

Global Mass Flow Controllers for Gases Market Research Report 2026(Status and Outlook)

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Abstracts

A Mass Flow Controller (MFC) for gases is a precision instrument used to regulate the flow of gases in a system by controlling the mass flow rate, rather than the volumetric flow rate. It is widely used in industries such as semiconductor manufacturing, laboratory experiments, process control, and HVAC systems where exact control over gas flows is crucial. The growth of the global Mass Flow Controllers for Gases market is driven by demand from industries such as semiconductors and medical. With the rapid development of Industry 4.0 and smart manufacturing, the market is developing towards higher precision, smarter and more integrated products. Market driving force: The continuous advancement of sensors and control technology has significantly improved the performance of mass flow controllers, with higher accuracy and stability, meeting the demand for high-precision flow control in more fields. The rapid development of semiconductor, medical, environmental protection and other industries has placed increasing demands on mass flow controllers. Especially in the semiconductor manufacturing process, the market plays an important role in key steps such as wafer cleaning, layer deposition, and thin film deposition. Market challenges and obstacles: The manufacturing of Mass Flow Controllers for Gases involves many fields such as high-precision machining, sensor technology and control algorithms, and the technical threshold is high. At the same time, the stability and reliability of Mass Flow Controllers for Gases in complex environments is also a big challenge. The manufacturing cost of mass flow controllers is relatively high, especially under the requirements of high precision and high stability. The manufacturing costs and selling prices are relatively high, which limits the application of mass flow controllers in certain fields. Regional Characteristics: Asia Pacific is one of the major growth regions of the global market. The rapid development of countries such as China, Japan, and South Korea in the fields of semiconductor manufacturing, chemical engineering, and biomedicine has promoted the rapid development of the market. The market in North America is also showing a

trend of rapid development. The United States has relatively mature development in semiconductor manufacturing, aerospace, medical and other fields and has greater demand. The European regional market also has a certain scale and influence. The semiconductor manufacturing and chemical engineering industries in countries such as Germany and France are developing rapidly.

The global Mass Flow Controllers for Gases market size was estimated at USD 1275.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 4.60% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Mass Flow Controllers for Gases market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Mass Flow Controllers for Gases market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Mass Flow Controllers for Gases market.

Global Mass Flow Controllers for Gases Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

HORIBA
Bronkhorst
MKS instruments
Brooks
B?rkert
TOKYO KEISO CO.,LTD
Sensirion
AZBIL
Sierra Instruments
Omega
Parker Hannifin
Kofloc
Alicat
LINTEC

Market Segmentation (by Type)

Digital
Analog

Market Segmentation (by Application)

Semiconductor Manufacturing
Fuel Cell
Analytical Instrument
Others

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Mass Flow Controllers for Gases Market
Overview of the regional outlook of the Mass Flow Controllers for Gases Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Mass Flow Controllers for Gases Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Mass Flow Controllers for Gases, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change
This enables you to anticipate market changes to remain ahead of your competitors
You will be able to copy data from the Excel spreadsheet straight into your marketing

plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of Mass Flow Controllers for Gases

1.2 Key Market Segments

1.2.1 Mass Flow Controllers for Gases Segment by Type

1.2.2 Mass Flow Controllers for Gases Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 MASS FLOW CONTROLLERS FOR GASES MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global Mass Flow Controllers for Gases Market Size (M USD) Estimates and Forecasts (2020-2035)

2.1.2 Global Mass Flow Controllers for Gases Sales Estimates and Forecasts (2020-2035)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 MASS FLOW CONTROLLERS FOR GASES MARKET COMPETITIVE LANDSCAPE

3.1 Company Assessment Quadrant

3.2 Global Mass Flow Controllers for Gases Product Life Cycle

3.3 Global Mass Flow Controllers for Gases Sales by Manufacturers (2020-2025)

3.4 Global Mass Flow Controllers for Gases Revenue Market Share by Manufacturers (2020-2025)

3.5 Mass Flow Controllers for Gases Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.6 Global Mass Flow Controllers for Gases Average Price by Manufacturers (2020-2025)

