

Global Pilot-operated Aircraft Solenoid Operated Valves Market Growth 2026-2032

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Abstracts

The global Pilot-operated Aircraft Solenoid Operated Valves market size is predicted to grow from US\$ 211 million in 2025 to US\$ 357 million in 2032; it is expected to grow at a CAGR of 7.2% from 2026 to 2032.

A pilot-operated aircraft solenoid valve is an electro-hydraulic/pneumatic control component featuring a two-stage 'pilot valve + main valve' structure. It uses low-power electromagnetic force to actuate the pilot spool, which then utilizes medium pressure differential to drive the main valve for large-flow switching or shut-off. This design enables fast, precise control of high-pressure, high-flow fluids (fuel, hydraulic oil, air) under low power consumption, with typical response times below 50 milliseconds. These valves are critical in aircraft environmental control systems, fuel management, landing gear actuation, engine thermal management, and anti-icing systems, requiring operating temperature ranges from -55°C to +150°C and compliance with stringent aviation standards for vibration resistance, electromagnetic compatibility, and sealing integrity. In 2025, the global market size for Pilot-operated Aircraft Solenoid Valves is approximately US 215.8 million, with an annual sales volume of about 1.82 million units. The projected CAGR for the next five years is 6.9%, with a single production line capacity of 120,000-180,000 units per year, and the industry's gross margin is generally around 32%.

United States market for Pilot-operated Aircraft Solenoid Operated Valves is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Pilot-operated Aircraft Solenoid Operated Valves is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026

through 2032.

Europe market for Pilot-operated Aircraft Solenoid Operated Valves is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Pilot-operated Aircraft Solenoid Operated Valves players cover Emerson, Magnet Schultz, Westport Fuel Systems, OMB SALERI, Bitron, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Pilot-operated Aircraft Solenoid Operated Valves Industry Forecast" looks at past sales and reviews total world Pilot-operated Aircraft Solenoid Operated Valves sales in 2025, providing a comprehensive analysis by region and market sector of projected Pilot-operated Aircraft Solenoid Operated Valves sales for 2026 through 2032. With Pilot-operated Aircraft Solenoid Operated Valves sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Pilot-operated Aircraft Solenoid Operated Valves industry.

This Insight Report provides a comprehensive analysis of the global Pilot-operated Aircraft Solenoid Operated Valves landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Pilot-operated Aircraft Solenoid Operated Valves portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Pilot-operated Aircraft Solenoid Operated Valves market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Pilot-operated Aircraft Solenoid Operated Valves and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Pilot-operated Aircraft Solenoid Operated Valves.

This report presents a comprehensive overview, market shares, and growth opportunities of Pilot-operated Aircraft Solenoid Operated Valves market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Normally Closed (NC) Solenoid Valve

Normally Open (NO) Solenoid Valve

Segmentation by Ambient Temperature Grade:

-10~80°C

>80°C

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