

Global Blind-Mate Fluid Connectors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Blind-Mate Fluid Connectors market size is expected to reach \$ 906 million by 2032, rising at a market growth of 14.0% CAGR during the forecast period (2026-2032).

In 2025, global Blind-Mate Fluid Connectors production reached approximately 4.38 million units, with an average global market price of around US\$80 per unit.

Blind-Mate Fluid Connectors are specialized fluid connection devices designed to achieve automatic alignment, quick connection, and reliable sealing when direct visual access to the mating interface is not available. These connectors typically incorporate floating alignment mechanisms, guiding structures, and self-sealing valve designs, allowing fluid channels to connect automatically during module insertion while minimizing leakage during disconnection. Blind-mate fluid connectors are widely used in liquid-cooled data center cabinets, AI servers, energy storage systems, battery swapping systems, aerospace equipment, defense applications, and industrial automation platforms where modularity, rapid maintenance, and high reliability are required. They have become critical components in advanced fluid transfer systems.

The upstream segment of the blind-mate fluid connector industry includes suppliers of stainless steel, copper alloys, aluminum alloys, engineering plastics, high-performance seals, springs, and precision machined components. Representative suppliers include DuPont, Saint-Gobain, Outokumpu, and Parker Hannifin. The midstream sector consists of fluid connector manufacturers such as Staubli, CPC, Eaton, and Danfoss.

Downstream applications mainly include liquid-cooled data centers, AI servers, energy storage systems, aerospace equipment, and industrial automation systems, with companies such as NVIDIA, Dell Technologies, Hewlett Packard Enterprise, and CATL

representing key application sectors.

Blind-mate fluid connectors represent one of the faster-growing segments within the fluid connector market, driven primarily by the expansion of liquid-cooled data centers, AI servers, energy storage systems, and modular equipment platforms. As system modularity and maintenance efficiency become increasingly important, conventional manual connection methods are gradually being replaced by blind-mate connection solutions. Future development is expected to focus on higher integration density, greater flow capacity, leak-free performance, miniaturization, and intelligent monitoring capabilities. At the same time, high precision manufacturing requirements, lengthy validation cycles, and stringent customer qualification standards remain significant barriers to entry and expansion.

This report studies the global Blind-Mate Fluid Connectors production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Blind-Mate Fluid Connectors total production and demand, 2021-2032, (K Units)

Global Blind-Mate Fluid Connectors total production value, 2021-2032, (USD Million)

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

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

U.S. VS China: Blind-Mate Fluid Connectors domestic production, consumption, key domestic manufacturers and share

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

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

Global Blind-Mate Fluid Connectors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Blind-Mate Fluid Connectors 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 Blind-Mate Fluid Connectors 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 Blind-Mate Fluid Connectors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Blind-Mate Fluid Connectors Market, Segmentation by Type:

Single Passage

Dual Passage

Multi-Passage

Global Blind-Mate Fluid Connectors Market, Segmentation by Material:

Brass

Stainless Steel

Aluminum Alloy

Others

Global Blind-Mate Fluid Connectors Market, Segmentation by Port Size:

1/8'

1/4'

3/8'

1/2'

5/8'

3/4'

1'

Others

Global Blind-Mate Fluid Connectors Market, Segmentation by Application:

Data Centers

New Energy Vehicles

AI Servers

Energy Storage

Aerospace

Industrial Automation

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 Blind-Mate Fluid Connectors market?
2. What is the demand of the global Blind-Mate Fluid Connectors market?
3. What is the year over year growth of the global Blind-Mate Fluid Connectors market?
4. What is the production and production value of the global Blind-Mate Fluid Connectors market?
5. Who are the key producers in the global Blind-Mate Fluid Connectors market?
6. What are the growth factors driving the market demand?

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