

Global Fluid Viscous Dampers (FVD) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Fluid Viscous Dampers (FVD) market size is expected to reach \$ 222 million by 2032, rising at a market growth of 3.5% CAGR during the forecast period (2026-2032).

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 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 studies the global Fluid Viscous Dampers (FVD) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Fluid Viscous Dampers (FVD) 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 Fluid Viscous Dampers (FVD) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Fluid Viscous Dampers (FVD) total production and demand, 2021-2032, (K Units)

Global Fluid Viscous Dampers (FVD) total production value, 2021-2032, (USD Million)

Global Fluid Viscous Dampers (FVD) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Fluid Viscous Dampers (FVD) consumption by region & country, CAGR,

2021-2032 & (K Units)

U.S. VS China: Fluid Viscous Dampers (FVD) domestic production, consumption, key domestic manufacturers and share

Global Fluid Viscous Dampers (FVD) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Fluid Viscous Dampers (FVD) production by Velocity Exponent, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Fluid Viscous Dampers (FVD) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Fluid Viscous Dampers (FVD) 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Fluid Viscous Dampers (FVD) 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 Velocity Exponent, 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 Fluid Viscous Dampers (FVD) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Fluid Viscous Dampers (FVD) Market, Segmentation by Velocity Exponent:

Low-Exponent Nonlinear FVD

Standard Nonlinear FVD

Linear FVD

Superlinear FVD

Global Fluid Viscous Dampers (FVD) Market, Segmentation by Rated Damping Force:

Fmax below 750 kN

Fmax 750 kN to 1500 kN

Fmax above 1500 kN

Global Fluid Viscous Dampers (FVD) Market, Segmentation by Design Stroke:

Stroke below 75 mm

Stroke 75 mm to 150 mm

Stroke above 150 mm to 300 mm

Stroke above 300 mm

Global Fluid Viscous Dampers (FVD) Market, Segmentation by Application:

Building Structures

Bridge Structures

Industrial Facilities

Energy Facilities

Transport Terminals

Other Civil Structures

Companies Profiled:

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 Baoruise Seismic Technology

Shanghai Shidier Building Shock Absorption Technology

Lanke Building Damping

Huazhong Jianke

Key Questions Answered:

1. How big is the global Fluid Viscous Dampers (FVD) market?
2. What is the demand of the global Fluid Viscous Dampers (FVD) market?
3. What is the year over year growth of the global Fluid Viscous Dampers (FVD) market?
4. What is the production and production value of the global Fluid Viscous Dampers (FVD) market?
5. Who are the key producers in the global Fluid Viscous Dampers (FVD) market?
6. What are the growth factors driving the market demand?

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