

Global Closed Loop Sampling System Market Growth 2026-2032

<https://marketpublishers.com/r/G47501AD5EC3EN.html>

Date: July 2026

Pages: 107

Price: US\$ 3,660.00 (Single User License)

ID: G47501AD5EC3EN

Abstracts

The global Closed Loop Sampling System market size is predicted to grow from US\$ 832 million in 2025 to US\$ 1491 million in 2032; it is expected to grow at a CAGR of 8.8% from 2026 to 2032.

Closed Loop Sampling System is a sealed process sampling device used to collect representative gas, liquid, slurry, or hazardous process samples while minimizing operator exposure and environmental release. It usually includes sampling valves, cylinders, sample bottles, purge lines, pressure regulators, filters, cooling devices, vent or return lines, safety enclosures, gauges, and interlock mechanisms. Compared with open sampling methods, closed loop sampling systems reduce leakage, emissions, contamination, sample loss, and safety risks. They are widely used in oil and gas, refining, petrochemical, chemical, pharmaceutical, LNG, power generation, and hazardous process industries. The industrial chain of Closed Loop Sampling System includes upstream suppliers of valves, fittings, cylinders, bottles, tubing, pressure regulators, filters, seals, gauges, cooling coils, stainless steel enclosures, interlock components, sampling needles, and surface treatment materials. Midstream activities include system design, process compatibility analysis, valve assembly, tubing fabrication, pressure testing, leakage testing, safety configuration, purge system integration, enclosure assembly, documentation, and factory acceptance testing. Downstream users mainly include refineries, chemical plants, petrochemical facilities, LNG terminals, pharmaceutical plants, oil and gas operators, power plants, industrial laboratories, and environmental monitoring projects. Installation, validation, maintenance, operator training, spare parts supply, and safety inspection services support reliable long-term operation. In 2025, global Closed Loop Sampling System production reached approximately 34,000 units, with an average global market price of around US\$25,000 per unit. The gross profit margin of major companies in the industry

is between 35%-55%. In 2025, the global production capacity of closed loop sampling systems was approximately 45,333 units.

The Closed Loop Sampling System market is mainly driven by stricter process safety requirements, environmental emission control, hazardous chemical handling rules, and the need for more representative and contamination-free samples. In oil and gas, refining, petrochemical, chemical, pharmaceutical, LNG, and power applications, open sampling may expose operators to toxic, flammable, corrosive, high-pressure, or high-temperature media, creating safety and compliance risks. Closed loop sampling systems help reduce operator exposure, fugitive emissions, sample contamination, and process loss while improving sample consistency and laboratory reliability. Demand is also supported by plant upgrades, safety retrofits, quality control requirements, and increasing adoption of standardized sampling panels and sealed sample cylinders. Future competition will focus on material compatibility, leakage control, purge efficiency, ergonomic operation, modular design, corrosion resistance, interlock safety, ease of maintenance, and integration with plant safety management procedures. Overall, the market has stable growth potential as high-risk process industries continue to improve sampling safety and regulatory compliance.

LP Information, Inc. (LPI) ' newest research report, the "Closed Loop Sampling System Industry Forecast" looks at past sales and reviews total world Closed Loop Sampling System sales in 2025, providing a comprehensive analysis by region and market sector of projected Closed Loop Sampling System sales for 2026 through 2032. With Closed Loop Sampling System sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Closed Loop Sampling System industry.

This Insight Report provides a comprehensive analysis of the global Closed Loop Sampling System landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Closed Loop Sampling System portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Closed Loop Sampling System market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Closed Loop Sampling System and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-

up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Closed Loop Sampling System.

This report presents a comprehensive overview, market shares, and growth opportunities of Closed Loop Sampling System market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Closed Loop Sampling Systems for Gas

Closed Loop Sampling Systems for Liquid

Segmentation by Sampling Pressure:

Below 1 MPa

1 MPa to 10 MPa

10 MPa to 35 MPa

Above 35 MPa

Segmentation by Sampling Temperature:

Low-temperature Closed Loop Sampling System

Medium-temperature Closed Loop Sampling System

High-temperature Closed Loop Sampling System

Ultra-high-temperature Closed Loop Sampling System

Segmentation by Application:

Chemical Industry

Oil & Gas

Food & Beverage

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

SOR Inc

Swagelok Company

Modcon Systems

Advanced CAE

Mechatest Sampling Solutions

Texas Sampling

Chemtron Science Laboratories Private Limited

Fushun Boruite Science and Technology Co., Ltd.

DOPAK

Sentry Equipment

Parker Hannifin

Fitok Group

Key Questions Addressed in this Report

What is the 10-year outlook for the global Closed Loop Sampling System market?

What factors are driving Closed Loop Sampling System market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Closed Loop Sampling System market opportunities vary by end market size?

How does Closed Loop Sampling System break out by Type, by Application?

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