

Global Automotive Digital EGR Valve Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Automotive Digital EGR Valve market size was valued at US\$ 468 million in 2024 and is forecast to a readjusted size of USD 733 million by 2031 with a CAGR of 6.7% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

An automotive digital EGR (Exhaust Gas Recirculation) valve is a type of EGR valve that uses digital signals for precise control of the exhaust gas flow into the engine's intake system. Unlike traditional EGR valves that may rely on analog signals or mechanical components, the digital EGR valve is electronically controlled through the vehicle's Electronic Control Unit (ECU), using advanced sensors and algorithms to adjust the valve's position dynamically. This allows for more accurate regulation of nitrogen oxide (NOx) emissions and improved engine performance by optimizing combustion processes. The digital EGR valve enables real-time monitoring and adjustment of exhaust gas flow, offering enhanced fuel efficiency, lower emissions, and better overall engine efficiency.

The automotive digital EGR valve market is growing rapidly as automakers continue to develop more advanced technologies to meet stringent emission standards and improve engine efficiency. Digital EGR valves, which offer precise control over exhaust gas flow through digital signals and advanced algorithms, are becoming increasingly popular in modern vehicles. These valves provide superior performance compared to traditional mechanical or analog EGR valves by offering more accurate emission control and

enhanced fuel efficiency. As governments worldwide impose stricter regulations on nitrogen oxide (NOx) emissions, the demand for digital EGR valves is expected to increase, especially in regions with stringent environmental policies. Moreover, the growing adoption of hybrid and electric vehicles, which require sophisticated emission management systems, is expected to further drive market growth. The automotive digital EGR valve market is also benefiting from ongoing advancements in sensor technology and the integration of digital control systems, which improve the precision and reliability of these components.

This report is a detailed and comprehensive analysis for global Automotive Digital EGR Valve 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 Automotive Digital EGR Valve market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Automotive Digital EGR Valve market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Automotive Digital EGR Valve market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Automotive Digital EGR Valve market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

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

To assess the growth potential for Automotive Digital EGR Valve

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 Automotive Digital EGR Valve 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 Aisan Industry, BorgWarner, Rheinmetall, Denso, Mitsubishi Electric Corporation, Hitachi Astemo, Longsheng Technology, Zhejiang Richleo Environmental Technology, Vitesco, Korens, etc.

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

Market Segmentation

Automotive Digital EGR Valve market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Dual-Solenoid Digital EGR Valve

Tri-Solenoid Digital EGR Valve

Others

Market segment by Application

Passenger Cars

Commercial Vehicles

Major players covered

Aisan Industry

BorgWarner

Rheinmetall

Denso

Mitsubishi Electric Corporation

Hitachi Astemo

Longsheng Technology

Zhejiang Richleo Environmental Technology

Vitesco

Korens

Klubert + Schmidt

Mahle

FORVIA HELLA

Yinlun Machinery

Valeo

Gits Manufacturing

Wells Vehicle Electronics

PurePower Technologies

Nissens

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 Automotive Digital EGR Valve product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automotive Digital EGR Valve, with price, sales quantity, revenue, and global market share of Automotive Digital EGR Valve from 2020 to 2025.

Chapter 3, the Automotive Digital EGR Valve competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Automotive Digital EGR Valve breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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

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

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

Chapter 13, the key raw materials and key suppliers, and industry chain of Automotive Digital EGR Valve.

Chapter 14 and 15, to describe Automotive Digital EGR Valve 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 Automotive Digital EGR Valve Consumption Value by Type: 2020 Versus 2024 Versus 2031

1.3.2 Dual-Solenoid Digital EGR Valve

1.3.3 Tri-Solenoid Digital EGR Valve

1.3.4 Others

1.4 Market Analysis by Application

1.4.1 Overview: Global Automotive Digital EGR Valve Consumption Value by Application: 2020 Versus 2024 Versus 2031

1.4.2 Passenger Cars

1.4.3 Commercial Vehicles

1.5 Global Automotive Digital EGR Valve Market Size & Forecast

1.5.1 Global Automotive Digital EGR Valve Consumption Value (2020 & 2024 & 2031)

1.5.2 Global Automotive Digital EGR Valve Sales Quantity (2020-2031)

1.5.3 Global Automotive Digital EGR Valve Average Price (2020-2031)

2 MANUFACTURERS PROFILES

2.1 Aisan Industry

2.1.1 Aisan Industry Details

2.1.2 Aisan Industry Major Business

2.1.3 Aisan Industry Automotive Digital EGR Valve Product and Services

2.1.4 Aisan Industry Automotive Digital EGR Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.1.5 Aisan Industry Recent Developments/Updates

2.2 BorgWarner

2.2.1 BorgWarner Details

2.2.2 BorgWarner Major Business

2.2.3 BorgWarner Automotive Digital EGR Valve Product and Services

2.2.4 BorgWarner Automotive Digital EGR Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.2.5 BorgWarner Recent Developments/Updates

