

# Global Supercritical Back Pressure Regulators Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Supercritical Back Pressure Regulators market size is expected to reach \$ 187 million by 2032, rising at a market growth of 4.9% CAGR during the forecast period (2026-2032).

The Supercritical CO<sub>2</sub> Back Pressure Regulator is a critical component designed to maintain the integrity of the supercritical CO<sub>2</sub> system by ensuring controlled pressure levels. It serves as a safeguard against pressure fluctuations that could compromise system performance and safety. The regulator operates by selectively releasing excess pressure, thus preventing over-pressurization and maintaining optimal conditions for the supercritical CO<sub>2</sub> process. This precise control is essential for the efficient and safe operation of supercritical CO<sub>2</sub> systems, ensuring consistent and reliable performance. In 2025, global Precision Liquid-Cooled GPU Server production reached approximately 108.3 k units with an average global market price of around US\$1200 per unit.

As technology advances and market demands grow, the Supercritical CO<sub>2</sub> Back Pressure Regulator industry is witnessing notable trends. The industry is actively advancing the development of integrated system solutions, aiming to enhance efficiency and deliver greater value to customers through optimized processes. The integration of intelligent and automated technologies is expected to further refine the control mechanisms of the regulators, while reducing labor costs and enhancing the economic benefits of enterprises. The introduction of new materials and manufacturing processes is anticipated to effectively lower production costs and improve the market competitiveness of the products. With the expansion of the global market and the tightening of environmental regulations, the demand for Supercritical CO<sub>2</sub> Back Pressure Regulators is projected to continue rising, creating new growth opportunities and profit margins for businesses. Moreover, customized services tailored to specific

customer requirements will be a key strategy for enterprises to enhance market competitiveness and strengthen customer relationships. Overall, the Supercritical CO2 Back Pressure Regulator industry holds a promising outlook, with companies needing to keep pace with technological innovation and strengthen their market adaptability to achieve sustainable growth.

This report studies the global Supercritical Back Pressure Regulators production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Supercritical Back Pressure Regulators and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Supercritical Back Pressure Regulators that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Supercritical Back Pressure Regulators total production and demand, 2021-2032, (K Units)

Global Supercritical Back Pressure Regulators total production value, 2021-2032, (USD Million)

Global Supercritical Back Pressure Regulators production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Supercritical Back Pressure Regulators consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Supercritical Back Pressure Regulators domestic production, consumption, key domestic manufacturers and share

Global Supercritical Back Pressure Regulators production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Supercritical Back Pressure Regulators production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Supercritical Back Pressure Regulators production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Supercritical Back Pressure Regulators market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Pressure Control Solutions, Equilibar, Premier Industries, Shimadzu, JASCO, Waters, Vinci Technologies, Core Laboratories, MANKENBERG, Pressure Tech, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Supercritical Back Pressure Regulators market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (USD/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Supercritical Back Pressure Regulators Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Supercritical Back Pressure Regulators Market, Segmentation by Type:

Stainless Steel Material

Hasteloy Material

Other

#### Global Supercritical Back Pressure Regulators Market, Segmentation by Structural:

Diaphragm-type Supercritical BPR

Piston-type Supercritical BPR

#### Global Supercritical Back Pressure Regulators Market, Segmentation by Pressure Rating:

0-30 Mpa

30-60 Mpa

?60 Mpa

#### Global Supercritical Back Pressure Regulators Market, Segmentation by Application:

Biochemistry

Engineering Manufacturing

Food & Beverage

Pharmaceutical

Other

#### Companies Profiled:

Pressure Control Solutions

Equilibar

Premier Industries

Shimadzu

JASCO

Waters

Vinci Technologies

Core Laboratories

MANKENBERG

Pressure Tech

Emerson

GCE Group

#### **Key Questions Answered:**

1. How big is the global Supercritical Back Pressure Regulators market?
2. What is the demand of the global Supercritical Back Pressure Regulators market?
3. What is the year over year growth of the global Supercritical Back Pressure Regulators market?
4. What is the production and production value of the global Supercritical Back Pressure Regulators market?

