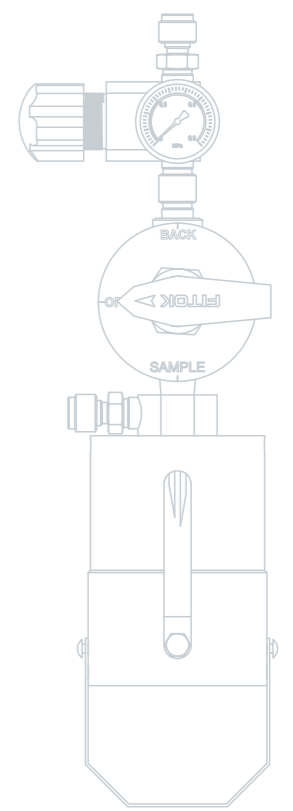
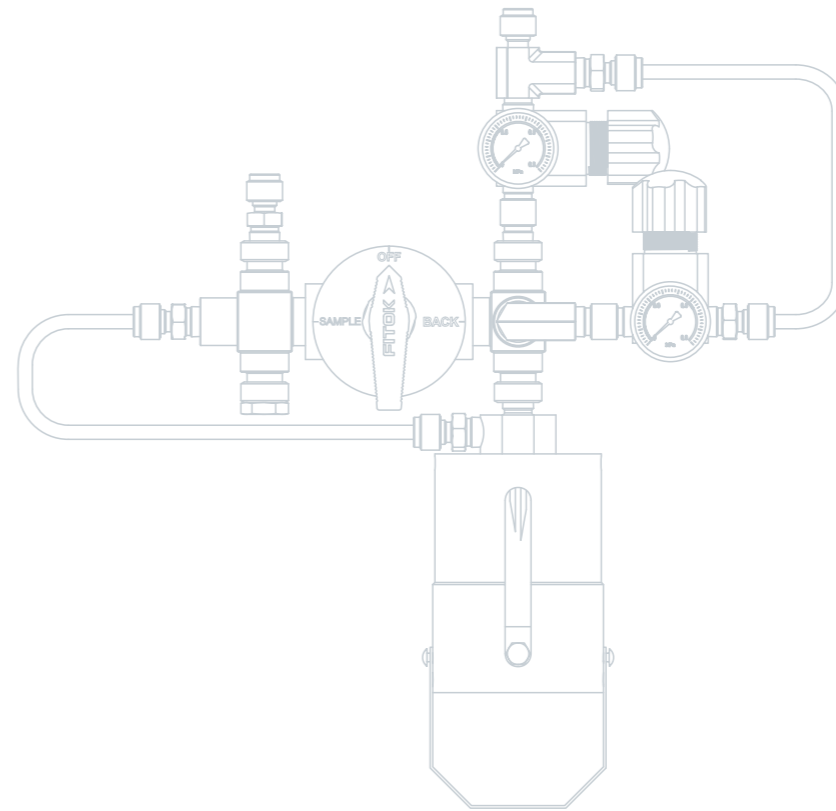


FITOK Closed-loop Sampling System



FITOK

Valves and Fittings

Closed-loop Sampling System

FITOK Group

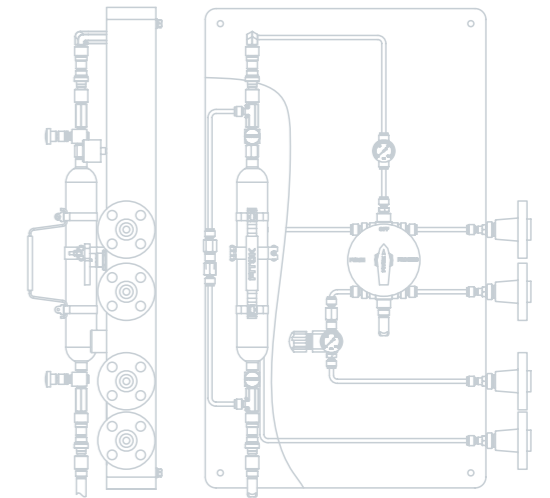
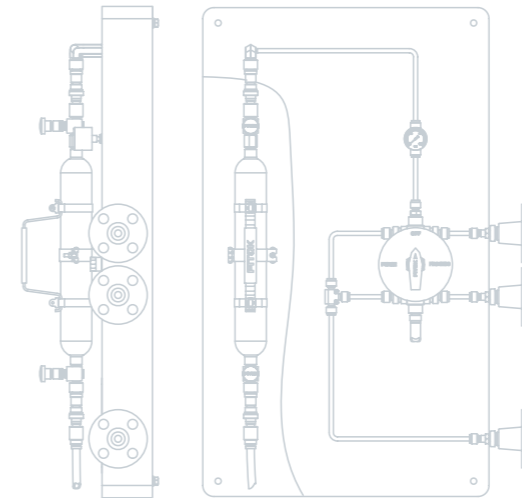
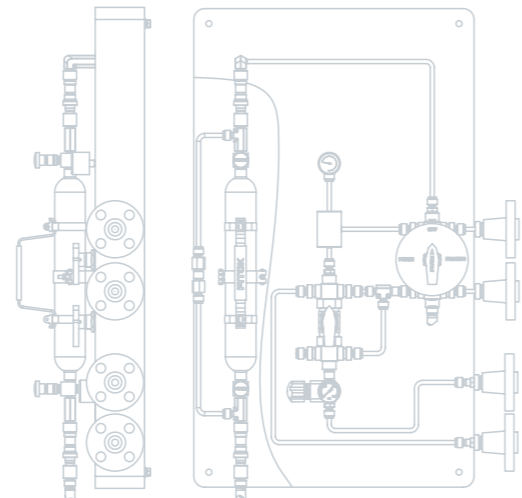
FITOK GmbH (Headquarter)
 Spremlinger Landstr. 115, 63069 Offenbach am Main, Germany
 Tel.: +49 69 8900 4498 Fax: +49 69 8900 4495

FITOK, Inc.
 13843 North Promenade Blvd., Suite 750, Stafford, Texas 77477, USA
 Tel.: +1 281 888 0077 Fax: +1 281 888 0033

FITOK Incorporated
 1-4F, Block C, Zone E, Yingtailong Industrial Park, Dalang Street,
 Bao'an District, Shenzhen, 518109, China
 Tel.: +86 755 2803 2500 Fax: +86 755 2803 2619

FITOK Middle East Oil Equipment Trading LLC
 208-209, Makateb Tower, Airport Road, P.O.Box 185412, Deira, Dubai, UAE
 Tel.: +971 4 2959 853 Fax: +971 4 2959 854

info@fitokgroup.com
 www.fitokgroup.com



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Overview

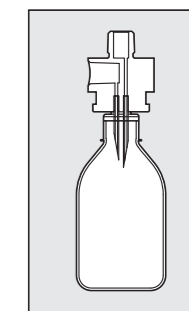
Sampling system, also known as sampler, it is an equipment used for representative sample collection from process, pipeline and storage tank. Due to the growing complexity of the industrial processes, the need for products testing and analyzing increases continuously, and safety for sampling process is taken more and more consideration, simple primitive sampling system evolved into safe and reliable closed-loop sampling system. FITOK closed-loop sampling system is separated into bottle configuration and cylinder configuration according to the container, the difference of these two configurations are container form and sealing type: Bottle configuration sampling system is sealed with an automatically sealed septum; Cylinder configuration is sealed by the needle valves equipped at both ends of the cylinder.

Advantage of FITOK Closed-loop Sampling System

- ⦿ Safer for the operator: Closed sampling, no direct contact between sample and operator, avoided from the harm such as poisoning or corrosion; Effective in pressure and temperature limited, ensure that sampling in the safe pressure and temperature range, avoided from the danger of searing and spraying.
- ⦿ Safer for the sample: Advanced sampling process, provided with functions and methods like sample circulation, system purge, bottle air replaced, etc. to ensure representative sample.
- ⦿ Safer for the environment: Closed sampling, no contact between sample and environment, avoided pollution to the environment. vent carbon adsorption, thereby realizing zero-release of pollution.
- ⦿ Easy operation: Particular valve linkage control, realizing one handle operation in the whole sampling process, to avoid misoperation; reliable container fixed design, no need to hold the container when sampling.
- ⦿ Economic: Advanced manufacturing technology and quality assurance system, ensure high and stable quality products, long service life, and low comprehensive cost
- ⦿ Low maintenance: Component meet general standard and with simple structure, make the maintenance more simple.
- ⦿ Customizability: Can be customized according to customer's request and working condition, custom-made for various applications or special features of a sampling system.

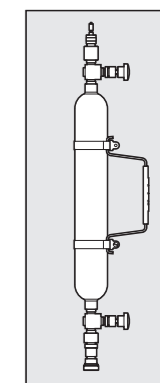
Bottle Configuration Sampling System

- ⦿ Configuration: The container consists of bottle, sealed septum and cap; the sampling loop consists of tubing, valves and fittings.
- ⦿ Operating principle: When sampling, open sampling valve, samples can flow into the sample bottle under system pressure, while air and gases in the bottle are being vented through the vent port. Watching through the window on the protective sleeve, when the required amount has been taken, turn off the sampling valve, the sampling process is complete.
- ⦿ General technical parameters:
 - System main body material: 316 SS (Can be customized)
 - Connections: 1/4" tube fitting, 1/2 NPT, NPS 1/2 Flange (Can be customized)
 - Orifice: 0.19" (4.8 mm) (Can be customized)
 - Maximum working pressure: 1450 psig (100 bar)
 - Working temperature range: 0°F to 450°F (-18°C to 232°C)
- ⦿ Applicable working condition: High temperature, high pressure, high viscosity, strong corrosive, strong toxicity and dangerous liquid bane to the environment.
- ⦿ Mounting type: Direct-mounted, wall-mounted, support bracket, clamping slot, rail-style.



Cylinder Configuration Sampling System

- ⦿ Configuration: The container consists of a cylinder at both ends equipped with a needle valve and a quick-connect; the sampling loop consists of tubing, valves and fittings.
- ⦿ Operating principle: When sampling, samples flow through the sample cylinder via the sampling loop, When sampling liquefied gases or strong volatile liquid, a fixed amount of gas is transferred to the expansion chamber or flare system, when the required volume of sample is taken, turn off the needle valve at both ends, allows the sampling loop to be depressurized, then disconnected the cylinder from the sampling system, the sampling process is complete.
- ⦿ General technical parameters:
 - System main body material: 316 SS (Can be customized)
 - Connections: NPS 1/2 Flange (Can be customized)
 - Orifice: 0.19" (4.8 mm) (Can be customized)
 - Maximum working pressure: 1450 psig (100 bar)
 - Working temperature range: 0°F to 450°F (-18°C to 232°C)
- ⦿ Applicable working condition: High temperature, high pressure, corrosive, strong toxicity, strong volatile and dangerous liquid gas mixture or gas which is bane to the environment.
- ⦿ Mounting type: Wall-mounted, support bracket, clamping slot, rail-style.



B-Bottle Configuration Sampling System

L Series-Liquid Sampling

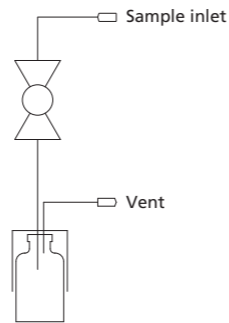
SBLA1-On-off Configuration

Features

- Sampling directly from process or system, low pressure application
- Pressure range: 0 to 145 psig (0 to 10 bar)
- Closed sampling

Technical Specifications and Basic Configuration

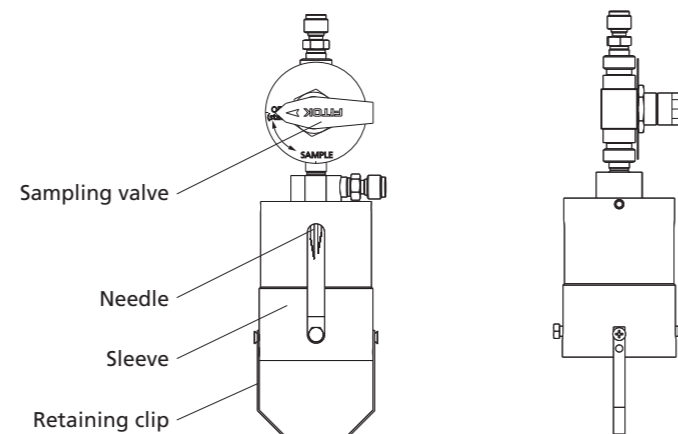
Material	316 SS
Sleeve	300 ml sleeve with bottle retaining clip
Needle Assembly	Body, process / vent needle
	Process / vent needle ID: 0.06" (1.5 mm)
Sampling Valve	BF series 2-way ball valve
	PTFE seats, FKM O-ring
	Max working pressure: 1500 psig (103 bar)
	Temperature range: 0°F to 450°F (-18°C to 232°C)
Operation	Manual
Connections	1/4" tube fitting



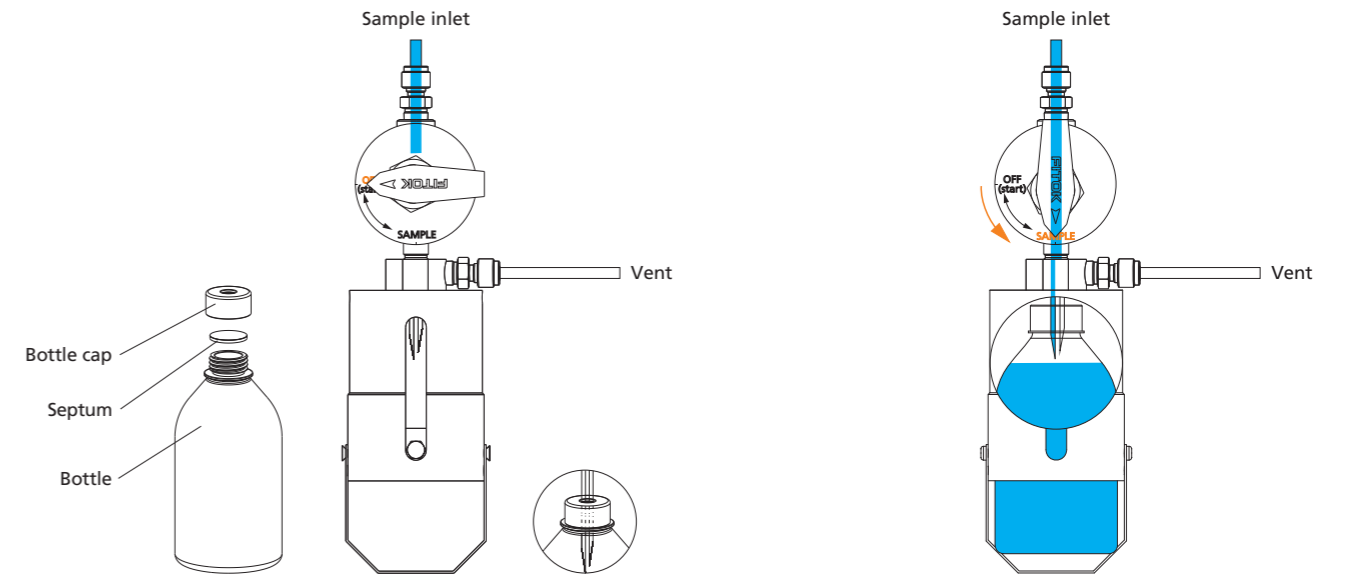
Remarks: The above is a basic specification only, other specifications are available upon requests. If you need other detailed information please contact FITOK group or authorized agent.

Accessories and Options

- Lockable handle
- Mounting plate
- Protective enclosure
- Vent outlet carbon absorption
- Mounting bracket
- Diverse connection types and sizes
- Various materials



Operations

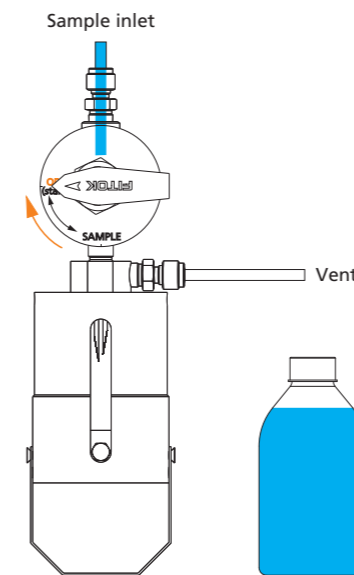


1-off

Place a new septum on the sample bottle, insert the bottle with cap and septum into the sleeve until the septum is pierced by the needles. Adjust the bottle to a suitable height and then buckle up the bottle retaining clip.

2-sampling

Turn the handle of the sampling valve to "SAMPLE" position, allowing sample to flow into the sample bottle until the required amount has been taken.



3-off

Turn the handle of the sampling valve to "OFF" position. Remove the bottle retaining clip and pull the bottle out from the sleeve, the septum reseals automatically. the sampling process is complete.

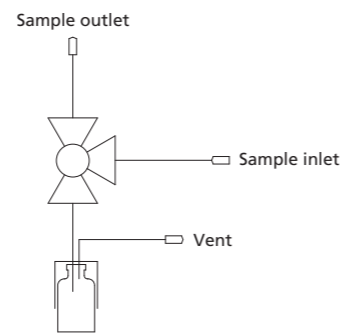
SBLA2-Circulation Configuration

Features

- Sampling directly from process or system, low pressure application
- Pressure range: 0 to 145 psig (0 to 10 bar)
- Closed sampling
- Sample circulation
- Representative sample

Technical Specifications and Basic Configuration

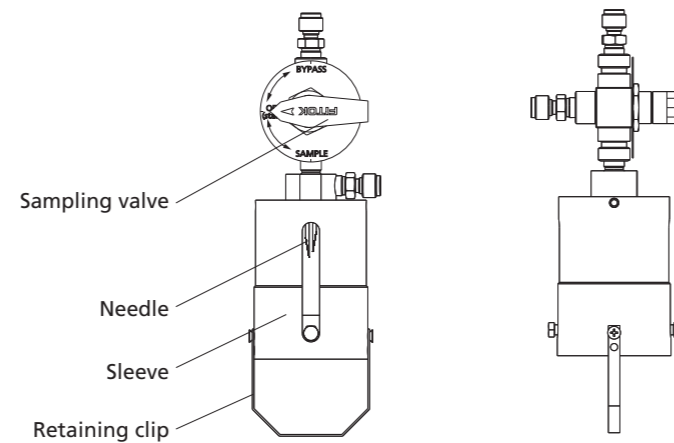
Material	316 SS
Sleeve	300 ml sleeve with bottle retaining clip
Needle Assembly	Body, process / vent needle Process / vent needle ID: 0.06" (1.5 mm)
Sampling Valve	BF series 3-way ball valve
	PTFE seats, FKM O-ring
	Max working pressure: 1500 psig (103 bar)
	Temperature range: 0°F to 450°F (-18°C to 232°C)
Operation	Manual
Connections	1/4" tube fitting



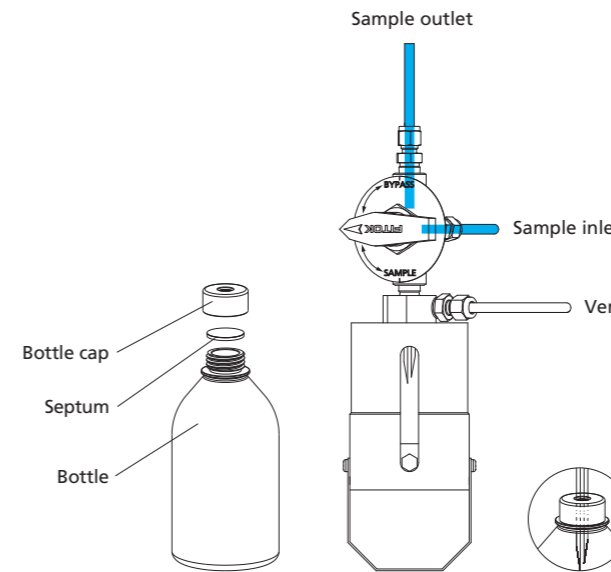
Remarks: The above is a basic specification only, other specifications are available upon requests. If you need other detailed information please contact FITOK group or authorized agent.

Accessories and Options

- Lockable handle
- Mounting plate
- Protective enclosure
- Vent outlet carbon absorption
- Mounting bracket
- Diverse connection types and sizes
- Various materials



Operations

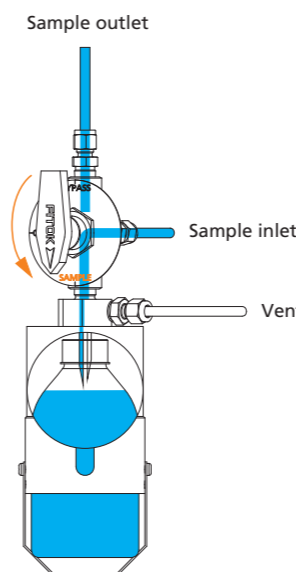


1-off

Place a new septum on the sample bottle, insert the bottle with cap and septum into the sleeve until the septum is pierced by the needles. Adjust the bottle to a suitable height and then buckle up the bottle retaining clip.

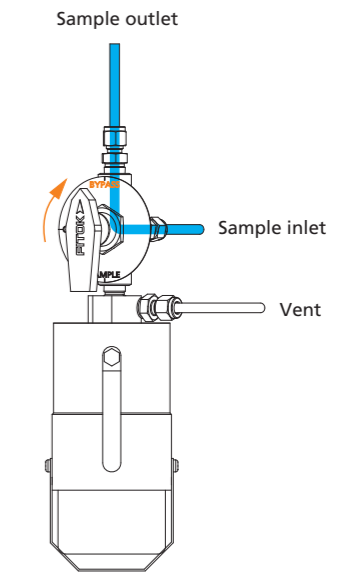
2-Circulation

Turn the handle of the sampling valve to "BYPASS" position, allowing residual sample in the sampler to flow into the process line to ensure representative sampling.



3-sampling

Turn the handle of the sampling valve to "SAMPLE" position, allowing sample to flow into the sample bottle until the required amount has been taken.



4-off

Turn the handle of the sampling valve to "OFF" position. Remove the bottle retaining clip and pull the bottle out from the sleeve, the septum reseals automatically. the sampling process is complete.

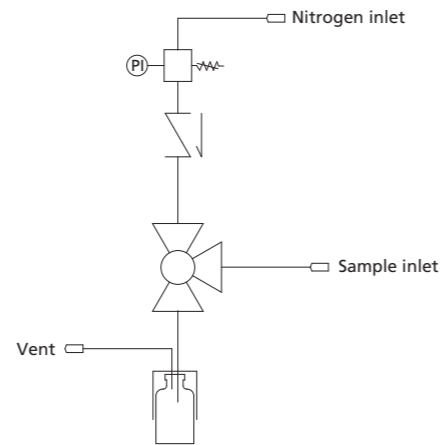
SBLA3-Back Flow Configuration

Features

- Sampling directly from process or system, low pressure application
- Pressure range: 0 to 145 psig (0 to 10 bar)
- Closed sampling
- Back flow
- Representative sample

Technical Specifications and Basic Configuration

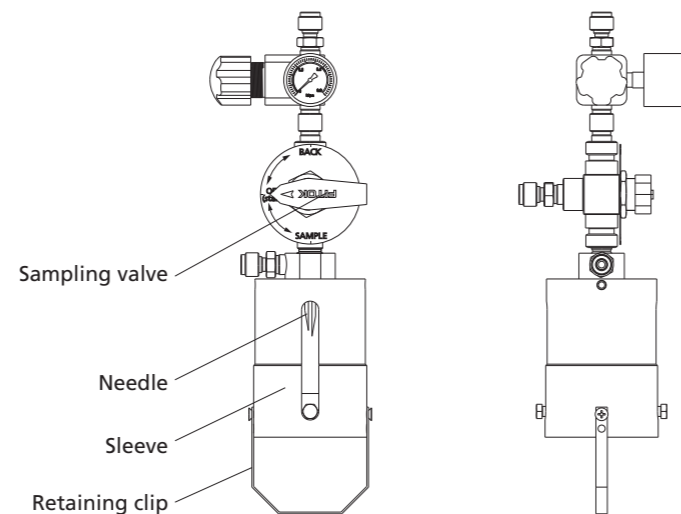
Material	316 SS
Sleeve	300 ml sleeve with bottle retaining clip
Needle Assembly	Body, process / vent needle
	Process / vent needle ID: 0.06" (1.5 mm)
Sampling Valve	BF series 3-way ball valve
	PTFE seat, FKM O-ring
	Max working pressure: 1500 psig (103 bar)
	Temperature range: 0°F to 450°F (-18°C to 232°C)
Nitrogen Branch	Including pressure regulating valve, check valve and pressure gauge
	Max working pressure of pressure regulating valve: 300 psig (20.7 bar)
	Pressure regulating range: 10 psig to 100 psig (0.7 bar to 7 bar)
	CO series check valve
Operation	Manual
Connections	1/4" tube fitting



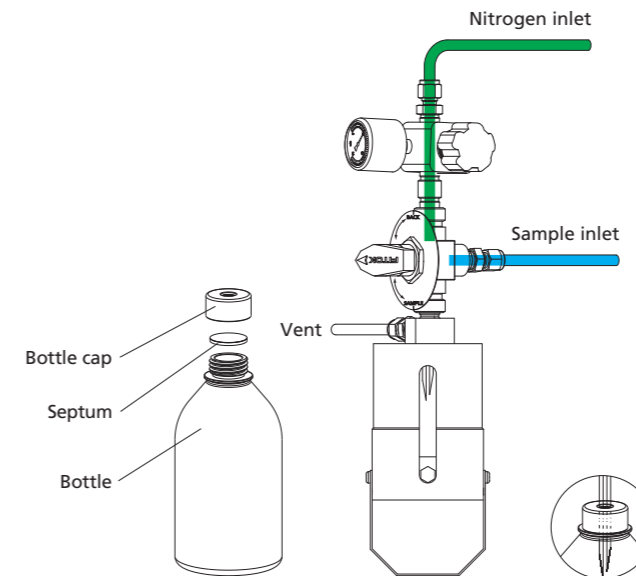
Remarks: The above is a basic specification only, other specifications are available upon requests. If you need other detailed information please contact FITOK group or authorized agent.

Accessories and Options

- Lockable handle
- Mounting plate
- Protective enclosure
- Vent outlet carbon absorption
- Mounting bracket
- Diverse connection types and sizes
- Various materials

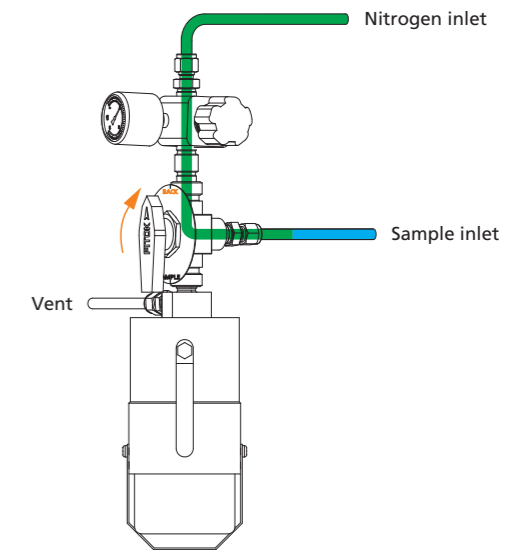


Operations



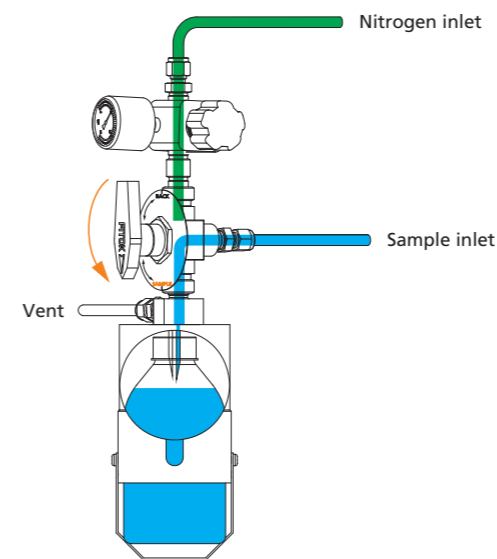
1-off

Place a new septum on the sample bottle, insert the bottle with cap and septum into the sleeve until the septum is pierced by the needles. Adjust the bottle to a suitable height and then buckle up the bottle retaining clip.



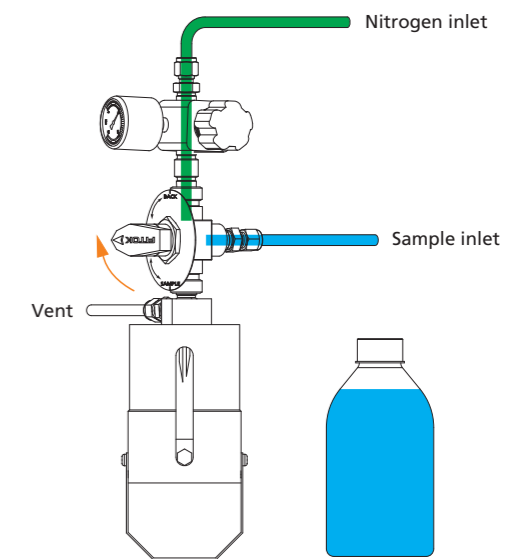
2-back flow

Turn the handle of the sampling valve to "BACK" position, allowing nitrogen gas to flow through the sampler to force any residual sample into the process line to ensure representative sampling.



3-sampling

Turn the handle of the sampling valve to "SAMPLE" position, allowing sample to flow into the sample bottle until the required amount has been taken.



4-off

Turn the handle of the sampling valve to "OFF" position. Remove the bottle retaining clip and pull the bottle out from the sleeve, the septum reseals automatically. the sampling process is complete.

