

Global Piezo Actuated Jet Dispensing Valves Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Piezo Actuated Jet Dispensing Valves market size was valued at US\$ 589 million in 2024 and is forecast to a readjusted size of USD 814 million by 2031 with a CAGR of 4.8% during review period.

Piezoelectric jet dispensing valve uses the characteristics of piezoelectric materials to generate mechanical force through voltage. When the piezoelectric material below is charged, the valve opens; when the piezoelectric material above is charged, the valve closes. Because the space for opening and closing the valve is extremely small and the operating frequency is extremely high, it can eject a very small amount of liquid material at high speed.

Piezo actuated jet dispensing valves are precision dispensing devices widely used in various industries, including electronics, automotive, medical, and more. These valves use piezoelectric technology to control the dispensing of fluids or adhesives in a precise and controlled manner.

Miniaturization and Microdispensing: A significant trend is the demand for miniaturization and microdispensing capabilities of piezo actuated jet dispensing valves. Industries are increasingly requiring precise and controlled dispensing of very small volumes of fluids, especially in electronics and medical applications.

High-Speed Dispensing: The demand for faster and more efficient dispensing processes has led to a trend in high-speed dispensing capabilities of piezo actuated jet valves. This is particularly important for high-volume production lines.

Non-Contact Dispensing Technology: The trend toward non-contact dispensing using piezo actuated jet valves is growing, as it reduces the risk of contamination and damage to sensitive substrates. This is particularly relevant in industries such as electronics and medical devices.

Integration with Industry 4.0 and Smart Manufacturing: Integration of piezo actuated jet dispensing valves with Industry 4.0 principles, including IoT (Internet of Things), data analytics, and connectivity, is a significant trend. This integration allows for remote monitoring, predictive maintenance, and optimization of dispensing processes

This report is a detailed and comprehensive analysis for global Piezo Actuated Jet Dispensing Valves market. Both quantitative and qualitative analyses are presented by manufacturers, 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 Piezo Actuated Jet Dispensing Valves market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Piezo Actuated Jet Dispensing Valves market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Piezo Actuated Jet Dispensing Valves market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Piezo Actuated Jet Dispensing Valves market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 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 Piezo Actuated Jet Dispensing Valves
To forecast future growth in each product and end-use market
To forecast future factors affecting the marketplace

This report profiles key players in the global Piezo Actuated Jet Dispensing Valves market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include TECHCON, Nordson ASYMTEK, VERMES Microdispensing GmbH, Fisnar, Marco Systemanalysis und Entwicklung Gmb, Essemtec, Lerner Systems, DELO, SSI (Samurai Spirit), Fritsch, etc.

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

Market Segmentation

Piezo Actuated Jet Dispensing Valves 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 in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Jet Frequency 500Hz Below

Jet Frequency 500-1000Hz

Jet Frequency 1000-1500Hz

Jet Frequency 1500Hz Above

Market segment by Application

Acoustics

Optics

Semiconductor

Vehicle Electronics

Photovoltaic

New Energy Battery

Flexible Circuit Board

LED Display

Others

Major players covered

TECHCON

Nordson ASYMTEK

VERMES Microdispensing GmbH

Fisnar

Marco Systemanalysis und Entwicklung GmbH

Essemtec

Lerner Systems

DELO

SSI (Samurai Spirit)

Fritsch

Chaozhou Three-Circle (Group)

GK-PRETECH

Mingsai Android Technology

SZLKTE

Axxon Automation

ASONG

Beijing Paihe Technology

Auosertech

ZhuoZhao Technology

MAIWEITE TECHNOLOGY

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Piezo Actuated Jet Dispensing Valves product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Piezo Actuated Jet Dispensing Valves, with price, sales quantity, revenue, and global market share of Piezo Actuated Jet Dispensing Valves from 2020 to 2025.

Chapter 3, the Piezo Actuated Jet Dispensing Valves competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Piezo Actuated Jet Dispensing Valves breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Piezo Actuated Jet Dispensing Valves market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Piezo Actuated Jet Dispensing Valves.

Chapter 14 and 15, to describe Piezo Actuated Jet Dispensing Valves sales channel, distributors, customers, research findings and conclusion.

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