5. Who are the key producers in the global Supercritical Back Pressure Regulators market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Supercritical Back Pressure Regulators Introduction
- 1.2 World Supercritical Back Pressure Regulators Supply & Forecast
  - 1.2.1 World Supercritical Back Pressure Regulators Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Supercritical Back Pressure Regulators Production (2021-2032)
  - 1.2.3 World Supercritical Back Pressure Regulators Pricing Trends (2021-2032)
- 1.3 World Supercritical Back Pressure Regulators Production by Region (Based on Production Site)
  - 1.3.1 World Supercritical Back Pressure Regulators Production Value by Region (2021-2032)
  - 1.3.2 World Supercritical Back Pressure Regulators Production by Region (2021-2032)
  - 1.3.3 World Supercritical Back Pressure Regulators Average Price by Region (2021-2032)
  - 1.3.4 North America Supercritical Back Pressure Regulators Production (2021-2032)
  - 1.3.5 Europe Supercritical Back Pressure Regulators Production (2021-2032)
  - 1.3.6 China Supercritical Back Pressure Regulators Production (2021-2032)
  - 1.3.7 Japan Supercritical Back Pressure Regulators Production (2021-2032)
  - 1.3.8 Southeast Asia Supercritical Back Pressure Regulators Production (2021-2032)
  - 1.3.9 India Supercritical Back Pressure Regulators Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Supercritical Back Pressure Regulators Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Supercritical Back Pressure Regulators Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Supercritical Back Pressure Regulators Demand (2021-2032)
- 2.2 World Supercritical Back Pressure Regulators Consumption by Region
  - 2.2.1 World Supercritical Back Pressure Regulators Consumption by Region (2021-2026)
  - 2.2.2 World Supercritical Back Pressure Regulators Consumption Forecast by Region (2027-2032)
- 2.3 United States Supercritical Back Pressure Regulators Consumption (2021-2032)
- 2.4 China Supercritical Back Pressure Regulators Consumption (2021-2032)
- 2.5 Europe Supercritical Back Pressure Regulators Consumption (2021-2032)

- 2.6 Japan Supercritical Back Pressure Regulators Consumption (2021-2032)
- 2.7 South Korea Supercritical Back Pressure Regulators Consumption (2021-2032)
- 2.8 ASEAN Supercritical Back Pressure Regulators Consumption (2021-2032)
- 2.9 India Supercritical Back Pressure Regulators Consumption (2021-2032)

### **3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS**

- 3.1 World Supercritical Back Pressure Regulators Production Value by Manufacturer (2021-2026)
- 3.2 World Supercritical Back Pressure Regulators Production by Manufacturer (2021-2026)
- 3.3 World Supercritical Back Pressure Regulators Average Price by Manufacturer (2021-2026)
- 3.4 Supercritical Back Pressure Regulators Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global Supercritical Back Pressure Regulators Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for Supercritical Back Pressure Regulators in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for Supercritical Back Pressure Regulators in 2025
- 3.6 Supercritical Back Pressure Regulators Market: Overall Company Footprint Analysis
  - 3.6.1 Supercritical Back Pressure Regulators Market: Region Footprint
  - 3.6.2 Supercritical Back Pressure Regulators Market: Company Product Type Footprint
  - 3.6.3 Supercritical Back Pressure Regulators Market: Company Product Application Footprint
- 3.7 Competitive Environment
  - 3.7.1 Historical Structure of the Industry
  - 3.7.2 Barriers of Market Entry
  - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

### **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

- 4.1 United States VS China: Supercritical Back Pressure Regulators Production Value Comparison
  - 4.1.1 United States VS China: Supercritical Back Pressure Regulators Production

Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Supercritical Back Pressure Regulators Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Supercritical Back Pressure Regulators Production Comparison

4.2.1 United States VS China: Supercritical Back Pressure Regulators Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Supercritical Back Pressure Regulators Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Supercritical Back Pressure Regulators Consumption Comparison

4.3.1 United States VS China: Supercritical Back Pressure Regulators Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Supercritical Back Pressure Regulators Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Supercritical Back Pressure Regulators Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Supercritical Back Pressure Regulators Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Supercritical Back Pressure Regulators Production Value (2021-2026)

4.4.3 United States Based Manufacturers Supercritical Back Pressure Regulators Production (2021-2026)

4.5 China Based Supercritical Back Pressure Regulators Manufacturers and Market Share

4.5.1 China Based Supercritical Back Pressure Regulators Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Supercritical Back Pressure Regulators Production Value (2021-2026)

