

Global Automotive Smart Coolant Valve Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Automotive Smart Coolant Valve market size was valued at US\$ 1564 million in 2025 and is forecast to a readjusted size of US\$ 2697 million by 2032 with a CAGR of 7.9% during review period.

Automotive smart coolant valves are electrically actuated flow-control devices used in vehicle thermal management systems to regulate, divert, mix, shut off, and distribute water-glycol coolant across multiple thermal loops. They typically combine a valve body, sealing system, rotor, ball, disc, poppet or multi-port flow path, electric or electromagnetic actuator, position feedback, control electronics, and LIN, PWM or CAN communication capability. The product is engineered to automotive-grade requirements for temperature range, pressure pulse resistance, vibration, EMC, durability, low internal leakage and diagnostic capability. This research focuses on electric coolant valves, smart coolant valves, multi-way coolant valves, coolant control hubs and coolant-side valve modules used in passenger cars, commercial vehicles, battery electric vehicles, plug-in hybrids, hybrids, fuel cell vehicles and selected electrified off-highway platforms. Key applications include battery thermal management, e-motor and power electronics cooling, engine warm-up, cabin heating, heat-pump coolant loops and integrated vehicle thermal management systems.

Based on our research, the industry nature of automotive smart coolant valves is not a simple electrification of traditional mechanical valves, but a key actuation node formed as vehicle thermal management systems evolve from a single cooling loop toward multi-heat-source, multi-mode and multi-loop coupling. BEVs, PHEVs and EREVs simultaneously require thermal management for batteries, e-motors and power electronics, cabins and heat-pump coolant loops. Under fast charging, low-temperature

heating, high-temperature cooling, waste-heat recovery and energy-optimization conditions, vehicles need to frequently switch coolant flow direction and flow rate. As a result, product forms are evolving from 2-way, 3-way and 4-way valves toward 7-way, 9-way, 12-way valves and even coolant control hubs, while control methods are moving from simple on-off control toward proportional regulation, position feedback, fault diagnosis and coordination with vehicle thermal management controllers. Some official product lines also indicate that coolant-side valves have become a basic component of new energy vehicle thermal management systems.

From the supply-side perspective, the global market is characterized by the coexistence of three types of players: traditional international Tier 1 suppliers, specialist valve manufacturers and Chinese new energy vehicle thermal management suppliers. European and Japanese suppliers have accumulated deep capabilities in engine thermal management, system integration, automotive-grade validation and global OEM customer systems. South Korea is mainly represented by Hanon Systems. North America has developed distinctive strengths in heavy-duty electric vehicles, aftermarket replacement and solenoid valve solutions. Chinese suppliers are accelerating their breakthroughs by leveraging high new energy vehicle penetration, fast platform iteration and localized supply capabilities, with some companies having built varying levels of presence in electric coolant valves, pump-valve modules and thermal management systems. The broad supplier pool is significantly larger than the core formal list, mainly because some companies only have module-level evidence, patent evidence or captive OEM evidence, which is not yet sufficient for them to be included in the core revenue model as independent suppliers.

From the demand-side perspective, industry growth after 2025 is mainly driven by the increasing complexity of new energy vehicle thermal management rather than by vehicle sales growth alone. The number of thermal management coolant valves used per electric vehicle is generally significantly higher than that of internal combustion engine vehicles. This is particularly evident in scenarios such as heat-pump air conditioning, high-voltage fast charging, low-temperature range optimization and battery life management, where multi-way valves and integrated coolant circuit modules show a clearer increase in value content.

This report is a detailed and comprehensive analysis for global Automotive Smart Coolant 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 Smart Coolant Valve market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive Smart Coolant Valve market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive Smart Coolant Valve 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 Automotive Smart Coolant Valve 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 Automotive Smart Coolant 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 Smart Coolant 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 Robert Bosch GmbH, DENSO Corporation, AISIN Corporation, Valeo, MAHLE GmbH, FORVIA SE, Marelli Holdings Co., Ltd., Rheinmetall AG, Hanon Systems, Zhejiang Sanhua Intelligent Controls Co., Ltd., etc.

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

Market Segmentation

Automotive Smart Coolant Valve 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

2-way Coolant Valve

3-way Coolant Valve

4-way Coolant Valve

Multi-port Coolant Valve

Market segment by Actuation Method

Brushed DC Motor Valve

Brushless DC Motor Valve

Other

Market segment by Communication and Control Interface

On-off Controlled Valve

PWM-controlled Valve

LIN-controlled Valve

CAN-controlled Valve

Other

Market segment by Control Function

Flow Switching Control

Flow Distribution Control

Other

Market segment by Application

E-drive and Power Electronics Cooling

Cabin Heating and HVAC Coolant Loop

Engine and Hybrid Powertrain Cooling

Other Thermal Loops

Major players covered

Robert Bosch GmbH

DENSO Corporation

AISIN Corporation

Valeo

MAHLE GmbH

FORVIA SE

Marelli Holdings Co., Ltd.

Rheinmetall AG

Hanon Systems

Zhejiang Sanhua Intelligent Controls Co., Ltd.

Gates Corporation

THOMAS Group

Modine Manufacturing Company

Pacific Industrial Co., Ltd.

Ningbo Tuopu Group Co., Ltd.

Zhejiang Yinlun Machinery Co., Ltd.

Hilite International

Solero Technologies

TLX Technologies

Tianbo Intelligent Technology (Shandong) Co., Ltd.

Sonceboz SA

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 Smart Coolant Valve product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automotive Smart Coolant Valve, with price, sales quantity, revenue, and global market share of Automotive Smart Coolant Valve from 2021 to 2026.

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

Chapter 4, the Automotive Smart Coolant Valve 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 Automotive Smart Coolant Valve 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 Automotive Smart Coolant Valve.

