

# Aseptic Connectors & Welders Market To Reach \$3.96 Billion By 2029 – New Report From The Business Research Company

*Aseptic Connectors & Welders Market To Reach \$3.96 Billion By 2029 – New Report From The Business Research Company*

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How Much Is The Aseptic Connectors And Welders Market Worth?

The market for aseptic connectors and welders has expanded swiftly in the past few years. Its size is expected to expand from \$1.72 billion in 2024 to \$2.04 billion in 2025, indicating a compound annual growth rate (CAGR) of 18.3%. The growth seen in the historic period can be traced back to the growing demand for uncontaminated fluid transfer, increasing adoption of single-use technology, heightened awareness about product safety, a strengthened regulatory emphasis on aseptic processing, as well as a surge in the production of biologics and vaccines.

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It will grow to \$3.96 billion in 2029 at a compound annual growth rate (CAGR) of 18.1%.”

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In the upcoming years, the aseptic connectors and welders market is forecasted to experience significant growth, expected to reach \$3.96 billion in 2029 in a compound annual growth rate (CAGR) of 18.1%. The predicted progression during this period is due to the expansion of the biologics pipeline, enlarged biopharma production facilities, increasingly high demands for versatile production systems, amplified investment in cell and gene therapy, a trend towards utilizing single-use systems in manufacturing, and a rise in the delegation of production to Contract Manufacturing Organisations (CMOs). Looking ahead, the forecasted period is marked by key trends, such as the development of single-use aseptic technologies, advancements in the design of connectors and welders to achieve high throughput, incorporation of automation and

robotics into aseptic procedures, utilization of advanced materials to improve sealing and safety, and innovations in compact and modular aseptic systems, as well as the employment of smart sensors for process validation.

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### What Are The Factors Driving The Aseptic Connectors And Welders Market?

The aseptic connectors and welders market is set to receive a boost by the escalating investments in the biomanufacturing sector. Biomanufacturing involves the creation of biological products, employing entities such as living cells and organisms. The increasing global healthcare needs and the demand for highly specialized production processes for complex therapies known as biologics account for the sector's growth. Aseptic connectors and welders play a crucial role in this sector, ensuring sterile fluid transfers in closed systems, minimizing contamination and guaranteeing safety during critical production stages. In line with this, the signing of the Bioeconomy Executive Order in 2022 has seen U.S. federal investments in biomanufacturing rise over time, from \$2.7 billion to more than \$3.5 billion in 2024, as reported by the White House Office of Science and Technology Policy. As a result, the aseptic connectors and welders market is growing due to increasing biomanufacturing sector investments. Additionally, enhanced immunization efforts globally due to pandemic readiness are pushing the market forward. Vaccine production capacity, a measure of the maximum quantity of vaccines a facility or group of facilities can generate, factored in monthly or yearly doses, is on the rise. This uptick is attributable to the need for swift responses to future disease outbreaks and ensuring global vaccine availability. Aseptic connectors and welders play a key role in bolstering vaccine production capacity by enabling sterile, safe fluid transfers during manufacturing, reducing the risk of contamination and ensuring a steady supply of high-quality vaccines. Presented in a 2022 report by Gavi, the Vaccine Alliance, a Switzerland-based international organization, it is estimated that African vaccine production could be valued between \$2.8 billion and \$5.6 billion by 2040, anticipating a 60-100% demand increase from a baseline of 1.3 billion doses. Consequently, the growing capacity in vaccine production serves as a driving factor for the aseptic connectors and welders market.

### Who Are The Major Players In The Aseptic Connectors And Welders Market?

Major players in the Aseptic Connectors And Welders Global Market Report 2025 include:

- Saint-Gobain S.A.
- Thermo Fisher Scientific Inc.
- Merck KGaA
- GE Healthcare Technologies Inc.
- Cytiva
- Sartorius AG
- Nordson Corporation
- Repligen Corporation

- Pall Corporation
- ChargePoint Technology Ltd.

## What Are The Key Trends And Market Opportunities In The Aseptic Connectors And Welders Sector?

Major firms in the aseptic connectors and welders industry are driving innovation by creating progressive technologies such as aseptic genderless large-diameter flow path connectors. These are geared towards enhancing the efficiency of high-volume sterile fluid movement in biopharmaceutical processes. The aim is to facilitate high-flow sterile transfers without the use of gendered fittings, thereby promoting single-use technologies (SUTs), and increasing flexibility in massive biomanufacturing operations. For example, April 2023 saw the Colder Products Company (CPC), a US-based business specialising in fluid handling solutions, unveil the AseptiQuik W Series Connectors. This connector comes with a 1-1/2-inch flow path, which can transfer hundreds of litres per minute. This substantially cuts down fluid transfer durations for procedures that involve up to 5,000-litre containers. Optimised for processes like media, buffer, and cell culture, it features hose barb termination sizes that vary from 1 inch to 1-1/2 inches along with a sanitary flange option. Its aseptic, genderless construction not only guarantees sterile, sealed connections but also simplifies operations by eliminating issues related to mating orientation. This marks a critical advancement in enhancing the scale and efficiency of contemporary biopharmaceutical production.

## Which Segment Accounted For The Largest Aseptic Connectors And Welders Market Share?

The aseptic connectors and welders market covered in this report is segmented –

- 1) By Product: Aseptic Connectors, Aseptic Welders
- 2) By Application: Upstream Bioprocessing, Downstream Bioprocessing, Harvest And Fill-finish Operations
- 3) By End-User: Biopharmaceutical And Pharmaceutical Companies, Original Equipment Manufacturers (OEMs), Contract Research Organizations (CROs) And Contract Manufacturing Organizations (CMOs), Academic And Research Institutes

### Subsegments:

- 1) By Aseptic Connectors: Single-Use Aseptic Connectors, Multi-Use Aseptic Connectors, Gendered Connectors, Genderless Connectors, Steam-In-Place Connectors, Tubing-To-Tubing Connectors, Container-To-Tubing Connectors
- 2) By Aseptic Welders: Automatic Tube Welders, Manual Tube Welders, Benchtop Aseptic Welders, Portable Aseptic Welders, Large Bore Tube Welders

View the full aseptic connectors and welders market report:

<https://www.thebusinessresearchcompany.com/report/aseptic-connectors-and-welders-global-market-report>

## What Are The Regional Trends In The Aseptic Connectors And Welders Market?

In 2024, North America was the dominant region in the global aseptic connectors and welders market with Asia-Pacific predicted to experience the swiftest growth in the coming years. The report encompassed regional markets such as Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, and Africa.

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