4.5.3 China Based Manufacturers Supercritical Back Pressure Regulators Production (2021-2026)

4.6 Rest of World Based Supercritical Back Pressure Regulators Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Supercritical Back Pressure Regulators Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Supercritical Back Pressure Regulators Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Supercritical Back Pressure Regulators Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World Supercritical Back Pressure Regulators Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Stainless Steel Material

5.2.2 Hasteloy Material

5.2.3 Other

5.3 Market Segment by Type

5.3.1 World Supercritical Back Pressure Regulators Production by Type (2021-2032)

5.3.2 World Supercritical Back Pressure Regulators Production Value by Type (2021-2032)

5.3.3 World Supercritical Back Pressure Regulators Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY STRUCTURAL**

6.1 World Supercritical Back Pressure Regulators Market Size Overview by Structural: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Structural

6.2.1 Diaphragm-type Supercritical BPR

6.2.2 Piston-type Supercritical BPR

6.3 Market Segment by Structural

6.3.1 World Supercritical Back Pressure Regulators Production by Structural (2021-2032)

6.3.2 World Supercritical Back Pressure Regulators Production Value by Structural (2021-2032)

6.3.3 World Supercritical Back Pressure Regulators Average Price by Structural (2021-2032)

## **7 MARKET ANALYSIS BY PRESSURE RATING**

7.1 World Supercritical Back Pressure Regulators Market Size Overview by Pressure Rating: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Pressure Rating

7.2.1 0-30 Mpa

7.2.2 30-60 Mpa

7.2.3 ?60 Mpa

## 7.3 Market Segment by Pressure Rating

7.3.1 World Supercritical Back Pressure Regulators Production by Pressure Rating (2021-2032)

7.3.2 World Supercritical Back Pressure Regulators Production Value by Pressure Rating (2021-2032)

7.3.3 World Supercritical Back Pressure Regulators Average Price by Pressure Rating (2021-2032)

## 8 MARKET ANALYSIS BY APPLICATION

8.1 World Supercritical Back Pressure Regulators Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Biochemistry

8.2.2 Engineering Manufacturing

8.2.3 Food & Beverage

8.2.4 Pharmaceutical

8.2.5 Other

8.3 Market Segment by Application

8.3.1 World Supercritical Back Pressure Regulators Production by Application (2021-2032)

8.3.2 World Supercritical Back Pressure Regulators Production Value by Application (2021-2032)

8.3.3 World Supercritical Back Pressure Regulators Average Price by Application (2021-2032)

## 9 COMPANY PROFILES

9.1 Pressure Control Solutions

9.1.1 Pressure Control Solutions Details

9.1.2 Pressure Control Solutions Major Business

9.1.3 Pressure Control Solutions Supercritical Back Pressure Regulators Product and Services

9.1.4 Pressure Control Solutions Supercritical Back Pressure Regulators Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Pressure Control Solutions Recent Developments/Updates

9.1.6 Pressure Control Solutions Competitive Strengths & Weaknesses

9.2 Equilibrar

9.2.1 Equilibrar Details

- 9.2.2 Equilibar Major Business
- 9.2.3 Equilibar Supercritical Back Pressure Regulators Product and Services
- 9.2.4 Equilibar Supercritical Back Pressure Regulators Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.2.5 Equilibar Recent Developments/Updates
- 9.2.6 Equilibar Competitive Strengths & Weaknesses
- 9.3 Premier Industries
  - 9.3.1 Premier Industries Details
  - 9.3.2 Premier Industries Major Business
  - 9.3.3 Premier Industries Supercritical Back Pressure Regulators Product and Services
  - 9.3.4 Premier Industries Supercritical Back Pressure Regulators Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.3.5 Premier Industries Recent Developments/Updates
  - 9.3.6 Premier Industries Competitive Strengths & Weaknesses
- 9.4 Shimadzu
  - 9.4.1 Shimadzu Details
  - 9.4.2 Shimadzu Major Business
  - 9.4.3 Shimadzu Supercritical Back Pressure Regulators Product and Services
  - 9.4.4 Shimadzu Supercritical Back Pressure Regulators Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.4.5 Shimadzu Recent Developments/Updates
  - 9.4.6 Shimadzu Competitive Strengths & Weaknesses
- 9.5 JASCO
  - 9.5.1 JASCO Details
  - 9.5.2 JASCO Major Business
  - 9.5.3 JASCO Supercritical Back Pressure Regulators Product and Services
  - 9.5.4 JASCO Supercritical Back Pressure Regulators Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.5.5 JASCO Recent Developments/Updates
  - 9.5.6 JASCO Competitive Strengths & Weaknesses
- 9.6 Waters
  - 9.6.1 Waters Details
  - 9.6.2 Waters Major Business
  - 9.6.3 Waters Supercritical Back Pressure Regulators Product and Services
  - 9.6.4 Waters Supercritical Back Pressure Regulators Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.6.5 Waters Recent Developments/Updates
  - 9.6.6 Waters Competitive Strengths & Weaknesses
- 9.7 Vinci Technologies