Chapter 14 and 15, to describe Automotive Smart Coolant 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 Smart Coolant Valve Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 2-way Coolant Valve

1.3.3 3-way Coolant Valve

1.3.4 4-way Coolant Valve

1.3.5 Multi-port Coolant Valve

1.4 Market Analysis by Actuation Method

1.4.1 Overview: Global Automotive Smart Coolant Valve Consumption Value by Actuation Method: 2021 Versus 2025 Versus 2032

1.4.2 Brushed DC Motor Valve

1.4.3 Brushless DC Motor Valve

1.4.4 Other

1.5 Market Analysis by Communication and Control Interface

1.5.1 Overview: Global Automotive Smart Coolant Valve Consumption Value by Communication and Control Interface: 2021 Versus 2025 Versus 2032

1.5.2 On-off Controlled Valve

1.5.3 PWM-controlled Valve

1.5.4 LIN-controlled Valve

1.5.5 CAN-controlled Valve

1.5.6 Other

1.6 Market Analysis by Control Function

1.6.1 Overview: Global Automotive Smart Coolant Valve Consumption Value by Control Function: 2021 Versus 2025 Versus 2032

1.6.2 Flow Switching Control

1.6.3 Flow Distribution Control

1.6.4 Other

1.7 Market Analysis by Application

1.7.1 Overview: Global Automotive Smart Coolant Valve Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.7.2 E-drive and Power Electronics Cooling

1.7.3 Cabin Heating and HVAC Coolant Loop

1.7.4 Engine and Hybrid Powertrain Cooling

- 1.7.5 Other Thermal Loops
- 1.8 Global Automotive Smart Coolant Valve Market Size & Forecast
 - 1.8.1 Global Automotive Smart Coolant Valve Consumption Value (2021 & 2025 & 2032)
 - 1.8.2 Global Automotive Smart Coolant Valve Sales Quantity (2021-2032)
 - 1.8.3 Global Automotive Smart Coolant Valve Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Robert Bosch GmbH

- 2.1.1 Robert Bosch GmbH Details
- 2.1.2 Robert Bosch GmbH Major Business
- 2.1.3 Robert Bosch GmbH Automotive Smart Coolant Valve Product and Services
- 2.1.4 Robert Bosch GmbH Automotive Smart Coolant Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.1.5 Robert Bosch GmbH Recent Developments/Updates

2.2 DENSO Corporation

- 2.2.1 DENSO Corporation Details
- 2.2.2 DENSO Corporation Major Business
- 2.2.3 DENSO Corporation Automotive Smart Coolant Valve Product and Services
- 2.2.4 DENSO Corporation Automotive Smart Coolant Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.2.5 DENSO Corporation Recent Developments/Updates

2.3 AISIN Corporation

- 2.3.1 AISIN Corporation Details
- 2.3.2 AISIN Corporation Major Business
- 2.3.3 AISIN Corporation Automotive Smart Coolant Valve Product and Services
- 2.3.4 AISIN Corporation Automotive Smart Coolant Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.3.5 AISIN Corporation Recent Developments/Updates

2.4 Valeo

- 2.4.1 Valeo Details
- 2.4.2 Valeo Major Business
- 2.4.3 Valeo Automotive Smart Coolant Valve Product and Services
- 2.4.4 Valeo Automotive Smart Coolant Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.4.5 Valeo Recent Developments/Updates

2.5 MAHLE GmbH

- 2.5.1 MAHLE GmbH Details

- 2.5.2 MAHLE GmbH Major Business
- 2.5.3 MAHLE GmbH Automotive Smart Coolant Valve Product and Services
- 2.5.4 MAHLE GmbH Automotive Smart Coolant Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.5.5 MAHLE GmbH Recent Developments/Updates
- 2.6 FORVIA SE
 - 2.6.1 FORVIA SE Details
 - 2.6.2 FORVIA SE Major Business
 - 2.6.3 FORVIA SE Automotive Smart Coolant Valve Product and Services
 - 2.6.4 FORVIA SE Automotive Smart Coolant Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.6.5 FORVIA SE Recent Developments/Updates
- 2.7 Marelli Holdings Co., Ltd.
 - 2.7.1 Marelli Holdings Co., Ltd. Details
 - 2.7.2 Marelli Holdings Co., Ltd. Major Business
 - 2.7.3 Marelli Holdings Co., Ltd. Automotive Smart Coolant Valve Product and Services
 - 2.7.4 Marelli Holdings Co., Ltd. Automotive Smart Coolant Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.7.5 Marelli Holdings Co., Ltd. Recent Developments/Updates
- 2.8 Rheinmetall AG
 - 2.8.1 Rheinmetall AG Details
 - 2.8.2 Rheinmetall AG Major Business
 - 2.8.3 Rheinmetall AG Automotive Smart Coolant Valve Product and Services
 - 2.8.4 Rheinmetall AG Automotive Smart Coolant Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 Rheinmetall AG Recent Developments/Updates
- 2.9 Hanon Systems
 - 2.9.1 Hanon Systems Details
 - 2.9.2 Hanon Systems Major Business
 - 2.9.3 Hanon Systems Automotive Smart Coolant Valve Product and Services
 - 2.9.4 Hanon Systems Automotive Smart Coolant Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 Hanon Systems Recent Developments/Updates
- 2.10 Zhejiang Sanhua Intelligent Controls Co., Ltd.
 - 2.10.1 Zhejiang Sanhua Intelligent Controls Co., Ltd. Details
 - 2.10.2 Zhejiang Sanhua Intelligent Controls Co., Ltd. Major Business
 - 2.10.3 Zhejiang Sanhua Intelligent Controls Co., Ltd. Automotive Smart Coolant Valve Product and Services
 - 2.10.4 Zhejiang Sanhua Intelligent Controls Co., Ltd. Automotive Smart Coolant Valve

