

# Global Pilot-Operated Solenoid Valves Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/G6966E4F1316EN.html>

Date: May 2024

Pages: 121

Price: US\$ 3,480.00 (Single User License)

ID: G6966E4F1316EN

## Abstracts

According to our (Global Info Research) latest study, the global Pilot-Operated Solenoid Valves market size was valued at USD 853.1 million in 2023 and is forecast to a readjusted size of USD 1285.1 million by 2030 with a CAGR of 6.0% during review period.

In the context of pilot-operated solenoid valves, the term "drivers" typically refers to the control mechanisms or devices used to operate and control these valves. Pilot-operated solenoid valves are commonly used in various industries, including oil and gas, chemical processing, water treatment, and HVAC systems. They are designed to control the flow of fluids or gases in a process, typically by opening or closing the valve based on an electrical signal.

Here are some key aspects related to the drivers of pilot-operated solenoid valves:

- 1. Solenoid Coils:** Pilot-operated solenoid valves have a solenoid coil that generates a magnetic field when energized by an electrical current. This magnetic field actuates the valve's pilot mechanism, which in turn controls the position of the main valve, allowing or restricting the flow of the fluid or gas.
- 2. Electrical Power Supply:** The driver includes an electrical power supply or control system for the solenoid coil. This can be a low-voltage DC power supply or an AC power supply, depending on the specific requirements of the solenoid valve.
- 3. Control Signals:** The driver receives control signals, typically in the form of electrical signals, to open or close the pilot-operated solenoid valve. These signals can come

from a variety of sources, such as control panels, programmable logic controllers (PLCs), sensors, or other automation systems.

4. **Control Panel or Interface:** Many pilot-operated solenoid valve drivers include a control panel or interface that allows the user to manually control and monitor the operation of the valve. This can include buttons, switches, indicators, or touchscreens for selecting the desired valve position or adjusting other settings.

5. **Position Sensing:** Some pilot-operated solenoid valve drivers incorporate position sensing or feedback mechanisms. These mechanisms provide information about the exact position of the valve, allowing for closed-loop control or monitoring of the valve's status.

6. **Safety Features:** Driver systems for pilot-operated solenoid valves may include safety features to prevent system damage or operational issues. These can include surge protection, overcurrent protection, and diagnostic functions to detect faults or abnormal conditions.

The driver plays a critical role in operating and controlling pilot-operated solenoid valves. It provides electrical power, receives control signals, and allows for manual control and monitoring. These drivers ensure the precise and reliable operation of the solenoid valves in various industrial applications.

The Global Info Research report includes an overview of the development of the Pilot-Operated Solenoid Valves industry chain, the market status of Production Equipment (3 Pass Type, 4 Pass Type), Water Plant (3 Pass Type, 4 Pass Type), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Pilot-Operated Solenoid Valves.

Regionally, the report analyzes the Pilot-Operated Solenoid Valves markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Pilot-Operated Solenoid Valves market, with robust domestic demand, supportive policies, and a strong manufacturing base.

**Key Features:**

The report presents comprehensive understanding of the Pilot-Operated Solenoid Valves market. It provides a holistic view of the industry, as well as detailed insights into

individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Pilot-Operated Solenoid Valves industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., 3 Pass Type, 4 Pass Type).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Pilot-Operated Solenoid Valves market.

**Regional Analysis:** The report involves examining the Pilot-Operated Solenoid Valves market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Pilot-Operated Solenoid Valves market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Pilot-Operated Solenoid Valves:

**Company Analysis:** Report covers individual Pilot-Operated Solenoid Valves manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Pilot-Operated Solenoid Valves This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Production Equipment, Water Plant).

**Technology Analysis:** Report covers specific technologies relevant to Pilot-Operated Solenoid Valves. It assesses the current state, advancements, and potential future developments in Pilot-Operated Solenoid Valves areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Pilot-Operated Solenoid Valves market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

### Market Segmentation

Pilot-Operated Solenoid Valves market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

#### Market segment by Type

3 Pass Type

4 Pass Type

5 Pass Type

Other

#### Market segment by Application

Production Equipment

Water Plant

Steam Pipe

Natural Gas Pipe

Chemical Equipment

Other

### Major players covered

Airtac Automatic Industrial

AMISCO

Avcon Controls PVT

BURKERT FLUID CONTROL SYSTEMS

CAMOZZI

CKD

Clippard

DWYER

FLUID TEAM Automationstechnik GmbH

GF Piping Systems

### 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 Pilot-Operated Solenoid Valves product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Pilot-Operated Solenoid Valves, with price, sales, revenue and global market share of Pilot-Operated Solenoid Valves from 2019 to 2024.

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

Chapter 4, the Pilot-Operated Solenoid Valves breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Pilot-Operated Solenoid Valves market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Pilot-Operated Solenoid Valves.

Chapter 14 and 15, to describe Pilot-Operated Solenoid Valves sales channel, distributors, customers, research findings and conclusion.