2.3 Rheinmetall

- 2.3.1 Rheinmetall Details
- 2.3.2 Rheinmetall Major Business
- 2.3.3 Rheinmetall Automotive Digital EGR Valve Product and Services
- 2.3.4 Rheinmetall Automotive Digital EGR Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
- 2.3.5 Rheinmetall Recent Developments/Updates
- 2.4 Denso
 - 2.4.1 Denso Details
 - 2.4.2 Denso Major Business
 - 2.4.3 Denso Automotive Digital EGR Valve Product and Services
 - 2.4.4 Denso Automotive Digital EGR Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.4.5 Denso Recent Developments/Updates
- 2.5 Mitsubishi Electric Corporation
 - 2.5.1 Mitsubishi Electric Corporation Details
 - 2.5.2 Mitsubishi Electric Corporation Major Business
 - 2.5.3 Mitsubishi Electric Corporation Automotive Digital EGR Valve Product and Services
 - 2.5.4 Mitsubishi Electric Corporation Automotive Digital EGR Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.5.5 Mitsubishi Electric Corporation Recent Developments/Updates
- 2.6 Hitachi Astemo
 - 2.6.1 Hitachi Astemo Details
 - 2.6.2 Hitachi Astemo Major Business
 - 2.6.3 Hitachi Astemo Automotive Digital EGR Valve Product and Services
 - 2.6.4 Hitachi Astemo Automotive Digital EGR Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.6.5 Hitachi Astemo Recent Developments/Updates
- 2.7 Longsheng Technology
 - 2.7.1 Longsheng Technology Details
 - 2.7.2 Longsheng Technology Major Business
 - 2.7.3 Longsheng Technology Automotive Digital EGR Valve Product and Services
 - 2.7.4 Longsheng Technology Automotive Digital EGR Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.7.5 Longsheng Technology Recent Developments/Updates
- 2.8 Zhejiang Richleo Environmental Technology
 - 2.8.1 Zhejiang Richleo Environmental Technology Details
 - 2.8.2 Zhejiang Richleo Environmental Technology Major Business
 - 2.8.3 Zhejiang Richleo Environmental Technology Automotive Digital EGR Valve

Product and Services

2.8.4 Zhejiang Richleo Environmental Technology Automotive Digital EGR Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.8.5 Zhejiang Richleo Environmental Technology Recent Developments/Updates

2.9 Vitesco

2.9.1 Vitesco Details

2.9.2 Vitesco Major Business

2.9.3 Vitesco Automotive Digital EGR Valve Product and Services

2.9.4 Vitesco Automotive Digital EGR Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.9.5 Vitesco Recent Developments/Updates

2.10 Korens

2.10.1 Korens Details

2.10.2 Korens Major Business

2.10.3 Korens Automotive Digital EGR Valve Product and Services

2.10.4 Korens Automotive Digital EGR Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.10.5 Korens Recent Developments/Updates

2.11 Klubert + Schmidt

2.11.1 Klubert + Schmidt Details

2.11.2 Klubert + Schmidt Major Business

2.11.3 Klubert + Schmidt Automotive Digital EGR Valve Product and Services

2.11.4 Klubert + Schmidt Automotive Digital EGR Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.11.5 Klubert + Schmidt Recent Developments/Updates

2.12 Mahle

2.12.1 Mahle Details

2.12.2 Mahle Major Business

2.12.3 Mahle Automotive Digital EGR Valve Product and Services

2.12.4 Mahle Automotive Digital EGR Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.12.5 Mahle Recent Developments/Updates

2.13 FORVIA HELLA

2.13.1 FORVIA HELLA Details

2.13.2 FORVIA HELLA Major Business

2.13.3 FORVIA HELLA Automotive Digital EGR Valve Product and Services

2.13.4 FORVIA HELLA Automotive Digital EGR Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.13.5 FORVIA HELLA Recent Developments/Updates

2.14 Yinlun Machinery

2.14.1 Yinlun Machinery Details

2.14.2 Yinlun Machinery Major Business

2.14.3 Yinlun Machinery Automotive Digital EGR Valve Product and Services

2.14.4 Yinlun Machinery Automotive Digital EGR Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.14.5 Yinlun Machinery Recent Developments/Updates

2.15 Valeo

2.15.1 Valeo Details

2.15.2 Valeo Major Business

2.15.3 Valeo Automotive Digital EGR Valve Product and Services

2.15.4 Valeo Automotive Digital EGR Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.15.5 Valeo Recent Developments/Updates

2.16 Gits Manufacturing

2.16.1 Gits Manufacturing Details

2.16.2 Gits Manufacturing Major Business

2.16.3 Gits Manufacturing Automotive Digital EGR Valve Product and Services

2.16.4 Gits Manufacturing Automotive Digital EGR Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.16.5 Gits Manufacturing Recent Developments/Updates

2.17 Wells Vehicle Electronics

2.17.1 Wells Vehicle Electronics Details

2.17.2 Wells Vehicle Electronics Major Business

2.17.3 Wells Vehicle Electronics Automotive Digital EGR Valve Product and Services

2.17.4 Wells Vehicle Electronics Automotive Digital EGR Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.17.5 Wells Vehicle Electronics Recent Developments/Updates

