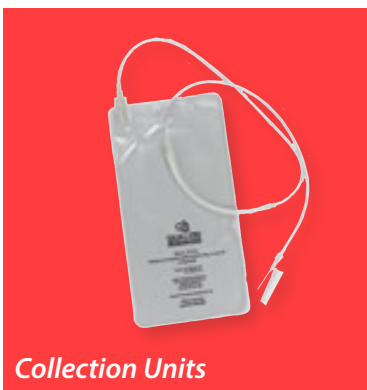


# QualiTru™ Product & Usage Guide

Aseptic Sampling Products to meet all your liquid sampling needs.



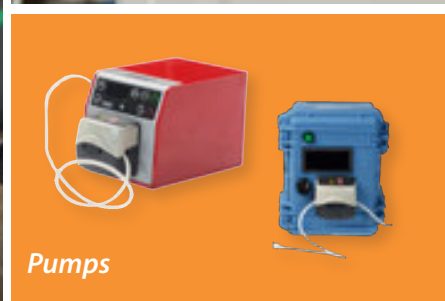
Ports



Collection Units



Septa



Pumps





# WELCOME TO QUALITRU SAMPLING SYSTEMS™



For forty years, QualiTru Sampling Systems has been the most trusted brand for aseptic liquid sampling.

The diversity of QualiTru Sampling Systems' products offer the food, dairy, beverage, and other industries the most dependable method of ensuring regulatory compliance and the highest level of quality assurance.

## TruStream Ports

316 stainless steel sanitary ports designed to work in a wide variety of locations including processing lines, silos, tanks, and trucks. They provide easy access for aseptic process monitoring of microbial contamination as well as line and tank sampling. TruStream sanitary ports can be customized to your specifications. Additional sizes and options are available by request.

**Stock #                      Size                      Unit**

### TruStream7 Sanitary Tank Port

109-3016                      --                      EA

### TruStream7 Sanitary Tri-Clamp Port

109-3997                      1.5"                      EA

109-3999                      2"                      EA

109-3995                      2.5"                      EA

109-3900                      3"                      EA

### TruStream7 Sanitary Recessed Ports

109-3032                      4" x 2" (1.875"D)                      EA

109-3046                      4" x 4" (4"D)                      EA

109-3018                      5.5" x 4" (4"D)                      EA

### TruStream7 Sanitary Inspection Tri-Clamp Elbow Port (Standard Long Radius)

109-3031                      1.5"                      EA

109-3022                      2"                      EA

### TruStream12 Sanitary Tri-Clamp Port

109-3028                      2"                      EA

109-3050                      2.5"                      EA

109-3051                      3"                      EA

### TruStream7, 7 Port Adjustable Tanker Port With Security Lid

109-4004                      --                      EA



**TruStream7 ports are designed for fluid, product lines, as well as tank or silo doors. TruStream12 ports can be used for viscous products and for inoculation.**

We offer a complete line of sterile, single-use collection units in a variety of volumes, making them ideal for your sampling needs. All collection units provide worry-free handling, storing and shipping solutions.

## TruStream Septa

Sterile septa are available in both 7 and 12 needle guide channels. Designed for samples to be drawn a single time from each channel—reducing the risk of cross-contamination. Each septa is made of high-quality, food grade materials and features a label that clearly indicates which channels have been used.

Stock #	Description	Max Temp	Unit
<b>TruStream7 Septa</b>			
109-3027	7-Port Sampling Septa	190°F	EA
109-3029	7-Port Sampling Septa (High Temp)	300°F	EA
<b>TruStream12 Septa</b>			
109-3042	12-Port Sampling Septa	250°F	EA
109-3049	12-Port Sampling Septa (High Temp)	300°F	EA



## Sampling Bag Assembly

Use to aseptically obtain a large sample volume or composite sample from the sample port. Sterile assembly includes, 18-gauge needle, tubing, and bag.

Stock #	Capacity	Unit
109-3250	250 mL	EA
109-3200	2 L	EA
109-3210	7 L	CA



### Flow Clamps

Use to regulate flow of bag being filled.

109-3998	--	EA
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## Sampling Kit

All-inclusive kit for everything you need to take your aseptic samples. Kit includes:

- (1) Aseptic Septum
- (1) Dust Cover
- (7) Needles (18-Gauge)
- (7) 60 cc Syringes
- (8) Alcohol Pads
- Instructions



Stock #	Unit
109-3035	KT



## Peristaltic Pumps

Ideal for drawing liquid samples into your TruMotion collection bag (sold separately). Easy to operate design helps ensure safe and efficient collection throughout the sampling process.

