Machinery Manufacture Co., Ltd. (China) Major Business
 - 2.20.3 Yingqiao Machinery Manufacture Co., Ltd. (China) Thermodynamic Steam

Traps Product and Services

2.20.4 Yingqiao Machinery Manufacture Co., Ltd. (China) Thermodynamic Steam Traps Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.20.5 Yingqiao Machinery Manufacture Co., Ltd. (China) Recent Developments/Updates

2.21 Gansu Hongfeng Machinery Co., Ltd. (China)

2.21.1 Gansu Hongfeng Machinery Co., Ltd. (China) Details

2.21.2 Gansu Hongfeng Machinery Co., Ltd. (China) Major Business

2.21.3 Gansu Hongfeng Machinery Co., Ltd. (China) Thermodynamic Steam Traps Product and Services

2.21.4 Gansu Hongfeng Machinery Co., Ltd. (China) Thermodynamic Steam Traps Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.21.5 Gansu Hongfeng Machinery Co., Ltd. (China) Recent Developments/Updates

2.22 Beijing Water-Dispersing Valve Factory (China)

2.22.1 Beijing Water-Dispersing Valve Factory (China) Details

2.22.2 Beijing Water-Dispersing Valve Factory (China) Major Business

2.22.3 Beijing Water-Dispersing Valve Factory (China) Thermodynamic Steam Traps Product and Services

2.22.4 Beijing Water-Dispersing Valve Factory (China) Thermodynamic Steam Traps Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.22.5 Beijing Water-Dispersing Valve Factory (China) Recent Developments/Updates

2.23 Zhejiang Lonze Valve Co., Ltd. (China)

2.23.1 Zhejiang Lonze Valve Co., Ltd. (China) Details

2.23.2 Zhejiang Lonze Valve Co., Ltd. (China) Major Business

2.23.3 Zhejiang Lonze Valve Co., Ltd. (China) Thermodynamic Steam Traps Product and Services

2.23.4 Zhejiang Lonze Valve Co., Ltd. (China) Thermodynamic Steam Traps Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.23.5 Zhejiang Lonze Valve Co., Ltd. (China) Recent Developments/Updates

2.24 Zhejiang Newton Fluid Control Co., Ltd. / VMV (China)

2.24.1 Zhejiang Newton Fluid Control Co., Ltd. / VMV (China) Details

2.24.2 Zhejiang Newton Fluid Control Co., Ltd. / VMV (China) Major Business

2.24.3 Zhejiang Newton Fluid Control Co., Ltd. / VMV (China) Thermodynamic Steam Traps Product and Services

2.24.4 Zhejiang Newton Fluid Control Co., Ltd. / VMV (China) Thermodynamic Steam Traps Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.24.5 Zhejiang Newton Fluid Control Co., Ltd. / VMV (China) Recent

Developments/Updates

3 COMPETITIVE ENVIRONMENT: THERMODYNAMIC STEAM TRAPS BY MANUFACTURER

3.1 Global Thermodynamic Steam Traps Sales Quantity by Manufacturer (2021-2026)

3.2 Global Thermodynamic Steam Traps Revenue by Manufacturer (2021-2026)

3.3 Global Thermodynamic Steam Traps Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of Thermodynamic Steam Traps by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 Thermodynamic Steam Traps Manufacturer Market Share in 2025

3.4.3 Top 6 Thermodynamic Steam Traps Manufacturer Market Share in 2025

3.5 Thermodynamic Steam Traps Market: Overall Company Footprint Analysis

3.5.1 Thermodynamic Steam Traps Market: Region Footprint

3.5.2 Thermodynamic Steam Traps Market: Company Product Type Footprint

3.5.3 Thermodynamic Steam Traps 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 Thermodynamic Steam Traps Market Size by Region

4.1.1 Global Thermodynamic Steam Traps Sales Quantity by Region (2021-2032)

4.1.2 Global Thermodynamic Steam Traps Consumption Value by Region (2021-2032)

4.1.3 Global Thermodynamic Steam Traps Average Price by Region (2021-2032)

4.2 North America Thermodynamic Steam Traps Consumption Value (2021-2032)

4.3 Europe Thermodynamic Steam Traps Consumption Value (2021-2032)

4.4 Asia-Pacific Thermodynamic Steam Traps Consumption Value (2021-2032)

4.5 South America Thermodynamic Steam Traps Consumption Value (2021-2032)

4.6 Middle East & Africa Thermodynamic Steam Traps Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Thermodynamic Steam Traps Sales Quantity by Type (2021-2032)

