

Global Flameless Explosion Venting Device Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Flameless Explosion Venting Device market size is expected to reach \$ 264 million by 2032, rising at a market growth of 5.0% CAGR during the forecast period (2026-2032).

A Flameless Explosion Venting Device is a safety device installed on industrial equipment or vessels that are at risk of explosion, particularly from combustible dusts or gases, and where conventional explosion venting to open atmosphere is not possible. It allows the rapid release of explosion overpressure through a vent opening while simultaneously quenching the flame front and cooling hot gases, ensuring that no external flame propagation occurs. In 2025, global Flameless Explosion Venting Device production reached approximately 88 K units, with an average global market price of around US\$ 2000 per unit. The production capacity for Flameless Explosion Venting Device in 2025 was approximately 100 K units. The typical gross profit margin for Flameless Explosion Venting Device is between 20% and 40%.

The Flameless Explosion Venting Device market is a specialized segment of the industrial explosion protection market, focused on safety solutions for indoor and space-constrained installations. Flameless explosion venting devices are designed to relieve explosion pressure while preventing the release of flames and hot gases, enabling safe operation where conventional explosion venting to the outdoors is not possible. Market demand is primarily driven by dust explosion-prone industries, including food processing, pharmaceuticals, chemicals, wood processing, and metal powder handling, under increasingly strict compliance with ATEX (EN 16009), NFPA, and other explosion safety standards. Although smaller in size than traditional explosion venting markets, the flameless explosion venting device market is characterized by high technical barriers, strong regulatory dependence, and steady growth, supported by ongoing industrial safety upgrades and tightening explosion protection regulations worldwide. This report studies the global Flameless Explosion Venting Device production, demand,

key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Flameless Explosion Venting Device 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 Flameless Explosion Venting Device that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Flameless Explosion Venting Device total production and demand, 2021-2032, (K Units)

Global Flameless Explosion Venting Device total production value, 2021-2032, (USD Million)

Global Flameless Explosion Venting Device production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Flameless Explosion Venting Device consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Flameless Explosion Venting Device domestic production, consumption, key domestic manufacturers and share

Global Flameless Explosion Venting Device production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Flameless Explosion Venting Device production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Flameless Explosion Venting Device production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Flameless Explosion Venting Device 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 REMBE, IEP Technologies, Fike Corporation, Keller, STIF, RSBP spol, Camfil, Adix Ingenier?a, StuvEx International, Boss Products, 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 Flameless Explosion Venting Device 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 Type, 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 Flameless Explosion Venting Device Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Flameless Explosion Venting Device Market, Segmentation by Type:

Flame Arrester

Energy Absorption

Others

Global Flameless Explosion Venting Device Market, Segmentation by Installation:

Side-mounted

Top-mounted

Inline

Global Flameless Explosion Venting Device Market, Segmentation by Explosive Material:

For Dust Explosions

For Combustible Gas Use

Global Flameless Explosion Venting Device Market, Segmentation by Application:

Industrial Dust Collection & Powder Handling

Food & Agricultural Processing

Chemical & Pharmaceutical Industry

Metal Processing & Battery Materials

Others

Companies Profiled:

REMBE

IEP Technologies

Fike Corporation

Keller

STIF

RSBP spol

Camfil

Adix Ingenier?a

StuvEx International

Boss Products

CV Technology

Brilex

ATEX

VIGILEX

BS&B Safety Systems

VilloTech

Nederman

Zhengzhou Zhongtai Anke Powder Technology

Dingguan Huile Environmental Protection

Key Questions Answered:

1. How big is the global Flameless Explosion Venting Device market?
2. What is the demand of the global Flameless Explosion Venting Device market?
3. What is the year over year growth of the global Flameless Explosion Venting Device market?
4. What is the production and production value of the global Flameless Explosion Venting Device market?
5. Who are the key producers in the global Flameless Explosion Venting Device market?
6. What are the growth factors driving the market demand?

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