Stock #	Description	Unit
109-4000	Watson-Marlow 120 V Pump	EA
109-4001	Enclosure for Watson-Marlow Pump	EA
109-4002	QualiTru™ Portable 190 RPM Pump	EA

## TruMotion Sampling Assembly

Aseptically and efficiently collect and store a wide variety of samples when paired with all TruStream ports and septa. Compatible with the Watson-Marlow Peristaltic Pump and the QualiTru™ Portable Peristaltic Pump.

Stock #	Capacity	Packaging	Unit
109-3215	2 L	100/ca	CA







TRUSTREAM

## TruStream Dust Covers

Keep your septa free from dust or environmental residue.

Stock #	Description	Unit
109-3226	TruStream7	EA
109-3054	TruStream12	EA



## Wrenches

Use to tighten and loosen the port nut.

Stock #	Description	Unit
383-7530	11" Wrench, Used w/ TruStream7 Ports	EA
383-7531	12.75" Wrench, Used w/ TruStream12 Ports	EA



TRUSTREAM

## TruStream Stainless Nut

Replacement nut for the port system.

Stock #	Description	Unit
109-3010	TruStream7	EA
109-3994	TruStream12	EA

## TruDraw™ Single Samplers

Collect product samples and help prevent the risk of introducing contamination into the process. Designed to work with TruStream sanitary ports and sterile septa.



109-3240

Stock #	Vial Size	Sterile	Packaging	Unit
109-3240	2-oz	Yes	50/ca	CA
109-4003	2-oz	No	100/ca	CA

TRUDRAW  
STERILE

## Syringes

Individually packaged, sterile syringes. Needles sold separately.

Stock #	Size	Packaging	Unit
066-3832	30 cc	56/bx	BX
066-3654	50 cc	40/bx	BX
498-3176	60 cc	25/bx	BX



## Needles

Sterile, stainless steel needles have special packaging to protect tips and assure sterility. All are individually wrapped. 100/box.

Stock #	Gauge	Unit
716-3977	14	BX
066-3198	16	BX
066-3196	18	BX
763-3002	19	BX
066-3340	21	BX



*Note: Not recommended to use 14 gauge needles with 7-port septa, however, it can be used with 12-port septa with more viscous types of product.*

## Biohazard Sharps Disposal Container

Horizontal drop design with curved lid allows for one-handed disposal and maximum capacity to fill line. Locks for final disposal. Red transparent bin with white lid. 5-quart capacity.

