

Global Double Acting Hydraulic Piston Seal Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Double Acting Hydraulic Piston Seal market size was valued at US\$ 736 million in 2025 and is forecast to a readjusted size of US\$ 914 million by 2032 with a CAGR of 3.3% during review period.

In 2025, global Double Acting Hydraulic Piston Seal production reached approximately 84,000 k units, with an average global market price of around US\$ 8.5 per unit, and a gross profit margin of approximately 10%-20%. A double-acting hydraulic piston seal is a sealing element installed on a piston in a hydraulic cylinder to prevent fluid leakage across the piston when the cylinder is pressurized from either side, enabling controlled motion and force in both extension and retraction. Because a double-acting cylinder alternates pressure between the rod side and cap side chambers, the piston seal must provide reliable sealing under bi-directional pressure, tolerate pressure reversals, and maintain stable friction characteristics across varying speeds and loads. Common designs include double-lip seals, compact piston seal sets, PTFE-based step seals with elastomer O-ring energizers, and multi-piece assemblies that combine a primary sealing ring with back-up rings to resist extrusion at high pressure. Materials are chosen for compatibility with hydraulic fluids, pressure and temperature capability, and wear performance—often PTFE compounds, polyurethane, NBR/FKM elastomers, or engineered thermoplastics—while the seal profile is engineered to balance leakage control, breakaway friction, and long service life.

This report is a detailed and comprehensive analysis for global Double Acting Hydraulic Piston Seal market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as

well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Double Acting Hydraulic Piston Seal market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Double Acting Hydraulic Piston Seal market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Double Acting Hydraulic Piston Seal market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Double Acting Hydraulic Piston Seal market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Double Acting Hydraulic Piston Seal
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Double Acting Hydraulic Piston Seal market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include SKF, Parker, Chesterton, Trelleborg, GARLOCK, Freudenberg, UTEC, PPE Seals, James Walker, Hallite, etc.

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

Market Segmentation

Double Acting Hydraulic Piston Seal market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

NBR (Nitrile Rubber)

FKM (Fluorine Rubber)

EPDM (Ethylene-Propylene-Diene Rubber)

PTFE (Polytetrafluoroethylene)

Market segment by Max Pressure

Max Pressure: 300 Bar

Max Pressure: 500 Bar

Max Pressure: 700 Bar

Others

Market segment by Application

Automotive

Machinery

Aerospace

Marine

Others

Major players covered

SKF

Parker

Chesterton

Trelleborg

GARLOCK

Freudenberg

UTEC

PPE Seals

James Walker

Hallite

NOK

Max Spare

Kastas Sealing Technologies

TTV GmbH

FiPur

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Double Acting Hydraulic Piston Seal product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Double Acting Hydraulic Piston Seal, with price, sales quantity, revenue, and global market share of Double Acting Hydraulic Piston Seal from 2021 to 2026.

Chapter 3, the Double Acting Hydraulic Piston Seal competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Double Acting Hydraulic Piston Seal breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Double Acting Hydraulic Piston Seal market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Double Acting Hydraulic Piston Seal.

Chapter 14 and 15, to describe Double Acting Hydraulic Piston Seal sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Double Acting Hydraulic Piston Seal Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 NBR (Nitrile Rubber)

1.3.3 FKM (Fluorine Rubber)

1.3.4 EPDM (Ethylene-Propylene-Diene Rubber)

1.3.5 PTFE (Polytetrafluoroethylene)

1.4 Market Analysis by Max Pressure

1.4.1 Overview: Global Double Acting Hydraulic Piston Seal Consumption Value by Max Pressure: 2021 Versus 2025 Versus 2032

1.4.2 Max Pressure: 300 Bar

1.4.3 Max Pressure: 500 Bar

1.4.4 Max Pressure: 700 Bar

1.4.5 Others

1.5 Market Analysis by Application

1.5.1 Overview: Global Double Acting Hydraulic Piston Seal Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.5.2 Automotive