3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

3.8 Mass Flow Controllers for Gases Market Competitive Situation and Trends

- 3.8.1 Mass Flow Controllers for Gases Market Concentration Rate
- 3.8.2 Global 5 and 10 Largest Mass Flow Controllers for Gases Players Market Share by Revenue
- 3.8.3 Mergers & Acquisitions, Expansion

4 MASS FLOW CONTROLLERS FOR GASES INDUSTRY CHAIN ANALYSIS

- 4.1 Mass Flow Controllers for Gases Industry Chain Analysis
- 4.2 Market Overview of Key Raw Materials
- 4.3 Midstream Market Analysis
- 4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF MASS FLOW CONTROLLERS FOR GASES MARKET

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Industry News
 - 5.4.1 New Product Developments
 - 5.4.2 Mergers & Acquisitions
 - 5.4.3 Expansions
 - 5.4.4 Collaboration/Supply Contracts
- 5.5 PEST Analysis
 - 5.5.1 Industry Policies Analysis
 - 5.5.2 Economic Environment Analysis
 - 5.5.3 Social Environment Analysis
 - 5.5.4 Technological Environment Analysis
- 5.6 Global Mass Flow Controllers for Gases Market Porter's Five Forces Analysis
 - 5.6.1 Global Trade Frictions
 - 5.6.2 U.S. Tariff Policy ? April 2025
 - 5.6.3 Global Trade Frictions and Their Impacts to Mass Flow Controllers for Gases Market
- 5.7 ESG Ratings of Leading Companies

6 MASS FLOW CONTROLLERS FOR GASES MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global Mass Flow Controllers for Gases Sales Market Share by Type (2020-2025)

6.3 Global Mass Flow Controllers for Gases Market Size by Type (2020-2025)

6.4 Global Mass Flow Controllers for Gases Price by Type (2020-2025)

7 MASS FLOW CONTROLLERS FOR GASES MARKET SEGMENTATION BY APPLICATION

7.1 Evaluation Matrix of Segment Market Development Potential (Application)

7.2 Global Mass Flow Controllers for Gases Market Sales by Application (2020-2025)

7.3 Global Mass Flow Controllers for Gases Market Size (M USD) by Application (2020-2025)

7.4 Global Mass Flow Controllers for Gases Sales Growth Rate by Application (2020-2025)

8 MASS FLOW CONTROLLERS FOR GASES MARKET SALES BY REGION

8.1 Global Mass Flow Controllers for Gases Sales by Region

8.1.1 Global Mass Flow Controllers for Gases Sales by Region

8.1.2 Global Mass Flow Controllers for Gases Sales Market Share by Region

8.2 Global Mass Flow Controllers for Gases Market Size by Region

8.2.1 Global Mass Flow Controllers for Gases Market Size by Region

8.2.2 Global Mass Flow Controllers for Gases Market Size by Region

8.3 North America

8.3.1 North America Mass Flow Controllers for Gases Sales by Country

8.3.2 North America Mass Flow Controllers for Gases Market Size by Country

8.3.3 U.S. Market Overview

8.3.4 Canada Market Overview

8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe Mass Flow Controllers for Gases Sales by Country

8.4.2 Europe Mass Flow Controllers for Gases Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

8.5.1 Asia Pacific Mass Flow Controllers for Gases Sales by Region

8.5.2 Asia Pacific Mass Flow Controllers for Gases Market Size by Region

8.5.3 China Market Overview

- 8.5.4 Japan Market Overview
- 8.5.5 South Korea Market Overview
- 8.5.6 India Market Overview
- 8.5.7 Southeast Asia Market Overview
- 8.6 South America
 - 8.6.1 South America Mass Flow Controllers for Gases Sales by Country
 - 8.6.2 South America Mass Flow Controllers for Gases Market Size by Country
 - 8.6.3 Brazil Market Overview
 - 8.6.4 Argentina Market Overview
 - 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
 - 8.7.1 Middle East and Africa Mass Flow Controllers for Gases Sales by Region
 - 8.7.2 Middle East and Africa Mass Flow Controllers for Gases Market Size by Region
 - 8.7.3 Saudi Arabia Market Overview
 - 8.7.4 UAE Market Overview
 - 8.7.5 Egypt Market Overview
 - 8.7.6 Nigeria Market Overview
 - 8.7.7 South Africa Market Overview