- 9.7.1 Vinci Technologies Details
- 9.7.2 Vinci Technologies Major Business
- 9.7.3 Vinci Technologies Supercritical Back Pressure Regulators Product and Services
- 9.7.4 Vinci Technologies Supercritical Back Pressure Regulators Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.7.5 Vinci Technologies Recent Developments/Updates
- 9.7.6 Vinci Technologies Competitive Strengths & Weaknesses
- 9.8 Core Laboratories
  - 9.8.1 Core Laboratories Details
  - 9.8.2 Core Laboratories Major Business
  - 9.8.3 Core Laboratories Supercritical Back Pressure Regulators Product and Services
  - 9.8.4 Core Laboratories Supercritical Back Pressure Regulators Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.8.5 Core Laboratories Recent Developments/Updates
  - 9.8.6 Core Laboratories Competitive Strengths & Weaknesses
- 9.9 MANKENBERG
  - 9.9.1 MANKENBERG Details
  - 9.9.2 MANKENBERG Major Business
  - 9.9.3 MANKENBERG Supercritical Back Pressure Regulators Product and Services
  - 9.9.4 MANKENBERG Supercritical Back Pressure Regulators Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.9.5 MANKENBERG Recent Developments/Updates
  - 9.9.6 MANKENBERG Competitive Strengths & Weaknesses
- 9.10 Pressure Tech
  - 9.10.1 Pressure Tech Details
  - 9.10.2 Pressure Tech Major Business
  - 9.10.3 Pressure Tech Supercritical Back Pressure Regulators Product and Services
  - 9.10.4 Pressure Tech Supercritical Back Pressure Regulators Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.10.5 Pressure Tech Recent Developments/Updates
  - 9.10.6 Pressure Tech Competitive Strengths & Weaknesses
- 9.11 Emerson
  - 9.11.1 Emerson Details
  - 9.11.2 Emerson Major Business
  - 9.11.3 Emerson Supercritical Back Pressure Regulators Product and Services
  - 9.11.4 Emerson Supercritical Back Pressure Regulators Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.11.5 Emerson Recent Developments/Updates
  - 9.11.6 Emerson Competitive Strengths & Weaknesses

## 9.12 GCE Group

### 9.12.1 GCE Group Details

### 9.12.2 GCE Group Major Business

### 9.12.3 GCE Group Supercritical Back Pressure Regulators Product and Services

### 9.12.4 GCE Group Supercritical Back Pressure Regulators Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.12.5 GCE Group Recent Developments/Updates

### 9.12.6 GCE Group Competitive Strengths & Weaknesses

## 10 INDUSTRY CHAIN ANALYSIS

### 10.1 Supercritical Back Pressure Regulators Industry Chain

### 10.2 Supercritical Back Pressure Regulators Upstream Analysis

#### 10.2.1 Supercritical Back Pressure Regulators Core Raw Materials

#### 10.2.2 Main Manufacturers of Supercritical Back Pressure Regulators Core Raw Materials

### 10.3 Midstream Analysis

### 10.4 Downstream Analysis

### 10.5 Supercritical Back Pressure Regulators Production Mode

### 10.6 Supercritical Back Pressure Regulators Procurement Model

### 10.7 Supercritical Back Pressure Regulators Industry Sales Model and Sales Channels

#### 10.7.1 Supercritical Back Pressure Regulators Sales Model

#### 10.7.2 Supercritical Back Pressure Regulators Typical Distributors

## 11 RESEARCH FINDINGS AND CONCLUSION

## 12 APPENDIX

### 12.1 Methodology

### 12.2 Research Process and Data Source

### 12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Supercritical Back Pressure Regulators Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Supercritical Back Pressure Regulators Production Value by Region (2021-2026) & (USD Million)

