

Global Mass Flow Controller for Medical & Life Sciences Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G8B7057DF74DEN.html>

Date: July 2026

Pages: 137

Price: US\$ 3,480.00 (Single User License)

ID: G8B7057DF74DEN

Abstracts

According to our (Global Info Research) latest study, the global Mass Flow Controller for Medical & Life Sciences market size was valued at US\$ 247 million in 2025 and is forecast to a readjusted size of US\$ 444 million by 2032 with a CAGR of 8.6% during review period.

Mass Flow Controllers (MFC) for medical and life sciences applications are precision flow-control components used in medical devices, life-science instruments, bioreactors, biopharmaceutical manufacturing systems, diagnostic instruments, and medical gas-control platforms. These devices typically integrate a mass flow sensor, a proportional or piezoelectric valve, control electronics, and analog or digital communication interfaces to measure and regulate the flow of oxygen, air, nitrogen, carbon dioxide, nitrous oxide, nitric oxide, or cell-culture gas mixtures in a closed-loop manner. This study focuses on MFCs used as OEM modules, life-science equipment components, and bioprocess control elements, with emphasis on compact design, low power consumption, low acoustic noise, fast response, clean wetted materials, USP Class VI/FDA-related material options, calibration traceability, digital communications, and production consistency.

According to our research, under the medical industry scope, MFCs share the same fundamental ?mass flow control? technology base with semiconductor MFCs, but their competitive logic is clearly different. Semiconductor MFCs emphasize high cleanliness, corrosion resistance, and compatibility with process gases, while medical and life sciences MFCs place greater emphasis on miniaturization, low noise, low power consumption, traceable calibration, biocompatible materials, fast response, medical device OEM integration, and biopharmaceutical process stability.

From the demand structure perspective, the largest incremental growth for medical MFCs does not come from traditional hospital oxygen flowmeters, but from equipment automation upgrades. Biopharmaceuticals, cell culture, vaccines, cell therapy, and single-use bioreactors require stable, repeatable, and recordable gas control for O₂, CO₂, N₂, and air. MFCs directly affect dissolved oxygen, pH, cell growth, and batch-to-batch consistency. Respiratory therapy, anesthesia, and medical gas delivery applications are also driving the development of compact, low-power, low-noise, and fast-response MFC modules. In diagnostic and analytical instruments, gas control modules are gradually shifting from mechanical regulation to electronic, modular, and closed-loop control.

From the supply landscape perspective, the medical MFC market is not dominated by a single leader. Instead, it is composed of medical device OEM module suppliers, biopharmaceutical MFC manufacturers, laboratory MFC suppliers, and industrial fluid control companies. European suppliers are stronger in pharmaceutical, bioprocessing, and life sciences fluid systems; U.S. suppliers are more active in laboratory, OEM, and bioreactor applications; Japanese suppliers have a foundation in pharmaceutical equipment and industrial automation extension scenarios; and Chinese suppliers are still in the early stage of domestic substitution. Future competition will shift from whether flow can be measured and controlled to material compliance, cleanliness, digital communication, equipment integration efficiency, long-term drift, calibration traceability, and batch consistency.

This report is a detailed and comprehensive analysis for global Mass Flow Controller for Medical & Life Sciences 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 Mass Flow Controller for Medical & Life Sciences market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Mass Flow Controller for Medical & Life Sciences market size and forecasts by

region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Mass Flow Controller for Medical & Life Sciences market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Mass Flow Controller for Medical & Life Sciences market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

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 Mass Flow Controller for Medical & Life Sciences

- 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 Mass Flow Controller for Medical & Life Sciences 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 Sensirion AG, Festo SE & Co. KG, Brooks Instrument, Bronkhorst High-Tech B.V., Christian Borkert GmbH & Co. KG, Alicat Scientific, Inc., TASI Group, HORIBA, Ltd., Azbil Corporation, Parker Hannifin Corporation, etc.

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

Market Segmentation

Mass Flow Controller for Medical & Life Sciences market is split by Type and by Application. For the period 2021-2032, 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

Gas Mass Flow Controller

Liquid Flow Controller

Other

Market segment by Technology

MEMS Thermal MFC

Capillary Thermal MFC

Coriolis MFC

Differential Pressure MFC

Piezo-valve Integrated MFC

Market segment by Controlled Medium

Oxygen / Air Control

Carbon Dioxide Control

Nitrogen / Inert Gas Control

Mixed Gas Control

Liquid / Reagent Control

Market segment by Product Grade

Medical OEM Grade

Biopharma Grade

Laboratory Grade

Industrial Life-science Grade

Market segment by Application

Respiratory and Anesthesia Gas Control

Bioreactor and Fermentation Control

Biopharmaceutical Manufacturing

Diagnostic and Analytical Instruments

Laboratory and Research Equipment

Other Medical OEM Equipment

Major players covered

Sensirion AG

Festo SE & Co. KG

Brooks Instrument

Bronkhorst High-Tech B.V.

Christian Br kert GmbH & Co. KG

Alicat Scientific, Inc.

TASI Group

HORIBA, Ltd.

Azbil Corporation

Parker Hannifin Corporation

Teledyne Technologies Incorporated

KOFLOC Corporation

Clippard Instrument Laboratory, Inc.

CKD Corporation

Beijing Huacheng Electronics Co., Ltd.

Aalborg Instruments & Controls, Inc.

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 Mass Flow Controller for Medical & Life Sciences product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Mass Flow Controller for Medical & Life Sciences, with price, sales quantity, revenue, and global market share of Mass Flow Controller for Medical & Life Sciences from 2021 to 2026.

Chapter 3, the Mass Flow Controller for Medical & Life Sciences competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Mass Flow Controller for Medical & Life Sciences breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Mass Flow Controller for Medical & Life Sciences market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Mass Flow Controller for Medical & Life Sciences.