9 MASS FLOW CONTROLLERS FOR GASES MARKET PRODUCTION BY REGION

- 9.1 Global Production of Mass Flow Controllers for Gases by Region(2020-2025)
- 9.2 Global Mass Flow Controllers for Gases Revenue Market Share by Region (2020-2025)
- 9.3 Global Mass Flow Controllers for Gases Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Mass Flow Controllers for Gases Production
 - 9.4.1 North America Mass Flow Controllers for Gases Production Growth Rate (2020-2025)
 - 9.4.2 North America Mass Flow Controllers for Gases Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Mass Flow Controllers for Gases Production
 - 9.5.1 Europe Mass Flow Controllers for Gases Production Growth Rate (2020-2025)
 - 9.5.2 Europe Mass Flow Controllers for Gases Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Mass Flow Controllers for Gases Production (2020-2025)
 - 9.6.1 Japan Mass Flow Controllers for Gases Production Growth Rate (2020-2025)
 - 9.6.2 Japan Mass Flow Controllers for Gases Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China Mass Flow Controllers for Gases Production (2020-2025)

9.7.1 China Mass Flow Controllers for Gases Production Growth Rate (2020-2025)

9.7.2 China Mass Flow Controllers for Gases Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 HORIBA

10.1.1 HORIBA Basic Information

10.1.2 HORIBA Mass Flow Controllers for Gases Product Overview

10.1.3 HORIBA Mass Flow Controllers for Gases Product Market Performance

10.1.4 HORIBA Business Overview

10.1.5 HORIBA SWOT Analysis

10.1.6 HORIBA Recent Developments

10.2 Bronkhorst

10.2.1 Bronkhorst Basic Information

10.2.2 Bronkhorst Mass Flow Controllers for Gases Product Overview

10.2.3 Bronkhorst Mass Flow Controllers for Gases Product Market Performance

10.2.4 Bronkhorst Business Overview

10.2.5 Bronkhorst SWOT Analysis

10.2.6 Bronkhorst Recent Developments

10.3 MKS instruments

10.3.1 MKS instruments Basic Information

10.3.2 MKS instruments Mass Flow Controllers for Gases Product Overview

10.3.3 MKS instruments Mass Flow Controllers for Gases Product Market

Performance

10.3.4 MKS instruments Business Overview

10.3.5 MKS instruments SWOT Analysis

10.3.6 MKS instruments Recent Developments

10.4 Brooks

10.4.1 Brooks Basic Information

10.4.2 Brooks Mass Flow Controllers for Gases Product Overview

10.4.3 Brooks Mass Flow Controllers for Gases Product Market Performance

10.4.4 Brooks Business Overview

10.4.5 Brooks Recent Developments

10.5 B?rkert

10.5.1 B?rkert Basic Information

10.5.2 B?rkert Mass Flow Controllers for Gases Product Overview

10.5.3 B?rkert Mass Flow Controllers for Gases Product Market Performance

- 10.5.4 B?rkert Business Overview
- 10.5.5 B?rkert Recent Developments
- 10.6 TOKYO KEISO CO.,LTD
 - 10.6.1 TOKYO KEISO CO.,LTD Basic Information
 - 10.6.2 TOKYO KEISO CO.,LTD Mass Flow Controllers for Gases Product Overview
 - 10.6.3 TOKYO KEISO CO.,LTD Mass Flow Controllers for Gases Product Market Performance
 - 10.6.4 TOKYO KEISO CO.,LTD Business Overview
 - 10.6.5 TOKYO KEISO CO.,LTD Recent Developments
- 10.7 Sensirion
 - 10.7.1 Sensirion Basic Information
 - 10.7.2 Sensirion Mass Flow Controllers for Gases Product Overview
 - 10.7.3 Sensirion Mass Flow Controllers for Gases Product Market Performance
 - 10.7.4 Sensirion Business Overview
 - 10.7.5 Sensirion Recent Developments
- 10.8 AZBIL
 - 10.8.1 AZBIL Basic Information
 - 10.8.2 AZBIL Mass Flow Controllers for Gases Product Overview
 - 10.8.3 AZBIL Mass Flow Controllers for Gases Product Market Performance
 - 10.8.4 AZBIL Business Overview
 - 10.8.5 AZBIL Recent Developments
- 10.9 Sierra Instruments
 - 10.9.1 Sierra Instruments Basic Information
 - 10.9.2 Sierra Instruments Mass Flow Controllers for Gases Product Overview
