

# **Global Single-use Bioprocessing Connectors Market Size Study, By Product (Aseptic Connectors, Conventional Connectors), By Application (Upstream Bioprocessing, Downstream Bioprocessing, Fill-finish Operations), By End Use (Biopharmaceutical & Pharmaceutical Companies, CROs & CMOs, Academic & Research Institutes), and Regional Forecasts 2022-2032**

<https://marketpublishers.com/r/G84876A6A405EN.html>

Date: March 2025

Pages: 285

Price: US\$ 3,750.00 (Single User License)

ID: G84876A6A405EN

## **Abstracts**

The global single-use bioprocessing connectors market is valued at approximately USD 1.09 billion in 2023 and is projected to grow at a CAGR of 15.8% over the forecast period 2024-2032. The rising adoption of single-use systems (SUS) in biopharmaceutical manufacturing, the increasing demand for biologics and biosimilars, and technological advancements in aseptic processing are the primary drivers of this market's expansion. The transition from traditional stainless-steel bioprocessing systems to single-use technologies (SUT) has revolutionized biopharmaceutical manufacturing by improving flexibility, reducing contamination risks, and enhancing scalability.

As the biopharmaceutical sector continues to witness exponential growth, the demand for sterile and contamination-free fluid handling has surged. The increased production of monoclonal antibodies (mAbs), vaccines, and cell & gene therapies has necessitated the adoption of single-use bioprocessing connectors. These components play a crucial role in sterile fluid transfer, ensuring seamless integration into upstream and downstream processing while minimizing the risk of cross-contamination. For instance, companies such as Merck KGaA and Sartorius AG have introduced genderless aseptic

connectors to simplify fluid transfer operations, improving operational efficiency and regulatory compliance.

Moreover, the COVID-19 pandemic further accelerated the adoption of single-use technologies, as biopharmaceutical manufacturers required rapid scale-up capabilities to meet global vaccine demand. The need for high-speed manufacturing of biologics led to increased reliance on single-use bioprocessing connectors, reducing cleaning and sterilization requirements associated with stainless steel systems. Companies such as Thermo Fisher Scientific and Danaher expanded their manufacturing capacities to support the surge in demand for SUS-based vaccine production.

Regionally, North America dominates the single-use bioprocessing connectors market, accounting for the largest revenue share in 2023. The presence of major biopharmaceutical manufacturers, strong regulatory frameworks, and high R&D investments are key growth drivers in the region. Asia-Pacific (APAC), on the other hand, is anticipated to experience the fastest CAGR during the forecast period, driven by increasing investments in biologics, rising biomanufacturing infrastructure, and favorable government initiatives in countries such as China, India, and Japan.

Major Market Players Included in this Report:

Sartorius AG

Merck KGaA

Danaher Corporation

Saint-Gobain

Colder Products Company (Dover Corporation)

Liquidyne Process Technologies, Inc.

Foxx Life Sciences

Watson-Marlow Fluid Technology Solutions

Thermo Fisher Scientific

Avantor, Inc.

Cytiva (a Danaher company)

Parker Hannifin Corporation

Corning Incorporated

Repligen Corporation

Meissner Filtration Products

The Detailed Segments and Sub-Segment of the Market are Explained Below:

By Product:

Aseptic Connectors

Conventional Connectors

By Application:

Upstream Bioprocessing

Downstream Bioprocessing

Fill-finish Operations

By End Use:

Biopharmaceutical & Pharmaceutical Companies

CROs & CMOs

Academic & Research Institutes

## By Region:

### North America

U.S.

Canada

Mexico

### Europe

Germany

UK

France

Italy

Spain

Denmark

Sweden

Norway

### Asia Pacific

China

India

Japan

South Korea

Australia

Thailand

Latin America

Brazil

Argentina

Middle East & Africa (MEA)

South Africa

Saudi Arabia

UAE

Kuwait

Years Considered for the Study:

Historical Year – 2022

Base Year – 2023

Forecast Period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional-level analysis for each market segment.

Detailed analysis of geographical landscape with country-level analysis.

Competitive landscape with company profiles, revenue analysis, and key business strategies.

Industry insights into market trends, regulatory landscape, and technological advancements.

Demand-side and supply-side analysis to provide a holistic market overview.