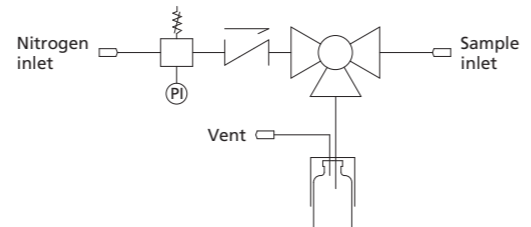
SBLA4-Air Replaced and System Purge Configuration I

Features

- Sampling directly from process or system, low pressure application
- Pressure range: 0 to 145 psig (0 to 10 bar)
- Closed sampling
- System purge
- Bottle air replaced
- Representative sample

Technical Specifications and Basic Configuration

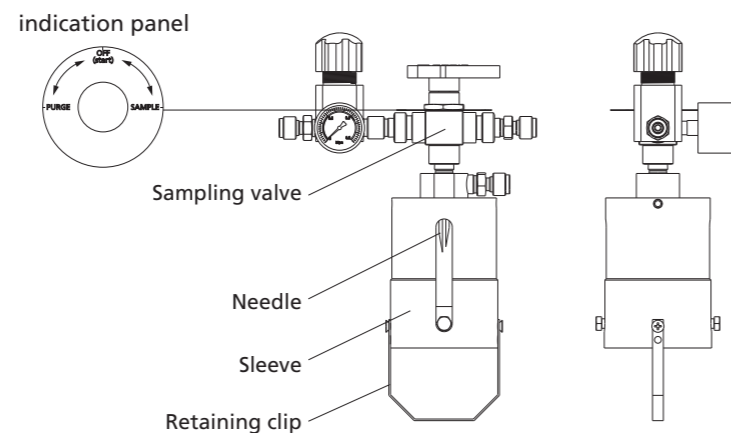
Material	316 SS
Sleeve	300 ml sleeve with bottle retaining clip
Needle Assembly	Body, process / vent needle
	Process / vent needle ID: 0.06" (1.5 mm)
Sampling Valve	BF series 3-way ball valve
	PTFE seat, FKM O-ring
	Max working pressure: 1500 psig (103 bar)
	Temperature range: 0°F to 450°F (-18°C to 232°C)
Nitrogen Branch	Including pressure regulating valve, check valve and pressure gauge
	Max working pressure of pressure regulating valve: 300 psig (20.7 bar)
	Pressure regulating range: 10 psig to 100 psig (0.7 bar to 7 bar)
	CO series check valve
Operation	Manual
Connections	1/4" tube fitting



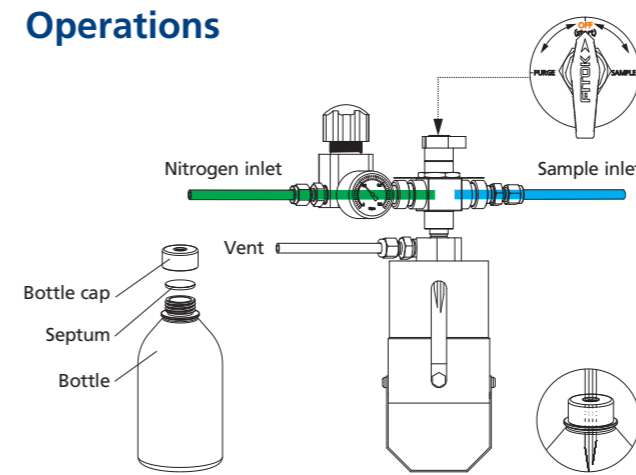
Remarks: The above is a basic specification only, other specifications are available upon requests. If you need other detailed information please contact FITOK group or authorized agent.

Accessories and Options

- Lockable handle
- Mounting plate
- Protective enclosure
- Vent outlet carbon absorption
- Mounting bracket
- Diverse connection types and sizes
- Various materials

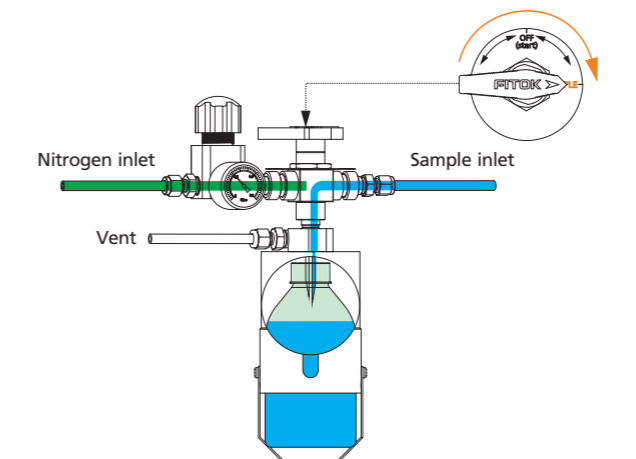


Operations



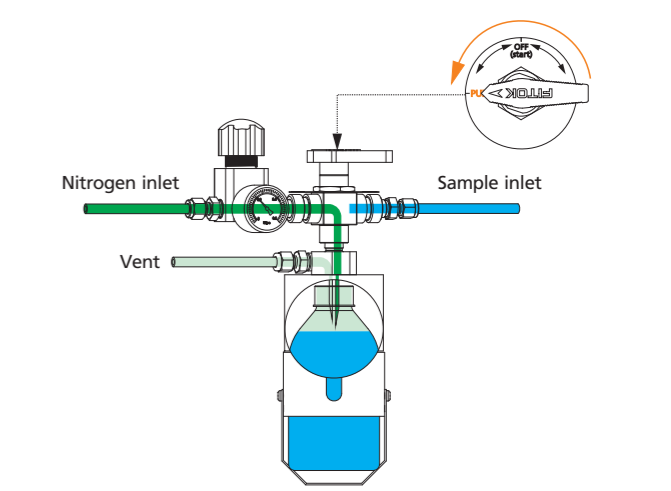
1-off

Place a new septum on the sample bottle, insert the bottle with cap and septum into the sleeve until the septum is pierced by the needles. Adjust the bottle to a suitable height and then buckle up the bottle retaining clip.



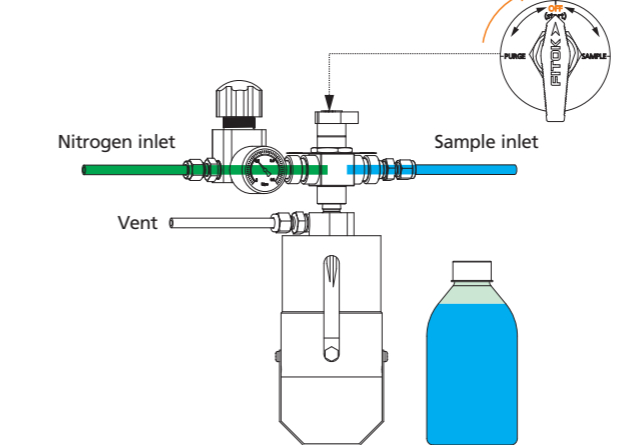
2-air replaced

Turn the handle of the sampling valve to "PURGE" position, allowing nitrogen gas to replace the air in the sample bottle to ensure representative sample.



3-sampling

Turn the handle of the sampling valve to "SAMPLE" position, allowing sample to flow into the sample bottle until the required amount has been taken.



4-system purge

Turn the handle of the sampling valve to "PURGE" position, allowing nitrogen gas to flow through the sampler to ensure any residual sample is forced into the sample bottle.

5-off

Turn the handle of the sampling valve to "OFF" position. Remove the bottle retaining clip and pull the bottle out from the sleeve, the septum reseals automatically. the sampling process is complete.

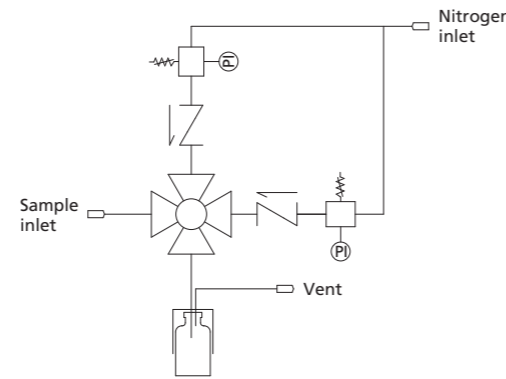
SBLA5-Back Flow, Air Replaced and System Purge Configuration

Features

- Sampling directly from process or system, low pressure application
- Pressure range: 0 to 145 psig (0 to 10 bar)
- Closed sampling
- System purge
- Back flow and bottle air replaced
- Representative sample

Technical Specifications and Basic Configuration

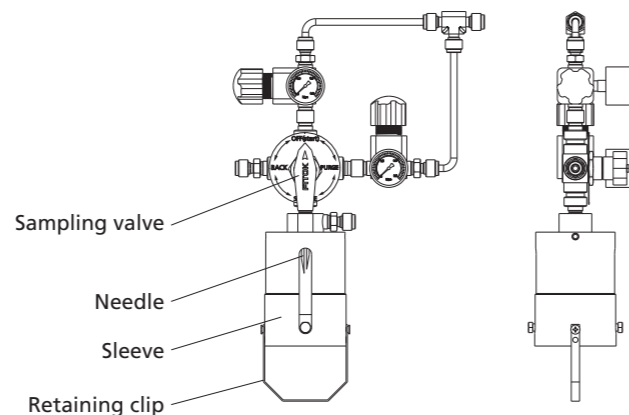
Material	316 SS
Sleeve	300 ml sleeve with bottle retaining clip
Needle Assembly	Body, process / vent needle
	Process / vent needle ID: 0.06" (1.5 mm)
Sampling Valve	BO series 4-way ball valve
	PTFE seat
	Max working pressure: 2500 psig (172 bar)
	Temperature range: -65°F to 300°F (-54°C to 148°C)
Nitrogen Branch	Including pressure regulating valve, check valve and pressure gauge
	Max working pressure of pressure regulating valve: 300 psig (20.7 bar)
	Pressure regulating range: 10 psig to 100 psig (0.7 bar to 7 bar)
	CO series check valve
Operation	Manual
Connections	1/4" tube fitting



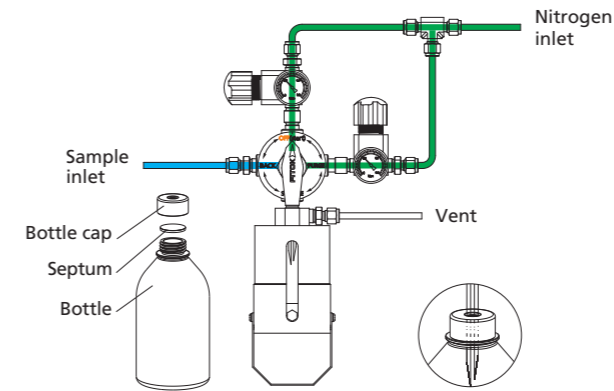
Remarks: The above is a basic specification only, other specifications are available upon requests. If you need other detailed information please contact FITOK group or authorized agent.

Accessories and Options

- Lockable handle
- Mounting plate
- Protective enclosure
- Vent outlet carbon absorption
- Mounting bracket
- Diverse connection types and sizes
- Various materials

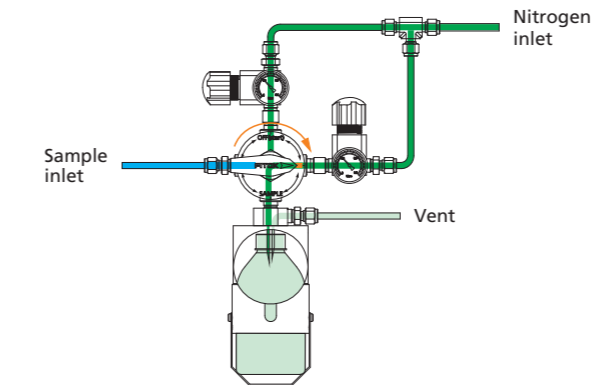


Operations



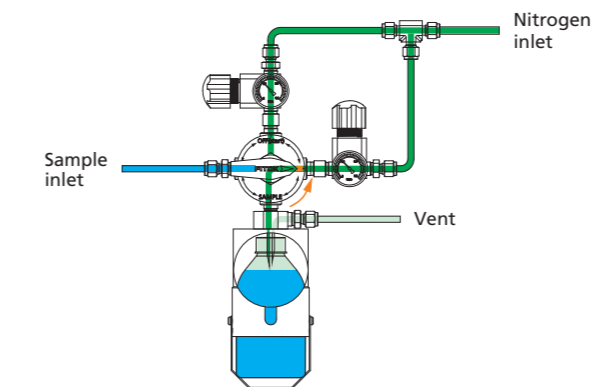
1-off

Place a new septum on the sample bottle, insert the bottle with cap and septum into the sleeve until the septum is pierced by the needles. Adjust the bottle to a suitable height and then buckle up the bottle retaining clip.



3-air replaced

Turn the handle of the sampling valve to "PURGE" position, allowing nitrogen gas to replace the air in the sample bottle to ensure representative sample.

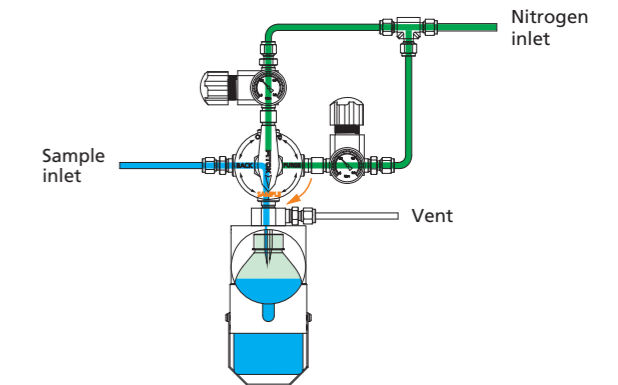


5-system purge

Turn the handle of the sampling valve to "PURGE" position, allowing nitrogen gas flow through the sampler to ensure any residual sample is forced into the sample bottle.

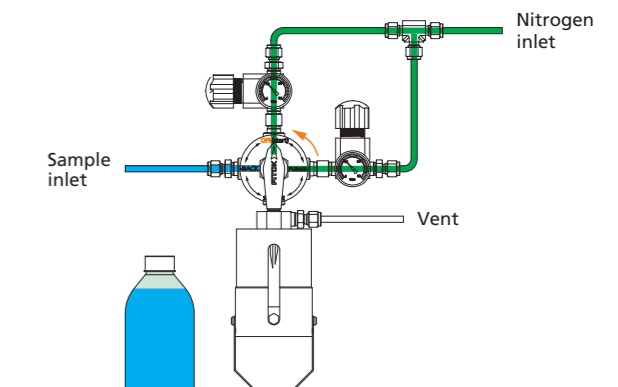
2-back flow

Turn the handle of the sampling valve to "BACK" position, allowing nitrogen gas to flow through the sampler to force any residual sample into the process line to ensure representative sampling.



4-sampling

Turn the handle of the sampling valve to "SAMPLE" position, allowing sample to flow into the sample bottle until the required amount has been taken.



6-off

Turn the handle of the sampling valve to "OFF" position. Remove the bottle retaining clip and pull the bottle out from the sleeve, the septum reseals automatically. the sampling process is complete.

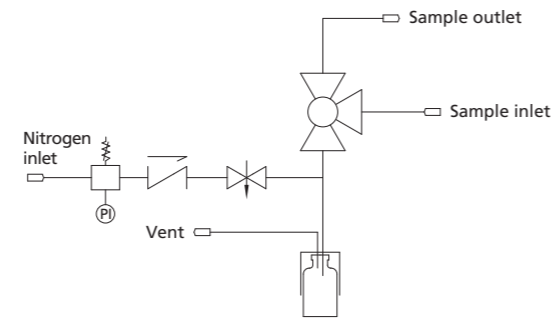
SBLA6-Air Replaced, Circulation and Needle Purge Configuration

Features

- Sampling directly from process or system, low pressure application
- Pressure range: 0 to 145 psig (0 to 10 bar)
- Closed sampling
- Needle purge
- Sample circulation and bottle air replaced
- Representative sample

Technical Specifications and Basic Configuration

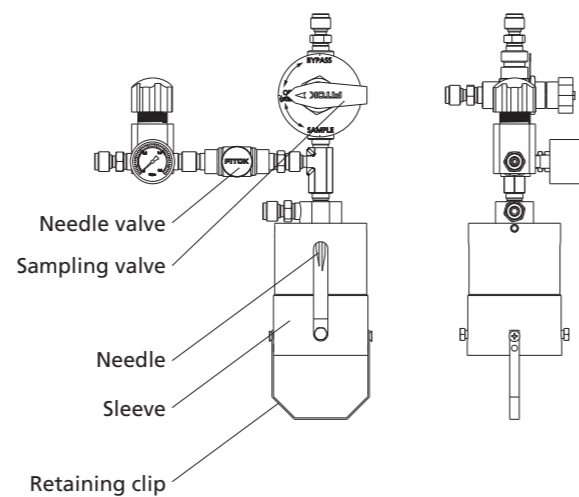
Material	316 SS
Sleeve	300 ml sleeve with bottle retaining clip
Needle Assembly	Body, process / vent needle
	Process / vent needle ID: 0.06" (1.5 mm)
Sampling Valve	BF series 3-way ball valve
	PTFE seat, FKM O-ring
	Max working pressure: 1500 psig (103 bar)
	Temperature range: 0°F to 450°F (-18°C to 232°C)
Nitrogen Branch	Including pressure regulating valve, check valve, pressure gauge and needle valve
	Max working pressure of pressure regulating valve: 300 psig (20.7 bar)
	Pressure regulating range: 10 psig to 100 psig (0.7 bar to 7 bar)
	CO series check valve, ND series needle valve
Operation	Manual
Connections	1/4" tube fitting



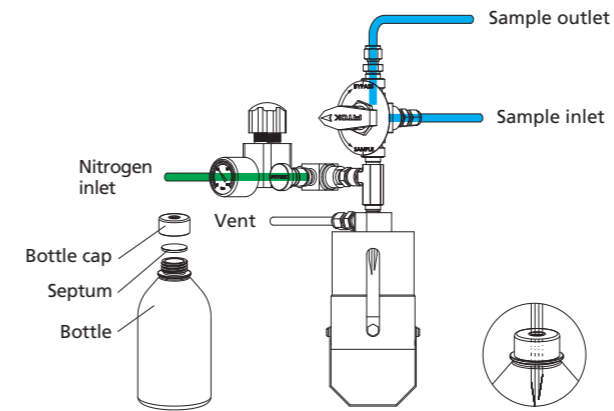
Remarks: The above is a basic specification only, other specifications are available upon requests. If you need other detailed information please contact FITOK group or authorized agent.

Accessories and Options

- Lockable handle
- Mounting plate
- Protective enclosure
- Vent outlet carbon absorption
- Mounting bracket
- Diverse connection types and sizes
- Various materials

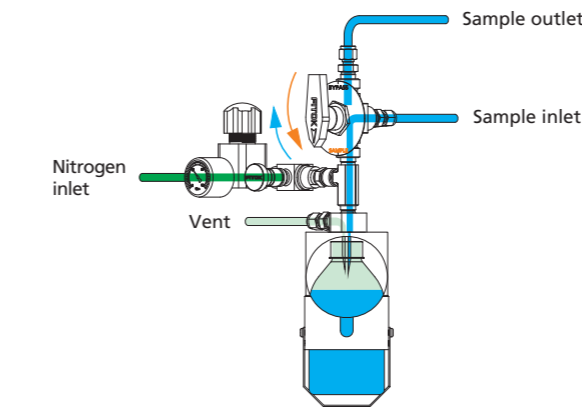


Operations



1-off

Place a new septum on the sample bottle, insert the bottle with cap and septum into the sleeve until the septum is pierced by the needles. Adjust the bottle to a suitable height and then buckle up the bottle retaining clip.

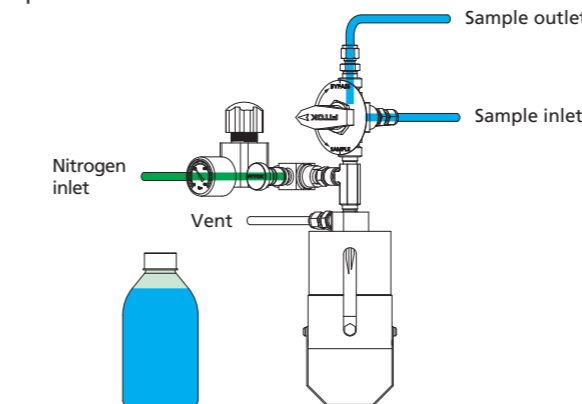


2-circulation, air replaced

Open the needle valve, allowing the nitrogen gas to replace the air in the bottle, turn the sampling valve handle to "BYPASS" position, allowing residual sample to flow into the process line to ensure representative sampling.

3-sampling

Turn off the needle valve, turn the sampling valve handle to the "SAMPLE" position, allowing sample to flow into the sample bottle until the required amount has been taken, turn the sampling valve handle to "OFF" position.



4-needle purge

Open the needle valve, allowing nitrogen gas flow through the sampler to ensure any residual sample is forced into the sample bottle.

5-off

Turn off the needle valve, remove the bottle retaining clip and pull the bottle out from the sleeve, the septum reseals automatically. the sampling process is complete.

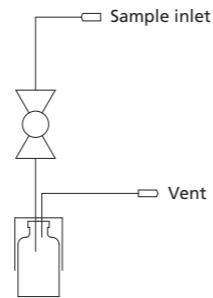
SBLB1-Flange On-off Configuration

Features

- Applicable for sampling from process and container
- Pressure range: 0 to 145 psig (0 to 10 bar)
- Closed sampling
- Representative sample
- Sampling directly from process and container

Technical Specifications and Basic Configuration

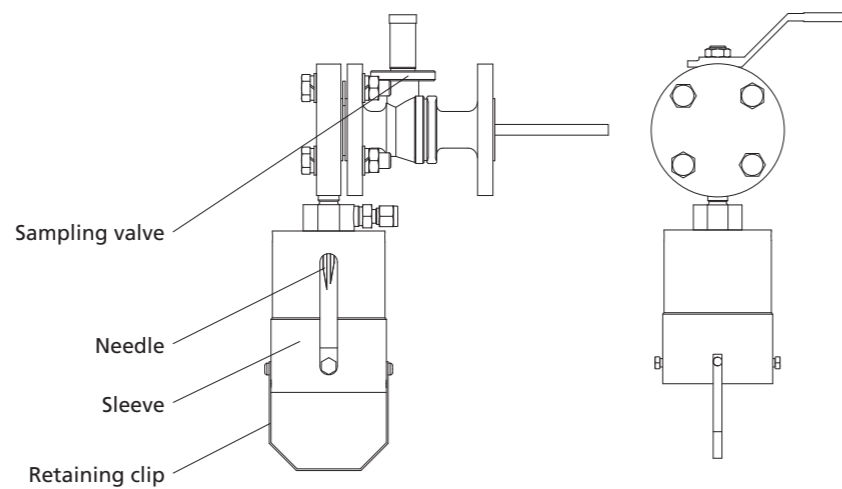
Material	316 SS
Sleeve	300 ml sleeve with bottle retaining clip
Needle Assembly	Body, process / vent needle
	Process / vent needle ID: 0.06" (1.5 mm)
Sampling Valve	BH series 2-way ball valve
	PTFE seats
	Max working pressure: 1500 psig (103 bar)
	Temperature range: -20°F to 450°F (-28°C to 232°C)
Operation	Manual
Connections	Process connection: NPS 1/2 flange
	Vent connection: 1/4" tube fitting



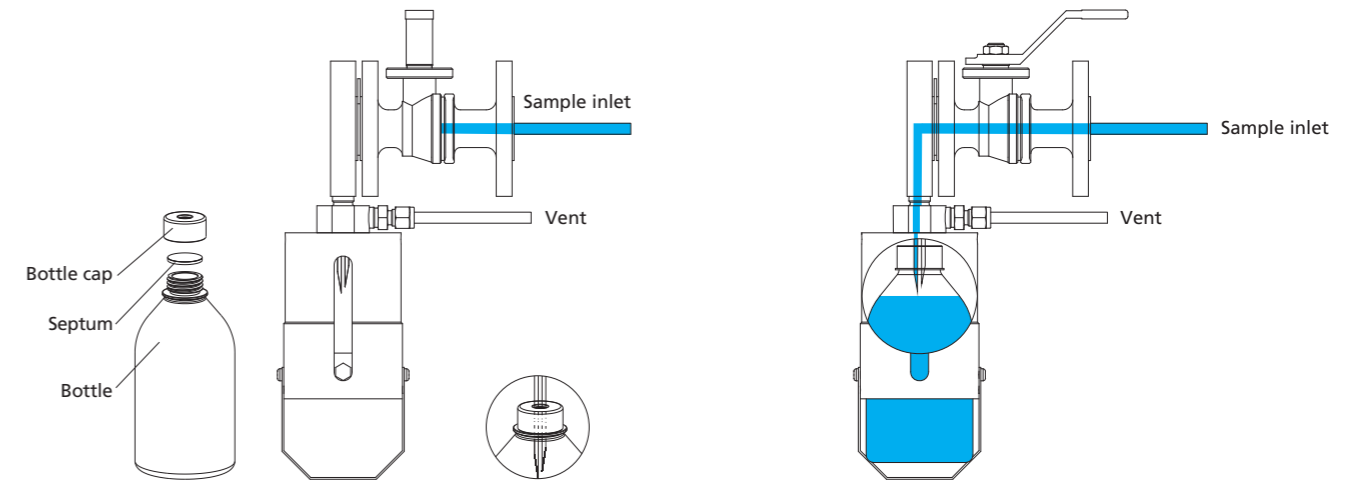
Remarks: The above is a basic specification only, other specifications are available upon requests. If you need other detailed information please contact FITOK group or authorized agent.

Accessories and Options

- Lockable handle
- Various materials
- Protective enclosure
- Vent outlet carbon absorption



Operations

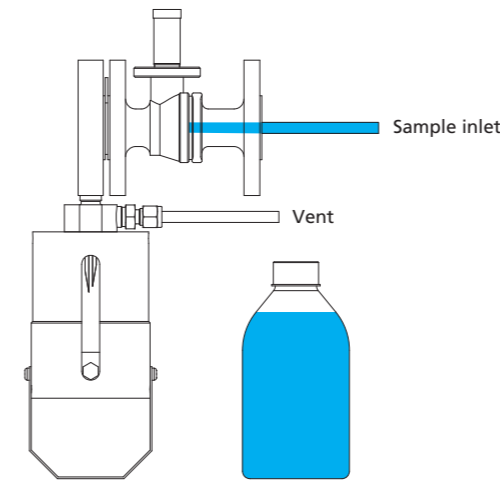


1-off

Place a new septum on the sample bottle, insert the bottle with cap and septum into the sleeve until the septum is pierced by the needles. Adjust the bottle to a suitable height and then buckle up the bottle retaining clip.

2-sampling

Turn the handle of the sampling valve counterclockwise for 1/4 turn, allowing sample to flow into the sample bottle until the required amount has been taken.



3-off

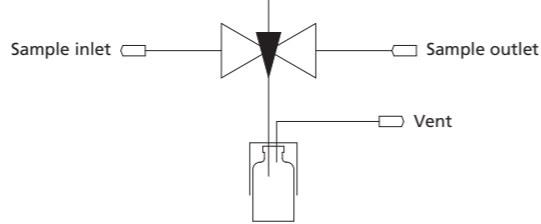
Turn the handle of the sampling valve clockwise for 1/4 turn, remove the bottle retaining clip and pull the bottle out from the sleeve, the septum reseals automatically. the sampling process is complete.

SBLB2-In Line and Circulation Configuration

Features

- ⊙ In line sampling
- ⊙ Pressure range: 0 to 145 psig (0 to 10 bar)
- ⊙ Closed sampling
- ⊙ Sample circulation
- ⊙ Suitable for viscous liquid or liquid with few solid particles

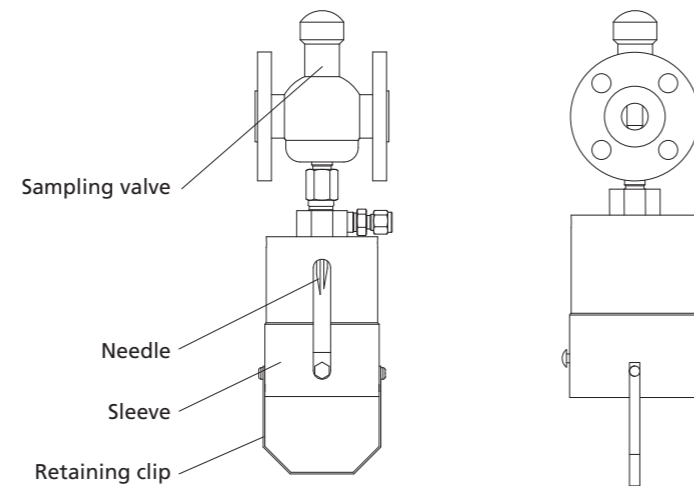
Technical Specifications and Basic Configuration

Material	316 SS	
Sleeve	300 ml sleeve with bottle retaining clip	
Needle Assembly	Body, process / vent needle	
	Process / vent needle ID: 0.06" (1.5 mm)	
Sampling Valve	In-line valve	
	Metallic seal, PTFE packing	
Operation	Manual	
Connections	Process connection: NPS 1/2 flange	
	Vent connection: 1/4" tube fitting	

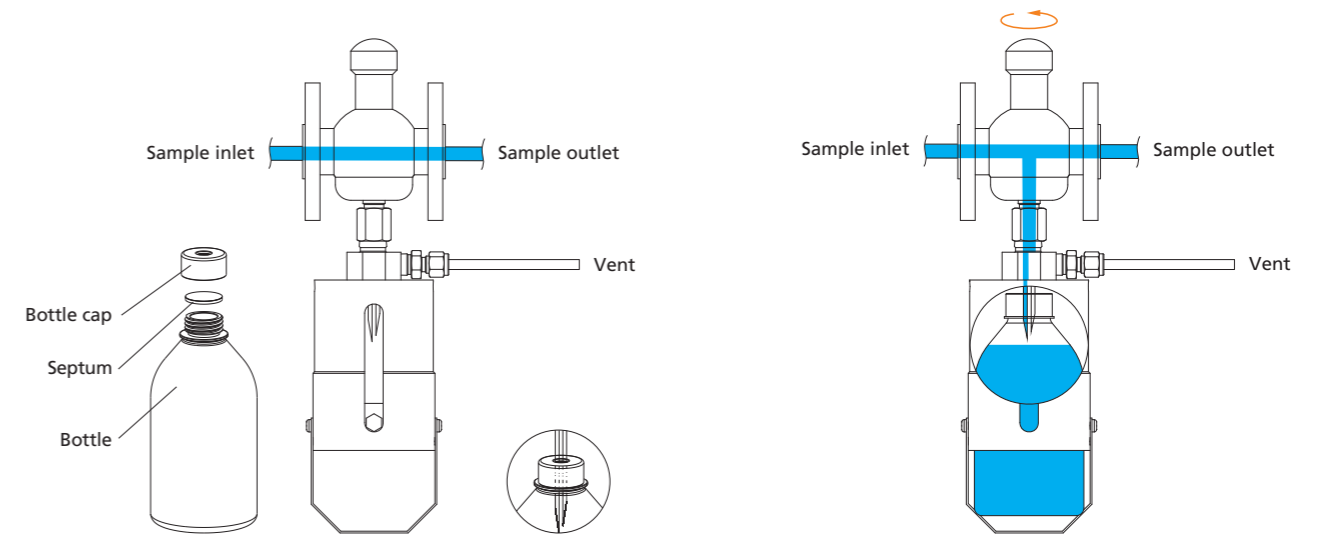
Remarks: The above is a basic specification only, other specifications are available upon requests. If you need other detailed information please contact FITOK group or authorized agent.