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

2.10.5 Zhejiang Sanhua Intelligent Controls Co., Ltd. Recent Developments/Updates

2.11 Gates Corporation

2.11.1 Gates Corporation Details

2.11.2 Gates Corporation Major Business

2.11.3 Gates Corporation Automotive Smart Coolant Valve Product and Services

2.11.4 Gates Corporation Automotive Smart Coolant Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 Gates Corporation Recent Developments/Updates

2.12 THOMAS Group

2.12.1 THOMAS Group Details

2.12.2 THOMAS Group Major Business

2.12.3 THOMAS Group Automotive Smart Coolant Valve Product and Services

2.12.4 THOMAS Group Automotive Smart Coolant Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.12.5 THOMAS Group Recent Developments/Updates

2.13 Modine Manufacturing Company

2.13.1 Modine Manufacturing Company Details

2.13.2 Modine Manufacturing Company Major Business

2.13.3 Modine Manufacturing Company Automotive Smart Coolant Valve Product and Services

2.13.4 Modine Manufacturing Company Automotive Smart Coolant Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.13.5 Modine Manufacturing Company Recent Developments/Updates

2.14 Pacific Industrial Co., Ltd.

2.14.1 Pacific Industrial Co., Ltd. Details

2.14.2 Pacific Industrial Co., Ltd. Major Business

2.14.3 Pacific Industrial Co., Ltd. Automotive Smart Coolant Valve Product and Services

2.14.4 Pacific Industrial Co., Ltd. Automotive Smart Coolant Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.14.5 Pacific Industrial Co., Ltd. Recent Developments/Updates

2.15 Ningbo Tuopu Group Co., Ltd.

2.15.1 Ningbo Tuopu Group Co., Ltd. Details

2.15.2 Ningbo Tuopu Group Co., Ltd. Major Business

2.15.3 Ningbo Tuopu Group Co., Ltd. Automotive Smart Coolant Valve Product and Services

2.15.4 Ningbo Tuopu Group Co., Ltd. Automotive Smart Coolant Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

- 2.15.5 Ningbo Tuopu Group Co., Ltd. Recent Developments/Updates
- 2.16 Zhejiang Yinlun Machinery Co., Ltd.
 - 2.16.1 Zhejiang Yinlun Machinery Co., Ltd. Details
 - 2.16.2 Zhejiang Yinlun Machinery Co., Ltd. Major Business
 - 2.16.3 Zhejiang Yinlun Machinery Co., Ltd. Automotive Smart Coolant Valve Product and Services
 - 2.16.4 Zhejiang Yinlun Machinery Co., Ltd. Automotive Smart Coolant Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.16.5 Zhejiang Yinlun Machinery Co., Ltd. Recent Developments/Updates
- 2.17 Hilite International
 - 2.17.1 Hilite International Details
 - 2.17.2 Hilite International Major Business
 - 2.17.3 Hilite International Automotive Smart Coolant Valve Product and Services
 - 2.17.4 Hilite International Automotive Smart Coolant Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.17.5 Hilite International Recent Developments/Updates
- 2.18 Solero Technologies
 - 2.18.1 Solero Technologies Details
 - 2.18.2 Solero Technologies Major Business
 - 2.18.3 Solero Technologies Automotive Smart Coolant Valve Product and Services
 - 2.18.4 Solero Technologies Automotive Smart Coolant Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.18.5 Solero Technologies Recent Developments/Updates
- 2.19 TLX Technologies
 - 2.19.1 TLX Technologies Details
 - 2.19.2 TLX Technologies Major Business
 - 2.19.3 TLX Technologies Automotive Smart Coolant Valve Product and Services
 - 2.19.4 TLX Technologies Automotive Smart Coolant Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.19.5 TLX Technologies Recent Developments/Updates
- 2.20 Tianbo Intelligent Technology (Shandong) Co., Ltd.
 - 2.20.1 Tianbo Intelligent Technology (Shandong) Co., Ltd. Details
 - 2.20.2 Tianbo Intelligent Technology (Shandong) Co., Ltd. Major Business
 - 2.20.3 Tianbo Intelligent Technology (Shandong) Co., Ltd. Automotive Smart Coolant Valve Product and Services
 - 2.20.4 Tianbo Intelligent Technology (Shandong) Co., Ltd. Automotive Smart Coolant Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.20.5 Tianbo Intelligent Technology (Shandong) Co., Ltd. Recent

Developments/Updates

2.21 Sonceboz SA

2.21.1 Sonceboz SA Details

2.21.2 Sonceboz SA Major Business

2.21.3 Sonceboz SA Automotive Smart Coolant Valve Product and Services

2.21.4 Sonceboz SA Automotive Smart Coolant Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.21.5 Sonceboz SA Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: AUTOMOTIVE SMART COOLANT VALVE BY MANUFACTURER

3.1 Global Automotive Smart Coolant Valve Sales Quantity by Manufacturer (2021-2026)

3.2 Global Automotive Smart Coolant Valve Revenue by Manufacturer (2021-2026)

3.3 Global Automotive Smart Coolant Valve Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of Automotive Smart Coolant Valve by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 Automotive Smart Coolant Valve Manufacturer Market Share in 2025

3.4.3 Top 6 Automotive Smart Coolant Valve Manufacturer Market Share in 2025

3.5 Automotive Smart Coolant Valve Market: Overall Company Footprint Analysis

3.5.1 Automotive Smart Coolant Valve Market: Region Footprint

3.5.2 Automotive Smart Coolant Valve Market: Company Product Type Footprint

3.5.3 Automotive Smart Coolant 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 Smart Coolant Valve Market Size by Region

4.1.1 Global Automotive Smart Coolant Valve Sales Quantity by Region (2021-2032)

4.1.2 Global Automotive Smart Coolant Valve Consumption Value by Region (2021-2032)

4.1.3 Global Automotive Smart Coolant Valve Average Price by Region (2021-2032)

4.2 North America Automotive Smart Coolant Valve Consumption Value (2021-2032)

4.3 Europe Automotive Smart Coolant Valve Consumption Value (2021-2032)

4.4 Asia-Pacific Automotive Smart Coolant Valve Consumption Value (2021-2032)

- 4.5 South America Automotive Smart Coolant Valve Consumption Value (2021-2032)
- 4.6 Middle East & Africa Automotive Smart Coolant Valve Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

