

# **Automotive Proportioning Valve Market Forecasts to 2030 – Global Analysis By Product (Master Cylinder-Mounted, Load Sensing, Combination Valve-Mounted and Other Products), Type, Vehicle Type, Sale Channels, Application and By Geography**

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## **Abstracts**

According to Statistics MRC, the Global Automotive Proportioning Valve Market is accounted for \$252.66 million in 2024 and is expected to reach \$548.77 million by 2030 growing at a CAGR of 13.8% during the forecast period. An automotive proportioning valve is a crucial component in a vehicle's braking system that ensures balanced brake pressure distribution between the front and rear brakes. It helps to optimize braking performance by adjusting the pressure applied to the rear brakes, preventing premature lock-up or loss of traction, especially in vehicles with rear drum brakes. The valve is typically used in vehicles with disc brakes in the front and drum brakes in the rear, providing enhanced stability, control, and safety during braking, particularly under varying load conditions.

Market Dynamics:

Driver:

Increasing demand for safety features

Proportioning valves are critical components in braking systems, ensuring that the front and rear brakes have equal brake pressure for maximum safety and efficiency. As consumers' awareness of car safety grows, automakers prioritise sophisticated braking systems. Furthermore, the installation of stronger global safety rules has compelled manufacturers to include proportioning valves in new car models. Proportioning valves

help to shorten braking distances and lower the chance of skidding, which is essential for accident prevention. As more vehicles, particularly electric and self-driving ones, enter the market, the demand for precision braking control increases. As a result, the automotive proportioning valve market is predicted to grow steadily as safety regulations advance and consumer tastes shift towards safer automobiles.

Restraint:

#### Alternative braking technologies

Alternative braking technologies, such as electronic braking systems (EBS) and regenerative braking decrease the need for traditional hydraulic systems. These new technologies improve performance and energy efficiency, minimising the need for traditional valve solutions. As automakers shift to electric and hybrid vehicles, the use of alternative braking technologies restricts the scope of proportioning valve applications. Furthermore, the rising use of self-driving vehicles, which rely heavily on electronic systems, reduces the need for mechanical proportioning valves. Traditional valve makers confront new problems as modern vehicles prioritise lightweight materials and compact design. As a result of these technological advancements, the automotive proportioning valves market is confined.

Opportunity:

#### Automotive innovations and electric proportioning valves

Automotive innovations, especially in electric systems focus on improving vehicle safety, efficiency, and environmental sustainability. Electric proportioning valves offer precise control over brake force distribution, enhancing vehicle stability and performance. With electric valves, automakers can achieve better integration with advanced braking systems like Electronic Stability Control (ESC). This has led to higher demand for such valves in both conventional and electric vehicles. As the automotive industry transitions towards greener technologies, the need for efficient braking systems and proportional valves continues to rise.

Threat:

#### Raw material price fluctuations

Automotive manufacturers often face challenges in maintaining consistent pricing due to

volatile raw material costs, such as metals and polymers. This uncertainty leads to unpredictable cost structures, making it difficult to set stable product prices. The rise in material costs can squeeze profit margins, forcing companies to either absorb the costs or pass them onto consumers. In turn, this affects consumer demand for vehicles equipped with proportioning valves. Additionally, fluctuations disrupt supply chain stability, leading to delays in production. As a result, companies may struggle to meet market demand while maintaining profitability and quality.

### Covid-19 Impact

The COVID-19 pandemic significantly impacted the automotive proportioning valve market, with disruptions in manufacturing, supply chains, and labor shortages. During lockdowns, production facilities were temporarily shut down, leading to delays in the supply of key components and a decline in vehicle manufacturing. As a result, demand for automotive parts, including proportioning valves, decreased. However, the market showed signs of recovery as economies reopened, and automotive production resumed. The increasing demand for electric vehicles and advancements in safety technologies, like electronic brake systems, are expected to drive future growth in the automotive proportioning valve market post-pandemic.

