

Global Low Temperature Regulator Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G37B05E006F3EN.html>

Date: July 2026

Pages: 121

Price: US\$ 4,480.00 (Single User License)

ID: G37B05E006F3EN

Abstracts

The global Low Temperature Regulator market size is expected to reach \$ 568 million by 2032, rising at a market growth of 3.1% CAGR during the forecast period (2026-2032).

Low temperature regulators are control components and integrated regulating devices designed for low-temperature, cryogenic, or ultra-low-temperature fluid systems. Their core function is to provide stable control of pressure, back pressure, tank pressure build-up, gas supply pressure, liquid temperature, or overall fluid conditions in extremely low-temperature media, low-temperature environments, or high-pressure cryogenic gas-liquid conversion processes. These products typically use cryogenic-compatible metal valve bodies, spring-loaded or pilot-loaded structures, metal diaphragms, bellows, low-temperature sealing materials, and precision valve seat designs to reduce the impact of cryogenic contraction, leakage, pressure drift, icing, flow fluctuation, and safety risks on system operation. Typical product forms include cryogenic pressure reducing regulators, pressure build regulators, back pressure regulators, combined pressure build and economizer regulators, ultra-high-purity gas regulators, and ultra-low-temperature automatic liquid temperature regulating equipment. The products are widely used in applications involving liquid nitrogen, liquid oxygen, liquid argon, carbon dioxide, LNG, helium, hydrogen, and high-purity specialty gases. Major customers include industrial gas suppliers, cryogenic tank and liquid cylinder manufacturers, semiconductor facility system integrators, energy equipment companies, research laboratories, precision machining equipment companies, and refrigeration and thermal management system providers.

Demand for low temperature regulators is rooted in the need for safe and stable control during the storage, transfer, vaporization, and end use of low-temperature media. When

liquid nitrogen, liquid oxygen, liquid argon, carbon dioxide, LNG, helium, hydrogen, and high-purity specialty gases operate in storage tanks, liquid cylinders, microbulk systems, and process pipelines, they involve extremely low temperatures, notable pressure fluctuations, and frequent gas-liquid phase transitions. These conditions impose demanding requirements on sealing performance, material compatibility, response speed, and pressure stability. Compared with ordinary pressure regulators, low temperature regulators must not only perform pressure reduction, back pressure control, pressure build-up, or economizer control, but also address thermal contraction, seat leakage, failure of elastic components, oxygen-compatible cleanliness, and icing near cold sections. As a result, competition in this sector is not based solely on valve machining capability, but on the integrated strength of cryogenic material selection, structural design, clean manufacturing, testing validation, and system compatibility. As industrial gas supply extends from centralized bulk supply to smaller terminal systems, microbulk delivery, and on-site equipment integration, low temperature regulators are increasingly used in liquid cylinders, microbulk tanks, mobile storage and transport systems, and terminal vaporization stations. Their value is gradually shifting from individual standard components to system safety and operating efficiency.

From a technical perspective, low temperature regulators are evolving from single pressure-reducing components toward integrated, precision-oriented, and application-specific products. Pressure build regulators, back pressure regulators, combined pressure build and economizer regulators, ultra-high-purity gas regulators, and ultra-low-temperature automatic liquid temperature regulating equipment each represent different technical routes. Cryogenic tanks and liquid cylinders place greater emphasis on rapid pressure build-up, stable tank pressure, and economized venting. Semiconductor and specialty gas systems focus more on particle control, leakage control, surface cleanliness, and stable pressure delivery. Research cryogenic systems require precise back pressure control and reduced temperature disturbance under small flow conditions. Precision machining and semiconductor peripheral thermal management systems are more concerned with liquid temperature stability and energy-saving control at low temperatures. This creates multiple parallel product routes, requiring selection based on media type, temperature class, pressure range, connection method, sealing material, and application scenario. Future technical upgrades are expected to focus on low-leakage metal sealing, low-temperature elastomers, modular valve assemblies, electronic feedback control, remote monitoring, and system-level certification.

From a regional and market perspective, low temperature regulators remain a highly specialized segment with a dispersed global supply chain and a relatively concentrated

group of high-end brands. U.S. and European companies have strong brand foundations in industrial gases, cryogenic storage and transport, back pressure control, combined valve assemblies, and ultra-high-purity gas systems. Japanese companies have long-standing capabilities in precision liquid temperature control and semiconductor peripheral equipment. Korean companies have supporting capabilities in semiconductor gas systems and high-purity pressure regulation components, while Chinese companies continue to expand supply in refrigeration control valves, cryogenic valves, and LNG-related supporting components. Demand is mainly driven by the energy transition, LNG infrastructure, industrial gas consumption, semiconductor investment, hydrogen equipment, research cryogenic platforms, and high-end manufacturing expansion. Because cryogenic systems require high levels of safety and reliability, customers tend to prefer products with long operating records, while also introducing regional suppliers under pressure to reduce cost, shorten delivery cycles, and improve local service. Overall, the low temperature regulator market is not large in absolute size, but it has strong application stickiness. Future growth is more likely to come from structural expansion driven by higher purity requirements, combined functions, modularization, and regional substitution.

This report studies the global Low Temperature Regulator production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Low Temperature Regulator total production and demand, 2021-2032, (Units)

Global Low Temperature Regulator total production value, 2021-2032, (USD Million)

Global Low Temperature Regulator production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Low Temperature Regulator consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Low Temperature Regulator domestic production, consumption, key domestic manufacturers and share

Global Low Temperature Regulator production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Low Temperature Regulator production by Control Object, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Low Temperature Regulator production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Low Temperature Regulator 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 Generant, Parker Hannifin Corporation, Emerson Electric Co., OPW Clean Energy Solutions, HEROSE GmbH, Equilibar LLC, Swagelok Company, Rotarex S.A., Kanto Seiki Co., Ltd., Nippon Sanso Holdings Corporation, 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 Low Temperature Regulator 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 Control Object, 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 Low Temperature Regulator Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Low Temperature Regulator Market, Segmentation by Control Object:

Pressure Regulation

Temperature Regulation

Combination Regulation

Global Low Temperature Regulator Market, Segmentation by Medium Form:

Low Temperature Gas Phase

Low Temperature Liquid Phase

Gas-Liquid Two-Phase

Heat Transfer Liquid Circulation

Global Low Temperature Regulator Market, Segmentation by Connection Type:

Threaded Connection

Welded Connection

Compression Fitting Connection

Flanged Connection

Face Seal Connection

Global Low Temperature Regulator Market, Segmentation by Application:

Storage Tanks and Liquid Cylinders

Pipelines and Gas Stations

Semiconductor Gas Cabinets

Energy Storage and Transportation

Companies Profiled:

Generant

Parker Hannifin Corporation

Emerson Electric Co.

OPW Clean Energy Solutions

HEROSE GmbH

Equilibar LLC

Swagelok Company

Rotarex S.A.

Kanto Seiki Co., Ltd.

Nippon Sanso Holdings Corporation

Drastar Co., Ltd.

Zhejiang Sanhua Intelligent Controls Co., Ltd.

Danyang Feilun Gas Valve Co., Ltd.

Key Questions Answered:

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

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