- 5.1 Global Automotive Smart Coolant Valve Sales Quantity by Type (2021-2032)
- 5.2 Global Automotive Smart Coolant Valve Consumption Value by Type (2021-2032)
- 5.3 Global Automotive Smart Coolant Valve Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Automotive Smart Coolant Valve Sales Quantity by Application (2021-2032)
- 6.2 Global Automotive Smart Coolant Valve Consumption Value by Application (2021-2032)
- 6.3 Global Automotive Smart Coolant Valve Average Price by Application (2021-2032)

7 NORTH AMERICA

- 7.1 North America Automotive Smart Coolant Valve Sales Quantity by Type (2021-2032)
- 7.2 North America Automotive Smart Coolant Valve Sales Quantity by Application (2021-2032)
- 7.3 North America Automotive Smart Coolant Valve Market Size by Country
 - 7.3.1 North America Automotive Smart Coolant Valve Sales Quantity by Country (2021-2032)
 - 7.3.2 North America Automotive Smart Coolant Valve 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 Automotive Smart Coolant Valve Sales Quantity by Type (2021-2032)
- 8.2 Europe Automotive Smart Coolant Valve Sales Quantity by Application (2021-2032)
- 8.3 Europe Automotive Smart Coolant Valve Market Size by Country
 - 8.3.1 Europe Automotive Smart Coolant Valve Sales Quantity by Country (2021-2032)
 - 8.3.2 Europe Automotive Smart Coolant Valve 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 Automotive Smart Coolant Valve Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Automotive Smart Coolant Valve Sales Quantity by Application
(2021-2032)

9.3 Asia-Pacific Automotive Smart Coolant Valve Market Size by Region

9.3.1 Asia-Pacific Automotive Smart Coolant Valve Sales Quantity by Region
(2021-2032)

9.3.2 Asia-Pacific Automotive Smart Coolant Valve 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 Automotive Smart Coolant Valve Sales Quantity by Type
(2021-2032)

10.2 South America Automotive Smart Coolant Valve Sales Quantity by Application
(2021-2032)

10.3 South America Automotive Smart Coolant Valve Market Size by Country

10.3.1 South America Automotive Smart Coolant Valve Sales Quantity by Country
(2021-2032)

10.3.2 South America Automotive Smart Coolant Valve 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 Automotive Smart Coolant Valve Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Automotive Smart Coolant Valve Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Automotive Smart Coolant Valve Market Size by Country

11.3.1 Middle East & Africa Automotive Smart Coolant Valve Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Automotive Smart Coolant Valve 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 Automotive Smart Coolant Valve Market Drivers

12.2 Automotive Smart Coolant Valve Market Restraints

12.3 Automotive Smart Coolant 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 Smart Coolant Valve and Key Manufacturers

13.2 Manufacturing Costs Percentage of Automotive Smart Coolant Valve

13.3 Automotive Smart Coolant 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 Smart Coolant Valve Typical Distributors

14.3 Automotive Smart Coolant 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 Smart Coolant Valve Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Automotive Smart Coolant Valve Consumption Value by Actuation Method, (USD Million), 2021 & 2025 & 2032

Table 3. Global Automotive Smart Coolant Valve Consumption Value by Communication and Control Interface, (USD Million), 2021 & 2025 & 2032

Table 4. Global Automotive Smart Coolant Valve Consumption Value by Control Function, (USD Million), 2021 & 2025 & 2032

Table 5. Global Automotive Smart Coolant Valve Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 6. Robert Bosch GmbH Basic Information, Manufacturing Base and Competitors

Table 7. Robert Bosch GmbH Major Business

Table 8. Robert Bosch GmbH Automotive Smart Coolant Valve Product and Services

Table 9. Robert Bosch GmbH Automotive Smart Coolant Valve Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 10. Robert Bosch GmbH Recent Developments/Updates

Table 11. DENSO Corporation Basic Information, Manufacturing Base and Competitors

Table 12. DENSO Corporation Major Business

Table 13. DENSO Corporation Automotive Smart Coolant Valve Product and Services

Table 14. DENSO Corporation Automotive Smart Coolant Valve Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 15. DENSO Corporation Recent Developments/Updates

Table 16. AISIN Corporation Basic Information, Manufacturing Base and Competitors

Table 17. AISIN Corporation Major Business

Table 18. AISIN Corporation Automotive Smart Coolant Valve Product and Services

Table 19. AISIN Corporation Automotive Smart Coolant Valve Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 20. AISIN Corporation Recent Developments/Updates

Table 21. Valeo Basic Information, Manufacturing Base and Competitors

Table 22. Valeo Major Business

Table 23. Valeo Automotive Smart Coolant Valve Product and Services

Table 24. Valeo Automotive Smart Coolant Valve Sales Quantity (Units), Average Price

(US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 25. Valeo Recent Developments/Updates

Table 26. MAHLE GmbH Basic Information, Manufacturing Base and Competitors

Table 27. MAHLE GmbH Major Business

Table 28. MAHLE GmbH Automotive Smart Coolant Valve Product and Services

Table 29. MAHLE GmbH Automotive Smart Coolant Valve Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 30. MAHLE GmbH Recent Developments/Updates

Table 31. FORVIA SE Basic Information, Manufacturing Base and Competitors

Table 32. FORVIA SE Major Business

Table 33. FORVIA SE Automotive Smart Coolant Valve Product and Services

Table 34. FORVIA SE Automotive Smart Coolant Valve Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 35. FORVIA SE Recent Developments/Updates