1.5.3 Machinery

1.5.4 Aerospace

1.5.5 Marine

1.5.6 Others

1.6 Global Double Acting Hydraulic Piston Seal Market Size & Forecast

1.6.1 Global Double Acting Hydraulic Piston Seal Consumption Value (2021 & 2025 & 2032)

1.6.2 Global Double Acting Hydraulic Piston Seal Sales Quantity (2021-2032)

1.6.3 Global Double Acting Hydraulic Piston Seal Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 SKF

2.1.1 SKF Details

2.1.2 SKF Major Business

- 2.1.3 SKF Double Acting Hydraulic Piston Seal Product and Services
- 2.1.4 SKF Double Acting Hydraulic Piston Seal Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.1.5 SKF Recent Developments/Updates
- 2.2 Parker
 - 2.2.1 Parker Details
 - 2.2.2 Parker Major Business
 - 2.2.3 Parker Double Acting Hydraulic Piston Seal Product and Services
 - 2.2.4 Parker Double Acting Hydraulic Piston Seal Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.2.5 Parker Recent Developments/Updates
- 2.3 Chesterton
 - 2.3.1 Chesterton Details
 - 2.3.2 Chesterton Major Business
 - 2.3.3 Chesterton Double Acting Hydraulic Piston Seal Product and Services
 - 2.3.4 Chesterton Double Acting Hydraulic Piston Seal Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.3.5 Chesterton Recent Developments/Updates
- 2.4 Trelleborg
 - 2.4.1 Trelleborg Details
 - 2.4.2 Trelleborg Major Business
 - 2.4.3 Trelleborg Double Acting Hydraulic Piston Seal Product and Services
 - 2.4.4 Trelleborg Double Acting Hydraulic Piston Seal Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.4.5 Trelleborg Recent Developments/Updates
- 2.5 GARLOCK
 - 2.5.1 GARLOCK Details
 - 2.5.2 GARLOCK Major Business
 - 2.5.3 GARLOCK Double Acting Hydraulic Piston Seal Product and Services
 - 2.5.4 GARLOCK Double Acting Hydraulic Piston Seal Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.5.5 GARLOCK Recent Developments/Updates
- 2.6 Freudenberg
 - 2.6.1 Freudenberg Details
 - 2.6.2 Freudenberg Major Business
 - 2.6.3 Freudenberg Double Acting Hydraulic Piston Seal Product and Services
 - 2.6.4 Freudenberg Double Acting Hydraulic Piston Seal Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.6.5 Freudenberg Recent Developments/Updates

2.7 UTEC

2.7.1 UTEC Details

2.7.2 UTEC Major Business

2.7.3 UTEC Double Acting Hydraulic Piston Seal Product and Services

2.7.4 UTEC Double Acting Hydraulic Piston Seal Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 UTEC Recent Developments/Updates

2.8 PPE Seals

2.8.1 PPE Seals Details

2.8.2 PPE Seals Major Business

2.8.3 PPE Seals Double Acting Hydraulic Piston Seal Product and Services

2.8.4 PPE Seals Double Acting Hydraulic Piston Seal Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 PPE Seals Recent Developments/Updates

2.9 James Walker

2.9.1 James Walker Details

2.9.2 James Walker Major Business

2.9.3 James Walker Double Acting Hydraulic Piston Seal Product and Services

2.9.4 James Walker Double Acting Hydraulic Piston Seal Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 James Walker Recent Developments/Updates

2.10 Hallite

2.10.1 Hallite Details

2.10.2 Hallite Major Business

2.10.3 Hallite Double Acting Hydraulic Piston Seal Product and Services

2.10.4 Hallite Double Acting Hydraulic Piston Seal Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 Hallite Recent Developments/Updates

2.11 NOK

2.11.1 NOK Details

2.11.2 NOK Major Business

2.11.3 NOK Double Acting Hydraulic Piston Seal Product and Services

2.11.4 NOK Double Acting Hydraulic Piston Seal Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 NOK Recent Developments/Updates

2.12 Max Spare

2.12.1 Max Spare Details

2.12.2 Max Spare Major Business

2.12.3 Max Spare Double Acting Hydraulic Piston Seal Product and Services

2.12.4 Max Spare Double Acting Hydraulic Piston Seal Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.12.5 Max Spare Recent Developments/Updates

2.13 Kastasealing Technologies

2.13.1 Kastasealing Technologies Details

2.13.2 Kastasealing Technologies Major Business

2.13.3 Kastasealing Technologies Double Acting Hydraulic Piston Seal Product and Services

2.13.4 Kastasealing Technologies Double Acting Hydraulic Piston Seal Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.13.5 Kastasealing Technologies Recent Developments/Updates

2.14 TTV GmbH

2.14.1 TTV GmbH Details

2.14.2 TTV GmbH Major Business

2.14.3 TTV GmbH Double Acting Hydraulic Piston Seal Product and Services

2.14.4 TTV GmbH Double Acting Hydraulic Piston Seal Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.14.5 TTV GmbH Recent Developments/Updates

2.15 FiPur

2.15.1 FiPur Details

2.15.2 FiPur Major Business

2.15.3 FiPur Double Acting Hydraulic Piston Seal Product and Services

2.15.4 FiPur Double Acting Hydraulic Piston Seal Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.15.5 FiPur Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: DOUBLE ACTING HYDRAULIC PISTON SEAL BY MANUFACTURER