Chapter 14 and 15, to describe Mass Flow Controller for Medical & Life Sciences sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Mass Flow Controller for Medical & Life Sciences Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Gas Mass Flow Controller

1.3.3 Liquid Flow Controller

1.3.4 Other

1.4 Market Analysis by Technology

1.4.1 Overview: Global Mass Flow Controller for Medical & Life Sciences Consumption Value by Technology: 2021 Versus 2025 Versus 2032

1.4.2 MEMS Thermal MFC

1.4.3 Capillary Thermal MFC

1.4.4 Coriolis MFC

1.4.5 Differential Pressure MFC

1.4.6 Piezo-valve Integrated MFC

1.5 Market Analysis by Controlled Medium

1.5.1 Overview: Global Mass Flow Controller for Medical & Life Sciences Consumption Value by Controlled Medium: 2021 Versus 2025 Versus 2032

1.5.2 Oxygen / Air Control

1.5.3 Carbon Dioxide Control

1.5.4 Nitrogen / Inert Gas Control

1.5.5 Mixed Gas Control

1.5.6 Liquid / Reagent Control

1.6 Market Analysis by Product Grade

1.6.1 Overview: Global Mass Flow Controller for Medical & Life Sciences Consumption Value by Product Grade: 2021 Versus 2025 Versus 2032

1.6.2 Medical OEM Grade

1.6.3 Biopharma Grade

1.6.4 Laboratory Grade

1.6.5 Industrial Life-science Grade

1.7 Market Analysis by Application

1.7.1 Overview: Global Mass Flow Controller for Medical & Life Sciences Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.7.2 Respiratory and Anesthesia Gas Control

- 1.7.3 Bioreactor and Fermentation Control
- 1.7.4 Biopharmaceutical Manufacturing
- 1.7.5 Diagnostic and Analytical Instruments
- 1.7.6 Laboratory and Research Equipment
- 1.7.7 Other Medical OEM Equipment
- 1.8 Global Mass Flow Controller for Medical & Life Sciences Market Size & Forecast
 - 1.8.1 Global Mass Flow Controller for Medical & Life Sciences Consumption Value (2021 & 2025 & 2032)
 - 1.8.2 Global Mass Flow Controller for Medical & Life Sciences Sales Quantity (2021-2032)
 - 1.8.3 Global Mass Flow Controller for Medical & Life Sciences Average Price (2021-2032)

2 MANUFACTURERS PROFILES

- 2.1 Sensirion AG
 - 2.1.1 Sensirion AG Details
 - 2.1.2 Sensirion AG Major Business
 - 2.1.3 Sensirion AG Mass Flow Controller for Medical & Life Sciences Product and Services
 - 2.1.4 Sensirion AG Mass Flow Controller for Medical & Life Sciences Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.1.5 Sensirion AG Recent Developments/Updates
- 2.2 Festo SE & Co. KG
 - 2.2.1 Festo SE & Co. KG Details
 - 2.2.2 Festo SE & Co. KG Major Business
 - 2.2.3 Festo SE & Co. KG Mass Flow Controller for Medical & Life Sciences Product and Services
 - 2.2.4 Festo SE & Co. KG Mass Flow Controller for Medical & Life Sciences Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.2.5 Festo SE & Co. KG Recent Developments/Updates
- 2.3 Brooks Instrument
 - 2.3.1 Brooks Instrument Details
 - 2.3.2 Brooks Instrument Major Business
 - 2.3.3 Brooks Instrument Mass Flow Controller for Medical & Life Sciences Product and Services
 - 2.3.4 Brooks Instrument Mass Flow Controller for Medical & Life Sciences Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.3.5 Brooks Instrument Recent Developments/Updates

2.4 Bronkhorst High-Tech B.V.

2.4.1 Bronkhorst High-Tech B.V. Details

2.4.2 Bronkhorst High-Tech B.V. Major Business

2.4.3 Bronkhorst High-Tech B.V. Mass Flow Controller for Medical & Life Sciences

Product and Services

2.4.4 Bronkhorst High-Tech B.V. Mass Flow Controller for Medical & Life Sciences

Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Bronkhorst High-Tech B.V. Recent Developments/Updates

2.5 Christian Børkert GmbH & Co. KG

2.5.1 Christian Børkert GmbH & Co. KG Details

2.5.2 Christian Børkert GmbH & Co. KG Major Business

2.5.3 Christian Børkert GmbH & Co. KG Mass Flow Controller for Medical & Life

Sciences Product and Services

2.5.4 Christian Børkert GmbH & Co. KG Mass Flow Controller for Medical & Life

Sciences Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 Christian Børkert GmbH & Co. KG Recent Developments/Updates

2.6 Alicat Scientific, Inc.

2.6.1 Alicat Scientific, Inc. Details

2.6.2 Alicat Scientific, Inc. Major Business

2.6.3 Alicat Scientific, Inc. Mass Flow Controller for Medical & Life Sciences Product and Services

2.6.4 Alicat Scientific, Inc. Mass Flow Controller for Medical & Life Sciences Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 Alicat Scientific, Inc. Recent Developments/Updates

2.7 TASI Group

2.7.1 TASI Group Details

2.7.2 TASI Group Major Business

2.7.3 TASI Group Mass Flow Controller for Medical & Life Sciences Product and Services

2.7.4 TASI Group Mass Flow Controller for Medical & Life Sciences Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 TASI Group Recent Developments/Updates

2.8 HORIBA, Ltd.

2.8.1 HORIBA, Ltd. Details

2.8.2 HORIBA, Ltd. Major Business

2.8.3 HORIBA, Ltd. Mass Flow Controller for Medical & Life Sciences Product and Services

2.8.4 HORIBA, Ltd. Mass Flow Controller for Medical & Life Sciences Sales Quantity,

Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 HORIBA, Ltd. Recent Developments/Updates

2.9 Azbil Corporation

2.9.1 Azbil Corporation Details

2.9.2 Azbil Corporation Major Business

2.9.3 Azbil Corporation Mass Flow Controller for Medical & Life Sciences Product and Services

2.9.4 Azbil Corporation Mass Flow Controller for Medical & Life Sciences Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 Azbil Corporation Recent Developments/Updates