Accessories and Options

- ⊙ Lockable handle
- ⊙ Various materials
- ⊙ Protective enclosure
- ⊙ Vent outlet carbon absorption



Operations

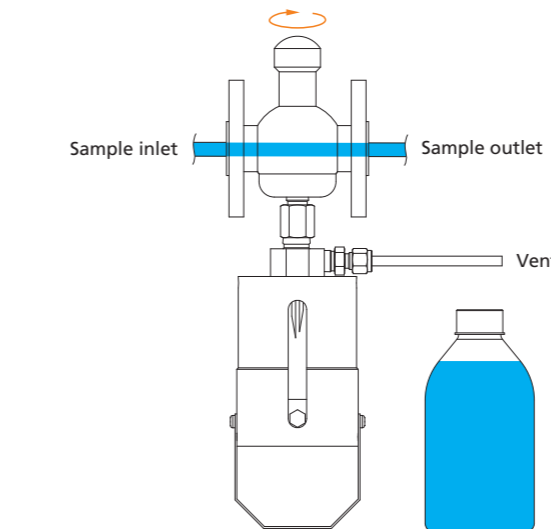


1-off

Place a new septum on the sample bottle, insert the bottle with cap and septum into the sleeve until the septum is pierced by the needles. Adjust the bottle to a suitable height and then buckle up the bottle retaining clip.

2-sampling

Turn on the sampling valve, allowing sample to flow into the sample bottle until the required amount has been taken.



3-off

Turn off the sampling valve, remove the bottle retaining clip and pull the bottle out from the sleeve, the septum reseals automatically. the sampling process is complete.

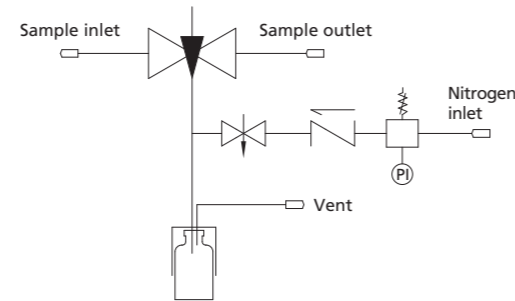
SBLB3-In Line, Air Replaced and Needle Purge Configuration

Features

- ⦿ In line sampling
- ⦿ Pressure range: 0 to 145 psig (0 to 10 bar)
- ⦿ Closed sampling
- ⦿ Bottle air replaced
- ⦿ Representative sample
- ⦿ Suitable for viscous liquid or liquid with few solid particles
- ⦿ Needle purge

Technical Specifications and Basic Configuration

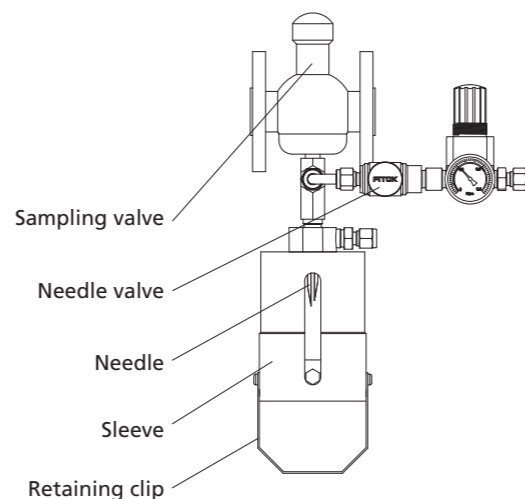
Material	316 SS
Sleeve	300 ml sleeve with bottle retaining clip
Needle Assembly	Body, process / vent needle
	Process / vent needle ID: 0.06" (1.5 mm)
Sampling Valve	In-line valve
	Metallic seal, PTFE packing
Nitrogen Branch	Including pressure regulating valve, check valve, pressure gauge and needle valve
	Max working pressure of pressure regulating valve: 300 psig (20.7 bar)
	Pressure regulating range: 10 psig to 100 psig (0.7 bar to 7 bar)
	CO series check valve, ND series needle valve
Operation	Manual
Connections	Process connection: NPS 1/2 flange
	Vent and nitrogen connection: 1/4" tube fitting



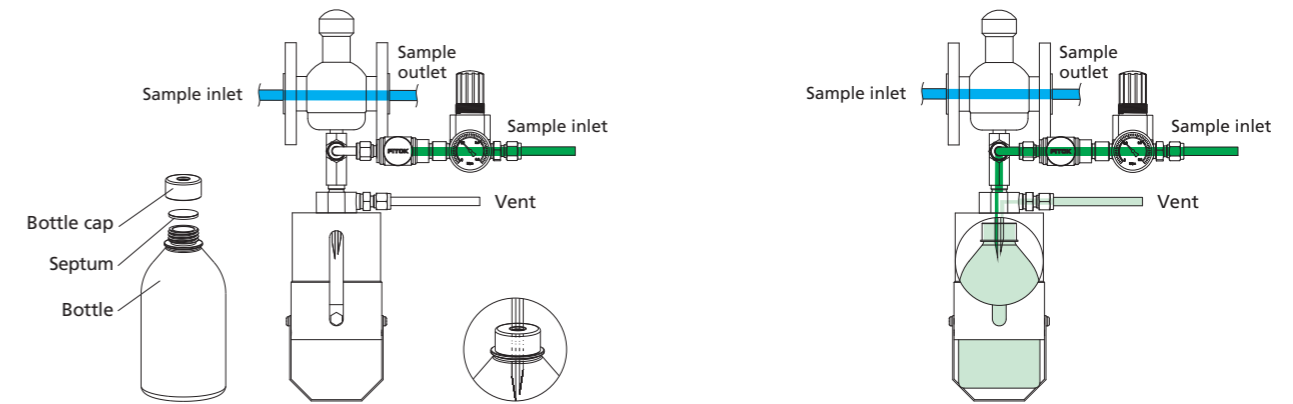
Remarks: The above is a basic specification only, other specifications are available upon requests. If you need other detailed information please contact FITOK group or authorized agent.

Accessories and Options

- ⦿ Lockable handle
- ⦿ Various materials
- ⦿ Protective enclosure
- ⦿ Vent outlet carbon absorption

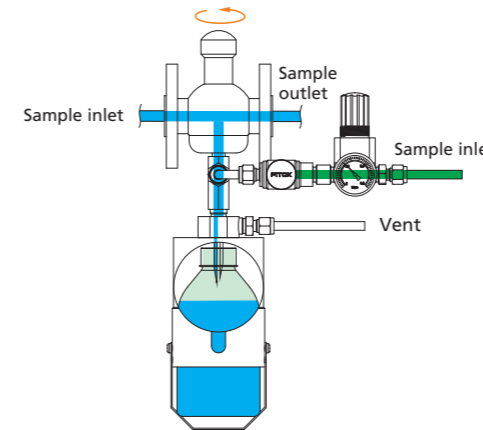


Operations



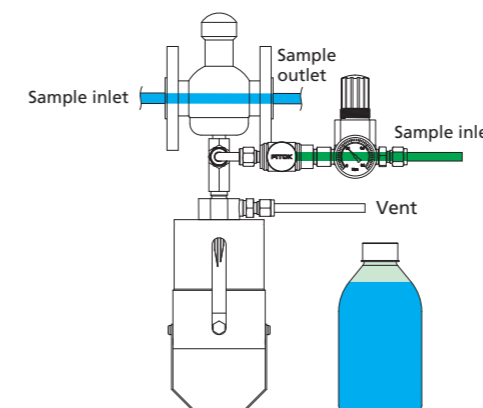
1-off

Place a new septum on the sample bottle, insert the bottle with cap and septum into the sleeve until the septum is pierced by the needles. Adjust the bottle to a suitable height and then buckle up the bottle retaining clip.



3-sampling

Turn on the sampling valve, allowing sample to flow into the sample bottle until the required amount has been taken.

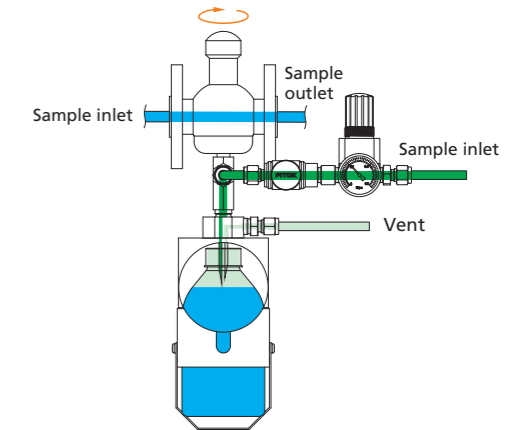


5-off

Turn off the needle valve, remove the bottle retaining clip and pull the bottle out from the sleeve, the septum reseals automatically. the sampling process is complete.

2-air replaced

Turn on the needle valve, allowing nitrogen gas to replace the air in the sample bottle to ensure representative sample.



4-needle purge

Turn off the sampling valve, turn on the needle valve, allowing nitrogen gas to flow through the sampler to ensure any residual liquid is forced into the sample bottle.

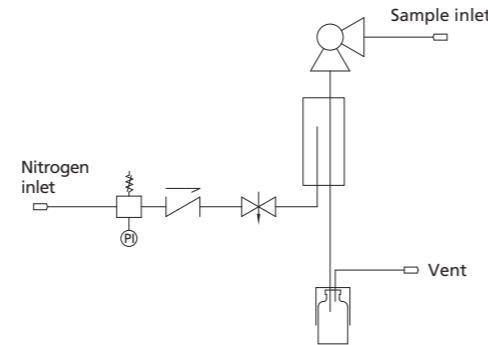
SBLC1-Air Replaced and System Purge Configuration II

Features

- Sampling directly from process or system
- Pressure range: 0 to 145 psig (0 to 10 bar)
- Closed sampling
- System purge
- Bottle air replaced
- Representative sample
- Suitable for high viscous liquid

Technical Specifications and Basic Configuration

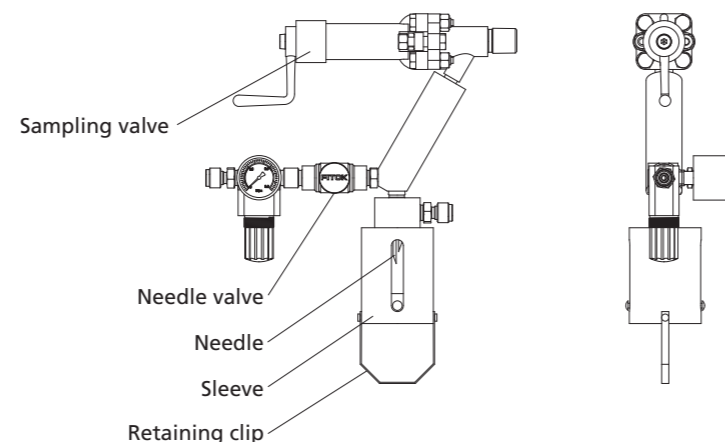
Material	316 SS
Sleeve	300 ml sleeve with bottle retaining clip
Needle Assembly	Body, process / vent needle
	Process / vent needle ID: 0.06" (1.5 mm)
Sampling Valve	Piston valve
	PTFE packing
Nitrogen Branch	Including pressure regulating valve, check valve, pressure gauge and needle valve
	Max working pressure of pressure regulating valve: 300 psig (20.7 bar)
	Pressure regulating range: 10 psig to 100 psig (0.7 bar to 7 bar)
Operation	Manual
	CO series check valve, ND series needle valve
Connections	Process connection: NPS 1/2 flange
	Vent and nitrogen connection: 1/4" tube fitting



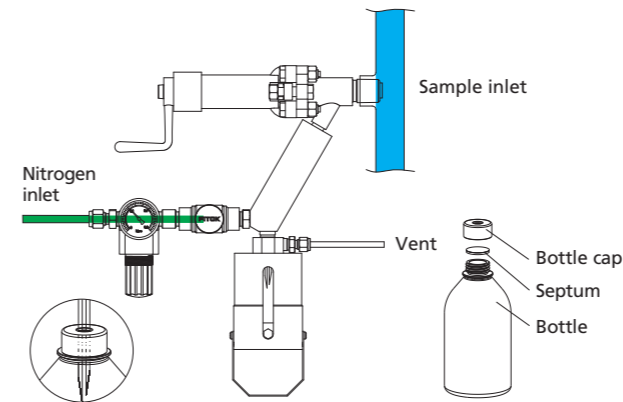
Remarks: The above is a basic specification only, other specifications are available upon requests. If you need other detailed information please contact FITOK group or authorized agent.

Accessories and Options

- Solvent cleaning
- Heating / Cooling
- Various materials
- Diverse connection types and sizes
- Protective enclosure
- Vent outlet carbon absorption

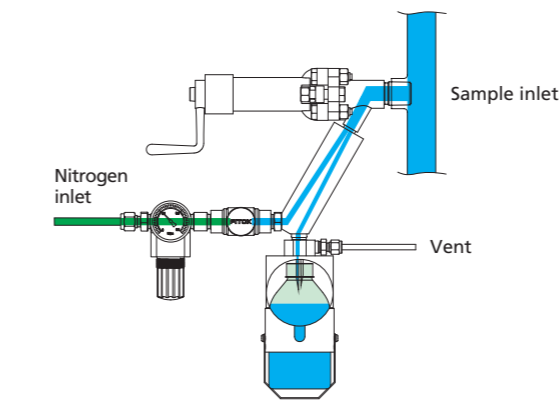


Operations



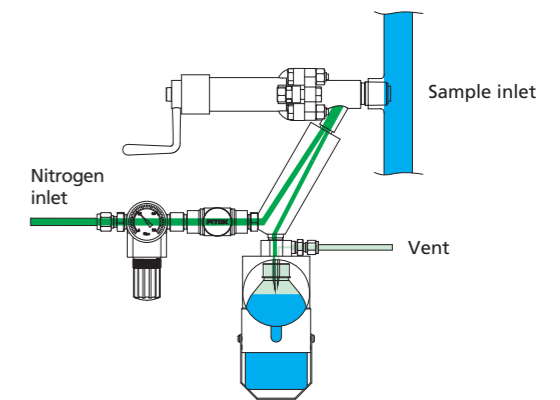
1-off

Place a new septum on the sample bottle, insert the bottle with cap and septum into the sleeve until the septum is pierced by the needles. Adjust the bottle to a suitable height and then buckle up the bottle retaining clip.



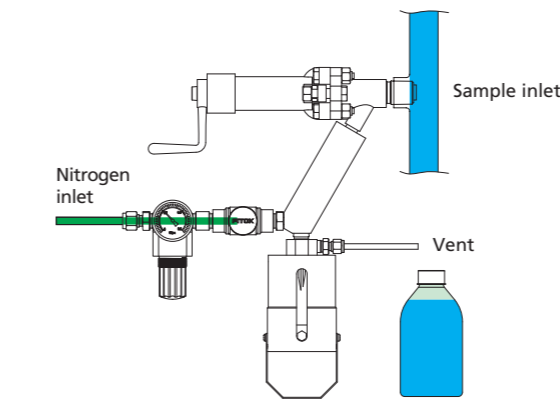
2-air replaced

Turn on the needle valve, allowing nitrogen gas to replace the air in the sample bottle to ensure representative sample, then turn off the needle valve.



3-sampling

Turn the handle of the sampling valve counterclockwise to open the sampling valve, allowing sample to flow into the sample bottle until the required amount has been taken, turn off the sampling valve.



4-system purge

Turn on the needle valve, allowing nitrogen gas to flow through the sampler to ensure any residual liquid is forced into the sample bottle.

5-off

Turn off the needle valve, remove the bottle retaining clip and pull the bottle out from the sleeve, the septum reseals automatically. the sampling process is complete.

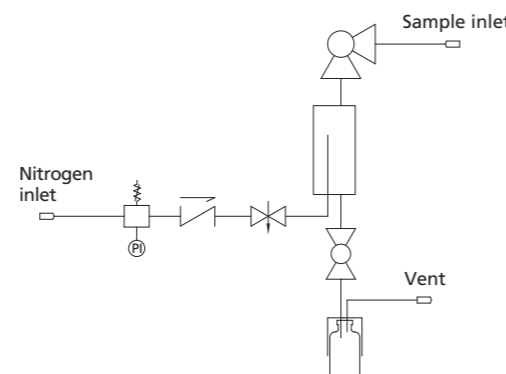
SBLC2-Fixed Volume, Air Replaced and System Purge Configuration

Features

- ⦿ Sampling directly from process or system
- ⦿ Pressure range: 0 to 1450 psig (0 to 100 bar)
- ⦿ Closed sampling
- ⦿ Bottle air replaced
- ⦿ Fixed volume
- ⦿ Representative sample
- ⦿ Suitable for high viscous liquid
- ⦿ System purge

Technical Specifications and Basic Configuration

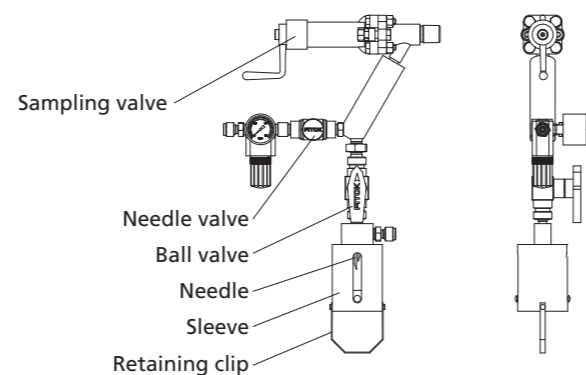
Material	316 SS
Sleeve	300 ml sleeve with bottle retaining clip
Needle Assembly	Body, process / vent needle
	Process / vent needle ID: 0.06" (1.5 mm)
Sampling Valve	Piston valve
	PTFE packing
Nitrogen Branch	Including pressure regulating valve, check valve, pressure gauge and needle valve
	Max working pressure of pressure regulating valve: 300 psig (20.7 bar)
	Pressure regulating range: 10 psig to 100 psig (0.7 bar to 7 bar)
Ball Valve	CO series check valve, ND series needle valve
	BF series 2-way ball valve
	PTFE seat, FKM O-ring
Operation	Max working pressure: 1500 psig (103 bar)
	Temperature range: 0°F to 450°F (-18°C to 232°C)
	Manual
Connections	Process connection: 1/2 male NPT
	Vent and nitrogen connection: 1/4" tube fitting
Other	Sample chamber



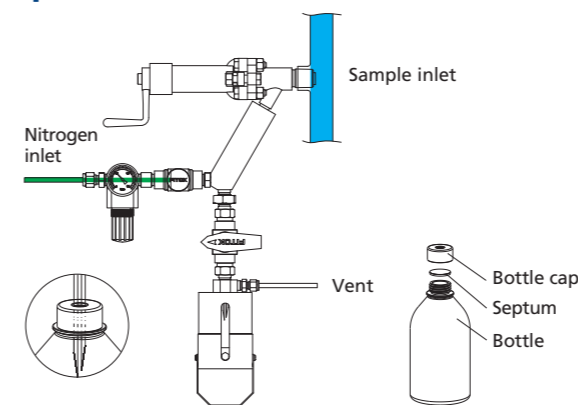
Remarks: The above is a basic specification only, other specifications are available upon requests. If you need other detailed information please contact FITOK group or authorized agent.

Accessories and Options

- ⦿ Solvent cleaning
- ⦿ Heating / Cooling
- ⦿ Various materials
- ⦿ Diverse connection types and sizes
- ⦿ Protective enclosure
- ⦿ Vent outlet carbon absorption

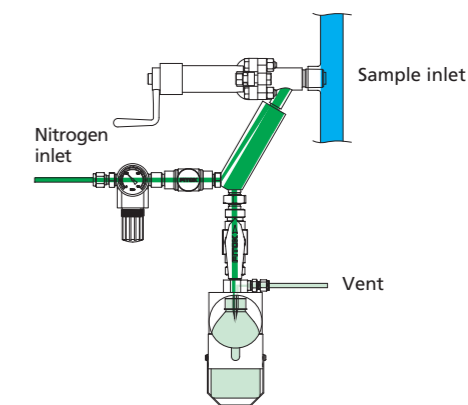


Operations



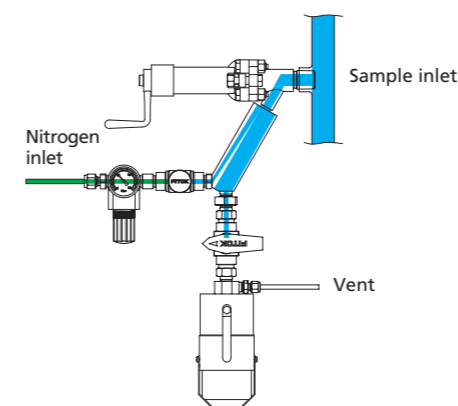
1-off

Place a new septum on the sample bottle, insert the bottle with cap and septum into the sleeve until the septum is pierced by the needles. Adjust the bottle to a suitable height and then buckle up the bottle retaining clip.



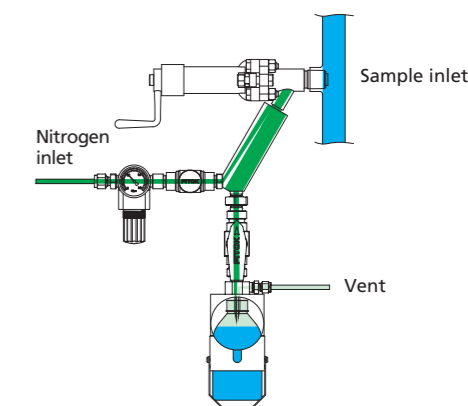
2-air replaced

Open the ball valve below the sample chamber and the needle valve in the nitrogen branch, allowing nitrogen gas to replace the air in the sample bottle, turn off the needle valve in the nitrogen branch after the replacement finished, then turn off the ball valve below the sample chamber.



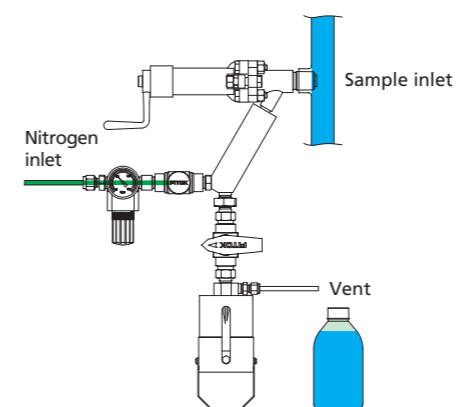
3-pre-sampling

Turn the handle of the sampling valve counterclockwise to open the sampling valve, allowing sample to flow into the sampling chamber, the fixed volume chamber determines the amount of sample, turn off the sampling valve after pre-sampling completed.



4-sampling

Turn on the ball valve below the sampling chamber, then open the needle valve in the nitrogen branch, allowing nitrogen gas to force the sample to flow into the bottle and purge the sampler.



5-off

Turn off the needle valve and ball valve, remove the bottle retaining clip and pull the bottle out from the sleeve, the septum reseals automatically. the sampling process is complete.

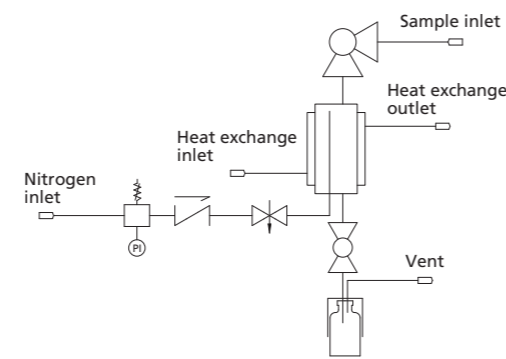
SBLC3-Heating/cooling, Fixed Volume, Air Replaced and System Purge Configuration

Features

- ⦿ Sampling directly from process or system
- ⦿ Pressure range: 0 to 1450 psig (0 to 100 bar)
- ⦿ Closed sampling
- ⦿ Bottle air replaced
- ⦿ Fixed volume
- ⦿ Representative sample
- ⦿ Suitable for high viscous liquid
- ⦿ Heating/Cooling jacket ensures sampling at the required temperature
- ⦿ System purge

Technical Specifications and Basic Configuration

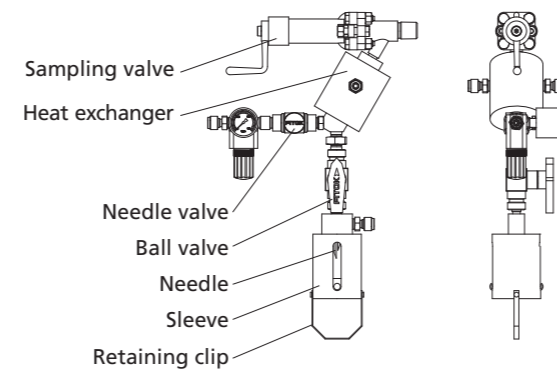
Material	316 SS
Sleeve	300 ml sleeve with bottle retaining clip
Needle Assembly	Body, process / vent needle
	Process / vent needle ID: 0.06" (1.5 mm)
Sampling Valve	Piston valve
	PTFE packing
Nitrogen Branch	Including pressure regulating valve, check valve, pressure gauge and needle valve
	Max working pressure of pressure regulating valve: 300 psig (20.7 bar)
	Pressure regulating range: 10 psig to 100 psig (0.7 bar to 7 bar)
	CO series check valve, ND series needle valve
Ball Valve	BF series 2-way ball valve
	PTFE seat, FKM O-ring
	Max working pressure: 1500 psig (103 bar)
Operation	Temperature range: 0°F to 450°F (-18°C to 232°C)
	Manual
Connections	process connection: 1/2" male NPT
	Vent and nitrogen connection: 1/4" tube fitting
	Heat exchange in/out connection: 1/2" tube fitting
Other	Sample chamber, Heat exchanger



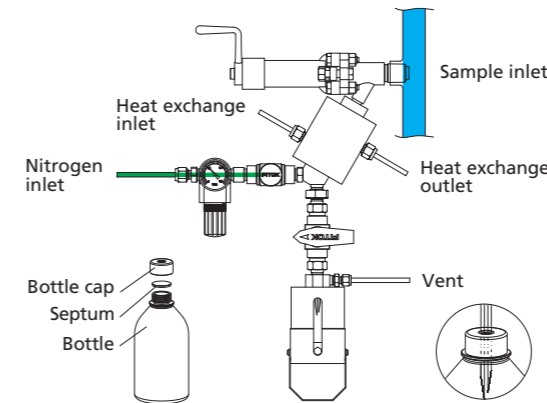
Remarks: The above is a basic specification only, other specifications are available upon requests. If you need other detailed information please contact FITOK group or authorized agent.

Accessories and Options

- ⦿ Solvent cleaning
- ⦿ Flow meter
- ⦿ Various materials
- ⦿ Diverse connection types and sizes
- ⦿ Protective enclosure
- ⦿ Vent outlet carbon absorption

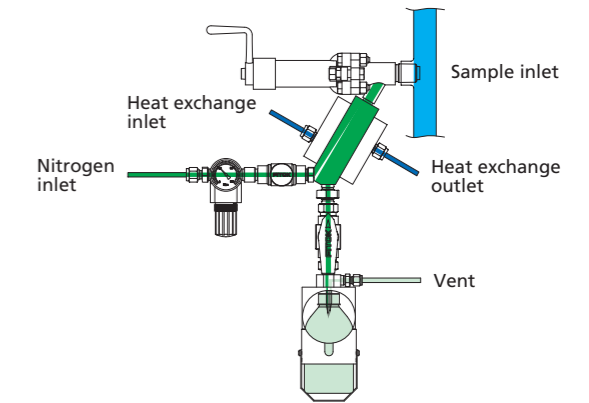


Operations



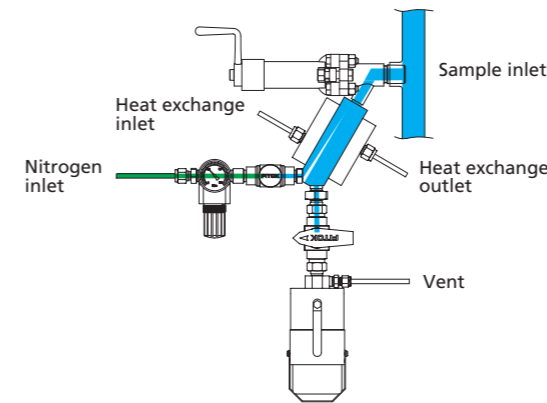
1-off

Place a new septum on the sample bottle, insert the bottle with cap and septum into the sleeve until the septum is pierced by the needles. Adjust the bottle to a suitable height and then buckle up the bottle retaining clip.



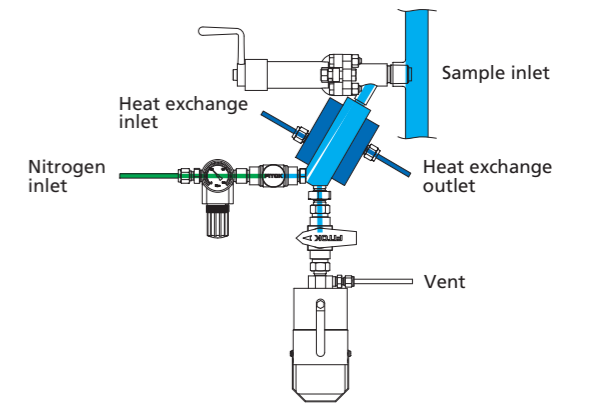
2-air replaced

Open the ball valve below the sample chamber and the needle valve in the purge line, allowing nitrogen gas replace the air in the sample bottle, turn off the needle valve in the purge line after the replacement finished, then turn off the ball valve below the sample chamber.



