

# Global Biofuel Fluid Automation Solutions Market 2025 by Company, Regions, Type and Application, Forecast to 2031

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## Abstracts

According to our latest research, the global Biofuel Fluid Automation Solutions market size will reach USD 10290 million in 2031, growing at a CAGR of 7.7% over the analysis period.

Biofuel Fluid Automation Solutions refer to a series of technologies, equipment, and systems designed to automate and optimize the fluid - related processes in biofuel production. The following are the specific explanations:

- Liquefaction: In the biofuel production process, an efficient and precise liquefaction process is crucial. Biofuel Fluid Automation Solutions use components like ASCO solenoid valves, which are designed to handle aggressive liquids, gases, hot water, oils, and other fluids. These valves can operate effectively at high temperatures and various pressures, maintaining peak efficiency to ensure the smooth progress of the liquefaction process.
- Distillation: Components that ensure the proper flow of liquid and steam are essential in the distillation process. Products such as ASCO filter regulators, pilot valves, and rotary position indicators are manufactured to operate reliably in high-temperature and high-pressure applications. They increase quality, accuracy, and dependability at critical points in the distillation process, helping to provide both safe operations and high-quality results.
- Boiler control: High-temperature and high-pressure components are required to keep biofuel boilers running smoothly. ASCO combustion shut-off valves are used to control fuel flows to the burner with precision. The hydramotor product line provides better

control of natural gas for boiler operations, and solenoid valves can manage steam distribution during processing.

- Grain dryers: In biofuel operations, grain dryers need to operate with precision and efficiency. ASCO combustion shut-off valves effectively control fuel flows to the burner that supplies heat to the dryer. The hydramotor product line offers enhanced control of natural gas for dryer operations. These components can work in high-temperature and moist conditions.

- Distributed control system: Biofuel plants are typically controlled by a distributed control system (DCS). Biofuel Fluid Automation Solutions optimize the process control architecture through valve islands. For example, ASCO valve islands use the best-integrated remote I/O and pneumatic valve island structure for system configuration. The CHARM from the DeltaV system is used to integrate fluid automation solutions with the DCS. Meanwhile, DCS communication is supported by various G3 fieldbus module protocols, including Profibus-DP, Ethernet/IP, and others.

In summary, Biofuel Fluid Automation Solutions play a vital role in improving the efficiency, quality, and reliability of biofuel production, helping manufacturers better adapt to market demands and environmental protection requirements.

This report is a detailed and comprehensive analysis for global Biofuel Fluid Automation Solutions market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Biofuel Fluid Automation Solutions market size and forecasts, in consumption value (\$ Million), 2020-2031

Global Biofuel Fluid Automation Solutions market size and forecasts by region and country, in consumption value (\$ Million), 2020-2031

Global Biofuel Fluid Automation Solutions market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2020-2031

Global Biofuel Fluid Automation Solutions market shares of main players, in revenue (\$ Million), 2020-2025

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Biofuel Fluid Automation Solutions

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Biofuel Fluid Automation Solutions market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Emerson Electric, Process Industry Forum, Valmet, Ecolab, ALFA LAVAL, Kurita America Inc., Yokogawa Electric Corporation, Schneider Electric, etc.

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

### Market segmentation

Biofuel Fluid Automation Solutions market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Solutions based on Sensors and Control Systems

Solutions based on Automated Actuators

Solutions based on Intelligent Algorithms and Software

## Market segment by Application

Transportation

Energy and Electricity

Industrial Processing

Others

## Market segment by players, this report covers

Emerson Electric

Process Industry Forum

Valmet

Ecolab

ALFA LAVAL

Kurita America Inc.

Yokogawa Electric Corporation

Schneider Electric

## Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-

Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 13 chapters:**

Chapter 1, to describe Biofuel Fluid Automation Solutions product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Biofuel Fluid Automation Solutions, with revenue, gross margin, and global market share of Biofuel Fluid Automation Solutions from 2020 to 2025.

Chapter 3, the Biofuel Fluid Automation Solutions competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2020 to 2031

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2020 to 2025. and Biofuel Fluid Automation Solutions market forecast, by regions, by Type and by Application, with consumption value, from 2026 to 2031.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

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