2.18 PurePower Technologies

2.18.1 PurePower Technologies Details

2.18.2 PurePower Technologies Major Business

2.18.3 PurePower Technologies Automotive Digital EGR Valve Product and Services

2.18.4 PurePower Technologies Automotive Digital EGR Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.18.5 PurePower Technologies Recent Developments/Updates

2.19 Nissens

2.19.1 Nissens Details

2.19.2 Nissens Major Business

2.19.3 Nissens Automotive Digital EGR Valve Product and Services

2.19.4 Nissens Automotive Digital EGR Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.19.5 Nissens Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: AUTOMOTIVE DIGITAL EGR VALVE BY MANUFACTURER

3.1 Global Automotive Digital EGR Valve Sales Quantity by Manufacturer (2020-2025)

3.2 Global Automotive Digital EGR Valve Revenue by Manufacturer (2020-2025)

3.3 Global Automotive Digital EGR Valve Average Price by Manufacturer (2020-2025)

3.4 Market Share Analysis (2024)

3.4.1 Producer Shipments of Automotive Digital EGR Valve by Manufacturer Revenue (\$MM) and Market Share (%): 2024

3.4.2 Top 3 Automotive Digital EGR Valve Manufacturer Market Share in 2024

3.4.3 Top 6 Automotive Digital EGR Valve Manufacturer Market Share in 2024

3.5 Automotive Digital EGR Valve Market: Overall Company Footprint Analysis

3.5.1 Automotive Digital EGR Valve Market: Region Footprint

3.5.2 Automotive Digital EGR Valve Market: Company Product Type Footprint

3.5.3 Automotive Digital EGR Valve 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 Automotive Digital EGR Valve Market Size by Region

4.1.1 Global Automotive Digital EGR Valve Sales Quantity by Region (2020-2031)

4.1.2 Global Automotive Digital EGR Valve Consumption Value by Region (2020-2031)

4.1.3 Global Automotive Digital EGR Valve Average Price by Region (2020-2031)

4.2 North America Automotive Digital EGR Valve Consumption Value (2020-2031)

4.3 Europe Automotive Digital EGR Valve Consumption Value (2020-2031)

4.4 Asia-Pacific Automotive Digital EGR Valve Consumption Value (2020-2031)

4.5 South America Automotive Digital EGR Valve Consumption Value (2020-2031)

4.6 Middle East & Africa Automotive Digital EGR Valve Consumption Value (2020-2031)

5 MARKET SEGMENT BY TYPE

5.1 Global Automotive Digital EGR Valve Sales Quantity by Type (2020-2031)

5.2 Global Automotive Digital EGR Valve Consumption Value by Type (2020-2031)

5.3 Global Automotive Digital EGR Valve Average Price by Type (2020-2031)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Automotive Digital EGR Valve Sales Quantity by Application (2020-2031)

