

Global Exhaust Brake Valve Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Exhaust Brake Valve market size is expected to reach \$ 813 million by 2032, rising at a market growth of 4.0% CAGR during the forecast period (2026-2032).

The exhaust brake valve is an auxiliary braking component installed within the exhaust system of diesel engines. By closing—either fully or partially—the exhaust passage, it generates exhaust back pressure, thereby creating a retarding force within the engine. This mechanism assists commercial vehicles, passenger buses, construction machinery, and mining vehicles in reducing speed during downhill descents, heavy-load operations, and long-distance travel; it also minimizes wear and thermal fade on the service brakes, thereby enhancing overall vehicle safety and braking stability. In 2025, the global sales volume of exhaust brake valves is projected to reach approximately 18.6 million units, with an average unit price of approximately \$32.50. The capacity utilization rate is expected to be around 76.8%, while the industry's average gross margin is estimated at approximately 24.6%. Upstream enterprises primarily comprise suppliers of cast iron, cast steel, stainless steel, heat-resistant alloys, valve body castings, valve plates, valve shafts, pneumatic actuators, solenoid valves, seals, springs, bearings, sensors, electronic control units (ECUs), surface treatments, and precision machining services. The midstream segment consists of exhaust brake valve manufacturers, engine braking system providers, commercial vehicle component manufacturers, and aftermarket repair parts suppliers. The downstream market encompasses heavy-duty trucks, medium-duty trucks, light-duty trucks, passenger buses, special-purpose vehicles, construction machinery, mining vehicles, agricultural machinery, and the commercial vehicle aftermarket repair sector. Regarding the product cost structure, valve body castings and heat-resistant metal materials account for approximately 26.4% of the total cost; valve plates, valve shafts, and precision-machined components account for about 18.7%; pneumatic or electronically controlled

actuators account for approximately 17.8%; seals, springs, and bearings account for about 8.6%; sensors and control elements account for approximately 7.5%; surface treatments and anti-corrosion processes account for about 5.4%; manufacturing, assembly, testing, and quality control account for approximately 9.2%; packaging, logistics, and after-sales warranty services account for about 3.6%; and R&D validation and certification amortization account for approximately 2.8%. Downstream demand applications include auxiliary braking for heavy-duty trucks, braking assistance for passenger buses operating in mountainous terrain, downhill speed control for construction machinery, safety braking for mining transport vehicles, safety configurations for hazardous chemical transport vehicles, endurance braking for tractor units and dump trucks, replacement parts for the maintenance of aging vehicles, integration with engine exhaust systems, and component supply for commercial vehicle exports. The list of downstream customers includes heavy-duty truck OEMs, diesel engine manufacturers, bus manufacturers, specialized vehicle manufacturers, construction machinery manufacturers, mining equipment enterprises, commercial vehicle maintenance service providers, aftermarket parts distributors, fleet operators, logistics and transportation companies, mining firms, passenger transport companies, and hazardous materials transport enterprises. In terms of demand and business opportunities, policy-driven factors stem from commercial vehicle safety regulations, road transport safety in mountainous regions, stricter emission standards for non-road machinery, enhanced braking safety requirements for heavy-duty trucks, mandatory annual vehicle inspections, and the replacement of aging commercial vehicles. Technological innovation serves as another key driver, manifested in advancements such as electronically controlled exhaust brake valves, high-temperature-resistant sealing materials, lightweight valve bodies, integrated control systems linked to engine ECUs, designs compatible with exhaust after-treatment systems, and vehicle-wide braking energy management. Furthermore, evolving customer demands—particularly among fleet operators—are reflected in heightened requirements for safety, low maintenance costs, extended service life, braking stability, fuel efficiency, and driving comfort. Consequently, business opportunities for exhaust brake valves are concentrated in areas such as increasing their adoption as standard equipment in heavy-duty trucks and buses; providing enhanced braking solutions for mining and mountainous-terrain vehicles; serving the aftermarket repair and replacement sector; supplying components for commercial vehicles destined for export markets; supporting upgrades to engine platforms; and facilitating the transition from traditional mechanical valves to electronically controlled, highly reliable, and heat-resistant valve bodies.