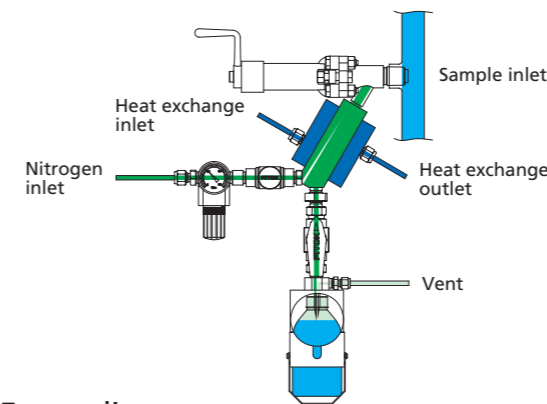
3-pre-sampling

Turn the handle of the sampling valve counterclockwise to open the sampling valve, allowing sample to flow into the sampling chamber, the fixed volume chamber determines the amount of sample, turn off the sampling valve after pre-sampling completed.



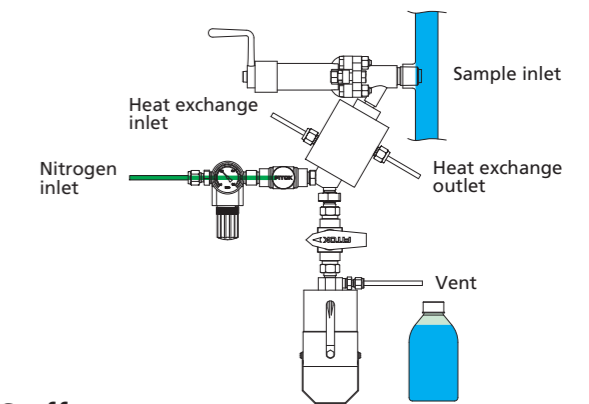
4-heat exchange

Allow a heating fluid to flow through the heat jacket until the sample temperature meets the required temperature.



5-sampling

Turn on the ball valve below the sampling chamber, allowing sample to flow into the bottle, then open the needle valve in the nitrogen branch, allowing nitrogen gas to force the sample to flow into the bottle and purge the sampler.



6-off

Turn off the needle valve and ball valve, remove the bottle retaining clip and pull the bottle out from the sleeve, the septum reseals automatically. the sampling process is complete.

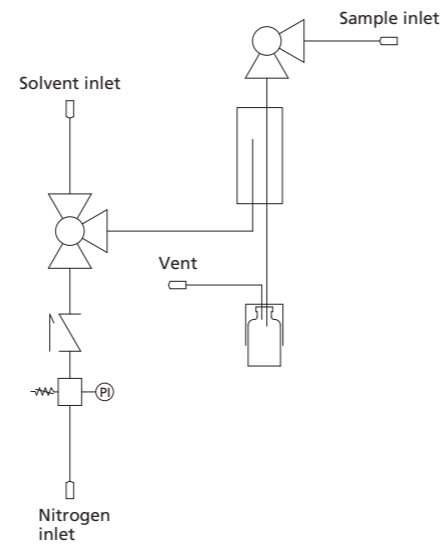
SBLC4-Solvent Purge, Air Replaced and System Purge Configuration

Features

- Sampling directly from process or system
- Pressure range: 0 to 145 psig (0 to 10 bar)
- Closed sampling
- Bottle air replaced and solvent purge
- Representative sample
- Suitable for high viscous liquid
- Solvent purge and system purge function

Technical Specifications and Basic Configuration

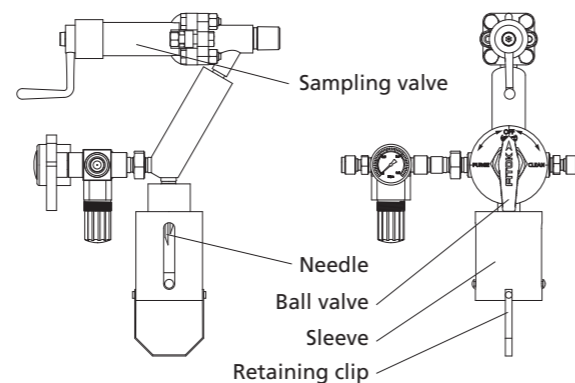
Material	316 SS
Sleeve	300 ml sleeve with bottle retaining clip
Needle Assembly	Body, process / vent needle
	Process / vent needle ID: 0.06" (1.5 mm)
Sampling Valve	Piston valve
	PTFE packing
Nitrogen Branch	Including pressure regulating valve, check valve and pressure gauge
	Max working pressure of pressure regulating valve: 300 psig (20.7 bar)
	Pressure regulating range: 10 psig to 100 psig (0.7 bar to 7 bar)
Ball Valve	CO series check valve
	BF series 3-way ball valve
	PTFE seat, FKM O-ring
Operation	Max working pressure: 1500 psig (103 bar)
	Temperature range: 0°F to 450°F (-18°C to 232°C)
Connections	Process connection: 1/2 male NPT
	Vent / nitrogen / solvent inlet: 1/4" tube fitting



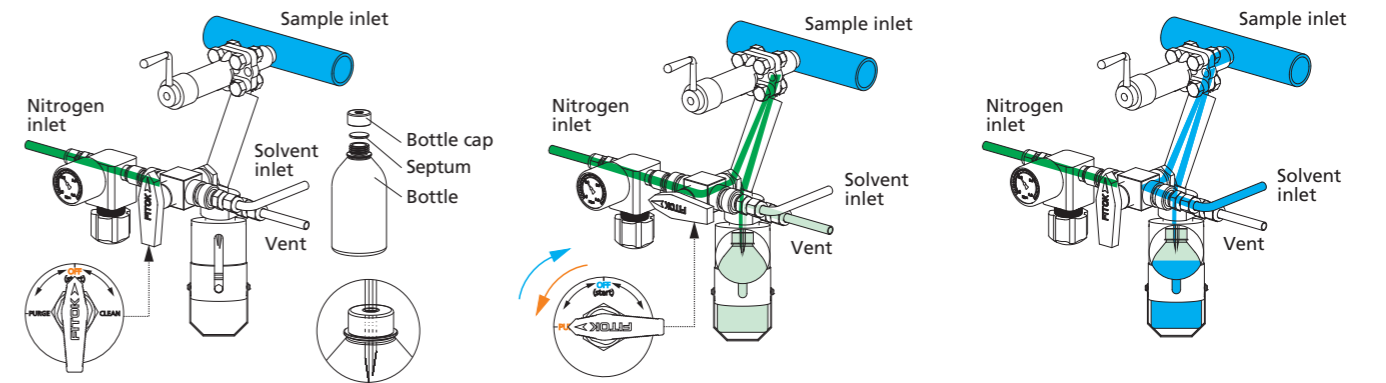
Remarks: The above is a basic specification only, other specifications are available upon requests. If you need other detailed information please contact FITOK group or authorized agent.

Accessories and Options

- Heating / Cooling
- Protective enclosure
- Vent outlet carbon absorption
- Diverse connection types and sizes
- Various materials

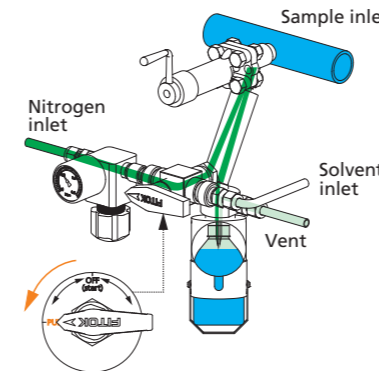


Operations



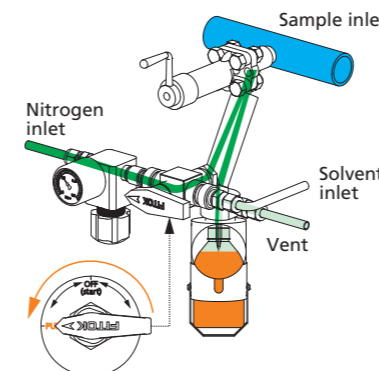
1-off

Place a new septum on the sample bottle, insert the bottle with cap and septum into the sleeve until the septum is pierced by the needles. Adjust the bottle to a suitable height and then buckle up the bottle retaining clip.



4-system purge

Turn the handle of the ball valve to "PURGE" position, allowing nitrogen gas to force any residual liquid into the sample bottle.

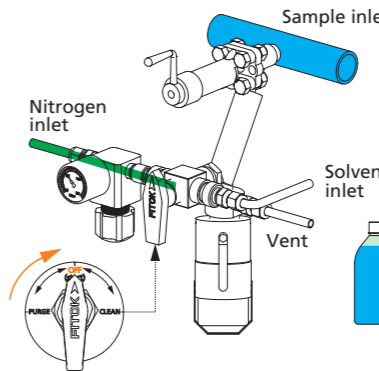


7-system purge

Turn the handle of the ball valve to "PURGE" position, allowing nitrogen gas to force any residual solvent into the sample bottle.

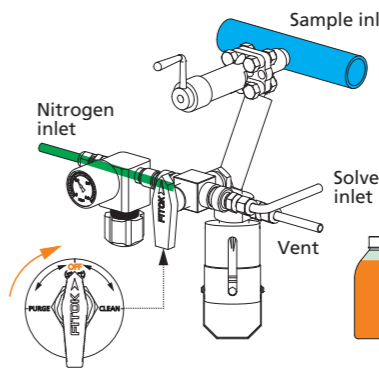
2-air replaced

Turn the handle of the ball valve to "PURGE" position, allowing nitrogen gas to replace the air in the sample bottle, turn the handle of the ball valve to "OFF" position when the replacement finished.



5-off

Turn the handle of the ball valve to "OFF" position, remove the bottle retaining clip and pull the bottle out from the sleeve, the septum reseals automatically. Place a new the sample bottle.

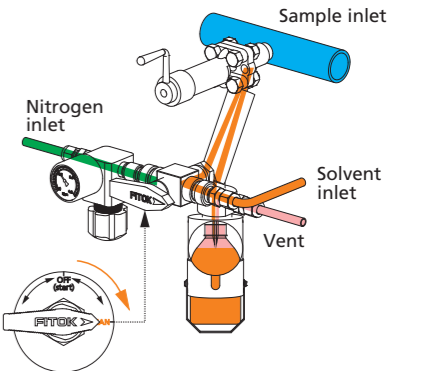


8-off

Turn the handle of the ball valve to "OFF" position, remove the bottle retaining clip and pull the bottle out from the sleeve, the septum reseals automatically.

3-sampling

Turn the handle of the sampling valve counterclockwise to open the sampling valve, allowing sample to flow into the sample bottle until the required amount has been taken, turn off the sampling valve.



6-solvent purge

Turn the handle of the ball valve to "CLEAN" position, allowing the solvent to flow into the sample bottle.

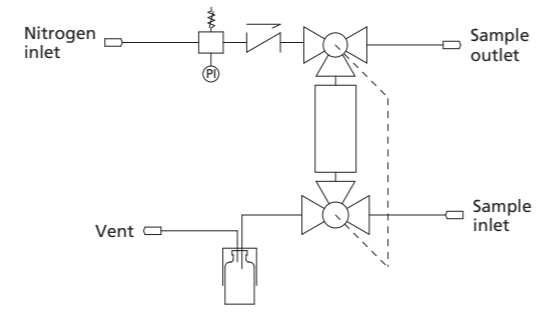
SBLD1-Fixed Volume, Circulation and System Purge Configuration

Features

- Sampling directly from process or system
- Pressure range: 0 to 1450 psig (0 to 100 bar)
- Closed sampling
- Fixed volume
- Sample circulation
- System purge
- Representative sample
- Linkage ball valve design, easy operation

Technical Specifications and Basic Configuration

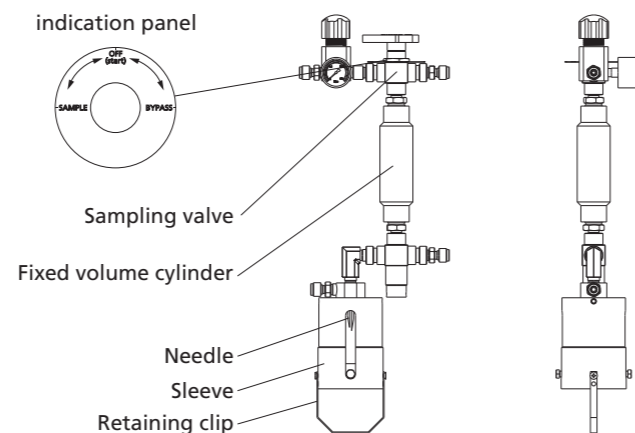
Material	316 SS
Sleeve	300 ml sleeve with bottle retaining clip
Needle Assembly	Body, process / vent needle
	Process / vent needle ID: 0.06" (1.5 mm)
Sampling Valve	BF Series linkage ball valve (Rod linkage)
	PTFE seat, FKM O-ring
	Max working pressure: 1500 psig (103 bar)
	Temperature range: 0°F to 450°F (-18°C to 232°C)
Nitrogen Branch	Including pressure regulating valve, check valve and pressure gauge
	Max working pressure of pressure regulating valve: 300 psig (20.7 bar)
	Pressure regulating range: 10 psig to 100 psig (0.7 bar to 7 bar)
	CO series check valve
Operation	Manual
Connections	1/4" tube fitting
Other	Fixed volume cylinder



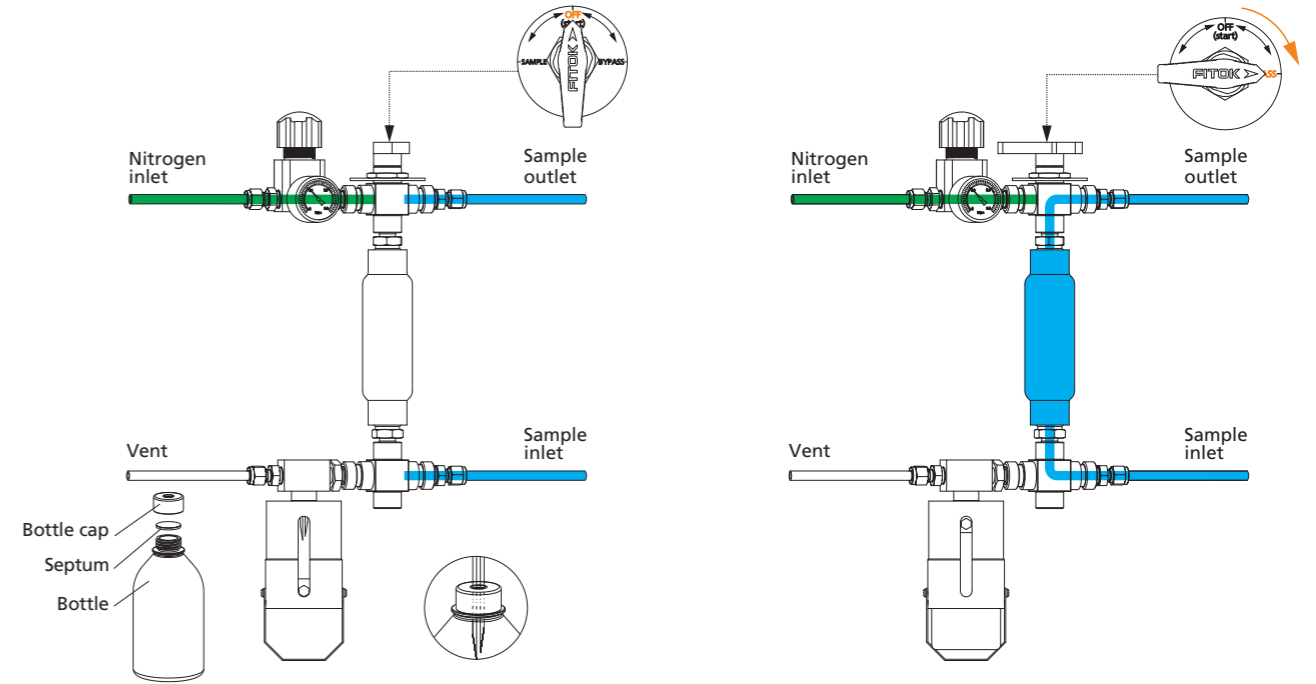
Remarks: The above is a basic specification only, other specifications are available upon requests. If you need other detailed information please contact FITOK group or authorized agent.

Accessories and Options

- Lockable handle
- Mounting plate
- Protective enclosure
- Vent outlet carbon absorption
- Mounting bracket
- Diverse connection types and sizes
- Various materials
- Diverse orifice sizes

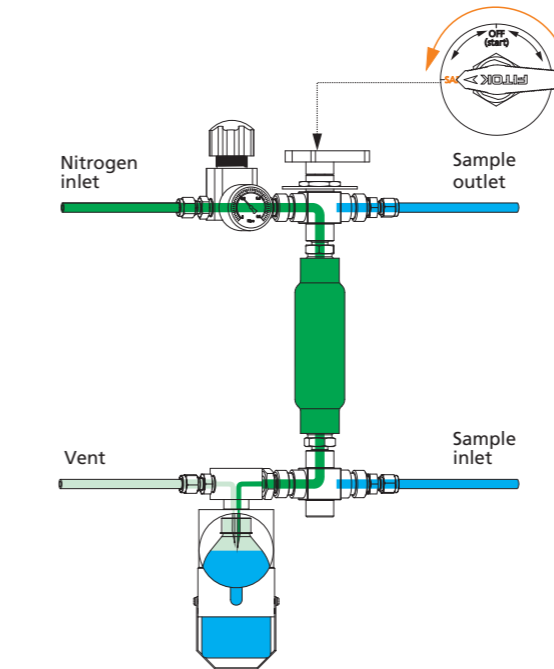


Operations



1-off

Place a new septum on the sample bottle, insert the bottle with cap and septum into the sleeve until the septum is pierced by the needles. Adjust the bottle to a suitable height and then buckle up the bottle retaining clip.

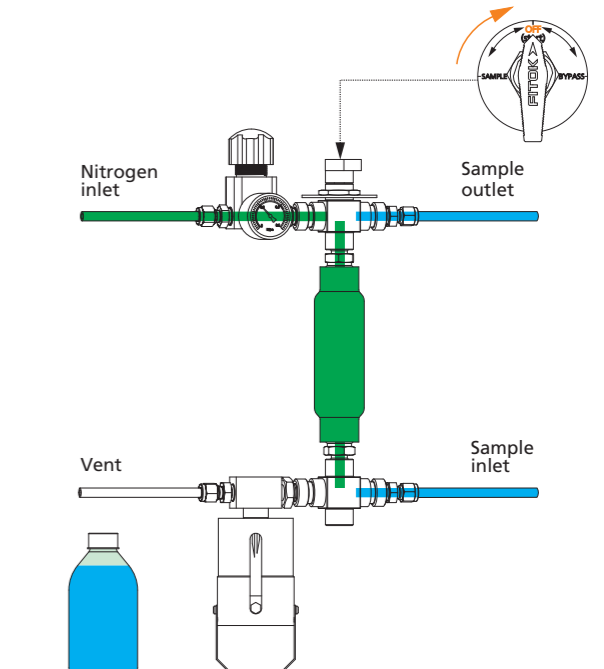


3-sampling

Turn the sampling valve handle to the "SAMPLE" position, allowing nitrogen gas to force the sample to flow into the bottle and to purge the sampler.

2-Circulation

Turn the sampling valve handle to "BYPASS" position, allowing sample to fill the fixed volume cylinder, persist for a period of time to allow residual sample in the sampler to flow into the process line to ensure representative sampling.



4-off

Turn the sampling valve handle to the "OFF" position, remove the bottle retaining clip and pull the bottle out from the sleeve, the septum reseals automatically. the sampling process is complete.

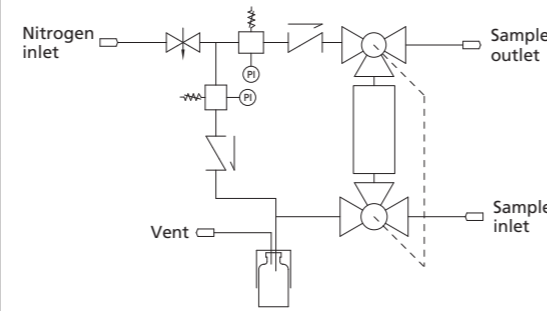
SBLD2-Fixed Volume, Circulation, Air Replaced and System Purge Configuration

Features

- Sampling directly from process or system
- Pressure range: 0 to 1450 psig (0 to 100 bar)
- Closed sampling
- Fixed volume
- Bottle air replaced
- System purge
- Representative sample
- Linkage ball valve design, easy operation
- Sample circulation

Technical Specifications and Basic Configuration

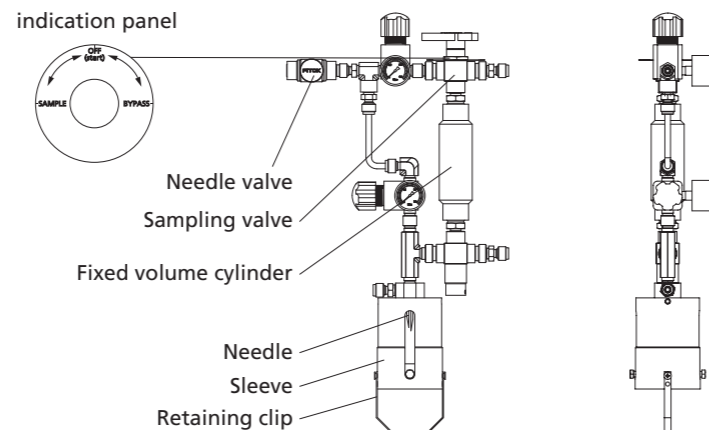
Material	316 SS
Sleeve	300 ml sleeve with bottle retaining clip
Needle Assembly	Body, process / vent needle
	Process / vent needle ID: 0.06" (1.5 mm)
Sampling Valve	BF Series linkage ball valve (Rod linkage)
	PTFE seat, FKM O-ring
	Max working pressure: 1500 psig (103 bar)
Nitrogen Branch	Temperature range: 0°F to 450°F (-18°C to 232°C)
	Including pressure regulating valve, check valve and pressure gauge and needle valve
	Max working pressure of pressure regulating valve: 300 psig (20.7 bar)
	Pressure regulating range: 10 psig to 100 psig (0.7 bar to 7 bar)
Operation	Manual
	Connections
Other	Fixed volume cylinder



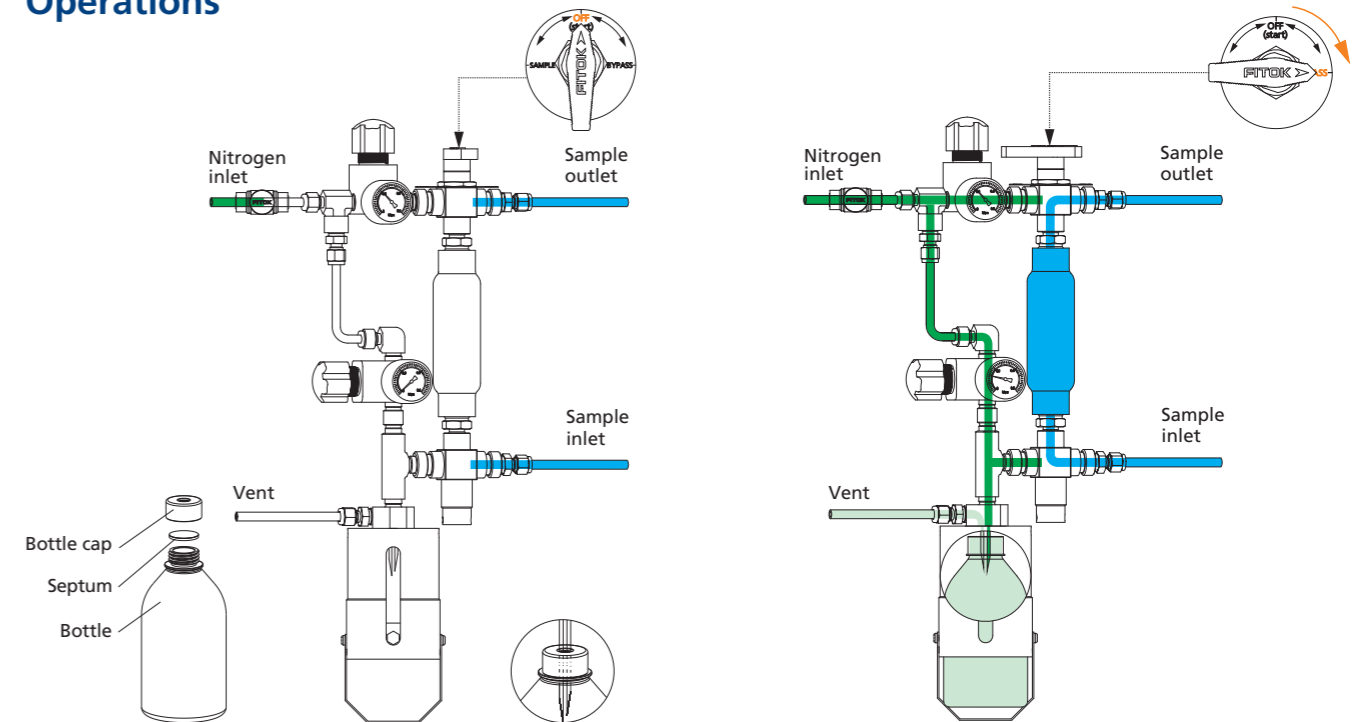
Remarks: The above is a basic specification only, other specifications are available upon requests. If you need other detailed information please contact FITOK group or authorized agent.

Accessories and Options

- Lockable handle
- Mounting plate
- Protective enclosure
- Vent outlet carbon absorption
- Mounting bracket
- Diverse connection types and sizes
- Various materials

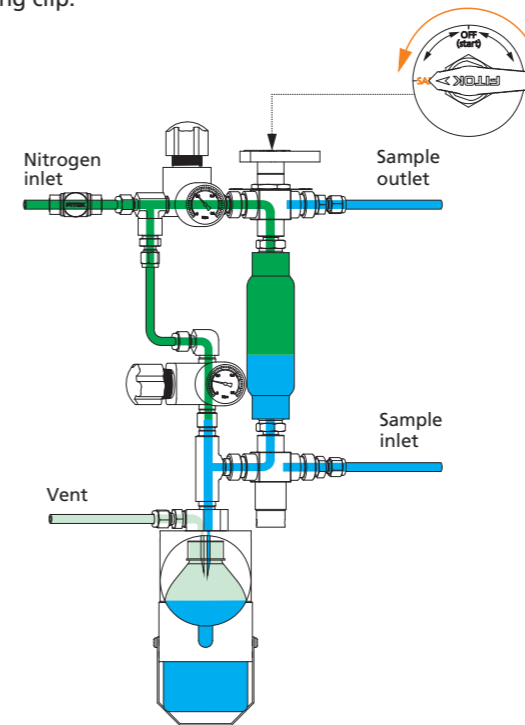


Operations



1-off

Place a new septum on the sample bottle, insert the bottle with cap and septum into the sleeve until the septum is pierced by the needles. Adjust the bottle to a suitable height and then buckle up the bottle retaining clip.

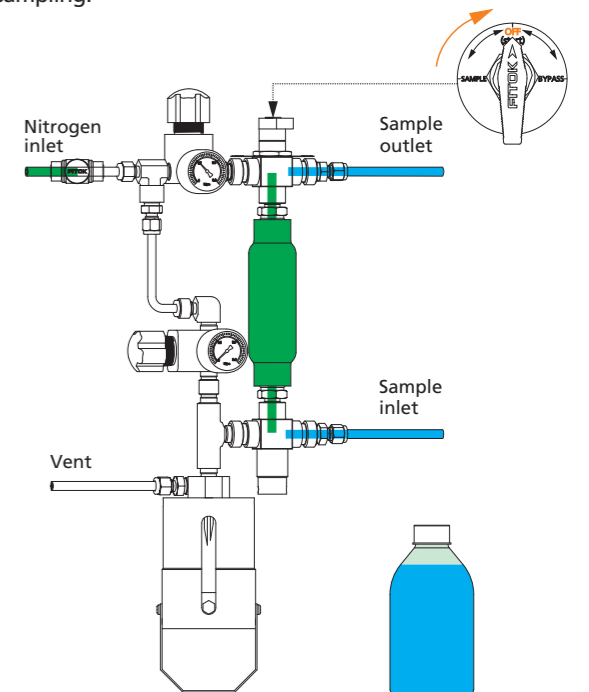


3-sampling

Turn the sampling valve handle to the "SAMPLE" position, allowing nitrogen gas to force the sample to flow into the bottle and to purge the sampler.

2-fixed volume, circulation and air replaced

Turn the sampling valve handle to "BYPASS" position, allowing sample to fill the fixed volume cylinder, persist for a certain period to allow residual sample to flow into the process line, open the needle valve, allowing nitrogen gas to replace the air in the sample bottle, to ensure representative sampling.



4-off

Turn the sampling valve handle to the "OFF" position, remove the bottle retaining clip and pull the bottle out from the sleeve, the septum reseals automatically. the sampling process is complete.