Stock #	Unit
197-1086	EA

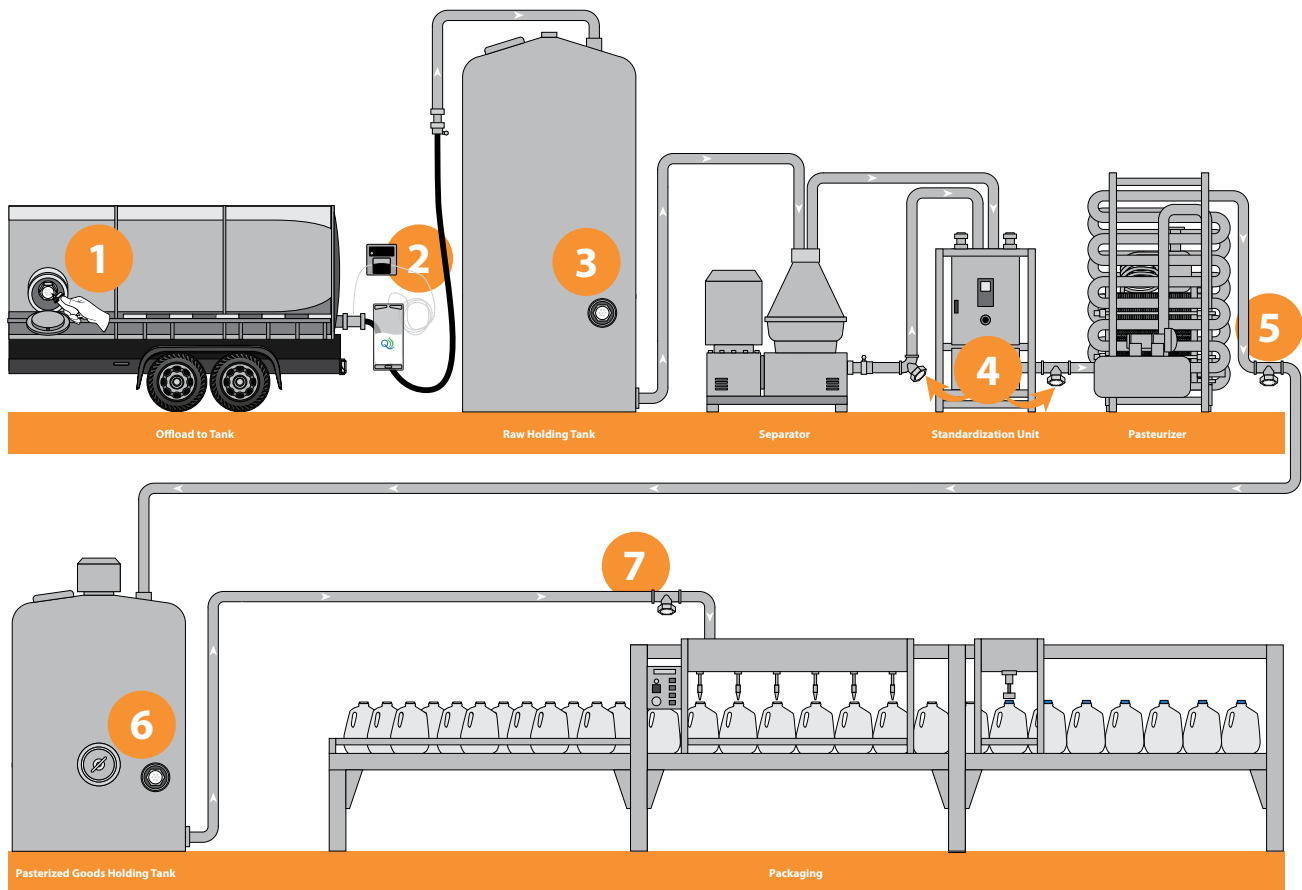


## Alcohol Wipes

BD 70% Isopropyl Alcohol pads measure 1" x 1.3", and are individually wrapped. Aids in the wiping of the septa prior to needle insertion. 100/box.

Stock #	Unit
066-3100	BX

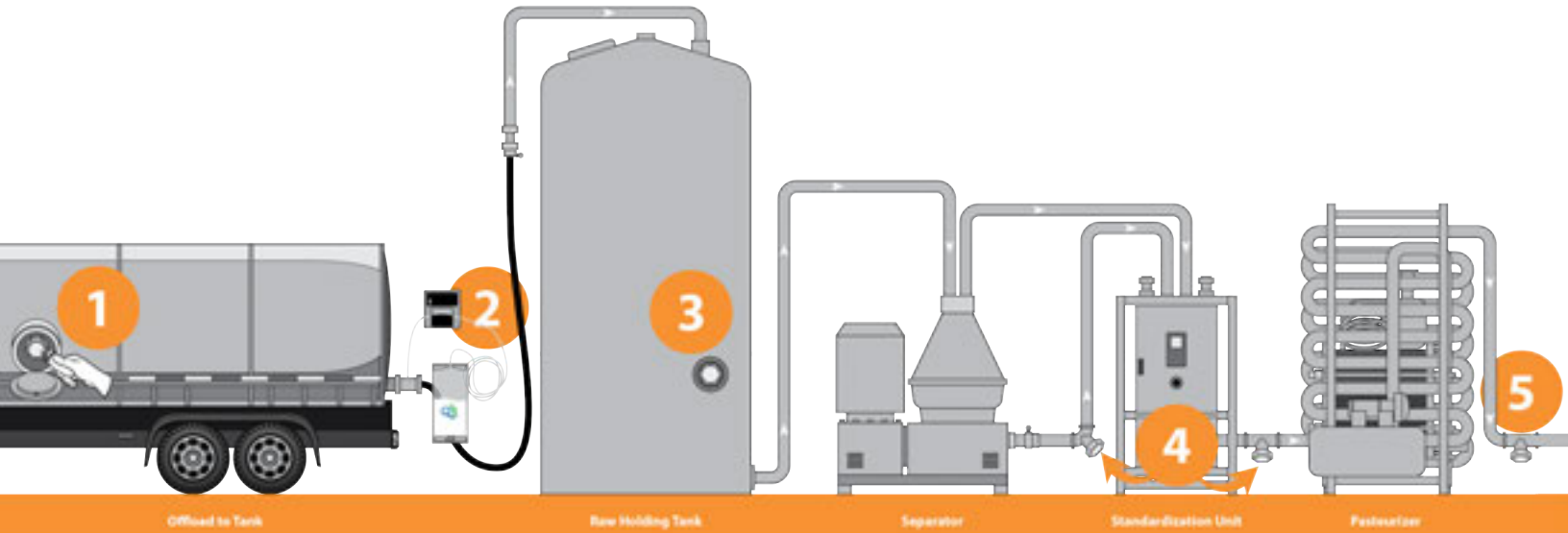




Install Sanitary Ports throughout the dairy processing plant to provide easy, aseptic sampling.