In 2025, the exhaust brake valve remains a critical foundational component within the auxiliary braking systems of diesel-powered commercial vehicles and heavy-duty

equipment. Market demand for these valves is highly correlated with the production and sales volumes of heavy-duty trucks, buses, construction machinery, mining vehicles, and specialized vehicles. As the payload capacities of logistics vehicles increase—and as safety requirements for driving in mountainous terrain and on long downhill gradients become more stringent—reliance solely on service brakes is no longer sufficient to meet the safety and durability demands of high-frequency, heavy-load operating conditions. Thanks to advantages such as relatively simple construction, moderate cost, ease of maintenance, and mature integration with engine systems, exhaust brake valves continue to enjoy a steady demand for installation in medium- and heavy-duty diesel vehicles. Concurrently, the industry is undergoing an upgrade transition from mechanical and pneumatic control systems toward electronic control, intelligent linkage, and the adoption of high-temperature-resistant materials. Particularly under the China VI emission standards—and subsequent, even stricter regulatory platforms—exhaust brake valves are required to operate in close coordination with turbochargers, EGR systems, after-treatment systems, and engine ECUs; this imposes higher demands regarding response speed, sealing reliability, corrosion resistance, and back-pressure control precision. In terms of the competitive landscape, international commercial vehicle braking system manufacturers hold distinct advantages in the realms of high-end OEM supply and system integration; conversely, domestic component manufacturers—by leveraging the established supply chains of the heavy-duty truck and engine industries—demonstrate strong competitiveness in terms of cost-effectiveness, response speed, and after-sales service channels. Future growth in this sector will not rely solely on the expansion of the new vehicle market; rather, it will be driven primarily by enhancements in vehicle safety configurations, the maintenance and replacement of aging vehicle components, the supply of components for export models, the rigorous operational demands of mining and construction machinery, and the upgrading and replacement of traditional products with electronically controlled exhaust brake valves. Overall, the exhaust brake valve is a mature commercial vehicle component that nonetheless offers ample scope for continuous technological iteration. Manufacturers capable of establishing competitive advantages in areas such as heat-resistant materials, seal longevity, control precision, platform adaptability, and after-sales service will be better positioned to integrate into OEM supply chains and secure a steady stream of orders.

This report studies the global Exhaust Brake Valve production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Exhaust Brake Valve 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 Exhaust Brake Valve that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Exhaust Brake Valve total production and demand, 2021-2032, (K Units)

Global Exhaust Brake Valve total production value, 2021-2032, (USD Million)

Global Exhaust Brake Valve production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Exhaust Brake Valve consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Exhaust Brake Valve domestic production, consumption, key domestic manufacturers and share

Global Exhaust Brake Valve production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Exhaust Brake Valve production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Exhaust Brake Valve production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Exhaust Brake Valve 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 Cummins (US), Jacobs Vehicle Systems (US), Knorr-Bremse (DE), PACBRAKE (US), AIR FREN (ES), ATP-DIESEL Automotive (GB), Ulupar (TR), Uygur Automotive (TR), Hamofa (BE), Swedish Lorry Parts (SE), 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 Exhaust Brake Valve market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/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 Exhaust Brake Valve Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Exhaust Brake Valve Market, Segmentation by Type:

Double Hose Type

Three Hose Type

Others

Global Exhaust Brake Valve Market, Segmentation by Maximum Work Pressure:

? 5 bar

5–10 bar

> 10 bar

Global Exhaust Brake Valve Market, Segmentation by Control Method:

Mechanical Control Type

Pneumatic Control Type

Other

Global Exhaust Brake Valve Market, Segmentation by Application:

Bus

Track

Others

Companies Profiled:

Cummins (US)

Jacobs Vehicle Systems (US)

Knorr-Bremse (DE)

PACBRAKE (US)

AIR FREN (ES)

ATP-DIESEL Automotive (GB)

Ulupar (TR)

Uygur Automotive (TR)

Hamofa (BE)

Swedish Lorry Parts (SE)

Sinotruk (CN)

BHKS Automobile Parts (CN)

Key Questions Answered:

1. How big is the global Exhaust Brake Valve market?
2. What is the demand of the global Exhaust Brake Valve market?
3. What is the year over year growth of the global Exhaust Brake Valve market?
4. What is the production and production value of the global Exhaust Brake Valve market?
5. Who are the key producers in the global Exhaust Brake Valve market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World Exhaust Brake Valve Demand (2021-2032)
- 2.2 World Exhaust Brake Valve Consumption by Region
 - 2.2.1 World Exhaust Brake Valve Consumption by Region (2021-2026)
 - 2.2.2 World Exhaust Brake Valve Consumption Forecast by Region (2027-2032)
- 2.3 United States Exhaust Brake Valve Consumption (2021-2032)
- 2.4 China Exhaust Brake Valve Consumption (2021-2032)
- 2.5 Europe Exhaust Brake Valve Consumption (2021-2032)
- 2.6 Japan Exhaust Brake Valve Consumption (2021-2032)
- 2.7 South Korea Exhaust Brake Valve Consumption (2021-2032)
- 2.8 ASEAN Exhaust Brake Valve Consumption (2021-2032)
- 2.9 India Exhaust Brake Valve Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Exhaust Brake Valve Production Value by Manufacturer (2021-2026)

- 3.2 World Exhaust Brake Valve Production by Manufacturer (2021-2026)
- 3.3 World Exhaust Brake Valve Average Price by Manufacturer (2021-2026)
- 3.4 Exhaust Brake Valve Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Exhaust Brake Valve Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Exhaust Brake Valve in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Exhaust Brake Valve in 2025
- 3.6 Exhaust Brake Valve Market: Overall Company Footprint Analysis
 - 3.6.1 Exhaust Brake Valve Market: Region Footprint
 - 3.6.2 Exhaust Brake Valve Market: Company Product Type Footprint
 - 3.6.3 Exhaust Brake Valve 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: Exhaust Brake Valve Production Value Comparison
 - 4.1.1 United States VS China: Exhaust Brake Valve Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Exhaust Brake Valve Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Exhaust Brake Valve Production Comparison
 - 4.2.1 United States VS China: Exhaust Brake Valve Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Exhaust Brake Valve Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Exhaust Brake Valve Consumption Comparison
 - 4.3.1 United States VS China: Exhaust Brake Valve Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Exhaust Brake Valve Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Exhaust Brake Valve Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Exhaust Brake Valve Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Exhaust Brake Valve Production Value (2021-2026)

4.4.3 United States Based Manufacturers Exhaust Brake Valve Production (2021-2026)

4.5 China Based Exhaust Brake Valve Manufacturers and Market Share

4.5.1 China Based Exhaust Brake Valve Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Exhaust Brake Valve Production Value (2021-2026)

4.5.3 China Based Manufacturers Exhaust Brake Valve Production (2021-2026)

4.6 Rest of World Based Exhaust Brake Valve Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Exhaust Brake Valve Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Exhaust Brake Valve Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Exhaust Brake Valve Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Exhaust Brake Valve Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Double Hose Type

5.2.2 Three Hose Type

5.2.3 Others

5.3 Market Segment by Type

5.3.1 World Exhaust Brake Valve Production by Type (2021-2032)

5.3.2 World Exhaust Brake Valve Production Value by Type (2021-2032)

5.3.3 World Exhaust Brake Valve Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY MAXIMUM WORK PRESSURE

6.1 World Exhaust Brake Valve Market Size Overview by Maximum Work Pressure: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Maximum Work Pressure

6.2.1 ? 5 bar

6.2.2 5–10 bar

6.2.3 > 10 bar

6.3 Market Segment by Maximum Work Pressure

- 6.3.1 World Exhaust Brake Valve Production by Maximum Work Pressure (2021-2032)
- 6.3.2 World Exhaust Brake Valve Production Value by Maximum Work Pressure (2021-2032)
- 6.3.3 World Exhaust Brake Valve Average Price by Maximum Work Pressure (2021-2032)

7 MARKET ANALYSIS BY CONTROL METHOD

- 7.1 World Exhaust Brake Valve Market Size Overview by Control Method: 2021 VS 2025 VS 2032
- 7.2 Segment Introduction by Control Method
 - 7.2.1 Mechanical Control Type
 - 7.2.2 Pneumatic Control Type
 - 7.2.3 Other
- 7.3 Market Segment by Control Method
 - 7.3.1 World Exhaust Brake Valve Production by Control Method (2021-2032)
 - 7.3.2 World Exhaust Brake Valve Production Value by Control Method (2021-2032)
 - 7.3.3 World Exhaust Brake Valve Average Price by Control Method (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

- 8.1 World Exhaust Brake Valve Market Size Overview by Application: 2021 VS 2025 VS 2032
- 8.2 Segment Introduction by Application
 - 8.2.1 Bus
 - 8.2.2 Track
 - 8.2.3 Others
- 8.3 Market Segment by Application
 - 8.3.1 World Exhaust Brake Valve Production by Application (2021-2032)
 - 8.3.2 World Exhaust Brake Valve Production Value by Application (2021-2032)
 - 8.3.3 World Exhaust Brake Valve Average Price by Application (2021-2032)