3.1 Global Double Acting Hydraulic Piston Seal Sales Quantity by Manufacturer (2021-2026)

3.2 Global Double Acting Hydraulic Piston Seal Revenue by Manufacturer (2021-2026)

3.3 Global Double Acting Hydraulic Piston Seal Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of Double Acting Hydraulic Piston Seal by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 Double Acting Hydraulic Piston Seal Manufacturer Market Share in 2025

3.4.3 Top 6 Double Acting Hydraulic Piston Seal Manufacturer Market Share in 2025

3.5 Double Acting Hydraulic Piston Seal Market: Overall Company Footprint Analysis

3.5.1 Double Acting Hydraulic Piston Seal Market: Region Footprint

3.5.2 Double Acting Hydraulic Piston Seal Market: Company Product Type Footprint

3.5.3 Double Acting Hydraulic Piston Seal Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Double Acting Hydraulic Piston Seal Market Size by Region

4.1.1 Global Double Acting Hydraulic Piston Seal Sales Quantity by Region (2021-2032)

4.1.2 Global Double Acting Hydraulic Piston Seal Consumption Value by Region (2021-2032)

4.1.3 Global Double Acting Hydraulic Piston Seal Average Price by Region (2021-2032)

4.2 North America Double Acting Hydraulic Piston Seal Consumption Value (2021-2032)

4.3 Europe Double Acting Hydraulic Piston Seal Consumption Value (2021-2032)

4.4 Asia-Pacific Double Acting Hydraulic Piston Seal Consumption Value (2021-2032)

4.5 South America Double Acting Hydraulic Piston Seal Consumption Value (2021-2032)

4.6 Middle East & Africa Double Acting Hydraulic Piston Seal Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Double Acting Hydraulic Piston Seal Sales Quantity by Type (2021-2032)

5.2 Global Double Acting Hydraulic Piston Seal Consumption Value by Type (2021-2032)

5.3 Global Double Acting Hydraulic Piston Seal Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Double Acting Hydraulic Piston Seal Sales Quantity by Application (2021-2032)

6.2 Global Double Acting Hydraulic Piston Seal Consumption Value by Application (2021-2032)

6.3 Global Double Acting Hydraulic Piston Seal Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Double Acting Hydraulic Piston Seal Sales Quantity by Type (2021-2032)

7.2 North America Double Acting Hydraulic Piston Seal Sales Quantity by Application (2021-2032)

7.3 North America Double Acting Hydraulic Piston Seal Market Size by Country

7.3.1 North America Double Acting Hydraulic Piston Seal Sales Quantity by Country (2021-2032)

7.3.2 North America Double Acting Hydraulic Piston Seal Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Double Acting Hydraulic Piston Seal Sales Quantity by Type (2021-2032)

8.2 Europe Double Acting Hydraulic Piston Seal Sales Quantity by Application (2021-2032)

8.3 Europe Double Acting Hydraulic Piston Seal Market Size by Country

8.3.1 Europe Double Acting Hydraulic Piston Seal Sales Quantity by Country (2021-2032)

8.3.2 Europe Double Acting Hydraulic Piston Seal Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Double Acting Hydraulic Piston Seal Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Double Acting Hydraulic Piston Seal Sales Quantity by Application

(2021-2032)

9.3 Asia-Pacific Double Acting Hydraulic Piston Seal Market Size by Region

9.3.1 Asia-Pacific Double Acting Hydraulic Piston Seal Sales Quantity by Region

(2021-2032)

9.3.2 Asia-Pacific Double Acting Hydraulic Piston Seal Consumption Value by Region

(2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Double Acting Hydraulic Piston Seal Sales Quantity by Type

(2021-2032)

10.2 South America Double Acting Hydraulic Piston Seal Sales Quantity by Application

(2021-2032)

10.3 South America Double Acting Hydraulic Piston Seal Market Size by Country

10.3.1 South America Double Acting Hydraulic Piston Seal Sales Quantity by Country

(2021-2032)

10.3.2 South America Double Acting Hydraulic Piston Seal Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Double Acting Hydraulic Piston Seal Sales Quantity by Type

(2021-2032)

11.2 Middle East & Africa Double Acting Hydraulic Piston Seal Sales Quantity by

Application (2021-2032)

11.3 Middle East & Africa Double Acting Hydraulic Piston Seal Market Size by Country

11.3.1 Middle East & Africa Double Acting Hydraulic Piston Seal Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Double Acting Hydraulic Piston Seal Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

- 11.3.4 Egypt Market Size and Forecast (2021-2032)
- 11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
- 11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

