

A hand is shown holding a sterile sampling bottle assembly. The assembly consists of a clear glass bottle with a white handle, a white cap, and a stainless steel top section with three black knobs and a red-handled valve. The background is a blurred image of industrial biotech equipment, including pipes and tanks, in a clean, blue-tinted environment.

Sterile Sampling Bottle Assembly

Biotechnic

SANITARY PROCESS COMPONENTS

Sterile Sampling Bottle Assembly

ALLOWS CAPTURING AND HANDLING OF LIQUID STERILE PRODUCT SAMPLES

- SIP/CIP
- Fully Autoclavable Assembly
- Stainless Steel, POM Construction
- Borosilicate Bottle
- Steam Cleanable Diaphragm Divert Valve
- Optional Adjustable Bottle Holder with Removable Handle for Bottle Sizes 500 ml or 1000 ml
- Full Material Traceability
- Customized For Your Needs

TECHNICAL DATA

VALVE: Divert T Diaphragm Valve with manual or pneumatic actuation

SURFACE FINISH: Meets BPE-1997 SFV6 surface requirements for mechanically polished and electropolished (MP/EP) valves, 20 μ -in/0.8 μ -m Ra.

MATERIALS

VALVE BODY:

316L Stainless Steel

DIAPHRAGMS: EPDM or TFM/EPDM (FDA and USP 23 Class VI compliant)

O-RINGS: EPDM, Viton, or PTFE encapsulated (FDA and USP 23 Class VI compliant)

BOTTLE: Borosilicate Glass (100 ml - 1000 ml)

HANDLE: 316L SS and Acetal (POM) - FDA

AVAILABLE CONNECTIONS

In-Out Ports:

1/2" Sanitary Clamp

Vent: 1/2" Sanitary Clamp,

1/4" Hose Barb, male luer-slip

OPERATING DATA

Max Pressure: 3 bar (45 psi)

Max Temperature: 150°C

OPTIONAL

Flexible hose assembly with 1/2" connections

Disposable vent filters

1/2" Steam trap



How To Use

PHASE 1: Autoclaving the Sample Bottle

1. Prepare the Sample Bottle Assembly for the autoclave by connecting the filter element* to the filter port. Close the hand knob labeled "Product" on the Sample Bottle. This seals the interior of the Sample Bottle.
2. Autoclaving. Place the Sample Bottle Assembly in the autoclave.
3. Remove the handle from the Sample Bottle Assembly prior to autoclaving. To detach the handle, simply push the release button on the handle with the thumb of your hand holding the assembly. While depressing the release button slide the handle downward and away from the Sample Bottle. Begin your autoclaving cycle.
4. After the autoclaving cycle is completed, reattach the handle to the Sample Bottle and remove the assembly from the autoclave.

NOTE: The Sample Bottle Assembly is designed to function with sample valves that features SIP capabilities (VPA or VPAK).

Using the Sample Bottle Assembly in conjunction with a sample valve that does not feature SIP capabilities will not allow the sample path to be steam sterilized prior to sampling. For a list of suitable SIP sample valves, see Biotechnic Aseptic Sampling Valves brochure or please contact us.

PHASE 2: Connecting to a Tank Sample Valve

1. Connect the Sample Bottle connection labeled "IN" to the Tank Sample Valve outlet. Attach a steam trap to the Sample Bottle connection labeled "OUT". NOTE: Attaching the Sample Bottle Assembly to the SIP Tank Sample Valve may be accomplished using either flexible tubing or stainless tubing designed for this application.