 - 10.9.3 Sierra Instruments Mass Flow Controllers for Gases Product Market Performance
 - 10.9.4 Sierra Instruments Business Overview
 - 10.9.5 Sierra Instruments Recent Developments
- 10.10 Omega
 - 10.10.1 Omega Basic Information
 - 10.10.2 Omega Mass Flow Controllers for Gases Product Overview
 - 10.10.3 Omega Mass Flow Controllers for Gases Product Market Performance
 - 10.10.4 Omega Business Overview
 - 10.10.5 Omega Recent Developments
- 10.11 Parker Hannifin
 - 10.11.1 Parker Hannifin Basic Information
 - 10.11.2 Parker Hannifin Mass Flow Controllers for Gases Product Overview
 - 10.11.3 Parker Hannifin Mass Flow Controllers for Gases Product Market Performance
 - 10.11.4 Parker Hannifin Business Overview

10.11.5 Parker Hannifin Recent Developments

10.12 Kofloc

10.12.1 Kofloc Basic Information

10.12.2 Kofloc Mass Flow Controllers for Gases Product Overview

10.12.3 Kofloc Mass Flow Controllers for Gases Product Market Performance

10.12.4 Kofloc Business Overview

10.12.5 Kofloc Recent Developments

10.13 Alicat

10.13.1 Alicat Basic Information

10.13.2 Alicat Mass Flow Controllers for Gases Product Overview

10.13.3 Alicat Mass Flow Controllers for Gases Product Market Performance

10.13.4 Alicat Business Overview

10.13.5 Alicat Recent Developments

10.14 LINTEC

10.14.1 LINTEC Basic Information

10.14.2 LINTEC Mass Flow Controllers for Gases Product Overview

10.14.3 LINTEC Mass Flow Controllers for Gases Product Market Performance

10.14.4 LINTEC Business Overview

10.14.5 LINTEC Recent Developments

11 MASS FLOW CONTROLLERS FOR GASES MARKET FORECAST BY REGION

11.1 Global Mass Flow Controllers for Gases Market Size Forecast

11.2 Global Mass Flow Controllers for Gases Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe Mass Flow Controllers for Gases Market Size Forecast by Country

11.2.3 Asia Pacific Mass Flow Controllers for Gases Market Size Forecast by Region

11.2.4 South America Mass Flow Controllers for Gases Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of Mass Flow Controllers for Gases by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

12.1 Global Mass Flow Controllers for Gases Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of Mass Flow Controllers for Gases by Type (2026-2035)

12.1.2 Global Mass Flow Controllers for Gases Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of Mass Flow Controllers for Gases by Type
(2026-2035)

12.2 Global Mass Flow Controllers for Gases Market Forecast by Application
(2026-2035)

12.2.1 Global Mass Flow Controllers for Gases Sales (K Units) Forecast by Application

12.2.2 Global Mass Flow Controllers for Gases Market Size (M USD) Forecast by
Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global Mass Flow Controllers for Gases Market Size by Type (M USD)

Table 4. Global Mass Flow Controllers for Gases Market Size by Application

Table 5. Mass Flow Controllers for Gases Market Size Comparison by Region (M USD)

Table 6. Global Mass Flow Controllers for Gases Sales (K Units) by Manufacturers
(2020-2025)

Table 7. Global Mass Flow Controllers for Gases Sales Market Share by Manufacturers
(2020-2025)

Table 8. Global Mass Flow Controllers for Gases Revenue (M USD) by Manufacturers
(2020-2025)

Table 9. Global Mass Flow Controllers for Gases Revenue Share by Manufacturers
(2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Mass
Flow Controllers for Gases as of 2025)

Table 11. Global Market Mass Flow Controllers for Gases Average Price (USD/Unit) of
Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global Mass Flow Controllers for Gases Manufacturers Market Concentration
Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Mass Flow Controllers for Gases Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading
Countries