5.2 Global Thermodynamic Steam Traps Consumption Value by Type (2021-2032)

5.3 Global Thermodynamic Steam Traps Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Thermodynamic Steam Traps Sales Quantity by Application (2021-2032)
- 6.2 Global Thermodynamic Steam Traps Consumption Value by Application (2021-2032)
- 6.3 Global Thermodynamic Steam Traps Average Price by Application (2021-2032)

7 NORTH AMERICA

- 7.1 North America Thermodynamic Steam Traps Sales Quantity by Type (2021-2032)
- 7.2 North America Thermodynamic Steam Traps Sales Quantity by Application (2021-2032)
- 7.3 North America Thermodynamic Steam Traps Market Size by Country
 - 7.3.1 North America Thermodynamic Steam Traps Sales Quantity by Country (2021-2032)
 - 7.3.2 North America Thermodynamic Steam Traps 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 Thermodynamic Steam Traps Sales Quantity by Type (2021-2032)
- 8.2 Europe Thermodynamic Steam Traps Sales Quantity by Application (2021-2032)
- 8.3 Europe Thermodynamic Steam Traps Market Size by Country
 - 8.3.1 Europe Thermodynamic Steam Traps Sales Quantity by Country (2021-2032)
 - 8.3.2 Europe Thermodynamic Steam Traps 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 Thermodynamic Steam Traps Sales Quantity by Type (2021-2032)
- 9.2 Asia-Pacific Thermodynamic Steam Traps Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Thermodynamic Steam Traps Market Size by Region

9.3.1 Asia-Pacific Thermodynamic Steam Traps Sales Quantity by Region
(2021-2032)

9.3.2 Asia-Pacific Thermodynamic Steam Traps 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 Thermodynamic Steam Traps Sales Quantity by Type (2021-2032)

10.2 South America Thermodynamic Steam Traps Sales Quantity by Application
(2021-2032)

10.3 South America Thermodynamic Steam Traps Market Size by Country

10.3.1 South America Thermodynamic Steam Traps Sales Quantity by Country
(2021-2032)

10.3.2 South America Thermodynamic Steam Traps 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 Thermodynamic Steam Traps Sales Quantity by Type
(2021-2032)

11.2 Middle East & Africa Thermodynamic Steam Traps Sales Quantity by Application
(2021-2032)

11.3 Middle East & Africa Thermodynamic Steam Traps Market Size by Country

11.3.1 Middle East & Africa Thermodynamic Steam Traps Sales Quantity by Country
(2021-2032)

11.3.2 Middle East & Africa Thermodynamic Steam Traps 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 Thermodynamic Steam Traps Market Drivers
- 12.2 Thermodynamic Steam Traps Market Restraints
- 12.3 Thermodynamic Steam Traps 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 Thermodynamic Steam Traps and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Thermodynamic Steam Traps
- 13.3 Thermodynamic Steam Traps 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 Thermodynamic Steam Traps Typical Distributors
- 14.3 Thermodynamic Steam Traps 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 Thermodynamic Steam Traps Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Thermodynamic Steam Traps Consumption Value by Pressure, (USD Million), 2021 & 2025 & 2032

Table 3. Global Thermodynamic Steam Traps Consumption Value by Connection, (USD Million), 2021 & 2025 & 2032

Table 4. Global Thermodynamic Steam Traps Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Spirax Group plc (United Kingdom) Basic Information, Manufacturing Base and Competitors

Table 6. Spirax Group plc (United Kingdom) Major Business

Table 7. Spirax Group plc (United Kingdom) Thermodynamic Steam Traps Product and Services

Table 8. Spirax Group plc (United Kingdom) Thermodynamic Steam Traps Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Spirax Group plc (United Kingdom) Recent Developments/Updates

Table 10. Armstrong International, Inc. (United States) Basic Information, Manufacturing Base and Competitors

Table 11. Armstrong International, Inc. (United States) Major Business

Table 12. Armstrong International, Inc. (United States) Thermodynamic Steam Traps Product and Services

Table 13. Armstrong International, Inc. (United States) Thermodynamic Steam Traps Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Armstrong International, Inc. (United States) Recent Developments/Updates

Table 15. Emerson Electric Co. (United States) Basic Information, Manufacturing Base and Competitors

Table 16. Emerson Electric Co. (United States) Major Business

Table 17. Emerson Electric Co. (United States) Thermodynamic Steam Traps Product and Services