Table 36. Marelli Holdings Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 37. Marelli Holdings Co., Ltd. Major Business

Table 38. Marelli Holdings Co., Ltd. Automotive Smart Coolant Valve Product and Services

Table 39. Marelli Holdings Co., Ltd. Automotive Smart Coolant Valve Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 40. Marelli Holdings Co., Ltd. Recent Developments/Updates

Table 41. Rheinmetall AG Basic Information, Manufacturing Base and Competitors

Table 42. Rheinmetall AG Major Business

Table 43. Rheinmetall AG Automotive Smart Coolant Valve Product and Services

Table 44. Rheinmetall AG Automotive Smart Coolant Valve Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 45. Rheinmetall AG Recent Developments/Updates

Table 46. Hanon Systems Basic Information, Manufacturing Base and Competitors

Table 47. Hanon Systems Major Business

Table 48. Hanon Systems Automotive Smart Coolant Valve Product and Services

Table 49. Hanon Systems Automotive Smart Coolant Valve Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 50. Hanon Systems Recent Developments/Updates

Table 51. Zhejiang Sanhua Intelligent Controls Co., Ltd. Basic Information,

Manufacturing Base and Competitors

Table 52. Zhejiang Sanhua Intelligent Controls Co., Ltd. Major Business

Table 53. Zhejiang Sanhua Intelligent Controls Co., Ltd. Automotive Smart Coolant Valve Product and Services

Table 54. Zhejiang Sanhua Intelligent Controls Co., Ltd. Automotive Smart Coolant Valve Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 55. Zhejiang Sanhua Intelligent Controls Co., Ltd. Recent Developments/Updates

Table 56. Gates Corporation Basic Information, Manufacturing Base and Competitors

Table 57. Gates Corporation Major Business

Table 58. Gates Corporation Automotive Smart Coolant Valve Product and Services

Table 59. Gates Corporation Automotive Smart Coolant Valve Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 60. Gates Corporation Recent Developments/Updates

Table 61. THOMAS Group Basic Information, Manufacturing Base and Competitors

Table 62. THOMAS Group Major Business

Table 63. THOMAS Group Automotive Smart Coolant Valve Product and Services

Table 64. THOMAS Group Automotive Smart Coolant Valve Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 65. THOMAS Group Recent Developments/Updates

Table 66. Modine Manufacturing Company Basic Information, Manufacturing Base and Competitors

Table 67. Modine Manufacturing Company Major Business

Table 68. Modine Manufacturing Company Automotive Smart Coolant Valve Product and Services

Table 69. Modine Manufacturing Company Automotive Smart Coolant Valve Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 70. Modine Manufacturing Company Recent Developments/Updates

Table 71. Pacific Industrial Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 72. Pacific Industrial Co., Ltd. Major Business

Table 73. Pacific Industrial Co., Ltd. Automotive Smart Coolant Valve Product and Services

Table 74. Pacific Industrial Co., Ltd. Automotive Smart Coolant Valve Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 75. Pacific Industrial Co., Ltd. Recent Developments/Updates

Table 76. Ningbo Tuopu Group Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 77. Ningbo Tuopu Group Co., Ltd. Major Business

Table 78. Ningbo Tuopu Group Co., Ltd. Automotive Smart Coolant Valve Product and Services

Table 79. Ningbo Tuopu Group Co., Ltd. Automotive Smart Coolant Valve Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 80. Ningbo Tuopu Group Co., Ltd. Recent Developments/Updates

Table 81. Zhejiang Yinlun Machinery Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 82. Zhejiang Yinlun Machinery Co., Ltd. Major Business

Table 83. Zhejiang Yinlun Machinery Co., Ltd. Automotive Smart Coolant Valve Product and Services

Table 84. Zhejiang Yinlun Machinery Co., Ltd. Automotive Smart Coolant Valve Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Zhejiang Yinlun Machinery Co., Ltd. Recent Developments/Updates

Table 86. Hilite International Basic Information, Manufacturing Base and Competitors

Table 87. Hilite International Major Business

Table 88. Hilite International Automotive Smart Coolant Valve Product and Services

Table 89. Hilite International Automotive Smart Coolant Valve Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 90. Hilite International Recent Developments/Updates

Table 91. Solero Technologies Basic Information, Manufacturing Base and Competitors

Table 92. Solero Technologies Major Business

Table 93. Solero Technologies Automotive Smart Coolant Valve Product and Services

Table 94. Solero Technologies Automotive Smart Coolant Valve Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 95. Solero Technologies Recent Developments/Updates

Table 96. TLX Technologies Basic Information, Manufacturing Base and Competitors

Table 97. TLX Technologies Major Business

Table 98. TLX Technologies Automotive Smart Coolant Valve Product and Services

Table 99. TLX Technologies Automotive Smart Coolant Valve Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 100. TLX Technologies Recent Developments/Updates

Table 101. Tianbo Intelligent Technology (Shandong) Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 102. Tianbo Intelligent Technology (Shandong) Co., Ltd. Major Business

Table 103. Tianbo Intelligent Technology (Shandong) Co., Ltd. Automotive Smart Coolant Valve Product and Services

Table 104. Tianbo Intelligent Technology (Shandong) Co., Ltd. Automotive Smart Coolant Valve Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 105. Tianbo Intelligent Technology (Shandong) Co., Ltd. Recent Developments/Updates

Table 106. Sonceboz SA Basic Information, Manufacturing Base and Competitors

Table 107. Sonceboz SA Major Business

Table 108. Sonceboz SA Automotive Smart Coolant Valve Product and Services

Table 109. Sonceboz SA Automotive Smart Coolant Valve Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 110. Sonceboz SA Recent Developments/Updates

Table 111. Global Automotive Smart Coolant Valve Sales Quantity by Manufacturer (2021-2026) & (Units)

Table 112. Global Automotive Smart Coolant Valve Revenue by Manufacturer (2021-2026) & (USD Million)

