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Applitech

Aseptic Sampling System



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AppliAsep Aseptic Sampling System

The AppliAsep aseptic sampling system is primarily designed for aseptic sampling from stainless steel reactors during the production or storage of biopharmaceutical products. Its design concept enables sterile collection of multiple samples through a single connection point, minimizing the risk of cross-contamination and ensuring the overall safety of the sampling process.

Features

- Single-use, fully enclosed pre-assembled system
- Pre-sterilized for immediate use
- Customizable design options available
- Reusable Base
- Dual anti-slip groove design for enhanced stability
- All parts that come into contact with the sample fluid are USP Class VI compliant
- Can be adapted to different sizes of sampling bags (can be customized)
- Double-layer PE bag packaging (optional vacuum and non-vacuum)

Applications

- Sampling analysis of critical parameters such as bioburden, sterility, and endotoxin levels.
- Process monitoring of key parameters, such as metabolites, nutrients, osmolarity, and pH levels

Insoluble Particle Test

Pull-out Force Test

Hanging Test

High and Low Temperature Storage Test

Aging Test

Simple and Efficient User Experience

Whether upgrading the sampling process in an existing workflow or designing a new sampling solution for a fresh process, the AppliAsep Aseptic Sampling System offers a variety of interfaces and sampling options. It seamlessly integrates with different process equipment while minimizing manual operations, ensuring a straightforward and user-friendly experience.

Precise and Safe Operation

With the AppliAsep Aseptic Sampling System, there is no need to connect to cleaning or sterilization pipelines. The system remains fully enclosed throughout the entire cultivation process, eliminating contact between the liquid and the external environment. This not only preserves the representativeness of the sample but also significantly reduces operational risks associated with sampling.

AppliAsep Aseptic Sampling System

Product Structure

Sampling Needle Slot

Locking Bolt

Press-down Handle

Support Base



AppliAsep Aseptic Sampling System

Step-by-step operation guide



01

Unscrew the bolt inside AppliAsep support press-down component and remove the base. Then insert the sterile sampling needle from the bottom of the sampling support into the main slot of the holder.



02

Rotate the sampling needle's tubing connection to the waiting slot, which is designed as a foolproof mechanism to prevent accidental operation when not in use.



03

Use sterile sampling needles to fill all the designated slots within the AppliAsep support.



04

Align the metal locking points and reinstall the AppliAsep base onto the sampling needle slot.



05

Screw back the bolt inside the support press-down component. Install the AppliAsep aseptic sampling support into the designated equipment port. Lock the sealing piece securely and carry out CIP or SIP along with the equipment.



06

Rotate the sampling needle to the sampling slot and press the handle to initiate sampling. For continuous sampling, place the needle in the lower sampling slot for sustained collection.



07

Once the sampling is complete, rotate the sampling needle back to the waiting slot. Use a sterile tubing disconnector to separate the sampling bag from the AppliAsep support base

Specification

AppliAsep Sampling System		
Sampling Bag		
Unit Volume	5ml-10L	
Temperature Range	-80°C-60°C	
Material	Liquid Contact Layer	Liquid Contact Layer
	Weldments	PE
	Sterile Needle Kit	Needle pad: platinum-cured silicone Bracket: PETG Sampling needle: 2mm 316L stainless steel Washer:SUS304
	Tubing	Platinum vulcanized silicone/medical grade thermoplastic rubber
	Tubing Connection	PP/PC/PE
Sterilization Method	γirradiation sterilization	
Sterility Grade	SAL=10-6	
Interface	Customized interface, which can be adapted to conventional types such as aseptic sampling port, CPC connector, and Luer interface	
USP Compliance	All parts that come into contact with liquids are USP CLASS VI compliant	
Integrity Test	All are integrity-tested before leaving the factory	
Assembly	Assembly is carried out in a grade C clean room that meets the requirements of GMP production system	

AppliAsep Sampling Base		
Material		
Material	Handle	stainless steel
	Bolt	stainless steel
	Stand	PEEK
	Base	316L stainless steel
	Resistance	Steam-in-place/off-line steam

Ordering Information

AppliAsep Sampling System				
Name	Number of Sampling Interfaces	Device Interface	Size (inch)	Item Number
AbioSample Ingold 2	2	Ingold	0.5"	ASMS-IG2
AbioSample Ingold 2-L52	2	Ingold	0.5"	ASMS-IG2L52
AbioSample Inline 1	1	TC	0.5"	ASMS-IL1
AbioSample TC5	5	TC	1.5"	ASMS-TC5
AbioSample TC9	9	TC	2"	ASMS-TC9
AppliAsep Fluid Management System				
Name	Type	Applicable Pipe Diameter		Item Number
AbioCutter M100	Manual Pipe Cutter	OD≤1/4"		ACS-M100
Haimore Monomer sampling unit				
Bag Specifications	Pipe Diameter (inch)	Sampling Interface	Interface Size (inch)	Item Number
50ml	1/8"-1/4"	sterile sampler	1/8"	SL0050-2I
100ml	1/8"-1/4"	sterile sampler	1/8"	SL0100-2N
250ml	1/8"-1/4"	sterile sampler	1/8"	SL0250-2E
Haimore Six-pack sampling unit				
Bag Specifications	Pipe Diameter (inch)	Sampling Interface	Interface Size (inch)	Item Number
50ml	1/8"-1/4"	Luer	1/8"	SL0050-6FE5
100ml	1/8"-1/4"	Luer	1/8"	SL0100-6DE5
250ml	1/8"-1/4"	Luer	1/8"	SL0250-6BE5
Note: The Haimore sampling units are individually customized				