Table 18. Emerson Electric Co. (United States) Thermodynamic Steam Traps Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Emerson Electric Co. (United States) Recent Developments/Updates

Table 20. Xylem Inc. (United States) Basic Information, Manufacturing Base and Competitors

Table 21. Xylem Inc. (United States) Major Business

Table 22. Xylem Inc. (United States) Thermodynamic Steam Traps Product and Services

Table 23. Xylem Inc. (United States) Thermodynamic Steam Traps Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Xylem Inc. (United States) Recent Developments/Updates

Table 25. Richards Industrials (United States) Basic Information, Manufacturing Base and Competitors

Table 26. Richards Industrials (United States) Major Business

Table 27. Richards Industrials (United States) Thermodynamic Steam Traps Product and Services

Table 28. Richards Industrials (United States) Thermodynamic Steam Traps Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. Richards Industrials (United States) Recent Developments/Updates

Table 30. Watson McDaniel Company (United States) Basic Information, Manufacturing Base and Competitors

Table 31. Watson McDaniel Company (United States) Major Business

Table 32. Watson McDaniel Company (United States) Thermodynamic Steam Traps Product and Services

Table 33. Watson McDaniel Company (United States) Thermodynamic Steam Traps Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Watson McDaniel Company (United States) Recent Developments/Updates

Table 35. Velan Inc. (Canada) Basic Information, Manufacturing Base and Competitors

Table 36. Velan Inc. (Canada) Major Business

Table 37. Velan Inc. (Canada) Thermodynamic Steam Traps Product and Services

Table 38. Velan Inc. (Canada) Thermodynamic Steam Traps Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Velan Inc. (Canada) Recent Developments/Updates

Table 40. ARI-Armaturen Albert Richter GmbH & Co. KG (Germany) Basic Information, Manufacturing Base and Competitors

Table 41. ARI-Armaturen Albert Richter GmbH & Co. KG (Germany) Major Business

Table 42. ARI-Armaturen Albert Richter GmbH & Co. KG (Germany) Thermodynamic Steam Traps Product and Services

Table 43. ARI-Armaturen Albert Richter GmbH & Co. KG (Germany) Thermodynamic Steam Traps Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. ARI-Armaturen Albert Richter GmbH & Co. KG (Germany) Recent Developments/Updates

Table 45. Valsteam ADCA Engineering S.A. (Portugal) Basic Information, Manufacturing Base and Competitors

Table 46. Valsteam ADCA Engineering S.A. (Portugal) Major Business

Table 47. Valsteam ADCA Engineering S.A. (Portugal) Thermodynamic Steam Traps Product and Services

Table 48. Valsteam ADCA Engineering S.A. (Portugal) Thermodynamic Steam Traps Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. Valsteam ADCA Engineering S.A. (Portugal) Recent Developments/Updates

Table 50. Ayvaz (Türkiye) Basic Information, Manufacturing Base and Competitors

Table 51. Ayvaz (Türkiye) Major Business

Table 52. Ayvaz (Türkiye) Thermodynamic Steam Traps Product and Services

Table 53. Ayvaz (Türkiye) Thermodynamic Steam Traps Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. Ayvaz (Türkiye) Recent Developments/Updates

Table 55. Forbes Marshall Pvt. Ltd. (India) Basic Information, Manufacturing Base and Competitors

Table 56. Forbes Marshall Pvt. Ltd. (India) Major Business

Table 57. Forbes Marshall Pvt. Ltd. (India) Thermodynamic Steam Traps Product and Services

Table 58. Forbes Marshall Pvt. Ltd. (India) Thermodynamic Steam Traps Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. Forbes Marshall Pvt. Ltd. (India) Recent Developments/Updates

Table 60. Thermax Limited (India) Basic Information, Manufacturing Base and Competitors

Table 61. Thermax Limited (India) Major Business

Table 62. Thermax Limited (India) Thermodynamic Steam Traps Product and Services

Table 63. Thermax Limited (India) Thermodynamic Steam Traps Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 64. Thermax Limited (India) Recent Developments/Updates

Table 65. Pennant Engineering Pvt. Ltd. (India) Basic Information, Manufacturing Base

and Competitors

Table 66. Pennant Engineering Pvt. Ltd. (India) Major Business

Table 67. Pennant Engineering Pvt. Ltd. (India) Thermodynamic Steam Traps Product and Services

Table 68. Pennant Engineering Pvt. Ltd. (India) Thermodynamic Steam Traps Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 69. Pennant Engineering Pvt. Ltd. (India) Recent Developments/Updates