Table 113. Global Automotive Smart Coolant Valve Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 114. Market Position of Manufacturers in Automotive Smart Coolant Valve, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 115. Head Office and Automotive Smart Coolant Valve Production Site of Key Manufacturer

Table 116. Automotive Smart Coolant Valve Market: Company Product Type Footprint

Table 117. Automotive Smart Coolant Valve Market: Company Product Application Footprint

Table 118. Automotive Smart Coolant Valve New Market Entrants and Barriers to Market Entry

Table 119. Automotive Smart Coolant Valve Mergers, Acquisition, Agreements, and Collaborations

Table 120. Global Automotive Smart Coolant Valve Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 121. Global Automotive Smart Coolant Valve Sales Quantity by Region (2021-2026) & (Units)

Table 122. Global Automotive Smart Coolant Valve Sales Quantity by Region
(2027-2032) & (Units)

Table 123. Global Automotive Smart Coolant Valve Consumption Value by Region
(2021-2026) & (USD Million)

Table 124. Global Automotive Smart Coolant Valve Consumption Value by Region
(2027-2032) & (USD Million)

Table 125. Global Automotive Smart Coolant Valve Average Price by Region
(2021-2026) & (US\$/Unit)

Table 126. Global Automotive Smart Coolant Valve Average Price by Region
(2027-2032) & (US\$/Unit)

Table 127. Global Automotive Smart Coolant Valve Sales Quantity by Type (2021-2026)
& (Units)

Table 128. Global Automotive Smart Coolant Valve Sales Quantity by Type (2027-2032)
& (Units)

Table 129. Global Automotive Smart Coolant Valve Consumption Value by Type
(2021-2026) & (USD Million)

Table 130. Global Automotive Smart Coolant Valve Consumption Value by Type
(2027-2032) & (USD Million)

Table 131. Global Automotive Smart Coolant Valve Average Price by Type (2021-2026)
& (US\$/Unit)

Table 132. Global Automotive Smart Coolant Valve Average Price by Type (2027-2032)
& (US\$/Unit)

Table 133. Global Automotive Smart Coolant Valve Sales Quantity by Application
(2021-2026) & (Units)

Table 134. Global Automotive Smart Coolant Valve Sales Quantity by Application
(2027-2032) & (Units)

Table 135. Global Automotive Smart Coolant Valve Consumption Value by Application
(2021-2026) & (USD Million)

Table 136. Global Automotive Smart Coolant Valve Consumption Value by Application
(2027-2032) & (USD Million)

Table 137. Global Automotive Smart Coolant Valve Average Price by Application
(2021-2026) & (US\$/Unit)

Table 138. Global Automotive Smart Coolant Valve Average Price by Application
(2027-2032) & (US\$/Unit)

Table 139. North America Automotive Smart Coolant Valve Sales Quantity by Type
(2021-2026) & (Units)

Table 140. North America Automotive Smart Coolant Valve Sales Quantity by Type
(2027-2032) & (Units)

Table 141. North America Automotive Smart Coolant Valve Sales Quantity by

Application (2021-2026) & (Units)

Table 142. North America Automotive Smart Coolant Valve Sales Quantity by Application (2027-2032) & (Units)

Table 143. North America Automotive Smart Coolant Valve Sales Quantity by Country (2021-2026) & (Units)

Table 144. North America Automotive Smart Coolant Valve Sales Quantity by Country (2027-2032) & (Units)

Table 145. North America Automotive Smart Coolant Valve Consumption Value by Country (2021-2026) & (USD Million)

Table 146. North America Automotive Smart Coolant Valve Consumption Value by Country (2027-2032) & (USD Million)

Table 147. Europe Automotive Smart Coolant Valve Sales Quantity by Type (2021-2026) & (Units)

Table 148. Europe Automotive Smart Coolant Valve Sales Quantity by Type (2027-2032) & (Units)

Table 149. Europe Automotive Smart Coolant Valve Sales Quantity by Application (2021-2026) & (Units)

Table 150. Europe Automotive Smart Coolant Valve Sales Quantity by Application (2027-2032) & (Units)

Table 151. Europe Automotive Smart Coolant Valve Sales Quantity by Country (2021-2026) & (Units)

Table 152. Europe Automotive Smart Coolant Valve Sales Quantity by Country (2027-2032) & (Units)

Table 153. Europe Automotive Smart Coolant Valve Consumption Value by Country (2021-2026) & (USD Million)

Table 154. Europe Automotive Smart Coolant Valve Consumption Value by Country (2027-2032) & (USD Million)

Table 155. Asia-Pacific Automotive Smart Coolant Valve Sales Quantity by Type (2021-2026) & (Units)

Table 156. Asia-Pacific Automotive Smart Coolant Valve Sales Quantity by Type (2027-2032) & (Units)

Table 157. Asia-Pacific Automotive Smart Coolant Valve Sales Quantity by Application (2021-2026) & (Units)

Table 158. Asia-Pacific Automotive Smart Coolant Valve Sales Quantity by Application (2027-2032) & (Units)

Table 159. Asia-Pacific Automotive Smart Coolant Valve Sales Quantity by Region (2021-2026) & (Units)

Table 160. Asia-Pacific Automotive Smart Coolant Valve Sales Quantity by Region (2027-2032) & (Units)

Table 161. Asia-Pacific Automotive Smart Coolant Valve Consumption Value by Region (2021-2026) & (USD Million)

Table 162. Asia-Pacific Automotive Smart Coolant Valve Consumption Value by Region (2027-2032) & (USD Million)

Table 163. South America Automotive Smart Coolant Valve Sales Quantity by Type (2021-2026) & (Units)

Table 164. South America Automotive Smart Coolant Valve Sales Quantity by Type (2027-2032) & (Units)

Table 165. South America Automotive Smart Coolant Valve Sales Quantity by Application (2021-2026) & (Units)