2.10 Parker Hannifin Corporation

2.10.1 Parker Hannifin Corporation Details

2.10.2 Parker Hannifin Corporation Major Business

2.10.3 Parker Hannifin Corporation Mass Flow Controller for Medical & Life Sciences Product and Services

2.10.4 Parker Hannifin Corporation Mass Flow Controller for Medical & Life Sciences Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 Parker Hannifin Corporation Recent Developments/Updates

2.11 Teledyne Technologies Incorporated

2.11.1 Teledyne Technologies Incorporated Details

2.11.2 Teledyne Technologies Incorporated Major Business

2.11.3 Teledyne Technologies Incorporated Mass Flow Controller for Medical & Life Sciences Product and Services

2.11.4 Teledyne Technologies Incorporated Mass Flow Controller for Medical & Life Sciences Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 Teledyne Technologies Incorporated Recent Developments/Updates

2.12 KOFLOC Corporation

2.12.1 KOFLOC Corporation Details

2.12.2 KOFLOC Corporation Major Business

2.12.3 KOFLOC Corporation Mass Flow Controller for Medical & Life Sciences Product and Services

2.12.4 KOFLOC Corporation Mass Flow Controller for Medical & Life Sciences Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.12.5 KOFLOC Corporation Recent Developments/Updates

2.13 Clippard Instrument Laboratory, Inc.

2.13.1 Clippard Instrument Laboratory, Inc. Details

2.13.2 Clippard Instrument Laboratory, Inc. Major Business

2.13.3 Clippard Instrument Laboratory, Inc. Mass Flow Controller for Medical & Life

Sciences Product and Services

2.13.4 Clippard Instrument Laboratory, Inc. Mass Flow Controller for Medical & Life Sciences Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.13.5 Clippard Instrument Laboratory, Inc. Recent Developments/Updates

2.14 CKD Corporation

2.14.1 CKD Corporation Details

2.14.2 CKD Corporation Major Business

2.14.3 CKD Corporation Mass Flow Controller for Medical & Life Sciences Product and Services

2.14.4 CKD Corporation Mass Flow Controller for Medical & Life Sciences Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.14.5 CKD Corporation Recent Developments/Updates

2.15 Beijing Huacheng Electronics Co., Ltd.

2.15.1 Beijing Huacheng Electronics Co., Ltd. Details

2.15.2 Beijing Huacheng Electronics Co., Ltd. Major Business

2.15.3 Beijing Huacheng Electronics Co., Ltd. Mass Flow Controller for Medical & Life Sciences Product and Services

2.15.4 Beijing Huacheng Electronics Co., Ltd. Mass Flow Controller for Medical & Life Sciences Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.15.5 Beijing Huacheng Electronics Co., Ltd. Recent Developments/Updates

2.16 Aalborg Instruments & Controls, Inc.

2.16.1 Aalborg Instruments & Controls, Inc. Details

2.16.2 Aalborg Instruments & Controls, Inc. Major Business

2.16.3 Aalborg Instruments & Controls, Inc. Mass Flow Controller for Medical & Life Sciences Product and Services

2.16.4 Aalborg Instruments & Controls, Inc. Mass Flow Controller for Medical & Life Sciences Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.16.5 Aalborg Instruments & Controls, Inc. Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: MASS FLOW CONTROLLER FOR MEDICAL & LIFE SCIENCES BY MANUFACTURER

3.1 Global Mass Flow Controller for Medical & Life Sciences Sales Quantity by Manufacturer (2021-2026)

3.2 Global Mass Flow Controller for Medical & Life Sciences Revenue by Manufacturer (2021-2026)

3.3 Global Mass Flow Controller for Medical & Life Sciences Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of Mass Flow Controller for Medical & Life Sciences by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 Mass Flow Controller for Medical & Life Sciences Manufacturer Market Share in 2025

3.4.3 Top 6 Mass Flow Controller for Medical & Life Sciences Manufacturer Market Share in 2025

3.5 Mass Flow Controller for Medical & Life Sciences Market: Overall Company Footprint Analysis

3.5.1 Mass Flow Controller for Medical & Life Sciences Market: Region Footprint

3.5.2 Mass Flow Controller for Medical & Life Sciences Market: Company Product Type Footprint

3.5.3 Mass Flow Controller for Medical & Life Sciences Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Mass Flow Controller for Medical & Life Sciences Market Size by Region

4.1.1 Global Mass Flow Controller for Medical & Life Sciences Sales Quantity by Region (2021-2032)

4.1.2 Global Mass Flow Controller for Medical & Life Sciences Consumption Value by Region (2021-2032)

4.1.3 Global Mass Flow Controller for Medical & Life Sciences Average Price by Region (2021-2032)

4.2 North America Mass Flow Controller for Medical & Life Sciences Consumption Value (2021-2032)

4.3 Europe Mass Flow Controller for Medical & Life Sciences Consumption Value (2021-2032)

4.4 Asia-Pacific Mass Flow Controller for Medical & Life Sciences Consumption Value (2021-2032)

4.5 South America Mass Flow Controller for Medical & Life Sciences Consumption Value (2021-2032)

4.6 Middle East & Africa Mass Flow Controller for Medical & Life Sciences Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Mass Flow Controller for Medical & Life Sciences Sales Quantity by Type (2021-2032)

5.2 Global Mass Flow Controller for Medical & Life Sciences Consumption Value by Type (2021-2032)

5.3 Global Mass Flow Controller for Medical & Life Sciences Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Mass Flow Controller for Medical & Life Sciences Sales Quantity by Application (2021-2032)

6.2 Global Mass Flow Controller for Medical & Life Sciences Consumption Value by Application (2021-2032)

6.3 Global Mass Flow Controller for Medical & Life Sciences Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Mass Flow Controller for Medical & Life Sciences Sales Quantity by Type (2021-2032)