Table 70. Uni Klinger Limited (India) Basic Information, Manufacturing Base and Competitors

Table 71. Uni Klinger Limited (India) Major Business

Table 72. Uni Klinger Limited (India) Thermodynamic Steam Traps Product and Services

Table 73. Uni Klinger Limited (India) Thermodynamic Steam Traps Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 74. Uni Klinger Limited (India) Recent Developments/Updates

Table 75. TLV Co., Ltd. (Japan) Basic Information, Manufacturing Base and Competitors

Table 76. TLV Co., Ltd. (Japan) Major Business

Table 77. TLV Co., Ltd. (Japan) Thermodynamic Steam Traps Product and Services

Table 78. TLV Co., Ltd. (Japan) Thermodynamic Steam Traps Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. TLV Co., Ltd. (Japan) Recent Developments/Updates

Table 80. MIYAWAKI Inc. (Japan) Basic Information, Manufacturing Base and Competitors

Table 81. MIYAWAKI Inc. (Japan) Major Business

Table 82. MIYAWAKI Inc. (Japan) Thermodynamic Steam Traps Product and Services

Table 83. MIYAWAKI Inc. (Japan) Thermodynamic Steam Traps Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. MIYAWAKI Inc. (Japan) Recent Developments/Updates

Table 85. VENN Co., Ltd. (Japan) Basic Information, Manufacturing Base and Competitors

Table 86. VENN Co., Ltd. (Japan) Major Business

Table 87. VENN Co., Ltd. (Japan) Thermodynamic Steam Traps Product and Services

Table 88. VENN Co., Ltd. (Japan) Thermodynamic Steam Traps Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market

Share (2021-2026)

Table 89. VENN Co., Ltd. (Japan) Recent Developments/Updates

Table 90. Yoshitake Inc. (Japan) Basic Information, Manufacturing Base and Competitors

Table 91. Yoshitake Inc. (Japan) Major Business

Table 92. Yoshitake Inc. (Japan) Thermodynamic Steam Traps Product and Services

Table 93. Yoshitake Inc. (Japan) Thermodynamic Steam Traps Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 94. Yoshitake Inc. (Japan) Recent Developments/Updates

Table 95. Huai An Hardware Co., Ltd. / DSC (Taiwan, China) Basic Information, Manufacturing Base and Competitors

Table 96. Huai An Hardware Co., Ltd. / DSC (Taiwan, China) Major Business

Table 97. Huai An Hardware Co., Ltd. / DSC (Taiwan, China) Thermodynamic Steam Traps Product and Services

Table 98. Huai An Hardware Co., Ltd. / DSC (Taiwan, China) Thermodynamic Steam Traps Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 99. Huai An Hardware Co., Ltd. / DSC (Taiwan, China) Recent Developments/Updates

Table 100. Yingqiao Machinery Manufacture Co., Ltd. (China) Basic Information, Manufacturing Base and Competitors

Table 101. Yingqiao Machinery Manufacture Co., Ltd. (China) Major Business

Table 102. Yingqiao Machinery Manufacture Co., Ltd. (China) Thermodynamic Steam Traps Product and Services

Table 103. Yingqiao Machinery Manufacture Co., Ltd. (China) Thermodynamic Steam Traps Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 104. Yingqiao Machinery Manufacture Co., Ltd. (China) Recent Developments/Updates

Table 105. Gansu Hongfeng Machinery Co., Ltd. (China) Basic Information, Manufacturing Base and Competitors

Table 106. Gansu Hongfeng Machinery Co., Ltd. (China) Major Business

Table 107. Gansu Hongfeng Machinery Co., Ltd. (China) Thermodynamic Steam Traps Product and Services

Table 108. Gansu Hongfeng Machinery Co., Ltd. (China) Thermodynamic Steam Traps Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Gansu Hongfeng Machinery Co., Ltd. (China) Recent

Developments/Updates

Table 110. Beijing Water-Dispersing Valve Factory (China) Basic Information, Manufacturing Base and Competitors

Table 111. Beijing Water-Dispersing Valve Factory (China) Major Business

Table 112. Beijing Water-Dispersing Valve Factory (China) Thermodynamic Steam Traps Product and Services

Table 113. Beijing Water-Dispersing Valve Factory (China) Thermodynamic Steam Traps Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 114. Beijing Water-Dispersing Valve Factory (China) Recent Developments/Updates

Table 115. Zhejiang Lonze Valve Co., Ltd. (China) Basic Information, Manufacturing Base and Competitors