Table 26. Global Mass Flow Controllers for Gases Sales by Type (K Units)

Table 27. Global Mass Flow Controllers for Gases Market Size by Type (M USD)

Table 28. Global Mass Flow Controllers for Gases Sales (K Units) by Type (2020-2025)

Table 29. Global Mass Flow Controllers for Gases Sales Market Share by Type (2020-2025)

Table 30. Global Mass Flow Controllers for Gases Market Size (M USD) by Type (2020-2025)

Table 31. Global Mass Flow Controllers for Gases Market Share by Type (2020-2025)

Table 32. Global Mass Flow Controllers for Gases Price (USD/Unit) by Type (2020-2025)

Table 33. Global Mass Flow Controllers for Gases Sales (K Units) by Application

Table 34. Global Mass Flow Controllers for Gases Market Size by Application

Table 35. Global Mass Flow Controllers for Gases Sales by Application (2020-2025) & (K Units)

Table 36. Global Mass Flow Controllers for Gases Sales Market Share by Application (2020-2025)

Table 37. Global Mass Flow Controllers for Gases Market Size by Application (2020-2025) & (M USD)

Table 38. Global Mass Flow Controllers for Gases Market Share by Application (2020-2025)

Table 39. Global Mass Flow Controllers for Gases Sales Growth Rate by Application (2020-2025)

Table 40. Global Mass Flow Controllers for Gases Sales by Region (2020-2025) & (K Units)

Table 41. Global Mass Flow Controllers for Gases Sales Market Share by Region (2020-2025)

Table 42. Global Mass Flow Controllers for Gases Market Size by Region (2020-2025) & (M USD)

Table 43. Global Mass Flow Controllers for Gases Market Size by Region (2020-2025)

Table 44. North America Mass Flow Controllers for Gases Sales by Country (2020-2025) & (K Units)

Table 45. North America Mass Flow Controllers for Gases Market Size by Country (2020-2025) & (M USD)

Table 46. Europe Mass Flow Controllers for Gases Sales by Country (2020-2025) & (K Units)

Table 47. Europe Mass Flow Controllers for Gases Market Size by Country (2020-2025) & (M USD)

Table 48. Asia Pacific Mass Flow Controllers for Gases Sales by Region (2020-2025) & (K Units)

Table 49. Asia Pacific Mass Flow Controllers for Gases Market Size by Region (2020-2025) & (M USD)

Table 50. South America Mass Flow Controllers for Gases Sales by Country (2020-2025) & (K Units)
Table 51. South America Mass Flow Controllers for Gases Market Size by Country (2020-2025) & (M USD)
Table 52. Middle East and Africa Mass Flow Controllers for Gases Sales by Region (2020-2025) & (K Units)
Table 53. Middle East and Africa Mass Flow Controllers for Gases Market Size by Region (2020-2025) & (M USD)
Table 54. Global Mass Flow Controllers for Gases Production (K Units) by Region(2020-2025)
Table 55. Global Mass Flow Controllers for Gases Revenue (US\$ Million) by Region (2020-2025)
Table 56. Global Mass Flow Controllers for Gases Revenue Market Share by Region (2020-2025)
Table 57. Global Mass Flow Controllers for Gases Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 58. North America Mass Flow Controllers for Gases Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 59. Europe Mass Flow Controllers for Gases Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 60. Japan Mass Flow Controllers for Gases Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 61. China Mass Flow Controllers for Gases Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 62. HORIBA Basic Information
Table 63. HORIBA Mass Flow Controllers for Gases Product Overview
Table 64. HORIBA Mass Flow Controllers for Gases Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 65. HORIBA Business Overview
Table 66. HORIBA SWOT Analysis
Table 67. HORIBA Recent Developments
Table 68. Bronkhorst Basic Information
Table 69. Bronkhorst Mass Flow Controllers for Gases Product Overview
Table 70. Bronkhorst Mass Flow Controllers for Gases Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 71. Bronkhorst Business Overview
Table 72. Bronkhorst SWOT Analysis
Table 73. Bronkhorst Recent Developments
Table 74. MKS instruments Basic Information