- 12.1 Double Acting Hydraulic Piston Seal Market Drivers
- 12.2 Double Acting Hydraulic Piston Seal Market Restraints
- 12.3 Double Acting Hydraulic Piston Seal Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers
 - 12.4.4 Threat of Substitutes
 - 12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Double Acting Hydraulic Piston Seal and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Double Acting Hydraulic Piston Seal
- 13.3 Double Acting Hydraulic Piston Seal Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Double Acting Hydraulic Piston Seal Typical Distributors
- 14.3 Double Acting Hydraulic Piston Seal Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Double Acting Hydraulic Piston Seal Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Double Acting Hydraulic Piston Seal Consumption Value by Max Pressure, (USD Million), 2021 & 2025 & 2032

Table 3. Global Double Acting Hydraulic Piston Seal Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 4. SKF Basic Information, Manufacturing Base and Competitors

Table 5. SKF Major Business

Table 6. SKF Double Acting Hydraulic Piston Seal Product and Services

Table 7. SKF Double Acting Hydraulic Piston Seal Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 8. SKF Recent Developments/Updates

Table 9. Parker Basic Information, Manufacturing Base and Competitors

Table 10. Parker Major Business

Table 11. Parker Double Acting Hydraulic Piston Seal Product and Services

Table 12. Parker Double Acting Hydraulic Piston Seal Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 13. Parker Recent Developments/Updates

Table 14. Chesterton Basic Information, Manufacturing Base and Competitors

Table 15. Chesterton Major Business

Table 16. Chesterton Double Acting Hydraulic Piston Seal Product and Services

Table 17. Chesterton Double Acting Hydraulic Piston Seal Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 18. Chesterton Recent Developments/Updates

Table 19. Trelleborg Basic Information, Manufacturing Base and Competitors

Table 20. Trelleborg Major Business

Table 21. Trelleborg Double Acting Hydraulic Piston Seal Product and Services

Table 22. Trelleborg Double Acting Hydraulic Piston Seal Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 23. Trelleborg Recent Developments/Updates

Table 24. GARLOCK Basic Information, Manufacturing Base and Competitors

Table 25. GARLOCK Major Business

Table 26. GARLOCK Double Acting Hydraulic Piston Seal Product and Services

Table 27. GARLOCK Double Acting Hydraulic Piston Seal Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 28. GARLOCK Recent Developments/Updates

Table 29. Freudenberg Basic Information, Manufacturing Base and Competitors

Table 30. Freudenberg Major Business

Table 31. Freudenberg Double Acting Hydraulic Piston Seal Product and Services

Table 32. Freudenberg Double Acting Hydraulic Piston Seal Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 33. Freudenberg Recent Developments/Updates

Table 34. UTEC Basic Information, Manufacturing Base and Competitors

Table 35. UTEC Major Business

Table 36. UTEC Double Acting Hydraulic Piston Seal Product and Services

Table 37. UTEC Double Acting Hydraulic Piston Seal Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 38. UTEC Recent Developments/Updates

Table 39. PPE Seals Basic Information, Manufacturing Base and Competitors

Table 40. PPE Seals Major Business

Table 41. PPE Seals Double Acting Hydraulic Piston Seal Product and Services

Table 42. PPE Seals Double Acting Hydraulic Piston Seal Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 43. PPE Seals Recent Developments/Updates

Table 44. James Walker Basic Information, Manufacturing Base and Competitors

Table 45. James Walker Major Business

Table 46. James Walker Double Acting Hydraulic Piston Seal Product and Services

Table 47. James Walker Double Acting Hydraulic Piston Seal Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 48. James Walker Recent Developments/Updates

Table 49. Hallite Basic Information, Manufacturing Base and Competitors

Table 50. Hallite Major Business

Table 51. Hallite Double Acting Hydraulic Piston Seal Product and Services

Table 52. Hallite Double Acting Hydraulic Piston Seal Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 53. Hallite Recent Developments/Updates