Table 116. Zhejiang Lonze Valve Co., Ltd. (China) Major Business

Table 117. Zhejiang Lonze Valve Co., Ltd. (China) Thermodynamic Steam Traps Product and Services

Table 118. Zhejiang Lonze Valve Co., Ltd. (China) Thermodynamic Steam Traps Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 119. Zhejiang Lonze Valve Co., Ltd. (China) Recent Developments/Updates

Table 120. Zhejiang Newton Fluid Control Co., Ltd. / VMV (China) Basic Information, Manufacturing Base and Competitors

Table 121. Zhejiang Newton Fluid Control Co., Ltd. / VMV (China) Major Business

Table 122. Zhejiang Newton Fluid Control Co., Ltd. / VMV (China) Thermodynamic Steam Traps Product and Services

Table 123. Zhejiang Newton Fluid Control Co., Ltd. / VMV (China) Thermodynamic Steam Traps Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 124. Zhejiang Newton Fluid Control Co., Ltd. / VMV (China) Recent Developments/Updates

Table 125. Global Thermodynamic Steam Traps Sales Quantity by Manufacturer (2021-2026) & (K Units)

Table 126. Global Thermodynamic Steam Traps Revenue by Manufacturer (2021-2026) & (USD Million)

Table 127. Global Thermodynamic Steam Traps Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 128. Market Position of Manufacturers in Thermodynamic Steam Traps, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 129. Head Office and Thermodynamic Steam Traps Production Site of Key

Manufacturer

Table 130. Thermodynamic Steam Traps Market: Company Product Type Footprint

Table 131. Thermodynamic Steam Traps Market: Company Product Application Footprint

Table 132. Thermodynamic Steam Traps New Market Entrants and Barriers to Market Entry

Table 133. Thermodynamic Steam Traps Mergers, Acquisition, Agreements, and Collaborations

Table 134. Global Thermodynamic Steam Traps Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 135. Global Thermodynamic Steam Traps Sales Quantity by Region (2021-2026) & (K Units)

Table 136. Global Thermodynamic Steam Traps Sales Quantity by Region (2027-2032) & (K Units)

Table 137. Global Thermodynamic Steam Traps Consumption Value by Region (2021-2026) & (USD Million)

Table 138. Global Thermodynamic Steam Traps Consumption Value by Region (2027-2032) & (USD Million)

Table 139. Global Thermodynamic Steam Traps Average Price by Region (2021-2026) & (US\$/Unit)

Table 140. Global Thermodynamic Steam Traps Average Price by Region (2027-2032) & (US\$/Unit)

Table 141. Global Thermodynamic Steam Traps Sales Quantity by Type (2021-2026) & (K Units)

Table 142. Global Thermodynamic Steam Traps Sales Quantity by Type (2027-2032) & (K Units)

Table 143. Global Thermodynamic Steam Traps Consumption Value by Type (2021-2026) & (USD Million)

Table 144. Global Thermodynamic Steam Traps Consumption Value by Type (2027-2032) & (USD Million)

Table 145. Global Thermodynamic Steam Traps Average Price by Type (2021-2026) & (US\$/Unit)

Table 146. Global Thermodynamic Steam Traps Average Price by Type (2027-2032) & (US\$/Unit)

Table 147. Global Thermodynamic Steam Traps Sales Quantity by Application (2021-2026) & (K Units)

Table 148. Global Thermodynamic Steam Traps Sales Quantity by Application (2027-2032) & (K Units)

Table 149. Global Thermodynamic Steam Traps Consumption Value by Application

(2021-2026) & (USD Million)

Table 150. Global Thermodynamic Steam Traps Consumption Value by Application

(2027-2032) & (USD Million)

Table 151. Global Thermodynamic Steam Traps Average Price by Application

(2021-2026) & (US\$/Unit)

Table 152. Global Thermodynamic Steam Traps Average Price by Application

(2027-2032) & (US\$/Unit)

Table 153. North America Thermodynamic Steam Traps Sales Quantity by Type

(2021-2026) & (K Units)

Table 154. North America Thermodynamic Steam Traps Sales Quantity by Type

(2027-2032) & (K Units)

Table 155. North America Thermodynamic Steam Traps Sales Quantity by Application

(2021-2026) & (K Units)

Table 156. North America Thermodynamic Steam Traps Sales Quantity by Application

(2027-2032) & (K Units)

Table 157. North America Thermodynamic Steam Traps Sales Quantity by Country

(2021-2026) & (K Units)

