

Global Air Bypass Valve Market Growth 2026-2032

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Abstracts

The global Air Bypass Valve market size is predicted to grow from US\$ 514 million in 2025 to US\$ 867 million in 2032; it is expected to grow at a CAGR of 7.8% from 2026 to 2032.

An air bypass valve is a flow control device that regulates the passage of air around a primary system component, either to bypass the component entirely or to recirculate air within the system. Unlike standard isolation valves, air bypass valves are specifically engineered to manage pressure differentials, prevent compressor surge, and enable controlled air recirculation in both automotive and industrial applications. In automotive turbocharger systems, the bypass valve opens when the throttle closes suddenly, allowing pressurized air to recirculate back to the compressor inlet, preventing damaging compressor surge and reducing turbo lag. In industrial pneumatic systems, air bypass valves incorporate reflux functionality, allowing air to flow backward through the regulator when the upstream supply is depressurized, essential for achieving safe zero-energy states. Key types include pressure-actuated bypass valves, solenoid-controlled electronic bypass valves, and self-operated bypass valves. Primary applications span automotive turbochargers, industrial pneumatic systems, HVAC systems, and aerospace bleed air management. From a value chain perspective, upstream includes solenoid and actuator suppliers, spring manufacturers, and precision casting providers; midstream involves valve assembly, leak testing, calibration, and OEM distribution; downstream demand spans automotive OEMs, turbocharger manufacturers, industrial automation integrators, and aftermarket channels. In 2025, the average selling price is approximately US\$30 per unit, global sales volume is about 17,500k units, and gross margins generally range from 25% to 40%, driven by material costs (aluminum, stainless steel), manufacturing precision requirements, and application-specific certification standards.

The air bypass valve market is experiencing steady growth driven by increasing vehicle

turbocharger penetration, rising demand for system efficiency in industrial automation, and stringent safety regulations for pneumatic systems.

Automotive Turbocharger Expansion as Primary Driver

Downsized, turbocharged engines have become the dominant powertrain architecture for meeting fuel economy and emissions standards globally. With turbocharger penetration exceeding 50% in new passenger vehicles in major markets, the demand for compressor bypass valves has increased correspondingly. These valves protect turbocharger components from surge during throttle closure events while improving transient response. The proliferation of electric and electronically controlled bypass valves has enabled more precise boost management, reducing lag and enhancing drivability.

Industrial Pneumatic Systems Requiring Zero-Energy States

In industrial automation and process control, safety regulations increasingly mandate that pneumatic systems achieve zero-energy states during maintenance. Standard regulators trap downstream pressure, creating a hazard for maintenance personnel. Air bypass valves with integrated reflux capability?allowing air to flow from the outlet back to the inlet?enable complete system depressurization when the upstream supply is shut off, satisfying lock-out tag-out requirements. This feature is particularly critical in manufacturing environments where pneumatic actuators control potentially dangerous machinery.

Dual-Pressure Circuit Efficiency in Pneumatic Applications

Air bypass valves enable sophisticated pneumatic circuit designs that reduce compressed air consumption. By allowing regulated pressure for work strokes and unregulated return strokes, these systems can achieve energy savings of up to 40% per cycle. As compressed air accounts for 10-30% of industrial electricity consumption in manufacturing facilities, demand for energy-efficient pneumatic components continues to rise. This efficiency imperative drives adoption across automotive assembly, packaging, and material handling applications.

LP Information, Inc. (LPI) ' newest research report, the "Air Bypass Valve Industry Forecast" looks at past sales and reviews total world Air Bypass Valve sales in 2025, providing a comprehensive analysis by region and market sector of projected Air Bypass Valve sales for 2026 through 2032. With Air Bypass Valve sales broken down

by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Air Bypass Valve industry.

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

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

This report presents a comprehensive overview, market shares, and growth opportunities of Air Bypass Valve market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Pressure Bypass Valves

Self-operated Bypass Valves

Segmentation by Port Configuration:

2-Way (Inlet + Outlet)

3-Way (Inlet + Outlet + Exhaust/Dump)

Segmentation by Pressure Rating:

Low Pressure (

Medium Pressure (10-50 bar)

High Pressure (> 50 bar)

Segmentation by Application:

Automotive

Industrial Pneumatic Systems

HVAC & Building Automation

Aerospace

Oil & Gas

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Honeywell International Inc.

Hitachi, Ltd.

Mitsubishi Electric Corporation

Emerson Electric Co.

Parker Hannifin Corporation

Swagelok Company

AEM

GM Genuine Parts

Honda Tech

Hankison

Valcor Engineering Corporation

Bürkert Fluid Control Systems

Alfa Laval AB

Spirax Sarco Engineering plc

GEM? Gebr. Müller Apparatebau GmbH & Co. KG

AIRTAC International Group

Mindman Industrial Co., Ltd.

SMC Corporation

Festo SE & Co. KG

KORVAL

Air Mac Inc.

BorgWarner Inc.

Continental AG

Key Questions Addressed in this Report

What is the 10-year outlook for the global Air Bypass Valve market?

What factors are driving Air Bypass Valve market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Air Bypass Valve market opportunities vary by end market size?

