+357 96 030922
info@marketpublishers.com

Aerospace Valves Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Valve Type (Butterfly Valve, Ball Valve, Rotary Valve, Gate Valve, Others), By Aircraft Type (Commercial Aviation, Business and General Aviation, Military Aviation, Others), By Application (Fuel System, Hydraulic System, Pneumatic System, Others), By Region & Competition, 2021-2031F

https://marketpublishers.com/r/A1D2E0B2A376EN.html
Date: January 2026
Pages: 181
Price: US$ 4,500.00 (Single User License)
ID: A1D2E0B2A376EN

Abstracts

The Global Aerospace Valves Market is projected to expand from USD 13.41 Billion in 2025 to USD 17.01 Billion by 2031, registering a CAGR of 4.04%. Aerospace valves are specialized electromechanical or mechanical components engineered to control the direction, pressure, and flow of gases and fluids within essential aircraft infrastructures, including pneumatic, hydraulic, and fuel systems. The market is primarily driven by accelerating commercial aircraft production rates and the necessity for fleet modernization to meet rising travel demands. Furthermore, increasing global defense budgets are supporting the acquisition of military aircraft, while strict efficiency regulations are encouraging the use of lightweight valve materials to decrease overall aircraft weight. According to the International Air Transport Association, global airline revenues were forecast to hit 996 billion dollars in 2024, indicating a strong industry recovery and increased funding for equipment.

A major obstacle hindering market growth is the ongoing volatility in the global supply chain, which interrupts raw material availability and slows component manufacturing. These logistical hurdles lengthen lead times for aircraft deliveries and make it difficult for suppliers to clear order backlogs. Such disruptions generate uncertainty in production

+357 96 030922
info@marketpublishers.com

timelines and escalate operational expenses, presenting a substantial risk to the steady expansion of the aerospace valve sector.

Market Driver

The expansion of the global commercial aircraft fleet is fundamentally reshaping the aerospace valve sector as airlines aggressively modernize their inventories to meet the resurgence in travel demand. This growth requires substantial volumes of precision valves for environmental control systems, hydraulic actuation, and fuel regulation in next-generation airframes. The drive for operational efficiency further urges manufacturers to incorporate lighter, more durable valve components to comply with fuel-saving mandates. Illustrating this production momentum, Airbus reported in January 2025 via its 'Airbus Commercial Aircraft Orders and Deliveries 2024' release that it delivered 766 commercial aircraft globally in 2024. This surge in deliveries directly drives the procurement of OEM valve suites needed for each new unit. Additionally, market demand remains strong; according to the International Air Transport Association, in 2025, total global passenger traffic for 2024 increased by 10.4% year-over-year, highlighting the continued pressure on carriers to expand capacity and maintenance stocks.

Simultaneously, rising military aviation expenditure and defense procurement serve as a critical parallel driver, fueled by increasing geopolitical instability and the strategic need for air superiority. Defense departments worldwide are directing capital toward the development of advanced fighter jets, transport aircraft, and unmanned aerial vehicles, all of which require specialized, high-tolerance valves built to withstand extreme operating conditions. These components are essential for coolant flow, weapon release systems, and thrust vectoring in high-performance engines. According to the Stockholm International Peace Research Institute's 'Trends in World Military Expenditure, 2024' fact sheet from April 2025, global military spending grew by 9.4% to reach an estimated $2718 billion. This historic increase in defense budgets ensures a continuous stream of contracts for valve manufacturers supporting military specifications, shielding the market from potential cyclical fluctuations in the commercial sector.

Market Challenge

Persistent volatility in the global supply chain serves as a significant restraint on the aerospace valves market by disrupting raw material availability and delaying component manufacturing. This instability causes logistical bottlenecks that extend lead times, making it difficult for valve manufacturers to adhere to rigorous production schedules.

+357 96 030922
info@marketpublishers.com

As suppliers struggle to secure necessary inputs, the delay in producing critical valve components halts the assembly of broader aircraft systems, particularly within hydraulic and fuel infrastructures. Consequently, this inability to meet delivery deadlines elevates operational costs and prevents the industry from efficiently reducing its order backlog.

These constraints effectively limit the immediate market potential for new components by slowing down airframe completion rates. According to the International Air Transport Association in June 2024, the industry expected to receive 1,583 new aircraft deliveries for the year, a figure restricted by continuing supply chain and production issues. This limitation on aircraft output directly lowers the volume of new valves required for installation, thereby hampering revenue growth for manufacturers despite the high underlying market demand for travel.

Market Trends

As the industry advances toward the 'More Electric Aircraft' (MEA) concept, there is a clear trend replacing traditional hydraulic valve actuation with electro-mechanical systems. These valves provide superior precision and reliability while eliminating the risk of hydraulic fluid leaks. This technological shift is demonstrated by major suppliers expanding their production capabilities for electric architectures to meet efficiency requirements. For instance, according to AviTrader in June 2025, in the 'Collins Aerospace reinforces aircraft electrification strategy' report, Collins Aerospace inaugurated a new production line in France for electric thrust reverser actuation systems, noting that these units reduce system weight by 15?20% compared to hydraulic versions. This transition improves operational performance and simplifies maintenance by removing heavy hydraulic infrastructures.

Manufacturers are also utilizing additive manufacturing to create complex, unibody valve geometries that were previously impossible to cast. This adoption minimizes material waste and lowers production lead times while enabling significant weight reduction without sacrificing structural integrity. Leading aerospace entities are increasingly investing to industrialize this technology for flight-critical components. According to GKN Aerospace in a September 2025 press release titled 'GKN Aerospace accelerates additive fabrication ramp-up,' the company expanded its Connecticut facility to support serial production of additive parts, building on a 50 million dollar investment made in 2024. Such advancements allow for the creation of lighter, more durable fluid control systems that directly contribute to the sector's sustainability goals.

+357 96 030922
info@marketpublishers.com

Key Market Players

Eaton Corporation plc

Safran S.A.

Woodward Inc.

Triumph Group, Inc.

Parker-Hannifin Corporation

Moog Inc.

Crissair, Inc.

Liebherr-International Deutschland GmbH

Investis Limited

Sitec Aerospace GmbH

Report Scope

In this report, the Global Aerospace Valves Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Aerospace Valves Market, By Valve Type

Butterfly Valve

Ball Valve

Rotary Valve

Gate Valve

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Aerospace Valves Market.

+357 96 030922
info@marketpublishers.com

Available Customizations:

Global Aerospace Valves Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

6. NORTH AMERICA AEROSPACE VALVES MARKET OUTLOOK

7. EUROPE AEROSPACE VALVES MARKET OUTLOOK

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

8. ASIA PACIFIC AEROSPACE VALVES MARKET OUTLOOK

+357 96 030922
info@marketpublishers.com

9. MIDDLE EAST & AFRICA AEROSPACE VALVES MARKET OUTLOOK

+357 96 030922
info@marketpublishers.com

10. SOUTH AMERICA AEROSPACE VALVES MARKET OUTLOOK

11. MARKET DYNAMICS

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Aerospace Valves Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Valve Type (Butterfly Valve, Ball Valve, Rotary Valve, Gate Valve, Others), By Aircraft Type (Commercial Aviation, Business and General Aviation, Military Aviation, Others), By Application (Fuel System, Hydraulic System, Pneumatic System, Others), By Region & Competition, 2021-2031F

Product link: https://marketpublishers.com/r/A1D2E0B2A376EN.html

Price: US$ 4,500.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/A1D2E0B2A376EN.html