Table 54. NOK Basic Information, Manufacturing Base and Competitors

Table 55. NOK Major Business

- Table 56. NOK Double Acting Hydraulic Piston Seal Product and Services
- Table 57. NOK Double Acting Hydraulic Piston Seal Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 58. NOK Recent Developments/Updates
- Table 59. Max Spare Basic Information, Manufacturing Base and Competitors
- Table 60. Max Spare Major Business
- Table 61. Max Spare Double Acting Hydraulic Piston Seal Product and Services
- Table 62. Max Spare Double Acting Hydraulic Piston Seal Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 63. Max Spare Recent Developments/Updates
- Table 64. Kastas Sealing Technologies Basic Information, Manufacturing Base and Competitors
- Table 65. Kastas Sealing Technologies Major Business
- Table 66. Kastas Sealing Technologies Double Acting Hydraulic Piston Seal Product and Services
- Table 67. Kastas Sealing Technologies Double Acting Hydraulic Piston Seal Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 68. Kastas Sealing Technologies Recent Developments/Updates
- Table 69. TTV GmbH Basic Information, Manufacturing Base and Competitors
- Table 70. TTV GmbH Major Business
- Table 71. TTV GmbH Double Acting Hydraulic Piston Seal Product and Services
- Table 72. TTV GmbH Double Acting Hydraulic Piston Seal Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 73. TTV GmbH Recent Developments/Updates
- Table 74. FiPur Basic Information, Manufacturing Base and Competitors
- Table 75. FiPur Major Business
- Table 76. FiPur Double Acting Hydraulic Piston Seal Product and Services
- Table 77. FiPur Double Acting Hydraulic Piston Seal Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 78. FiPur Recent Developments/Updates
- Table 79. Global Double Acting Hydraulic Piston Seal Sales Quantity by Manufacturer (2021-2026) & (K Units)
- Table 80. Global Double Acting Hydraulic Piston Seal Revenue by Manufacturer (2021-2026) & (USD Million)
- Table 81. Global Double Acting Hydraulic Piston Seal Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 82. Market Position of Manufacturers in Double Acting Hydraulic Piston Seal, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 83. Head Office and Double Acting Hydraulic Piston Seal Production Site of Key Manufacturer

Table 84. Double Acting Hydraulic Piston Seal Market: Company Product Type Footprint

Table 85. Double Acting Hydraulic Piston Seal Market: Company Product Application Footprint

Table 86. Double Acting Hydraulic Piston Seal New Market Entrants and Barriers to Market Entry

Table 87. Double Acting Hydraulic Piston Seal Mergers, Acquisition, Agreements, and Collaborations

Table 88. Global Double Acting Hydraulic Piston Seal Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 89. Global Double Acting Hydraulic Piston Seal Sales Quantity by Region (2021-2026) & (K Units)

Table 90. Global Double Acting Hydraulic Piston Seal Sales Quantity by Region (2027-2032) & (K Units)

Table 91. Global Double Acting Hydraulic Piston Seal Consumption Value by Region (2021-2026) & (USD Million)

Table 92. Global Double Acting Hydraulic Piston Seal Consumption Value by Region (2027-2032) & (USD Million)

Table 93. Global Double Acting Hydraulic Piston Seal Average Price by Region (2021-2026) & (US\$/Unit)

Table 94. Global Double Acting Hydraulic Piston Seal Average Price by Region (2027-2032) & (US\$/Unit)

Table 95. Global Double Acting Hydraulic Piston Seal Sales Quantity by Type (2021-2026) & (K Units)

Table 96. Global Double Acting Hydraulic Piston Seal Sales Quantity by Type (2027-2032) & (K Units)

Table 97. Global Double Acting Hydraulic Piston Seal Consumption Value by Type (2021-2026) & (USD Million)

Table 98. Global Double Acting Hydraulic Piston Seal Consumption Value by Type (2027-2032) & (USD Million)

Table 99. Global Double Acting Hydraulic Piston Seal Average Price by Type (2021-2026) & (US\$/Unit)

Table 100. Global Double Acting Hydraulic Piston Seal Average Price by Type (2027-2032) & (US\$/Unit)

Table 101. Global Double Acting Hydraulic Piston Seal Sales Quantity by Application

(2021-2026) & (K Units)

Table 102. Global Double Acting Hydraulic Piston Seal Sales Quantity by Application (2027-2032) & (K Units)

Table 103. Global Double Acting Hydraulic Piston Seal Consumption Value by Application (2021-2026) & (USD Million)

Table 104. Global Double Acting Hydraulic Piston Seal Consumption Value by Application (2027-2032) & (USD Million)

Table 105. Global Double Acting Hydraulic Piston Seal Average Price by Application (2021-2026) & (US\$/Unit)

Table 106. Global Double Acting Hydraulic Piston Seal Average Price by Application (2027-2032) & (US\$/Unit)

Table 107. North America Double Acting Hydraulic Piston Seal Sales Quantity by Type (2021-2026) & (K Units)

Table 108. North America Double Acting Hydraulic Piston Seal Sales Quantity by Type (2027-2032) & (K Units)

Table 109. North America Double Acting Hydraulic Piston Seal Sales Quantity by Application (2021-2026) & (K Units)

Table 110. North America Double Acting Hydraulic Piston Seal Sales Quantity by Application (2027-2032) & (K Units)

Table 111. North America Double Acting Hydraulic Piston Seal Sales Quantity by Country (2021-2026) & (K Units)

Table 112. North America Double Acting Hydraulic Piston Seal Sales Quantity by Country (2027-2032) & (K Units)

Table 113. North America Double Acting Hydraulic Piston Seal Consumption Value by Country (2021-2026) & (USD Million)

