

Global Severe-Duty (Slurry) Ball Valves 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 Severe-Duty (Slurry) Ball Valves market size was valued at US\$ 690 million in 2025 and is forecast to a readjusted size of US\$ 922 million by 2032 with a CAGR of 4.3% during review period.

In 2024, global Severe-Duty (Slurry) Ball Valves production reached approximately 44.5 K units, with an average global market price of around US\$ 14.2 K per unit.

Severe-Duty (Slurry) Ball Valves are specialized valves engineered for controlling highly abrasive and solid-laden fluids such as slurry, ash and sludge. These valves are typically full-bore, feature reinforced bodies, and have hardened or coated balls with materials such as tungsten carbide or ceramics to enhance wear resistance and prolong service life. Depending on size, they are categorized into valves under DN100, DN100?600, and above DN600, suitable for a wide range of flow capacities and working conditions. These valves are essential in industries like mining, power generation, chemicals, and water treatment, ensuring operational safety and continuity in extreme service environments.

The upstream materials for Severe-Duty (Slurry) Ball Valves include high-performance stainless steel (e.g., 316L, duplex 2205), hardfacing alloys (e.g., tungsten carbide, nickel alloys), ceramic linings (such as alumina or silicon carbide), and corrosion-resistant sealing components. Key suppliers include Baosteel and Angang Steel in China for stainless steel; Kennametal (USA) and CERATIZIT (Europe) for wear-resistant tungsten carbide components; CeramTec (Germany) for technical ceramics; and DuPont (USA) for advanced elastomers used in sealing systems.

These valves are widely used in mining, power generation, chemical processing, water treatment, etc. Key end users include Zijin Mining, Jiangxi Copper, and Yankuang Energy in mining; Huaneng Group and Huadian Group in the power sector; BASF and Wanhua Chemical in chemicals; and Beijing Enterprises Water Group and CECEP Water in wastewater treatment.

Due to their high technical complexity, value-added features, and reliability in critical processes, Severe-Duty (Slurry) Ball Valves typically achieve higher-than-average gross profit margins. Industry average gross margins range from 20% to 35%. Gross margins are influenced by raw material costs, production difficulty, and the degree of project-based customization, but overall profitability significantly exceeds that of standard industrial ball valves.

These valves are categorized by size into less than DN100, DN100 to 600, and above DN600 types, with the DN100 to 600 segment dominating the market and accounting for approximately 89% of the global market share in 2024. This dominance reflects the suitability and versatility of medium-sized valves as the preferred choice across industries.

Mining is the leading application sector for severe-duty slurry ball valves, driven by the critical requirements of slurry transport and tailings management, where high durability and corrosion resistance are essential. The power generation, chemical, and water treatment industries also contribute significantly to market demand, supporting applications such as ash handling in power plants, corrosive chemical fluid transport, and industrial wastewater treatment. Although other sectors currently represent smaller shares, growing industrial automation and environmental standards indicate strong future potential.

Market driving factors include the sustained demand from mining and power industries for high-performance valves, reinforced by global infrastructure development and stricter environmental regulations promoting durable, reliable products. Technological advancements have further enhanced valve sealing and longevity, increasing user reliance on these valves. Market restraints stem from fluctuations in raw material costs, the complexity and expense of manufacturing processes, and intense competition in certain regions, which together constrain profitability.

Leading manufacturers such as MOGAS Industries, Velan, Emerson, Bray, and DEZURIK possess mature production lines and comprehensive product portfolios that cater to various sizes and operating conditions. By optimizing supply chains and

investing in R&D, these companies continually improve capacity and product quality, securing their positions at the forefront of the market.

This report is a detailed and comprehensive analysis for global Severe-Duty (Slurry) Ball Valves 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 Severe-Duty (Slurry) Ball Valves market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Severe-Duty (Slurry) Ball Valves market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Severe-Duty (Slurry) Ball Valves market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Severe-Duty (Slurry) Ball Valves market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K 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 Severe-Duty (Slurry) Ball Valves

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 Severe-Duty (Slurry) Ball Valves 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 MOGAS Industries, Velan, Emerson, Bray, DEZURIK, AMPO, ValvTechnologies, Valmet, KLINGER, Forum Energy Technologies, etc.

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

Market Segmentation

Severe-Duty (Slurry) Ball Valves 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

Less than DN 100

DN 100-600

Above DN 600

Market segment by Application

Mining

Power Generation

Chemicals

Water Treatment

Others

Major players covered

MOGAS Industries

Velan

Emerson

Bray

DEZURIK

AMPO

ValvTechnologies

Valmet

KLINGER

Forum Energy Technologies

ORBINOX

Copeland Valve (ValSource International)

CRANE ChemPharma & Energy

Lianda Valve

Yuanda Valve

Shanghai Nuwave Valve

Guogong Holding Group

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 Severe-Duty (Slurry) Ball Valves product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Severe-Duty (Slurry) Ball Valves, with price, sales quantity, revenue, and global market share of Severe-Duty (Slurry) Ball Valves from 2021 to 2026.

Chapter 3, the Severe-Duty (Slurry) Ball Valves competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Severe-Duty (Slurry) Ball Valves 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 Severe-Duty (Slurry) Ball Valves 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 Severe-Duty (Slurry) Ball Valves.

Chapter 14 and 15, to describe Severe-Duty (Slurry) Ball Valves sales channel, distributors, customers, research findings and conclusion.

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