

Global Pilot-operated Air Solenoid Valve Market Growth 2026-2032

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Abstracts

The global Pilot-operated Air Solenoid Valve market size is predicted to grow from US\$ 795 million in 2025 to US\$ 1287 million in 2032; it is expected to grow at a CAGR of 7.5% from 2026 to 2032.

A pilot-operated air solenoid valve is a 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 the pressure differential of compressed air itself to drive the main valve for large-flow switching or shut-off. This design enables fast, precise control of high-pressure (1.6-6.4 MPa), large-bore (DN15-DN150) air flow with low power consumption (typically below 5W) and response times typically ranging from 50 to 200 milliseconds. These valves are widely used in industrial automation lines, compressor control systems, pneumatic actuators, filling equipment, and HVAC piping systems, requiring dust and water protection ratings up to IP65 to meet demanding operating conditions. In 2025, the global market size for Pilot-operated Air Solenoid Valves is approximately US\$ 812.5 million, with an annual sales volume of about 285 million units. The projected CAGR for the next five years is 7.28%. In 2032, the market size is projected to reach US\$ 1287.5 million, with an annual sales volume of about 285 million units. The projected CAGR for the next five years is 7.22%. The gross margin is generally around 28%.

United States market for Pilot-operated Air Solenoid Valve 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 Air Solenoid Valve 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 Air Solenoid Valve 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 Air Solenoid Valve players cover Emerson, Magnet Schultze, 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 Air Solenoid Valve Industry Forecast" looks at past sales and reviews total world Pilot-operated Air Solenoid Valve sales in 2025, providing a comprehensive analysis by region and market sector of projected Pilot-operated Air Solenoid Valve sales for 2026 through 2032. With Pilot-operated Air Solenoid Valve sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Pilot-operated Air Solenoid Valve industry.

This Insight Report provides a comprehensive analysis of the global Pilot-operated Air Solenoid Valve 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 Air Solenoid Valve portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Pilot-operated Air Solenoid Valve market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Pilot-operated Air Solenoid Valve 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 Air Solenoid Valve.

This report presents a comprehensive overview, market shares, and growth opportunities of Pilot-operated Air Solenoid Valve 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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