7.2 North America Mass Flow Controller for Medical & Life Sciences Sales Quantity by Application (2021-2032)

7.3 North America Mass Flow Controller for Medical & Life Sciences Market Size by Country

7.3.1 North America Mass Flow Controller for Medical & Life Sciences Sales Quantity by Country (2021-2032)

7.3.2 North America Mass Flow Controller for Medical & Life Sciences Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Mass Flow Controller for Medical & Life Sciences Sales Quantity by Type (2021-2032)

8.2 Europe Mass Flow Controller for Medical & Life Sciences Sales Quantity by

Application (2021-2032)

8.3 Europe Mass Flow Controller for Medical & Life Sciences Market Size by Country

8.3.1 Europe Mass Flow Controller for Medical & Life Sciences Sales Quantity by Country (2021-2032)

8.3.2 Europe Mass Flow Controller for Medical & Life Sciences Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Mass Flow Controller for Medical & Life Sciences Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Mass Flow Controller for Medical & Life Sciences Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Mass Flow Controller for Medical & Life Sciences Market Size by Region

9.3.1 Asia-Pacific Mass Flow Controller for Medical & Life Sciences Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Mass Flow Controller for Medical & Life Sciences Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Mass Flow Controller for Medical & Life Sciences Sales Quantity by Type (2021-2032)

10.2 South America Mass Flow Controller for Medical & Life Sciences Sales Quantity by Application (2021-2032)

10.3 South America Mass Flow Controller for Medical & Life Sciences Market Size by Country

10.3.1 South America Mass Flow Controller for Medical & Life Sciences Sales Quantity by Country (2021-2032)

10.3.2 South America Mass Flow Controller for Medical & Life Sciences Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Mass Flow Controller for Medical & Life Sciences Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Mass Flow Controller for Medical & Life Sciences Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Mass Flow Controller for Medical & Life Sciences Market Size by Country

11.3.1 Middle East & Africa Mass Flow Controller for Medical & Life Sciences Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Mass Flow Controller for Medical & Life Sciences Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 Mass Flow Controller for Medical & Life Sciences Market Drivers

12.2 Mass Flow Controller for Medical & Life Sciences Market Restraints

12.3 Mass Flow Controller for Medical & Life Sciences Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Mass Flow Controller for Medical & Life Sciences and Key

Manufacturers

13.2 Manufacturing Costs Percentage of Mass Flow Controller for Medical & Life Sciences

13.3 Mass Flow Controller for Medical & Life Sciences Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Mass Flow Controller for Medical & Life Sciences Typical Distributors

14.3 Mass Flow Controller for Medical & Life Sciences Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Mass Flow Controller for Medical & Life Sciences Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Mass Flow Controller for Medical & Life Sciences Consumption Value by Technology, (USD Million), 2021 & 2025 & 2032

Table 3. Global Mass Flow Controller for Medical & Life Sciences Consumption Value by Controlled Medium, (USD Million), 2021 & 2025 & 2032

Table 4. Global Mass Flow Controller for Medical & Life Sciences Consumption Value by Product Grade, (USD Million), 2021 & 2025 & 2032

Table 5. Global Mass Flow Controller for Medical & Life Sciences Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 6. Sensirion AG Basic Information, Manufacturing Base and Competitors

Table 7. Sensirion AG Major Business

Table 8. Sensirion AG Mass Flow Controller for Medical & Life Sciences Product and Services

Table 9. Sensirion AG Mass Flow Controller for Medical & Life Sciences Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 10. Sensirion AG Recent Developments/Updates

Table 11. Festo SE & Co. KG Basic Information, Manufacturing Base and Competitors

Table 12. Festo SE & Co. KG Major Business

Table 13. Festo SE & Co. KG Mass Flow Controller for Medical & Life Sciences Product and Services

Table 14. Festo SE & Co. KG Mass Flow Controller for Medical & Life Sciences Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 15. Festo SE & Co. KG Recent Developments/Updates

Table 16. Brooks Instrument Basic Information, Manufacturing Base and Competitors

Table 17. Brooks Instrument Major Business

Table 18. Brooks Instrument Mass Flow Controller for Medical & Life Sciences Product and Services

Table 19. Brooks Instrument Mass Flow Controller for Medical & Life Sciences Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 20. Brooks Instrument Recent Developments/Updates

Table 21. Bronkhorst High-Tech B.V. Basic Information, Manufacturing Base and

Competitors

Table 22. Bronkhorst High-Tech B.V. Major Business

Table 23. Bronkhorst High-Tech B.V. Mass Flow Controller for Medical & Life Sciences Product and Services

Table 24. Bronkhorst High-Tech B.V. Mass Flow Controller for Medical & Life Sciences Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 25. Bronkhorst High-Tech B.V. Recent Developments/Updates

Table 26. Christian Borkert GmbH & Co. KG Basic Information, Manufacturing Base and Competitors

Table 27. Christian Borkert GmbH & Co. KG Major Business

Table 28. Christian Borkert GmbH & Co. KG Mass Flow Controller for Medical & Life Sciences Product and Services

Table 29. Christian Borkert GmbH & Co. KG Mass Flow Controller for Medical & Life Sciences Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 30. Christian Borkert GmbH & Co. KG Recent Developments/Updates

Table 31. Alicat Scientific, Inc. Basic Information, Manufacturing Base and Competitors

Table 32. Alicat Scientific, Inc. Major Business

Table 33. Alicat Scientific, Inc. Mass Flow Controller for Medical & Life Sciences Product and Services

Table 34. Alicat Scientific, Inc. Mass Flow Controller for Medical & Life Sciences Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 35. Alicat Scientific, Inc. Recent Developments/Updates

Table 36. TASI Group Basic Information, Manufacturing Base and Competitors

Table 37. TASI Group Major Business

Table 38. TASI Group Mass Flow Controller for Medical & Life Sciences Product and Services

Table 39. TASI Group Mass Flow Controller for Medical & Life Sciences Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 40. TASI Group Recent Developments/Updates

Table 41. HORIBA, Ltd. Basic Information, Manufacturing Base and Competitors

Table 42. HORIBA, Ltd. Major Business

Table 43. HORIBA, Ltd. Mass Flow Controller for Medical & Life Sciences Product and Services