Table 158. North America Thermodynamic Steam Traps Sales Quantity by Country

(2027-2032) & (K Units)

Table 159. North America Thermodynamic Steam Traps Consumption Value by Country

(2021-2026) & (USD Million)

Table 160. North America Thermodynamic Steam Traps Consumption Value by Country

(2027-2032) & (USD Million)

Table 161. Europe Thermodynamic Steam Traps Sales Quantity by Type (2021-2026) & (K Units)

Table 162. Europe Thermodynamic Steam Traps Sales Quantity by Type (2027-2032) & (K Units)

Table 163. Europe Thermodynamic Steam Traps Sales Quantity by Application (2021-2026) & (K Units)

Table 164. Europe Thermodynamic Steam Traps Sales Quantity by Application (2027-2032) & (K Units)

Table 165. Europe Thermodynamic Steam Traps Sales Quantity by Country (2021-2026) & (K Units)

Table 166. Europe Thermodynamic Steam Traps Sales Quantity by Country (2027-2032) & (K Units)

Table 167. Europe Thermodynamic Steam Traps Consumption Value by Country (2021-2026) & (USD Million)

Table 168. Europe Thermodynamic Steam Traps Consumption Value by Country (2027-2032) & (USD Million)

Table 169. Asia-Pacific Thermodynamic Steam Traps Sales Quantity by Type (2021-2026) & (K Units)

Table 170. Asia-Pacific Thermodynamic Steam Traps Sales Quantity by Type (2027-2032) & (K Units)

Table 171. Asia-Pacific Thermodynamic Steam Traps Sales Quantity by Application (2021-2026) & (K Units)

Table 172. Asia-Pacific Thermodynamic Steam Traps Sales Quantity by Application (2027-2032) & (K Units)

Table 173. Asia-Pacific Thermodynamic Steam Traps Sales Quantity by Region (2021-2026) & (K Units)

Table 174. Asia-Pacific Thermodynamic Steam Traps Sales Quantity by Region (2027-2032) & (K Units)

Table 175. Asia-Pacific Thermodynamic Steam Traps Consumption Value by Region (2021-2026) & (USD Million)

Table 176. Asia-Pacific Thermodynamic Steam Traps Consumption Value by Region (2027-2032) & (USD Million)

Table 177. South America Thermodynamic Steam Traps Sales Quantity by Type (2021-2026) & (K Units)

Table 178. South America Thermodynamic Steam Traps Sales Quantity by Type (2027-2032) & (K Units)

Table 179. South America Thermodynamic Steam Traps Sales Quantity by Application (2021-2026) & (K Units)

Table 180. South America Thermodynamic Steam Traps Sales Quantity by Application (2027-2032) & (K Units)

Table 181. South America Thermodynamic Steam Traps Sales Quantity by Country (2021-2026) & (K Units)

Table 182. South America Thermodynamic Steam Traps Sales Quantity by Country (2027-2032) & (K Units)

Table 183. South America Thermodynamic Steam Traps Consumption Value by Country (2021-2026) & (USD Million)

Table 184. South America Thermodynamic Steam Traps Consumption Value by Country (2027-2032) & (USD Million)

Table 185. Middle East & Africa Thermodynamic Steam Traps Sales Quantity by Type (2021-2026) & (K Units)

Table 186. Middle East & Africa Thermodynamic Steam Traps Sales Quantity by Type (2027-2032) & (K Units)

Table 187. Middle East & Africa Thermodynamic Steam Traps Sales Quantity by Application (2021-2026) & (K Units)

Table 188. Middle East & Africa Thermodynamic Steam Traps Sales Quantity by

Application (2027-2032) & (K Units)

Table 189. Middle East & Africa Thermodynamic Steam Traps Sales Quantity by Country (2021-2026) & (K Units)

Table 190. Middle East & Africa Thermodynamic Steam Traps Sales Quantity by Country (2027-2032) & (K Units)

Table 191. Middle East & Africa Thermodynamic Steam Traps Consumption Value by Country (2021-2026) & (USD Million)

Table 192. Middle East & Africa Thermodynamic Steam Traps Consumption Value by Country (2027-2032) & (USD Million)

Table 193. Thermodynamic Steam Traps Raw Material

Table 194. Key Manufacturers of Thermodynamic Steam Traps Raw Materials

Table 195. Thermodynamic Steam Traps Typical Distributors

Table 196. Thermodynamic Steam Traps Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Thermodynamic Steam Traps Picture

Figure 2. Global Thermodynamic Steam Traps Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Thermodynamic Steam Traps Revenue Market Share by Type in 2025