How does Air Bypass Valve break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Air Bypass Valve Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Air Bypass Valve by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Air Bypass Valve by Country/Region, 2021, 2025 & 2032
- 2.2 Air Bypass Valve Segment by Type
 - 2.2.1 Pressure Bypass Valves
 - 2.2.2 Self-operated Bypass Valves
 - 2.2.3 Air Bypass Valve Sales by Type
 - 2.2.3.1 Global Air Bypass Valve Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global Air Bypass Valve Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global Air Bypass Valve Sale Price by Type (2021-2026)
- 2.3 Air Bypass Valve Segment by Port Configuration
 - 2.3.1 2-Way (Inlet + Outlet)
 - 2.3.2 3-Way (Inlet + Outlet + Exhaust/Dump)
 - 2.3.3 Air Bypass Valve Sales by Port Configuration
 - 2.3.3.1 Global Air Bypass Valve Sales Market Share by Port Configuration (2021-2026)
 - 2.3.3.2 Global Air Bypass Valve Revenue and Market Share by Port Configuration (2021-2026)
 - 2.3.3.3 Global Air Bypass Valve Sale Price by Port Configuration (2021-2026)
- 2.4 Air Bypass Valve Segment by Pressure Rating
 - 2.4.1 Low Pressure (
 - 2.4.2 Medium Pressure (10-50 bar)

2.4.3 High Pressure (> 50 bar)

2.4.4 Air Bypass Valve Sales by Pressure Rating

2.4.4.1 Global Air Bypass Valve Sales Market Share by Pressure Rating (2021-2026)

2.4.4.2 Global Air Bypass Valve Revenue and Market Share by Pressure Rating (2021-2026)

2.4.4.3 Global Air Bypass Valve Sale Price by Pressure Rating (2021-2026)

2.5 Air Bypass Valve Segment by Application

2.5.1 Automotive

2.5.2 Industrial Pneumatic Systems

2.5.3 HVAC & Building Automation

2.5.4 Aerospace

2.5.5 Oil & Gas

2.5.6 Others

2.5.7 Air Bypass Valve Sales by Application

2.5.7.1 Global Air Bypass Valve Sale Market Share by Application (2021-2026)

2.5.7.2 Global Air Bypass Valve Revenue and Market Share by Application (2021-2026)

2.5.7.3 Global Air Bypass Valve Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Air Bypass Valve Breakdown Data by Company

3.1.1 Global Air Bypass Valve Annual Sales by Company (2021-2026)

3.1.2 Global Air Bypass Valve Sales Market Share by Company (2021-2026)

3.2 Global Air Bypass Valve Annual Revenue by Company (2021-2026)

3.2.1 Global Air Bypass Valve Revenue by Company (2021-2026)

3.2.2 Global Air Bypass Valve Revenue Market Share by Company (2021-2026)

3.3 Global Air Bypass Valve Sale Price by Company

3.4 Key Manufacturers Air Bypass Valve Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Air Bypass Valve Product Location Distribution

3.4.2 Players Air Bypass Valve Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR AIR BYPASS VALVE BY GEOGRAPHIC

REGION

- 4.1 World Historic Air Bypass Valve Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global Air Bypass Valve Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global Air Bypass Valve Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Air Bypass Valve Market Size by Country/Region (2021-2026)
 - 4.2.1 Global Air Bypass Valve Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global Air Bypass Valve Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Air Bypass Valve Sales Growth
- 4.4 APAC Air Bypass Valve Sales Growth
- 4.5 Europe Air Bypass Valve Sales Growth
- 4.6 Middle East & Africa Air Bypass Valve Sales Growth

5 AMERICAS

- 5.1 Americas Air Bypass Valve Sales by Country
 - 5.1.1 Americas Air Bypass Valve Sales by Country (2021-2026)
 - 5.1.2 Americas Air Bypass Valve Revenue by Country (2021-2026)
- 5.2 Americas Air Bypass Valve Sales by Type (2021-2026)
- 5.3 Americas Air Bypass Valve Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC Air Bypass Valve Sales by Region
 - 6.1.1 APAC Air Bypass Valve Sales by Region (2021-2026)
 - 6.1.2 APAC Air Bypass Valve Revenue by Region (2021-2026)
- 6.2 APAC Air Bypass Valve Sales by Type (2021-2026)
- 6.3 APAC Air Bypass Valve Sales by Application (2021-2026)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

7.1 Europe Air Bypass Valve by Country

7.1.1 Europe Air Bypass Valve Sales by Country (2021-2026)

7.1.2 Europe Air Bypass Valve Revenue by Country (2021-2026)

7.2 Europe Air Bypass Valve Sales by Type (2021-2026)

7.3 Europe Air Bypass Valve Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Air Bypass Valve by Country

8.1.1 Middle East & Africa Air Bypass Valve Sales by Country (2021-2026)

8.1.2 Middle East & Africa Air Bypass Valve Revenue by Country (2021-2026)

8.2 Middle East & Africa Air Bypass Valve Sales by Type (2021-2026)

8.3 Middle East & Africa Air Bypass Valve Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Air Bypass Valve

10.3 Manufacturing Process Analysis of Air Bypass Valve

10.4 Industry Chain Structure of Air Bypass Valve

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Air Bypass Valve Distributors

11.3 Air Bypass Valve Customer

12 WORLD FORECAST REVIEW FOR AIR BYPASS VALVE BY GEOGRAPHIC REGION

12.1 Global Air Bypass Valve Market Size Forecast by Region

12.1.1 Global Air Bypass Valve Forecast by Region (2027-2032)

12.1.2 Global Air Bypass Valve Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Air Bypass Valve Forecast by Type (2027-2032)

12.7 Global Air Bypass Valve Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Honeywell International Inc.

13.1.1 Honeywell International Inc. Company Information

13.1.2 Honeywell International Inc. Air Bypass Valve Product Portfolios and Specifications

13.1.3 Honeywell International Inc. Air Bypass Valve Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Honeywell International Inc. Main Business Overview