Table 44. HORIBA, Ltd. Mass Flow Controller for Medical & Life Sciences Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and

Market Share (2021-2026)

Table 45. HORIBA, Ltd. Recent Developments/Updates

Table 46. Azbil Corporation Basic Information, Manufacturing Base and Competitors

Table 47. Azbil Corporation Major Business

Table 48. Azbil Corporation Mass Flow Controller for Medical & Life Sciences Product and Services

Table 49. Azbil Corporation Mass Flow Controller for Medical & Life Sciences Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 50. Azbil Corporation Recent Developments/Updates

Table 51. Parker Hannifin Corporation Basic Information, Manufacturing Base and Competitors

Table 52. Parker Hannifin Corporation Major Business

Table 53. Parker Hannifin Corporation Mass Flow Controller for Medical & Life Sciences Product and Services

Table 54. Parker Hannifin Corporation Mass Flow Controller for Medical & Life Sciences Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 55. Parker Hannifin Corporation Recent Developments/Updates

Table 56. Teledyne Technologies Incorporated Basic Information, Manufacturing Base and Competitors

Table 57. Teledyne Technologies Incorporated Major Business

Table 58. Teledyne Technologies Incorporated Mass Flow Controller for Medical & Life Sciences Product and Services

Table 59. Teledyne Technologies Incorporated Mass Flow Controller for Medical & Life Sciences Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 60. Teledyne Technologies Incorporated Recent Developments/Updates

Table 61. KOFLOC Corporation Basic Information, Manufacturing Base and Competitors

Table 62. KOFLOC Corporation Major Business

Table 63. KOFLOC Corporation Mass Flow Controller for Medical & Life Sciences Product and Services

Table 64. KOFLOC Corporation Mass Flow Controller for Medical & Life Sciences Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 65. KOFLOC Corporation Recent Developments/Updates

Table 66. Clippard Instrument Laboratory, Inc. Basic Information, Manufacturing Base and Competitors

Table 67. Clippard Instrument Laboratory, Inc. Major Business

Table 68. Clippard Instrument Laboratory, Inc. Mass Flow Controller for Medical & Life Sciences Product and Services

Table 69. Clippard Instrument Laboratory, Inc. Mass Flow Controller for Medical & Life Sciences Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 70. Clippard Instrument Laboratory, Inc. Recent Developments/Updates

Table 71. CKD Corporation Basic Information, Manufacturing Base and Competitors

Table 72. CKD Corporation Major Business

Table 73. CKD Corporation Mass Flow Controller for Medical & Life Sciences Product and Services

Table 74. CKD Corporation Mass Flow Controller for Medical & Life Sciences Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 75. CKD Corporation Recent Developments/Updates

Table 76. Beijing Huacheng Electronics Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 77. Beijing Huacheng Electronics Co., Ltd. Major Business

Table 78. Beijing Huacheng Electronics Co., Ltd. Mass Flow Controller for Medical & Life Sciences Product and Services

Table 79. Beijing Huacheng Electronics Co., Ltd. Mass Flow Controller for Medical & Life Sciences Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 80. Beijing Huacheng Electronics Co., Ltd. Recent Developments/Updates

Table 81. Aalborg Instruments & Controls, Inc. Basic Information, Manufacturing Base and Competitors

Table 82. Aalborg Instruments & Controls, Inc. Major Business

Table 83. Aalborg Instruments & Controls, Inc. Mass Flow Controller for Medical & Life Sciences Product and Services

Table 84. Aalborg Instruments & Controls, Inc. Mass Flow Controller for Medical & Life Sciences Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Aalborg Instruments & Controls, Inc. Recent Developments/Updates

Table 86. Global Mass Flow Controller for Medical & Life Sciences Sales Quantity by Manufacturer (2021-2026) & (Units)

Table 87. Global Mass Flow Controller for Medical & Life Sciences Revenue by Manufacturer (2021-2026) & (USD Million)

Table 88. Global Mass Flow Controller for Medical & Life Sciences Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 89. Market Position of Manufacturers in Mass Flow Controller for Medical & Life Sciences, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 90. Head Office and Mass Flow Controller for Medical & Life Sciences Production Site of Key Manufacturer

Table 91. Mass Flow Controller for Medical & Life Sciences Market: Company Product Type Footprint

Table 92. Mass Flow Controller for Medical & Life Sciences Market: Company Product Application Footprint

Table 93. Mass Flow Controller for Medical & Life Sciences New Market Entrants and Barriers to Market Entry

Table 94. Mass Flow Controller for Medical & Life Sciences Mergers, Acquisition, Agreements, and Collaborations

Table 95. Global Mass Flow Controller for Medical & Life Sciences Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 96. Global Mass Flow Controller for Medical & Life Sciences Sales Quantity by Region (2021-2026) & (Units)

Table 97. Global Mass Flow Controller for Medical & Life Sciences Sales Quantity by Region (2027-2032) & (Units)

Table 98. Global Mass Flow Controller for Medical & Life Sciences Consumption Value by Region (2021-2026) & (USD Million)

Table 99. Global Mass Flow Controller for Medical & Life Sciences Consumption Value by Region (2027-2032) & (USD Million)

Table 100. Global Mass Flow Controller for Medical & Life Sciences Average Price by Region (2021-2026) & (US\$/Unit)

Table 101. Global Mass Flow Controller for Medical & Life Sciences Average Price by Region (2027-2032) & (US\$/Unit)

Table 102. Global Mass Flow Controller for Medical & Life Sciences Sales Quantity by Type (2021-2026) & (Units)

Table 103. Global Mass Flow Controller for Medical & Life Sciences Sales Quantity by Type (2027-2032) & (Units)

Table 104. Global Mass Flow Controller for Medical & Life Sciences Consumption Value by Type (2021-2026) & (USD Million)

Table 105. Global Mass Flow Controller for Medical & Life Sciences Consumption Value by Type (2027-2032) & (USD Million)

