

Global Lightweight Solenoid Valve Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Lightweight Solenoid Valve market size was valued at US\$ 1636 million in 2024 and is forecast to a readjusted size of USD 2092 million by 2031 with a CAGR of 3.6% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

A Lightweight Solenoid Valve is a compact and low-mass valve designed to control the flow of fluids or gases through an electromechanical solenoid mechanism, making it ideal for applications where weight is a critical factor. The valve operates by using an electromagnetic coil (the solenoid) to move a plunger, which either opens or closes the flow path. Despite its reduced weight, the valve maintains high performance and reliability, often constructed from materials like aluminum, plastic, or specialized alloys that provide strength without adding unnecessary bulk. Lightweight solenoid valves are widely used in industries such as aerospace, automotive, medical devices, and portable equipment, where minimizing weight is essential for efficiency, fuel savings, or ease of handling. Their lightweight design does not compromise their ability to provide precise and rapid control over fluid dynamics, making them a versatile and essential component in systems where both performance and weight are critical considerations.

This report is a detailed and comprehensive analysis for global Lightweight Solenoid Valve market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as

well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Lightweight Solenoid Valve market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Lightweight Solenoid Valve market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Lightweight Solenoid Valve market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Lightweight Solenoid Valve market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Lightweight Solenoid Valve
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Lightweight Solenoid Valve market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include SMC, Parker, PISCO, The Lee Company, CKD, ASCO, Danfoss, B?rkert, Takasago Electric, Airtac, etc.

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

Market Segmentation

Lightweight Solenoid Valve market is split by Type and by Application. For the period

2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Direct-acting Type

Pilot-operated Type

Market segment by Application

Aerospace

Automotive

Medical

Consumer Electronics

Industrial

Others

Major players covered

SMC

Parker

PISCO

The Lee Company

CKD

ASCO

Danfoss

Bürkert

Takasago Electric

Airtac

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Lightweight Solenoid Valve product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Lightweight Solenoid Valve, with price, sales quantity, revenue, and global market share of Lightweight Solenoid Valve from 2020 to 2025.

Chapter 3, the Lightweight Solenoid Valve competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Lightweight Solenoid Valve breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Lightweight Solenoid Valve market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Lightweight Solenoid Valve.

Chapter 14 and 15, to describe Lightweight Solenoid Valve sales channel, distributors, customers, research findings and conclusion.

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