13.1.5 Honeywell International Inc. Latest Developments

13.2 Hitachi, Ltd.

13.2.1 Hitachi, Ltd. Company Information

13.2.2 Hitachi, Ltd. Air Bypass Valve Product Portfolios and Specifications

13.2.3 Hitachi, Ltd. Air Bypass Valve Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Hitachi, Ltd. Main Business Overview

13.2.5 Hitachi, Ltd. Latest Developments

13.3 Mitsubishi Electric Corporation

13.3.1 Mitsubishi Electric Corporation Company Information

13.3.2 Mitsubishi Electric Corporation Air Bypass Valve Product Portfolios and Specifications

13.3.3 Mitsubishi Electric Corporation Air Bypass Valve Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Mitsubishi Electric Corporation Main Business Overview

13.3.5 Mitsubishi Electric Corporation Latest Developments

13.4 Emerson Electric Co.

13.4.1 Emerson Electric Co. Company Information

13.4.2 Emerson Electric Co. Air Bypass Valve Product Portfolios and Specifications

13.4.3 Emerson Electric Co. Air Bypass Valve Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Emerson Electric Co. Main Business Overview

13.4.5 Emerson Electric Co. Latest Developments

13.5 Parker Hannifin Corporation

13.5.1 Parker Hannifin Corporation Company Information

13.5.2 Parker Hannifin Corporation Air Bypass Valve Product Portfolios and Specifications

13.5.3 Parker Hannifin Corporation Air Bypass Valve Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Parker Hannifin Corporation Main Business Overview

13.5.5 Parker Hannifin Corporation Latest Developments

13.6 Swagelok Company

13.6.1 Swagelok Company Company Information

13.6.2 Swagelok Company Air Bypass Valve Product Portfolios and Specifications

13.6.3 Swagelok Company Air Bypass Valve Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Swagelok Company Main Business Overview

13.6.5 Swagelok Company Latest Developments

13.7 AEM

13.7.1 AEM Company Information

13.7.2 AEM Air Bypass Valve Product Portfolios and Specifications

13.7.3 AEM Air Bypass Valve Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 AEM Main Business Overview

13.7.5 AEM Latest Developments

13.8 GM Genuine Parts

13.8.1 GM Genuine Parts Company Information

13.8.2 GM Genuine Parts Air Bypass Valve Product Portfolios and Specifications

13.8.3 GM Genuine Parts Air Bypass Valve Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 GM Genuine Parts Main Business Overview

13.8.5 GM Genuine Parts Latest Developments

13.9 Honda Tech

13.9.1 Honda Tech Company Information

13.9.2 Honda Tech Air Bypass Valve Product Portfolios and Specifications

13.9.3 Honda Tech Air Bypass Valve Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Honda Tech Main Business Overview

13.9.5 Honda Tech Latest Developments

13.10 Hankison

13.10.1 Hankison Company Information

13.10.2 Hankison Air Bypass Valve Product Portfolios and Specifications

13.10.3 Hankison Air Bypass Valve Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Hankison Main Business Overview

13.10.5 Hankison Latest Developments

13.11 Valcor Engineering Corporation

13.11.1 Valcor Engineering Corporation Company Information

13.11.2 Valcor Engineering Corporation Air Bypass Valve Product Portfolios and Specifications

13.11.3 Valcor Engineering Corporation Air Bypass Valve Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Valcor Engineering Corporation Main Business Overview

13.11.5 Valcor Engineering Corporation Latest Developments

13.12 Børkert Fluid Control Systems

13.12.1 Børkert Fluid Control Systems Company Information

13.12.2 Børkert Fluid Control Systems Air Bypass Valve Product Portfolios and Specifications

13.12.3 Børkert Fluid Control Systems Air Bypass Valve Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Børkert Fluid Control Systems Main Business Overview