Table 75. MKS instruments Mass Flow Controllers for Gases Product Overview

Table 76. MKS instruments Mass Flow Controllers for Gases Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 77. MKS instruments Business Overview

Table 78. MKS instruments SWOT Analysis

Table 79. MKS instruments Recent Developments

Table 80. Brooks Basic Information

Table 81. Brooks Mass Flow Controllers for Gases Product Overview

Table 82. Brooks Mass Flow Controllers for Gases Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 83. Brooks Business Overview

Table 84. Brooks Recent Developments

Table 85. B?rkert Basic Information

Table 86. B?rkert Mass Flow Controllers for Gases Product Overview

Table 87. B?rkert Mass Flow Controllers for Gases Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 88. B?rkert Business Overview

Table 89. B?rkert Recent Developments

Table 90. TOKYO KEISO CO.,LTD Basic Information

Table 91. TOKYO KEISO CO.,LTD Mass Flow Controllers for Gases Product Overview

Table 92. TOKYO KEISO CO.,LTD Mass Flow Controllers for Gases Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 93. TOKYO KEISO CO.,LTD Business Overview

Table 94. TOKYO KEISO CO.,LTD Recent Developments

Table 95. Sensirion Basic Information

Table 96. Sensirion Mass Flow Controllers for Gases Product Overview

Table 97. Sensirion Mass Flow Controllers for Gases Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 98. Sensirion Business Overview

Table 99. Sensirion Recent Developments

Table 100. AZBIL Basic Information

Table 101. AZBIL Mass Flow Controllers for Gases Product Overview

Table 102. AZBIL Mass Flow Controllers for Gases Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 103. AZBIL Business Overview

Table 104. AZBIL Recent Developments

Table 105. Sierra Instruments Basic Information

Table 106. Sierra Instruments Mass Flow Controllers for Gases Product Overview

Table 107. Sierra Instruments Mass Flow Controllers for Gases Sales (K Units),

Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 108. Sierra Instruments Business Overview

Table 109. Sierra Instruments Recent Developments

Table 110. Omega Basic Information

Table 111. Omega Mass Flow Controllers for Gases Product Overview

Table 112. Omega Mass Flow Controllers for Gases Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 113. Omega Business Overview

Table 114. Omega Recent Developments

Table 115. Parker Hannifin Basic Information

Table 116. Parker Hannifin Mass Flow Controllers for Gases Product Overview

Table 117. Parker Hannifin Mass Flow Controllers for Gases Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 118. Parker Hannifin Business Overview

Table 119. Parker Hannifin Recent Developments

Table 120. Kofloc Basic Information

Table 121. Kofloc Mass Flow Controllers for Gases Product Overview

Table 122. Kofloc Mass Flow Controllers for Gases Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 123. Kofloc Business Overview

Table 124. Kofloc Recent Developments

Table 125. Alicat Basic Information

Table 126. Alicat Mass Flow Controllers for Gases Product Overview

Table 127. Alicat Mass Flow Controllers for Gases Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 128. Alicat Business Overview

Table 129. Alicat Recent Developments

Table 130. LINTEC Basic Information

Table 131. LINTEC Mass Flow Controllers for Gases Product Overview

Table 132. LINTEC Mass Flow Controllers for Gases Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 133. LINTEC Business Overview

Table 134. LINTEC Recent Developments

Table 135. Global Mass Flow Controllers for Gases Sales Forecast by Region (2026-2035) & (K Units)

Table 136. Global Mass Flow Controllers for Gases Market Size Forecast by Region (2026-2035) & (M USD)

Table 137. North America Mass Flow Controllers for Gases Sales Forecast by Country (2026-2035) & (K Units)

Table 138. North America Mass Flow Controllers for Gases Market Size Forecast by Country (2026-2035) & (M USD)

Table 139. Europe Mass Flow Controllers for Gases Sales Forecast by Country (2026-2035) & (K Units)

Table 140. Europe Mass Flow Controllers for Gases Market Size Forecast by Country (2026-2035) & (M USD)

Table 141. Asia Pacific Mass Flow Controllers for Gases Sales Forecast by Region (2026-2035) & (K Units)