Table 114. North America Double Acting Hydraulic Piston Seal Consumption Value by Country (2027-2032) & (USD Million)

Table 115. Europe Double Acting Hydraulic Piston Seal Sales Quantity by Type (2021-2026) & (K Units)

Table 116. Europe Double Acting Hydraulic Piston Seal Sales Quantity by Type (2027-2032) & (K Units)

Table 117. Europe Double Acting Hydraulic Piston Seal Sales Quantity by Application (2021-2026) & (K Units)

Table 118. Europe Double Acting Hydraulic Piston Seal Sales Quantity by Application (2027-2032) & (K Units)

Table 119. Europe Double Acting Hydraulic Piston Seal Sales Quantity by Country (2021-2026) & (K Units)

Table 120. Europe Double Acting Hydraulic Piston Seal Sales Quantity by Country (2027-2032) & (K Units)

Table 121. Europe Double Acting Hydraulic Piston Seal Consumption Value by Country (2021-2026) & (USD Million)

Table 122. Europe Double Acting Hydraulic Piston Seal Consumption Value by Country (2027-2032) & (USD Million)

Table 123. Asia-Pacific Double Acting Hydraulic Piston Seal Sales Quantity by Type (2021-2026) & (K Units)

Table 124. Asia-Pacific Double Acting Hydraulic Piston Seal Sales Quantity by Type (2027-2032) & (K Units)

Table 125. Asia-Pacific Double Acting Hydraulic Piston Seal Sales Quantity by Application (2021-2026) & (K Units)

Table 126. Asia-Pacific Double Acting Hydraulic Piston Seal Sales Quantity by Application (2027-2032) & (K Units)

Table 127. Asia-Pacific Double Acting Hydraulic Piston Seal Sales Quantity by Region (2021-2026) & (K Units)

Table 128. Asia-Pacific Double Acting Hydraulic Piston Seal Sales Quantity by Region (2027-2032) & (K Units)

Table 129. Asia-Pacific Double Acting Hydraulic Piston Seal Consumption Value by Region (2021-2026) & (USD Million)

Table 130. Asia-Pacific Double Acting Hydraulic Piston Seal Consumption Value by Region (2027-2032) & (USD Million)

Table 131. South America Double Acting Hydraulic Piston Seal Sales Quantity by Type (2021-2026) & (K Units)

Table 132. South America Double Acting Hydraulic Piston Seal Sales Quantity by Type (2027-2032) & (K Units)

Table 133. South America Double Acting Hydraulic Piston Seal Sales Quantity by Application (2021-2026) & (K Units)

Table 134. South America Double Acting Hydraulic Piston Seal Sales Quantity by Application (2027-2032) & (K Units)

Table 135. South America Double Acting Hydraulic Piston Seal Sales Quantity by Country (2021-2026) & (K Units)

Table 136. South America Double Acting Hydraulic Piston Seal Sales Quantity by Country (2027-2032) & (K Units)

Table 137. South America Double Acting Hydraulic Piston Seal Consumption Value by Country (2021-2026) & (USD Million)

Table 138. South America Double Acting Hydraulic Piston Seal Consumption Value by Country (2027-2032) & (USD Million)

Table 139. Middle East & Africa Double Acting Hydraulic Piston Seal Sales Quantity by Type (2021-2026) & (K Units)

Table 140. Middle East & Africa Double Acting Hydraulic Piston Seal Sales Quantity by

Type (2027-2032) & (K Units)

Table 141. Middle East & Africa Double Acting Hydraulic Piston Seal Sales Quantity by Application (2021-2026) & (K Units)

Table 142. Middle East & Africa Double Acting Hydraulic Piston Seal Sales Quantity by Application (2027-2032) & (K Units)

Table 143. Middle East & Africa Double Acting Hydraulic Piston Seal Sales Quantity by Country (2021-2026) & (K Units)

Table 144. Middle East & Africa Double Acting Hydraulic Piston Seal Sales Quantity by Country (2027-2032) & (K Units)

Table 145. Middle East & Africa Double Acting Hydraulic Piston Seal Consumption Value by Country (2021-2026) & (USD Million)

Table 146. Middle East & Africa Double Acting Hydraulic Piston Seal Consumption Value by Country (2027-2032) & (USD Million)

Table 147. Double Acting Hydraulic Piston Seal Raw Material

Table 148. Key Manufacturers of Double Acting Hydraulic Piston Seal Raw Materials