SIP Cycle

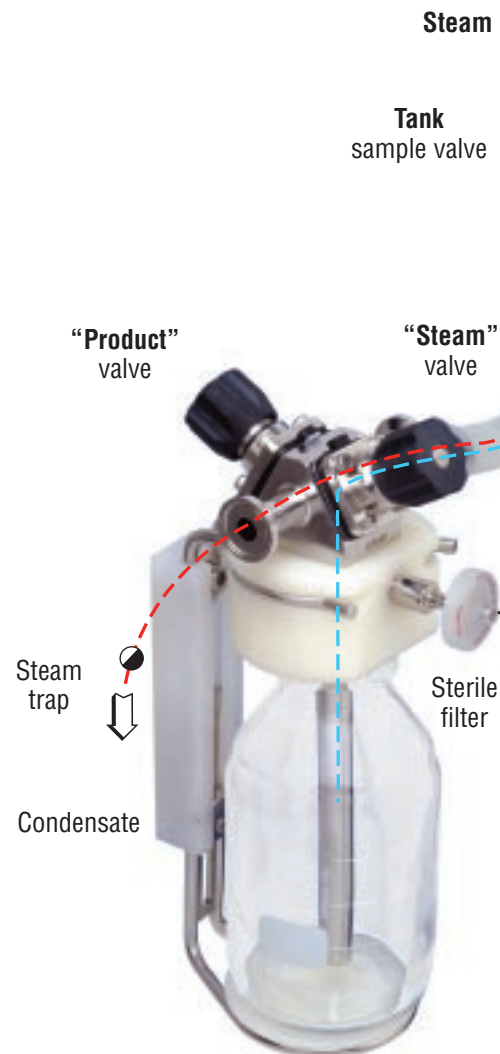
2. Open the knob labeled "STEAM" and the SIP steam intercepting valve to steam all product sample contact surfaces. At the completion of the steaming cycle, first, close the SIP valve, secondly, close the knob labeled "STEAM".

WARNING: When handling live steam and process fluids that are hazardous or corrosive, extra precautions must be taken. Failure to follow these instructions could result in serious injury or damage to personal property.

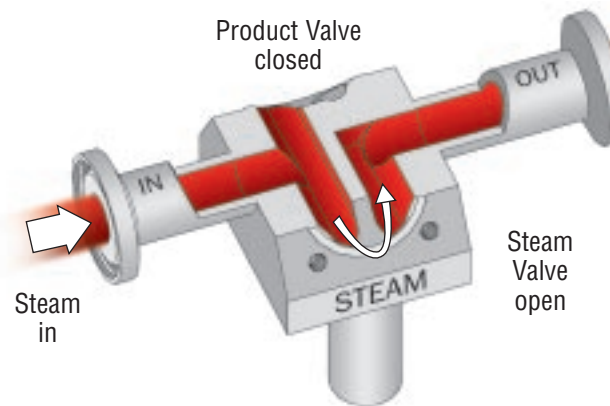
Sample Taking

3. A sterile sample can now be taken from the tank by opening the Tank Sample Valve and the knob labeled "PRODUCT". Take the desired quantity of sample. When enough sample is collected, first, close the Tank Sample Valve and the knob labeled "PRODUCT". Open the SIP valve and the knob labeled "STEAM" and the entire Sterile Tank Sampling System, except the Sampling Bottle can now be cleaned of sample residue. Close the SIP valve and the knob labeled "STEAM".
4. Disconnect the Sample Bottle from the Tank Sample Valve and remove the steam trap. Each subsequent sampling procedure begins with PHASE 1: Autoclaving the Sample Bottle.

