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# Global Thermal Actuators Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Thermal Actuators market size is expected to reach $ 1000 million by 2032, rising at a market growth of 3.3% CAGR during the forecast period (2026-2032).

In 2025, global Thermal Actuator production reached 38.6 million units, with an average selling price of US$19.80 per unit, production capacity of 48.5 million units, and a gross margin of 31.5%. Accordingly, the global market size in 2025 was approximately US$764.3 million.

A Thermal Actuator, also known as an electrothermal actuator, is a driving device that uses an electric heating element to heat a thermally responsive medium, causing it to expand and move a piston or valve stem linearly. It is commonly mounted on underfloor-heating manifolds, radiator valves, zone control valves, and hydronic HVAC valves to open, close, or proportionally regulate the valve in response to signals from a thermostat or building control system. Key characteristics include compact construction, quiet operation, relatively low power consumption, and suitability for multi-zone control. This report primarily covers electrothermal valve actuators used in HVAC and hydronic control systems, excluding motorized, pneumatic and hydraulic actuators, as well as mechanical thermostatic devices used in automotive engines.

Demand in the global Thermal Actuator market mainly comes from underfloor heating, radiator heating, zoned temperature control, and hydronic HVAC systems in commercial buildings. Europe represents an important consumption market due to its mature hydronic heating and building temperature-control infrastructure. Demand in China is supported by underfloor-heating systems, individual control of centralized heating, and building automation, while the North American market is primarily driven by hydronic heating, zone-control systems, and energy-efficiency retrofits. Market participants

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include international HVAC companies such as Danfoss, Siemens, Honeywell, Uponor, Caleffi, IMI, and Watts, together with Chinese manufacturers such as MENRED, Hailin Controls, SASWELL, and Beok. Future growth is expected to be supported by building energy-efficiency regulations, wider adoption of smart temperature-control systems, increasing heat-pump installations, and integration with wireless thermostats and building automation systems. However, construction cycles, raw-material prices, and differences in valve connection standards may continue to affect demand and product costs.

## Report Scope

This report studies the global Thermal Actuators production, demand, key manufacturers, and key regions.

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

## Highlights and key features of the study

Global Thermal Actuators total production and demand, 2021-2032, (K Units)

Global Thermal Actuators total production value, 2021-2032, (USD Million)

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

Global Thermal Actuators consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Thermal Actuators domestic production, consumption, key domestic manufacturers and share

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

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

Global Thermal Actuators production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Thermal Actuators 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, Siemens, Honeywell, Oventrop, MENRED, Uponor, Caleffi, Schneider Electric, Giacomini, SAUTER, 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 Thermal Actuators 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 Thermal Actuators Market, By Region:

United States

China

Europe

Japan

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South Korea

ASEAN

India

Rest of World

## Market Segmentation

### Global Thermal Actuators Market, Segmentation by Type:

Squeeze Type

Diaphragm Type

Piston Type

### Global Thermal Actuators Market, Segmentation by Scene:

Underfloor, Wall and Ceiling Radiant Heating and Cooling

Radiator Temperature Control

Fan Coil and HVAC Terminal Control

Zone Valve and Hydronic Control Valve

Industrial and Other Thermally Actuated Devices

### Global Thermal Actuators Market, Segmentation by Rated Operating Voltage:

24V Type

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110/120V Type

230V Type

Other Voltage Types

### Global Thermal Actuators Market, Segmentation by Application:

Auto Industry

Petrochemical

Shipbuilding

Household Appliances

Other

## Companies Profiled:

Danfoss

Siemens

Honeywell

Oventrop

MENRED

Uponor

Caleffi

Schneider Electric

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Giacomini

SAUTER

Watts

IMI

Beijing Hailin Control Technology(HAI LIN)

CONTROLLI

SALUS Controls

SASWELL

Beok

Grenton

## Key Questions Answered

1. How big is the global Thermal Actuators market?
2. What is the demand of the global Thermal Actuators market?
3. What is the year over year growth of the global Thermal Actuators market?
4. What is the total value of the global Thermal Actuators market?
5. Who are the Major Players in the global Thermal Actuators market?
6. What are the growth factors driving the market demand?

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