13.12.5 Børkert Fluid Control Systems Latest Developments

13.13 Alfa Laval AB

13.13.1 Alfa Laval AB Company Information

13.13.2 Alfa Laval AB Air Bypass Valve Product Portfolios and Specifications

13.13.3 Alfa Laval AB Air Bypass Valve Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.13.4 Alfa Laval AB Main Business Overview
- 13.13.5 Alfa Laval AB Latest Developments
- 13.14 Spirax Sarco Engineering plc
 - 13.14.1 Spirax Sarco Engineering plc Company Information
 - 13.14.2 Spirax Sarco Engineering plc Air Bypass Valve Product Portfolios and Specifications
 - 13.14.3 Spirax Sarco Engineering plc Air Bypass Valve Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.14.4 Spirax Sarco Engineering plc Main Business Overview
 - 13.14.5 Spirax Sarco Engineering plc Latest Developments
- 13.15 GEM? Gebr. M?ller Apparatebau GmbH & Co. KG
 - 13.15.1 GEM? Gebr. M?ller Apparatebau GmbH & Co. KG Company Information
 - 13.15.2 GEM? Gebr. M?ller Apparatebau GmbH & Co. KG Air Bypass Valve Product Portfolios and Specifications
 - 13.15.3 GEM? Gebr. M?ller Apparatebau GmbH & Co. KG Air Bypass Valve Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.15.4 GEM? Gebr. M?ller Apparatebau GmbH & Co. KG Main Business Overview
 - 13.15.5 GEM? Gebr. M?ller Apparatebau GmbH & Co. KG Latest Developments
- 13.16 AIRTAC International Group
 - 13.16.1 AIRTAC International Group Company Information
 - 13.16.2 AIRTAC International Group Air Bypass Valve Product Portfolios and Specifications
 - 13.16.3 AIRTAC International Group Air Bypass Valve Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.16.4 AIRTAC International Group Main Business Overview
 - 13.16.5 AIRTAC International Group Latest Developments
- 13.17 Mindman Industrial Co., Ltd.
 - 13.17.1 Mindman Industrial Co., Ltd. Company Information
 - 13.17.2 Mindman Industrial Co., Ltd. Air Bypass Valve Product Portfolios and Specifications
 - 13.17.3 Mindman Industrial Co., Ltd. Air Bypass Valve Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.17.4 Mindman Industrial Co., Ltd. Main Business Overview
 - 13.17.5 Mindman Industrial Co., Ltd. Latest Developments
- 13.18 SMC Corporation
 - 13.18.1 SMC Corporation Company Information
 - 13.18.2 SMC Corporation Air Bypass Valve Product Portfolios and Specifications
 - 13.18.3 SMC Corporation Air Bypass Valve Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.18.4 SMC Corporation Main Business Overview
- 13.18.5 SMC Corporation Latest Developments
- 13.19 Festo SE & Co. KG
 - 13.19.1 Festo SE & Co. KG Company Information
 - 13.19.2 Festo SE & Co. KG Air Bypass Valve Product Portfolios and Specifications
 - 13.19.3 Festo SE & Co. KG Air Bypass Valve Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.19.4 Festo SE & Co. KG Main Business Overview
 - 13.19.5 Festo SE & Co. KG Latest Developments
- 13.20 KORVAL
 - 13.20.1 KORVAL Company Information
 - 13.20.2 KORVAL Air Bypass Valve Product Portfolios and Specifications
 - 13.20.3 KORVAL Air Bypass Valve Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.20.4 KORVAL Main Business Overview
 - 13.20.5 KORVAL Latest Developments
- 13.21 Air Mac Inc.
 - 13.21.1 Air Mac Inc. Company Information
 - 13.21.2 Air Mac Inc. Air Bypass Valve Product Portfolios and Specifications
 - 13.21.3 Air Mac Inc. Air Bypass Valve Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.21.4 Air Mac Inc. Main Business Overview
 - 13.21.5 Air Mac Inc. Latest Developments
- 13.22 BorgWarner Inc.
 - 13.22.1 BorgWarner Inc. Company Information
 - 13.22.2 BorgWarner Inc. Air Bypass Valve Product Portfolios and Specifications
 - 13.22.3 BorgWarner Inc. Air Bypass Valve Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.22.4 BorgWarner Inc. Main Business Overview
 - 13.22.5 BorgWarner Inc. Latest Developments
- 13.23 Continental AG
 - 13.23.1 Continental AG Company Information
 - 13.23.2 Continental AG Air Bypass Valve Product Portfolios and Specifications
 - 13.23.3 Continental AG Air Bypass Valve Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.23.4 Continental AG Main Business Overview
 - 13.23.5 Continental AG Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Air Bypass Valve Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Air Bypass Valve Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Pressure Bypass Valves

Table 4. Major Players of Self-operated Bypass Valves

Table 5. Global Air Bypass Valve Sales by Type (2021-2026) & (K Units)

Table 6. Global Air Bypass Valve Sales Market Share by Type (2021-2026)

Table 7. Global Air Bypass Valve Revenue by Type (2021-2026) & (\$ million)

Table 8. Global Air Bypass Valve Revenue Market Share by Type (2021-2026)

Table 9. Global Air Bypass Valve Sale Price by Type (2021-2026) & (US\$/Unit)

Table 10. Major Players of 2-Way (Inlet + Outlet)

Table 11. Major Players of 3-Way (Inlet + Outlet + Exhaust/Dump)

Table 12. Global Air Bypass Valve Sales by Port Configuration (2021-2026) & (K Units)

Table 13. Global Air Bypass Valve Sales Market Share by Port Configuration (2021-2026)

Table 14. Global Air Bypass Valve Revenue by Port Configuration (2021-2026) & (\$ million)

Table 15. Global Air Bypass Valve Revenue Market Share by Port Configuration (2021-2026)

Table 16. Global Air Bypass Valve Sale Price by Port Configuration (2021-2026) & (US\$/Unit)

Table 17. Major Players of Low Pressure (Table 18. Major Players of Medium Pressure (10-50 bar)

Table 19. Major Players of High Pressure (> 50 bar)

Table 20. Global Air Bypass Valve Sales by Pressure Rating (2021-2026) & (K Units)

Table 21. Global Air Bypass Valve Sales Market Share by Pressure Rating (2021-2026)

Table 22. Global Air Bypass Valve Revenue by Pressure Rating (2021-2026) & (\$ million)

Table 23. Global Air Bypass Valve Revenue Market Share by Pressure Rating (2021-2026)

Table 24. Global Air Bypass Valve Sale Price by Pressure Rating (2021-2026) & (US\$/Unit)

Table 25. Global Air Bypass Valve Sale by Application (2021-2026) & (K Units)

Table 26. Global Air Bypass Valve Sale Market Share by Application (2021-2026)