- 1 Milk Tanker Truck Sampling**  
Eliminate the need to climb to the top of the tanker truck to assure a safer physical sampling environment and improve operational efficiency. Install a Sanitary Recessed Port with Security Lid to pull an official Pasteurized Milk Ordinance (PMO) Appendix N (antibiotic) sample prior to entering the receiving bay.
- 2 Receiving Bay Sampling**  
Improve operational efficiency and reduce receiving bay congestion. Install a beveled seat TruStream Sanitary Port at the outlet valve on the tanker truck.
- 3 Raw Product Sampling**  
Collect a representative sample for regulatory or milk quality samples. Install a TruStream Sanitary Recessed Port in the raw receiving silo.
- 4 System Diagnostic**  
As part of the diagnostic function, system quality check, Clean in Place (CIP) cleanliness check, and overall milk quality samples, install a TruStream Sanitary Port at any location throughout your fluid path.
- 5 Post-Pasteurization Monitoring**  
Monitor post-pasteurization contamination and verify pasteurization effectiveness and efficiency. Install a TruStream Sanitary Port on the backside of the pasteurizer.
- 6 Collection Tank for Pasteurized Products**  
Collect samples for regulatory requirements or quality systems. Install a TruStream Sanitary Tank Port or Recessed Port on the exterior of the pasteurized tank or silo.
- 7 Filling System**  
Collect samples for regulatory requirements or to verify the sterility of the product just prior to packaging as well as verifying the lack of contaminants system-wide. Install a TruStream Sanitary Port just before the filler.





Install Sanitary Ports throughout the dairy cultured processing plant to provide easy, aseptic sampling.

### 1 Milk Tanker Truck Sampling

Eliminate the need to climb to the top of the tanker truck to assure a safer physical sampling environment and improve operational efficiency. Install a Sanitary Recessed Port with Security Lid to pull an official Pasteurized Milk Ordinance (PMO) Appendix N (antibiotic) sample prior to entering the receiving bay.

### 2 Receiving Bay Sampling

Improve operational efficiency and reduce receiving bay congestion. Install a beveled seat TruStream Sanitary Port at the outlet valve on the tanker truck.

### 3 Raw Product Sampling

Collect a representative sample for regulatory or milk quality samples. Install a TruStream Sanitary Recessed Port in the raw receiving silo.

### 4 System Diagnostic

As part of the diagnostic function, system quality check, Clean in Place (CIP) cleanliness check, and overall milk quality samples, install a TruStream Sanitary Port at any location throughout your fluid path.

### 5 Post-Pasteurization Monitoring

Monitor post-pasteurization contamination and verify pasteurization effectiveness and efficiency. Install a TruStream Sanitary Port on the backside of the pasteurizer.

### 6 Bulk Starter Tank

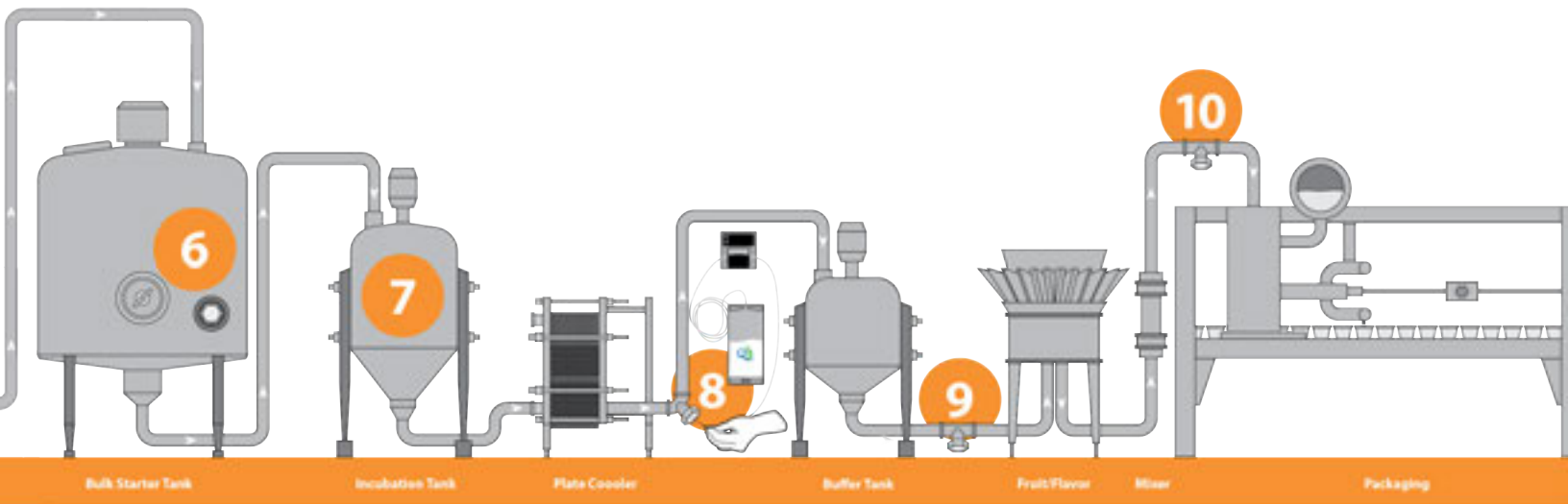
Help mitigate the risk of unwanted microorganisms entering the vat and contaminating the products. Install a TruStream Sanitary Tank Port or Recessed Port on the exterior of the tank or silo.