Table 166. South America Automotive Smart Coolant Valve Sales Quantity by Application (2027-2032) & (Units)

Table 167. South America Automotive Smart Coolant Valve Sales Quantity by Country (2021-2026) & (Units)

Table 168. South America Automotive Smart Coolant Valve Sales Quantity by Country (2027-2032) & (Units)

Table 169. South America Automotive Smart Coolant Valve Consumption Value by Country (2021-2026) & (USD Million)

Table 170. South America Automotive Smart Coolant Valve Consumption Value by Country (2027-2032) & (USD Million)

Table 171. Middle East & Africa Automotive Smart Coolant Valve Sales Quantity by Type (2021-2026) & (Units)

Table 172. Middle East & Africa Automotive Smart Coolant Valve Sales Quantity by Type (2027-2032) & (Units)

Table 173. Middle East & Africa Automotive Smart Coolant Valve Sales Quantity by Application (2021-2026) & (Units)

Table 174. Middle East & Africa Automotive Smart Coolant Valve Sales Quantity by Application (2027-2032) & (Units)

Table 175. Middle East & Africa Automotive Smart Coolant Valve Sales Quantity by Country (2021-2026) & (Units)

Table 176. Middle East & Africa Automotive Smart Coolant Valve Sales Quantity by Country (2027-2032) & (Units)

Table 177. Middle East & Africa Automotive Smart Coolant Valve Consumption Value by Country (2021-2026) & (USD Million)

Table 178. Middle East & Africa Automotive Smart Coolant Valve Consumption Value by Country (2027-2032) & (USD Million)

Table 179. Automotive Smart Coolant Valve Raw Material

Table 180. Key Manufacturers of Automotive Smart Coolant Valve Raw Materials

Table 181. Automotive Smart Coolant Valve Typical Distributors

Table 182. Automotive Smart Coolant Valve Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Automotive Smart Coolant Valve Picture

Figure 2. Global Automotive Smart Coolant Valve Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Automotive Smart Coolant Valve Revenue Market Share by Type in 2025

Figure 4. 2-way Coolant Valve Examples

Figure 5. 3-way Coolant Valve Examples

Figure 6. 4-way Coolant Valve Examples

Figure 7. Multi-port Coolant Valve Examples

Figure 8. Global Automotive Smart Coolant Valve Revenue by Actuation Method, (USD Million), 2021 & 2025 & 2032

Figure 9. Global Automotive Smart Coolant Valve Revenue Market Share by Actuation Method in 2025

Figure 10. Brushed DC Motor Valve Examples

Figure 11. Brushless DC Motor Valve Examples

Figure 12. Other Examples

Figure 13. Global Automotive Smart Coolant Valve Revenue by Communication and Control Interface, (USD Million), 2021 & 2025 & 2032

Figure 14. Global Automotive Smart Coolant Valve Revenue Market Share by Communication and Control Interface in 2025

Figure 15. On-off Controlled Valve Examples

Figure 16. PWM-controlled Valve Examples

Figure 17. LIN-controlled Valve Examples

Figure 18. CAN-controlled Valve Examples

Figure 19. Other Examples

Figure 20. Global Automotive Smart Coolant Valve Revenue by Control Function, (USD Million), 2021 & 2025 & 2032

Figure 21. Global Automotive Smart Coolant Valve Revenue Market Share by Control Function in 2025

Figure 22. Flow Switching Control Examples

Figure 23. Flow Distribution Control Examples

Figure 24. Other Examples

Figure 25. Global Automotive Smart Coolant Valve Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 26. Global Automotive Smart Coolant Valve Revenue Market Share by

Application in 2025

Figure 27. E-drive and Power Electronics Cooling Examples

Figure 28. Cabin Heating and HVAC Coolant Loop Examples

Figure 29. Engine and Hybrid Powertrain Cooling Examples

Figure 30. Other Thermal Loops Examples

Figure 31. Global Automotive Smart Coolant Valve Consumption Value, (USD Million):
2021 & 2025 & 2032

Figure 32. Global Automotive Smart Coolant Valve Consumption Value and Forecast
(2021-2032) & (USD Million)

Figure 33. Global Automotive Smart Coolant Valve Sales Quantity (2021-2032) &
(Units)

Figure 34. Global Automotive Smart Coolant Valve Price (2021-2032) & (US\$/Unit)

Figure 35. Global Automotive Smart Coolant Valve Sales Quantity Market Share by
Manufacturer in 2025

Figure 36. Global Automotive Smart Coolant Valve Revenue Market Share by
Manufacturer in 2025

Figure 37. Producer Shipments of Automotive Smart Coolant Valve by Manufacturer
Sales (\$MM) and Market Share (%): 2025

Figure 38. Top 3 Automotive Smart Coolant Valve Manufacturer (Revenue) Market
Share in 2025

Figure 39. Top 6 Automotive Smart Coolant Valve Manufacturer (Revenue) Market
Share in 2025

Figure 40. Global Automotive Smart Coolant Valve Sales Quantity Market Share by
Region (2021-2032)

Figure 41. Global Automotive Smart Coolant Valve Consumption Value Market Share
by Region (2021-2032)

Figure 42. North America Automotive Smart Coolant Valve Consumption Value
(2021-2032) & (USD Million)

Figure 43. Europe Automotive Smart Coolant Valve Consumption Value (2021-2032) &
(USD Million)

Figure 44. Asia-Pacific Automotive Smart Coolant Valve Consumption Value
(2021-2032) & (USD Million)

Figure 45. South America Automotive Smart Coolant Valve Consumption Value
(2021-2032) & (USD Million)

Figure 46. Middle East & Africa Automotive Smart Coolant Valve Consumption Value
(2021-2032) & (USD Million)

Figure 47. Global Automotive Smart Coolant Valve Sales Quantity Market Share by
Type (2021-2032)