## Contents

### 1 MARKET OVERVIEW

- 1.1 Product Overview and Scope of Pilot-Operated Solenoid Valves
- 1.2 Market Estimation Caveats and Base Year
- 1.3 Market Analysis by Type
  - 1.3.1 Overview: Global Pilot-Operated Solenoid Valves Consumption Value by Type: 2019 Versus 2023 Versus 2030
  - 1.3.2 3 Pass Type
  - 1.3.3 4 Pass Type
  - 1.3.4 5 Pass Type
  - 1.3.5 Other
- 1.4 Market Analysis by Application
  - 1.4.1 Overview: Global Pilot-Operated Solenoid Valves Consumption Value by Application: 2019 Versus 2023 Versus 2030
  - 1.4.2 Production Equipment
  - 1.4.3 Water Plant
  - 1.4.4 Steam Pipe
  - 1.4.5 Natural Gas Pipe
  - 1.4.6 Chemical Equipment
  - 1.4.7 Other
- 1.5 Global Pilot-Operated Solenoid Valves Market Size & Forecast
  - 1.5.1 Global Pilot-Operated Solenoid Valves Consumption Value (2019 & 2023 & 2030)
  - 1.5.2 Global Pilot-Operated Solenoid Valves Sales Quantity (2019-2030)
  - 1.5.3 Global Pilot-Operated Solenoid Valves Average Price (2019-2030)

### 2 MANUFACTURERS PROFILES

- 2.1 Airtac Automatic Industrial
  - 2.1.1 Airtac Automatic Industrial Details
  - 2.1.2 Airtac Automatic Industrial Major Business
  - 2.1.3 Airtac Automatic Industrial Pilot-Operated Solenoid Valves Product and Services
  - 2.1.4 Airtac Automatic Industrial Pilot-Operated Solenoid Valves Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.1.5 Airtac Automatic Industrial Recent Developments/Updates
- 2.2 AMISCO
  - 2.2.1 AMISCO Details

- 2.2.2 AMISCO Major Business
- 2.2.3 AMISCO Pilot-Operated Solenoid Valves Product and Services
- 2.2.4 AMISCO Pilot-Operated Solenoid Valves Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
- 2.2.5 AMISCO Recent Developments/Updates
- 2.3 Avcon Controls PVT
  - 2.3.1 Avcon Controls PVT Details
  - 2.3.2 Avcon Controls PVT Major Business
  - 2.3.3 Avcon Controls PVT Pilot-Operated Solenoid Valves Product and Services
  - 2.3.4 Avcon Controls PVT Pilot-Operated Solenoid Valves Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.3.5 Avcon Controls PVT Recent Developments/Updates
- 2.4 BURKERT FLUID CONTROL SYSTEMS
  - 2.4.1 BURKERT FLUID CONTROL SYSTEMS Details
  - 2.4.2 BURKERT FLUID CONTROL SYSTEMS Major Business
  - 2.4.3 BURKERT FLUID CONTROL SYSTEMS Pilot-Operated Solenoid Valves Product and Services
  - 2.4.4 BURKERT FLUID CONTROL SYSTEMS Pilot-Operated Solenoid Valves Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.4.5 BURKERT FLUID CONTROL SYSTEMS Recent Developments/Updates
- 2.5 CAMOZZI
  - 2.5.1 CAMOZZI Details
  - 2.5.2 CAMOZZI Major Business
  - 2.5.3 CAMOZZI Pilot-Operated Solenoid Valves Product and Services
  - 2.5.4 CAMOZZI Pilot-Operated Solenoid Valves Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.5.5 CAMOZZI Recent Developments/Updates
- 2.6 CKD
  - 2.6.1 CKD Details
  - 2.6.2 CKD Major Business
  - 2.6.3 CKD Pilot-Operated Solenoid Valves Product and Services
  - 2.6.4 CKD Pilot-Operated Solenoid Valves Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.6.5 CKD Recent Developments/Updates
- 2.7 Clippard
  - 2.7.1 Clippard Details
  - 2.7.2 Clippard Major Business
  - 2.7.3 Clippard Pilot-Operated Solenoid Valves Product and Services
  - 2.7.4 Clippard Pilot-Operated Solenoid Valves Sales Quantity, Average Price,



Revenue, Gross Margin and Market Share (2019-2024)

2.7.5 Clippard Recent Developments/Updates

2.8 DWYER

2.8.1 DWYER Details

2.8.2 DWYER Major Business

2.8.3 DWYER Pilot-Operated Solenoid Valves Product and Services

2.8.4 DWYER Pilot-Operated Solenoid Valves Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.8.5 DWYER Recent Developments/Updates