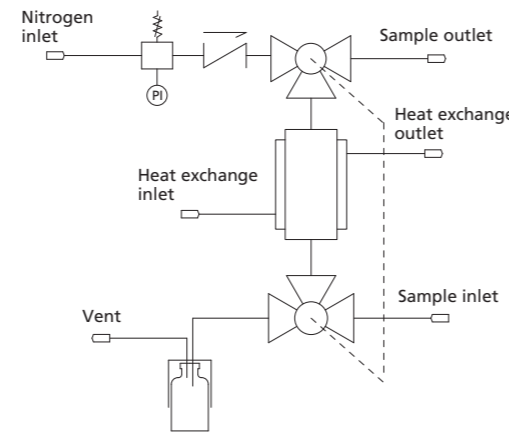
SBLD3-Heating/Cooling, Circulation, Fixed Volume and System Purge Configuration

Features

- Sampling directly from process or system
- Pressure range: 0 to 1450 psig (0 to 100 bar)
- Closed sampling
- Fixed volume
- Sample circulation
- System purge
- Representative sample
- Heating/Cooling jacket ensures sampling at the required temperature
- Linkage ball valve design, easy operation

Technical Specifications and Basic Configuration

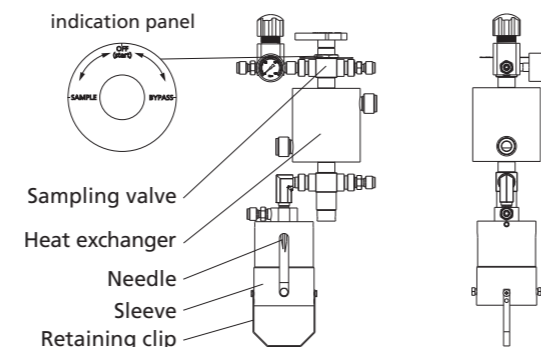
Material	316 SS
Sleeve	300 ml sleeve with bottle retaining clip
Needle Assembly	Body, process / vent needle
	Process / vent needle ID: 0.06" (1.5 mm)
Sampling Valve	BF Series linkage ball valve (Rod linkage)
	PTFE seat, FKM O-ring
	Max working pressure: 1500 psig (103 bar)
Nitrogen Branch	Temperature range: 0°F to 450°F (-18°C to 232°C)
	Including pressure regulating valve, check valve and pressure gauge
	Max working pressure of pressure regulating valve: 300 psig (20.7 bar)
	Pressure regulating range: 10 psig to 100 psig (0.7 bar to 7 bar)
	CO series check valve
Operation	Manual
Connections	Process/vent/nitrogen: 1/4" tube fitting
	Heat exchange connection: 1/2" tube fitting
Other	Heat exchanger, fixed volume cylinder



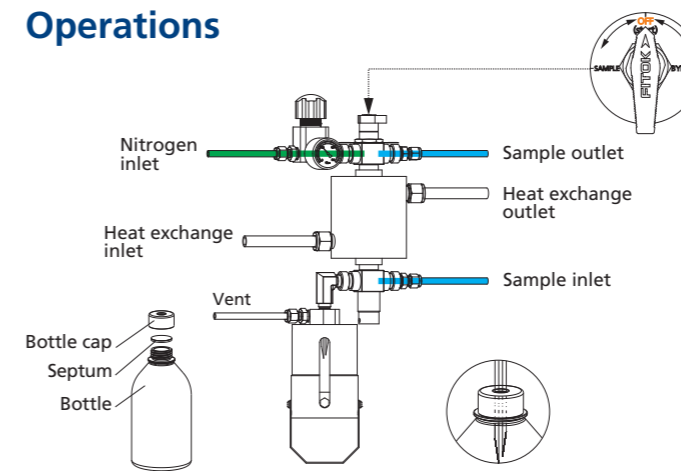
Remarks: The above is a basic specification only, other specifications are available upon requests. If you need other detailed information please contact FITOK group or authorized agent.

Accessories and Options

- Lockable handle
- Mounting plate
- Protective enclosure
- Vent outlet carbon absorption
- Mounting bracket
- Diverse connection types and sizes
- Various materials

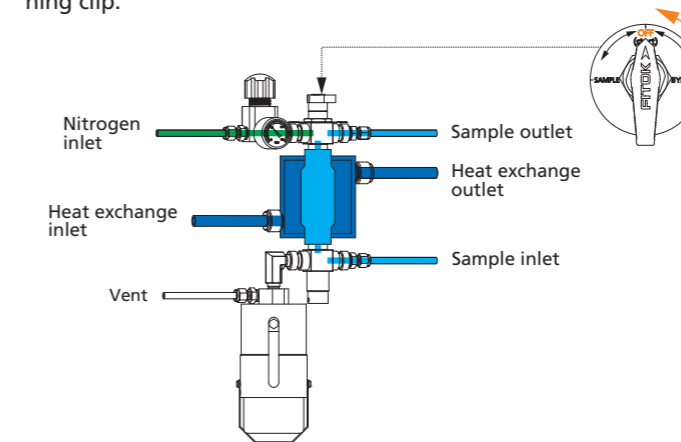


Operations



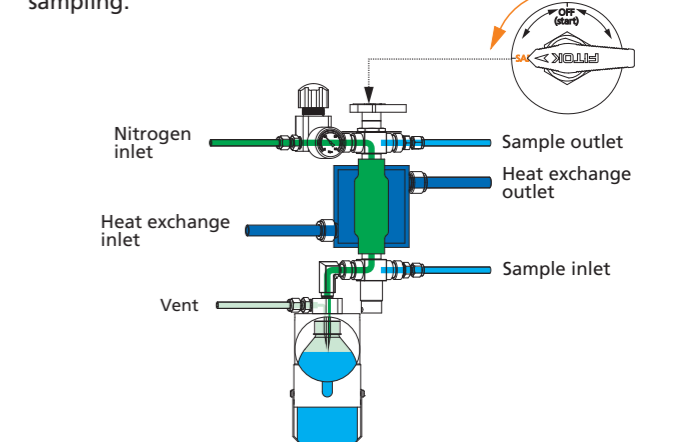
1-off

Place a new septum on the sample bottle, insert the bottle with cap and septum into the sleeve until the septum is pierced by the needles. Adjust the bottle to a suitable height and then buckle up the bottle retaining clip.



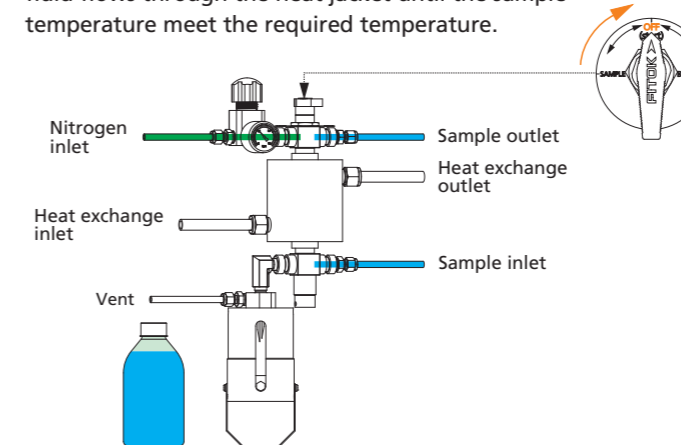
2-circulation and fixed volume

Turn the sampling valve handle to "BYPASS" position, allowing sample to fill the fixed volume cylinder, persist for a period of time to allow residual sample in the sampler to flow into the process line to ensure representative sampling.



3-heat exchange

Turn the handle to "OFF" position, allow a heating fluid flows through the heat jacket until the sample temperature meet the required temperature.



4-sampling

Turn the sampling valve handle to the "SAMPLE" position, allowing nitrogen gas to force the sample to flow into the bottle and to purge the sampler.

5-off

Turn the sampling valve handle to "OFF" position, remove the bottle retaining clip and pull the bottle out from the sleeve, the septum reseals automatically. the sampling process is complete.

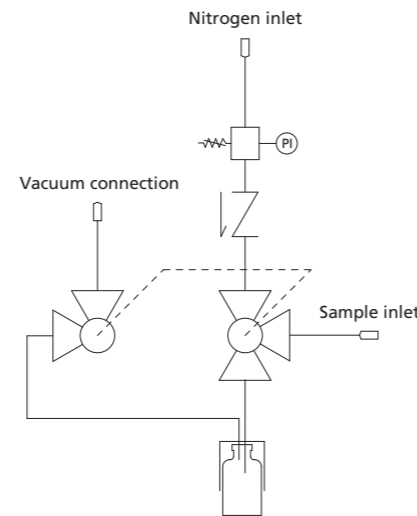
SBLE1-Back Flow and Vacuum Configuration

Features

- Sampling directly from process or system
- Applicable for zero-pressure or vacuum process
- Closed sampling
- Back flow
- Representative sample
- Linkage ball valve design, easy operation

Technical Specifications and Basic Configuration

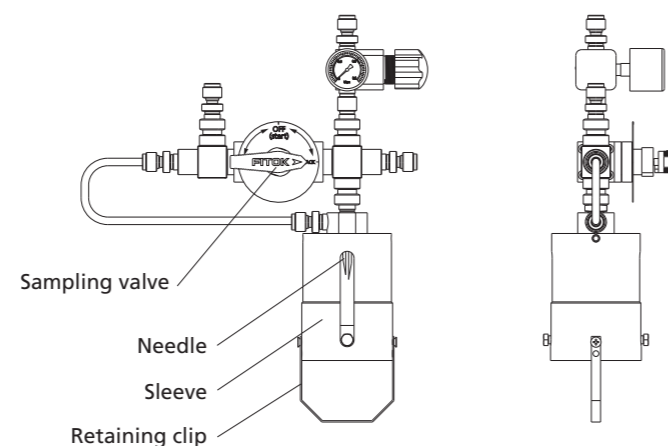
Material	316 SS
Sleeve	300 ml sleeve with bottle retaining clip
Needle Assembly	Body, process / vent needle
	Process / vent needle ID: 0.06" (1.5 mm)
Sampling Valve	BF Series linkage ball valve (Gearbox linkage)
	PTFE seat, FKM O-ring
	Max working pressure: 1500 psig (103 bar)
	Temperature range: 0°F to 450°F (-18°C to 232°C)
Nitrogen Branch	Including pressure regulating valve, check valve and pressure gauge
	Max working pressure of pressure regulating valve: 300 psig (20.7 bar)
	Pressure regulating range: 10 psig to 100 psig (0.7 bar to 7 bar)
	CO series check valve
Operation	Manual
Connections	1/4" tube fitting



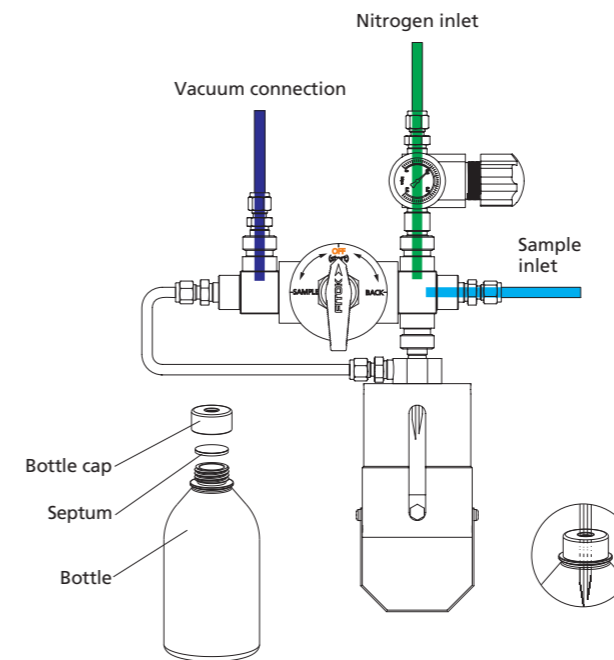
Remarks: The above is a basic specification only, other specifications are available upon requests. If you need other detailed information please contact FITOK group or authorized agent.

Accessories and Options

- Lockable handle
- Mounting plate
- Protective enclosure
- Vent outlet carbon absorption
- Mounting bracket
- Diverse connection types and sizes
- Various materials

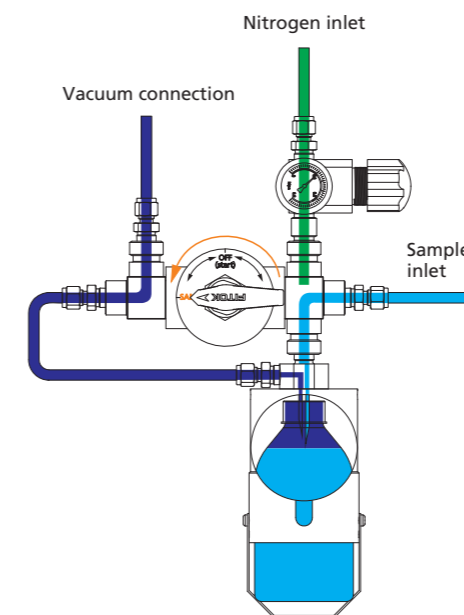


Operations



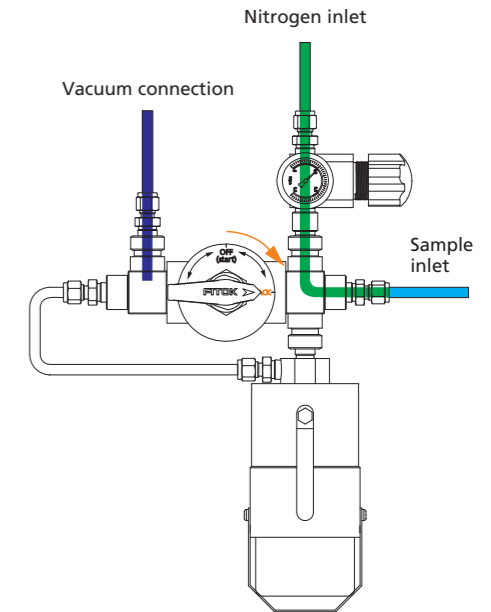
1-off

Place a new septum on the sample bottle, insert the bottle with cap and septum into the sleeve until the septum is pierced by the needles. Adjust the bottle to a suitable height and then buckle up the bottle retaining clip.



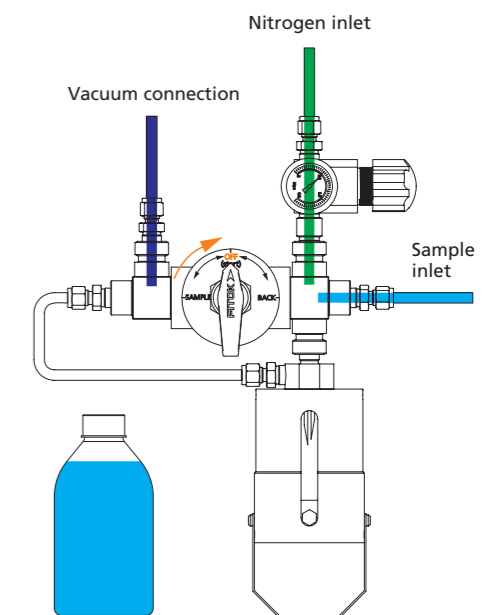
3-sampling

Turn the sampling valve handle to "BACK" position, allowing nitrogen gas to flow through the sampler to force any residual sample into the process line to ensure representative sampling.



2-back flow

Turn the sampling valve handle to "BACK" position, allowing nitrogen gas to flow through the sampler to force any residual sample into the process line to ensure representative sampling.



4-off

Turn the sampling valve handle to "OFF" position. Remove the bottle retaining clip and pull the bottle out from the sleeve, the septum reseals automatically. the sampling process is complete.

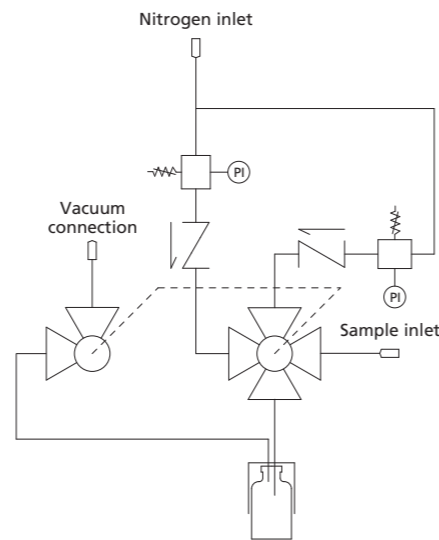
SBLE2-Back Flow, Air Replaced, Vacuum and System Purge Configuration

Features

- Sampling directly from process or system
- Applicable for zero-pressure or vacuum process
- Closed sampling
- Back flow and bottle air replaced
- Representative sample
- Linkage ball valve design, easy operation
- System purge

Technical Specifications and Basic Configuration

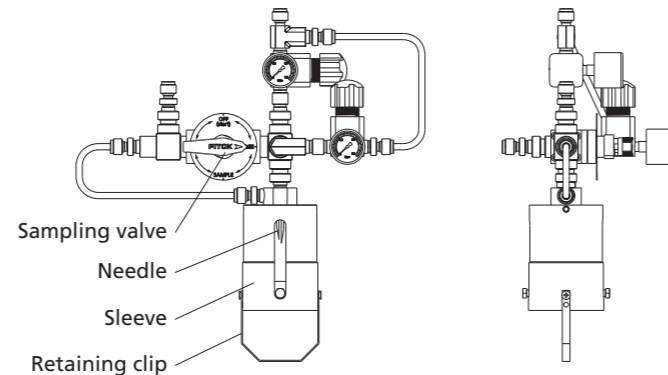
Material	316 SS
Sleeve	300l sleeve with bottle retaining clip
Needle Assembly	Body, process / vent needle
	Process / vent needle ID: 0.06" (1.5 mm)
Sampling Valve	BF/BO Series linkage ball valve (Gearbox linkage)
	PTFE seat
	Max. working pressure: 1500 psig (103 bar)
	Temperature range: 0°F to 300°F (-18°C to 148°C)
Nitrogen Branch	Including pressure regulating valve, check valve and pressure gauge
	Max working pressure of pressure regulating valve: 300 psig (20.7 bar)
	Pressure regulating range: 10 psig to 100 psig (0.7 bar to 7 bar)
	CO series check valve
Operation	Manual
Connections	1/4" tube fitting



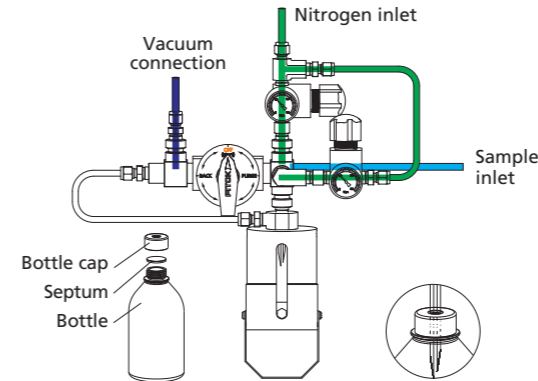
Remarks: The above is a basic specification only, other specifications are available upon requests. If you need other detailed information please contact FITOK group or authorized agent.

Accessories and Options

- Lockable handle
- Mounting plate
- Protective enclosure
- Vent outlet carbon absorption
- Mounting bracket
- Diverse connection types and sizes
- Various materials

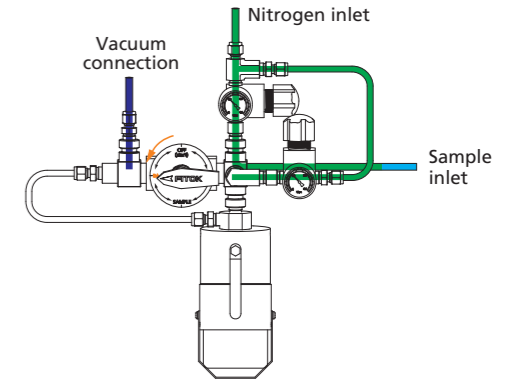


Operations



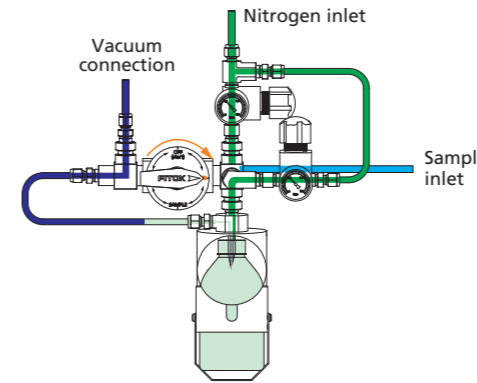
1-off

Place a new septum on the sample bottle, insert the bottle with cap and septum into the sleeve until the septum is pierced by the needles. Adjust the bottle to a suitable height and then buckle up the bottle retaining clip.



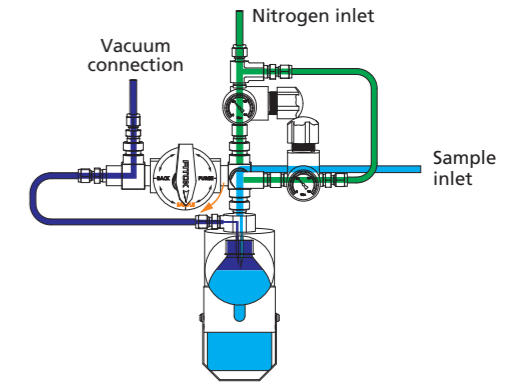
2-air replaced

Turn the sampling valve handle to "BACK" position, allowing nitrogen gas to replace the air in the sample bottle to ensure representative sample.



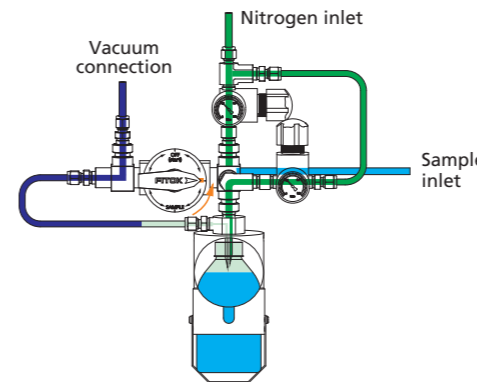
3-back flow

Turn the handle of the sampling valve to "BACK" position, allowing nitrogen gas to flow through the sampler to force any residual sample into the process line to ensure representative sampling.



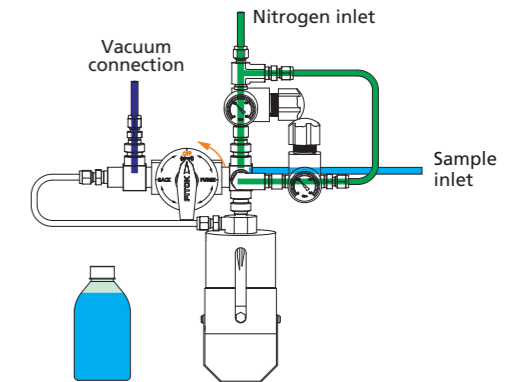
4-sampling

Turn the sampling valve handle to "SAMPLE" position to connect the needle assembly outlet and vacuum source, so as to create low vacuum condition in the bottle, and let the sample flow into the bottle until the required amount is taken.



5-system purge

Turn the sampling valve handle to "PURGE" position, allowing nitrogen gas to flow through the sampler to ensure any residual liquid is forced into the sample bottle.



6-off

Turn the sampling valve handle to "OFF" position. Remove the bottle retaining clip and pull the bottle out from the sleeve, the septum reseals automatically. the sampling process is complete.

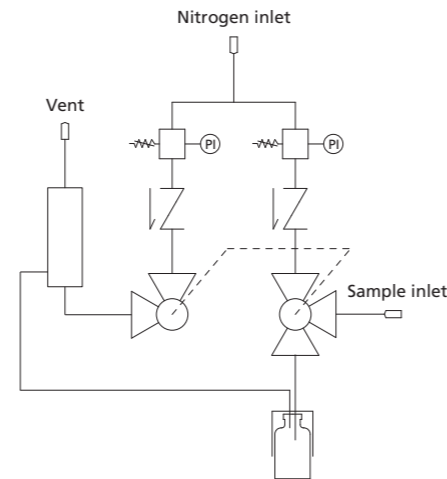
SBLE3-Back Flow and Venturi Configuration

Features

- Sampling directly from process or system
- Applicable for zero-pressure or vacuum process
- Closed sampling
- Back flow
- Representative sample
- Linkage ball valve design, easy operation

Technical Specifications and Basic Configuration

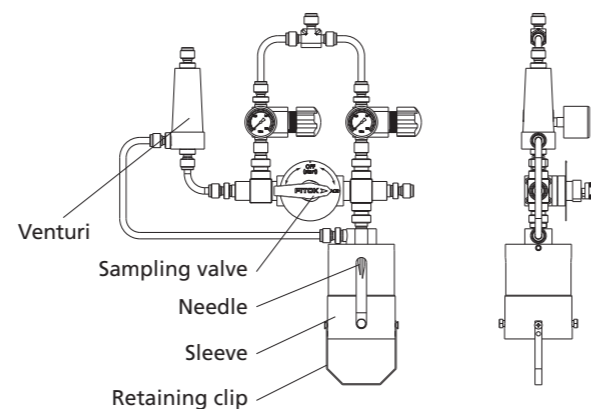
Material	316 SS
Sleeve	300 ml sleeve with bottle retaining clip
Needle Assembly	Body, process / vent needle
	Process / vent needle ID: 0.06" (1.5 mm)
Sampling Valve	BF Series linkage ball valve (Gearbox linkage)
	PTFE seat, FKM O-ring
	Max working pressure: 1500 psig (103 bar)
	Temperature range: 0°F to 450°F (-18°C to 232°C)
Nitrogen Branch	Including pressure regulating valve, check valve and pressure gauge
	Max working pressure of pressure regulating valve: 300 psig (20.7 bar)
	Pressure regulating range: 10 psig to 100 psig (0.7 bar to 7 bar)
	CO series check valve
Venturi	Allowing a vacuum to be created in the outlet, resulting in pressure difference between sampler inlet and vent, so that the liquid can flow into the sampler
Operation	Manual
Connections	1/4" tube fitting



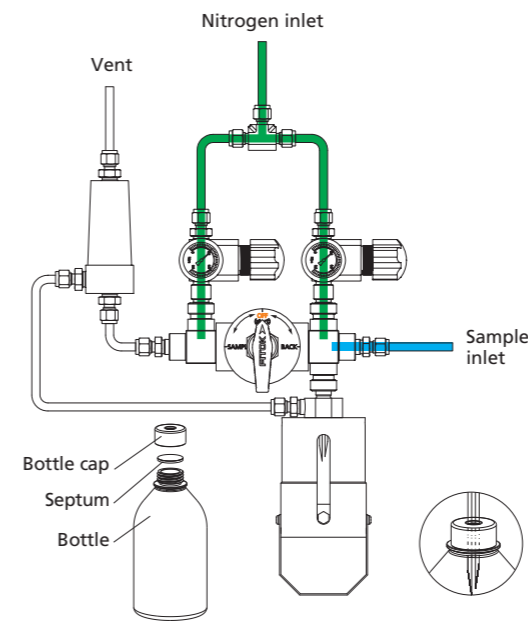
Remarks: The above is a basic specification only, other specifications are available upon requests. If you need other detailed information please contact FITOK group or authorized agent.

Accessories and Options

- Lockable handle
- Mounting plate
- Protective enclosure
- Vent outlet carbon absorption
- Mounting bracket
- Diverse connection types and sizes
- Various materials

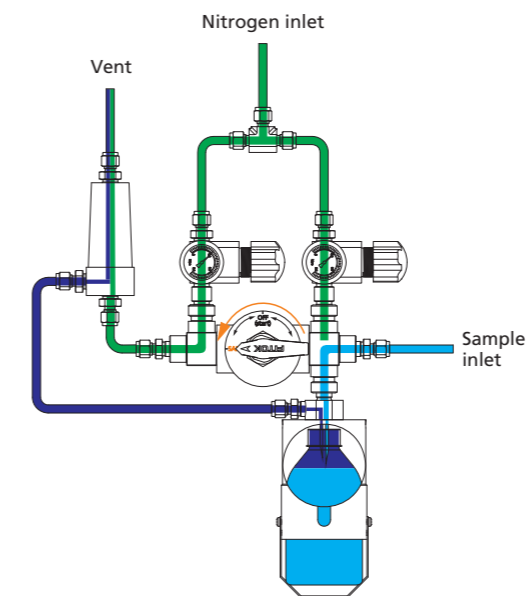


Operations



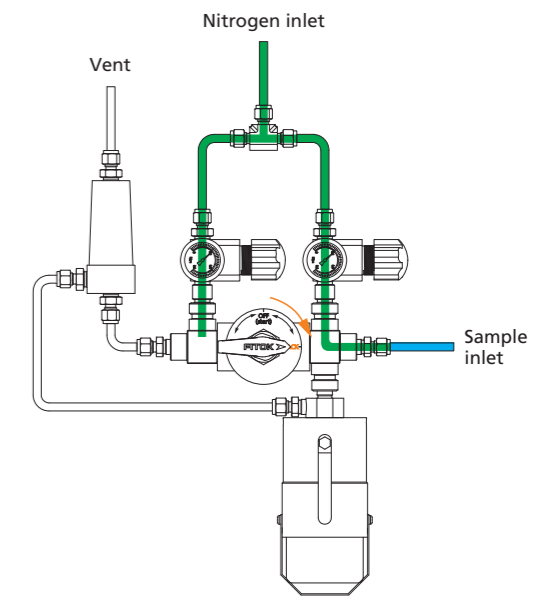
1-off

Place a new septum on the sample bottle, insert the bottle with cap and septum into the sleeve until the septum is pierced by the needles. Adjust the bottle to a suitable height and then buckle up the bottle retaining clip.



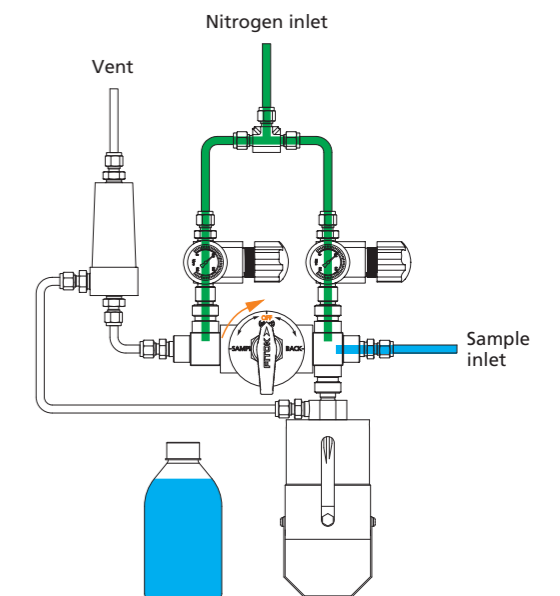
3-sampling

Turn the sampling valve handle to the "SAMPLE" position, allowing nitrogen gas to flow through the venturi to create low vacuum condition in the bottle, and let the sample flow into the bottle until the required amount is taken.



2-back flow

Turn the handle of the sampling valve to "BACK" position, allowing nitrogen gas to flow through the sampler to force any residual sample into the process line to ensure representative sampling.



4-off

Turn the sampling valve handle to "OFF" position. Remove the bottle retaining clip and pull the bottle out from the sleeve, the septum reseals automatically. the sampling process is complete.