9 COMPANY PROFILES

- 9.1 Cummins (US)
 - 9.1.1 Cummins (US) Details
 - 9.1.2 Cummins (US) Major Business
 - 9.1.3 Cummins (US) Exhaust Brake Valve Product and Services
 - 9.1.4 Cummins (US) Exhaust Brake Valve Production, Price, Value, Gross Margin and

Market Share (2021-2026)

9.1.5 Cummins (US) Recent Developments/Updates

9.1.6 Cummins (US) Competitive Strengths & Weaknesses

9.2 Jacobs Vehicle Systems (US)

9.2.1 Jacobs Vehicle Systems (US) Details

9.2.2 Jacobs Vehicle Systems (US) Major Business

9.2.3 Jacobs Vehicle Systems (US) Exhaust Brake Valve Product and Services

9.2.4 Jacobs Vehicle Systems (US) Exhaust Brake Valve Production, Price, Value,

Gross Margin and Market Share (2021-2026)

9.2.5 Jacobs Vehicle Systems (US) Recent Developments/Updates

9.2.6 Jacobs Vehicle Systems (US) Competitive Strengths & Weaknesses

9.3 Knorr-Bremse (DE)

9.3.1 Knorr-Bremse (DE) Details

9.3.2 Knorr-Bremse (DE) Major Business

9.3.3 Knorr-Bremse (DE) Exhaust Brake Valve Product and Services

9.3.4 Knorr-Bremse (DE) Exhaust Brake Valve Production, Price, Value, Gross Margin

and Market Share (2021-2026)

9.3.5 Knorr-Bremse (DE) Recent Developments/Updates

9.3.6 Knorr-Bremse (DE) Competitive Strengths & Weaknesses

9.4 PACBRAKE (US)

9.4.1 PACBRAKE (US) Details

9.4.2 PACBRAKE (US) Major Business

9.4.3 PACBRAKE (US) Exhaust Brake Valve Product and Services

9.4.4 PACBRAKE (US) Exhaust Brake Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 PACBRAKE (US) Recent Developments/Updates

9.4.6 PACBRAKE (US) Competitive Strengths & Weaknesses

9.5 AIR FREN (ES)

9.5.1 AIR FREN (ES) Details

9.5.2 AIR FREN (ES) Major Business

9.5.3 AIR FREN (ES) Exhaust Brake Valve Product and Services

9.5.4 AIR FREN (ES) Exhaust Brake Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 AIR FREN (ES) Recent Developments/Updates

9.5.6 AIR FREN (ES) Competitive Strengths & Weaknesses

9.6 ATP-DIESEL Automotive (GB)

9.6.1 ATP-DIESEL Automotive (GB) Details

9.6.2 ATP-DIESEL Automotive (GB) Major Business

9.6.3 ATP-DIESEL Automotive (GB) Exhaust Brake Valve Product and Services

9.6.4 ATP-DIESEL Automotive (GB) Exhaust Brake Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 ATP-DIESEL Automotive (GB) Recent Developments/Updates

9.6.6 ATP-DIESEL Automotive (GB) Competitive Strengths & Weaknesses

9.7 Ulupar (TR)

9.7.1 Ulupar (TR) Details

9.7.2 Ulupar (TR) Major Business

9.7.3 Ulupar (TR) Exhaust Brake Valve Product and Services

9.7.4 Ulupar (TR) Exhaust Brake Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Ulupar (TR) Recent Developments/Updates

9.7.6 Ulupar (TR) Competitive Strengths & Weaknesses

9.8 Uygur Automotive (TR)

9.8.1 Uygur Automotive (TR) Details

9.8.2 Uygur Automotive (TR) Major Business

9.8.3 Uygur Automotive (TR) Exhaust Brake Valve Product and Services

9.8.4 Uygur Automotive (TR) Exhaust Brake Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Uygur Automotive (TR) Recent Developments/Updates

9.8.6 Uygur Automotive (TR) Competitive Strengths & Weaknesses

9.9 Hamofa (BE)

9.9.1 Hamofa (BE) Details

9.9.2 Hamofa (BE) Major Business

9.9.3 Hamofa (BE) Exhaust Brake Valve Product and Services

9.9.4 Hamofa (BE) Exhaust Brake Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Hamofa (BE) Recent Developments/Updates