Table 27. Global Air Bypass Valve Revenue by Application (2021-2026) & (\$ million)
Table 28. Global Air Bypass Valve Revenue Market Share by Application (2021-2026)
Table 29. Global Air Bypass Valve Sale Price by Application (2021-2026) & (US\$/Unit)
Table 30. Global Air Bypass Valve Sales by Company (2021-2026) & (K Units)
Table 31. Global Air Bypass Valve Sales Market Share by Company (2021-2026)
Table 32. Global Air Bypass Valve Revenue by Company (2021-2026) & (\$ millions)
Table 33. Global Air Bypass Valve Revenue Market Share by Company (2021-2026)
Table 34. Global Air Bypass Valve Sale Price by Company (2021-2026) & (US\$/Unit)
Table 35. Key Manufacturers Air Bypass Valve Producing Area Distribution and Sales Area
Table 36. Players Air Bypass Valve Products Offered
Table 37. Air Bypass Valve Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 38. New Products and Potential Entrants
Table 39. Market M&A Activity & Strategy
Table 40. Global Air Bypass Valve Sales by Geographic Region (2021-2026) & (K Units)
Table 41. Global Air Bypass Valve Sales Market Share Geographic Region (2021-2026)
Table 42. Global Air Bypass Valve Revenue by Geographic Region (2021-2026) & (\$ millions)
Table 43. Global Air Bypass Valve Revenue Market Share by Geographic Region (2021-2026)
Table 44. Global Air Bypass Valve Sales by Country/Region (2021-2026) & (K Units)
Table 45. Global Air Bypass Valve Sales Market Share by Country/Region (2021-2026)
Table 46. Global Air Bypass Valve Revenue by Country/Region (2021-2026) & (\$ millions)
Table 47. Global Air Bypass Valve Revenue Market Share by Country/Region (2021-2026)
Table 48. Americas Air Bypass Valve Sales by Country (2021-2026) & (K Units)
Table 49. Americas Air Bypass Valve Sales Market Share by Country (2021-2026)
Table 50. Americas Air Bypass Valve Revenue by Country (2021-2026) & (\$ millions)
Table 51. Americas Air Bypass Valve Sales by Type (2021-2026) & (K Units)
Table 52. Americas Air Bypass Valve Sales by Application (2021-2026) & (K Units)
Table 53. APAC Air Bypass Valve Sales by Region (2021-2026) & (K Units)
Table 54. APAC Air Bypass Valve Sales Market Share by Region (2021-2026)
Table 55. APAC Air Bypass Valve Revenue by Region (2021-2026) & (\$ millions)
Table 56. APAC Air Bypass Valve Sales by Type (2021-2026) & (K Units)
Table 57. APAC Air Bypass Valve Sales by Application (2021-2026) & (K Units)
Table 58. Europe Air Bypass Valve Sales by Country (2021-2026) & (K Units)
Table 59. Europe Air Bypass Valve Revenue by Country (2021-2026) & (\$ millions)

Table 60. Europe Air Bypass Valve Sales by Type (2021-2026) & (K Units)
Table 61. Europe Air Bypass Valve Sales by Application (2021-2026) & (K Units)
Table 62. Middle East & Africa Air Bypass Valve Sales by Country (2021-2026) & (K Units)
Table 63. Middle East & Africa Air Bypass Valve Revenue Market Share by Country (2021-2026)
Table 64. Middle East & Africa Air Bypass Valve Sales by Type (2021-2026) & (K Units)
Table 65. Middle East & Africa Air Bypass Valve Sales by Application (2021-2026) & (K Units)
Table 66. Key Market Drivers & Growth Opportunities of Air Bypass Valve
Table 67. Key Market Challenges & Risks of Air Bypass Valve
Table 68. Key Industry Trends of Air Bypass Valve
Table 69. Air Bypass Valve Raw Material
Table 70. Key Suppliers of Raw Materials
Table 71. Air Bypass Valve Distributors List
Table 72. Air Bypass Valve Customer List
Table 73. Global Air Bypass Valve Sales Forecast by Region (2027-2032) & (K Units)
Table 74. Global Air Bypass Valve Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 75. Americas Air Bypass Valve Sales Forecast by Country (2027-2032) & (K Units)
Table 76. Americas Air Bypass Valve Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 77. APAC Air Bypass Valve Sales Forecast by Region (2027-2032) & (K Units)
Table 78. APAC Air Bypass Valve Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 79. Europe Air Bypass Valve Sales Forecast by Country (2027-2032) & (K Units)
Table 80. Europe Air Bypass Valve Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 81. Middle East & Africa Air Bypass Valve Sales Forecast by Country (2027-2032) & (K Units)
Table 82. Middle East & Africa Air Bypass Valve Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 83. Global Air Bypass Valve Sales Forecast by Type (2027-2032) & (K Units)
Table 84. Global Air Bypass Valve Revenue Forecast by Type (2027-2032) & (\$ millions)
Table 85. Global Air Bypass Valve Sales Forecast by Application (2027-2032) & (K Units)
Table 86. Global Air Bypass Valve Revenue Forecast by Application (2027-2032) & (\$

millions)

Table 87. Honeywell International Inc. Basic Information, Air Bypass Valve Manufacturing Base, Sales Area and Its Competitors

Table 88. Honeywell International Inc. Air Bypass Valve Product Portfolios and Specifications

Table 89. Honeywell International Inc. Air Bypass Valve Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 90. Honeywell International Inc. Main Business

Table 91. Honeywell International Inc. Latest Developments

Table 92. Hitachi, Ltd. Basic Information, Air Bypass Valve Manufacturing Base, Sales Area and Its Competitors

Table 93. Hitachi, Ltd. Air Bypass Valve Product Portfolios and Specifications

Table 94. Hitachi, Ltd. Air Bypass Valve Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 95. Hitachi, Ltd. Main Business