6.2 Global Automotive Digital EGR Valve Consumption Value by Application (2020-2031)

6.3 Global Automotive Digital EGR Valve Average Price by Application (2020-2031)

7 NORTH AMERICA

7.1 North America Automotive Digital EGR Valve Sales Quantity by Type (2020-2031)

7.2 North America Automotive Digital EGR Valve Sales Quantity by Application (2020-2031)

7.3 North America Automotive Digital EGR Valve Market Size by Country

7.3.1 North America Automotive Digital EGR Valve Sales Quantity by Country (2020-2031)

7.3.2 North America Automotive Digital EGR Valve Consumption Value by Country (2020-2031)

7.3.3 United States Market Size and Forecast (2020-2031)

7.3.4 Canada Market Size and Forecast (2020-2031)

7.3.5 Mexico Market Size and Forecast (2020-2031)

8 EUROPE

8.1 Europe Automotive Digital EGR Valve Sales Quantity by Type (2020-2031)

8.2 Europe Automotive Digital EGR Valve Sales Quantity by Application (2020-2031)

8.3 Europe Automotive Digital EGR Valve Market Size by Country

8.3.1 Europe Automotive Digital EGR Valve Sales Quantity by Country (2020-2031)

8.3.2 Europe Automotive Digital EGR Valve Consumption Value by Country (2020-2031)

8.3.3 Germany Market Size and Forecast (2020-2031)

8.3.4 France Market Size and Forecast (2020-2031)

8.3.5 United Kingdom Market Size and Forecast (2020-2031)

8.3.6 Russia Market Size and Forecast (2020-2031)

8.3.7 Italy Market Size and Forecast (2020-2031)

9 ASIA-PACIFIC

9.1 Asia-Pacific Automotive Digital EGR Valve Sales Quantity by Type (2020-2031)

9.2 Asia-Pacific Automotive Digital EGR Valve Sales Quantity by Application (2020-2031)

9.3 Asia-Pacific Automotive Digital EGR Valve Market Size by Region

9.3.1 Asia-Pacific Automotive Digital EGR Valve Sales Quantity by Region (2020-2031)

9.3.2 Asia-Pacific Automotive Digital EGR Valve Consumption Value by Region (2020-2031)

9.3.3 China Market Size and Forecast (2020-2031)

9.3.4 Japan Market Size and Forecast (2020-2031)

9.3.5 South Korea Market Size and Forecast (2020-2031)

9.3.6 India Market Size and Forecast (2020-2031)

9.3.7 Southeast Asia Market Size and Forecast (2020-2031)

9.3.8 Australia Market Size and Forecast (2020-2031)

10 SOUTH AMERICA

10.1 South America Automotive Digital EGR Valve Sales Quantity by Type (2020-2031)

10.2 South America Automotive Digital EGR Valve Sales Quantity by Application (2020-2031)

10.3 South America Automotive Digital EGR Valve Market Size by Country

10.3.1 South America Automotive Digital EGR Valve Sales Quantity by Country (2020-2031)

10.3.2 South America Automotive Digital EGR Valve Consumption Value by Country (2020-2031)

10.3.3 Brazil Market Size and Forecast (2020-2031)

10.3.4 Argentina Market Size and Forecast (2020-2031)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Automotive Digital EGR Valve Sales Quantity by Type (2020-2031)

11.2 Middle East & Africa Automotive Digital EGR Valve Sales Quantity by Application (2020-2031)

11.3 Middle East & Africa Automotive Digital EGR Valve Market Size by Country

11.3.1 Middle East & Africa Automotive Digital EGR Valve Sales Quantity by Country (2020-2031)

11.3.2 Middle East & Africa Automotive Digital EGR Valve Consumption Value by Country (2020-2031)

- 11.3.3 Turkey Market Size and Forecast (2020-2031)
- 11.3.4 Egypt Market Size and Forecast (2020-2031)
- 11.3.5 Saudi Arabia Market Size and Forecast (2020-2031)
- 11.3.6 South Africa Market Size and Forecast (2020-2031)

12 MARKET DYNAMICS

- 12.1 Automotive Digital EGR Valve Market Drivers
- 12.2 Automotive Digital EGR Valve Market Restraints
- 12.3 Automotive Digital EGR Valve 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 Automotive Digital EGR Valve and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Automotive Digital EGR Valve
- 13.3 Automotive Digital EGR Valve 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 Automotive Digital EGR Valve Typical Distributors
- 14.3 Automotive Digital EGR Valve 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 Automotive Digital EGR Valve Consumption Value by Type, (USD Million), 2020 & 2024 & 2031

Table 2. Global Automotive Digital EGR Valve Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Table 3. Aisan Industry Basic Information, Manufacturing Base and Competitors

Table 4. Aisan Industry Major Business

Table 5. Aisan Industry Automotive Digital EGR Valve Product and Services

Table 6. Aisan Industry Automotive Digital EGR Valve Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 7. Aisan Industry Recent Developments/Updates

Table 8. BorgWarner Basic Information, Manufacturing Base and Competitors

Table 9. BorgWarner Major Business

Table 10. BorgWarner Automotive Digital EGR Valve Product and Services

Table 11. BorgWarner Automotive Digital EGR Valve Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 12. BorgWarner Recent Developments/Updates

Table 13. Rheinmetall Basic Information, Manufacturing Base and Competitors

Table 14. Rheinmetall Major Business

Table 15. Rheinmetall Automotive Digital EGR Valve Product and Services

Table 16. Rheinmetall Automotive Digital EGR Valve Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 17. Rheinmetall Recent Developments/Updates

Table 18. Denso Basic Information, Manufacturing Base and Competitors

Table 19. Denso Major Business

Table 20. Denso Automotive Digital EGR Valve Product and Services

Table 21. Denso Automotive Digital EGR Valve Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 22. Denso Recent Developments/Updates

Table 23. Mitsubishi Electric Corporation Basic Information, Manufacturing Base and Competitors

Table 24. Mitsubishi Electric Corporation Major Business

Table 25. Mitsubishi Electric Corporation Automotive Digital EGR Valve Product and Services

Table 26. Mitsubishi Electric Corporation Automotive Digital EGR Valve Sales Quantity

(K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 27. Mitsubishi Electric Corporation Recent Developments/Updates

Table 28. Hitachi Astemo Basic Information, Manufacturing Base and Competitors

Table 29. Hitachi Astemo Major Business

Table 30. Hitachi Astemo Automotive Digital EGR Valve Product and Services

Table 31. Hitachi Astemo Automotive Digital EGR Valve Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 32. Hitachi Astemo Recent Developments/Updates

Table 33. Longsheng Technology Basic Information, Manufacturing Base and Competitors

Table 34. Longsheng Technology Major Business

Table 35. Longsheng Technology Automotive Digital EGR Valve Product and Services

Table 36. Longsheng Technology Automotive Digital EGR Valve Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 37. Longsheng Technology Recent Developments/Updates

Table 38. Zhejiang Richleo Environmental Technology Basic Information, Manufacturing Base and Competitors

Table 39. Zhejiang Richleo Environmental Technology Major Business

Table 40. Zhejiang Richleo Environmental Technology Automotive Digital EGR Valve Product and Services

