

Global Fluid Connector Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Fluid Connector market size is expected to reach \$ 10616 million by 2032, rising at a market growth of 13.6% CAGR during the forecast period (2026-2032).

In 2025, global Fluid Connector production reached approximately 106 million units, with an average global market price of around US\$40 per unit.

A Fluid Connector is a functional component used to connect, disconnect, seal, and transfer liquid or gas media between pipelines, equipment, valves, pumps, cooling systems, and actuators. It typically includes quick couplings, tube fittings, hydraulic connectors, pneumatic connectors, coolant connectors, and dry-break couplings. Its core function is to ensure stable fluid transmission under specific pressure, flow, temperature, and operating conditions while reducing leakage risks and improving system maintainability. Fluid connectors are widely used in industrial equipment, construction machinery, automotive systems, aerospace, medical devices, data center liquid cooling, energy equipment, and automation systems, making them essential components in fluid control and transfer systems.

The upstream segment of the fluid connector industry mainly includes suppliers of stainless steel, copper alloys, aluminum alloys, engineering plastics, sealing elastomers, springs, valve cores, and precision machined components, with representative companies such as DuPont, Covestro, Parker Hannifin, Saint-Gobain, Outokumpu, and Norsk Hydro. The midstream sector consists of fluid connector and quick coupling manufacturers, including Parker Hannifin, Eaton, Staubli, CPC, Danfoss, SMC, and Festo. Downstream applications cover construction machinery, industrial automation, automotive, aerospace, medical equipment, energy systems, data centers, and semiconductor equipment, with representative users including Caterpillar, Komatsu,

Tesla, CATL, NVIDIA, Dell Technologies, Siemens, and GE HealthCare. Overall, fluid connectors serve as key connection components in fluid transfer systems, and their performance directly affects equipment safety, sealing reliability, maintenance efficiency, and system stability.

The fluid connector market is experiencing steady growth, with traditional demand coming from industrial automation, construction machinery, automotive, energy equipment, and medical devices, while emerging demand is increasingly driven by data center liquid cooling, electric vehicles, energy storage, semiconductor equipment, and advanced manufacturing. As equipment becomes more compact, higher-pressure, modular, and easier to maintain, demand continues to rise for low-leakage, high-pressure, corrosion-resistant, long-life, and quick-disconnect products. Future development is expected to focus on high-reliability materials, integrated designs, smart monitoring, and customized solutions. However, fluctuations in raw material prices, long customer qualification cycles, strong competition from international brands, and pricing pressure in standardized products remain key challenges for the industry.

This report studies the global Fluid Connector production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Fluid Connector total production and demand, 2021-2032, (K Units)

Global Fluid Connector total production value, 2021-2032, (USD Million)

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

Global Fluid Connector consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Fluid Connector domestic production, consumption, key domestic manufacturers and share

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

Global Fluid Connector production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Fluid Connector production by Application, production, value, CAGR, 2021-2032,

(USD Million) & (K Units)

This report profiles key players in the global Fluid Connector 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 CPC, Staubli, Parker Hannifin, Eaton, Danfoss, CEJN, SMC, Festo, Amphenol, Koolance, 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 Connector 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 Fluid Connector Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Fluid Connector Market, Segmentation by Type:

Liquid Connector

Gas Connector

Global Fluid Connector Market, Segmentation by Structure:

Blind Mate Couplings

UQD

Dry-Break

Others

Global Fluid Connector Market, Segmentation by Port Size:

1/8'

1/4'

3/8'

1/2'

5/8'

3/4'

1'

Others

Global Fluid Connector Market, Segmentation by Application:

Automobile Industrial

Plastic Industrial

Information Technology

Railway Industrial

Petrochemical Industrial

Food Industrial

Pharmaceutical Industrial

Others

Companies Profiled:

CPC

Staubli

Parker Hannifin

Eaton

Danfoss

CEJN

SMC

Festo

Amphenol

Koolance

Swagelok

JONHON

Envicool

General Connectivity System

Yonggui Electric

Qiangrui Technology

Netonx

Beisit

Veseconn

Renhotec

Key Questions Answered:

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

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