Table 106. Global Mass Flow Controller for Medical & Life Sciences Average Price by Type (2021-2026) & (US\$/Unit)

Table 107. Global Mass Flow Controller for Medical & Life Sciences Average Price by Type (2027-2032) & (US\$/Unit)

Table 108. Global Mass Flow Controller for Medical & Life Sciences Sales Quantity by

Application (2021-2026) & (Units)

Table 109. Global Mass Flow Controller for Medical & Life Sciences Sales Quantity by Application (2027-2032) & (Units)

Table 110. Global Mass Flow Controller for Medical & Life Sciences Consumption Value by Application (2021-2026) & (USD Million)

Table 111. Global Mass Flow Controller for Medical & Life Sciences Consumption Value by Application (2027-2032) & (USD Million)

Table 112. Global Mass Flow Controller for Medical & Life Sciences Average Price by Application (2021-2026) & (US\$/Unit)

Table 113. Global Mass Flow Controller for Medical & Life Sciences Average Price by Application (2027-2032) & (US\$/Unit)

Table 114. North America Mass Flow Controller for Medical & Life Sciences Sales Quantity by Type (2021-2026) & (Units)

Table 115. North America Mass Flow Controller for Medical & Life Sciences Sales Quantity by Type (2027-2032) & (Units)

Table 116. North America Mass Flow Controller for Medical & Life Sciences Sales Quantity by Application (2021-2026) & (Units)

Table 117. North America Mass Flow Controller for Medical & Life Sciences Sales Quantity by Application (2027-2032) & (Units)

Table 118. North America Mass Flow Controller for Medical & Life Sciences Sales Quantity by Country (2021-2026) & (Units)

Table 119. North America Mass Flow Controller for Medical & Life Sciences Sales Quantity by Country (2027-2032) & (Units)

Table 120. North America Mass Flow Controller for Medical & Life Sciences Consumption Value by Country (2021-2026) & (USD Million)

Table 121. North America Mass Flow Controller for Medical & Life Sciences Consumption Value by Country (2027-2032) & (USD Million)

Table 122. Europe Mass Flow Controller for Medical & Life Sciences Sales Quantity by Type (2021-2026) & (Units)

Table 123. Europe Mass Flow Controller for Medical & Life Sciences Sales Quantity by Type (2027-2032) & (Units)

Table 124. Europe Mass Flow Controller for Medical & Life Sciences Sales Quantity by Application (2021-2026) & (Units)

Table 125. Europe Mass Flow Controller for Medical & Life Sciences Sales Quantity by Application (2027-2032) & (Units)

Table 126. Europe Mass Flow Controller for Medical & Life Sciences Sales Quantity by Country (2021-2026) & (Units)

Table 127. Europe Mass Flow Controller for Medical & Life Sciences Sales Quantity by Country (2027-2032) & (Units)

Table 128. Europe Mass Flow Controller for Medical & Life Sciences Consumption Value by Country (2021-2026) & (USD Million)

Table 129. Europe Mass Flow Controller for Medical & Life Sciences Consumption Value by Country (2027-2032) & (USD Million)

Table 130. Asia-Pacific Mass Flow Controller for Medical & Life Sciences Sales Quantity by Type (2021-2026) & (Units)

Table 131. Asia-Pacific Mass Flow Controller for Medical & Life Sciences Sales Quantity by Type (2027-2032) & (Units)

Table 132. Asia-Pacific Mass Flow Controller for Medical & Life Sciences Sales Quantity by Application (2021-2026) & (Units)

Table 133. Asia-Pacific Mass Flow Controller for Medical & Life Sciences Sales Quantity by Application (2027-2032) & (Units)

Table 134. Asia-Pacific Mass Flow Controller for Medical & Life Sciences Sales Quantity by Region (2021-2026) & (Units)

Table 135. Asia-Pacific Mass Flow Controller for Medical & Life Sciences Sales Quantity by Region (2027-2032) & (Units)

Table 136. Asia-Pacific Mass Flow Controller for Medical & Life Sciences Consumption Value by Region (2021-2026) & (USD Million)

Table 137. Asia-Pacific Mass Flow Controller for Medical & Life Sciences Consumption Value by Region (2027-2032) & (USD Million)

Table 138. South America Mass Flow Controller for Medical & Life Sciences Sales Quantity by Type (2021-2026) & (Units)

Table 139. South America Mass Flow Controller for Medical & Life Sciences Sales Quantity by Type (2027-2032) & (Units)

Table 140. South America Mass Flow Controller for Medical & Life Sciences Sales Quantity by Application (2021-2026) & (Units)

Table 141. South America Mass Flow Controller for Medical & Life Sciences Sales Quantity by Application (2027-2032) & (Units)

Table 142. South America Mass Flow Controller for Medical & Life Sciences Sales Quantity by Country (2021-2026) & (Units)

Table 143. South America Mass Flow Controller for Medical & Life Sciences Sales Quantity by Country (2027-2032) & (Units)

Table 144. South America Mass Flow Controller for Medical & Life Sciences Consumption Value by Country (2021-2026) & (USD Million)

Table 145. South America Mass Flow Controller for Medical & Life Sciences Consumption Value by Country (2027-2032) & (USD Million)

Table 146. Middle East & Africa Mass Flow Controller for Medical & Life Sciences Sales Quantity by Type (2021-2026) & (Units)

Table 147. Middle East & Africa Mass Flow Controller for Medical & Life Sciences Sales

Quantity by Type (2027-2032) & (Units)

Table 148. Middle East & Africa Mass Flow Controller for Medical & Life Sciences Sales

Quantity by Application (2021-2026) & (Units)

Table 149. Middle East & Africa Mass Flow Controller for Medical & Life Sciences Sales

Quantity by Application (2027-2032) & (Units)

Table 150. Middle East & Africa Mass Flow Controller for Medical & Life Sciences Sales

Quantity by Country (2021-2026) & (Units)

