

Germany IoT Valves Market Size and Forecast (2020 - 2030), Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Connectivity (Wired and Wireless), Type [Pressure Independent Control Valve (PICV), Regular Valves (Ball Valve, Butterfly Valve, Safety Valve, and Others), and Energy Valves], and End User (Industrial, Commercial, and Residential)

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Abstracts

The Germany IoT valves market size was valued at US\$ 118.35 million in 2022 and is expected to reach US\$ 265.56 million by 2030; it is estimated to record a CAGR of 10.6% from 2022 to 2030. www.tip.com

The demand for industrial valves is rapidly increasing across industries such as oil & gas, chemicals, and pharmaceuticals. For example, per the European Environment Agency, in 2020, households and certain industries in 3,913 urban areas generated 111.3 million p.e. of wastewater every day, which is an amount equivalent to ~223 million bathtubs or 22.25 million cubic meter. However, urban wastewater needs to be treated before discharge in order to avoid polluting the environment. In Germany, urban wastewater is treated in 3,796 plants before it is discharged. This discharge of wastewater needs non-biological as well as biological treatment. Valves are required to carry a specific amount of wastewater discharging from various industries, and the integration of IoT valves provides an additional advantage for wastewater management. Thus, increasing demand for valves across various industries drives the Germany IoT valves market growth.

Germany is one of the world's top locations for pharmaceutical production. According to Germany Trade & Invest, in 2021, pharmaceutical production volume reached US\$

37.75 billion, equivalent to 6.9% year-on-year growth. Various players are providing valves for the pharmaceutical industries to streamline their operations. For example, GEA provides a VESTA valve series, which includes all valve types required for optimal execution of sterile processes in the pharmaceutical sector. These include laboratory applications as well as complex process plants in the pharmaceutical, biotechnology, and cosmetics industries. Also, these valves meet high requirements within aseptic, sterile, and hygienic processes. The sterilization process can be easily streamlined with IoT valves, as these valves allow sterilization process controls. Such increasing demand for valves across various industries facilitates the Germany IoT valves market growth.

On the basis of type, the Germany IoT valves market is segmented into energy valves, pressure independent control valves (PICV), and regular valves. The pressure independent control valve (PICV) segment held the largest Germany IoT valves market share in 2022. Pressure independent control valves are automatic temperature control valves and automatic flow regulating valves packaged in one valve body. PICV responds to changes in pressure in order to maintain the desired flow. It delivers a constant flow even as pressure changes. PICVs regulate the flow of water or air to maintain a consistent temperature and pressure in the building. PICVs typically consist of a control valve, a differential pressure regulator, and a flow limiter. The flow limiter ensures a constant flow rate, even if the differential pressure regulator fails or there are changes in system demand. It also reduces costs and makes the entire system work better. Various market players in Germany provide PICV to conduct pressure-independent flow and power control. For example, BELIMO provides Belimo Energy Valve, which helps to provide pressure-independent flow and power control and transparent monitoring of heating or cooling systems. The product is an intelligent pressure independent valve that can be connected to the Belimo Cloud. It has unique functions, such as the delta T manager or the possibility of direct power control, providing clarity, enhancing efficiency, and reducing costs. Thus, the pressure independent control valves (PICV) segment holds a significant Germany IoT valves market share owing to the presence of such market players.

The report includes growth prospects owing to the current Germany IoT valves market trends and their foreseeable impact during the forecast period. Klinger Schoneberg GmbH, TW Technology GMBH, Carrier Global Corp, IMI Plc, Ultra Clean Holdings Inc, Siemens AG, Flowserve Corp, Honeywell International Inc, Larsen & Toubro Ltd, and Belimo Holding AG are among the key players profiled in the Germany IoT valves market report. The Germany IoT valves market report provides detailed market insights, which help the key players strategize their growth.

The overall Germany IoT valves market size has been derived using both primary and secondary sources. Exhaustive secondary research has been conducted using internal

and external sources to obtain qualitative and quantitative information related to the Germany IoT valves market analysis. The process also helps obtain an overview and forecast of the market with respect to all the market segments. Also, multiple primary interviews have been conducted with industry participants to validate the data and gain analytical insights. This process includes industry experts such as VPs, business development managers, market intelligence managers, and national sales managers, along with external consultants such as valuation experts, research analysts, and key opinion leaders, specializing in the Germany IoT valves market.

Contents

1. INTRODUCTION

- 1.1 The Insight Partners Research Report Guidance
- 1.2 Market Segmentation

2. EXECUTIVE SUMMARY

- 2.1 Key Insights

3. RESEARCH METHODOLOGY

- 3.1 Coverage
- 3.2 Secondary Research
- 3.3 Primary Research

4. IOT VALVES MARKET LANDSCAPE

- 4.1 Overview
- 4.2 PEST Analysis
- 4.3 Ecosystem Analysis
 - 4.3.1 List of Vendors in the Value Chain

5. IOT VALVES MARKET – KEY MARKET DYNAMICS

- 5.1 IoT Valves Market – Key Market Dynamics
- 5.2 Market Drivers
 - 5.2.1 Increasing Demand For Automation And Smart Solutions In Industries
 - 5.2.2 Growing Need for Remote Monitoring and Control Systems in Industrial Process
 - 5.2.3 Rising Implementation of Safety and Compliance Regulations in Industrial Process
- 5.3 Market Restraints
 - 5.3.1 High Cost of IoT Valves
- 5.4 Market Opportunities
 - 5.4.1 Growth of Industry 4.0
 - 5.4.2 Increasing Demand for Valves across Various Industries
- 5.5 Future Trends
 - 5.5.1 Integration of Machine Learning Algorithm with IoT Valves

