

Global Thermodynamic Steam Traps Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Thermodynamic Steam Traps market size is expected to reach \$ 226 million by 2032, rising at a market growth of 4.2% CAGR during the forecast period (2026-2032).

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 studies the global Thermodynamic Steam Traps production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Thermodynamic Steam Traps 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 Thermodynamic Steam Traps that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Thermodynamic Steam Traps total production and demand, 2021-2032, (K Units)

Global Thermodynamic Steam Traps Supply, Demand and Key Producers, 2026-2032

Global Thermodynamic Steam Traps total production value, 2021-2032, (USD Million)
Global Thermodynamic Steam Traps production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global Thermodynamic Steam Traps consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Thermodynamic Steam Traps domestic production, consumption, key domestic manufacturers and share
Global Thermodynamic Steam Traps production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Thermodynamic Steam Traps production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Thermodynamic Steam Traps production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Thermodynamic Steam Traps 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 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), etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Thermodynamic Steam Traps market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Thermodynamic Steam Traps Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Thermodynamic Steam Traps Market, Segmentation by Type:

Cast Iron Steam Traps

Carbon Steel Steam Traps

Stainless Steel Steam Traps

Alloy Steel Steam Traps

Others

Global Thermodynamic Steam Traps Market, Segmentation by Pressure:

? 1.6 MPa

> 1.6 MPa and ? 4.0 MPa

> 4.0 MPa

Global Thermodynamic Steam Traps Market, Segmentation by Connection:

Threaded

Flanged

Welded

Other Connections

Global Thermodynamic Steam Traps Market, Segmentation by Application:

Oil & Petrochemical

Power Industry

Pharmaceutical

Food & Beverage

Pulp & Paper

General Industry

Others

Companies Profiled:

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)

Key Questions Answered:

1. How big is the global Thermodynamic Steam Traps market?
2. What is the demand of the global Thermodynamic Steam Traps market?
3. What is the year over year growth of the global Thermodynamic Steam Traps market?
4. What is the production and production value of the global Thermodynamic Steam Traps market?
5. Who are the key producers in the global Thermodynamic Steam Traps market?
6. What are the growth factors driving the market demand?

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