9.9.6 Hamofa (BE) Competitive Strengths & Weaknesses

9.10 Swedish Lorry Parts (SE)

9.10.1 Swedish Lorry Parts (SE) Details

9.10.2 Swedish Lorry Parts (SE) Major Business

9.10.3 Swedish Lorry Parts (SE) Exhaust Brake Valve Product and Services

9.10.4 Swedish Lorry Parts (SE) Exhaust Brake Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Swedish Lorry Parts (SE) Recent Developments/Updates

9.10.6 Swedish Lorry Parts (SE) Competitive Strengths & Weaknesses

9.11 Sinotruk (CN)

9.11.1 Sinotruk (CN) Details

9.11.2 Sinotruk (CN) Major Business

- 9.11.3 Sinotruk (CN) Exhaust Brake Valve Product and Services
- 9.11.4 Sinotruk (CN) Exhaust Brake Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.11.5 Sinotruk (CN) Recent Developments/Updates
- 9.11.6 Sinotruk (CN) Competitive Strengths & Weaknesses
- 9.12 BHKS Automobile Parts (CN)
 - 9.12.1 BHKS Automobile Parts (CN) Details
 - 9.12.2 BHKS Automobile Parts (CN) Major Business
 - 9.12.3 BHKS Automobile Parts (CN) Exhaust Brake Valve Product and Services
 - 9.12.4 BHKS Automobile Parts (CN) Exhaust Brake Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 BHKS Automobile Parts (CN) Recent Developments/Updates
 - 9.12.6 BHKS Automobile Parts (CN) Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Exhaust Brake Valve Industry Chain
- 10.2 Exhaust Brake Valve Upstream Analysis
 - 10.2.1 Exhaust Brake Valve Core Raw Materials
 - 10.2.2 Main Manufacturers of Exhaust Brake Valve Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Exhaust Brake Valve Production Mode
- 10.6 Exhaust Brake Valve Procurement Model
- 10.7 Exhaust Brake Valve Industry Sales Model and Sales Channels
 - 10.7.1 Exhaust Brake Valve Sales Model
 - 10.7.2 Exhaust Brake Valve 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 Exhaust Brake Valve Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Exhaust Brake Valve Production Value by Region (2021-2026) & (USD Million)

Table 3. World Exhaust Brake Valve Production Value by Region (2027-2032) & (USD Million)

Table 4. World Exhaust Brake Valve Production Value Market Share by Region (2021-2026)

Table 5. World Exhaust Brake Valve Production Value Market Share by Region (2027-2032)

Table 6. World Exhaust Brake Valve Production by Region (2021-2026) & (K Units)

Table 7. World Exhaust Brake Valve Production by Region (2027-2032) & (K Units)

Table 8. World Exhaust Brake Valve Production Market Share by Region (2021-2026)

Table 9. World Exhaust Brake Valve Production Market Share by Region (2027-2032)

Table 10. World Exhaust Brake Valve Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Exhaust Brake Valve Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Exhaust Brake Valve Major Market Trends

Table 13. World Exhaust Brake Valve Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Exhaust Brake Valve Consumption by Region (2021-2026) & (K Units)

Table 15. World Exhaust Brake Valve Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Exhaust Brake Valve Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Exhaust Brake Valve Producers in 2025

Table 18. World Exhaust Brake Valve Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Exhaust Brake Valve Producers in 2025

Table 20. World Exhaust Brake Valve Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Exhaust Brake Valve Company Evaluation Quadrant

Table 22. World Exhaust Brake Valve Industry Rank of Major Manufacturers, Based on

Production Value in 2025

Table 23. Head Office and Exhaust Brake Valve Production Site of Key Manufacturer

Table 24. Exhaust Brake Valve Market: Company Product Type Footprint

Table 25. Exhaust Brake Valve Market: Company Product Application Footprint

Table 26. Exhaust Brake Valve Competitive Factors

Table 27. Exhaust Brake Valve New Entrant and Capacity Expansion Plans

Table 28. Exhaust Brake Valve Mergers & Acquisitions Activity

Table 29. United States VS China Exhaust Brake Valve Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Exhaust Brake Valve Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Exhaust Brake Valve Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Exhaust Brake Valve Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Exhaust Brake Valve Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Exhaust Brake Valve Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Exhaust Brake Valve Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Exhaust Brake Valve Production Market Share (2021-2026)