Figure 4. Cast Iron Steam Traps Examples

Figure 5. Carbon Steel Steam Traps Examples

Figure 6. Stainless Steel Steam Traps Examples

Figure 7. Alloy Steel Steam Traps Examples

Figure 8. Others Examples

Figure 9. Global Thermodynamic Steam Traps Revenue by Pressure, (USD Million), 2021 & 2025 & 2032

Figure 10. Global Thermodynamic Steam Traps Revenue Market Share by Pressure in 2025

Figure 11. ? 1.6 MPa Examples

Figure 12. > 1.6 MPa and ? 4.0 MPa Examples

Figure 13. > 4.0 MPa Examples

Figure 14. Global Thermodynamic Steam Traps Revenue by Connection, (USD Million), 2021 & 2025 & 2032

Figure 15. Global Thermodynamic Steam Traps Revenue Market Share by Connection in 2025

Figure 16. Threaded Examples

Figure 17. Flanged Examples

Figure 18. Welded Examples

Figure 19. Other Connections Examples

Figure 20. Global Thermodynamic Steam Traps Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 21. Global Thermodynamic Steam Traps Revenue Market Share by Application in 2025

Figure 22. Oil & Petrochemical Examples

Figure 23. Power Industry Examples

Figure 24. Pharmaceutical Examples

Figure 25. Food & Beverage Examples

Figure 26. Pulp & Paper Examples

Figure 27. General Industry Examples

Figure 28. Others Examples

Figure 29. Global Thermodynamic Steam Traps Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 30. Global Thermodynamic Steam Traps Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 31. Global Thermodynamic Steam Traps Sales Quantity (2021-2032) & (K Units)

Figure 32. Global Thermodynamic Steam Traps Price (2021-2032) & (US\$/Unit)

Figure 33. Global Thermodynamic Steam Traps Sales Quantity Market Share by Manufacturer in 2025

Figure 34. Global Thermodynamic Steam Traps Revenue Market Share by Manufacturer in 2025

Figure 35. Producer Shipments of Thermodynamic Steam Traps by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 36. Top 3 Thermodynamic Steam Traps Manufacturer (Revenue) Market Share in 2025

Figure 37. Top 6 Thermodynamic Steam Traps Manufacturer (Revenue) Market Share in 2025

Figure 38. Global Thermodynamic Steam Traps Sales Quantity Market Share by Region (2021-2032)

Figure 39. Global Thermodynamic Steam Traps Consumption Value Market Share by Region (2021-2032)

Figure 40. North America Thermodynamic Steam Traps Consumption Value (2021-2032) & (USD Million)

Figure 41. Europe Thermodynamic Steam Traps Consumption Value (2021-2032) & (USD Million)

Figure 42. Asia-Pacific Thermodynamic Steam Traps Consumption Value (2021-2032) & (USD Million)

Figure 43. South America Thermodynamic Steam Traps Consumption Value (2021-2032) & (USD Million)

Figure 44. Middle East & Africa Thermodynamic Steam Traps Consumption Value (2021-2032) & (USD Million)

Figure 45. Global Thermodynamic Steam Traps Sales Quantity Market Share by Type (2021-2032)

Figure 46. Global Thermodynamic Steam Traps Consumption Value Market Share by Type (2021-2032)

Figure 47. Global Thermodynamic Steam Traps Average Price by Type (2021-2032) & (US\$/Unit)

Figure 48. Global Thermodynamic Steam Traps Sales Quantity Market Share by Application (2021-2032)

Figure 49. Global Thermodynamic Steam Traps Revenue Market Share by Application

(2021-2032)

Figure 50. Global Thermodynamic Steam Traps Average Price by Application (2021-2032) & (US\$/Unit)

Figure 51. North America Thermodynamic Steam Traps Sales Quantity Market Share by Type (2021-2032)

Figure 52. North America Thermodynamic Steam Traps Sales Quantity Market Share by Application (2021-2032)

Figure 53. North America Thermodynamic Steam Traps Sales Quantity Market Share by Country (2021-2032)

Figure 54. North America Thermodynamic Steam Traps Consumption Value Market Share by Country (2021-2032)

Figure 55. United States Thermodynamic Steam Traps Consumption Value (2021-2032) & (USD Million)

Figure 56. Canada Thermodynamic Steam Traps Consumption Value (2021-2032) & (USD Million)

Figure 57. Mexico Thermodynamic Steam Traps Consumption Value (2021-2032) & (USD Million)