2.9 FLUID TEAM Automationstechnik GmbH

2.9.1 FLUID TEAM Automationstechnik GmbH Details

2.9.2 FLUID TEAM Automationstechnik GmbH Major Business

2.9.3 FLUID TEAM Automationstechnik GmbH Pilot-Operated Solenoid Valves Product and Services

2.9.4 FLUID TEAM Automationstechnik GmbH Pilot-Operated Solenoid Valves Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.9.5 FLUID TEAM Automationstechnik GmbH Recent Developments/Updates

2.10 GF Piping Systems

2.10.1 GF Piping Systems Details

2.10.2 GF Piping Systems Major Business

2.10.3 GF Piping Systems Pilot-Operated Solenoid Valves Product and Services

2.10.4 GF Piping Systems Pilot-Operated Solenoid Valves Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.10.5 GF Piping Systems Recent Developments/Updates

### **3 COMPETITIVE ENVIRONMENT: PILOT-OPERATED SOLENOID VALVES BY MANUFACTURER**

3.1 Global Pilot-Operated Solenoid Valves Sales Quantity by Manufacturer (2019-2024)

3.2 Global Pilot-Operated Solenoid Valves Revenue by Manufacturer (2019-2024)

3.3 Global Pilot-Operated Solenoid Valves Average Price by Manufacturer (2019-2024)

3.4 Market Share Analysis (2023)

3.4.1 Producer Shipments of Pilot-Operated Solenoid Valves by Manufacturer Revenue (\$MM) and Market Share (%): 2023

3.4.2 Top 3 Pilot-Operated Solenoid Valves Manufacturer Market Share in 2023

3.4.2 Top 6 Pilot-Operated Solenoid Valves Manufacturer Market Share in 2023

3.5 Pilot-Operated Solenoid Valves Market: Overall Company Footprint Analysis

3.5.1 Pilot-Operated Solenoid Valves Market: Region Footprint

3.5.2 Pilot-Operated Solenoid Valves Market: Company Product Type Footprint

- 3.5.3 Pilot-Operated Solenoid Valves Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

## **4 CONSUMPTION ANALYSIS BY REGION**

- 4.1 Global Pilot-Operated Solenoid Valves Market Size by Region
  - 4.1.1 Global Pilot-Operated Solenoid Valves Sales Quantity by Region (2019-2030)
  - 4.1.2 Global Pilot-Operated Solenoid Valves Consumption Value by Region (2019-2030)
  - 4.1.3 Global Pilot-Operated Solenoid Valves Average Price by Region (2019-2030)
- 4.2 North America Pilot-Operated Solenoid Valves Consumption Value (2019-2030)
- 4.3 Europe Pilot-Operated Solenoid Valves Consumption Value (2019-2030)
- 4.4 Asia-Pacific Pilot-Operated Solenoid Valves Consumption Value (2019-2030)
- 4.5 South America Pilot-Operated Solenoid Valves Consumption Value (2019-2030)
- 4.6 Middle East and Africa Pilot-Operated Solenoid Valves Consumption Value (2019-2030)

## **5 MARKET SEGMENT BY TYPE**

- 5.1 Global Pilot-Operated Solenoid Valves Sales Quantity by Type (2019-2030)
- 5.2 Global Pilot-Operated Solenoid Valves Consumption Value by Type (2019-2030)
- 5.3 Global Pilot-Operated Solenoid Valves Average Price by Type (2019-2030)

## **6 MARKET SEGMENT BY APPLICATION**

- 6.1 Global Pilot-Operated Solenoid Valves Sales Quantity by Application (2019-2030)
- 6.2 Global Pilot-Operated Solenoid Valves Consumption Value by Application (2019-2030)
- 6.3 Global Pilot-Operated Solenoid Valves Average Price by Application (2019-2030)

## **7 NORTH AMERICA**

- 7.1 North America Pilot-Operated Solenoid Valves Sales Quantity by Type (2019-2030)
- 7.2 North America Pilot-Operated Solenoid Valves Sales Quantity by Application (2019-2030)
- 7.3 North America Pilot-Operated Solenoid Valves Market Size by Country
  - 7.3.1 North America Pilot-Operated Solenoid Valves Sales Quantity by Country (2019-2030)

