

Global F Type Thermal Expansion Valve Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global F Type Thermal Expansion Valve market size is expected to reach \$ 262 million by 2032, rising at a market growth of 3.0% CAGR during the forecast period (2026-2032).

In 2024, the global production of F-type thermostatic expansion valves reached 30.1716 million units, with an average selling price of US\$6.7 per unit. The global annual production capacity of F-type thermostatic expansion valves is approximately 47 million units, with a gross profit margin of approximately 22.5%. The F-type thermostatic expansion valve is a throttling element used in refrigeration and air conditioning systems, belonging to a variant of the expansion valve family. Its core function is to reduce the state of the high-pressure refrigerant at the evaporator inlet to a low-pressure, low-temperature state, thereby achieving throttling and thermodynamic heat exchange in the refrigeration cycle, controlling the evaporation pressure and temperature within the evaporator, and ensuring stable system operation and high efficiency. The upstream of the F-type thermostatic expansion valve industry chain includes metal materials, sealing materials and elastic elements, and surface treatment/coating materials. The midstream consists of F-type thermostatic expansion valve manufacturers, and the downstream mainly includes the automotive, air conditioning, and refrigeration industries.

The F-type thermostatic expansion valve market is currently experiencing steady growth and continuous technological evolution, focusing on improving energy efficiency, control precision, and system reliability. With the increasing demand for refined regulation in the air conditioning, refrigeration, and cold chain industries, F-type valves are gradually expanding their application scenarios in mid-to-high-end refrigeration systems, cryogenic applications, and electronic control integration. Manufacturers are improving valve core materials, sealing technology, and electronic control capabilities to achieve higher control resolution, lower overheating/throttling losses, and promote

interoperability, standardization, and maintainability with refrigeration systems. Market competition is concentrated on performance stability, balanced costs, industry certifications (such as cryogenic, hygiene, and safety standards), and localized after-sales service capabilities, showing a trend of evolution from single-point controls to integrated, full-stack solutions.

This report studies the global F Type Thermal Expansion Valve production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global F Type Thermal Expansion Valve total production and demand, 2021-2032, (K Units)

Global F Type Thermal Expansion Valve total production value, 2021-2032, (USD Million)

Global F Type Thermal Expansion Valve production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global F Type Thermal Expansion Valve consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: F Type Thermal Expansion Valve domestic production, consumption, key domestic manufacturers and share

Global F Type Thermal Expansion Valve production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global F Type Thermal Expansion Valve production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global F Type Thermal Expansion Valve production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global F Type Thermal Expansion 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 Danfoss, Emerson, Parker, Egelhof, TGK, Fujikoki, Castel, SANHUA, XIN JING, Ningbo Songying, 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 F Type Thermal Expansion Valve 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 F Type Thermal Expansion Valve Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global F Type Thermal Expansion Valve Market, Segmentation by Type:

Mechanical

Electrical

Global F Type Thermal Expansion Valve Market, Segmentation by Structure:

Straight-Through Type

Angle-Through Type

Global F Type Thermal Expansion Valve Market, Segmentation by Drive Method:

Liquid-Filled Type

Air-Filled Type

Global F Type Thermal Expansion Valve Market, Segmentation by Application:

Refrigeration

Air Conditioning

Automotive

Food

Chemical

Others

Companies Profiled:

Danfoss

Emerson

Parker

Egelhof

TGK

Fujikoki

Castel

SANHUA

XIN JING

Ningbo Songying

Zhejiang Shike Auto Parts

Dunan Environment

CHUNHUI CONTROLS

KEDI JX

Key Questions Answered:

1. How big is the global F Type Thermal Expansion Valve market?
2. What is the demand of the global F Type Thermal Expansion Valve market?
3. What is the year over year growth of the global F Type Thermal Expansion Valve market?
4. What is the production and production value of the global F Type Thermal Expansion Valve market?
5. Who are the key producers in the global F Type Thermal Expansion Valve market?
6. What are the growth factors driving the market demand?

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