Figure 58. Europe Thermodynamic Steam Traps Sales Quantity Market Share by Type (2021-2032)

Figure 59. Europe Thermodynamic Steam Traps Sales Quantity Market Share by Application (2021-2032)

Figure 60. Europe Thermodynamic Steam Traps Sales Quantity Market Share by Country (2021-2032)

Figure 61. Europe Thermodynamic Steam Traps Consumption Value Market Share by Country (2021-2032)

Figure 62. Germany Thermodynamic Steam Traps Consumption Value (2021-2032) & (USD Million)

Figure 63. France Thermodynamic Steam Traps Consumption Value (2021-2032) & (USD Million)

Figure 64. United Kingdom Thermodynamic Steam Traps Consumption Value (2021-2032) & (USD Million)

Figure 65. Russia Thermodynamic Steam Traps Consumption Value (2021-2032) & (USD Million)

Figure 66. Italy Thermodynamic Steam Traps Consumption Value (2021-2032) & (USD Million)

Figure 67. Asia-Pacific Thermodynamic Steam Traps Sales Quantity Market Share by Type (2021-2032)

Figure 68. Asia-Pacific Thermodynamic Steam Traps Sales Quantity Market Share by Application (2021-2032)

Figure 69. Asia-Pacific Thermodynamic Steam Traps Sales Quantity Market Share by Region (2021-2032)

Figure 70. Asia-Pacific Thermodynamic Steam Traps Consumption Value Market Share by Region (2021-2032)

Figure 71. China Thermodynamic Steam Traps Consumption Value (2021-2032) & (USD Million)

Figure 72. Japan Thermodynamic Steam Traps Consumption Value (2021-2032) & (USD Million)

Figure 73. South Korea Thermodynamic Steam Traps Consumption Value (2021-2032) & (USD Million)

Figure 74. India Thermodynamic Steam Traps Consumption Value (2021-2032) & (USD Million)

Figure 75. Southeast Asia Thermodynamic Steam Traps Consumption Value (2021-2032) & (USD Million)

Figure 76. Australia Thermodynamic Steam Traps Consumption Value (2021-2032) & (USD Million)

Figure 77. South America Thermodynamic Steam Traps Sales Quantity Market Share by Type (2021-2032)

Figure 78. South America Thermodynamic Steam Traps Sales Quantity Market Share by Application (2021-2032)

Figure 79. South America Thermodynamic Steam Traps Sales Quantity Market Share by Country (2021-2032)

Figure 80. South America Thermodynamic Steam Traps Consumption Value Market Share by Country (2021-2032)

Figure 81. Brazil Thermodynamic Steam Traps Consumption Value (2021-2032) & (USD Million)

Figure 82. Argentina Thermodynamic Steam Traps Consumption Value (2021-2032) & (USD Million)

Figure 83. Middle East & Africa Thermodynamic Steam Traps Sales Quantity Market Share by Type (2021-2032)

Figure 84. Middle East & Africa Thermodynamic Steam Traps Sales Quantity Market Share by Application (2021-2032)

Figure 85. Middle East & Africa Thermodynamic Steam Traps Sales Quantity Market Share by Country (2021-2032)

Figure 86. Middle East & Africa Thermodynamic Steam Traps Consumption Value Market Share by Country (2021-2032)

Figure 87. Turkey Thermodynamic Steam Traps Consumption Value (2021-2032) & (USD Million)

Figure 88. Egypt Thermodynamic Steam Traps Consumption Value (2021-2032) &

(USD Million)

Figure 89. Saudi Arabia Thermodynamic Steam Traps Consumption Value (2021-2032)
& (USD Million)

Figure 90. South Africa Thermodynamic Steam Traps Consumption Value (2021-2032)
& (USD Million)

Figure 91. Thermodynamic Steam Traps Market Drivers

Figure 92. Thermodynamic Steam Traps Market Restraints

Figure 93. Thermodynamic Steam Traps Market Trends

Figure 94. Porters Five Forces Analysis

Figure 95. Manufacturing Cost Structure Analysis of Thermodynamic Steam Traps in
2025

Figure 96. Manufacturing Process Analysis of Thermodynamic Steam Traps

Figure 97. Thermodynamic Steam Traps Industrial Chain

Figure 98. Sales Channel: Direct to End-User vs Distributors

Figure 99. Direct Channel Pros & Cons

Figure 100. Indirect Channel Pros & Cons

Figure 101. Methodology

Figure 102. Research Process and Data Source

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