Sterile Sampling Bottle Assembly

AR® INOX

Sanitary flow equipment

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Sterile Sampling Bottle Assembly

ALLOWS CAPTURING AND HANDLING OF LIQUID STERILE PRODUCT SAMPLES

- SIP/CIP
- Fully Autoclavable Assembly
- Stainless Steel, PVDF 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

DOCUMENTATION
All valves are fully traceable for validation processes.
Each valves is accompanied by material test certificates EN 10 204 3.1B
3A standards compliance certificates, and USP 23 class VI and FDA regulations compliance certificates.

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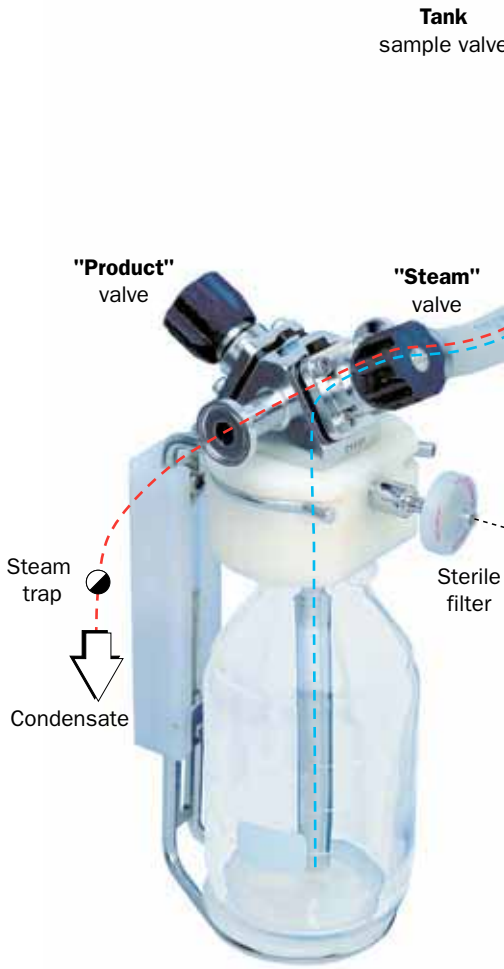
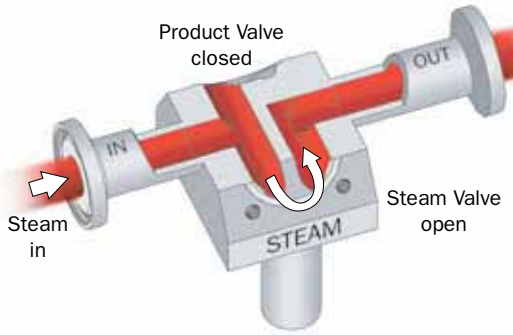
Available Top configurations

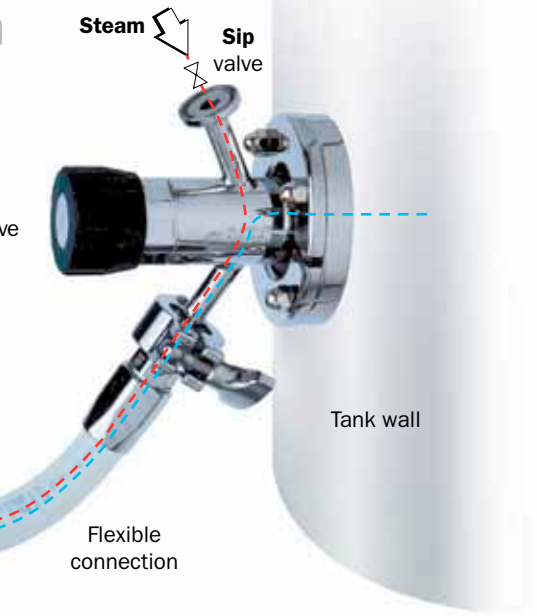
Typ. Installation



SIP phase



How to use

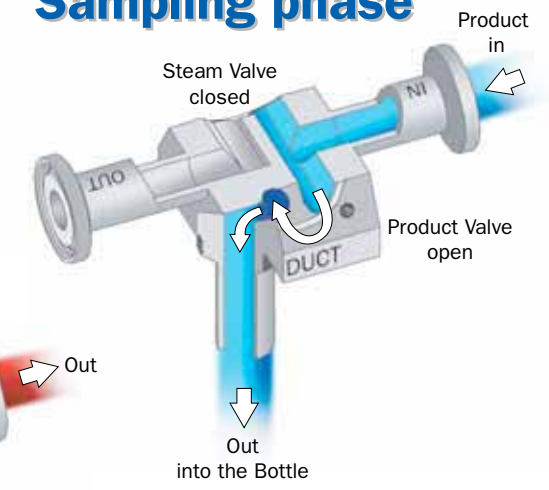


PHASE 1:
Autoclaving the Sample Bottle

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.*
   (monouse autoclavable up to 121°C per 15 minutes at 15 psi ACRODISC-PALL suggested)
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 Bottlle 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 Aseptic Sampling Valves brochures or please contact us.

Sampling phase



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.
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 propery
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 then the knob labeled "PRODUCT". Open the SIP valve and the knob labeled "STEAM" and the entire Sterile Tank Sampling System, exept 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.*

SSB ORDERING INFORMATION

To specificy the part completely, start with the product descriptions and select the additional options as shown below:

Model	volume	IN connection	OUT connection	VENT connection	seals	actuator	finish	material
SBA-	05	AG	AG	ZC	TF	MC	-71	A

Bottle Model	
SBA	asepic bottle - divert valve
SBS	sanitary bottle - standard cap
SBX	special bottle on request

Bottle Volume	
02	250 ml
05	500 ml
10	1000 ml

Connections		
AG	1/2" clamp BS/ASME	SBA bottle
ZC	Luer Male	
PL	Rubber hose 10x1mm	SBS bottle
AC	1/4" clamp BS/ASME	
ZE	Luer Male + No reject	
on request		

Seals (only SBA)	
TF	TFM/PTFE diaphragm + FEP oring
EF	EPDM diaphragm + FEP oring
on request	

Actuator (only SBA)	
MC	manual handle
PN	pneumatic actuator

Materials	
A	AISI 316L-1.4404
on request	

Surface Finish	
71	≤ 0,5 µm
41	≤ 0,5 µm + Electropolish
on request	

Pneumatically actuated diaphragm valves - NC DN 15 - 1/2”

TECHNICAL DATA

Process valves:	diaphragms manual adjustable knob	
Surface finish:	internal	Ra<0,5 um
	external	mirror polished

MATERIALS

Valves body:	AISI 316L (Werkstoff n. 1.4404) sanitary design
Diaphragms:	PTFE/EPDM - FDA compliance
O-ring:	standard FEP (PTFE incapsulated)
Bottle:	500-1000 ml borosilicate glass
Header:	PVDF
Removable handle:	PVDF

AVAILABLE CONNECTION

In-out:	½” clamp BS
Vent:	standard male luer-slip optional ½” clamp BS or rubber hose

Manual operated diaphragm valves DN 15 - 1/2”

OPERATING DATA

Max pressure:	up to 3 bar
Max temperature:	up to 150°C

OPTIONAL

PALL Acrodisc CR PTFE Syringe Filters
Silicone flexible hose ½”clamp BS connections

SPARE PARTS SUGGESTED

Valves diaphragms PTFE/EPDM
Body valves o-ring FEP
Glass bottle o-ring FEP
500-1000 ml glass bottle