

FDA Standard Double Heads Bag In Box Aseptic Filling Machine: Ensuring Safety and Sterility in Liquid Packaging

XIAN, SHAANXI, CHINA, November 8, 2025 /EINPresswire.com/ -- The global liquid food and beverage industry is facing growing demands for sterile, safe, and high-efficiency packaging solutions. As manufacturers aim to extend product shelf life and minimize dependence on refrigerated logistics, aseptic filling technology has evolved from an optional feature to an essential process requirement. Xi'an Shibo Fluid Technology Co., Ltd. (SBFT), with over fifteen years of technical experience, has become one of [China's leading manufacturers of bag-in-box \(BIB\) filling machines](#). The company has developed the FDA Standard Double-Head Bag-in-Box Aseptic Filler, designed to meet the highest international sanitary and operational standards.



This machine features a dual-head configuration that enhances throughput while maintaining sterility, ensuring product integrity for sensitive liquid foods such as milk, liquid egg, fruit concentrates, and non-alcoholic beverages. Its design follows the hygienic principles set forth by the U.S. Food and Drug Administration (FDA) for food contact equipment, supporting safe and efficient global food distribution.

I. Industry Trends: Aseptic Filling and Global Food Safety Standards

The liquid packaging sector is defined by three converging developments: a stronger focus on food safety, growing expectations for extended shelf life, and rapid advancement in automation. Together, these trends are driving demand for reliable aseptic filling technology.

A. Growth of Aseptic Packaging

Aseptic packaging allows perishable products—such as dairy, juice, and liquid egg—to remain stable without refrigeration, offering major logistical advantages. This process relies on precise sterilization and contamination-free filling. Equipment must ensure sterilization of both the packaging material and contact surfaces, maintain sterile conditions during filling, and prevent recontamination after sealing. SBFT's aseptic filling equipment, including the ASP series, has been developed to meet these operational requirements.

B. Compliance with Global Standards

Manufacturers increasingly require machines that align with international standards, including FDA sanitary design guidelines and CE certification for mechanical and electrical safety. Equipment built to these specifications provides greater assurance of quality and simplifies global trade compliance. The FDA Standard Double-Head Aseptic Filler reflects this approach by incorporating hygienic design principles, validated cleaning procedures, and compatible materials for food contact.

C. Efficiency Through Dual-Head Automation

Automation remains central to improving production efficiency in the liquid food sector. The dual-head design of SBFT's aseptic filler effectively doubles output capacity compared to single-head systems, supporting consistent performance and minimizing downtime. This enables producers to increase throughput while maintaining product consistency and safety.

D. Adaptability Across Product Types

The versatility of bag-in-box packaging continues to expand beyond its traditional use in wine and juice. It is now widely adopted for liquid egg, dairy, and other high-value liquid foods. The filler's capability to handle a range of viscosities and volumes—from small consumer bags to industrial containers up to 1000 liters—makes it suitable for multiple applications within modern food processing facilities.

II. Quality Assurance: Certification, Compliance, and International Engagement

SBFT's commitment to meeting global quality benchmarks is evident through its international certifications and participation in major industry exhibitions.

A. CE Certification: Ensuring Safety and Reliability

Since achieving CE certification in 2013, SBFT has ensured that its equipment meets European Economic Area (EEA) requirements for safety, health, and environmental protection. This certification confirms the mechanical and electrical reliability of its aseptic systems and facilitates easier import compliance for customers across Europe.

B. FDA Design Compliance: Hygienic Engineering Standards

While the FDA does not issue certificates for equipment, adherence to FDA design principles demonstrates a commitment to hygiene and safety. All product-contact components of SBFT's

aseptic fillers are made from non-toxic, corrosion-resistant, and easy-to-clean materials. The equipment design eliminates dead corners and allows for efficient Clean-In-Place (CIP) and Steam-In-Place (SIP) processes, minimizing the risk of microbial growth and ensuring sterility during operation.

C. Global Exhibition Participation: Demonstrating Technological Strength

SBFT regularly presents its aseptic filling technology at major events such as WINE TECH, PROPAK, and GULFOOD Machinery. At WINE TECH, the company demonstrates its precision filling technology, which is applicable not only to wine and juice but also to a wide range of liquid foods requiring careful handling and microbial control. Participation in these exhibitions enhances SBFT's collaboration with international clients and strengthens its engagement with global industry developments.

III. Technological Focus and Application Range

SBFT's success is based on specialization, technical innovation, and attention to detail, reflecting its operational philosophy of continuous improvement and focused development.

A. Expertise and Development

With fifteen years of research and development experience, SBFT has concentrated its efforts on aseptic bag-in-box (BIB) and bag-in-drum (BID) systems. This technical focus supports the creation of reliable equipment that meets the precise needs of liquid food producers operating under strict hygiene regulations.

B. Product Line and System Scalability

SBFT's ASP series—comprising the ASP100, ASP100AUTO, ASP200, and ASP300—provides a full range of aseptic filling solutions for both small-scale and industrial production. The equipment accommodates bag sizes from 2 to 1000 liters, offering flexibility for different production capacities and product types.

C. Wide Range of Applications

The company's equipment is used in diverse sectors:

Food and Beverage: milk, liquid egg, coffee, coconut milk, juice, and ice cream mix

Industrial Liquids: edible oils, chemical additives, pesticides, and liquid fertilizers

This broad application base demonstrates the system's adaptability to various product viscosities and operational environments.

D. Customer-Oriented Design Philosophy

SBFT prioritizes equipment reliability, ease of maintenance, and production efficiency. Each machine is designed to meet specific client requirements while maintaining a balance between performance and cost-effectiveness. This approach supports long-term production stability and

ensures compliance with international quality standards.

Conclusion

In an era where food safety, quality assurance, and efficiency are paramount, aseptic filling technology has become an indispensable part of liquid food packaging. SBFT's FDA Standard Double-Head Bag-in-Box Aseptic Filler combines hygienic design, automation efficiency, and international certification to support safe, large-scale liquid packaging. Through ongoing participation in global exhibitions and adherence to rigorous regulatory frameworks, SBFT continues to contribute to the advancement of reliable, standardized, and sustainable aseptic processing technologies worldwide.

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