Table 142. Asia Pacific Mass Flow Controllers for Gases Market Size Forecast by Region (2026-2035) & (M USD)

Table 143. South America Mass Flow Controllers for Gases Sales Forecast by Country (2026-2035) & (K Units)

Table 144. South America Mass Flow Controllers for Gases Market Size Forecast by Country (2026-2035) & (M USD)

Table 145. Middle East and Africa Mass Flow Controllers for Gases Sales Forecast by Country (2026-2035) & (Units)

Table 146. Middle East and Africa Mass Flow Controllers for Gases Market Size Forecast by Country (2026-2035) & (M USD)

Table 147. Global Mass Flow Controllers for Gases Sales Forecast by Type (2026-2035) & (K Units)

Table 148. Global Mass Flow Controllers for Gases Market Size Forecast by Type (2026-2035) & (M USD)

Table 149. Global Mass Flow Controllers for Gases Price Forecast by Type (2026-2035) & (USD/Unit)

Table 150. Global Mass Flow Controllers for Gases Sales (K Units) Forecast by Application (2026-2035)

Table 151. Global Mass Flow Controllers for Gases Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

Figure 1. Product Picture of Mass Flow Controllers for Gases

Figure 2. Data Triangulation

Figure 3. Key Caveats

Figure 4. Global Mass Flow Controllers for Gases Market Size (M USD), 2025-2035

Figure 5. Global Mass Flow Controllers for Gases Market Size (M USD) (2020-2035)

Figure 6. Global Mass Flow Controllers for Gases Sales (K Units) & (2020-2035)

Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)

Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 9. Evaluation Matrix of Regional Market Development Potential

Figure 10. Mass Flow Controllers for Gases Market Size by Country (M USD)

Figure 11. Company Assessment Quadrant

Figure 12. Global Mass Flow Controllers for Gases Product Life Cycle

Figure 13. Mass Flow Controllers for Gases Sales Share by Manufacturers in 2025

Figure 14. Global Mass Flow Controllers for Gases Revenue Share by Manufacturers in 2025

Figure 15. Mass Flow Controllers for Gases Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025

Figure 16. Global Market Mass Flow Controllers for Gases Average Price (USD/Unit) of Key Manufacturers in 2025

Figure 17. The Global 5 and 10 Largest Players: Market Share by Mass Flow Controllers for Gases Revenue in 2025

Figure 18. Industry Chain Map of Mass Flow Controllers for Gases

Figure 19. Global Mass Flow Controllers for Gases Market PEST Analysis

Figure 20. Global Mass Flow Controllers for Gases Market Porter's Five Forces Analysis

Figure 21. Global Merchandise Trade as a Percentage Of GDP

Figure 22. US - Imports of Goods by Country

Figure 23. China Exports by Country

Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers

Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)

Figure 26. Global Mass Flow Controllers for Gases Market Share by Type

Figure 27. Sales Market Share of Mass Flow Controllers for Gases by Type (2020-2025)

Figure 28. Sales Market Share of Mass Flow Controllers for Gases by Type in 2025

Figure 29. Market Share of Mass Flow Controllers for Gases by Type (2020-2025)

- Figure 30. Market Share of Mass Flow Controllers for Gases by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global Mass Flow Controllers for Gases Market Share by Application
- Figure 33. Global Mass Flow Controllers for Gases Sales Market Share by Application (2020-2025)
- Figure 34. Global Mass Flow Controllers for Gases Sales Market Share by Application in 2025
- Figure 35. Global Mass Flow Controllers for Gases Market Share by Application (2020-2025)
- Figure 36. Global Mass Flow Controllers for Gases Market Share by Application in 2025
- Figure 37. Global Mass Flow Controllers for Gases Sales Growth Rate by Application (2020-2025)
- Figure 38. Global Mass Flow Controllers for Gases Sales Market Share by Region (2020-2025)
- Figure 39. Global Mass Flow Controllers for Gases Market Size by Region (2020-2025)
- Figure 40. North America Mass Flow Controllers for Gases Sales and Growth Rate (2020-2025) & (K Units)
- Figure 41. North America Mass Flow Controllers for Gases Sales and Growth Rate (2020-2025) & (K Units)
- Figure 42. North America Mass Flow Controllers for Gases Sales Market Share by Country in 2024
- Figure 43. North America Mass Flow Controllers for Gases Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 44. North America Mass Flow Controllers for Gases Market Size by Country in 2024
- Figure 45. U.S. Mass Flow Controllers for Gases Sales and Growth Rate (2020-2025) & (K Units)
- Figure 46. U.S. Mass Flow Controllers for Gases Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 47. Canada Mass Flow Controllers for Gases Sales (K Units) and Growth Rate (2020-2025)
- Figure 48. Canada Mass Flow Controllers for Gases Market Size (M USD) and Growth Rate (2020-2025)
- Figure 49. Mexico Mass Flow Controllers for Gases Sales (Units) and Growth Rate (2020-2025)
- Figure 50. Mexico Mass Flow Controllers for Gases Market Size (Units) and Growth Rate (2020-2025)
- Figure 51. Europe Mass Flow Controllers for Gases Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Mass Flow Controllers for Gases Sales Market Share by Country in 2024