Figure 48. Global Automotive Smart Coolant Valve Consumption Value Market Share

by Type (2021-2032)

Figure 49. Global Automotive Smart Coolant Valve Average Price by Type (2021-2032) & (US\$/Unit)

Figure 50. Global Automotive Smart Coolant Valve Sales Quantity Market Share by Application (2021-2032)

Figure 51. Global Automotive Smart Coolant Valve Revenue Market Share by Application (2021-2032)

Figure 52. Global Automotive Smart Coolant Valve Average Price by Application (2021-2032) & (US\$/Unit)

Figure 53. North America Automotive Smart Coolant Valve Sales Quantity Market Share by Type (2021-2032)

Figure 54. North America Automotive Smart Coolant Valve Sales Quantity Market Share by Application (2021-2032)

Figure 55. North America Automotive Smart Coolant Valve Sales Quantity Market Share by Country (2021-2032)

Figure 56. North America Automotive Smart Coolant Valve Consumption Value Market Share by Country (2021-2032)

Figure 57. United States Automotive Smart Coolant Valve Consumption Value (2021-2032) & (USD Million)

Figure 58. Canada Automotive Smart Coolant Valve Consumption Value (2021-2032) & (USD Million)

Figure 59. Mexico Automotive Smart Coolant Valve Consumption Value (2021-2032) & (USD Million)

Figure 60. Europe Automotive Smart Coolant Valve Sales Quantity Market Share by Type (2021-2032)

Figure 61. Europe Automotive Smart Coolant Valve Sales Quantity Market Share by Application (2021-2032)

Figure 62. Europe Automotive Smart Coolant Valve Sales Quantity Market Share by Country (2021-2032)

Figure 63. Europe Automotive Smart Coolant Valve Consumption Value Market Share by Country (2021-2032)

Figure 64. Germany Automotive Smart Coolant Valve Consumption Value (2021-2032) & (USD Million)

Figure 65. France Automotive Smart Coolant Valve Consumption Value (2021-2032) & (USD Million)

Figure 66. United Kingdom Automotive Smart Coolant Valve Consumption Value (2021-2032) & (USD Million)

Figure 67. Russia Automotive Smart Coolant Valve Consumption Value (2021-2032) & (USD Million)

Figure 68. Italy Automotive Smart Coolant Valve Consumption Value (2021-2032) & (USD Million)

Figure 69. Asia-Pacific Automotive Smart Coolant Valve Sales Quantity Market Share by Type (2021-2032)

Figure 70. Asia-Pacific Automotive Smart Coolant Valve Sales Quantity Market Share by Application (2021-2032)

Figure 71. Asia-Pacific Automotive Smart Coolant Valve Sales Quantity Market Share by Region (2021-2032)

Figure 72. Asia-Pacific Automotive Smart Coolant Valve Consumption Value Market Share by Region (2021-2032)

Figure 73. China Automotive Smart Coolant Valve Consumption Value (2021-2032) & (USD Million)

Figure 74. Japan Automotive Smart Coolant Valve Consumption Value (2021-2032) & (USD Million)

Figure 75. South Korea Automotive Smart Coolant Valve Consumption Value (2021-2032) & (USD Million)

Figure 76. India Automotive Smart Coolant Valve Consumption Value (2021-2032) & (USD Million)

Figure 77. Southeast Asia Automotive Smart Coolant Valve Consumption Value (2021-2032) & (USD Million)

Figure 78. Australia Automotive Smart Coolant Valve Consumption Value (2021-2032) & (USD Million)

Figure 79. South America Automotive Smart Coolant Valve Sales Quantity Market Share by Type (2021-2032)

Figure 80. South America Automotive Smart Coolant Valve Sales Quantity Market Share by Application (2021-2032)

Figure 81. South America Automotive Smart Coolant Valve Sales Quantity Market Share by Country (2021-2032)

Figure 82. South America Automotive Smart Coolant Valve Consumption Value Market Share by Country (2021-2032)

Figure 83. Brazil Automotive Smart Coolant Valve Consumption Value (2021-2032) & (USD Million)

Figure 84. Argentina Automotive Smart Coolant Valve Consumption Value (2021-2032) & (USD Million)

Figure 85. Middle East & Africa Automotive Smart Coolant Valve Sales Quantity Market Share by Type (2021-2032)

Figure 86. Middle East & Africa Automotive Smart Coolant Valve Sales Quantity Market Share by Application (2021-2032)

Figure 87. Middle East & Africa Automotive Smart Coolant Valve Sales Quantity Market

Share by Country (2021-2032)

Figure 88. Middle East & Africa Automotive Smart Coolant Valve Consumption Value
Market Share by Country (2021-2032)

Figure 89. Turkey Automotive Smart Coolant Valve Consumption Value (2021-2032) &
(USD Million)

Figure 90. Egypt Automotive Smart Coolant Valve Consumption Value (2021-2032) &
(USD Million)

Figure 91. Saudi Arabia Automotive Smart Coolant Valve Consumption Value
(2021-2032) & (USD Million)

Figure 92. South Africa Automotive Smart Coolant Valve Consumption Value
(2021-2032) & (USD Million)

Figure 93. Automotive Smart Coolant Valve Market Drivers

Figure 94. Automotive Smart Coolant Valve Market Restraints

Figure 95. Automotive Smart Coolant Valve Market Trends

Figure 96. Porters Five Forces Analysis

Figure 97. Manufacturing Cost Structure Analysis of Automotive Smart Coolant Valve in
2025

Figure 98. Manufacturing Process Analysis of Automotive Smart Coolant Valve

Figure 99. Automotive Smart Coolant Valve Industrial Chain

Figure 100. Sales Channel: Direct to End-User vs Distributors

Figure 101. Direct Channel Pros & Cons

Figure 102. Indirect Channel Pros & Cons

Figure 103. Methodology

Figure 104. Research Process and Data Source

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