The passenger car segment is expected to be the largest during the forecast period

The passenger car segment is expected to account for the largest market share during the forecast period, due to increased demand for safety and performance features in vehicles. As consumer expectations for smoother rides and enhanced braking systems rise, automotive manufacturers are increasingly incorporating proportioning valves. These valves regulate brake pressure, ensuring optimal performance, particularly in rear brakes, which improves vehicle safety. The growing focus on vehicle safety standards and regulatory requirements further boosts the demand for these valves in the passenger car sector. Additionally, the rise in production of electric vehicles, which require advanced braking systems, contributes to the expansion of this market.

The braking systems segment is expected to have the highest CAGR during the forecast period

The braking systems segment is anticipated to witness the highest CAGR during the forecast period, by ensuring effective distribution of braking force. Proportioning valves help maintain balance and stability during braking by controlling pressure between the front and rear brakes. As automotive safety standards become more stringent, the

demand for efficient braking systems rises. Proportioning valves are crucial in preventing rear-wheel lockup, especially in vehicles with advanced braking technologies. Increasing adoption of anti-lock braking systems (ABS) and electronic stability control (ESC) enhances the market's prospects. Additionally, the growing trend toward electric vehicles (EVs) and hybrid vehicles further accelerates the need for high-performance braking components.

Region with largest share:

Asia Pacific is expected to hold the largest market share during the forecast period due to the increasing demand for advanced braking systems in vehicles. This market is driven by the rising production of automobiles in countries like China, India, and Japan. Manufacturers in this region are focusing on producing cost-effective; high-performance proportioning valves to meet the needs of both OEMs and aftermarket segments. The market is also supported by the growing automotive industry, which is experiencing strong expansion and technological advancements. Additionally, the increasing adoption of electric vehicles (EVs) is contributing to the demand for efficient braking components, including proportioning valves. With significant investments in infrastructure and automotive R&D, the Asia Pacific market is expected to continue its growth trajectory in the coming years.

Region with highest CAGR:

North America is expected to have the highest CAGR over the forecast period, owing to rising demand for sophisticated braking systems in automobiles. These valves manage the distribution of brake force between the front and rear wheels, guaranteeing optimal break performance. The market's growth is being driven by increased automotive safety requirements and a focus on improving car safety systems. Furthermore, North America's large automobile manufacturing base, combined with technology improvements, is driving increasing demand for new braking components. Furthermore, the continuous trend towards lightweight and fuel-efficient automobiles is likely to enhance the use of proportioning valves in the region's automotive industry.

Key players in the market

Some of the key players profiled in the Automotive Proportioning Valve Market include Bendix Commercial Vehicle Systems LLC, Robert Bosch GmbH, Knorr-Bremse AG, Wabco Holdings Inc., TRW Automotive, Denso Corporation, Continental AG, Valeo SA, Aisin Seiki Co., Ltd., Delphi Technologies, Hella GmbH & Co. KGaA, FTE automotive

GmbH, Mando Corporation, Tenneco Inc., Eaton Corporation, Nissin Kogyo Co., Ltd., Honeywell International Inc., Brembo S.p.A., ITT Inc. and Autoliv Inc.

#### Key Developments:

In September 2024, Bosch plans to reorganize its commercial vehicle business within its Mobility sector. This restructuring will focus on system development and product management for trucks and off-highway applications, streamlining operations to enhance efficiency.

In September 2023, Bosch completed the acquisition of TSI Semiconductors, a manufacturer of silicon carbide (SiC) power devices, enhancing its capabilities in semiconductor technology.

#### Products Covered:

Master Cylinder-Mounted

Load Sensing

Combination Valve-Mounted

Other Products

#### Types Covered:

Fixed Proportioning Valve

Variable Proportioning Valve

Electronic Proportioning Valve

Mechanical Proportioning Valve

Other Types

#### Vehicle Types Covered:

Conventional Vehicles

Passenger Car

Compact Cars

Mid-size cars

SUVs

Luxury Vehicles

Light Commercial Vehicles

Heavy Commercial Vehicles

Electric Vehicles

Other Vehicle Types

Sale Channels Covered:

OEM

Aftermarket

Applications Covered:

Braking Systems

Suspension Systems

Traction Control Systems

Other Applications

**Regions Covered:****North America**

US

Canada

Mexico

**Europe**

Germany

UK

Italy

France

Spain

Rest of Europe

**Asia Pacific**

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

## South America

Argentina

Brazil

Chile

Rest of South America

## Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free

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customization options:

#### Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

#### Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

#### Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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