Table 149. Double Acting Hydraulic Piston Seal Typical Distributors

Table 150. Double Acting Hydraulic Piston Seal Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Double Acting Hydraulic Piston Seal Picture
- Figure 2. Global Double Acting Hydraulic Piston Seal Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Double Acting Hydraulic Piston Seal Revenue Market Share by Type in 2025
- Figure 4. NBR (Nitrile Rubber) Examples
- Figure 5. FKM (Fluorine Rubber) Examples
- Figure 6. EPDM (Ethylene-Propylene-Diene Rubber) Examples
- Figure 7. PTFE (Polytetrafluoroethylene) Examples
- Figure 8. Global Double Acting Hydraulic Piston Seal Revenue by Max Pressure, (USD Million), 2021 & 2025 & 2032
- Figure 9. Global Double Acting Hydraulic Piston Seal Revenue Market Share by Max Pressure in 2025
- Figure 10. Max Pressure: 300 Bar Examples
- Figure 11. Max Pressure: 500 Bar Examples
- Figure 12. Max Pressure: 700 Bar Examples
- Figure 13. Others Examples
- Figure 14. Global Double Acting Hydraulic Piston Seal Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 15. Global Double Acting Hydraulic Piston Seal Revenue Market Share by Application in 2025
- Figure 16. Automotive Examples
- Figure 17. Machinery Examples
- Figure 18. Aerospace Examples
- Figure 19. Marine Examples
- Figure 20. Others Examples
- Figure 21. Global Double Acting Hydraulic Piston Seal Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 22. Global Double Acting Hydraulic Piston Seal Consumption Value and Forecast (2021-2032) & (USD Million)
- Figure 23. Global Double Acting Hydraulic Piston Seal Sales Quantity (2021-2032) & (K Units)
- Figure 24. Global Double Acting Hydraulic Piston Seal Price (2021-2032) & (US\$/Unit)
- Figure 25. Global Double Acting Hydraulic Piston Seal Sales Quantity Market Share by Manufacturer in 2025

Figure 26. Global Double Acting Hydraulic Piston Seal Revenue Market Share by Manufacturer in 2025

Figure 27. Producer Shipments of Double Acting Hydraulic Piston Seal by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 28. Top 3 Double Acting Hydraulic Piston Seal Manufacturer (Revenue) Market Share in 2025

Figure 29. Top 6 Double Acting Hydraulic Piston Seal Manufacturer (Revenue) Market Share in 2025

Figure 30. Global Double Acting Hydraulic Piston Seal Sales Quantity Market Share by Region (2021-2032)

Figure 31. Global Double Acting Hydraulic Piston Seal Consumption Value Market Share by Region (2021-2032)

Figure 32. North America Double Acting Hydraulic Piston Seal Consumption Value (2021-2032) & (USD Million)

Figure 33. Europe Double Acting Hydraulic Piston Seal Consumption Value (2021-2032) & (USD Million)

Figure 34. Asia-Pacific Double Acting Hydraulic Piston Seal Consumption Value (2021-2032) & (USD Million)

Figure 35. South America Double Acting Hydraulic Piston Seal Consumption Value (2021-2032) & (USD Million)

Figure 36. Middle East & Africa Double Acting Hydraulic Piston Seal Consumption Value (2021-2032) & (USD Million)

Figure 37. Global Double Acting Hydraulic Piston Seal Sales Quantity Market Share by Type (2021-2032)

Figure 38. Global Double Acting Hydraulic Piston Seal Consumption Value Market Share by Type (2021-2032)

Figure 39. Global Double Acting Hydraulic Piston Seal Average Price by Type (2021-2032) & (US\$/Unit)

Figure 40. Global Double Acting Hydraulic Piston Seal Sales Quantity Market Share by Application (2021-2032)

Figure 41. Global Double Acting Hydraulic Piston Seal Revenue Market Share by Application (2021-2032)

Figure 42. Global Double Acting Hydraulic Piston Seal Average Price by Application (2021-2032) & (US\$/Unit)

Figure 43. North America Double Acting Hydraulic Piston Seal Sales Quantity Market Share by Type (2021-2032)

Figure 44. North America Double Acting Hydraulic Piston Seal Sales Quantity Market Share by Application (2021-2032)

Figure 45. North America Double Acting Hydraulic Piston Seal Sales Quantity Market

Share by Country (2021-2032)

Figure 46. North America Double Acting Hydraulic Piston Seal Consumption Value Market Share by Country (2021-2032)

Figure 47. United States Double Acting Hydraulic Piston Seal Consumption Value (2021-2032) & (USD Million)

Figure 48. Canada Double Acting Hydraulic Piston Seal Consumption Value (2021-2032) & (USD Million)

Figure 49. Mexico Double Acting Hydraulic Piston Seal Consumption Value (2021-2032) & (USD Million)

Figure 50. Europe Double Acting Hydraulic Piston Seal Sales Quantity Market Share by Type (2021-2032)