Table 96. Hitachi, Ltd. Latest Developments

Table 97. Mitsubishi Electric Corporation Basic Information, Air Bypass Valve Manufacturing Base, Sales Area and Its Competitors

Table 98. Mitsubishi Electric Corporation Air Bypass Valve Product Portfolios and Specifications

Table 99. Mitsubishi Electric Corporation Air Bypass Valve Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 100. Mitsubishi Electric Corporation Main Business

Table 101. Mitsubishi Electric Corporation Latest Developments

Table 102. Emerson Electric Co. Basic Information, Air Bypass Valve Manufacturing Base, Sales Area and Its Competitors

Table 103. Emerson Electric Co. Air Bypass Valve Product Portfolios and Specifications

Table 104. Emerson Electric Co. Air Bypass Valve Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 105. Emerson Electric Co. Main Business

Table 106. Emerson Electric Co. Latest Developments

Table 107. Parker Hannifin Corporation Basic Information, Air Bypass Valve Manufacturing Base, Sales Area and Its Competitors

Table 108. Parker Hannifin Corporation Air Bypass Valve Product Portfolios and Specifications

Table 109. Parker Hannifin Corporation Air Bypass Valve Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 110. Parker Hannifin Corporation Main Business

Table 111. Parker Hannifin Corporation Latest Developments

Table 112. Swagelok Company Basic Information, Air Bypass Valve Manufacturing Base, Sales Area and Its Competitors

Table 113. Swagelok Company Air Bypass Valve Product Portfolios and Specifications

Table 114. Swagelok Company Air Bypass Valve Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 115. Swagelok Company Main Business

Table 116. Swagelok Company Latest Developments

Table 117. AEM Basic Information, Air Bypass Valve Manufacturing Base, Sales Area and Its Competitors

Table 118. AEM Air Bypass Valve Product Portfolios and Specifications

Table 119. AEM Air Bypass Valve Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 120. AEM Main Business

Table 121. AEM Latest Developments

Table 122. GM Genuine Parts Basic Information, Air Bypass Valve Manufacturing Base, Sales Area and Its Competitors

Table 123. GM Genuine Parts Air Bypass Valve Product Portfolios and Specifications

Table 124. GM Genuine Parts Air Bypass Valve Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 125. GM Genuine Parts Main Business

Table 126. GM Genuine Parts Latest Developments

Table 127. Honda Tech Basic Information, Air Bypass Valve Manufacturing Base, Sales Area and Its Competitors

Table 128. Honda Tech Air Bypass Valve Product Portfolios and Specifications

Table 129. Honda Tech Air Bypass Valve Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 130. Honda Tech Main Business

Table 131. Honda Tech Latest Developments

Table 132. Hankison Basic Information, Air Bypass Valve Manufacturing Base, Sales Area and Its Competitors

Table 133. Hankison Air Bypass Valve Product Portfolios and Specifications

Table 134. Hankison Air Bypass Valve Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 135. Hankison Main Business

Table 136. Hankison Latest Developments

Table 137. Valcor Engineering Corporation Basic Information, Air Bypass Valve Manufacturing Base, Sales Area and Its Competitors

Table 138. Valcor Engineering Corporation Air Bypass Valve Product Portfolios and Specifications

Table 139. Valcor Engineering Corporation Air Bypass Valve Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 140. Valcor Engineering Corporation Main Business

Table 141. Valcor Engineering Corporation Latest Developments

Table 142. Borkert Fluid Control Systems Basic Information, Air Bypass Valve Manufacturing Base, Sales Area and Its Competitors

Table 143. Borkert Fluid Control Systems Air Bypass Valve Product Portfolios and Specifications

Table 144. Borkert Fluid Control Systems Air Bypass Valve Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 145. Borkert Fluid Control Systems Main Business

Table 146. Borkert Fluid Control Systems Latest Developments

Table 147. Alfa Laval AB Basic Information, Air Bypass Valve Manufacturing Base, Sales Area and Its Competitors

Table 148. Alfa Laval AB Air Bypass Valve Product Portfolios and Specifications

Table 149. Alfa Laval AB Air Bypass Valve Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 150. Alfa Laval AB Main Business

Table 151. Alfa Laval AB Latest Developments

Table 152. Spirax Sarco Engineering plc Basic Information, Air Bypass Valve Manufacturing Base, Sales Area and Its Competitors

Table 153. Spirax Sarco Engineering plc Air Bypass Valve Product Portfolios and Specifications

Table 154. Spirax Sarco Engineering plc Air Bypass Valve Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 155. Spirax Sarco Engineering plc Main Business

Table 156. Spirax Sarco Engineering plc Latest Developments

Table 157. GEM? Gebr. M?ller Apparatebau GmbH & Co. KG Basic Information, Air Bypass Valve Manufacturing Base, Sales Area and Its Competitors

Table 158. GEM? Gebr. M?ller Apparatebau GmbH & Co. KG Air Bypass Valve Product Portfolios and Specifications

Table 159. GEM? Gebr. M?ller Apparatebau GmbH & Co. KG Air Bypass Valve Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 160. GEM? Gebr. M?ller Apparatebau GmbH & Co. KG Main Business

Table 161. GEM? Gebr. M?ller Apparatebau GmbH & Co. KG Latest Developments

Table 162. AIRTAC International Group Basic Information, Air Bypass Valve Manufacturing Base, Sales Area and Its Competitors

Table 163. AIRTAC International Group Air Bypass Valve Product Portfolios and Specifications