7.3.2 North America Pilot-Operated Solenoid Valves Consumption Value by Country (2019-2030)

7.3.3 United States Market Size and Forecast (2019-2030)

7.3.4 Canada Market Size and Forecast (2019-2030)

7.3.5 Mexico Market Size and Forecast (2019-2030)

## **8 EUROPE**

8.1 Europe Pilot-Operated Solenoid Valves Sales Quantity by Type (2019-2030)

8.2 Europe Pilot-Operated Solenoid Valves Sales Quantity by Application (2019-2030)

8.3 Europe Pilot-Operated Solenoid Valves Market Size by Country

8.3.1 Europe Pilot-Operated Solenoid Valves Sales Quantity by Country (2019-2030)

8.3.2 Europe Pilot-Operated Solenoid Valves Consumption Value by Country (2019-2030)

8.3.3 Germany Market Size and Forecast (2019-2030)

8.3.4 France Market Size and Forecast (2019-2030)

8.3.5 United Kingdom Market Size and Forecast (2019-2030)

8.3.6 Russia Market Size and Forecast (2019-2030)

8.3.7 Italy Market Size and Forecast (2019-2030)

## **9 ASIA-PACIFIC**

9.1 Asia-Pacific Pilot-Operated Solenoid Valves Sales Quantity by Type (2019-2030)

9.2 Asia-Pacific Pilot-Operated Solenoid Valves Sales Quantity by Application (2019-2030)

9.3 Asia-Pacific Pilot-Operated Solenoid Valves Market Size by Region

9.3.1 Asia-Pacific Pilot-Operated Solenoid Valves Sales Quantity by Region (2019-2030)

9.3.2 Asia-Pacific Pilot-Operated Solenoid Valves Consumption Value by Region (2019-2030)

9.3.3 China Market Size and Forecast (2019-2030)

9.3.4 Japan Market Size and Forecast (2019-2030)

9.3.5 Korea Market Size and Forecast (2019-2030)

9.3.6 India Market Size and Forecast (2019-2030)

9.3.7 Southeast Asia Market Size and Forecast (2019-2030)

9.3.8 Australia Market Size and Forecast (2019-2030)

## **10 SOUTH AMERICA**

- 10.1 South America Pilot-Operated Solenoid Valves Sales Quantity by Type (2019-2030)
- 10.2 South America Pilot-Operated Solenoid Valves Sales Quantity by Application (2019-2030)
- 10.3 South America Pilot-Operated Solenoid Valves Market Size by Country
  - 10.3.1 South America Pilot-Operated Solenoid Valves Sales Quantity by Country (2019-2030)
  - 10.3.2 South America Pilot-Operated Solenoid Valves Consumption Value by Country (2019-2030)
  - 10.3.3 Brazil Market Size and Forecast (2019-2030)
  - 10.3.4 Argentina Market Size and Forecast (2019-2030)

## **11 MIDDLE EAST & AFRICA**

- 11.1 Middle East & Africa Pilot-Operated Solenoid Valves Sales Quantity by Type (2019-2030)
- 11.2 Middle East & Africa Pilot-Operated Solenoid Valves Sales Quantity by Application (2019-2030)
- 11.3 Middle East & Africa Pilot-Operated Solenoid Valves Market Size by Country
  - 11.3.1 Middle East & Africa Pilot-Operated Solenoid Valves Sales Quantity by Country (2019-2030)
  - 11.3.2 Middle East & Africa Pilot-Operated Solenoid Valves Consumption Value by Country (2019-2030)
  - 11.3.3 Turkey Market Size and Forecast (2019-2030)
  - 11.3.4 Egypt Market Size and Forecast (2019-2030)
  - 11.3.5 Saudi Arabia Market Size and Forecast (2019-2030)
  - 11.3.6 South Africa Market Size and Forecast (2019-2030)

## **12 MARKET DYNAMICS**

- 12.1 Pilot-Operated Solenoid Valves Market Drivers
- 12.2 Pilot-Operated Solenoid Valves Market Restraints
- 12.3 Pilot-Operated Solenoid Valves Trends Analysis
- 12.4 Porters Five Forces Analysis
  - 12.4.1 Threat of New Entrants
  - 12.4.2 Bargaining Power of Suppliers
  - 12.4.3 Bargaining Power of Buyers
  - 12.4.4 Threat of Substitutes
  - 12.4.5 Competitive Rivalry

## **13 RAW MATERIAL AND INDUSTRY CHAIN**

13.1 Raw Material of Pilot-Operated Solenoid Valves and Key Manufacturers

13.2 Manufacturing Costs Percentage of Pilot-Operated Solenoid Valves

13.3 Pilot-Operated Solenoid Valves Production Process

13.4 Pilot-Operated Solenoid Valves Industrial Chain

## **14 SHIPMENTS BY DISTRIBUTION CHANNEL**

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Pilot-Operated Solenoid Valves Typical Distributors

14.3 Pilot-Operated Solenoid Valves Typical Customers

## **15 RESEARCH FINDINGS AND CONCLUSION**

## **16 APPENDIX**

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. Global Pilot-Operated Solenoid Valves Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Table 2. Global Pilot-Operated Solenoid Valves Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Table 3. Airtac Automatic Industrial Basic Information, Manufacturing Base and Competitors

Table 4. Airtac Automatic Industrial Major Business

Table 5. Airtac Automatic Industrial Pilot-Operated Solenoid Valves Product and Services

Table 6. Airtac Automatic Industrial Pilot-Operated Solenoid Valves Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 7. Airtac Automatic Industrial Recent Developments/Updates

Table 8. AMISCO Basic Information, Manufacturing Base and Competitors

Table 9. AMISCO Major Business

Table 10. AMISCO Pilot-Operated Solenoid Valves Product and Services

Table 11. AMISCO Pilot-Operated Solenoid Valves Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 12. AMISCO Recent Developments/Updates