## Contents

### **CHAPTER 1. GLOBAL SINGLE-USE BIOPROCESSING CONNECTORS MARKET EXECUTIVE SUMMARY**

- 1.1. Global Single-use Bioprocessing Connectors Market Size & Forecast (2022-2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
  - 1.3.1. By Product
  - 1.3.2. By Application
  - 1.3.3. By End-use
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendations & Conclusion

### **CHAPTER 2. GLOBAL SINGLE-USE BIOPROCESSING CONNECTORS MARKET DEFINITION AND RESEARCH ASSUMPTIONS**

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
  - 2.3.1. Inclusion & Exclusion
  - 2.3.2. Limitations
  - 2.3.3. Supply Side Analysis
    - 2.3.3.1. Availability
    - 2.3.3.2. Infrastructure
    - 2.3.3.3. Regulatory Environment
    - 2.3.3.4. Market Competition
    - 2.3.3.5. Economic Viability (Consumer's Perspective)
  - 2.3.4. Demand Side Analysis
    - 2.3.4.1. Regulatory Frameworks
    - 2.3.4.2. Technological Advancements
    - 2.3.4.3. Environmental Considerations
    - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

### **CHAPTER 3. GLOBAL SINGLE-USE BIOPROCESSING CONNECTORS MARKET**

*Global Single-use Bioprocessing Connectors Market Size Study, By Product (Aseptic Connectors, Conventional Con...*

## **DYNAMICS**

### **3.1. Market Drivers**

3.1.1. Increasing adoption of single-use bioprocessing systems in biopharmaceutical manufacturing

3.1.2. Rising production of biologics and biosimilars driving demand for single-use connectors

3.1.3. Advancements in aseptic processing and automated fluid management systems

### **3.2. Market Challenges**

3.2.1. High costs associated with single-use bioprocessing connectors compared to conventional solutions

3.2.2. Concerns over extractables, leachables, and regulatory compliance issues

### **3.3. Market Opportunities**

3.3.1. Expansion of biopharmaceutical manufacturing facilities and contract manufacturing organizations

3.3.2. Rising adoption of cell & gene therapies and personalized medicine

## **CHAPTER 4. GLOBAL SINGLE-USE BIOPROCESSING CONNECTORS MARKET INDUSTRY ANALYSIS**

### **4.1. Porter's Five Forces Model**

4.1.1. Bargaining Power of Suppliers

4.1.2. Bargaining Power of Buyers

4.1.3. Threat of New Entrants

4.1.4. Threat of Substitutes

4.1.5. Competitive Rivalry

4.1.6. Futuristic Approach to Porter's Five Forces Model

4.1.7. Porter's Five Forces Impact Analysis

### **4.2. PESTEL Analysis**

4.2.1. Political

4.2.2. Economic

4.2.3. Social

4.2.4. Technological

4.2.5. Environmental

4.2.6. Legal

### **4.3. Top Investment Opportunities**

### **4.4. Top Winning Strategies**

### **4.5. Disruptive Trends**

### **4.6. Industry Expert Perspectives**

#### 4.7. Analyst Recommendations & Conclusion

### **CHAPTER 5. GLOBAL SINGLE-USE BIOPROCESSING CONNECTORS MARKET SIZE & FORECASTS BY PRODUCT 2022-2032**

#### 5.1. Segment Dashboard

#### 5.2. Global Single-use Bioprocessing Connectors Market: Product Revenue Trend Analysis, 2022 & 2032 (USD Million)

##### 5.2.1. Aseptic Connectors

##### 5.2.2. Conventional Connectors

### **CHAPTER 6. GLOBAL SINGLE-USE BIOPROCESSING CONNECTORS MARKET SIZE & FORECASTS BY APPLICATION 2022-2032**

#### 6.1. Segment Dashboard

#### 6.2. Global Single-use Bioprocessing Connectors Market: Application Revenue Trend Analysis, 2022 & 2032 (USD Million)

