

# **Air Inject Check Valve Market Forecasts to 2030 – Global Analysis By Product Type (Air Injection Check Valve and Air Injection Control Valve), Material Type, Application, End User and by Geography**

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## **Abstracts**

According to Statistics MRC, the Global Air Inject Check Valve Market is accounted for \$110.29 billion in 2024 and is expected to reach \$177.46 billion by 2030 growing at a CAGR of 8.25% during the forecast period. An air inject check valve is a critical component in a vehicle's secondary air injection system, designed to reduce harmful emissions by introducing fresh air into the exhaust stream during cold engine start-up. This valve keeps exhaust gases from returning to the air injection system while permitting air to flow only in one direction, from the air pump to the exhaust manifold or catalytic converter. Moreover, the air inject check valve, which is usually constructed of sturdy materials to resist high temperatures and corrosive gases, is essential for adhering to emission standards, guaranteeing effective engine operation, and shielding other air injection system parts from backflow-related damage.

According to the U.S. Environmental Protection Agency (EPA), the Tier 3 standards require a fleet-wide average of 0.03 grams/mile for NO<sub>x</sub> + NMOG emissions by 2025. This has driven the adoption of advanced emission control technologies, such as secondary air injection systems using air inject check valves.

Market Dynamics:

Driver:

Growing concern over air pollution

The detrimental effects of air pollution on the environment and human health have been gradually coming to the public's attention. Because of this awareness, governments and automakers are under a lot of pressure to embrace and advance environmentally friendly vehicle technologies. One way to reduce tailpipe emissions is by using secondary air injection systems, which use air injection check valves. This is especially important during cold starts, when engines release the most pollutants. Additionally, governments are providing tax breaks and subsidies for automobiles with sophisticated emission control systems, which promote the use of parts like air injection check valves.

Restraint:

Exorbitant expenses for production and maintenance

Secondary air injection systems depend heavily on air injection check valves, which need to be made with extreme precision and robust materials to survive demanding operating conditions. These valves are frequently made using sophisticated materials like ceramic coatings, high-performance polymers, and stainless steel, which raises the cost of production. Due to their incorporation into intricate emission control systems, these valves can also be expensive to maintain and repair. Furthermore, this may deter consumers in price-sensitive markets from choosing cars with sophisticated emission control systems.

Opportunity:

Advancements in air injection system technology

Manufacturers have a lot of room to push the boundaries of air injection check valve design and material innovation as long as automakers keep investing in more environmentally friendly and efficient emission control technologies. An opportunity to meet the demand for more dependable components is presented by the development of check valves that are stronger, lighter, and more effective using cutting-edge materials like titanium alloys, high-performance polymers, and ceramics. Moreover, smart technology developments like adding sensors and diagnostic features to air injection check valves may improve their functionality and lower maintenance requirements.

Threat:

Increasing competition from alternative methods of emission control

Alternative solutions that directly compete with air injection check valves have been developed as a result of technological advancements in emission control systems. One such remedy is the three-way catalytic converter, which is frequently found in cars that run on gasoline and has several uses, such as lowering hydrocarbons (HC), carbon monoxide (CO), and nitrogen oxides (NO<sub>x</sub>). Additionally, secondary air injection systems and related parts are becoming less necessary as automakers embrace more integrated and effective emission control technologies, like these sophisticated catalytic converters.

#### Covid-19 Impact:

The global supply chains were disrupted by the COVID-19 pandemic, which caused delays in the production and delivery of essential components, which had a substantial effect on the air injection check valve market. Because of labor shortages, factory closures, and lockdowns, the automotive industry's production slowed, which decreased demand for air injection check valves—which are crucial for vehicles' emission control systems. Furthermore, the pandemic's economic uncertainty also resulted in a drop in car sales, which further impacted the market for emission control components. Notwithstanding the early setbacks brought on by the pandemic, the market's long-term growth was bolstered by a renewed emphasis on emissions regulations as the automotive sector steadily recovered.