Table 37. China Based Exhaust Brake Valve Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Exhaust Brake Valve Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Exhaust Brake Valve Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Exhaust Brake Valve Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Exhaust Brake Valve Production Market Share (2021-2026)

Table 42. Rest of World Based Exhaust Brake Valve Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Exhaust Brake Valve Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Exhaust Brake Valve Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Exhaust Brake Valve Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Exhaust Brake Valve Production Market Share (2021-2026)

Table 47. World Exhaust Brake Valve Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Exhaust Brake Valve Production by Type (2021-2026) & (K Units)

Table 49. World Exhaust Brake Valve Production by Type (2027-2032) & (K Units)

Table 50. World Exhaust Brake Valve Production Value by Type (2021-2026) & (USD Million)

Table 51. World Exhaust Brake Valve Production Value by Type (2027-2032) & (USD Million)

Table 52. World Exhaust Brake Valve Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Exhaust Brake Valve Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Exhaust Brake Valve Production Value by Maximum Work Pressure, (USD Million), 2021 & 2025 & 2032

Table 55. World Exhaust Brake Valve Production by Maximum Work Pressure (2021-2026) & (K Units)

Table 56. World Exhaust Brake Valve Production by Maximum Work Pressure (2027-2032) & (K Units)

Table 57. World Exhaust Brake Valve Production Value by Maximum Work Pressure (2021-2026) & (USD Million)

Table 58. World Exhaust Brake Valve Production Value by Maximum Work Pressure (2027-2032) & (USD Million)

Table 59. World Exhaust Brake Valve Average Price by Maximum Work Pressure (2021-2026) & (US\$/Unit)

Table 60. World Exhaust Brake Valve Average Price by Maximum Work Pressure (2027-2032) & (US\$/Unit)

Table 61. World Exhaust Brake Valve Production Value by Control Method, (USD Million), 2021 & 2025 & 2032

Table 62. World Exhaust Brake Valve Production by Control Method (2021-2026) & (K Units)

Table 63. World Exhaust Brake Valve Production by Control Method (2027-2032) & (K Units)

Table 64. World Exhaust Brake Valve Production Value by Control Method (2021-2026) & (USD Million)

Table 65. World Exhaust Brake Valve Production Value by Control Method (2027-2032) & (USD Million)

Table 66. World Exhaust Brake Valve Average Price by Control Method (2021-2026) &

(US\$/Unit)

Table 67. World Exhaust Brake Valve Average Price by Control Method (2027-2032) & (US\$/Unit)

Table 68. World Exhaust Brake Valve Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Exhaust Brake Valve Production by Application (2021-2026) & (K Units)

Table 70. World Exhaust Brake Valve Production by Application (2027-2032) & (K Units)

Table 71. World Exhaust Brake Valve Production Value by Application (2021-2026) & (USD Million)

Table 72. World Exhaust Brake Valve Production Value by Application (2027-2032) & (USD Million)

Table 73. World Exhaust Brake Valve Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Exhaust Brake Valve Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Cummins (US) Basic Information, Manufacturing Base and Competitors

Table 76. Cummins (US) Major Business

Table 77. Cummins (US) Exhaust Brake Valve Product and Services

Table 78. Cummins (US) Exhaust Brake Valve Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Cummins (US) Recent Developments/Updates

Table 80. Cummins (US) Competitive Strengths & Weaknesses

Table 81. Jacobs Vehicle Systems (US) Basic Information, Manufacturing Base and Competitors

Table 82. Jacobs Vehicle Systems (US) Major Business

Table 83. Jacobs Vehicle Systems (US) Exhaust Brake Valve Product and Services

Table 84. Jacobs Vehicle Systems (US) Exhaust Brake Valve Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Jacobs Vehicle Systems (US) Recent Developments/Updates

Table 86. Jacobs Vehicle Systems (US) Competitive Strengths & Weaknesses

Table 87. Knorr-Bremse (DE) Basic Information, Manufacturing Base and Competitors