### 7 Incubation Tank

Obtain quality of process samples by installing a TruStream Sanitary Port on the side of the incubation tank.

## Onsite Training:

Nelson-Jameson and QualiTru™ provide onsite training, evaluation of current systems, recommendations of QualiTru products based on application, as well as troubleshooting for any current issues you may be experiencing.



- 8 After The Plate Cooler or Chiller**  
 Samples can be used for regulatory requirements or milk quality as well as for troubleshooting quality and cleaning issues. Install a TruStream Sanitary Port (either elbow or straight); we recommend it be installed as close to the chiller outlet as possible.
- 9 System Diagnostic**  
 As part of the diagnostic function, system quality check, Clean in Place (CIP) cleanliness check, and overall milk quality samples, install a TruStream Sanitary Port at any location throughout your fluid path.
- 10 Filler**  
 Collect samples for regulatory compliance or to verify the sterility of the product just prior to packaging as well as verifying the lack of contaminants system-wide. Install a TruStream Sanitary Port just before the filler.

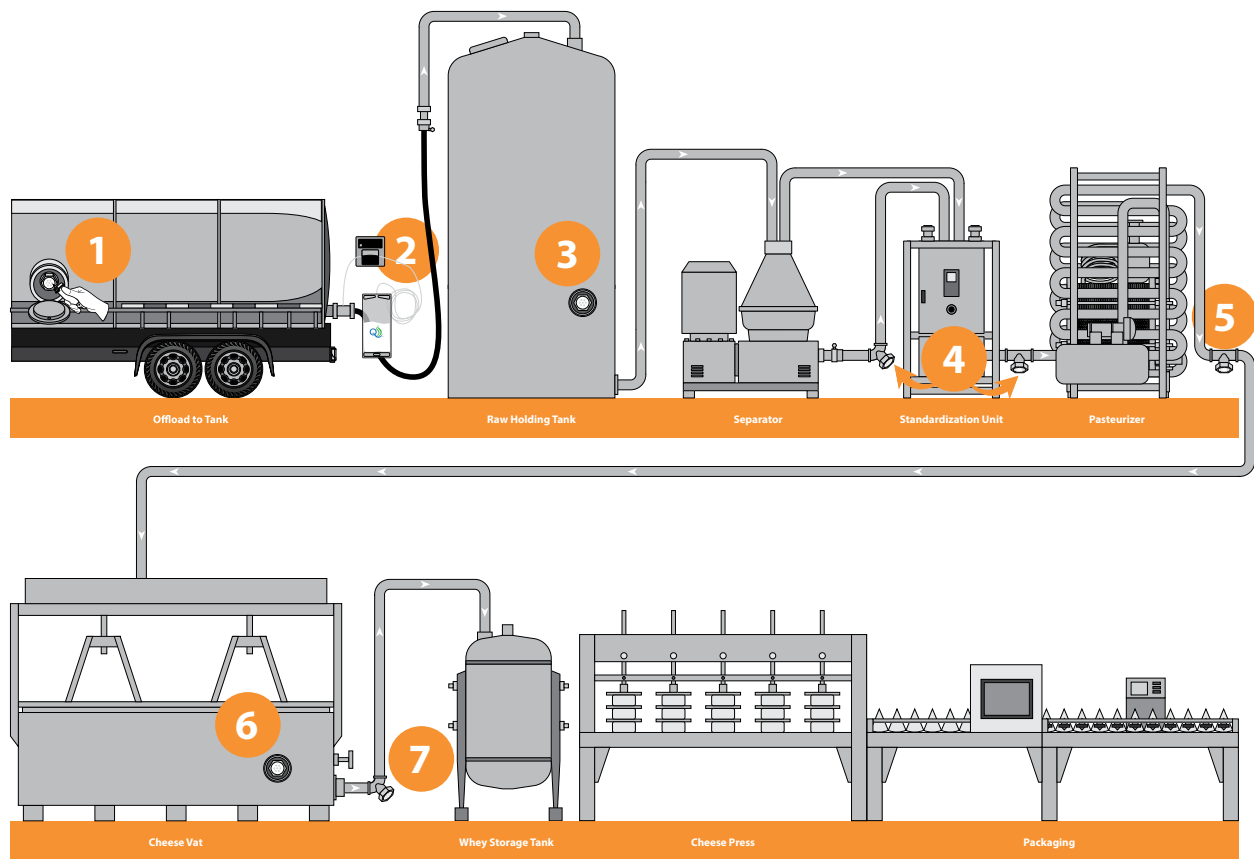
## QualiTru Sampling Systems™ Are Ideal For:

- **Vertical/Horizontal Milk Tanks:** Provides aseptic access to fluid raw milk product without requiring the opening of manway doors.
- **Post-Pasteurization:** The most effective methods for post-pasteurization monitoring for the identification and control of contaminants.
- **Process Management Verification:** The flexibility of QualiTru™ port placement allows users to pinpoint specific areas of concern for corrective action.

## QualiTru Sampling Systems™ Regulatory Approvals Include:

- FDA M-I-06-12 Needle Only Method
- FDA M-I-08-5 Milk Tank Trucks
- FDA M-I-06-6 Direct Load
- FDA M-I-12-4 Universal Dairy Farm Samples
- FDA M-I-16-17 Appendix N Samples





Install Sanitary Ports throughout the dairy cheese processing plant to provide easy, aseptic sampling.

**1 Milk Tanker Truck Sampling**  
Eliminate the need to climb to the top of the tanker truck to assure a safer physical sampling environment and improve operational efficiency. Install a Sanitary Recessed Port with Security Lid to pull an official Pasteurized Milk Ordinance (PMO) Appendix N (antibiotic) sample prior to entering the receiving bay.

**2 Receiving Bay Sampling**  
Improve operational efficiency and reduce receiving bay congestion. Install a beveled seat TruStream Sanitary Port at the outlet valve on the tanker truck.

**3 Raw Product Sampling**  
Collect a representative sample for regulatory or milk quality samples. Install a TruStream Sanitary Recessed Port in the raw receiving silo.

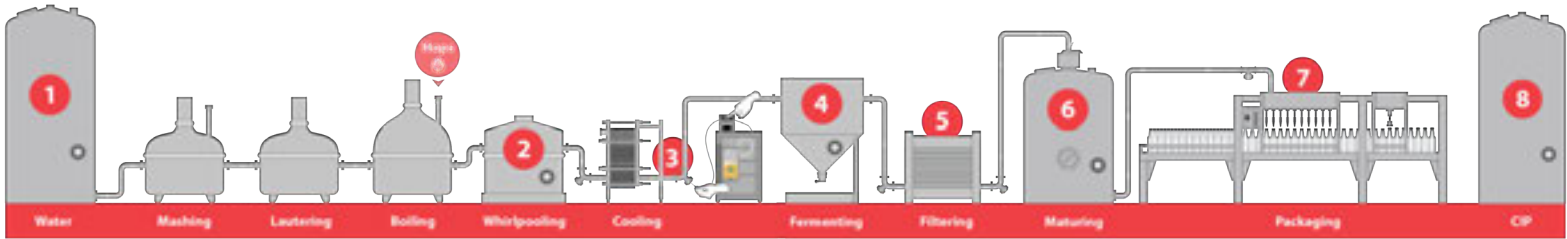
**7 Whey Analysis**  
Whey filtration sampling is primarily used for process monitoring and solid analysis. Install a TruStream Sanitary Port off the vat outlet valve and prior to the whey storage tank or silo for regulatory or quality samples.

**4 System Diagnostic**  
As part of the diagnostic function, system quality check, Clean in Place (CIP) cleanliness check, and overall milk quality samples, install a TruStream Sanitary Port at any location throughout your fluid path.

**5 Post-Pasteurization Monitoring**  
Monitor post-pasteurization contamination and verify pasteurization effectiveness and efficiency. Install a TruStream Sanitary Port on the backside of the pasteurizer.

**Inoculating**  
Help mitigate the risk of unwanted microorganisms entering the vat and contaminating the product as well as allowing access to inoculate the milk with specific cultures while keeping the system closed to the environment. Install a TruStream Sanitary Tank Port or Recessed Port on the exterior of the vat.