##### 6.2.1. Upstream Bioprocessing

##### 6.2.2. Downstream Bioprocessing

##### 6.2.3. Fill-finish Operations

### **CHAPTER 7. GLOBAL SINGLE-USE BIOPROCESSING CONNECTORS MARKET SIZE & FORECASTS BY END-USE 2022-2032**

#### 7.1. Segment Dashboard

#### 7.2. Global Single-use Bioprocessing Connectors Market: End-use Revenue Trend Analysis, 2022 & 2032 (USD Million)

##### 7.2.1. Biopharmaceutical & Pharmaceutical Companies

##### 7.2.2. CROs & CMOs

##### 7.2.3. Academic & Research Institutes

### **CHAPTER 8. GLOBAL SINGLE-USE BIOPROCESSING CONNECTORS MARKET SIZE & FORECASTS BY REGION 2022-2032**

#### 8.1. North America Single-use Bioprocessing Connectors Market

##### 8.1.1. U.S. Single-use Bioprocessing Connectors Market

##### 8.1.2. Canada Single-use Bioprocessing Connectors Market

##### 8.1.3. Mexico Single-use Bioprocessing Connectors Market

#### 8.2. Europe Single-use Bioprocessing Connectors Market

- 8.2.1. Germany Single-use Bioprocessing Connectors Market
- 8.2.2. UK Single-use Bioprocessing Connectors Market
- 8.2.3. France Single-use Bioprocessing Connectors Market
- 8.2.4. Italy Single-use Bioprocessing Connectors Market
- 8.2.5. Spain Single-use Bioprocessing Connectors Market
- 8.2.6. Denmark Single-use Bioprocessing Connectors Market
- 8.2.7. Sweden Single-use Bioprocessing Connectors Market
- 8.2.8. Norway Single-use Bioprocessing Connectors Market
- 8.3. Asia-Pacific Single-use Bioprocessing Connectors Market
  - 8.3.1. China Single-use Bioprocessing Connectors Market
  - 8.3.2. Japan Single-use Bioprocessing Connectors Market
  - 8.3.3. India Single-use Bioprocessing Connectors Market
  - 8.3.4. South Korea Single-use Bioprocessing Connectors Market
  - 8.3.5. Australia Single-use Bioprocessing Connectors Market
  - 8.3.6. Thailand Single-use Bioprocessing Connectors Market
- 8.4. Latin America Single-use Bioprocessing Connectors Market
  - 8.4.1. Brazil Single-use Bioprocessing Connectors Market
  - 8.4.2. Argentina Single-use Bioprocessing Connectors Market
- 8.5. Middle East & Africa Single-use Bioprocessing Connectors Market
  - 8.5.1. South Africa Single-use Bioprocessing Connectors Market
  - 8.5.2. Saudi Arabia Single-use Bioprocessing Connectors Market
  - 8.5.3. UAE Single-use Bioprocessing Connectors Market
  - 8.5.4. Kuwait Single-use Bioprocessing Connectors Market

## **CHAPTER 9. COMPETITIVE INTELLIGENCE**

- 9.1. Key Company SWOT Analysis
  - 9.1.1. Sartorius AG
  - 9.1.2. Merck KGaA
  - 9.1.3. Danaher
- 9.2. Top Market Strategies
- 9.3. Company Profiles
  - 9.3.1. Saint-Gobain
  - 9.3.2. Colder Products Company (Dover Corporation)
  - 9.3.3. Liquidyne Process Technologies, Inc.
  - 9.3.4. Foxx Life Sciences
  - 9.3.5. Watson-Marlow Fluid Technology Solutions