Table 41. Zhejiang Richleo Environmental Technology Automotive Digital EGR Valve Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 42. Zhejiang Richleo Environmental Technology Recent Developments/Updates

Table 43. Vitesco Basic Information, Manufacturing Base and Competitors

Table 44. Vitesco Major Business

Table 45. Vitesco Automotive Digital EGR Valve Product and Services

Table 46. Vitesco Automotive Digital EGR Valve Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 47. Vitesco Recent Developments/Updates

Table 48. Korens Basic Information, Manufacturing Base and Competitors

Table 49. Korens Major Business

Table 50. Korens Automotive Digital EGR Valve Product and Services

Table 51. Korens Automotive Digital EGR Valve Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 52. Korens Recent Developments/Updates

Table 53. Klubert + Schmidt Basic Information, Manufacturing Base and Competitors

Table 54. Klubert + Schmidt Major Business

Table 55. Klubert + Schmidt Automotive Digital EGR Valve Product and Services

Table 56. Klubert + Schmidt Automotive Digital EGR Valve Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 57. Klubert + Schmidt Recent Developments/Updates

Table 58. Mahle Basic Information, Manufacturing Base and Competitors

Table 59. Mahle Major Business

Table 60. Mahle Automotive Digital EGR Valve Product and Services

Table 61. Mahle Automotive Digital EGR Valve Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 62. Mahle Recent Developments/Updates

Table 63. FORVIA HELLA Basic Information, Manufacturing Base and Competitors

Table 64. FORVIA HELLA Major Business

Table 65. FORVIA HELLA Automotive Digital EGR Valve Product and Services

Table 66. FORVIA HELLA Automotive Digital EGR Valve Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 67. FORVIA HELLA Recent Developments/Updates

Table 68. Yinlun Machinery Basic Information, Manufacturing Base and Competitors

Table 69. Yinlun Machinery Major Business

Table 70. Yinlun Machinery Automotive Digital EGR Valve Product and Services

Table 71. Yinlun Machinery Automotive Digital EGR Valve Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 72. Yinlun Machinery Recent Developments/Updates

Table 73. Valeo Basic Information, Manufacturing Base and Competitors

Table 74. Valeo Major Business

Table 75. Valeo Automotive Digital EGR Valve Product and Services

Table 76. Valeo Automotive Digital EGR Valve Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 77. Valeo Recent Developments/Updates

Table 78. Gits Manufacturing Basic Information, Manufacturing Base and Competitors

Table 79. Gits Manufacturing Major Business

Table 80. Gits Manufacturing Automotive Digital EGR Valve Product and Services

Table 81. Gits Manufacturing Automotive Digital EGR Valve Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 82. Gits Manufacturing Recent Developments/Updates

Table 83. Wells Vehicle Electronics Basic Information, Manufacturing Base and Competitors

Table 84. Wells Vehicle Electronics Major Business

Table 85. Wells Vehicle Electronics Automotive Digital EGR Valve Product and Services

Table 86. Wells Vehicle Electronics Automotive Digital EGR Valve Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 87. Wells Vehicle Electronics Recent Developments/Updates

Table 88. PurePower Technologies Basic Information, Manufacturing Base and Competitors

Table 89. PurePower Technologies Major Business

Table 90. PurePower Technologies Automotive Digital EGR Valve Product and Services

Table 91. PurePower Technologies Automotive Digital EGR Valve Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 92. PurePower Technologies Recent Developments/Updates

Table 93. Nissens Basic Information, Manufacturing Base and Competitors

Table 94. Nissens Major Business

Table 95. Nissens Automotive Digital EGR Valve Product and Services

Table 96. Nissens Automotive Digital EGR Valve Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 97. Nissens Recent Developments/Updates

Table 98. Global Automotive Digital EGR Valve Sales Quantity by Manufacturer (2020-2025) & (K Units)

Table 99. Global Automotive Digital EGR Valve Revenue by Manufacturer (2020-2025) & (USD Million)

Table 100. Global Automotive Digital EGR Valve Average Price by Manufacturer (2020-2025) & (US\$/Unit)

Table 101. Market Position of Manufacturers in Automotive Digital EGR Valve, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2024

Table 102. Head Office and Automotive Digital EGR Valve Production Site of Key Manufacturer

Table 103. Automotive Digital EGR Valve Market: Company Product Type Footprint

Table 104. Automotive Digital EGR Valve Market: Company Product Application Footprint

Table 105. Automotive Digital EGR Valve New Market Entrants and Barriers to Market Entry

Table 106. Automotive Digital EGR Valve Mergers, Acquisition, Agreements, and

Collaborations

Table 107. Global Automotive Digital EGR Valve Consumption Value by Region (2020-2024-2031) & (USD Million) & CAGR

Table 108. Global Automotive Digital EGR Valve Sales Quantity by Region (2020-2025) & (K Units)

Table 109. Global Automotive Digital EGR Valve Sales Quantity by Region (2026-2031) & (K Units)

Table 110. Global Automotive Digital EGR Valve Consumption Value by Region (2020-2025) & (USD Million)