Table 13. Avcon Controls PVT Basic Information, Manufacturing Base and Competitors

Table 14. Avcon Controls PVT Major Business

Table 15. Avcon Controls PVT Pilot-Operated Solenoid Valves Product and Services

Table 16. Avcon Controls PVT Pilot-Operated Solenoid Valves Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 17. Avcon Controls PVT Recent Developments/Updates

Table 18. BURKERT FLUID CONTROL SYSTEMS Basic Information, Manufacturing Base and Competitors

Table 19. BURKERT FLUID CONTROL SYSTEMS Major Business

Table 20. BURKERT FLUID CONTROL SYSTEMS Pilot-Operated Solenoid Valves Product and Services

Table 21. BURKERT FLUID CONTROL SYSTEMS Pilot-Operated Solenoid Valves Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 22. BURKERT FLUID CONTROL SYSTEMS Recent Developments/Updates

- Table 23. CAMOZZI Basic Information, Manufacturing Base and Competitors
- Table 24. CAMOZZI Major Business
- Table 25. CAMOZZI Pilot-Operated Solenoid Valves Product and Services
- Table 26. CAMOZZI Pilot-Operated Solenoid Valves Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 27. CAMOZZI Recent Developments/Updates
- Table 28. CKD Basic Information, Manufacturing Base and Competitors
- Table 29. CKD Major Business
- Table 30. CKD Pilot-Operated Solenoid Valves Product and Services
- Table 31. CKD Pilot-Operated Solenoid Valves Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 32. CKD Recent Developments/Updates
- Table 33. Clippard Basic Information, Manufacturing Base and Competitors
- Table 34. Clippard Major Business
- Table 35. Clippard Pilot-Operated Solenoid Valves Product and Services
- Table 36. Clippard Pilot-Operated Solenoid Valves Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 37. Clippard Recent Developments/Updates
- Table 38. DWYER Basic Information, Manufacturing Base and Competitors
- Table 39. DWYER Major Business
- Table 40. DWYER Pilot-Operated Solenoid Valves Product and Services
- Table 41. DWYER Pilot-Operated Solenoid Valves Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 42. DWYER Recent Developments/Updates
- Table 43. FLUID TEAM Automationstechnik GmbH Basic Information, Manufacturing Base and Competitors
- Table 44. FLUID TEAM Automationstechnik GmbH Major Business
- Table 45. FLUID TEAM Automationstechnik GmbH Pilot-Operated Solenoid Valves Product and Services
- Table 46. FLUID TEAM Automationstechnik GmbH Pilot-Operated Solenoid Valves Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 47. FLUID TEAM Automationstechnik GmbH Recent Developments/Updates
- Table 48. GF Piping Systems Basic Information, Manufacturing Base and Competitors
- Table 49. GF Piping Systems Major Business
- Table 50. GF Piping Systems Pilot-Operated Solenoid Valves Product and Services
- Table 51. GF Piping Systems Pilot-Operated Solenoid Valves Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 52. GF Piping Systems Recent Developments/Updates

Table 53. Global Pilot-Operated Solenoid Valves Sales Quantity by Manufacturer (2019-2024) & (K Units)

Table 54. Global Pilot-Operated Solenoid Valves Revenue by Manufacturer (2019-2024) & (USD Million)

Table 55. Global Pilot-Operated Solenoid Valves Average Price by Manufacturer (2019-2024) & (USD/Unit)

Table 56. Market Position of Manufacturers in Pilot-Operated Solenoid Valves, (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2023

Table 57. Head Office and Pilot-Operated Solenoid Valves Production Site of Key Manufacturer

Table 58. Pilot-Operated Solenoid Valves Market: Company Product Type Footprint

Table 59. Pilot-Operated Solenoid Valves Market: Company Product Application Footprint

Table 60. Pilot-Operated Solenoid Valves New Market Entrants and Barriers to Market Entry

Table 61. Pilot-Operated Solenoid Valves Mergers, Acquisition, Agreements, and Collaborations

Table 62. Global Pilot-Operated Solenoid Valves Sales Quantity by Region (2019-2024) & (K Units)

Table 63. Global Pilot-Operated Solenoid Valves Sales Quantity by Region (2025-2030) & (K Units)

Table 64. Global Pilot-Operated Solenoid Valves Consumption Value by Region (2019-2024) & (USD Million)

Table 65. Global Pilot-Operated Solenoid Valves Consumption Value by Region (2025-2030) & (USD Million)

Table 66. Global Pilot-Operated Solenoid Valves Average Price by Region (2019-2024) & (USD/Unit)

Table 67. Global Pilot-Operated Solenoid Valves Average Price by Region (2025-2030) & (USD/Unit)

Table 68. Global Pilot-Operated Solenoid Valves Sales Quantity by Type (2019-2024) & (K Units)

Table 69. Global Pilot-Operated Solenoid Valves Sales Quantity by Type (2025-2030) & (K Units)