Table 164. AIRTAC International Group Air Bypass Valve Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 165. AIRTAC International Group Main Business

Table 166. AIRTAC International Group Latest Developments

Table 167. Mindman Industrial Co., Ltd. Basic Information, Air Bypass Valve Manufacturing Base, Sales Area and Its Competitors

Table 168. Mindman Industrial Co., Ltd. Air Bypass Valve Product Portfolios and Specifications

Table 169. Mindman Industrial Co., Ltd. Air Bypass Valve Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 170. Mindman Industrial Co., Ltd. Main Business

Table 171. Mindman Industrial Co., Ltd. Latest Developments

Table 172. SMC Corporation Basic Information, Air Bypass Valve Manufacturing Base, Sales Area and Its Competitors

Table 173. SMC Corporation Air Bypass Valve Product Portfolios and Specifications

Table 174. SMC Corporation Air Bypass Valve Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 175. SMC Corporation Main Business

Table 176. SMC Corporation Latest Developments

Table 177. Festo SE & Co. KG Basic Information, Air Bypass Valve Manufacturing Base, Sales Area and Its Competitors

Table 178. Festo SE & Co. KG Air Bypass Valve Product Portfolios and Specifications

Table 179. Festo SE & Co. KG Air Bypass Valve Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 180. Festo SE & Co. KG Main Business

Table 181. Festo SE & Co. KG Latest Developments

Table 182. KORVAL Basic Information, Air Bypass Valve Manufacturing Base, Sales Area and Its Competitors

Table 183. KORVAL Air Bypass Valve Product Portfolios and Specifications

Table 184. KORVAL Air Bypass Valve Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 185. KORVAL Main Business

Table 186. KORVAL Latest Developments

Table 187. Air Mac Inc. Basic Information, Air Bypass Valve Manufacturing Base, Sales Area and Its Competitors

Table 188. Air Mac Inc. Air Bypass Valve Product Portfolios and Specifications

Table 189. Air Mac Inc. Air Bypass Valve Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 190. Air Mac Inc. Main Business

Table 191. Air Mac Inc. Latest Developments

Table 192. BorgWarner Inc. Basic Information, Air Bypass Valve Manufacturing Base, Sales Area and Its Competitors

Table 193. BorgWarner Inc. Air Bypass Valve Product Portfolios and Specifications

Table 194. BorgWarner Inc. Air Bypass Valve Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 195. BorgWarner Inc. Main Business

Table 196. BorgWarner Inc. Latest Developments

Table 197. Continental AG Basic Information, Air Bypass Valve Manufacturing Base, Sales Area and Its Competitors

Table 198. Continental AG Air Bypass Valve Product Portfolios and Specifications

Table 199. Continental AG Air Bypass Valve Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 200. Continental AG Main Business

Table 201. Continental AG Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Air Bypass Valve
- Figure 2. Air Bypass Valve Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Air Bypass Valve Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global Air Bypass Valve Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Air Bypass Valve Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Air Bypass Valve Sales Market Share by Country/Region (2025)
- Figure 10. Air Bypass Valve Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Pressure Bypass Valves
- Figure 12. Product Picture of Self-operated Bypass Valves
- Figure 13. Global Air Bypass Valve Sales Market Share by Type in 2026
- Figure 14. Global Air Bypass Valve Revenue Market Share by Type (2021-2026)
- Figure 15. Product Picture of 2-Way (Inlet + Outlet)
- Figure 16. Product Picture of 3-Way (Inlet + Outlet + Exhaust/Dump)
- Figure 17. Global Air Bypass Valve Sales Market Share by Port Configuration in 2026
- Figure 18. Global Air Bypass Valve Revenue Market Share by Port Configuration (2021-2026)
- Figure 19. Product Picture of Low Pressure (Figure 20. Product Picture of Medium Pressure (10-50 bar)
- Figure 21. Product Picture of High Pressure (> 50 bar)
- Figure 22. Global Air Bypass Valve Sales Market Share by Pressure Rating in 2026
- Figure 23. Global Air Bypass Valve Revenue Market Share by Pressure Rating (2021-2026)
- Figure 24. Air Bypass Valve Consumed in Automotive
- Figure 25. Global Air Bypass Valve Market: Automotive (2021-2026) & (K Units)
- Figure 26. Air Bypass Valve Consumed in Industrial Pneumatic Systems
- Figure 27. Global Air Bypass Valve Market: Industrial Pneumatic Systems (2021-2026) & (K Units)
- Figure 28. Air Bypass Valve Consumed in HVAC & Building Automation
- Figure 29. Global Air Bypass Valve Market: HVAC & Building Automation (2021-2026) & (K Units)