Table 3. World Supercritical Back Pressure Regulators Production Value by Region (2027-2032) & (USD Million)

Table 4. World Supercritical Back Pressure Regulators Production Value Market Share by Region (2021-2026)

Table 5. World Supercritical Back Pressure Regulators Production Value Market Share by Region (2027-2032)

Table 6. World Supercritical Back Pressure Regulators Production by Region (2021-2026) & (K Units)

Table 7. World Supercritical Back Pressure Regulators Production by Region (2027-2032) & (K Units)

Table 8. World Supercritical Back Pressure Regulators Production Market Share by Region (2021-2026)

Table 9. World Supercritical Back Pressure Regulators Production Market Share by Region (2027-2032)

Table 10. World Supercritical Back Pressure Regulators Average Price by Region (2021-2026) & (USD/Unit)

Table 11. World Supercritical Back Pressure Regulators Average Price by Region (2027-2032) & (USD/Unit)

Table 12. Supercritical Back Pressure Regulators Major Market Trends

Table 13. World Supercritical Back Pressure Regulators Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Supercritical Back Pressure Regulators Consumption by Region (2021-2026) & (K Units)

Table 15. World Supercritical Back Pressure Regulators Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Supercritical Back Pressure Regulators Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Supercritical Back Pressure Regulators Producers in 2025

Table 18. World Supercritical Back Pressure Regulators Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Supercritical Back Pressure Regulators Producers in 2025

Table 20. World Supercritical Back Pressure Regulators Average Price by Manufacturer (2021-2026) & (USD/Unit)

Table 21. Global Supercritical Back Pressure Regulators Company Evaluation Quadrant

Table 22. World Supercritical Back Pressure Regulators Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Supercritical Back Pressure Regulators Production Site of Key Manufacturer

Table 24. Supercritical Back Pressure Regulators Market: Company Product Type Footprint

Table 25. Supercritical Back Pressure Regulators Market: Company Product Application Footprint

Table 26. Supercritical Back Pressure Regulators Competitive Factors

Table 27. Supercritical Back Pressure Regulators New Entrant and Capacity Expansion Plans

Table 28. Supercritical Back Pressure Regulators Mergers & Acquisitions Activity

Table 29. United States VS China Supercritical Back Pressure Regulators Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Supercritical Back Pressure Regulators Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Supercritical Back Pressure Regulators Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Supercritical Back Pressure Regulators Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Supercritical Back Pressure Regulators Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Supercritical Back Pressure Regulators Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Supercritical Back Pressure Regulators Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Supercritical Back Pressure Regulators Production Market Share (2021-2026)

Table 37. China Based Supercritical Back Pressure Regulators Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Supercritical Back Pressure Regulators Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Supercritical Back Pressure Regulators Production Value Market Share (2021-2026)

- Table 40. China Based Manufacturers Supercritical Back Pressure Regulators Production, (2021-2026) & (K Units)
- Table 41. China Based Manufacturers Supercritical Back Pressure Regulators Production Market Share (2021-2026)
- Table 42. Rest of World Based Supercritical Back Pressure Regulators Manufacturers, Headquarters and Production Site (State, Country)
- Table 43. Rest of World Based Manufacturers Supercritical Back Pressure Regulators Production Value, (2021-2026) & (USD Million)
- Table 44. Rest of World Based Manufacturers Supercritical Back Pressure Regulators Production Value Market Share (2021-2026)
- Table 45. Rest of World Based Manufacturers Supercritical Back Pressure Regulators Production, (2021-2026) & (K Units)
- Table 46. Rest of World Based Manufacturers Supercritical Back Pressure Regulators Production Market Share (2021-2026)
- Table 47. World Supercritical Back Pressure Regulators Production Value by Type, (USD Million), 2021 & 2025 & 2032
- Table 48. World Supercritical Back Pressure Regulators Production by Type (2021-2026) & (K Units)
- Table 49. World Supercritical Back Pressure Regulators Production by Type (2027-2032) & (K Units)
- Table 50. World Supercritical Back Pressure Regulators Production Value by Type (2021-2026) & (USD Million)
- Table 51. World Supercritical Back Pressure Regulators Production Value by Type (2027-2032) & (USD Million)
- Table 52. World Supercritical Back Pressure Regulators Average Price by Type (2021-2026) & (USD/Unit)
- Table 53. World Supercritical Back Pressure Regulators Average Price by Type (2027-2032) & (USD/Unit)
- Table 54. World Supercritical Back Pressure Regulators Production Value by Structural, (USD Million), 2021 & 2025 & 2032
- Table 55. World Supercritical Back Pressure Regulators Production by Structural (2021-2026) & (K Units)
- Table 56. World Supercritical Back Pressure Regulators Production by Structural (2027-2032) & (K Units)
- Table 57. World Supercritical Back Pressure Regulators Production Value by Structural (2021-2026) & (USD Million)
- Table 58. World Supercritical Back Pressure Regulators Production Value by Structural (2027-2032) & (USD Million)
- Table 59. World Supercritical Back Pressure Regulators Average Price by Structural