The Air Injection Check Valve segment is expected to be the largest during the forecast period

The Air Injection Check Valve segment is expected to hold the largest share in the Air Injection Check Valve market. By controlling the airflow into the exhaust system, this part helps lower harmful emissions and is essential to automotive emission control systems. It is frequently utilized in automobiles with internal combustion engines (ICEs) in order to satisfy air quality regulations. Growing environmental regulations requiring manufacturers to install emission-controlling systems are the main factor driving demand for this market. Moreover, the market for air injection check valves is further supported by the increased emphasis on vehicle performance, fuel economy, and adherence to more stringent emission regulations.

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

Over the course of the forecast period, the plastic segment of the air injection check

valve market is anticipated to have the highest CAGR. Because plastic parts contribute to a vehicle's overall weight reduction, which improves fuel economy and lowers emissions, the automotive industry's growing need for lightweight materials is the primary driver of this growth. Furthermore, plastic has benefits like affordability, ease of molding, and resistance to corrosion, which makes it a desirable option for producers. The automotive industry's continued emphasis on cost reduction and adherence to strict emission standards is anticipated to increase demand for plastic-based air injection check valves, which will fuel the market's explosive expansion.

Region with largest share:

The market for air injection check valves is anticipated to be dominated by the North American region. This is mostly because of the widespread presence of automakers and the strict emission laws in nations like the US and Canada. With regulatory agencies like the Environmental Protection Agency (EPA) enforcing stringent emission standards, North America has emerged as a major center for automotive innovation. This has increased demand for sophisticated emission control components, such as air injection check valves. Moreover, the market in this region is further strengthened by the increasing adoption of technologies aimed at lowering vehicle emissions and enhancing fuel efficiency, which positions it as the leading player in the global market.

Region with highest CAGR:

The air injection check valve market is anticipated to grow at the highest CAGR in the Asia-Pacific region. This growth is ascribed to the automotive industry's explosive growth in nations like China, India, and Japan, which has been fueled by rising environmental consciousness, tighter emission regulations, and increased vehicle production. The need for air injection check valves to meet these regulations is expected to increase as these countries continue to urbanize and impose stricter emission standards. Furthermore, the market's growth in the Asia-Pacific region is anticipated to be fueled in the upcoming years by the region's growing emphasis on fuel efficiency as well as the growing adoption of cutting-edge automotive technologies.

Key players in the market

Some of the key players in Air Inject Check Valve market include Catalyst Retail Pvt. Ltd., ACDelco (General Motors Company), GenuineXL Inc, Dorman Products (Ford Motor Company), Acura (Honda Motor Company, Ltd.), Tomco Inc, Pierburg (Rheinmetall Automotive AG), Motorcraft Inc, Smart Parts Online Pvt. Ltd., AutoTrust

Platinum, Kobalt Inc, AutoKartz Internet (P) Ltd. and GISON Machinery Inc.

#### Key Developments:

In May 2024, Dorman Products, Inc. is announcing the release of hundreds of new aftermarket automotive components and assemblies. The new products add to an expansive catalog of more than 120,000 SKUs, a depth and diversity of coverage offering millions of new sales and repair opportunities for customers throughout North America.

In December 2022, Rheinmetall AG has announced that its subsidiary Pierburg has landed a EUR 300 million contract for the supply of exhaust gas recirculation (EGR) modules to a popular automaker. The new order strengthens the Group's market position in the highly competitive emissions reduction market.

In August 2020, TomCo Energy plc, the US operating oil development group focused on using innovative technology to unlock unconventional hydrocarbon resources, is pleased to announce that Greenfield Energy LLC, the Company's recently formed 50/50 joint venture with Valkor LLC, has entered into a commercial trial agreement with Quadrise Fuels International plc.

#### Product Types Covered:

Air Injection Check Valve

Air Injection Control Valve

#### Material Types Covered:

Stainless Steel

Aluminum

Plastic

Other Material Types

**Applications Covered:**

Automotive

Industrial

Marine

Aerospace

Other Applications

**End Users Covered:**

OEMs (Original Equipment Manufacturers)

Aftermarket

**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 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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