- Figure 30. Air Bypass Valve Consumed in Aerospace
- Figure 31. Global Air Bypass Valve Market: Aerospace (2021-2026) & (K Units)
- Figure 32. Air Bypass Valve Consumed in Oil & Gas
- Figure 33. Global Air Bypass Valve Market: Oil & Gas (2021-2026) & (K Units)
- Figure 34. Air Bypass Valve Consumed in Others
- Figure 35. Global Air Bypass Valve Market: Others (2021-2026) & (K Units)
- Figure 36. Global Air Bypass Valve Sale Market Share by Application (2025)
- Figure 37. Global Air Bypass Valve Revenue Market Share by Application in 2025
- Figure 38. Air Bypass Valve Sales by Company in 2025 (K Units)
- Figure 39. Global Air Bypass Valve Sales Market Share by Company in 2025
- Figure 40. Air Bypass Valve Revenue by Company in 2025 (\$ millions)
- Figure 41. Global Air Bypass Valve Revenue Market Share by Company in 2025
- Figure 42. Global Air Bypass Valve Sales Market Share by Geographic Region (2021-2026)
- Figure 43. Global Air Bypass Valve Revenue Market Share by Geographic Region in 2025
- Figure 44. Americas Air Bypass Valve Sales 2021-2026 (K Units)
- Figure 45. Americas Air Bypass Valve Revenue 2021-2026 (\$ millions)
- Figure 46. APAC Air Bypass Valve Sales 2021-2026 (K Units)
- Figure 47. APAC Air Bypass Valve Revenue 2021-2026 (\$ millions)
- Figure 48. Europe Air Bypass Valve Sales 2021-2026 (K Units)
- Figure 49. Europe Air Bypass Valve Revenue 2021-2026 (\$ millions)
- Figure 50. Middle East & Africa Air Bypass Valve Sales 2021-2026 (K Units)
- Figure 51. Middle East & Africa Air Bypass Valve Revenue 2021-2026 (\$ millions)
- Figure 52. Americas Air Bypass Valve Sales Market Share by Country in 2025
- Figure 53. Americas Air Bypass Valve Revenue Market Share by Country (2021-2026)
- Figure 54. Americas Air Bypass Valve Sales Market Share by Type (2021-2026)
- Figure 55. Americas Air Bypass Valve Sales Market Share by Application (2021-2026)
- Figure 56. United States Air Bypass Valve Revenue Growth 2021-2026 (\$ millions)
- Figure 57. Canada Air Bypass Valve Revenue Growth 2021-2026 (\$ millions)
- Figure 58. Mexico Air Bypass Valve Revenue Growth 2021-2026 (\$ millions)
- Figure 59. Brazil Air Bypass Valve Revenue Growth 2021-2026 (\$ millions)
- Figure 60. APAC Air Bypass Valve Sales Market Share by Region in 2025
- Figure 61. APAC Air Bypass Valve Revenue Market Share by Region (2021-2026)
- Figure 62. APAC Air Bypass Valve Sales Market Share by Type (2021-2026)
- Figure 63. APAC Air Bypass Valve Sales Market Share by Application (2021-2026)
- Figure 64. China Air Bypass Valve Revenue Growth 2021-2026 (\$ millions)
- Figure 65. Japan Air Bypass Valve Revenue Growth 2021-2026 (\$ millions)
- Figure 66. South Korea Air Bypass Valve Revenue Growth 2021-2026 (\$ millions)

- Figure 67. Southeast Asia Air Bypass Valve Revenue Growth 2021-2026 (\$ millions)
- Figure 68. India Air Bypass Valve Revenue Growth 2021-2026 (\$ millions)
- Figure 69. Australia Air Bypass Valve Revenue Growth 2021-2026 (\$ millions)
- Figure 70. China Taiwan Air Bypass Valve Revenue Growth 2021-2026 (\$ millions)
- Figure 71. Europe Air Bypass Valve Sales Market Share by Country in 2025
- Figure 72. Europe Air Bypass Valve Revenue Market Share by Country (2021-2026)
- Figure 73. Europe Air Bypass Valve Sales Market Share by Type (2021-2026)
- Figure 74. Europe Air Bypass Valve Sales Market Share by Application (2021-2026)
- Figure 75. Germany Air Bypass Valve Revenue Growth 2021-2026 (\$ millions)
- Figure 76. France Air Bypass Valve Revenue Growth 2021-2026 (\$ millions)
- Figure 77. UK Air Bypass Valve Revenue Growth 2021-2026 (\$ millions)
- Figure 78. Italy Air Bypass Valve Revenue Growth 2021-2026 (\$ millions)
- Figure 79. Russia Air Bypass Valve Revenue Growth 2021-2026 (\$ millions)
- Figure 80. Middle East & Africa Air Bypass Valve Sales Market Share by Country (2021-2026)
- Figure 81. Middle East & Africa Air Bypass Valve Sales Market Share by Type (2021-2026)
- Figure 82. Middle East & Africa Air Bypass Valve Sales Market Share by Application (2021-2026)
- Figure 83. Egypt Air Bypass Valve Revenue Growth 2021-2026 (\$ millions)
- Figure 84. South Africa Air Bypass Valve Revenue Growth 2021-2026 (\$ millions)
- Figure 85. Israel Air Bypass Valve Revenue Growth 2021-2026 (\$ millions)
- Figure 86. Turkey Air Bypass Valve Revenue Growth 2021-2026 (\$ millions)
- Figure 87. GCC Countries Air Bypass Valve Revenue Growth 2021-2026 (\$ millions)
- Figure 88. Manufacturing Cost Structure Analysis of Air Bypass Valve in 2026
- Figure 89. Manufacturing Process Analysis of Air Bypass Valve
- Figure 90. Industry Chain Structure of Air Bypass Valve
- Figure 91. Channels of Distribution
- Figure 92. Global Air Bypass Valve Sales Market Forecast by Region (2027-2032)
- Figure 93. Global Air Bypass Valve Revenue Market Share Forecast by Region (2027-2032)
- Figure 94. Global Air Bypass Valve Sales Market Share Forecast by Type (2027-2032)
- Figure 95. Global Air Bypass Valve Revenue Market Share Forecast by Type (2027-2032)
- Figure 96. Global Air Bypass Valve Sales Market Share Forecast by Application (2027-2032)
- Figure 97. Global Air Bypass Valve Revenue Market Share Forecast by Application (2027-2032)

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