Table 111. Global Automotive Digital EGR Valve Consumption Value by Region (2026-2031) & (USD Million)

Table 112. Global Automotive Digital EGR Valve Average Price by Region (2020-2025) & (US\$/Unit)

Table 113. Global Automotive Digital EGR Valve Average Price by Region (2026-2031) & (US\$/Unit)

Table 114. Global Automotive Digital EGR Valve Sales Quantity by Type (2020-2025) & (K Units)

Table 115. Global Automotive Digital EGR Valve Sales Quantity by Type (2026-2031) & (K Units)

Table 116. Global Automotive Digital EGR Valve Consumption Value by Type (2020-2025) & (USD Million)

Table 117. Global Automotive Digital EGR Valve Consumption Value by Type (2026-2031) & (USD Million)

Table 118. Global Automotive Digital EGR Valve Average Price by Type (2020-2025) & (US\$/Unit)

Table 119. Global Automotive Digital EGR Valve Average Price by Type (2026-2031) & (US\$/Unit)

Table 120. Global Automotive Digital EGR Valve Sales Quantity by Application (2020-2025) & (K Units)

Table 121. Global Automotive Digital EGR Valve Sales Quantity by Application (2026-2031) & (K Units)

Table 122. Global Automotive Digital EGR Valve Consumption Value by Application (2020-2025) & (USD Million)

Table 123. Global Automotive Digital EGR Valve Consumption Value by Application (2026-2031) & (USD Million)

Table 124. Global Automotive Digital EGR Valve Average Price by Application (2020-2025) & (US\$/Unit)

Table 125. Global Automotive Digital EGR Valve Average Price by Application (2026-2031) & (US\$/Unit)

Table 126. North America Automotive Digital EGR Valve Sales Quantity by Type (2020-2025) & (K Units)

Table 127. North America Automotive Digital EGR Valve Sales Quantity by Type (2026-2031) & (K Units)

Table 128. North America Automotive Digital EGR Valve Sales Quantity by Application (2020-2025) & (K Units)

Table 129. North America Automotive Digital EGR Valve Sales Quantity by Application (2026-2031) & (K Units)

Table 130. North America Automotive Digital EGR Valve Sales Quantity by Country (2020-2025) & (K Units)

Table 131. North America Automotive Digital EGR Valve Sales Quantity by Country (2026-2031) & (K Units)

Table 132. North America Automotive Digital EGR Valve Consumption Value by Country (2020-2025) & (USD Million)

Table 133. North America Automotive Digital EGR Valve Consumption Value by Country (2026-2031) & (USD Million)

Table 134. Europe Automotive Digital EGR Valve Sales Quantity by Type (2020-2025) & (K Units)

Table 135. Europe Automotive Digital EGR Valve Sales Quantity by Type (2026-2031) & (K Units)

Table 136. Europe Automotive Digital EGR Valve Sales Quantity by Application (2020-2025) & (K Units)

Table 137. Europe Automotive Digital EGR Valve Sales Quantity by Application (2026-2031) & (K Units)

Table 138. Europe Automotive Digital EGR Valve Sales Quantity by Country (2020-2025) & (K Units)

Table 139. Europe Automotive Digital EGR Valve Sales Quantity by Country (2026-2031) & (K Units)

Table 140. Europe Automotive Digital EGR Valve Consumption Value by Country (2020-2025) & (USD Million)

Table 141. Europe Automotive Digital EGR Valve Consumption Value by Country (2026-2031) & (USD Million)

Table 142. Asia-Pacific Automotive Digital EGR Valve Sales Quantity by Type (2020-2025) & (K Units)

Table 143. Asia-Pacific Automotive Digital EGR Valve Sales Quantity by Type (2026-2031) & (K Units)

Table 144. Asia-Pacific Automotive Digital EGR Valve Sales Quantity by Application (2020-2025) & (K Units)

Table 145. Asia-Pacific Automotive Digital EGR Valve Sales Quantity by Application

(2026-2031) & (K Units)

Table 146. Asia-Pacific Automotive Digital EGR Valve Sales Quantity by Region (2020-2025) & (K Units)

Table 147. Asia-Pacific Automotive Digital EGR Valve Sales Quantity by Region (2026-2031) & (K Units)

Table 148. Asia-Pacific Automotive Digital EGR Valve Consumption Value by Region (2020-2025) & (USD Million)

Table 149. Asia-Pacific Automotive Digital EGR Valve Consumption Value by Region (2026-2031) & (USD Million)

Table 150. South America Automotive Digital EGR Valve Sales Quantity by Type (2020-2025) & (K Units)

Table 151. South America Automotive Digital EGR Valve Sales Quantity by Type (2026-2031) & (K Units)

Table 152. South America Automotive Digital EGR Valve Sales Quantity by Application (2020-2025) & (K Units)

Table 153. South America Automotive Digital EGR Valve Sales Quantity by Application (2026-2031) & (K Units)

Table 154. South America Automotive Digital EGR Valve Sales Quantity by Country (2020-2025) & (K Units)

