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Global Fluid Viscous Dampers for Construction Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Fluid Viscous Dampers for Construction market size is expected to reach $ 179 million by 2032, rising at a market growth of 3.5% CAGR during the forecast period (2026-2032).

Fluid Viscous Dampers for Construction are structural damping devices installed in new buildings and existing-building retrofit projects to dissipate seismic, wind, or vibration energy through the controlled motion of viscous fluid inside a piston-cylinder device. Their function is to reduce inter-story drift, acceleration, stress concentration, and non-structural damage in public buildings, commercial towers, residential buildings, schools, hospitals, transport buildings, and other building-like civil structures. The 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.

Upstream supply is based on machined steel cylinders, plated rods, stable viscous fluids, sealing systems, spherical bearings, clevis ends, welding, surface treatment, and dynamic testing capacity. The principal barriers are not raw materials but force repeatability, leakage control, temperature stability, fatigue durability, velocity exponent control, and project acceptance testing. Downstream users include building developers, public works departments, school and hospital owners, airports and railway-station owners, general contractors, seismic consultants, and structural engineering firms. Procurement is mostly project-based. Public buildings, hospitals, schools, transportation buildings, and government-funded retrofit projects often use tendering, prequalified product catalogs, or engineer-specified procurement, while private commercial and residential projects usually use consultant specifications followed by limited tendering or negotiated supply. Typical gross margin is estimated at 31.0 percent, supported by

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customization, project qualification, testing capability, and reference records, but constrained by competitive bidding, steel fabrication, machining, seals, testing, and contractor procurement pressure. In the current market, global production is around 56,000 Unit, with an average selling price of about 2,450 USD per Unit EXW basis. Top 5 suppliers control approximately 30 percent of global revenue CR5.

The construction segment has lower ASP than the overall FVD market because it is dominated by short-stroke and medium-force building dampers rather than very high-force bridge or energy-infrastructure devices. China is the largest unit market, supported by building seismic policy, public-building retrofit, school and hospital projects, and a large domestic supplier base. North America, Europe, Japan, India, and selected Middle Eastern markets have smaller unit demand but higher average specification levels in high-rise buildings, public infrastructure buildings, and retrofit projects. From 2026 to 2032, demand should expand with seismic resilience codes, aging building stock, public infrastructure renewal, hospital and school safety upgrades, and documentation requirements for damping devices. Technical development will focus on more consistent velocity exponent control, compact installation layouts, lower maintenance seals, broader temperature stability, digital quality records, and sensor-ready or AI-supported structural health monitoring. The main bottlenecks are project approval cycles, qualified testing capacity, budget constraints in public retrofit projects, and the limited number of producers able to deliver repeatable performance data across large building programs.

This report studies the global Fluid Viscous Dampers for Construction production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study
Global Fluid Viscous Dampers for Construction total production and demand, 2021-2032, (K Units)
Global Fluid Viscous Dampers for Construction total production value, 2021-2032, (USD Million)
Global Fluid Viscous Dampers for Construction production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production

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site)
Global Fluid Viscous Dampers for Construction consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Fluid Viscous Dampers for Construction domestic production, consumption, key domestic manufacturers and share
Global Fluid Viscous Dampers for Construction production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Fluid Viscous Dampers for Construction production by Velocity Exponent, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Fluid Viscous Dampers for Construction production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Fluid Viscous Dampers for Construction 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 for Construction 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 for Construction Market, By Region:

United States

China

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Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Fluid Viscous Dampers for Construction Market, Segmentation by Velocity Exponent:

Low-Exponent Nonlinear FVD

Standard Nonlinear FVD

Linear FVD

Superlinear FVD

Global Fluid Viscous Dampers for Construction Market, Segmentation by Rated Damping Force:

Fmax below 750 kN

Fmax 750 kN to 1500 kN

Fmax above 1500 kN

Global Fluid Viscous Dampers for Construction Market, Segmentation by Design Stroke:

Stroke below 75 mm

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Stroke 75 mm to 150 mm

Stroke above 150 mm to 300 mm

Stroke above 300 mm

Global Fluid Viscous Dampers for Construction Market, Segmentation by Application:

Public Buildings

Commercial Buildings

Residential Buildings

Education Buildings

Healthcare Buildings

Transport Buildings

Existing Building Retrofit

Companies Profiled:

Taylor Devices

FIP MEC

MAURER

Freyssinet

ITT Enidine

CECO Infratech

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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

Huazhong Jianke

Key Questions Answered:
1. How big is the global Fluid Viscous Dampers for Construction market?
2. What is the demand of the global Fluid Viscous Dampers for Construction market?
3. What is the year over year growth of the global Fluid Viscous Dampers for Construction market?
4. What is the production and production value of the global Fluid Viscous Dampers for Construction market?
5. Who are the key producers in the global Fluid Viscous Dampers for Construction market?
6. What are the growth factors driving the market demand?

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