Figure 53. Europe Mass Flow Controllers for Gases Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Mass Flow Controllers for Gases Market Size by Country in 2024

Figure 55. Germany Mass Flow Controllers for Gases Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Mass Flow Controllers for Gases Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Mass Flow Controllers for Gases Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Mass Flow Controllers for Gases Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Mass Flow Controllers for Gases Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Mass Flow Controllers for Gases Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Mass Flow Controllers for Gases Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Mass Flow Controllers for Gases Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Mass Flow Controllers for Gases Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Mass Flow Controllers for Gases Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Mass Flow Controllers for Gases Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Mass Flow Controllers for Gases Sales Market Share by Region in 2024

Figure 67. Asia Pacific Mass Flow Controllers for Gases Market Size by Region in 2024

Figure 68. China Mass Flow Controllers for Gases Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Mass Flow Controllers for Gases Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Mass Flow Controllers for Gases Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Mass Flow Controllers for Gases Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Mass Flow Controllers for Gases Sales and Growth Rate

(2020-2025) & (K Units)

Figure 73. South Korea Mass Flow Controllers for Gases Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Mass Flow Controllers for Gases Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Mass Flow Controllers for Gases Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Mass Flow Controllers for Gases Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Mass Flow Controllers for Gases Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Mass Flow Controllers for Gases Sales and Growth Rate (K Units)

Figure 79. South America Mass Flow Controllers for Gases Sales Market Share by Country in 2024

Figure 80. South America Mass Flow Controllers for Gases Market Size and Growth Rate (M USD)

Figure 81. South America Mass Flow Controllers for Gases Market Size by Country in 2024

Figure 82. Brazil Mass Flow Controllers for Gases Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Mass Flow Controllers for Gases Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Mass Flow Controllers for Gases Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Mass Flow Controllers for Gases Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Mass Flow Controllers for Gases Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Mass Flow Controllers for Gases Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Mass Flow Controllers for Gases Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Mass Flow Controllers for Gases Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Mass Flow Controllers for Gases Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Mass Flow Controllers for Gases Market Size by Region in 2024

Figure 92. Saudi Arabia Mass Flow Controllers for Gases Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Mass Flow Controllers for Gases Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Mass Flow Controllers for Gases Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Mass Flow Controllers for Gases Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Mass Flow Controllers for Gases Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Mass Flow Controllers for Gases Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Mass Flow Controllers for Gases Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Mass Flow Controllers for Gases Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Mass Flow Controllers for Gases Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Mass Flow Controllers for Gases Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Mass Flow Controllers for Gases Production Market Share by Region (2020-2025)

Figure 103. North America Mass Flow Controllers for Gases Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Mass Flow Controllers for Gases Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Mass Flow Controllers for Gases Production (K Units) Growth Rate (2020-2025)

Figure 106. China Mass Flow Controllers for Gases Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Mass Flow Controllers for Gases Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global Mass Flow Controllers for Gases Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Mass Flow Controllers for Gases Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Mass Flow Controllers for Gases Market Share Forecast by Type (2026-2035)

Figure 111. Global Mass Flow Controllers for Gases Sales Forecast by Application

(2026-2035)

Figure 112. Global Mass Flow Controllers for Gases Market Share Forecast by Application (2026-2035)

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