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Global Fluid Viscous Dampers (FVD) 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 Fluid Viscous Dampers (FVD) market size was valued at US$ 175 million in 2025 and is forecast to a readjusted size of US$ 222 million by 2032 with a CAGR of 3.5% during review period.

Fluid Viscous Dampers are structural energy-dissipation devices that use viscous fluid movement through an internal piston, orifice, valve system, or equivalent throttling path to convert seismic, wind, or vibration energy into heat. Their core function is to reduce displacement, acceleration, member force, and structural damage in buildings, bridges, transport terminals, industrial facilities, energy facilities, and other civil structures. The Fluid Viscous Dampers product scope covers the damper body as a delivered unit, including cylinder, piston, rod, seal system, viscous medium, damping valve or orifice, and standard end connections when sold as one unit. The main production barrier is the ability to control force, stroke, velocity exponent, leakage, fatigue life, and test repeatability across customized project specifications.

Downstream users of Fluid Viscous Dampers include building owners, bridge authorities, railway and airport owners, public works departments, industrial plant owners, power and petrochemical operators, general contractors, and structural engineering firms. Procurement is usually project-based. Public schools, hospitals, bridges, railway terminals, airports, and public buildings often use public tendering, qualified supplier catalogs, project-specific testing, and engineering design review. Private buildings and industrial facilities typically rely on consultant specifications followed by direct negotiation or limited tendering. The market is not a retail catalog market because each unit is selected by maximum damping force, design stroke, velocity exponent, damping coefficient, installation geometry, connection type, and test

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requirement. Typical gross margin is estimated at 32.0 percent. The margin is supported by customized engineering, dynamic test capability, certification records, project references, and reliability requirements, but is constrained by steel fabrication cost, machining cost, seal quality, third-party testing, and competitive bidding pressure. In the current market, global production of Fluid Viscous Dampers is around 63,000 Unit, with an average selling price of about 2,700 USD per Unit EXW basis. Top 5 suppliers control approximately 32 percent of global revenue CR5.

China is the largest demand-side unit market because building seismic reinforcement, school and hospital projects, provincial product catalogs, and domestic producer capacity have expanded the use of FVDs in ordinary and public buildings. North America, Europe, Japan, India, and selected Middle Eastern markets have fewer units but higher ASP because bridge, airport, energy, and large-retrofit projects use higher-force and longer-stroke dampers. From 2026 to 2032, demand should grow with seismic resilience codes, retrofit of aging public buildings, infrastructure renewal, bridge protection, and higher documentation requirements for damping devices. Technical development will focus on higher reliability seals, wider temperature ranges, better dynamic test traceability, project-specific velocity exponent tuning, digital quality records, and sensor-ready or AI-supported structural health monitoring. Cost pressure will remain visible in steel, machining, logistics, testing, and certification. The main bottlenecks are project approval cycles, full-scale dynamic testing capacity, engineering qualification, long building replacement cycles, and the limited number of manufacturers able to supply consistent performance data at scale.

This report is a detailed and comprehensive analysis for global Fluid Viscous Dampers (FVD) market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Velocity Exponent 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 Fluid Viscous Dampers (FVD) market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Fluid Viscous Dampers (FVD) market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling prices

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(US$/Unit), 2021-2032

Global Fluid Viscous Dampers (FVD) market size and forecasts, by Velocity Exponent and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Fluid Viscous Dampers (FVD) 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 Fluid Viscous Dampers (FVD)

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 Fluid Viscous Dampers (FVD) 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 Taylor Devices, FIP MEC, MAURER, Freyssinet, ITT Enidine, CECO Infratech, Kawakin Core-Tech, Zhenan Technology, Jiangsu ROAD Damping Technology, Nanjing Dade Seismic Technology, etc.

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

Market Segmentation

Fluid Viscous Dampers (FVD) market is split by Velocity Exponent and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Velocity Exponent, 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 Velocity Exponent

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Low-Exponent Nonlinear FVD

Standard Nonlinear FVD

Linear FVD

Superlinear FVD

Market segment by Rated Damping Force

Fmax below 750 kN

Fmax 750 kN to 1500 kN

Fmax above 1500 kN

Market segment by Design Stroke

Stroke below 75 mm

Stroke 75 mm to 150 mm

Stroke above 150 mm to 300 mm

Stroke above 300 mm

Market segment by Application

Building Structures

Bridge Structures

Industrial Facilities

Energy Facilities

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Transport Terminals

Other Civil Structures

Major players covered

Taylor Devices

FIP MEC

MAURER

Freyssinet

ITT Enidine

CECO Infratech

Kawakin Core-Tech

Zhenan Technology

Jiangsu ROAD Damping Technology

Nanjing Dade Seismic Technology

Jiangsu ForceSet Vibration Control Technology

Shanghai RB Vibration Science And Technology

Yunnan Kuiran Seismic Damping Technology

Beijing Baoruisi Seismic Technology

Shanghai Shidier Building Shock Absorption Technology

Lanke Building Damping

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Huazhong Jianke

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 Fluid Viscous Dampers (FVD) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Fluid Viscous Dampers (FVD), with price, sales quantity, revenue, and global market share of Fluid Viscous Dampers (FVD) from 2021 to 2026.

Chapter 3, the Fluid Viscous Dampers (FVD) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Fluid Viscous Dampers (FVD) 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 Velocity Exponent and by Application, with sales market share and growth rate by Velocity Exponent, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales

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quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Fluid Viscous Dampers (FVD) market forecast, by regions, by Velocity Exponent, 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 Fluid Viscous Dampers (FVD).

Chapter 14 and 15, to describe Fluid Viscous Dampers (FVD) sales channel, distributors, customers, research findings and conclusion.

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4 CONSUMPTION ANALYSIS BY REGION

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