## **CHAPTER 10. RESEARCH PROCESS**

## 10.1. Research Process

10.1.1. Data Mining

10.1.2. Analysis

10.1.3. Market Estimation

10.1.4. Validation

10.1.5. Publishing

## 10.2. Research Attributes

## List Of Tables

### LIST OF TABLES

- TABLE 1. Global Single-use Bioprocessing Connectors Market, Report Scope
- TABLE 2. Global Single-use Bioprocessing Connectors Market Estimates & Forecasts by Region, 2022-2032 (USD Million)
- TABLE 3. Global Single-use Bioprocessing Connectors Market Estimates & Forecasts by Product, 2022-2032 (USD Million)
- TABLE 4. Global Single-use Bioprocessing Connectors Market Estimates & Forecasts by Application, 2022-2032 (USD Million)
- TABLE 5. Global Single-use Bioprocessing Connectors Market Estimates & Forecasts by End-use, 2022-2032 (USD Million)
- TABLE 6. North America Single-use Bioprocessing Connectors Market Estimates & Forecasts, 2022-2032 (USD Million)
- TABLE 7. Europe Single-use Bioprocessing Connectors Market Estimates & Forecasts, 2022-2032 (USD Million)
- TABLE 8. Asia-Pacific Single-use Bioprocessing Connectors Market Estimates & Forecasts, 2022-2032 (USD Million)
- TABLE 9. Latin America Single-use Bioprocessing Connectors Market Estimates & Forecasts, 2022-2032 (USD Million)
- TABLE 10. Middle East & Africa Single-use Bioprocessing Connectors Market Estimates & Forecasts, 2022-2032 (USD Million)
- TABLE 11. U.S. Single-use Bioprocessing Connectors Market Estimates & Forecasts, 2022-2032 (USD Million)
- TABLE 12. Germany Single-use Bioprocessing Connectors Market Estimates & Forecasts, 2022-2032 (USD Million)
- TABLE 13. China Single-use Bioprocessing Connectors Market Estimates & Forecasts, 2022-2032 (USD Million)
- TABLE 14. Key Company Market Share Analysis, 2023
- TABLE 15. Sartorius AG - Revenue Analysis & Business Segment Overview
- TABLE 16. Merck KGaA - Revenue Analysis & Business Segment Overview
- TABLE 17. Danaher - Revenue Analysis & Business Segment Overview
- TABLE 18. Global Single-use Bioprocessing Connectors Market - Key Growth Indicators
- TABLE 19. Global Single-use Bioprocessing Connectors Market - Regulatory Landscape Overview
- TABLE 20. Competitive Landscape - Key Market Strategies Adopted by Players

## List Of Figures

### LIST OF FIGURES

FIG 1. Global Single-use Bioprocessing Connectors Market, Research Methodology

FIG 2. Global Single-use Bioprocessing Connectors Market, Market Estimation Techniques

FIG 3. Global Market Size Estimates & Forecast Methods

FIG 4. Global Single-use Bioprocessing Connectors Market, Key Trends, 2023

FIG 5. Global Single-use Bioprocessing Connectors Market, Growth Prospects, 2022-2032

FIG 6. Global Single-use Bioprocessing Connectors Market, Porter's Five Forces Analysis

FIG 7. Global Single-use Bioprocessing Connectors Market, PESTEL Analysis

FIG 8. Global Single-use Bioprocessing Connectors Market, Value Chain Analysis

FIG 9. Global Single-use Bioprocessing Connectors Market by Product, 2022 & 2032 (USD Million)

FIG 10. Global Single-use Bioprocessing Connectors Market by Application, 2022 & 2032 (USD Million)

FIG 11. Global Single-use Bioprocessing Connectors Market by End-use, 2022 & 2032 (USD Million)

FIG 12. Global Single-use Bioprocessing Connectors Market, Regional Snapshot, 2022 & 2032

FIG 13. North America Single-use Bioprocessing Connectors Market, 2022 & 2032 (USD Million)

FIG 14. Europe Single-use Bioprocessing Connectors Market, 2022 & 2032 (USD Million)

FIG 15. Asia-Pacific Single-use Bioprocessing Connectors Market, 2022 & 2032 (USD Million)

FIG 16. Latin America Single-use Bioprocessing Connectors Market, 2022 & 2032 (USD Million)

FIG 17. Middle East & Africa Single-use Bioprocessing Connectors Market, 2022 & 2032 (USD Million)

FIG 18. Competitive Landscape - Company Market Share Analysis (2023)

FIG 19. Sartorius AG - Revenue Breakdown by Business Segments

FIG 20. Merck KGaA - Revenue Breakdown by Business Segments

## I would like to order

Product name: Global Single-use Bioprocessing Connectors Market Size Study, By Product (Aseptic Connectors, Conventional Connectors), By Application (Upstream Bioprocessing, Downstream Bioprocessing, Fill-finish Operations), By End Use (Biopharmaceutical & Pharmaceutical Companies, CROs & CMOs, Academic & Research Institutes), and Regional Forecasts 2022-2032

Product link: <https://marketpublishers.com/r/G84876A6A405EN.html>

Price: US\$ 3,750.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G84876A6A405EN.html>