Figure 51. Europe Double Acting Hydraulic Piston Seal Sales Quantity Market Share by Application (2021-2032)

Figure 52. Europe Double Acting Hydraulic Piston Seal Sales Quantity Market Share by Country (2021-2032)

Figure 53. Europe Double Acting Hydraulic Piston Seal Consumption Value Market Share by Country (2021-2032)

Figure 54. Germany Double Acting Hydraulic Piston Seal Consumption Value (2021-2032) & (USD Million)

Figure 55. France Double Acting Hydraulic Piston Seal Consumption Value (2021-2032) & (USD Million)

Figure 56. United Kingdom Double Acting Hydraulic Piston Seal Consumption Value (2021-2032) & (USD Million)

Figure 57. Russia Double Acting Hydraulic Piston Seal Consumption Value (2021-2032) & (USD Million)

Figure 58. Italy Double Acting Hydraulic Piston Seal Consumption Value (2021-2032) & (USD Million)

Figure 59. Asia-Pacific Double Acting Hydraulic Piston Seal Sales Quantity Market Share by Type (2021-2032)

Figure 60. Asia-Pacific Double Acting Hydraulic Piston Seal Sales Quantity Market Share by Application (2021-2032)

Figure 61. Asia-Pacific Double Acting Hydraulic Piston Seal Sales Quantity Market Share by Region (2021-2032)

Figure 62. Asia-Pacific Double Acting Hydraulic Piston Seal Consumption Value Market Share by Region (2021-2032)

Figure 63. China Double Acting Hydraulic Piston Seal Consumption Value (2021-2032) & (USD Million)

Figure 64. Japan Double Acting Hydraulic Piston Seal Consumption Value (2021-2032) & (USD Million)

Figure 65. South Korea Double Acting Hydraulic Piston Seal Consumption Value (2021-2032) & (USD Million)

Figure 66. India Double Acting Hydraulic Piston Seal Consumption Value (2021-2032) & (USD Million)

Figure 67. Southeast Asia Double Acting Hydraulic Piston Seal Consumption Value (2021-2032) & (USD Million)

Figure 68. Australia Double Acting Hydraulic Piston Seal Consumption Value (2021-2032) & (USD Million)

Figure 69. South America Double Acting Hydraulic Piston Seal Sales Quantity Market Share by Type (2021-2032)

Figure 70. South America Double Acting Hydraulic Piston Seal Sales Quantity Market Share by Application (2021-2032)

Figure 71. South America Double Acting Hydraulic Piston Seal Sales Quantity Market Share by Country (2021-2032)

Figure 72. South America Double Acting Hydraulic Piston Seal Consumption Value Market Share by Country (2021-2032)

Figure 73. Brazil Double Acting Hydraulic Piston Seal Consumption Value (2021-2032) & (USD Million)

Figure 74. Argentina Double Acting Hydraulic Piston Seal Consumption Value (2021-2032) & (USD Million)

Figure 75. Middle East & Africa Double Acting Hydraulic Piston Seal Sales Quantity Market Share by Type (2021-2032)

Figure 76. Middle East & Africa Double Acting Hydraulic Piston Seal Sales Quantity Market Share by Application (2021-2032)

Figure 77. Middle East & Africa Double Acting Hydraulic Piston Seal Sales Quantity Market Share by Country (2021-2032)

Figure 78. Middle East & Africa Double Acting Hydraulic Piston Seal Consumption Value Market Share by Country (2021-2032)

Figure 79. Turkey Double Acting Hydraulic Piston Seal Consumption Value (2021-2032) & (USD Million)

Figure 80. Egypt Double Acting Hydraulic Piston Seal Consumption Value (2021-2032) & (USD Million)

Figure 81. Saudi Arabia Double Acting Hydraulic Piston Seal Consumption Value (2021-2032) & (USD Million)

Figure 82. South Africa Double Acting Hydraulic Piston Seal Consumption Value (2021-2032) & (USD Million)

Figure 83. Double Acting Hydraulic Piston Seal Market Drivers

Figure 84. Double Acting Hydraulic Piston Seal Market Restraints

Figure 85. Double Acting Hydraulic Piston Seal Market Trends

Figure 86. Porters Five Forces Analysis

Figure 87. Manufacturing Cost Structure Analysis of Double Acting Hydraulic Piston Seal in 2025

Figure 88. Manufacturing Process Analysis of Double Acting Hydraulic Piston Seal

Figure 89. Double Acting Hydraulic Piston Seal Industrial Chain

Figure 90. Sales Channel: Direct to End-User vs Distributors

Figure 91. Direct Channel Pros & Cons

Figure 92. Indirect Channel Pros & Cons

Figure 93. Methodology

Figure 94. Research Process and Data Source

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