Table 151. Middle East & Africa Mass Flow Controller for Medical & Life Sciences Sales

Quantity by Country (2027-2032) & (Units)

Table 152. Middle East & Africa Mass Flow Controller for Medical & Life Sciences

Consumption Value by Country (2021-2026) & (USD Million)

Table 153. Middle East & Africa Mass Flow Controller for Medical & Life Sciences

Consumption Value by Country (2027-2032) & (USD Million)

Table 154. Mass Flow Controller for Medical & Life Sciences Raw Material

Table 155. Key Manufacturers of Mass Flow Controller for Medical & Life Sciences Raw Materials

Table 156. Mass Flow Controller for Medical & Life Sciences Typical Distributors

Table 157. Mass Flow Controller for Medical & Life Sciences Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Mass Flow Controller for Medical & Life Sciences Picture
- Figure 2. Global Mass Flow Controller for Medical & Life Sciences Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Mass Flow Controller for Medical & Life Sciences Revenue Market Share by Type in 2025
- Figure 4. Gas Mass Flow Controller Examples
- Figure 5. Liquid Flow Controller Examples
- Figure 6. Other Examples
- Figure 7. Global Mass Flow Controller for Medical & Life Sciences Revenue by Technology, (USD Million), 2021 & 2025 & 2032
- Figure 8. Global Mass Flow Controller for Medical & Life Sciences Revenue Market Share by Technology in 2025
- Figure 9. MEMS Thermal MFC Examples
- Figure 10. Capillary Thermal MFC Examples
- Figure 11. Coriolis MFC Examples
- Figure 12. Differential Pressure MFC Examples
- Figure 13. Piezo-valve Integrated MFC Examples
- Figure 14. Global Mass Flow Controller for Medical & Life Sciences Revenue by Controlled Medium, (USD Million), 2021 & 2025 & 2032
- Figure 15. Global Mass Flow Controller for Medical & Life Sciences Revenue Market Share by Controlled Medium in 2025
- Figure 16. Oxygen / Air Control Examples
- Figure 17. Carbon Dioxide Control Examples
- Figure 18. Nitrogen / Inert Gas Control Examples
- Figure 19. Mixed Gas Control Examples
- Figure 20. Liquid / Reagent Control Examples
- Figure 21. Global Mass Flow Controller for Medical & Life Sciences Revenue by Product Grade, (USD Million), 2021 & 2025 & 2032
- Figure 22. Global Mass Flow Controller for Medical & Life Sciences Revenue Market Share by Product Grade in 2025
- Figure 23. Medical OEM Grade Examples
- Figure 24. Biopharma Grade Examples
- Figure 25. Laboratory Grade Examples
- Figure 26. Industrial Life-science Grade Examples
- Figure 27. Global Mass Flow Controller for Medical & Life Sciences Consumption Value

by Application, (USD Million), 2021 & 2025 & 2032

Figure 28. Global Mass Flow Controller for Medical & Life Sciences Revenue Market Share by Application in 2025

Figure 29. Respiratory and Anesthesia Gas Control Examples

Figure 30. Bioreactor and Fermentation Control Examples

Figure 31. Biopharmaceutical Manufacturing Examples

Figure 32. Diagnostic and Analytical Instruments Examples

Figure 33. Laboratory and Research Equipment Examples

Figure 34. Other Medical OEM Equipment Examples

Figure 35. Global Mass Flow Controller for Medical & Life Sciences Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 36. Global Mass Flow Controller for Medical & Life Sciences Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 37. Global Mass Flow Controller for Medical & Life Sciences Sales Quantity (2021-2032) & (Units)

Figure 38. Global Mass Flow Controller for Medical & Life Sciences Price (2021-2032) & (US\$/Unit)

Figure 39. Global Mass Flow Controller for Medical & Life Sciences Sales Quantity Market Share by Manufacturer in 2025

Figure 40. Global Mass Flow Controller for Medical & Life Sciences Revenue Market Share by Manufacturer in 2025

Figure 41. Producer Shipments of Mass Flow Controller for Medical & Life Sciences by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 42. Top 3 Mass Flow Controller for Medical & Life Sciences Manufacturer (Revenue) Market Share in 2025

Figure 43. Top 6 Mass Flow Controller for Medical & Life Sciences Manufacturer (Revenue) Market Share in 2025

Figure 44. Global Mass Flow Controller for Medical & Life Sciences Sales Quantity Market Share by Region (2021-2032)

Figure 45. Global Mass Flow Controller for Medical & Life Sciences Consumption Value Market Share by Region (2021-2032)

Figure 46. North America Mass Flow Controller for Medical & Life Sciences Consumption Value (2021-2032) & (USD Million)

Figure 47. Europe Mass Flow Controller for Medical & Life Sciences Consumption Value (2021-2032) & (USD Million)

Figure 48. Asia-Pacific Mass Flow Controller for Medical & Life Sciences Consumption Value (2021-2032) & (USD Million)

Figure 49. South America Mass Flow Controller for Medical & Life Sciences Consumption Value (2021-2032) & (USD Million)

Figure 50. Middle East & Africa Mass Flow Controller for Medical & Life Sciences Consumption Value (2021-2032) & (USD Million)

Figure 51. Global Mass Flow Controller for Medical & Life Sciences Sales Quantity Market Share by Type (2021-2032)

Figure 52. Global Mass Flow Controller for Medical & Life Sciences Consumption Value Market Share by Type (2021-2032)

Figure 53. Global Mass Flow Controller for Medical & Life Sciences Average Price by Type (2021-2032) & (US\$/Unit)

Figure 54. Global Mass Flow Controller for Medical & Life Sciences Sales Quantity Market Share by Application (2021-2032)

Figure 55. Global Mass Flow Controller for Medical & Life Sciences Revenue Market Share by Application (2021-2032)

Figure 56. Global Mass Flow Controller for Medical & Life Sciences Average Price by Application (2021-2032) & (US\$/Unit)

Figure 57. North America Mass Flow Controller for Medical & Life Sciences Sales Quantity Market Share by Type (2021-2032)