(2021-2026) & (USD/Unit)

Table 60. World Supercritical Back Pressure Regulators Average Price by Structural (2027-2032) & (USD/Unit)

Table 61. World Supercritical Back Pressure Regulators Production Value by Pressure Rating, (USD Million), 2021 & 2025 & 2032

Table 62. World Supercritical Back Pressure Regulators Production by Pressure Rating (2021-2026) & (K Units)

Table 63. World Supercritical Back Pressure Regulators Production by Pressure Rating (2027-2032) & (K Units)

Table 64. World Supercritical Back Pressure Regulators Production Value by Pressure Rating (2021-2026) & (USD Million)

Table 65. World Supercritical Back Pressure Regulators Production Value by Pressure Rating (2027-2032) & (USD Million)

Table 66. World Supercritical Back Pressure Regulators Average Price by Pressure Rating (2021-2026) & (USD/Unit)

Table 67. World Supercritical Back Pressure Regulators Average Price by Pressure Rating (2027-2032) & (USD/Unit)

Table 68. World Supercritical Back Pressure Regulators Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Supercritical Back Pressure Regulators Production by Application (2021-2026) & (K Units)

Table 70. World Supercritical Back Pressure Regulators Production by Application (2027-2032) & (K Units)

Table 71. World Supercritical Back Pressure Regulators Production Value by Application (2021-2026) & (USD Million)

Table 72. World Supercritical Back Pressure Regulators Production Value by Application (2027-2032) & (USD Million)

Table 73. World Supercritical Back Pressure Regulators Average Price by Application (2021-2026) & (USD/Unit)

Table 74. World Supercritical Back Pressure Regulators Average Price by Application (2027-2032) & (USD/Unit)

Table 75. Pressure Control Solutions Basic Information, Manufacturing Base and Competitors

Table 76. Pressure Control Solutions Major Business

Table 77. Pressure Control Solutions Supercritical Back Pressure Regulators Product and Services

Table 78. Pressure Control Solutions Supercritical Back Pressure Regulators Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 79. Pressure Control Solutions Recent Developments/Updates
- Table 80. Pressure Control Solutions Competitive Strengths & Weaknesses
- Table 81. Equilibar Basic Information, Manufacturing Base and Competitors
- Table 82. Equilibar Major Business
- Table 83. Equilibar Supercritical Back Pressure Regulators Product and Services
- Table 84. Equilibar Supercritical Back Pressure Regulators Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 85. Equilibar Recent Developments/Updates
- Table 86. Equilibar Competitive Strengths & Weaknesses
- Table 87. Premier Industries Basic Information, Manufacturing Base and Competitors
- Table 88. Premier Industries Major Business
- Table 89. Premier Industries Supercritical Back Pressure Regulators Product and Services
- Table 90. Premier Industries Supercritical Back Pressure Regulators Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. Premier Industries Recent Developments/Updates
- Table 92. Premier Industries Competitive Strengths & Weaknesses
- Table 93. Shimadzu Basic Information, Manufacturing Base and Competitors
- Table 94. Shimadzu Major Business
- Table 95. Shimadzu Supercritical Back Pressure Regulators Product and Services
- Table 96. Shimadzu Supercritical Back Pressure Regulators Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. Shimadzu Recent Developments/Updates
- Table 98. Shimadzu Competitive Strengths & Weaknesses
- Table 99. JASCO Basic Information, Manufacturing Base and Competitors
- Table 100. JASCO Major Business
- Table 101. JASCO Supercritical Back Pressure Regulators Product and Services
- Table 102. JASCO Supercritical Back Pressure Regulators Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. JASCO Recent Developments/Updates
- Table 104. JASCO Competitive Strengths & Weaknesses
- Table 105. Waters Basic Information, Manufacturing Base and Competitors
- Table 106. Waters Major Business
- Table 107. Waters Supercritical Back Pressure Regulators Product and Services
- Table 108. Waters Supercritical Back Pressure Regulators Production (K Units), Price

(USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Waters Recent Developments/Updates

Table 110. Waters Competitive Strengths & Weaknesses

Table 111. Vinci Technologies Basic Information, Manufacturing Base and Competitors

Table 112. Vinci Technologies Major Business

Table 113. Vinci Technologies Supercritical Back Pressure Regulators Product and Services

Table 114. Vinci Technologies Supercritical Back Pressure Regulators Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Vinci Technologies Recent Developments/Updates

Table 116. Vinci Technologies Competitive Strengths & Weaknesses

Table 117. Core Laboratories Basic Information, Manufacturing Base and Competitors

Table 118. Core Laboratories Major Business

Table 119. Core Laboratories Supercritical Back Pressure Regulators Product and Services

Table 120. Core Laboratories Supercritical Back Pressure Regulators Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Core Laboratories Recent Developments/Updates

Table 122. Core Laboratories Competitive Strengths & Weaknesses

Table 123. MANKENBERG Basic Information, Manufacturing Base and Competitors

Table 124. MANKENBERG Major Business

Table 125. MANKENBERG Supercritical Back Pressure Regulators Product and Services

Table 126. MANKENBERG Supercritical Back Pressure Regulators Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. MANKENBERG Recent Developments/Updates

Table 128. MANKENBERG Competitive Strengths & Weaknesses

Table 129. Pressure Tech Basic Information, Manufacturing Base and Competitors

Table 130. Pressure Tech Major Business

Table 131. Pressure Tech Supercritical Back Pressure Regulators Product and Services

Table 132. Pressure Tech Supercritical Back Pressure Regulators Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Pressure Tech Recent Developments/Updates

Table 134. Pressure Tech Competitive Strengths & Weaknesses

- Table 135. Emerson Basic Information, Manufacturing Base and Competitors
- Table 136. Emerson Major Business
- Table 137. Emerson Supercritical Back Pressure Regulators Product and Services
- Table 138. Emerson Supercritical Back Pressure Regulators Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 139. Emerson Recent Developments/Updates
- Table 140. Emerson Competitive Strengths & Weaknesses
- Table 141. GCE Group Basic Information, Manufacturing Base and Competitors
- Table 142. GCE Group Major Business
- Table 143. GCE Group Supercritical Back Pressure Regulators Product and Services
- Table 144. GCE Group Supercritical Back Pressure Regulators Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 145. GCE Group Recent Developments/Updates
- Table 146. GCE Group Competitive Strengths & Weaknesses
- Table 147. Global Key Players of Supercritical Back Pressure Regulators Upstream (Raw Materials)
- Table 148. Global Supercritical Back Pressure Regulators Typical Customers
- Table 149. Supercritical Back Pressure Regulators Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Supercritical Back Pressure Regulators Picture

Figure 2. World Supercritical Back Pressure Regulators Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Supercritical Back Pressure Regulators Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Supercritical Back Pressure Regulators Production (2021-2032) & (K Units)

Figure 5. World Supercritical Back Pressure Regulators Average Price (2021-2032) & (USD/Unit)

Figure 6. World Supercritical Back Pressure Regulators Production Value Market Share by Region (2021-2032)

Figure 7. World Supercritical Back Pressure Regulators Production Market Share by Region (2021-2032)

Figure 8. North America Supercritical Back Pressure Regulators Production (2021-2032) & (K Units)

Figure 9. Europe Supercritical Back Pressure Regulators Production (2021-2032) & (K Units)

Figure 10. China Supercritical Back Pressure Regulators Production (2021-2032) & (K Units)

Figure 11. Japan Supercritical Back Pressure Regulators Production (2021-2032) & (K Units)

Figure 12. Southeast Asia Supercritical Back Pressure Regulators Production (2021-2032) & (K Units)

Figure 13. India Supercritical Back Pressure Regulators Production (2021-2032) & (K Units)

Figure 14. Supercritical Back Pressure Regulators Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World Supercritical Back Pressure Regulators Consumption (2021-2032) & (K Units)