Table 155. South America Automotive Digital EGR Valve Sales Quantity by Country (2026-2031) & (K Units)

Table 156. South America Automotive Digital EGR Valve Consumption Value by Country (2020-2025) & (USD Million)

Table 157. South America Automotive Digital EGR Valve Consumption Value by Country (2026-2031) & (USD Million)

Table 158. Middle East & Africa Automotive Digital EGR Valve Sales Quantity by Type (2020-2025) & (K Units)

Table 159. Middle East & Africa Automotive Digital EGR Valve Sales Quantity by Type (2026-2031) & (K Units)

Table 160. Middle East & Africa Automotive Digital EGR Valve Sales Quantity by Application (2020-2025) & (K Units)

Table 161. Middle East & Africa Automotive Digital EGR Valve Sales Quantity by Application (2026-2031) & (K Units)

Table 162. Middle East & Africa Automotive Digital EGR Valve Sales Quantity by Country (2020-2025) & (K Units)

Table 163. Middle East & Africa Automotive Digital EGR Valve Sales Quantity by Country (2026-2031) & (K Units)

Table 164. Middle East & Africa Automotive Digital EGR Valve Consumption Value by Country (2020-2025) & (USD Million)

Table 165. Middle East & Africa Automotive Digital EGR Valve Consumption Value by Country (2026-2031) & (USD Million)

Table 166. Automotive Digital EGR Valve Raw Material

Table 167. Key Manufacturers of Automotive Digital EGR Valve Raw Materials

Table 168. Automotive Digital EGR Valve Typical Distributors

Table 169. Automotive Digital EGR Valve Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Automotive Digital EGR Valve Picture
- Figure 2. Global Automotive Digital EGR Valve Revenue by Type, (USD Million), 2020 & 2024 & 2031
- Figure 3. Global Automotive Digital EGR Valve Revenue Market Share by Type in 2024
- Figure 4. Dual-Solenoid Digital EGR Valve Examples
- Figure 5. Tri-Solenoid Digital EGR Valve Examples
- Figure 6. Others Examples
- Figure 7. Global Automotive Digital EGR Valve Consumption Value by Application, (USD Million), 2020 & 2024 & 2031
- Figure 8. Global Automotive Digital EGR Valve Revenue Market Share by Application in 2024
- Figure 9. Passenger Cars Examples
- Figure 10. Commercial Vehicles Examples
- Figure 11. Global Automotive Digital EGR Valve Consumption Value, (USD Million): 2020 & 2024 & 2031
- Figure 12. Global Automotive Digital EGR Valve Consumption Value and Forecast (2020-2031) & (USD Million)
- Figure 13. Global Automotive Digital EGR Valve Sales Quantity (2020-2031) & (K Units)
- Figure 14. Global Automotive Digital EGR Valve Price (2020-2031) & (US\$/Unit)
- Figure 15. Global Automotive Digital EGR Valve Sales Quantity Market Share by Manufacturer in 2024
- Figure 16. Global Automotive Digital EGR Valve Revenue Market Share by Manufacturer in 2024
- Figure 17. Producer Shipments of Automotive Digital EGR Valve by Manufacturer Sales (\$MM) and Market Share (%): 2024
- Figure 18. Top 3 Automotive Digital EGR Valve Manufacturer (Revenue) Market Share in 2024
- Figure 19. Top 6 Automotive Digital EGR Valve Manufacturer (Revenue) Market Share in 2024
- Figure 20. Global Automotive Digital EGR Valve Sales Quantity Market Share by Region (2020-2031)
- Figure 21. Global Automotive Digital EGR Valve Consumption Value Market Share by Region (2020-2031)
- Figure 22. North America Automotive Digital EGR Valve Consumption Value (2020-2031) & (USD Million)

Figure 23. Europe Automotive Digital EGR Valve Consumption Value (2020-2031) & (USD Million)

Figure 24. Asia-Pacific Automotive Digital EGR Valve Consumption Value (2020-2031) & (USD Million)

Figure 25. South America Automotive Digital EGR Valve Consumption Value (2020-2031) & (USD Million)

Figure 26. Middle East & Africa Automotive Digital EGR Valve Consumption Value (2020-2031) & (USD Million)

Figure 27. Global Automotive Digital EGR Valve Sales Quantity Market Share by Type (2020-2031)

Figure 28. Global Automotive Digital EGR Valve Consumption Value Market Share by Type (2020-2031)

Figure 29. Global Automotive Digital EGR Valve Average Price by Type (2020-2031) & (US\$/Unit)

Figure 30. Global Automotive Digital EGR Valve Sales Quantity Market Share by Application (2020-2031)

Figure 31. Global Automotive Digital EGR Valve Revenue Market Share by Application (2020-2031)

Figure 32. Global Automotive Digital EGR Valve Average Price by Application (2020-2031) & (US\$/Unit)

Figure 33. North America Automotive Digital EGR Valve Sales Quantity Market Share by Type (2020-2031)

Figure 34. North America Automotive Digital EGR Valve Sales Quantity Market Share by Application (2020-2031)