Figure 58. North America Mass Flow Controller for Medical & Life Sciences Sales Quantity Market Share by Application (2021-2032)

Figure 59. North America Mass Flow Controller for Medical & Life Sciences Sales Quantity Market Share by Country (2021-2032)

Figure 60. North America Mass Flow Controller for Medical & Life Sciences Consumption Value Market Share by Country (2021-2032)

Figure 61. United States Mass Flow Controller for Medical & Life Sciences Consumption Value (2021-2032) & (USD Million)

Figure 62. Canada Mass Flow Controller for Medical & Life Sciences Consumption Value (2021-2032) & (USD Million)

Figure 63. Mexico Mass Flow Controller for Medical & Life Sciences Consumption Value (2021-2032) & (USD Million)

Figure 64. Europe Mass Flow Controller for Medical & Life Sciences Sales Quantity Market Share by Type (2021-2032)

Figure 65. Europe Mass Flow Controller for Medical & Life Sciences Sales Quantity Market Share by Application (2021-2032)

Figure 66. Europe Mass Flow Controller for Medical & Life Sciences Sales Quantity Market Share by Country (2021-2032)

Figure 67. Europe Mass Flow Controller for Medical & Life Sciences Consumption Value Market Share by Country (2021-2032)

Figure 68. Germany Mass Flow Controller for Medical & Life Sciences Consumption Value (2021-2032) & (USD Million)

Figure 69. France Mass Flow Controller for Medical & Life Sciences Consumption Value

(2021-2032) & (USD Million)

Figure 70. United Kingdom Mass Flow Controller for Medical & Life Sciences

Consumption Value (2021-2032) & (USD Million)

Figure 71. Russia Mass Flow Controller for Medical & Life Sciences Consumption Value

(2021-2032) & (USD Million)

Figure 72. Italy Mass Flow Controller for Medical & Life Sciences Consumption Value

(2021-2032) & (USD Million)

Figure 73. Asia-Pacific Mass Flow Controller for Medical & Life Sciences Sales Quantity

Market Share by Type (2021-2032)

Figure 74. Asia-Pacific Mass Flow Controller for Medical & Life Sciences Sales Quantity

Market Share by Application (2021-2032)

Figure 75. Asia-Pacific Mass Flow Controller for Medical & Life Sciences Sales Quantity

Market Share by Region (2021-2032)

Figure 76. Asia-Pacific Mass Flow Controller for Medical & Life Sciences Consumption

Value Market Share by Region (2021-2032)

Figure 77. China Mass Flow Controller for Medical & Life Sciences Consumption Value

(2021-2032) & (USD Million)

Figure 78. Japan Mass Flow Controller for Medical & Life Sciences Consumption Value

(2021-2032) & (USD Million)

Figure 79. South Korea Mass Flow Controller for Medical & Life Sciences Consumption

Value (2021-2032) & (USD Million)

Figure 80. India Mass Flow Controller for Medical & Life Sciences Consumption Value

(2021-2032) & (USD Million)

Figure 81. Southeast Asia Mass Flow Controller for Medical & Life Sciences

Consumption Value (2021-2032) & (USD Million)

Figure 82. Australia Mass Flow Controller for Medical & Life Sciences Consumption

Value (2021-2032) & (USD Million)

Figure 83. South America Mass Flow Controller for Medical & Life Sciences Sales

Quantity Market Share by Type (2021-2032)

Figure 84. South America Mass Flow Controller for Medical & Life Sciences Sales

Quantity Market Share by Application (2021-2032)

Figure 85. South America Mass Flow Controller for Medical & Life Sciences Sales

Quantity Market Share by Country (2021-2032)

Figure 86. South America Mass Flow Controller for Medical & Life Sciences

Consumption Value Market Share by Country (2021-2032)

Figure 87. Brazil Mass Flow Controller for Medical & Life Sciences Consumption Value

(2021-2032) & (USD Million)

Figure 88. Argentina Mass Flow Controller for Medical & Life Sciences Consumption

Value (2021-2032) & (USD Million)

Figure 89. Middle East & Africa Mass Flow Controller for Medical & Life Sciences Sales Quantity Market Share by Type (2021-2032)

Figure 90. Middle East & Africa Mass Flow Controller for Medical & Life Sciences Sales Quantity Market Share by Application (2021-2032)

Figure 91. Middle East & Africa Mass Flow Controller for Medical & Life Sciences Sales Quantity Market Share by Country (2021-2032)

Figure 92. Middle East & Africa Mass Flow Controller for Medical & Life Sciences Consumption Value Market Share by Country (2021-2032)

Figure 93. Turkey Mass Flow Controller for Medical & Life Sciences Consumption Value (2021-2032) & (USD Million)

Figure 94. Egypt Mass Flow Controller for Medical & Life Sciences Consumption Value (2021-2032) & (USD Million)

Figure 95. Saudi Arabia Mass Flow Controller for Medical & Life Sciences Consumption Value (2021-2032) & (USD Million)

Figure 96. South Africa Mass Flow Controller for Medical & Life Sciences Consumption Value (2021-2032) & (USD Million)

Figure 97. Mass Flow Controller for Medical & Life Sciences Market Drivers

Figure 98. Mass Flow Controller for Medical & Life Sciences Market Restraints

Figure 99. Mass Flow Controller for Medical & Life Sciences Market Trends

Figure 100. Porters Five Forces Analysis

Figure 101. Manufacturing Cost Structure Analysis of Mass Flow Controller for Medical & Life Sciences in 2025

Figure 102. Manufacturing Process Analysis of Mass Flow Controller for Medical & Life Sciences

Figure 103. Mass Flow Controller for Medical & Life Sciences Industrial Chain

Figure 104. Sales Channel: Direct to End-User vs Distributors

Figure 105. Direct Channel Pros & Cons

Figure 106. Indirect Channel Pros & Cons

Figure 107. Methodology

Figure 108. Research Process and Data Source

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