Table 70. Global Pilot-Operated Solenoid Valves Consumption Value by Type (2019-2024) & (USD Million)

Table 71. Global Pilot-Operated Solenoid Valves Consumption Value by Type (2025-2030) & (USD Million)

Table 72. Global Pilot-Operated Solenoid Valves Average Price by Type (2019-2024) &



(USD/Unit)

Table 73. Global Pilot-Operated Solenoid Valves Average Price by Type (2025-2030) & (USD/Unit)

Table 74. Global Pilot-Operated Solenoid Valves Sales Quantity by Application (2019-2024) & (K Units)

Table 75. Global Pilot-Operated Solenoid Valves Sales Quantity by Application (2025-2030) & (K Units)

Table 76. Global Pilot-Operated Solenoid Valves Consumption Value by Application (2019-2024) & (USD Million)

Table 77. Global Pilot-Operated Solenoid Valves Consumption Value by Application (2025-2030) & (USD Million)

Table 78. Global Pilot-Operated Solenoid Valves Average Price by Application (2019-2024) & (USD/Unit)

Table 79. Global Pilot-Operated Solenoid Valves Average Price by Application (2025-2030) & (USD/Unit)

Table 80. North America Pilot-Operated Solenoid Valves Sales Quantity by Type (2019-2024) & (K Units)

Table 81. North America Pilot-Operated Solenoid Valves Sales Quantity by Type (2025-2030) & (K Units)

Table 82. North America Pilot-Operated Solenoid Valves Sales Quantity by Application (2019-2024) & (K Units)

Table 83. North America Pilot-Operated Solenoid Valves Sales Quantity by Application (2025-2030) & (K Units)

Table 84. North America Pilot-Operated Solenoid Valves Sales Quantity by Country (2019-2024) & (K Units)

Table 85. North America Pilot-Operated Solenoid Valves Sales Quantity by Country (2025-2030) & (K Units)

Table 86. North America Pilot-Operated Solenoid Valves Consumption Value by Country (2019-2024) & (USD Million)

Table 87. North America Pilot-Operated Solenoid Valves Consumption Value by Country (2025-2030) & (USD Million)

Table 88. Europe Pilot-Operated Solenoid Valves Sales Quantity by Type (2019-2024) & (K Units)

Table 89. Europe Pilot-Operated Solenoid Valves Sales Quantity by Type (2025-2030) & (K Units)

Table 90. Europe Pilot-Operated Solenoid Valves Sales Quantity by Application (2019-2024) & (K Units)

Table 91. Europe Pilot-Operated Solenoid Valves Sales Quantity by Application (2025-2030) & (K Units)

- Table 92. Europe Pilot-Operated Solenoid Valves Sales Quantity by Country (2019-2024) & (K Units)
- Table 93. Europe Pilot-Operated Solenoid Valves Sales Quantity by Country (2025-2030) & (K Units)
- Table 94. Europe Pilot-Operated Solenoid Valves Consumption Value by Country (2019-2024) & (USD Million)
- Table 95. Europe Pilot-Operated Solenoid Valves Consumption Value by Country (2025-2030) & (USD Million)
- Table 96. Asia-Pacific Pilot-Operated Solenoid Valves Sales Quantity by Type (2019-2024) & (K Units)
- Table 97. Asia-Pacific Pilot-Operated Solenoid Valves Sales Quantity by Type (2025-2030) & (K Units)
- Table 98. Asia-Pacific Pilot-Operated Solenoid Valves Sales Quantity by Application (2019-2024) & (K Units)
- Table 99. Asia-Pacific Pilot-Operated Solenoid Valves Sales Quantity by Application (2025-2030) & (K Units)
- Table 100. Asia-Pacific Pilot-Operated Solenoid Valves Sales Quantity by Region (2019-2024) & (K Units)
- Table 101. Asia-Pacific Pilot-Operated Solenoid Valves Sales Quantity by Region (2025-2030) & (K Units)
- Table 102. Asia-Pacific Pilot-Operated Solenoid Valves Consumption Value by Region (2019-2024) & (USD Million)
- Table 103. Asia-Pacific Pilot-Operated Solenoid Valves Consumption Value by Region (2025-2030) & (USD Million)
- Table 104. South America Pilot-Operated Solenoid Valves Sales Quantity by Type (2019-2024) & (K Units)
- Table 105. South America Pilot-Operated Solenoid Valves Sales Quantity by Type (2025-2030) & (K Units)
- Table 106. South America Pilot-Operated Solenoid Valves Sales Quantity by Application (2019-2024) & (K Units)
- Table 107. South America Pilot-Operated Solenoid Valves Sales Quantity by Application (2025-2030) & (K Units)
- Table 108. South America Pilot-Operated Solenoid Valves Sales Quantity by Country (2019-2024) & (K Units)
- Table 109. South America Pilot-Operated Solenoid Valves Sales Quantity by Country (2025-2030) & (K Units)
- Table 110. South America Pilot-Operated Solenoid Valves Consumption Value by Country (2019-2024) & (USD Million)
- Table 111. South America Pilot-Operated Solenoid Valves Consumption Value by