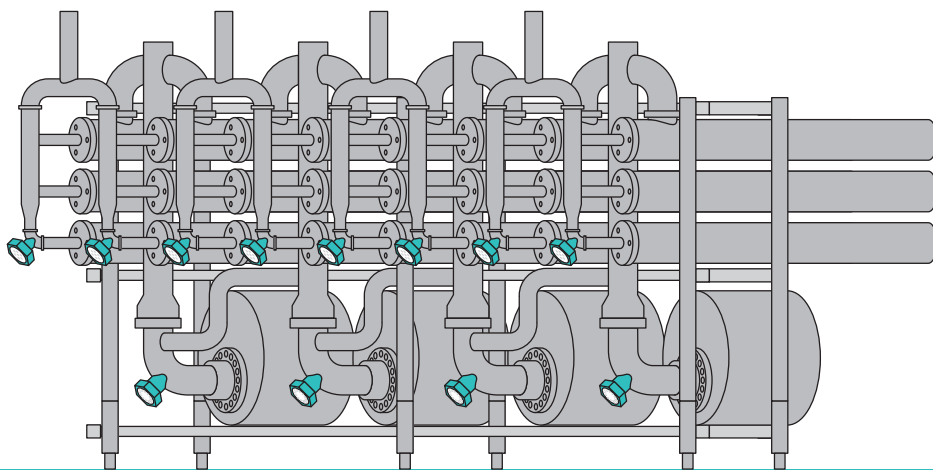




Install Sanitary Ports throughout the craft beer processing plant to provide easy, aseptic sampling.

- 1 Incoming water sampling**  
 Test for water ions (calcium, magnesium, sulfate, sodium, chloride, and bicarbonates) and microorganism counts by installing a TruStream Sanitary Port.
- 2 Whirlpooling**  
 Test wort for specific gravity, turbidity, and microbiological contamination by installing a TruStream Sanitary Port.
- 3 Wort Cooling and Peristaltic Pump**  
 Test for microbiological contamination by installing an inline TruStream Sanitary Port.
- 4 Fermentation Tank**  
 Obtain an aseptic sample at various times throughout the fermentation process by installing a Sanitary Recessed Port.
- 5 Filtering**  
 As part of a system diagnostic function to check for alcohol, turbidity, yeast counts, and microbiological contamination. Install a TruStream Sanitary Port before and after each piece of equipment.
- 6 Finished Product Sampling**  
 To obtain quality samples throughout the beer maturation process, install a TruStream Sanitary Recessed Port in the finished good tank.
- 7 Filler**  
 Obtain quality samples and check the effectiveness of the system CIP process. Install a TruStream Sanitary Port just prior to the filler.
- 8 Clean in Place (CIP)**  
 Ensure the effectiveness of the process by installing a TruStream Sanitary Port to sample CIP rinse water.

## Why Processor Application Sites



Membrane Verification Sites

**Membrane Verification Sites**  
 As part of the diagnostic function, system quality check, Clean in Place (CIP) cleanliness check, and overall milk quality samples, install a TruStream Sanitary Port at any location throughout your fluid path.



## Guidelines for Optimal QualiTru™ Septa Performance:

### Septa Options Include:

**109-3027**

TruStream7 Septa



**109-3029**

TruStream7 Septa  
(High Temp)



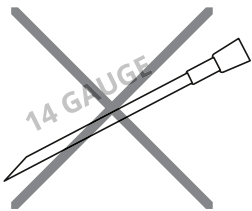
**109-3042**

TruStream12 Septa

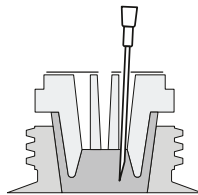


**109-3049**

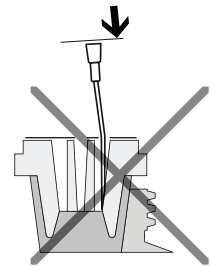
TruStream12 Septa  
(High Temp)



Do not use 14 gauge needles on the 7 channel septa. (#109-3027 and #109-3029).

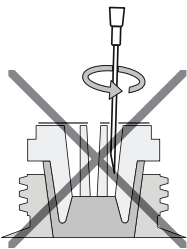


When inserting the needle, face the bevel of the needle toward the outside of the septa.



Do not force the needle into the channel of the septa. The needle should glide in smoothly. If resistance\* is felt, then back out the needle and try another channel.

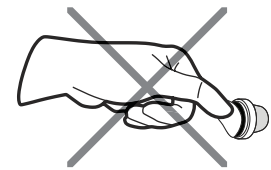
*\*Resistance is caused by the lumen of the needle hitting the stainless, which can bend the needle if used with force.*



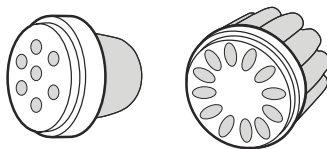
Do not rotate the needle when inserting it into the septa channel.