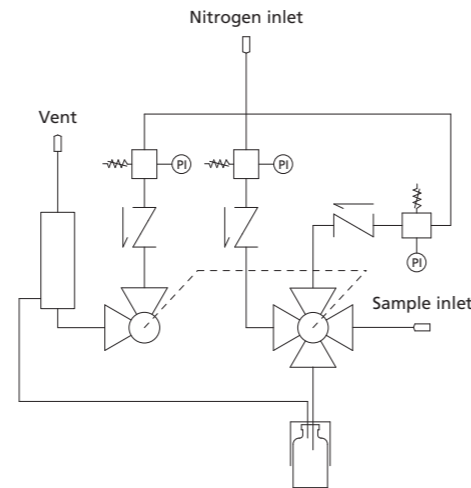
SBLE4-Back Flow, Air Replaced, Venturi and System Purge Configuration

Features

- Sampling directly from process or system
- Applicable for zero-pressure or vacuum process
- Closed sampling
- Back flow and bottle air replaced
- Representative sample
- Linkage ball valve design, easy operation
- System purge

Technical Specifications and Basic Configuration

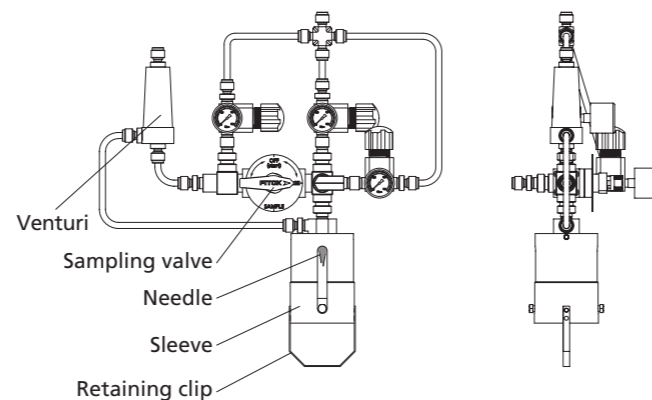
Material	316 SS
Sleeve	300 ml sleeve with bottle retaining clip
Needle Assembly	Body, process / vent needle
	Process / vent needle ID: 0.06" (1.5 mm)
Sampling Valve	BF/BO Series linkage ball valve (Gearbox linkage)
	PTFE seat
	Max working pressure: 1500 psig (103 bar)
	Temperature range: 0°F to 300°F (-18°C to 148°C)
Nitrogen Branch	Including pressure regulating valve, check valve and pressure gauge
	Max working pressure of pressure regulating valve: 300 psig (20.7 bar)
	Pressure regulating range: 10 psig to 100 psig (0.7 bar to 7 bar)
	CO series check valve
Venturi	Allowing a vacuum to be created in the outlet, resulting in pressure difference between sampler inlet and vent, so that the liquid can flow into the sampler
Operation	Manual
Connections	1/4" tube fitting



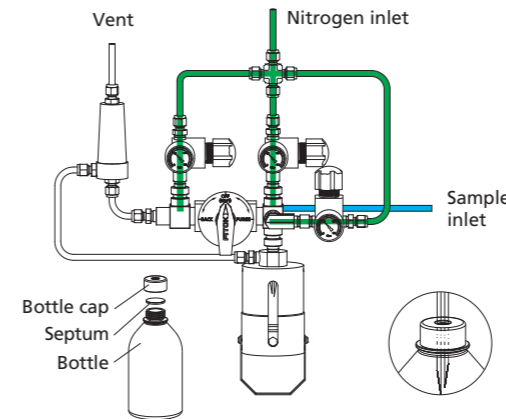
Remarks: The above is a basic specification only, other specifications are available upon requests. If you need other detailed information please contact FITOK group or authorized agent.

Accessories and Options

- Lockable handle
- Mounting plate
- Protective enclosure
- Vent outlet carbon absorption
- Mounting bracket
- Diverse connection types and sizes
- Various materials

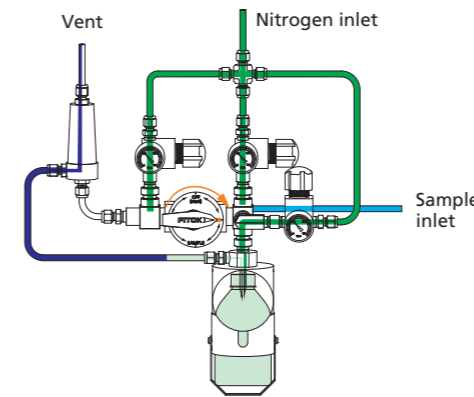


Operations



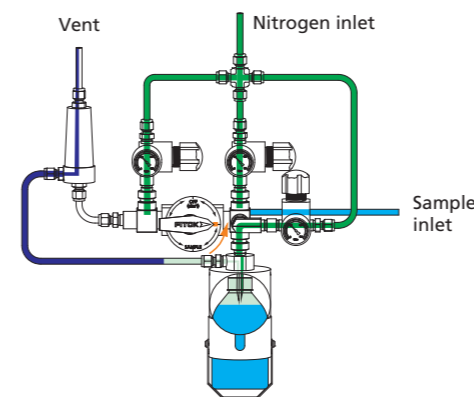
1-off

Place a new septum on the sample bottle, insert the bottle with cap and septum into the sleeve until the septum is pierced by the needles. Adjust the bottle to a suitable height and then buckle up the bottle retaining clip.



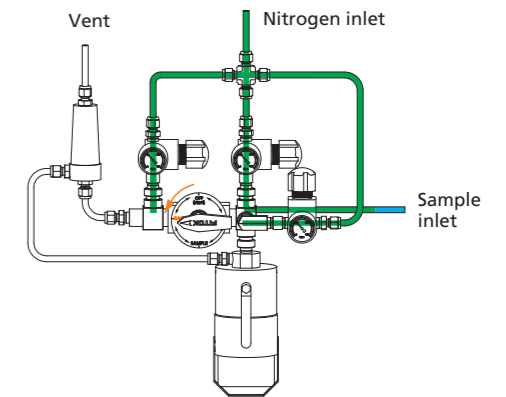
3-air replaced

Turn the handle to "PURGE" position, allowing nitrogen gas to replace the air in the sample bottle to ensure representative sample.



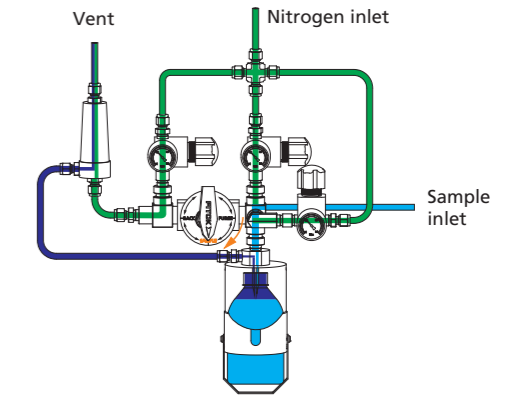
5-system purge

Turn the sampling valve handle to "PURGE" position, allowing nitrogen gas to flow through the sampler to ensure any residual liquid is forced into the sample bottle.



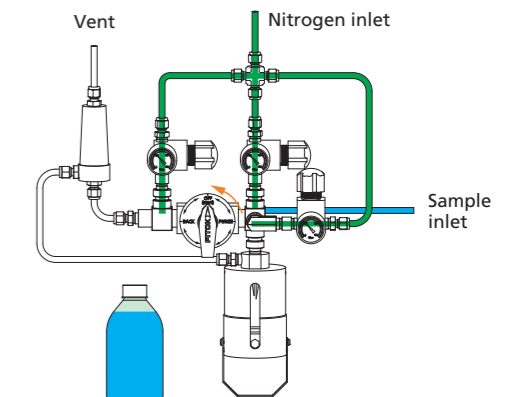
2-back flow

Turn the handle of the sampling valve to "BACK" position, allowing nitrogen gas to flow through the sampler to force any residual sample into the process line to ensure representative sampling.



4-sampling

Turn the sampling valve handle to the "SAMPLE" position, allowing nitrogen gas to flow through the venturi unit to create low vacuum condition in the bottle, and let the sample flow into the bottle until the required amount is taken.



6-off

Turn the sampling valve handle to "OFF" position. Remove the bottle retaining clip and pull the bottle out from the sleeve, the septum reseals automatically. the sampling process is complete.

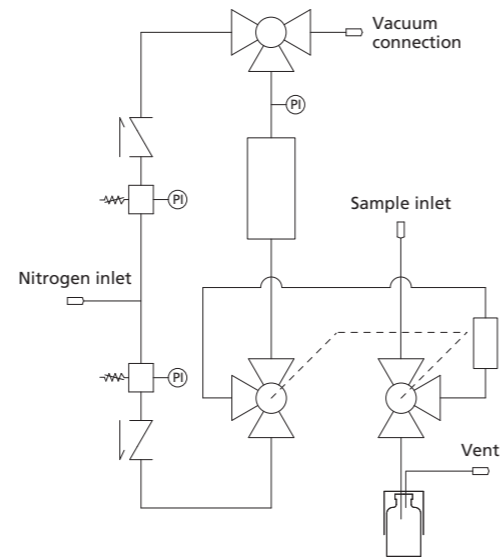
SBLE5-Vacuum, Overflow, Fixed Volume, Back Flow and System Purge Configuration

Features

- Sampling directly from process or system
- Applicable for zero-pressure or vacuum process
- Closed sampling
- Fixed volume
- Back flow and overflow
- Representative sample
- Linkage ball valve design, easy operation
- System purge

Technical Specifications and Basic Configuration

Material	316 SS
Sleeve	300l sleeve with bottle retaining clip
Needle Assembly	Body, process / vent needle
	Process / vent needle ID: 0.06" (1.5 mm)
Sampling Valve	BF Series linkage ball valve (Gearbox linkage)
	PTFE seat and FKM O-ring
	Max. working pressure: 1500 psig (103 bar)
	Temperature range: 0°F to 450°F (-18°C to 232°C)
Nitrogen Branch	Including pressure regulating valve, check valve and pressure gauge
	Max working pressure of pressure regulating valve: 300 psig (20.7 bar)
	Pressure regulating range: 10 psig to 100 psig (0.7 bar to 7 bar)
	CO series check valve
Operation	Manual
Connections	1/4" tube fitting
Other	Overflow chamber, fixed volume cylinder and ball valve

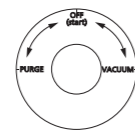


Remarks: The above is a basic specification only, other specifications are available upon requests. If you need other detailed information please contact FITOK group or authorized agent.

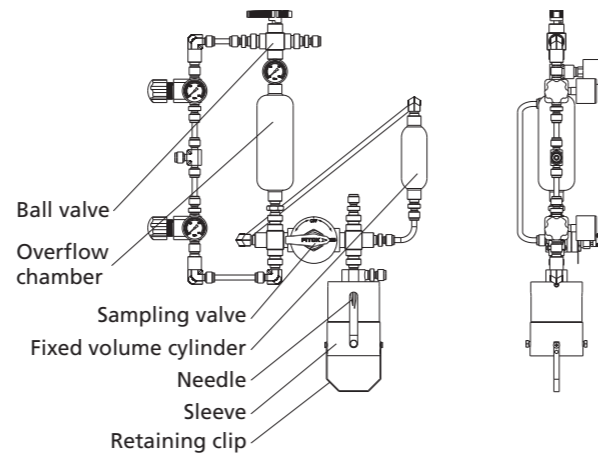
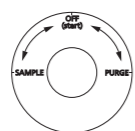
Accessories and Options

- Lockable handle
- Mounting plate
- Protective enclosure
- Vent outlet carbon absorption
- Mounting bracket
- Diverse connection types and sizes
- Various materials

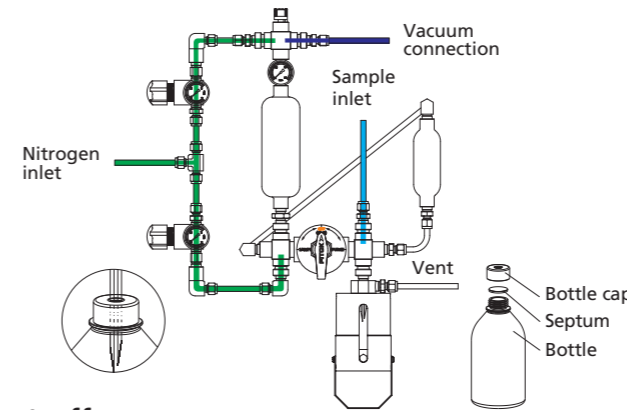
Ball valve indication panel



Sampling valve indication panel

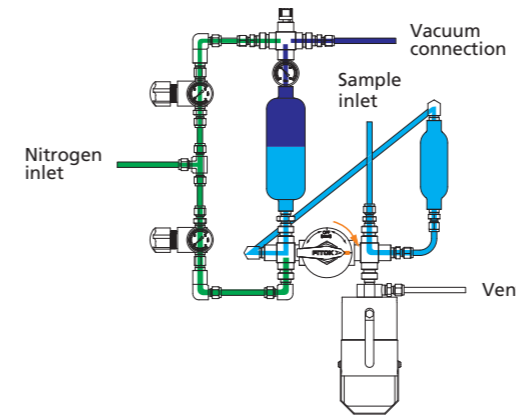


Operations



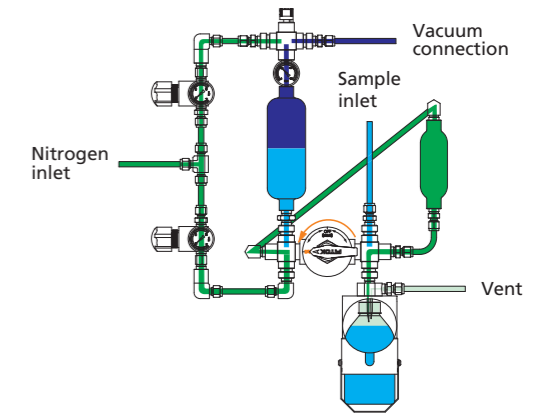
1-off

Place a new septum on the sample bottle, insert the bottle with cap and septum into the sleeve until the septum is pierced by the needles. Adjust the bottle to a suitable height and then buckle up the bottle retaining clip.



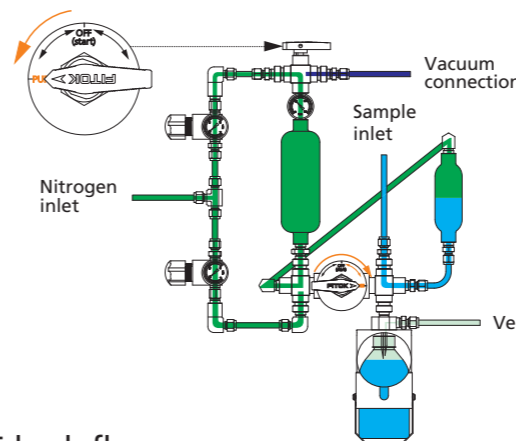
2-vacuum

Turn the ball valve handle above the overflow chamber to "VACUUM" position, allowing a vacuum to be created in the overflow chamber. Then turn the ball valve handle to "OFF" position.



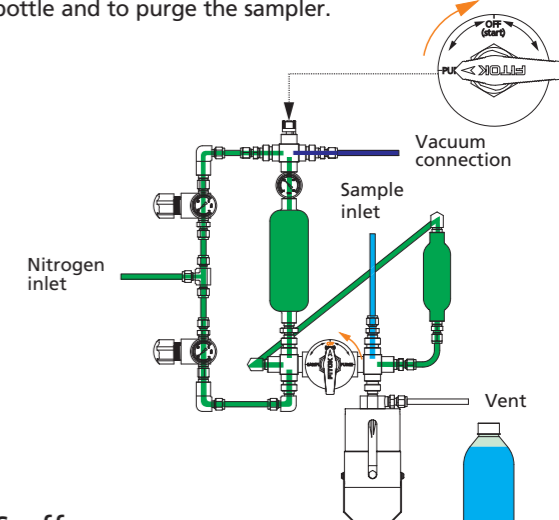
3-pre-sampling

Turn the sampling valve handle to "PURGE" position, under the vacuum condition, the residual sample in the sampler will flow into the overflow chamber, and the sample in the process line flows into the sample chamber to ensure representative sampling.



4-sampling

Turn the sampling valve handle to "SAMPLE" position, allowing nitrogen gas to force the sample to flow into the bottle and to purge the sampler.



5-back flow

Turn the sampling valve handle and the ball valve handle to "PURGE" position, allowing nitrogen gas to force any residual sample into the process line.

6-off

Turn the sampling valve handle and the ball valve handle to "OFF" position. Remove the bottle retaining clip and pull the bottle out from the sleeve, the septum reseals automatically. The sampling process is complete.

C-Cylinder Configuration Sampling System

S Series-Liquefied Gas Sampling

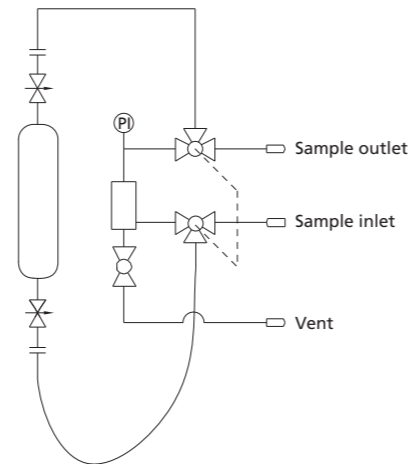
SCSF1-Expansion Chamber Configuration

Features

- ⦿ Sampling directly from process or system
- ⦿ Pressure range: 0 to 1450 psig (0 to 100 bar)
- ⦿ Closed sampling
- ⦿ Representative sample
- ⦿ Sample circularion
- ⦿ Equipped with pressure relief system, safer for sampling
- ⦿ Linkage ball valve design, easy operation

Technical Specifications and Basic Configuration

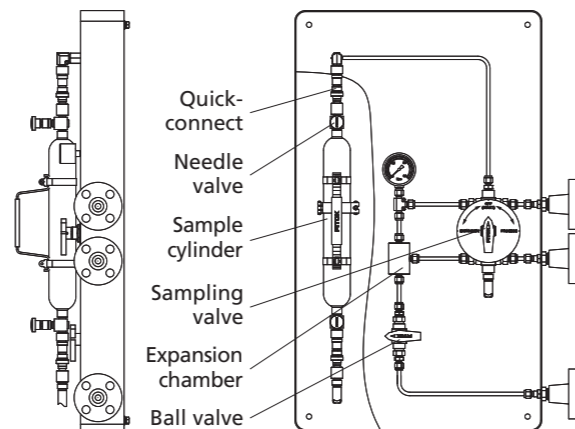
Material	316 SS
Sample Cylinder	500 ml cylinder
	ND series needle valve
	QC4 series quick connect
Sampling Valve	BF Series linkage ball valve (Gearbox linkage)
	PTFE seat and FKM O-ring
	Max. working pressure: 1500 psig (103 bar)
Expansion Chamber	Temperature range: 0°F to 450°F (-18°C to 232°C)
	45 ml (with pressure gauge), spread gas medium from the cylinder to the expansion chamber
Hose	PS Series
	PTFE-Lined, 304 SS Braided
	Max. Pressure: 3000 psig (207 bar)
Vent Branch	Working Temp.: -65°F to 400°F (-53°C to 230°C)
	Ball valve
Operation	Manual
Connections	NPS 1/2 flange



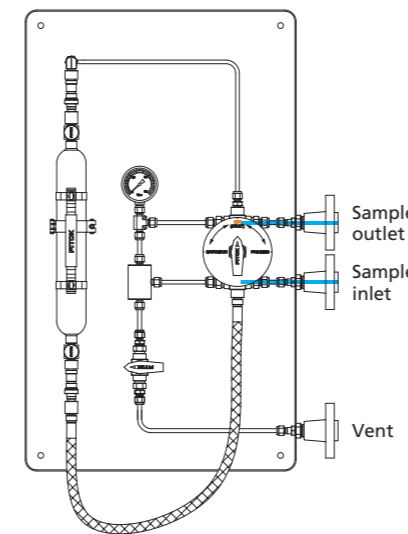
Remarks: The above is a basic specification only, other specifications are available upon requests. If you need other detailed information please contact FITOK group or authorized agent.

Accessories and Options

- ⦿ Lockable handle
- ⦿ Mounting plate
- ⦿ Protective enclosure
- ⦿ Vent outlet carbon absorption
- ⦿ Mounting bracket
- ⦿ Diverse connection types and sizes
- ⦿ Various materials

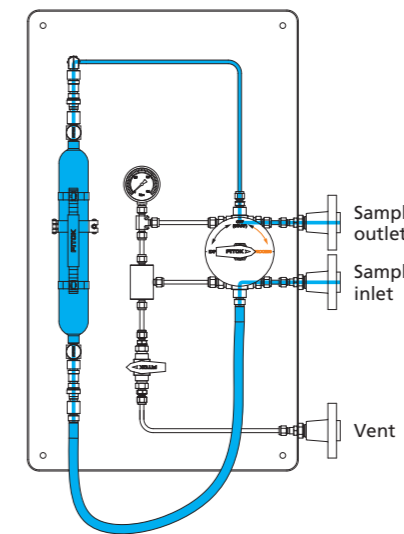


Operations



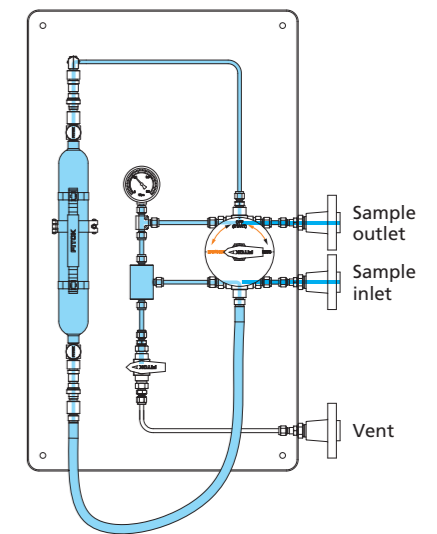
1-off

Install the sample cylinder and connect the flexible hose to the bottom side of the sample cylinder, open the needle valves at both end of the sample cylinder.



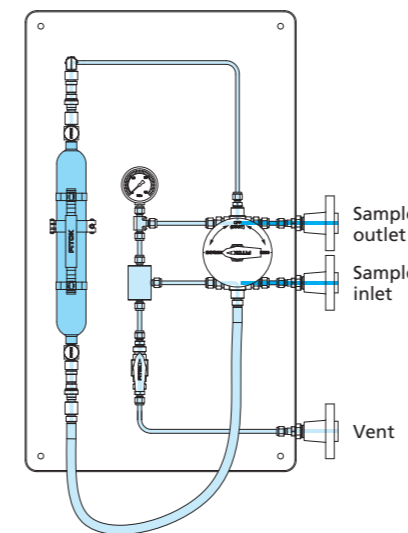
2-sampling

Turn the sampling valve handle to "PROCESS" position, allowing sample to flow into the system and to fill the sample cylinder, persist for a certain period of time to ensure representative sample.



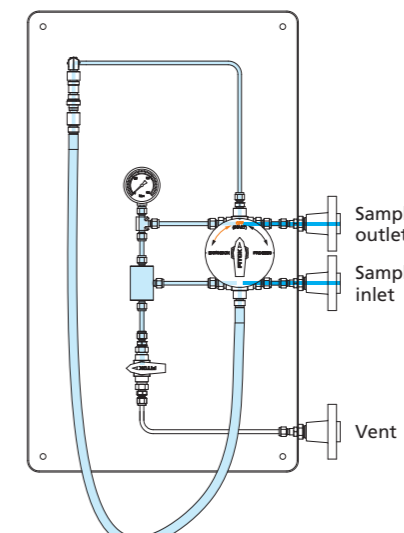
3-expansion

Turn the handle of the sampling valve to "EXPANSION" position to connect the sample cylinder and the expansion chamber, persist for a certain period of time to make sure the sample flow into the expansion chamber.



4-vent

Turn off the needle valves at both ends of the sample cylinder, turn on the ball valve below the expansion chamber, the sample in the expansion chamber and the system is being vented to the vent line, then turn off the ball valve.



5-off

Turn the sampling valve handle to "OFF" position, disconnect the flexible hose and remove the sample cylinder, then connect the flexible hose to the top quick connect, the sampling process is completed.

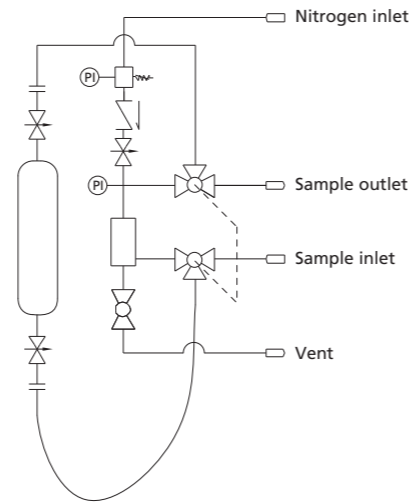
SCSF2-Expansion Chamber Purge Configuration

Features

- Sampling directly from process or system
- Pressure range: 0 to 1450 psig (0 to 100 bar)
- Closed sampling
- Sample circulation and expansion chamber purge
- Equipped with pressure relief system, safer for sampling
- Linkage ball valve design, easy operation

Technical Specifications and Basic Configuration

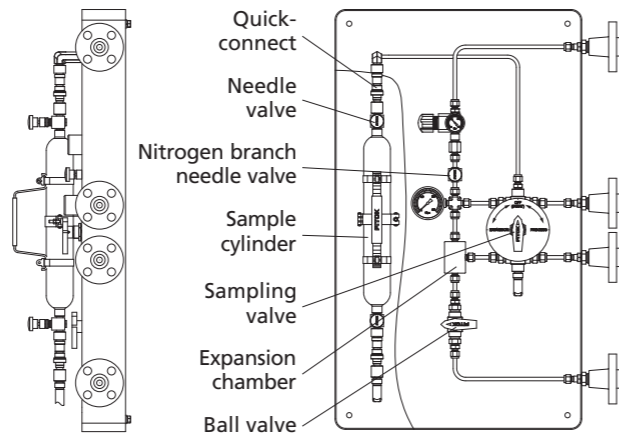
Material	316 SS
Sample Cylinder	500 ml cylinder
	ND series needle valve
	QC4 series quick connect
Sampling Valve	BF Series linkage ball valve (Gearbox linkage)
	PTFE seat and FKM O-ring
	Max. working pressure: 1500 psig (103 bar)
Nitrogen branch	Temperature range: 0°F to 450°F (-18°C to 232°C)
	Including pressure regulating valve, check valve and pressure gauge and needle valve
	Max working pressure of pressure regulating valve: 300 psig (20.7 bar)
	Pressure regulating range: 10 psig to 100 psig (0.7 bar to 7 bar)
	CO series check valve, ND series needle valve
Expansion Chamber	45 ml (with pressure gauge), spread gas medium from the cylinder to the expansion chamber
	PS Series
Hose	PTFE-Lined, 304 SS Braided
	Max. Pressure: 3000 psig (207 bar)
	Working Temp.: -65°F to 400°F (-53°C to 230°C)
Vent Branch	Ball valve
Operation	Manual
Connections	NPS 1/2 flange



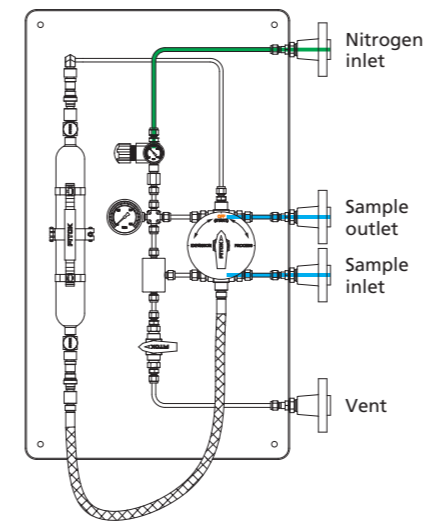
Remarks: The above is a basic specification only, other specifications are available upon requests. If you need other detailed information please contact FITOK group or authorized agent.

Accessories and Options

- Lockable handle
- Mounting plate
- Protective enclosure
- Vent outlet carbon absorption
- Mounting bracket
- Diverse connection types and sizes
- Various materials

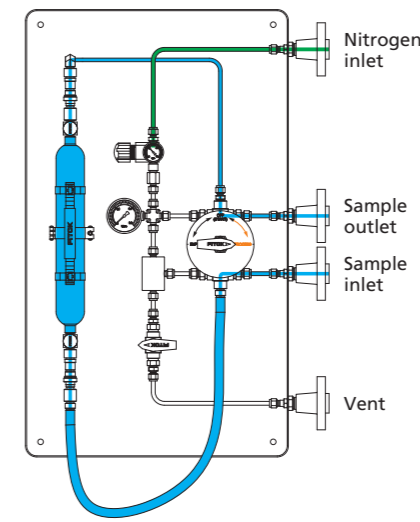


Operations



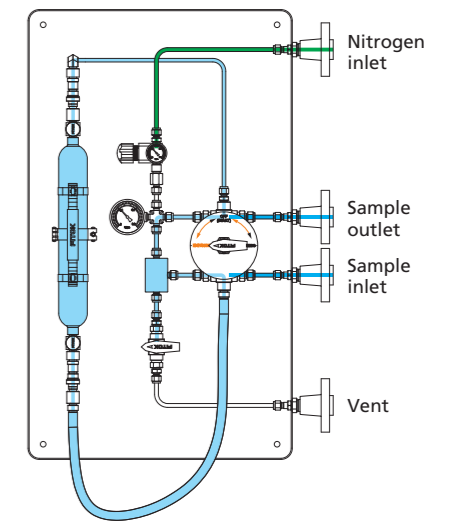
1-off

Install the sample cylinder and connect the flexible hose to the bottom side of the sample cylinder, open the needle valves at both end of the sample cylinder.



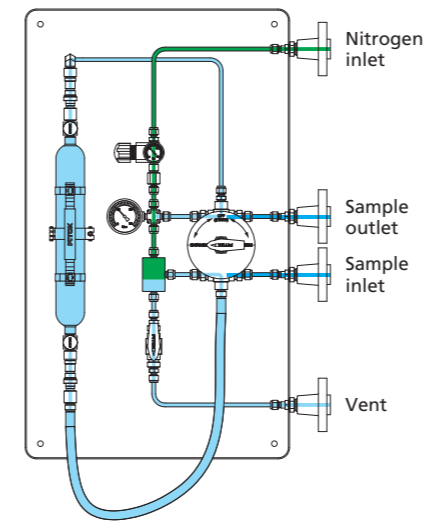
2-sampling

Turn the sampling valve handle to "PROCESS" position, allowing sample to flow into the system and to fill the sample cylinder, persist for a certain period of time to ensure representative sample.



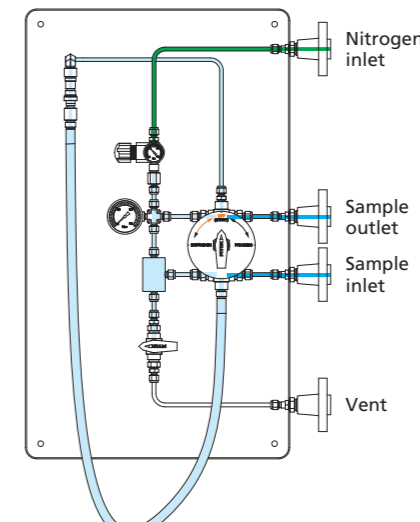
3-expansion

Turn the handle of the sampling valve to "EXPANSION" position to connect the sample cylinder and the expansion chamber, persist for a certain period of time to make sure the sample flow into the expansion chamber.