Country (2025-2030) & (USD Million)

Table 112. Middle East & Africa Pilot-Operated Solenoid Valves Sales Quantity by Type (2019-2024) & (K Units)

Table 113. Middle East & Africa Pilot-Operated Solenoid Valves Sales Quantity by Type (2025-2030) & (K Units)

Table 114. Middle East & Africa Pilot-Operated Solenoid Valves Sales Quantity by Application (2019-2024) & (K Units)

Table 115. Middle East & Africa Pilot-Operated Solenoid Valves Sales Quantity by Application (2025-2030) & (K Units)

Table 116. Middle East & Africa Pilot-Operated Solenoid Valves Sales Quantity by Region (2019-2024) & (K Units)

Table 117. Middle East & Africa Pilot-Operated Solenoid Valves Sales Quantity by Region (2025-2030) & (K Units)

Table 118. Middle East & Africa Pilot-Operated Solenoid Valves Consumption Value by Region (2019-2024) & (USD Million)

Table 119. Middle East & Africa Pilot-Operated Solenoid Valves Consumption Value by Region (2025-2030) & (USD Million)

Table 120. Pilot-Operated Solenoid Valves Raw Material

Table 121. Key Manufacturers of Pilot-Operated Solenoid Valves Raw Materials

Table 122. Pilot-Operated Solenoid Valves Typical Distributors

Table 123. Pilot-Operated Solenoid Valves Typical Customers

## List Of Figures

### LIST OF FIGURES

- Figure 1. Pilot-Operated Solenoid Valves Picture
- Figure 2. Global Pilot-Operated Solenoid Valves Consumption Value by Type, (USD Million), 2019 & 2023 & 2030
- Figure 3. Global Pilot-Operated Solenoid Valves Consumption Value Market Share by Type in 2023
- Figure 4. 3 Pass Type Examples
- Figure 5. 4 Pass Type Examples
- Figure 6. 5 Pass Type Examples
- Figure 7. Other Examples
- Figure 8. Global Pilot-Operated Solenoid Valves Consumption Value by Application, (USD Million), 2019 & 2023 & 2030
- Figure 9. Global Pilot-Operated Solenoid Valves Consumption Value Market Share by Application in 2023
- Figure 10. Production Equipment Examples
- Figure 11. Water Plant Examples
- Figure 12. Steam Pipe Examples
- Figure 13. Natural Gas Pipe Examples
- Figure 14. Chemical Equipment Examples
- Figure 15. Other Examples
- Figure 16. Global Pilot-Operated Solenoid Valves Consumption Value, (USD Million): 2019 & 2023 & 2030
- Figure 17. Global Pilot-Operated Solenoid Valves Consumption Value and Forecast (2019-2030) & (USD Million)
- Figure 18. Global Pilot-Operated Solenoid Valves Sales Quantity (2019-2030) & (K Units)
- Figure 19. Global Pilot-Operated Solenoid Valves Average Price (2019-2030) & (USD/Unit)
- Figure 20. Global Pilot-Operated Solenoid Valves Sales Quantity Market Share by Manufacturer in 2023
- Figure 21. Global Pilot-Operated Solenoid Valves Consumption Value Market Share by Manufacturer in 2023
- Figure 22. Producer Shipments of Pilot-Operated Solenoid Valves by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2023
- Figure 23. Top 3 Pilot-Operated Solenoid Valves Manufacturer (Consumption Value) Market Share in 2023

Figure 24. Top 6 Pilot-Operated Solenoid Valves Manufacturer (Consumption Value) Market Share in 2023

Figure 25. Global Pilot-Operated Solenoid Valves Sales Quantity Market Share by Region (2019-2030)

Figure 26. Global Pilot-Operated Solenoid Valves Consumption Value Market Share by Region (2019-2030)

Figure 27. North America Pilot-Operated Solenoid Valves Consumption Value (2019-2030) & (USD Million)

Figure 28. Europe Pilot-Operated Solenoid Valves Consumption Value (2019-2030) & (USD Million)

Figure 29. Asia-Pacific Pilot-Operated Solenoid Valves Consumption Value (2019-2030) & (USD Million)

Figure 30. South America Pilot-Operated Solenoid Valves Consumption Value (2019-2030) & (USD Million)

Figure 31. Middle East & Africa Pilot-Operated Solenoid Valves Consumption Value (2019-2030) & (USD Million)

Figure 32. Global Pilot-Operated Solenoid Valves Sales Quantity Market Share by Type (2019-2030)

Figure 33. Global Pilot-Operated Solenoid Valves Consumption Value Market Share by Type (2019-2030)