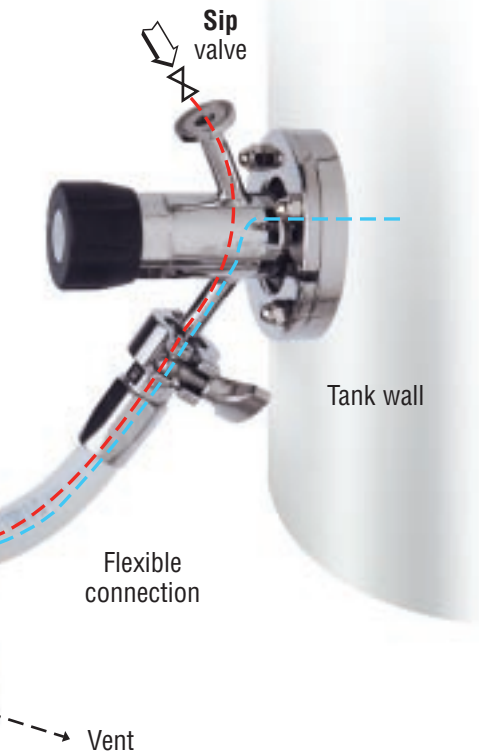
TYPICAL INSTALLATION



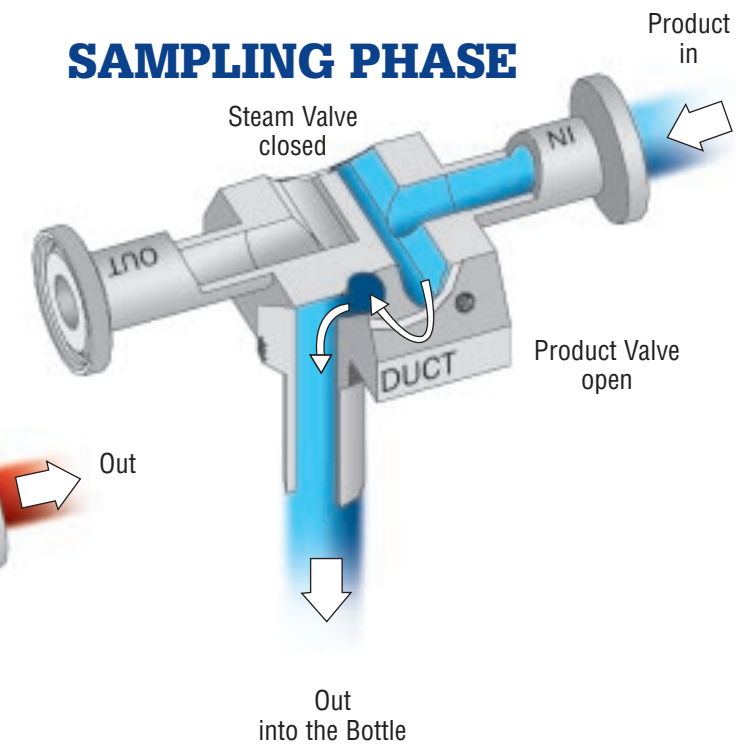
SIP PHASE



Sample Valves To Use With Sample Bottle Assembly



SAMPLING PHASE



VPAK Sample Valve with optional Flush Mount Tank Connection.



VPA Sample Valve with optional Flush Mount Tank Connection.

DOCUMENTATION: All valves are fully traceable for validation processes. Each valve is accompanied by material test certificates, USP 23 Class VI and FDA regulations compliance certificates.

For additional information on the above sampling valves, please see the *Biotechnic Aseptic Sampling Valves brochure* or our web site: www.biotechniconline.com

HOW TO ORDER THE BIOTECHNIC SAMPLE BOTTLE

Body Size BLOCK A	Body Material BLOCK BA	Assembly BLOCK BB	Body Ends BLOCK BC	Interior Finish BLOCK BD
Electropolish BLOCK BE	Bonnet Type BLOCK C	Diaphragm BLOCK D	Bottle Size BLOCK SB	Accessories BLOCK T

BIOTECHNIC FIGURE NUMBER CODES

BODY SIZE [in.] (Block A)

Code	Description
05	0.50 in.

BODY MATERIAL (Block BA)

Code	Description
SS	SS (316) bar stock
<i>Special alloys available upon request.</i>	

ASSEMBLY (Block BB)

Code	Description
PS	Sample Bottle with Adjustable Bottle Holder
PI	Sample Bottle without Adjustable Bottle Holder

BODY ENDS (Block BC)

Code	Description
419	Tri-Clamp Tube
<i>Other connections available upon request.</i>	

MECHANICAL POLISH - INTERIOR (Block BD)

Code	Description
0	180 Grit (25 μ -in.) - Standard
8	220 Grit (20 μ -in.)
9	320 Grit (11 μ -in.)

ELECTROPOLISH (Block BE)

Code	Description
2	Interior & Exterior
0	NO E.P.

ACTUATION (Block C)

Code	Description
M	Manual - (1/2" Bonnet)
A	Pneumatic - (Fail Safe to Close with Indicator)

DIAPHRAGMS (Block D)

Code	Material
16	EPDM (FDA)
T1	PTFE/EPDM (FDA) laminated

BOTTLE SIZE (Block SB)

Code	Material
B05	50 ml
B10	100 ml
B25	250 ml
B50	500 ml
B100	1000 ml

ACCESSORIES (Block T)

Code	Material
ST	1/2" Steam Trap
FU	Filter Units
HS	Flexible Hose Assembly

In the interests of development and improvement of the product, we reserve the right to change the specifications.

BIOTECHNIC PRODUCT BROCHURES



Biotechnic

SANITARY PROCESS COMPONENTS

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