Table 88. Knorr-Bremse (DE) Major Business

Table 89. Knorr-Bremse (DE) Exhaust Brake Valve Product and Services

Table 90. Knorr-Bremse (DE) Exhaust Brake Valve Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 91. Knorr-Bremse (DE) Recent Developments/Updates
- Table 92. Knorr-Bremse (DE) Competitive Strengths & Weaknesses
- Table 93. PACBRAKE (US) Basic Information, Manufacturing Base and Competitors
- Table 94. PACBRAKE (US) Major Business
- Table 95. PACBRAKE (US) Exhaust Brake Valve Product and Services
- Table 96. PACBRAKE (US) Exhaust Brake Valve Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. PACBRAKE (US) Recent Developments/Updates
- Table 98. PACBRAKE (US) Competitive Strengths & Weaknesses
- Table 99. AIR FREN (ES) Basic Information, Manufacturing Base and Competitors
- Table 100. AIR FREN (ES) Major Business
- Table 101. AIR FREN (ES) Exhaust Brake Valve Product and Services
- Table 102. AIR FREN (ES) Exhaust Brake Valve Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. AIR FREN (ES) Recent Developments/Updates
- Table 104. AIR FREN (ES) Competitive Strengths & Weaknesses
- Table 105. ATP-DIESEL Automotive (GB) Basic Information, Manufacturing Base and Competitors
- Table 106. ATP-DIESEL Automotive (GB) Major Business
- Table 107. ATP-DIESEL Automotive (GB) Exhaust Brake Valve Product and Services
- Table 108. ATP-DIESEL Automotive (GB) Exhaust Brake Valve Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. ATP-DIESEL Automotive (GB) Recent Developments/Updates
- Table 110. ATP-DIESEL Automotive (GB) Competitive Strengths & Weaknesses
- Table 111. Ulupar (TR) Basic Information, Manufacturing Base and Competitors
- Table 112. Ulupar (TR) Major Business
- Table 113. Ulupar (TR) Exhaust Brake Valve Product and Services
- Table 114. Ulupar (TR) Exhaust Brake Valve Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. Ulupar (TR) Recent Developments/Updates
- Table 116. Ulupar (TR) Competitive Strengths & Weaknesses
- Table 117. Uygur Automotive (TR) Basic Information, Manufacturing Base and Competitors
- Table 118. Uygur Automotive (TR) Major Business
- Table 119. Uygur Automotive (TR) Exhaust Brake Valve Product and Services
- Table 120. Uygur Automotive (TR) Exhaust Brake Valve Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 121. Uygur Automotive (TR) Recent Developments/Updates

Table 122. Uygur Automotive (TR) Competitive Strengths & Weaknesses

Table 123. Hamofa (BE) Basic Information, Manufacturing Base and Competitors

Table 124. Hamofa (BE) Major Business

Table 125. Hamofa (BE) Exhaust Brake Valve Product and Services

Table 126. Hamofa (BE) Exhaust Brake Valve Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Hamofa (BE) Recent Developments/Updates

Table 128. Hamofa (BE) Competitive Strengths & Weaknesses

Table 129. Swedish Lorry Parts (SE) Basic Information, Manufacturing Base and Competitors

Table 130. Swedish Lorry Parts (SE) Major Business

Table 131. Swedish Lorry Parts (SE) Exhaust Brake Valve Product and Services

Table 132. Swedish Lorry Parts (SE) Exhaust Brake Valve Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Swedish Lorry Parts (SE) Recent Developments/Updates

Table 134. Swedish Lorry Parts (SE) Competitive Strengths & Weaknesses

Table 135. Sinotruk (CN) Basic Information, Manufacturing Base and Competitors

Table 136. Sinotruk (CN) Major Business

Table 137. Sinotruk (CN) Exhaust Brake Valve Product and Services

Table 138. Sinotruk (CN) Exhaust Brake Valve Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Sinotruk (CN) Recent Developments/Updates

Table 140. Sinotruk (CN) Competitive Strengths & Weaknesses

Table 141. BHKS Automobile Parts (CN) Basic Information, Manufacturing Base and Competitors

Table 142. BHKS Automobile Parts (CN) Major Business

Table 143. BHKS Automobile Parts (CN) Exhaust Brake Valve Product and Services

Table 144. BHKS Automobile Parts (CN) Exhaust Brake Valve Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. BHKS Automobile Parts (CN) Recent Developments/Updates

Table 146. BHKS Automobile Parts (CN) Competitive Strengths & Weaknesses

Table 147. Global Key Players of Exhaust Brake Valve Upstream (Raw Materials)

Table 148. Global Exhaust Brake Valve Typical Customers

Table 149. Exhaust Brake Valve Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Exhaust Brake Valve Picture

Figure 2. World Exhaust Brake Valve Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Exhaust Brake Valve Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Exhaust Brake Valve Production (2021-2032) & (K Units)