4-purge

Turn off the needle valves at both ends of the sample cylinder, open the ball valve and the nitrogen branch needle valve, allowing nitrogen gas to purge the expansion chamber, turn off the ball valve and the nitrogen branch needle valve after purging.



5-off

Turn the sampling valve handle to "OFF" position, disconnect the flexible hose and remove the sample cylinder, then connect the flexible hose to the top quick connect, the sampling process is completed.

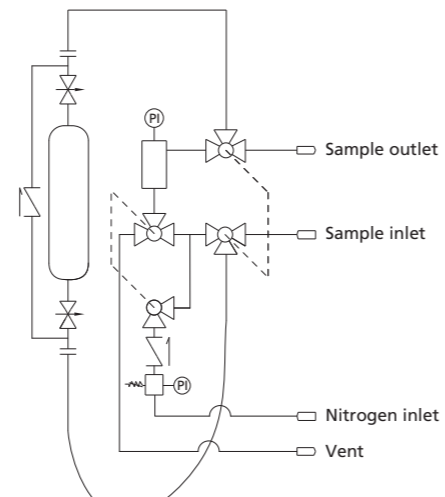
SCSF3-Expansion Chamber, Bypass and System Purge Configuration

Features

- ⦿ Sampling directly from process or system
- ⦿ Pressure range: 0 to 1450 psig (0 to 100 bar)
- ⦿ Closed sampling
- ⦿ Representative sample
- ⦿ Sample circulation and system purge
- ⦿ Equipped with pressure relief system, safer for sampling
- ⦿ Linkage ball valve design, easy operation

Technical Specifications and Basic Configuration

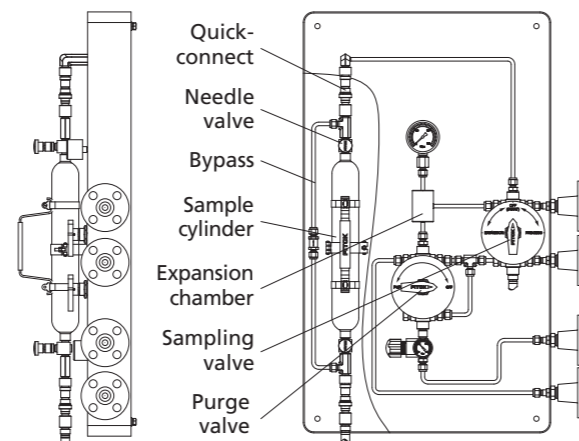
Material	316 SS
Sample Cylinder	500 ml cylinder
	ND series needle valve
	QC4 series quick connect
	CV series check valve
Sampling Valve	BF Series linkage ball valve (Gearbox linkage)
	PTFE seat and FKM O-ring
	Max. working pressure: 1500 psig (103 bar)
Nitrogen branch	Temperature range: 0°F to 450°F (-18°C to 232°C)
	Including pressure regulating valve, check valve and pressure gauge
	Max working pressure of pressure regulating valve: 300 psig (20.7 bar)
	Pressure regulating range: 10 psig to 100 psig (0.7 bar to 7 bar)
	CO series check valve
Expansion Chamber	45 ml (with pressure gauge), spread gas medium from the cylinder to the expansion chamber
	PS Series
Hose	PTFE-Lined, 304 SS Braided
	Max. Pressure: 3000 psig (207 bar)
	Working Temp.: -65°F to 400°F (-53°C to 230°C)
Other	BF Series linkage ball valve (Gearbox linkage)
Operation	Manual
Connections	NPS 1/2 flange



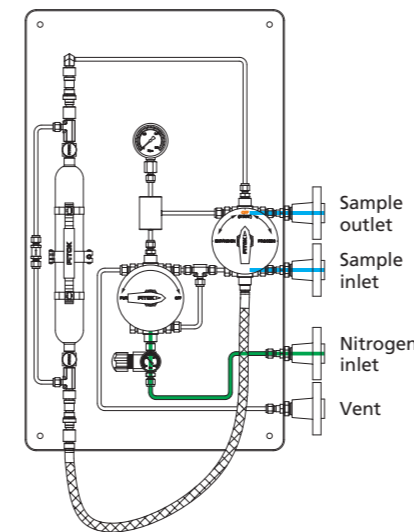
Remarks: The above is a basic specification only, other specifications are available upon requests. If you need other detailed information please contact FITOK group or authorized agent.

Accessories and Options

- ⦿ Lockable handle
- ⦿ Mounting plate
- ⦿ Protective enclosure
- ⦿ Vent outlet carbon absorption
- ⦿ Mounting bracket
- ⦿ Diverse connection types and sizes
- ⦿ Various materials

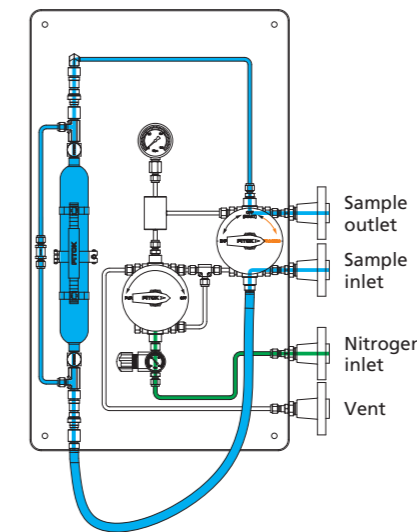


Operations



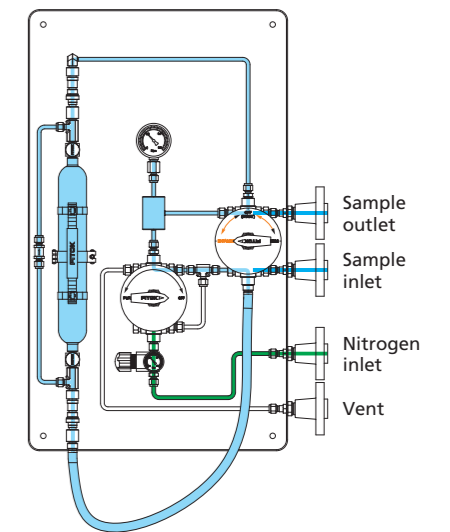
1-off

Install the sample cylinder and connect the flexible hose to the bottom side of the sample cylinder, open the needle valves at both end of the sample cylinder.



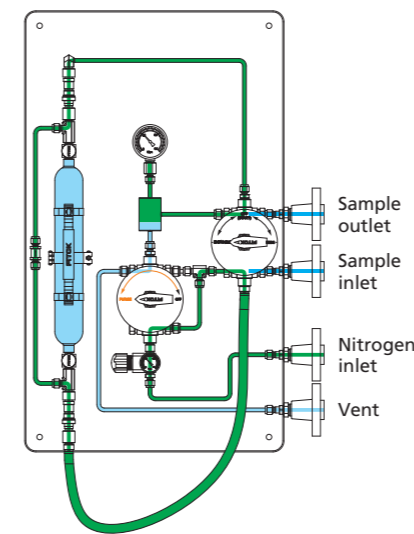
2-sampling

Turn the sampling valve handle to "PROCESS" position, allowing sample to flow into the system and to fill the sample cylinder, persist for a certain period of time to ensure representative sample.



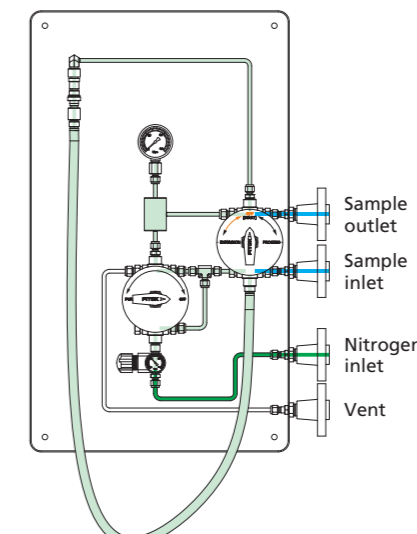
3-expansion

Turn the handle of the sampling valve to "EXPANSION" position to connect the sample cylinder and the expansion chamber, persist for a certain period of time to make sure the sample flow into the expansion chamber.



4-purge

Turn off the needle valves at both ends of the sample cylinder, turn the purge valve handle to "PURGE" position, allowing nitrogen gas to flow through the quick connectors and bypass line to purge the expansion chamber and the system, turn the purge valve handle to "OFF" position after purging.



5-off

Turn the sampling valve handle to "OFF" position, disconnect the flexible hose and remove the sample cylinder, then connect the flexible hose to the top quick connect, the sampling process is completed.

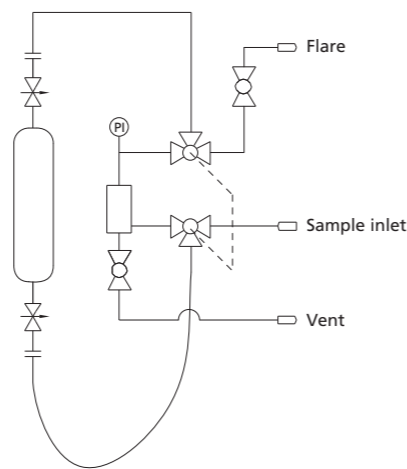
SCSF4-Expansion Chamber and Outlet to Flare Configuration

Features

- Sampling directly from process or system
- Pressure range: 0 to 1450 psig (0 to 100 bar)
- Closed sampling
- Representative sample
- Applicable for sampling from process or system without process out connection
- Equipped with pressure relief system, safer for sampling
- Linkage ball valve design, easy operation

Technical Specifications and Basic Configuration

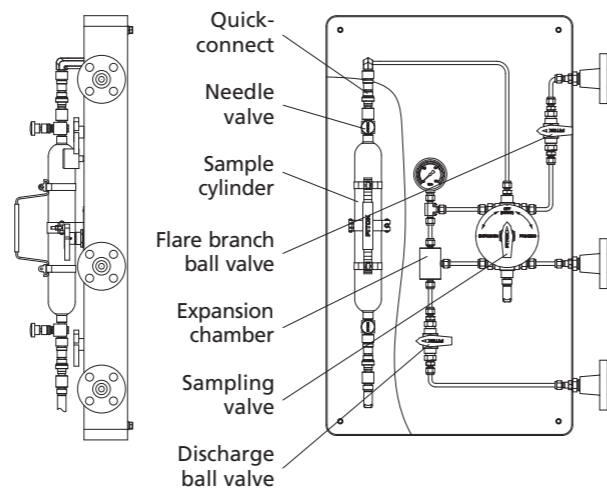
Material	316 SS
Sample Cylinder	500 ml cylinder
	ND series needle valve
	QC4 series quick connect
Sampling Valve	BF Series linkage ball valve (Gearbox linkage)
	PTFE seat and FKM O-ring
	Max. working pressure: 1500 psig (103 bar)
Expansion Chamber	Temperature range: 0°F to 450°F (-18°C to 232°C)
	45 ml (with pressure gauge), spread gas medium from the cylinder to the expansion chamber
Hose	PS Series
	PTFE-Lined, 304 SS Braided
	Max. Pressure: 3000 psig (207 bar)
Flare Branch	Working Temp.: -65°F to 400°F (-53°C to 230°C)
	Ball valve
Vent Branch	Ball valve
Operation	Manual
Connections	NPS 1/2 flange



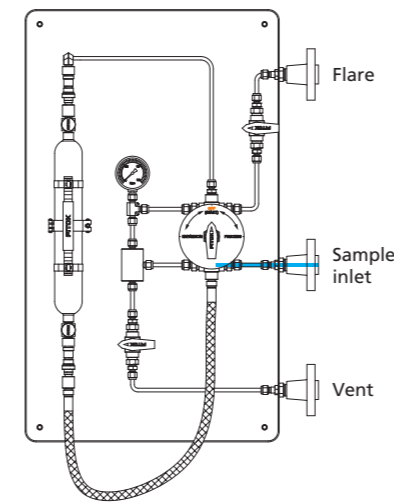
Remarks: The above is a basic specification only, other specifications are available upon requests. If you need other detailed information please contact FITOK group or authorized agent.

Accessories and Options

- Lockable handle
- Mounting plate
- Protective enclosure
- Vent outlet carbon absorption
- Mounting bracket
- Diverse connection types and sizes
- Various materials

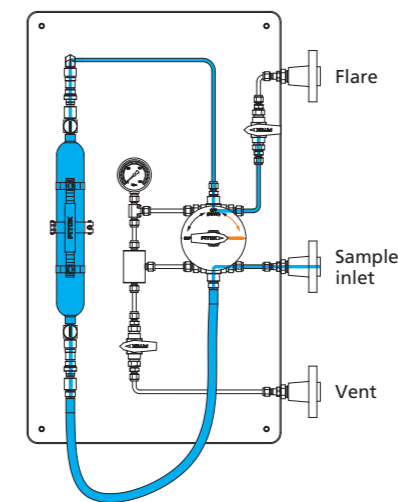


Operations



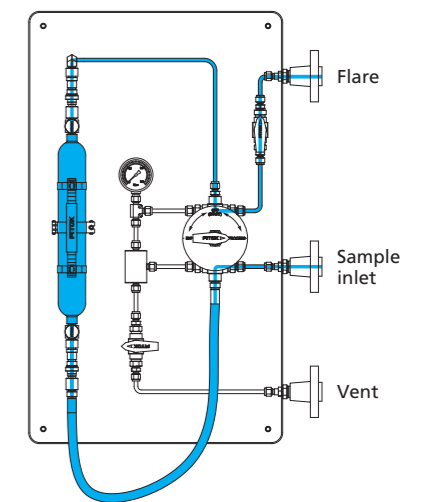
1-off

Install the sample cylinder and connect the flexible hose to the bottom side of the sample cylinder, open the valves at both end of the sample cylinder.



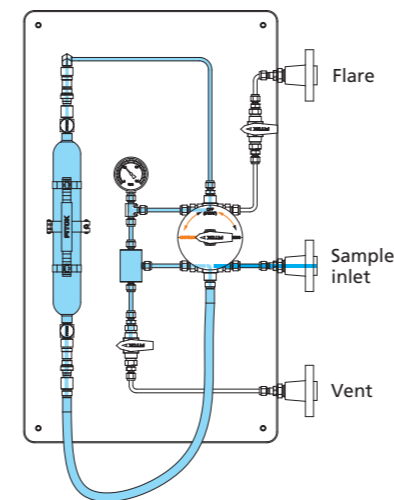
2-pre-sampling

Turn the sampling valve handle to "PROCESS" position, allowing sample to flow into the system and to fill the sample cylinder.



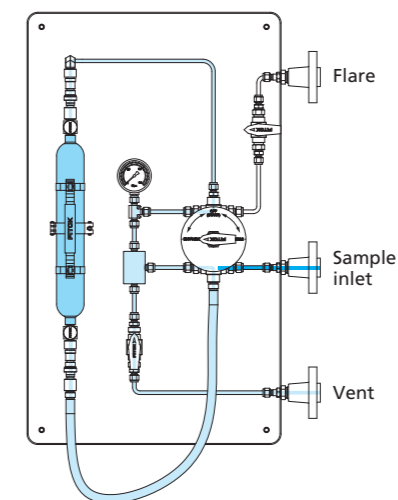
3-sampling

Open the flare branch ball valve, allowing sample to flow through the sample cylinder, persist for a certain period of time to ensure representative sample.



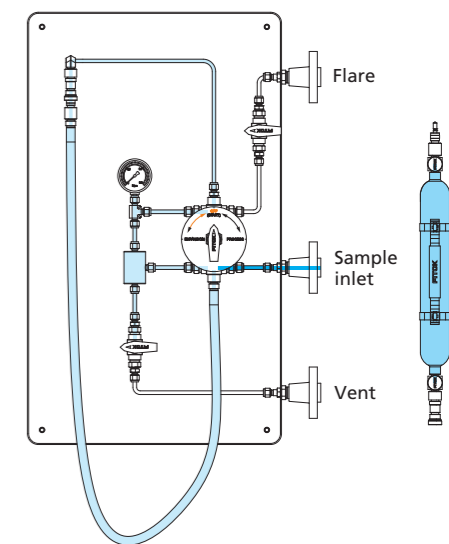
4-expansion

Turn off the flare branch ball valve, turn the sampling valve handle to "EXPANSION" position to connect the sample cylinder and the expansion chamber, persist for a certain period of time to make sure the sample flow into the expansion chamber.



5-vent

Turn off the needle valves at both ends of the sample cylinder, turn on the discharge ball valve below the expansion chamber, the sample in the expansion chamber and the system is being vented to the vent line, then turn off the discharge ball valve.



6-off

Turn the sampling valve handle to "OFF" position, disconnect the flexible hose and remove the sample cylinder, then connect the flexible hose to the top quick connect, the sampling process is completed.

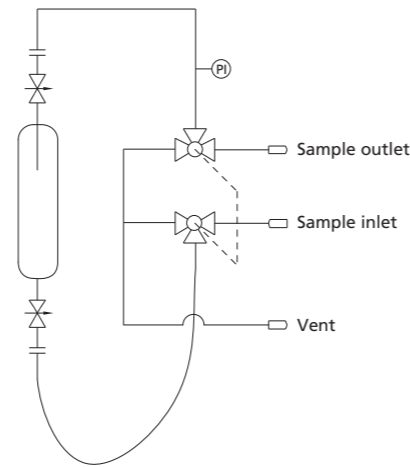
SCSF5-Outage Tube Configuration

Features

- Sampling directly from process or system
- Pressure range: 0 to 1450 psig (0 to 100 bar)
- Closed sampling
- Representative sample
- Sample circulation
- Outage tube within cylinder keep the cylinder safe
- Linkage ball valve design, easy operation

Technical Specifications and Basic Configuration

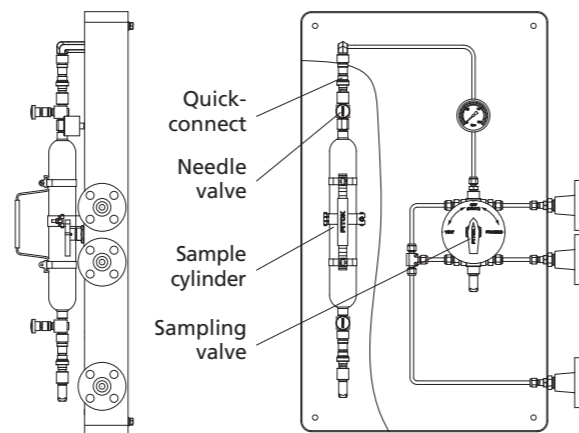
Material	316 SS
Sample Cylinder	500 ml cylinder
	ND series needle valve
	QC4 series quick connect
Sampling Valve	BF Series linkage ball valve (Gearbox linkage)
	PTFE seat and FKM O-ring
	Max. working pressure: 1500 psig (103 bar)
Outage tube	Temperature range: 0°F to 450°F (-18°C to 232°C)
	Limited to 85% liquid filling of sample cylinder
Hose	PS Series
	PTFE-Lined, 304 SS Braided
	Max. Pressure: 3000 psig (207 bar)
	Working Temp.: -65°F to 400°F (-53°C to 230°C)
Operation	Manual
Connections	NPS 1/2 flange



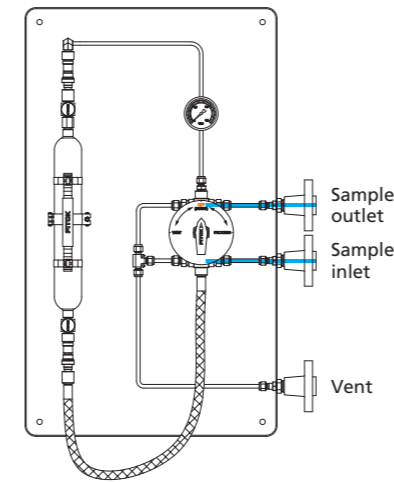
Remarks: The above is a basic specification only, other specifications are available upon requests. If you need other detailed information please contact FITOK group or authorized agent.

Accessories and Options

- Lockable handle
- Mounting plate
- Protective enclosure
- Vent outlet carbon absorption
- Mounting bracket
- Diverse connection types and sizes
- Various materials

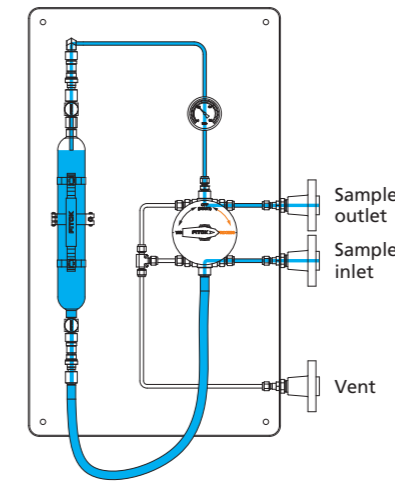


Operations



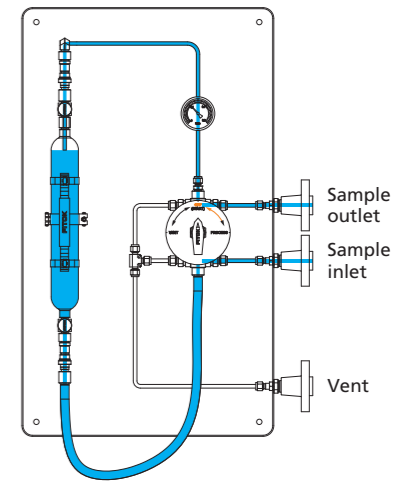
1-off

Install the sample cylinder and connect the flexible hose to the bottom side of the sample cylinder, open the valves at both end of the sample cylinder.



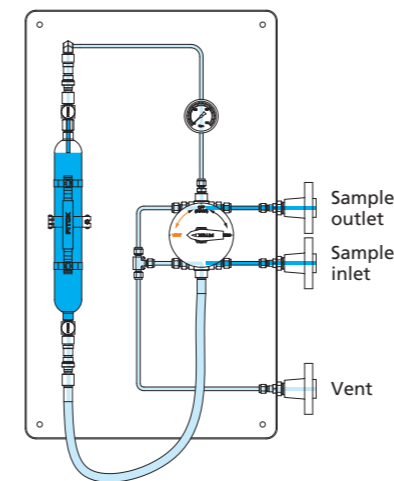
2-sampling

Turn the sampling valve handle to "PROCESS" position, allowing sample to flow into the system and to fill the cylinder, the outage tube ensures a predefined sampling volume, persist for a certain period of time to ensure representative sample.



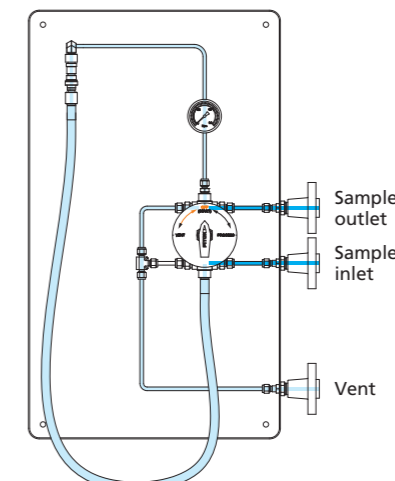
3-off

Turn the sampling valve handle to "OFF" position, turn off the needle valves at both ends of the sample cylinder.



4-vent

Turn the sampling valve handle to "VENT" position to connect the sampling system to vent system, discharge the sampling system pressure.



5-off

Turn the sampling valve handle to "OFF" position, disconnect the flexible hose and remove the sample cylinder, then connect the flexible hose to the top quick connect, the sampling process is completed.

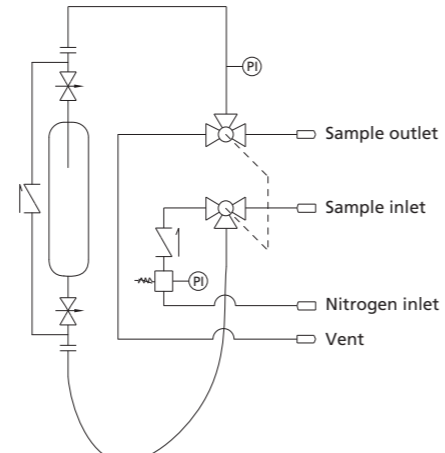
SCSF6-Outage Tube, Bypass and System Purge Configuration

Features

- ⦿ Sampling directly from process or system
- ⦿ Pressure range: 0 to 1450 psig (0 to 100 bar)
- ⦿ Closed sampling
- ⦿ Representative sample
- ⦿ Sample circulation and system purge
- ⦿ Outage tube within cylinder keep the cylinder safe
- ⦿ Linkage ball valve design, easy operation

Technical Specifications and Basic Configuration

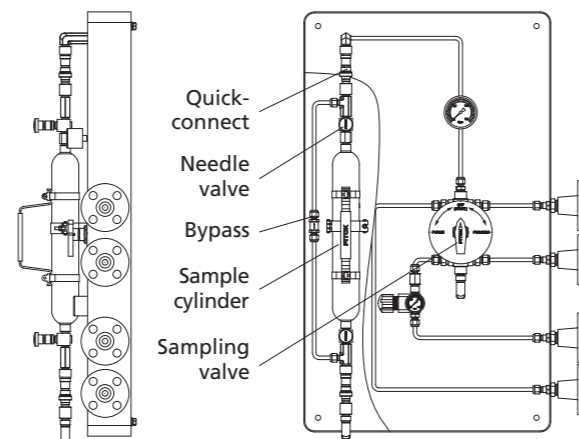
Material	316 SS
Sample Cylinder	500 ml cylinder
	ND series needle valve
	QC4 series quick connect
	CV series check valve
Sampling Valve	BF Series linkage ball valve (Gearbox linkage)
	PTFE seat and FKM O-ring
	Max. working pressure: 1500 psig (103 bar)
Nitrogen branch	Temperature range: 0°F to 450°F (-18°C to 232°C)
	Including pressure regulating valve, check valve and pressure gauge
	Max working pressure of pressure regulating valve: 300 psig (20.7 bar)
	Pressure regulating range: 10 psig to 100 psig (0.7 bar to 7 bar)
Outage tube	CO series check valve
	Limited to 85% liquid filling of sample cylinder
Hose	PS Series
	PTFE-Lined, 304 SS Braided
	Max. Pressure: 3000 psig (207 bar)
	Working Temp.: -65°F to 400°F (-53°C to 230°C)
Operation	Manual
Connections	NPS 1/2 flange



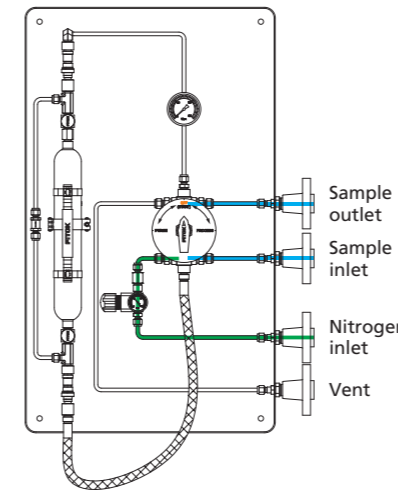
Remarks: The above is a basic specification only, other specifications are available upon requests. If you need other detailed information please contact FITOK group or authorized agent.

Accessories and Options

- ⦿ Lockable handle
- ⦿ Mounting plate
- ⦿ Protective enclosure
- ⦿ Vent outlet carbon absorption
- ⦿ Mounting bracket
- ⦿ Diverse connection types and sizes
- ⦿ Various materials

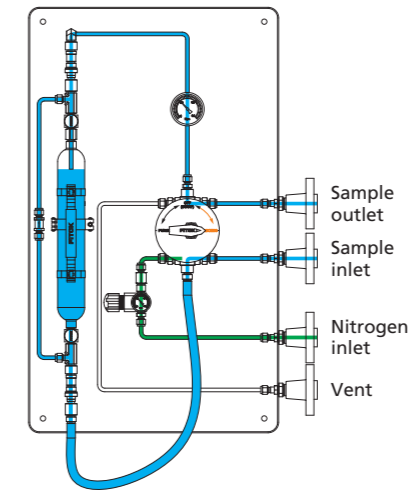


Operations



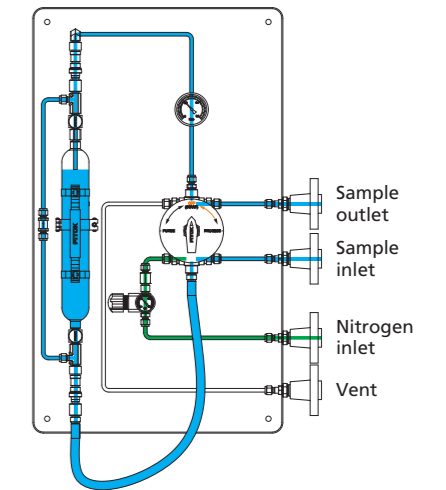
1-off

Install the sample cylinder and connect the flexible hose to the bottom side of the sample cylinder, open the valves at both end of the sample cylinder.



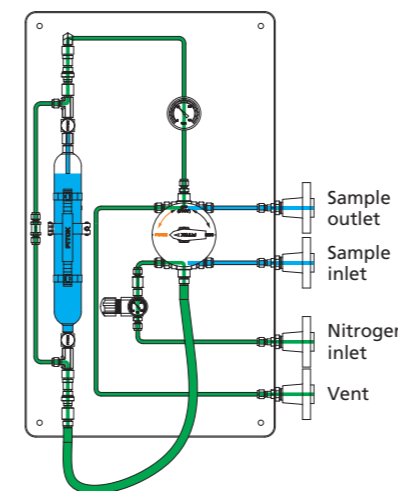
2-sampling

Turn the sampling valve handle to "PROCESS" position, allowing sample to flow into the system and to fill the cylinder, the outage tube ensures a predefined sampling volume, persist for a certain period of time to ensure representative sample.



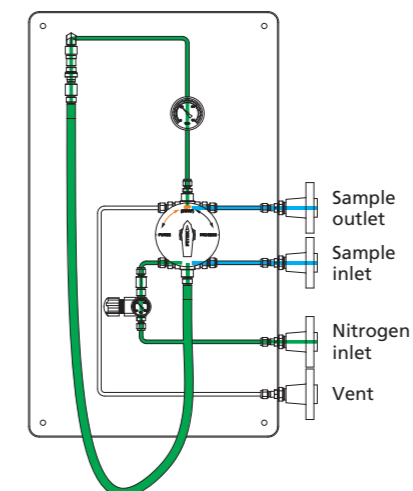
3-off

Turn the sampling valve handle to "OFF" position, turn off the needle valves at both ends of the sample cylinder.