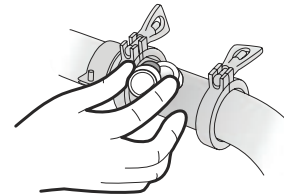
Only handle the septa by the white/blue rim. Do not touch the material on the bottom portion of the septa.



Do not remove the white decal on the top of the septa.



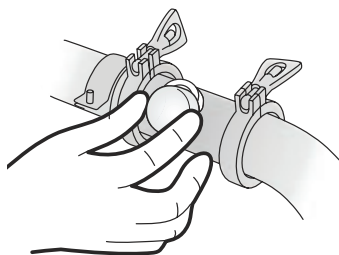
Only use each channel once. (7 times for #109-3027 and #109-3029 and 12 times for #109-3042 and #109-3049).



When all the channels of the septa have been used, make sure to remove the used septa and replace it with a new septa before drawing your next CIP process.

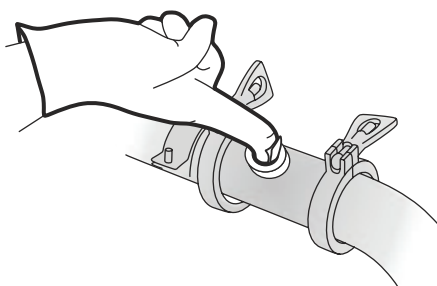
## 5 Easy Steps to Replace the Septa

1



Remove the QualiTru™ blue dust cover, loosen and remove the nut, and remove the used septa.

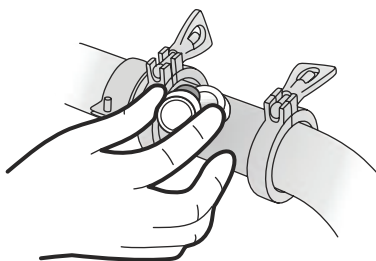
2



Sanitize the inside of the TruStream stainless steel port with an approved sanitizer spray or alcohol wipes.

**NOTE:** If using alcohol wipes, we recommend using a two-step process with two clean alcohol wipes. The first to remove any sediment and the second to sanitize.

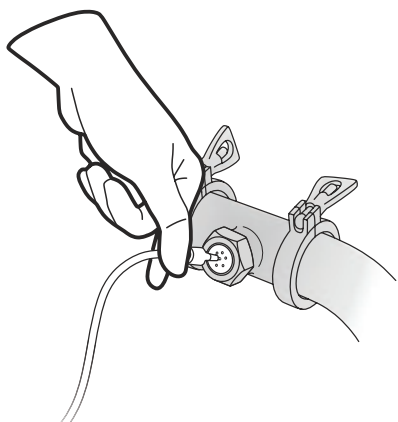
3



Insert the new septa into the TruStream stainless steel port. Remember to only touch the outside of the rim of the septa. Place the nut over the septa, hand tighten the nut and then tighten  $\frac{1}{8}$  turn with a wrench. Swab the outer surface of the septa with sanitizer.

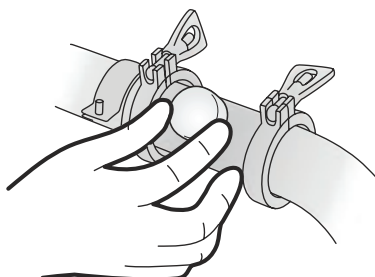
**NOTE:** The nut may need to be re-tightened periodically due to vibration and cleaning cycles.

4



Insert the needle into the septa. This allows aseptic samples to be drawn a single time from each channel without risk of cross-contamination.

5



Replace the blue dust cover.

# Use this Product & Usage Guide as a Reference for all your Aseptic Sampling Needs.

Utilizing QualiTru Sampling Systems™ is a simple, dependable solution for the most accurate liquid sampling. An established sampling plan utilizing QualiTru™ ports and septa will give the ability to detect potential contamination issues before they become detrimental to the process. These products can also be installed to assist in root cause analysis of an existing issue.



## Collecting Aseptic Liquid Samples is as Easy as 1, 2, 3, 4...

1



### Sanitary Ports

QualiTru™ 316L stainless steel sanitary ports are 3-A Certified and manufactured under rigorous quality control standards in an ISO 9001:2015 certified facility. They are designed to allow easy access for raw or sterile process monitoring.

2



### Sterile Septa

The sterile septa allows aseptic samples to be drawn a single time from each channel (either a 7 port or 12 port option) virtually eliminating the risk of contamination.

3



### Sterile Collection Units

The complete line of single-use, sterile disposable collection units in a variety of sizes and configurations for virtually every application.

4



### Peristaltic Pumps

Utilize a peristaltic pump to help draw liquid samples into a sterile collection bag. The continuous flow of the pump collects a universal sample throughout the entire process run.