Figure 35. North America Automotive Digital EGR Valve Sales Quantity Market Share by Country (2020-2031)

Figure 36. North America Automotive Digital EGR Valve Consumption Value Market Share by Country (2020-2031)

Figure 37. United States Automotive Digital EGR Valve Consumption Value (2020-2031) & (USD Million)

Figure 38. Canada Automotive Digital EGR Valve Consumption Value (2020-2031) & (USD Million)

Figure 39. Mexico Automotive Digital EGR Valve Consumption Value (2020-2031) & (USD Million)

Figure 40. Europe Automotive Digital EGR Valve Sales Quantity Market Share by Type (2020-2031)

Figure 41. Europe Automotive Digital EGR Valve Sales Quantity Market Share by Application (2020-2031)

Figure 42. Europe Automotive Digital EGR Valve Sales Quantity Market Share by

Country (2020-2031)

Figure 43. Europe Automotive Digital EGR Valve Consumption Value Market Share by Country (2020-2031)

Figure 44. Germany Automotive Digital EGR Valve Consumption Value (2020-2031) & (USD Million)

Figure 45. France Automotive Digital EGR Valve Consumption Value (2020-2031) & (USD Million)

Figure 46. United Kingdom Automotive Digital EGR Valve Consumption Value (2020-2031) & (USD Million)

Figure 47. Russia Automotive Digital EGR Valve Consumption Value (2020-2031) & (USD Million)

Figure 48. Italy Automotive Digital EGR Valve Consumption Value (2020-2031) & (USD Million)

Figure 49. Asia-Pacific Automotive Digital EGR Valve Sales Quantity Market Share by Type (2020-2031)

Figure 50. Asia-Pacific Automotive Digital EGR Valve Sales Quantity Market Share by Application (2020-2031)

Figure 51. Asia-Pacific Automotive Digital EGR Valve Sales Quantity Market Share by Region (2020-2031)

Figure 52. Asia-Pacific Automotive Digital EGR Valve Consumption Value Market Share by Region (2020-2031)

Figure 53. China Automotive Digital EGR Valve Consumption Value (2020-2031) & (USD Million)

Figure 54. Japan Automotive Digital EGR Valve Consumption Value (2020-2031) & (USD Million)

Figure 55. South Korea Automotive Digital EGR Valve Consumption Value (2020-2031) & (USD Million)

Figure 56. India Automotive Digital EGR Valve Consumption Value (2020-2031) & (USD Million)

Figure 57. Southeast Asia Automotive Digital EGR Valve Consumption Value (2020-2031) & (USD Million)

Figure 58. Australia Automotive Digital EGR Valve Consumption Value (2020-2031) & (USD Million)

Figure 59. South America Automotive Digital EGR Valve Sales Quantity Market Share by Type (2020-2031)

Figure 60. South America Automotive Digital EGR Valve Sales Quantity Market Share by Application (2020-2031)

Figure 61. South America Automotive Digital EGR Valve Sales Quantity Market Share by Country (2020-2031)

Figure 62. South America Automotive Digital EGR Valve Consumption Value Market Share by Country (2020-2031)

Figure 63. Brazil Automotive Digital EGR Valve Consumption Value (2020-2031) & (USD Million)

Figure 64. Argentina Automotive Digital EGR Valve Consumption Value (2020-2031) & (USD Million)

Figure 65. Middle East & Africa Automotive Digital EGR Valve Sales Quantity Market Share by Type (2020-2031)

Figure 66. Middle East & Africa Automotive Digital EGR Valve Sales Quantity Market Share by Application (2020-2031)

Figure 67. Middle East & Africa Automotive Digital EGR Valve Sales Quantity Market Share by Country (2020-2031)

Figure 68. Middle East & Africa Automotive Digital EGR Valve Consumption Value Market Share by Country (2020-2031)

Figure 69. Turkey Automotive Digital EGR Valve Consumption Value (2020-2031) & (USD Million)

Figure 70. Egypt Automotive Digital EGR Valve Consumption Value (2020-2031) & (USD Million)

Figure 71. Saudi Arabia Automotive Digital EGR Valve Consumption Value (2020-2031) & (USD Million)

Figure 72. South Africa Automotive Digital EGR Valve Consumption Value (2020-2031) & (USD Million)

Figure 73. Automotive Digital EGR Valve Market Drivers

Figure 74. Automotive Digital EGR Valve Market Restraints

Figure 75. Automotive Digital EGR Valve Market Trends

Figure 76. Porters Five Forces Analysis

Figure 77. Manufacturing Cost Structure Analysis of Automotive Digital EGR Valve in 2024

Figure 78. Manufacturing Process Analysis of Automotive Digital EGR Valve

Figure 79. Automotive Digital EGR Valve Industrial Chain

Figure 80. Sales Channel: Direct to End-User vs Distributors

Figure 81. Direct Channel Pros & Cons

Figure 82. Indirect Channel Pros & Cons

Figure 83. Methodology

Figure 84. Research Process and Data Source

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