5.6 Impact of Drivers and Restraints:

6. IOT VALVES MARKET ANALYSIS

6.1 IoT Valves Market Revenue (US\$ Million), 2022–2030

6.2 IoT Valves Market Forecast and Analysis

7. IOT VALVES MARKET ANALYSIS – BY CONNECTIVITY

7.1 Wired

7.1.1 Overview

7.1.2 Wired: IoT Valves Market – Revenue and Forecast to 2030 (US\$ Million)

7.2 Wireless

7.2.1 Overview

7.2.2 Wireless: IoT Valves Market – Revenue and Forecast to 2030 (US\$ Million)

8. IOT VALVES MARKET ANALYSIS – BY TYPE

8.1 Pressure Independent Control Valve (PICV)

8.1.1 Overview

8.1.2 Pressure Independent Control Valve (PICV): IoT Valves Market – Revenue and Forecast to 2030 (US\$ Million)

8.2 Regular Valves

8.2.1 Overview

8.2.2 Regular Valves: IoT Valves Market – Revenue and Forecast to 2030 (US\$ Million)

8.2.3 Ball Valves

8.2.3.1 Overview

8.2.3.2 Ball Valves: IoT Valves Market – Revenue and Forecast to 2030 (US\$ Million)

8.2.4 Butterfly Valves

8.2.4.1 Overview

8.2.4.2 Butterfly Valves: IoT Valves Market – Revenue and Forecast to 2030 (US\$ Million)

8.2.5 Safety Valves

8.2.6 Overview

8.2.7 Safety Valves: IoT Valves Market – Revenue and Forecast to 2030 (US\$ Million)

8.2.8 Others

8.2.8.1 Overview

8.2.8.2 Others: IoT Valves Market – Revenue and Forecast to 2030 (US\$ Million)

8.3 Energy Valves

8.3.1 Overview

8.3.2 Energy Valves: IoT Valves Market – Revenue and Forecast to 2030 (US\$ Million)

9. IOT VALVES MARKET ANALYSIS – BY END USER

9.1 Industrial

9.1.1 Overview

9.1.2 Industrial: IoT Valves Market – Revenue and Forecast to 2030 (US\$ Million)

9.2 Commercial

9.2.1 Overview

9.2.2 Commercial: IoT Valves Market – Revenue and Forecast to 2030 (US\$ Million)

9.3 Residential

9.3.1 Overview

9.3.2 Residential: IoT Valves Market – Revenue and Forecast to 2030 (US\$ Million)

10. IOT VALVES MARKET – IMPACT OF COVID-19 PANDEMIC

10.1 Pre & Post COVID-19 Impact

11. COMPETITIVE LANDSCAPE

11.1 Company Positioning and Concentration

11.2 Heat Map Analysis by Key Players

12. INDUSTRY LANDSCAPE

12.1 Overview

12.2 Market Initiative

12.3 Merger and Acquisition

13. COMPANY PROFILES

13.1 Klinger Holding GmbH

13.1.1 Key Facts

13.1.2 Business Description

13.1.3 Products and Services

13.1.4 Financial Overview

13.1.5 SWOT Analysis

- 13.1.6 Key Developments
- 13.2 KTW Technology GMBH
 - 13.2.1 Key Facts
 - 13.2.2 Business Description
 - 13.2.3 Products and Services
 - 13.2.4 Financial Overview
 - 13.2.5 SWOT Analysis
 - 13.2.6 Key Developments
- 13.3 Carrier Global Corp
 - 13.3.1 Key Facts
 - 13.3.2 Business Description
 - 13.3.3 Products and Services
 - 13.3.4 Financial Overview
 - 13.3.5 SWOT Analysis
 - 13.3.6 Key Developments
- 13.4 Belimo Holding AG
 - 13.4.1 Key Facts
 - 13.4.2 Business Description
 - 13.4.3 Products and Services
 - 13.4.4 Financial Overview
 - 13.4.5 SWOT Analysis
 - 13.4.6 Key Developments
- 13.5 IMI Plc
 - 13.5.1 Key Facts
 - 13.5.2 Business Description
 - 13.5.3 Products and Services
 - 13.5.4 Financial Overview
 - 13.5.5 SWOT Analysis
 - 13.5.6 Key Developments
- 13.6 Ultra Clean Holdings Inc
 - 13.6.1 Key Facts
 - 13.6.2 Business Description
 - 13.6.3 Products and Services
 - 13.6.4 Financial Overview
 - 13.6.5 SWOT Analysis
 - 13.6.6 Key Developments
- 13.7 Siemens AG
 - 13.7.1 Key Facts
 - 13.7.2 Business Description

- 13.7.3 Products and Services
- 13.7.4 Financial Overview
- 13.7.5 SWOT Analysis
- 13.7.6 Key Developments
- 13.8 Flowserve Corp
 - 13.8.1 Key Facts
 - 13.8.2 Business Description
 - 13.8.3 Products and Services
 - 13.8.4 Financial Overview
 - 13.8.5 SWOT Analysis
 - 13.8.6 Key Developments
- 13.9 Honeywell International Inc
 - 13.9.1 Key Facts
 - 13.9.2 Business Description
 - 13.9.3 Products and Services
 - 13.9.4 Financial Overview
 - 13.9.5 SWOT Analysis
 - 13.9.6 Key Developments
- 13.10 Larsen & Toubro Ltd
 - 13.10.1 Key Facts
 - 13.10.2 Business Description
 - 13.10.3 Products and Services
 - 13.10.4 Financial Overview
 - 13.10.5 SWOT Analysis
 - 13.10.6 Key Developments

14. APPENDIX

- 14.1 Word Index
- 14.2 About The Insight Partners

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