Figure 34. Global Pilot-Operated Solenoid Valves Average Price by Type (2019-2030) & (USD/Unit)

Figure 35. Global Pilot-Operated Solenoid Valves Sales Quantity Market Share by Application (2019-2030)

Figure 36. Global Pilot-Operated Solenoid Valves Consumption Value Market Share by Application (2019-2030)

Figure 37. Global Pilot-Operated Solenoid Valves Average Price by Application (2019-2030) & (USD/Unit)

Figure 38. North America Pilot-Operated Solenoid Valves Sales Quantity Market Share by Type (2019-2030)

Figure 39. North America Pilot-Operated Solenoid Valves Sales Quantity Market Share by Application (2019-2030)

Figure 40. North America Pilot-Operated Solenoid Valves Sales Quantity Market Share by Country (2019-2030)

Figure 41. North America Pilot-Operated Solenoid Valves Consumption Value Market Share by Country (2019-2030)

Figure 42. United States Pilot-Operated Solenoid Valves Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 43. Canada Pilot-Operated Solenoid Valves Consumption Value and Growth

Rate (2019-2030) & (USD Million)

Figure 44. Mexico Pilot-Operated Solenoid Valves Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 45. Europe Pilot-Operated Solenoid Valves Sales Quantity Market Share by Type (2019-2030)

Figure 46. Europe Pilot-Operated Solenoid Valves Sales Quantity Market Share by Application (2019-2030)

Figure 47. Europe Pilot-Operated Solenoid Valves Sales Quantity Market Share by Country (2019-2030)

Figure 48. Europe Pilot-Operated Solenoid Valves Consumption Value Market Share by Country (2019-2030)

Figure 49. Germany Pilot-Operated Solenoid Valves Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 50. France Pilot-Operated Solenoid Valves Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 51. United Kingdom Pilot-Operated Solenoid Valves Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 52. Russia Pilot-Operated Solenoid Valves Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 53. Italy Pilot-Operated Solenoid Valves Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 54. Asia-Pacific Pilot-Operated Solenoid Valves Sales Quantity Market Share by Type (2019-2030)

Figure 55. Asia-Pacific Pilot-Operated Solenoid Valves Sales Quantity Market Share by Application (2019-2030)

Figure 56. Asia-Pacific Pilot-Operated Solenoid Valves Sales Quantity Market Share by Region (2019-2030)

Figure 57. Asia-Pacific Pilot-Operated Solenoid Valves Consumption Value Market Share by Region (2019-2030)

Figure 58. China Pilot-Operated Solenoid Valves Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 59. Japan Pilot-Operated Solenoid Valves Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 60. Korea Pilot-Operated Solenoid Valves Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 61. India Pilot-Operated Solenoid Valves Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 62. Southeast Asia Pilot-Operated Solenoid Valves Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 63. Australia Pilot-Operated Solenoid Valves Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 64. South America Pilot-Operated Solenoid Valves Sales Quantity Market Share by Type (2019-2030)

Figure 65. South America Pilot-Operated Solenoid Valves Sales Quantity Market Share by Application (2019-2030)

Figure 66. South America Pilot-Operated Solenoid Valves Sales Quantity Market Share by Country (2019-2030)

Figure 67. South America Pilot-Operated Solenoid Valves Consumption Value Market Share by Country (2019-2030)

Figure 68. Brazil Pilot-Operated Solenoid Valves Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 69. Argentina Pilot-Operated Solenoid Valves Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 70. Middle East & Africa Pilot-Operated Solenoid Valves Sales Quantity Market Share by Type (2019-2030)

Figure 71. Middle East & Africa Pilot-Operated Solenoid Valves Sales Quantity Market Share by Application (2019-2030)

Figure 72. Middle East & Africa Pilot-Operated Solenoid Valves Sales Quantity Market Share by Region (2019-2030)

Figure 73. Middle East & Africa Pilot-Operated Solenoid Valves Consumption Value Market Share by Region (2019-2030)

Figure 74. Turkey Pilot-Operated Solenoid Valves Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 75. Egypt Pilot-Operated Solenoid Valves Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 76. Saudi Arabia Pilot-Operated Solenoid Valves Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 77. South Africa Pilot-Operated Solenoid Valves Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 78. Pilot-Operated Solenoid Valves Market Drivers

Figure 79. Pilot-Operated Solenoid Valves Market Restraints

Figure 80. Pilot-Operated Solenoid Valves Market Trends

Figure 81. Porters Five Forces Analysis

Figure 82. Manufacturing Cost Structure Analysis of Pilot-Operated Solenoid Valves in 2023

Figure 83. Manufacturing Process Analysis of Pilot-Operated Solenoid Valves

Figure 84. Pilot-Operated Solenoid Valves Industrial Chain

Figure 85. Sales Quantity Channel: Direct to End-User vs Distributors

Figure 86. Direct Channel Pros & Cons

Figure 87. Indirect Channel Pros & Cons

Figure 88. Methodology

Figure 89. Research Process and Data Source



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