

# **ATEX Pump Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented, By Type (Centrifugal, Peristaltic, Diaphragm, and Others), By End- User Industry (Oil & Gas, Chemicals, Pharmaceuticals, Mining, and Others), By Region & Competition, 2021-2031F**

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## **Abstracts**

The global ATEX pump market is projected to expand significantly, rising from USD 8.18 billion in 2025 to USD 11.52 billion by 2031, at a compound annual growth rate of 5.87%. ATEX pumps are crucial specialized fluid handling systems engineered for safe operation in potentially explosive atmospheres, adhering strictly to European Union directives to prevent the ignition of flammable gases, mists, or dusts. Market growth is primarily fueled by stringent industrial safety regulations and increasing capital expenditures in hazardous sectors like oil, gas, and petrochemicals.

For instance, global upstream oil and gas capital expenditures were projected to exceed \$600 billion in 2024, driving demand for compliant safety-critical equipment. However, a significant challenge to market expansion lies in the substantial cost and technical complexity associated with obtaining and maintaining ATEX certification. These rigorous testing and documentation requirements increase production costs and extend development timelines, creating a financial burden that can delay investments and restrict market entry for smaller competitors, especially amid economic uncertainty in key manufacturing regions.

## **Market Driver**

A primary force driving the adoption of ATEX-certified pumping systems is the

expansion of global oil and gas exploration and refining activities. As energy companies venture into deeper offshore reserves and modernize existing infrastructure, there is a critical need for equipment capable of safely handling volatile hydrocarbons without igniting combustible atmospheres. This surge in exploration mandates the deployment of high-integrity centrifugal and positive displacement pumps designed to meet rigorous explosive atmosphere standards, ensuring operational continuity in hazardous zones, supported by a projected \$17.4 trillion cumulative investment in the oil industry by 2050.

Concurrently, rising capital expenditure in the chemical and petrochemical processing industries further accelerates market demand. Manufacturers scaling production of polymers, agrochemicals, and specialty solvents require explosion-proof pumps to ensure process safety and regulatory compliance when handling aggressive, flammable fluids. The integration of these pumps is essential for preventing catastrophic failures during the transport of volatile chemical feedstocks, driving significant procurement of certified fluid handling units, exemplified by BASF's planned €19.5 billion in capital expenditures between 2024 and 2027 to upgrade and expand its global production network.

## **Market Challenge**

The substantial cost and technical complexity inherent in obtaining and maintaining ATEX certification represent a significant barrier to the growth of the Global ATEX Pump Market. Manufacturers must allocate extensive financial resources and specialized engineering efforts to navigate the rigorous testing and documentation protocols required for compliance. This demanding process not only increases the breakeven point for new product lines, necessitating longer periods to amortize high certification expenses, but also delays time-to-market for compliant fluid handling systems.

Consequently, this financial and technical burden discourages smaller manufacturers from entering the hazardous area sector, thereby reducing overall market competition and innovation rates. The impact of these regulatory and operational pressures is further evident in the suppressed output of the broader machinery sector, particularly in Europe where these strict directives originate, with a forecast 5% production decline in 2025 due to rising regulatory costs and economic headwinds, directly hindering the certified pump market's growth trajectory.

## **Market Trends**

Two significant trends are currently shaping the ATEX pump market, starting with the increasing deployment of AI-driven predictive maintenance solutions. By embedding smart sensors and utilizing machine learning algorithms, operators can monitor critical parameters like vibration and temperature in real-time, effectively identifying potential failures before they lead to ignition sources or containment breaches. This technological shift is crucial for minimizing unplanned downtime and enhancing operational safety in volatile zones, with 83% of manufacturers anticipated to deploy generative artificial intelligence in their operations in 2024.

Simultaneously, the market is undergoing a strategic expansion into biofuel, biogas, and waste-to-energy applications, driven by the broader industrial transition towards low-carbon fuel sources. This energy shift necessitates specialized fluid handling equipment capable of safely transporting volatile bio-based liquids such as ethanol and biodiesel, which fall under explosive atmosphere regulations. Consequently, pump manufacturers are increasingly engineering units compatible with the specific corrosivity and flammability profiles of these renewable fuels, supporting a projected 38 billion-liter expansion in global biofuel demand over the 2023-2028 period.

### **Key Market Players**

Grundfos Holding A/S

Sulzer Ltd.

Flowserve Corporation

ITT Inc.

KSB SE & Co. KGaA

SPX FLOW, Inc.

Xylem Inc.

Verder Group

EBARA Corporation

WILO SE

## Report Scope

In this report, the Global ATEX Pump Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

### ATEX Pump Market, By Type

Centrifugal

Peristaltic

Diaphragm

Others

### ATEX Pump Market, By End- User Industry

Oil & Gas

Chemicals

Pharmaceuticals

Mining

Others

### ATEX Pump Market, By Region

North America

United States

Canada

Mexico

## Europe

France

United Kingdom

Italy

Germany

Spain

## Asia Pacific

China

India

Japan

Australia

South Korea

## South America

Brazil

Argentina

Colombia

## Middle East & Africa

South Africa

Saudi Arabia

UAE

## **Competitive Landscape**

Company Profiles: Detailed analysis of the major companies present in the Global ATEX Pump Market.

## **Available Customizations:**

Global ATEX Pump Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## **Company Information**

Detailed analysis and profiling of additional market players (up to five).

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