Figure 5. World Exhaust Brake Valve Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Exhaust Brake Valve Production Value Market Share by Region (2021-2032)

Figure 7. World Exhaust Brake Valve Production Market Share by Region (2021-2032)

Figure 8. North America Exhaust Brake Valve Production (2021-2032) & (K Units)

Figure 9. Europe Exhaust Brake Valve Production (2021-2032) & (K Units)

Figure 10. China Exhaust Brake Valve Production (2021-2032) & (K Units)

Figure 11. Japan Exhaust Brake Valve Production (2021-2032) & (K Units)

Figure 12. Exhaust Brake Valve Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Exhaust Brake Valve Consumption (2021-2032) & (K Units)

Figure 15. World Exhaust Brake Valve Consumption Market Share by Region (2021-2032)

Figure 16. United States Exhaust Brake Valve Consumption (2021-2032) & (K Units)

Figure 17. China Exhaust Brake Valve Consumption (2021-2032) & (K Units)

Figure 18. Europe Exhaust Brake Valve Consumption (2021-2032) & (K Units)

Figure 19. Japan Exhaust Brake Valve Consumption (2021-2032) & (K Units)

Figure 20. South Korea Exhaust Brake Valve Consumption (2021-2032) & (K Units)

Figure 21. ASEAN Exhaust Brake Valve Consumption (2021-2032) & (K Units)

Figure 22. India Exhaust Brake Valve Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of Exhaust Brake Valve by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Exhaust Brake Valve Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Exhaust Brake Valve Markets in 2025

Figure 26. United States VS China: Exhaust Brake Valve Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Exhaust Brake Valve Production Market Share

Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Exhaust Brake Valve Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Exhaust Brake Valve Production Market Share 2025

Figure 30. China Based Manufacturers Exhaust Brake Valve Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Exhaust Brake Valve Production Market Share 2025

Figure 32. World Exhaust Brake Valve Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Exhaust Brake Valve Production Value Market Share by Type in 2025

Figure 34. Double Hose Type

Figure 35. Three Hose Type

Figure 36. Others

Figure 37. World Exhaust Brake Valve Production Market Share by Type (2021-2032)

Figure 38. World Exhaust Brake Valve Production Value Market Share by Type (2021-2032)

Figure 39. World Exhaust Brake Valve Average Price by Type (2021-2032) & (US\$/Unit)

Figure 40. World Exhaust Brake Valve Production Value by Maximum Work Pressure, (USD Million), 2021 & 2025 & 2032

Figure 41. World Exhaust Brake Valve Production Value Market Share by Maximum Work Pressure in 2025

Figure 42. ? 5 bar

Figure 43. 5–10 bar

Figure 44. > 10 bar

Figure 45. World Exhaust Brake Valve Production Market Share by Maximum Work Pressure (2021-2032)

Figure 46. World Exhaust Brake Valve Production Value Market Share by Maximum Work Pressure (2021-2032)

Figure 47. World Exhaust Brake Valve Average Price by Maximum Work Pressure (2021-2032) & (US\$/Unit)

Figure 48. World Exhaust Brake Valve Production Value by Control Method, (USD Million), 2021 & 2025 & 2032

Figure 49. World Exhaust Brake Valve Production Value Market Share by Control Method in 2025

Figure 50. Mechanical Control Type

Figure 51. Pneumatic Control Type

Figure 52. Other

Figure 53. World Exhaust Brake Valve Production Market Share by Control Method (2021-2032)

Figure 54. World Exhaust Brake Valve Production Value Market Share by Control Method (2021-2032)

Figure 55. World Exhaust Brake Valve Average Price by Control Method (2021-2032) & (US\$/Unit)

Figure 56. World Exhaust Brake Valve Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World Exhaust Brake Valve Production Value Market Share by Application in 2025

Figure 58. Bus

Figure 59. Track

Figure 60. Others

Figure 61. World Exhaust Brake Valve Production Market Share by Application (2021-2032)

Figure 62. World Exhaust Brake Valve Production Value Market Share by Application (2021-2032)

Figure 63. World Exhaust Brake Valve Average Price by Application (2021-2032) & (US\$/Unit)

Figure 64. Exhaust Brake Valve Industry Chain

Figure 65. Exhaust Brake Valve Procurement Model

Figure 66. Exhaust Brake Valve Sales Model

Figure 67. Exhaust Brake Valve Sales Channels, Direct Sales, and Distribution

Figure 68. Methodology

Figure 69. Research Process and Data Source

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