

Global Pilot-operated Air Solenoid Valve Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Pilot-operated Air Solenoid Valve market size is expected to reach \$ 1321 million by 2032, rising at a market growth of 7.0% CAGR during the forecast period (2026-2032).

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%. The projected CAGR for the next five years is 7.228.5 per unit, with a single production line capacity of 2-3 million units per year, and the industry's gross margin is generally around 28%.

This report studies the global Pilot-operated Air Solenoid Valve production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Pilot-operated Air Solenoid Valve and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends

and competition, as well as details the characteristics of Pilot-operated Air Solenoid Valve that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Pilot-operated Air Solenoid Valve total production and demand, 2021-2032, (Units)

Global Pilot-operated Air Solenoid Valve total production value, 2021-2032, (USD Million)

Global Pilot-operated Air Solenoid Valve production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Pilot-operated Air Solenoid Valve consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Pilot-operated Air Solenoid Valve domestic production, consumption, key domestic manufacturers and share

Global Pilot-operated Air Solenoid Valve production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Pilot-operated Air Solenoid Valve production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Pilot-operated Air Solenoid Valve production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Pilot-operated Air Solenoid Valve market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Emerson, Magnet Schultz, Westport Fuel Systems, OMB SALERI, Bitron, ETO GRUPPE, IMI Norgren, B?rkert, EKK Eagle, Hamai Industries, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Pilot-operated Air Solenoid Valve market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by

year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Pilot-operated Air Solenoid Valve Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Pilot-operated Air Solenoid Valve Market, Segmentation by Type:

Normally Closed (NC) Solenoid Valve

Normally Open (NO) Solenoid Valve

Global Pilot-operated Air Solenoid Valve Market, Segmentation by Ambient Temperature Grade:

-10~80°C

>80°C

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