Figure 17. World Supercritical Back Pressure Regulators Consumption Market Share by Region (2021-2032)

Figure 18. United States Supercritical Back Pressure Regulators Consumption (2021-2032) & (K Units)

Figure 19. China Supercritical Back Pressure Regulators Consumption (2021-2032) & (K Units)

Figure 20. Europe Supercritical Back Pressure Regulators Consumption (2021-2032) & (K Units)

Figure 21. Japan Supercritical Back Pressure Regulators Consumption (2021-2032) & (K Units)

Figure 22. South Korea Supercritical Back Pressure Regulators Consumption (2021-2032) & (K Units)

Figure 23. ASEAN Supercritical Back Pressure Regulators Consumption (2021-2032) & (K Units)

Figure 24. India Supercritical Back Pressure Regulators Consumption (2021-2032) & (K Units)

Figure 25. Producer Shipments of Supercritical Back Pressure Regulators by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for Supercritical Back Pressure Regulators Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for Supercritical Back Pressure Regulators Markets in 2025

Figure 28. United States VS China: Supercritical Back Pressure Regulators Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Supercritical Back Pressure Regulators Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Supercritical Back Pressure Regulators Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers Supercritical Back Pressure Regulators Production Market Share 2025

Figure 32. China Based Manufacturers Supercritical Back Pressure Regulators Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Supercritical Back Pressure Regulators Production Market Share 2025

Figure 34. World Supercritical Back Pressure Regulators Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World Supercritical Back Pressure Regulators Production Value Market Share by Type in 2025

Figure 36. Stainless Steel Material

Figure 37. Hasteloy Material

Figure 38. Other

Figure 39. World Supercritical Back Pressure Regulators Production Market Share by Type (2021-2032)

Figure 40. World Supercritical Back Pressure Regulators Production Value Market Share by Type (2021-2032)

Figure 41. World Supercritical Back Pressure Regulators Average Price by Type (2021-2032) & (USD/Unit)

Figure 42. World Supercritical Back Pressure Regulators Production Value by Structural, (USD Million), 2021 & 2025 & 2032

Figure 43. World Supercritical Back Pressure Regulators Production Value Market Share by Structural in 2025

Figure 44. Diaphragm-type Supercritical BPR

Figure 45. Piston-type Supercritical BPR

Figure 46. World Supercritical Back Pressure Regulators Production Market Share by Structural (2021-2032)

Figure 47. World Supercritical Back Pressure Regulators Production Value Market Share by Structural (2021-2032)

Figure 48. World Supercritical Back Pressure Regulators Average Price by Structural (2021-2032) & (USD/Unit)

Figure 49. World Supercritical Back Pressure Regulators Production Value by Pressure Rating, (USD Million), 2021 & 2025 & 2032

Figure 50. World Supercritical Back Pressure Regulators Production Value Market Share by Pressure Rating in 2025

Figure 51. 0-30 Mpa

Figure 52. 30-60 Mpa

Figure 53. >60 Mpa

Figure 54. World Supercritical Back Pressure Regulators Production Market Share by Pressure Rating (2021-2032)

Figure 55. World Supercritical Back Pressure Regulators Production Value Market Share by Pressure Rating (2021-2032)

Figure 56. World Supercritical Back Pressure Regulators Average Price by Pressure Rating (2021-2032) & (USD/Unit)

Figure 57. World Supercritical Back Pressure Regulators Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World Supercritical Back Pressure Regulators Production Value Market Share by Application in 2025

Figure 59. Biochemistry

Figure 60. Engineering Manufacturing

Figure 61. Food & Beverage

Figure 62. Pharmaceutical

Figure 63. Other

Figure 64. World Supercritical Back Pressure Regulators Production Market Share by Application (2021-2032)

Figure 65. World Supercritical Back Pressure Regulators Production Value Market

Share by Application (2021-2032)

Figure 66. World Supercritical Back Pressure Regulators Average Price by Application (2021-2032) & (USD/Unit)

Figure 67. Supercritical Back Pressure Regulators Industry Chain

Figure 68. Supercritical Back Pressure Regulators Procurement Model

Figure 69. Supercritical Back Pressure Regulators Sales Model

Figure 70. Supercritical Back Pressure Regulators Sales Channels, Direct Sales, and Distribution

Figure 71. Methodology

Figure 72. Research Process and Data Source

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