4-purge

Turn the sampling valve handle to "PURGE" position, allowing nitrogen gas to flow through the quick connectors and bypass line to purge the system.



5-off

Turn the sampling valve handle to "OFF" position, disconnect the flexible hose and remove the sample cylinder, then connect the flexible hose to the top quick connect, the sampling process is completed.

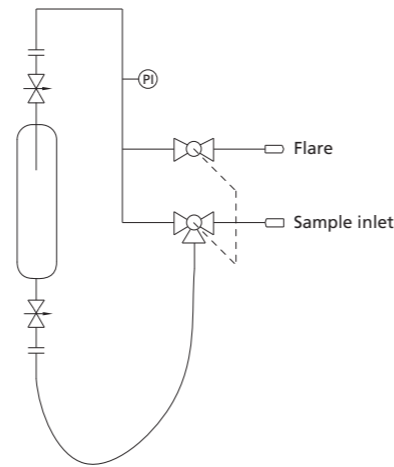
SCSF7-Outage Tube and Outlet to Flare Configuration

Features

- Sampling directly from process or system
- Pressure range: 0 to 1450 psig (0 to 100 bar)
- Closed sampling
- Representative sample
- Applicable for sampling from process or system without process out connection
- Outage tube within cylinder keep the cylinder safe
- Linkage ball valve design, easy operation

Technical Specifications and Basic Configuration

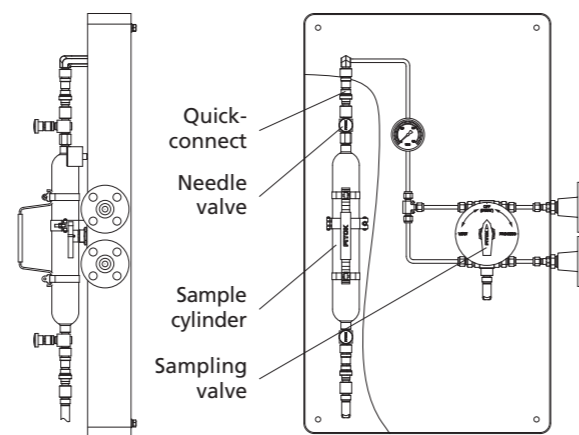
Material	316 SS
Sample Cylinder	500 ml cylinder
	ND series needle valve
	QC4 series quick connect
Sampling Valve	BF Series linkage ball valve (Gearbox linkage)
	PTFE seat and FKM O-ring
	Max. working pressure: 1500 psig (103 bar)
	Temperature range: 0°F to 450°F (-18°C to 232°C)
Outage tube	Limited to 85% liquid filling of sample cylinder
Hose	PS Series
	PTFE-Lined, 304 SS Braided
	Max. Pressure: 3000 psig (207 bar)
	Working Temp.: -65°F to 400°F (-53°C to 230°C)
Operation	Manual
Connections	NPS 1/2 flange



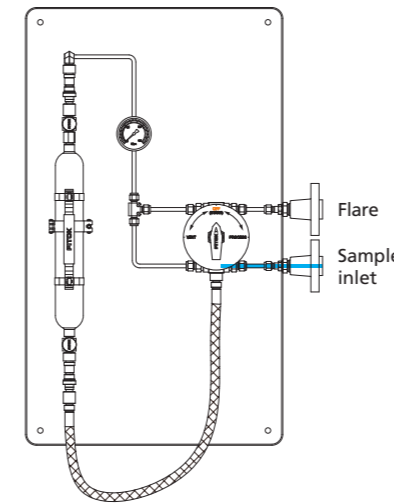
Remarks: The above is a basic specification only, other specifications are available upon requests. If you need other detailed information please contact FITOK group or authorized agent.

Accessories and Options

- Lockable handle
- Mounting plate
- Protective enclosure
- Vent outlet carbon absorption
- Mounting bracket
- Diverse connection types and sizes
- Various materials

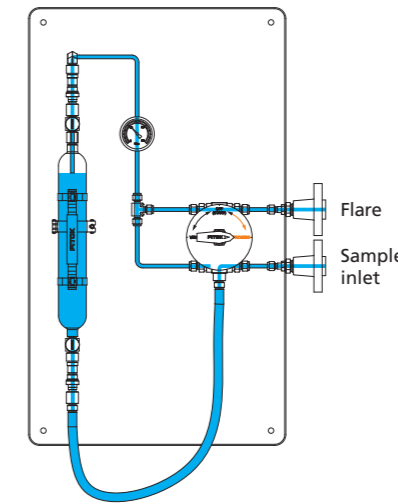


Operations



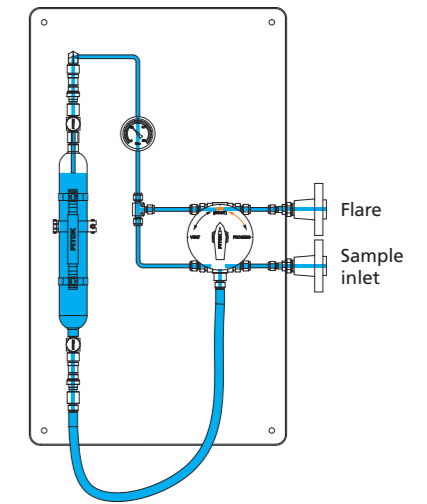
1-off

Install the sample cylinder and connect the flexible hose to the bottom side of the sample cylinder, open the valves at both end of the sample cylinder.



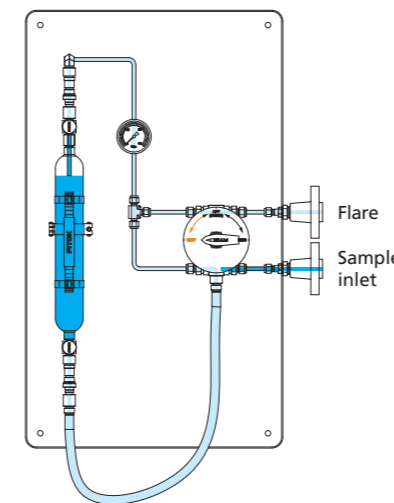
2-sampling

Turn the sampling valve handle to "PROCESS" position, allowing sample to flow into the system and to fill the cylinder, the outage tube ensures a predefined sampling volume, persist for a certain period of time to ensure representative sample.



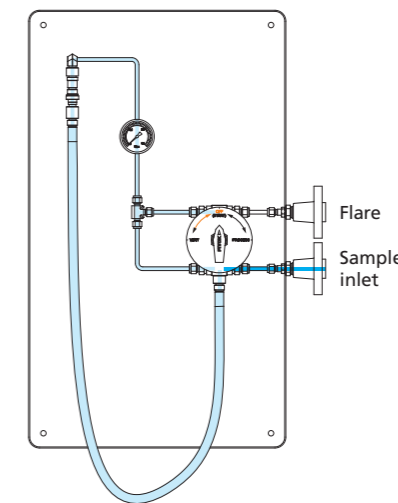
3-off

Turn the sampling valve handle to "OFF" position, turn off the needle valves at both ends of the sample cylinder.



4-vent

Turn the sampling valve handle to "VENT" position to connect the sampling system to flare system, discharge the sampling system pressure.



5-off

Turn the sampling valve handle to "OFF" position, disconnect the flexible hose and remove the sample cylinder, then connect the flexible hose to the top quick connect, the sampling process is completed.

G Series-Gas Sampling

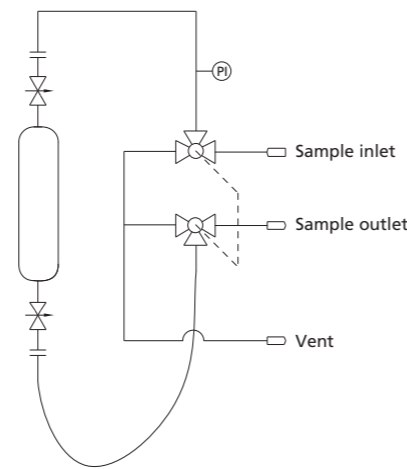
SCGG1-Circulation Configuration

Features

- ⦿ Sampling directly from process or system
- ⦿ Pressure range: 0 to 1450 psig (0 to 100 bar)
- ⦿ Closed sampling
- ⦿ Sample circulation
- ⦿ Representative sample
- ⦿ Linkage ball valve design, easy operation

Technical Specifications and Basic Configuration

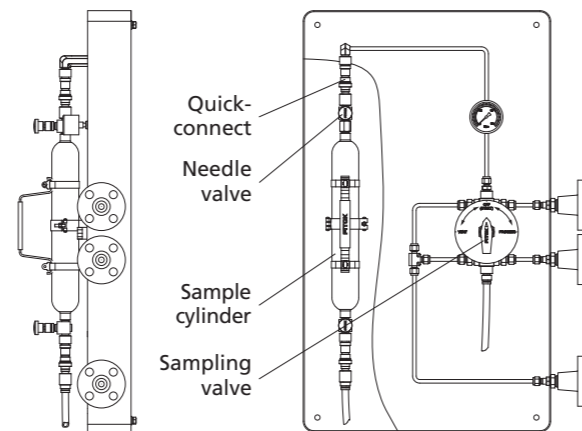
Material	316 SS
Sample Cylinder	500 ml cylinder
	ND series needle valve
Sampling Valve	QC4 series quick connect
	BF Series linkage ball valve (Gearbox linkage)
	PTFE seat and FKM O-ring
	Max. working pressure: 1500 psig (103 bar)
Hose	Temperature range: 0°F to 450°F (-18°C to 232°C)
	PS Series
	PTFE-Lined, 304 SS Braided
	Max. Pressure: 3000 psig (207 bar)
Operation	Working Temp.: -65°F to 400°F (-53°C to 230°C)
	Manual
Connections	NPS 1/2 flange



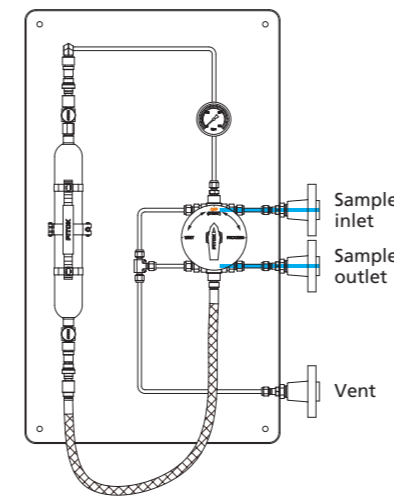
Remarks: The above is a basic specification only, other specifications are available upon requests. If you need other detailed information please contact FITOK group or authorized agent.

Accessories and Options

- ⦿ Lockable handle
- ⦿ Mounting plate
- ⦿ Protective enclosure
- ⦿ Vent outlet carbon absorption
- ⦿ Mounting bracket
- ⦿ Diverse connection types and sizes
- ⦿ Various materials

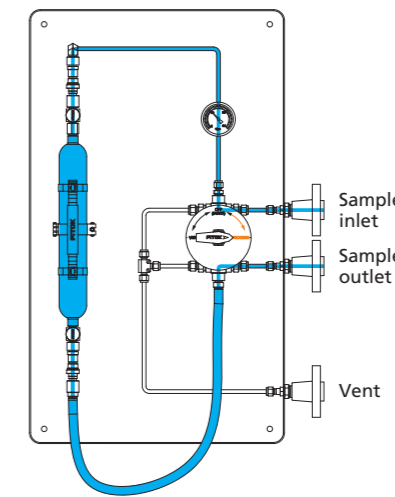


Operations



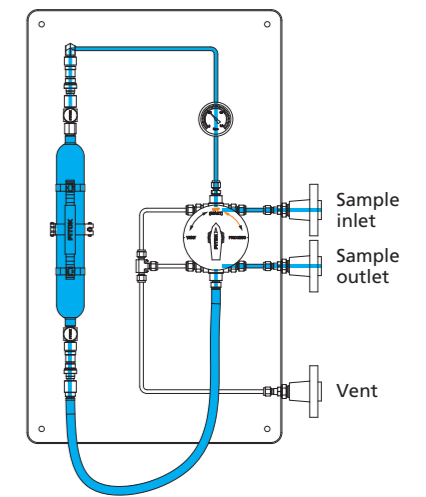
1-off

Install the sample cylinder and connect the flexible hose to the bottom side of the sample cylinder, open the valves at both end of the sample cylinder.



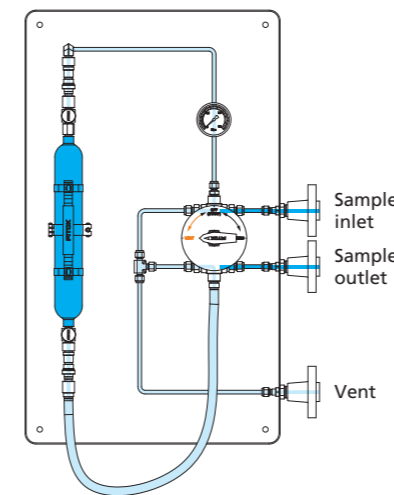
2-sampling

Turn the sampling valve handle to "PROCESS" position, allowing sample to flow into the system and to fill the sample cylinder, persist for a certain period of time to ensure representative sample.



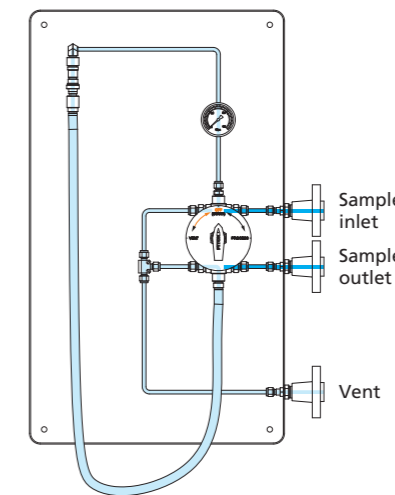
3-off

Turn the sampling valve handle to "OFF" position, turn off the needle valves at both ends of the sample cylinder.



4-vent

Turn the sampling valve handle to "VENT" position to connect the sampling system to vent system, discharge the sampling system pressure.



5-off

Turn the sampling valve handle to "OFF" position, disconnect the flexible hose and remove the sample cylinder, then connect the flexible hose to the top quick connect, the sampling process is completed.



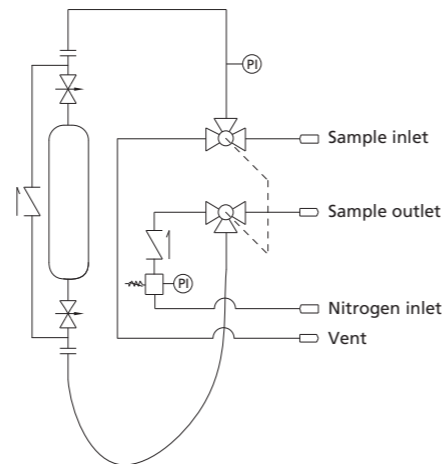
SCGG2-Bypass and System Purge Configuration

Features

- Sampling directly from process or system
- Pressure range: 0 to 1450 psig (0 to 100 bar)
- Closed sampling
- Representative sample
- Sample circulation and system purge
- Linkage ball valve design, easy operation

Technical Specifications and Basic Configuration

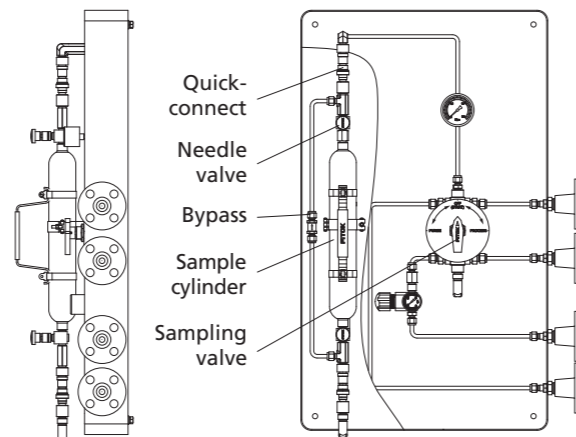
Material	316 SS
Sample Cylinder	500 ml cylinder
	ND series needle valve
	QC4 series quick connect
	CV series check valve
Sampling Valve	BF Series linkage ball valve (Gearbox linkage)
	PTFE seat and FKM O-ring
	Max. working pressure: 1500 psig (103 bar)
Nitrogen branch	Temperature range: 0°F to 450°F (-18°C to 232°C)
	Including pressure regulating valve, check valve and pressure gauge
	Max working pressure of pressure regulating valve: 300 psig (20.7 bar)
Hose	Pressure regulating range: 10 psig to 100 psig (0.7 bar to 7 bar)
	CO series check valve
	PS Series
Operation	PTFE-Lined, 304 SS Braided
	Max. Pressure: 3000 psig (207 bar)
	Working Temp.: -65°F to 400°F (-53°C to 230°C)
Connections	Manual
	NPS 1/2 flange



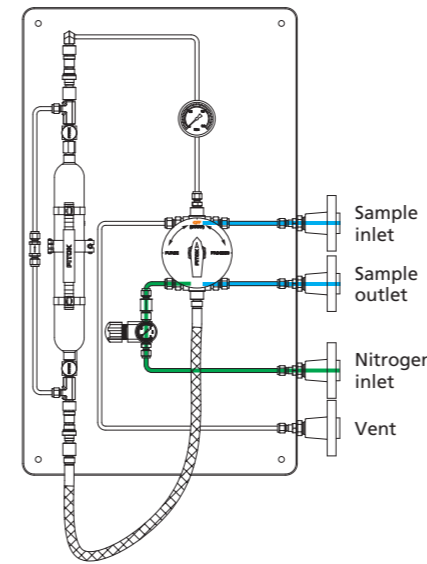
Remarks: The above is a basic specification only, other specifications are available upon requests. If you need other detailed information please contact FITOK group or authorized agent.

Accessories and Options

- Lockable handle
- Mounting plate
- Protective enclosure
- Vent outlet carbon absorption
- Mounting bracket
- Diverse connection types and sizes
- Various materials

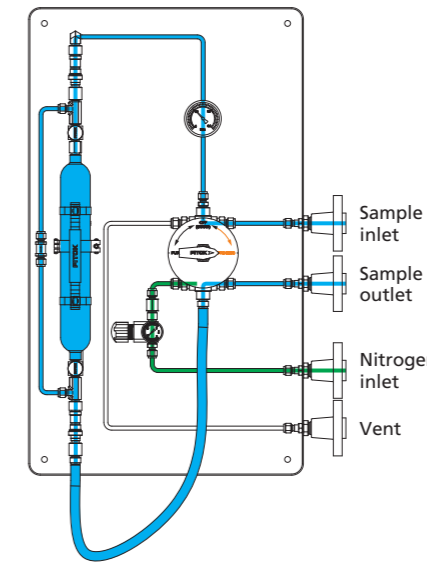


Operations



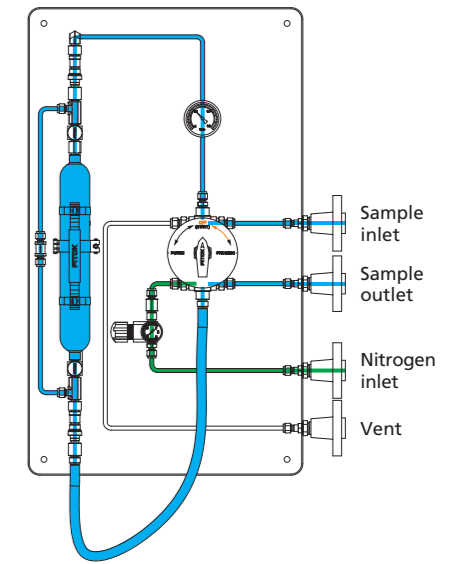
1-off

Install the sample cylinder and connect the flexible hose to the bottom side of the sample cylinder, open the valves at both end of the sample cylinder.



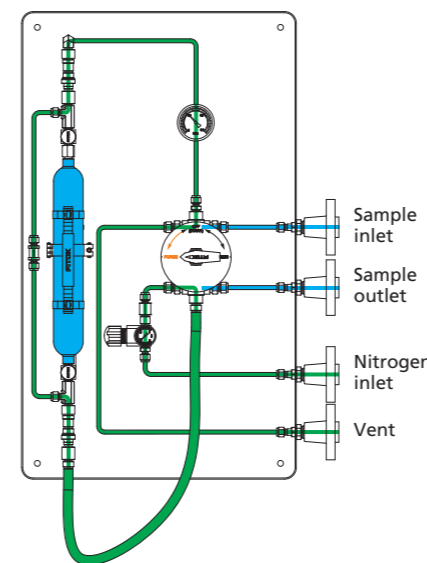
2-sampling

Turn the sampling valve handle to "PROCESS" position, allowing sample to flow into the system and to fill the sample cylinder, persist for a certain period of time to ensure representative sample.



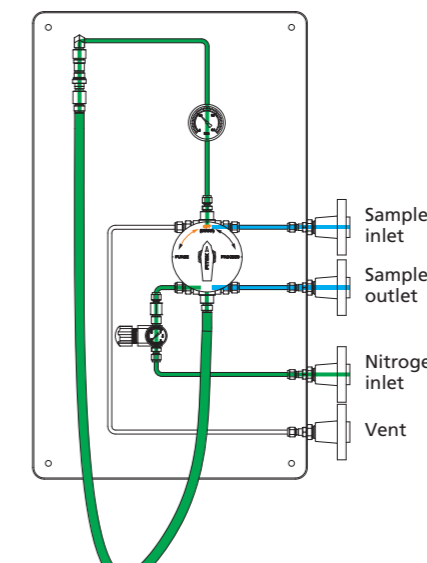
3-off

Turn the sampling valve handle to "OFF" position, turn off the needle valves at both ends of the sample cylinder.



4-purge

Turn the sampling valve handle to "PURGE" position, allowing nitrogen gas to flow through the quick connectors and bypass line to purge the system.



5-off

Turn the sampling valve handle to "OFF" position, disconnect the flexible hose and remove the sample cylinder, then connect the flexible hose to the top quick connect, the sampling process is completed.

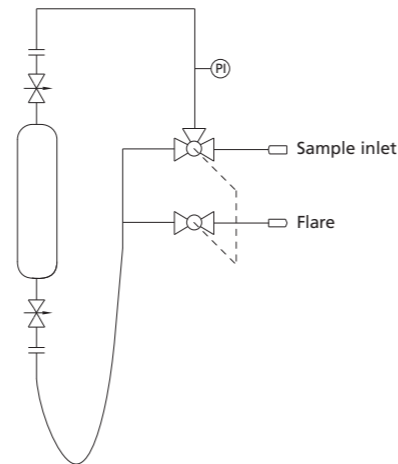
SCGG3-Outlet to Flare Configuration

Features

- Sampling directly from process or system
- Pressure range: 0 to 1450 psig (0 to 100 bar)
- Closed sampling
- Representative sample
- Applicable for sampling from process or system without process out connection
- Linkage ball valve design, easy operation

Technical Specifications and Basic Configuration

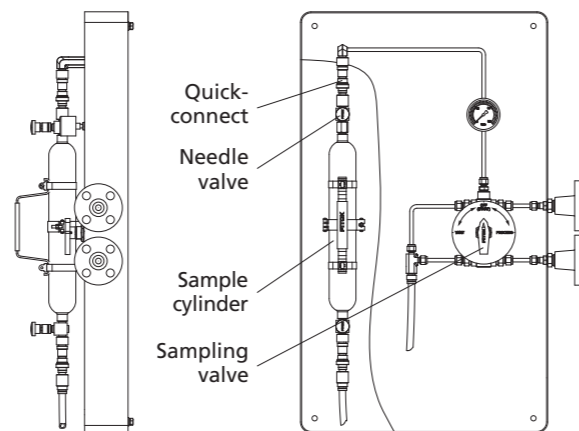
Material	316 SS
Sample Cylinder	500 ml cylinder
	ND series needle valve
	QC4 series quick connect
Sampling Valve	BF Series linkage ball valve (Gearbox linkage)
	PTFE seat and FKM O-ring
	Max. working pressure: 1500 psig (103 bar)
	Temperature range: 0°F to 450°F (-18°C to 232°C)
Hose	PS Series
	PTFE-Lined, 304 SS Braided
	Max. Pressure: 3000 psig (207 bar)
	Working Temp.: -65°F to 400°F (-53°C to 230°C)
Operation	Manual
Connections	NPS 1/2 flange



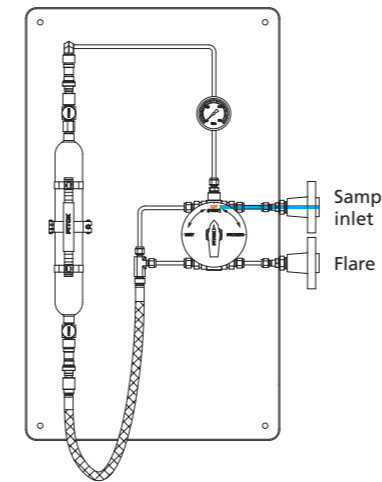
Remarks: The above is a basic specification only, other specifications are available upon requests. If you need other detailed information please contact FITOK group or authorized agent.

Accessories and Options

- Lockable handle
- Mounting plate
- Protective enclosure
- Vent outlet carbon absorption
- Mounting bracket
- Diverse connection types and sizes
- Various materials

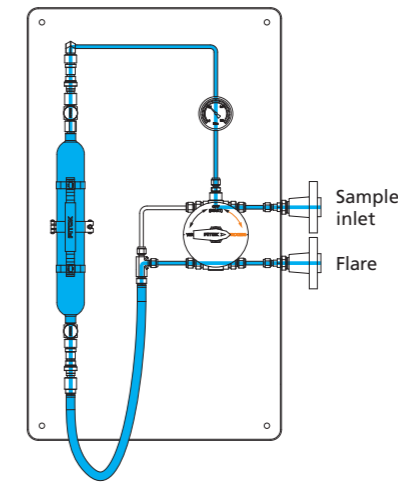


Operations



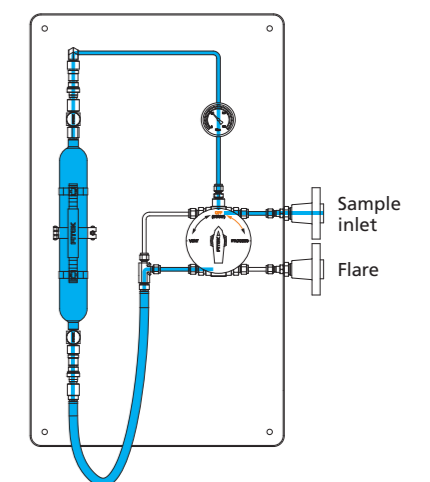
1-off

Install the sample cylinder and connect the flexible hose to the bottom side of the sample cylinder, open the valves at both end of the sample cylinder.



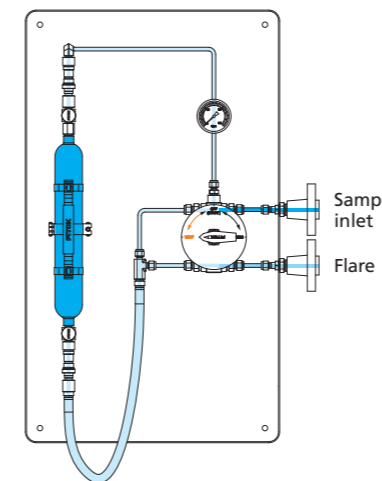
2-sampling

Turn the sampling valve handle to "PROCESS" position, allowing sample to flow into the system and to fill the sample cylinder, persist for a certain period of time to ensure representative sample.



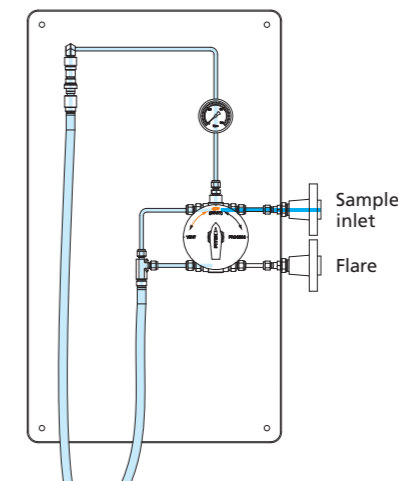
3-off

Turn the sampling valve handle to "OFF" position, turn off the needle valves at both ends of the sample cylinder.



4-vent

Turn the sampling valve handle to "VENT" position to connect the sampling system to flare system, discharge the sampling system pressure.



5-off

Turn the sampling valve handle to "OFF" position, disconnect the flexible hose and remove the sample cylinder, then connect the flexible hose to the top quick connect, the sampling process is completed.



Sample Recovery System

SR Series

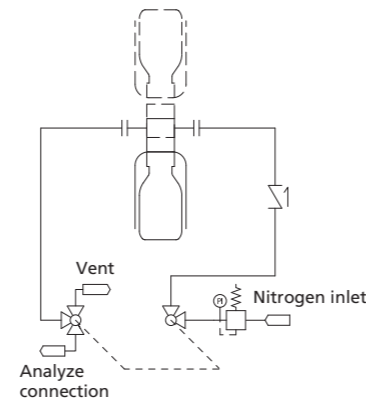
SRB-Sampling Bottle Samples Recovery System

Features

- ⦿ Applicable for sample recovering from sampling bottle
- ⦿ Closed recovering
- ⦿ Without overflowing
- ⦿ Linkage ball valve design, easy operation

Technical Specifications and Basic Configuration

Material	316 SS
Sleeve	300 ml sleeve with bottle retaining clip
Needle assembly	Body, process / vent needle
	Process / vent needle ID: 0.06" (1.5 mm)/ 0.12" (3 mm)
Analyze valve	BF Series linkage ball valve (Gearbox linkage)
	PTFE seat and FKM O-ring
	Max. working pressure: 1500 psig (103 bar)
	Temperature range: 0°F to 450°F (-18°C to 232°C)
Nitrogen branch	Including pressure regulating valve, check valve and pressure gauge
	Max working pressure of pressure regulating valve: 300 psig (20.7 bar)
	Pressure regulating range: 10 psig to 100 psig (0.7 bar to 7 bar)
	CO series check valve
Operation	Manual
Connections	1/4 female NPT



Remarks: The above is a basic specification only, other specifications are available upon requests. If you need other detailed information please contact FITOK group or authorized agent.

Accessories and Options

- ⦿ Diverse connection types and sizes
- ⦿ Various materials

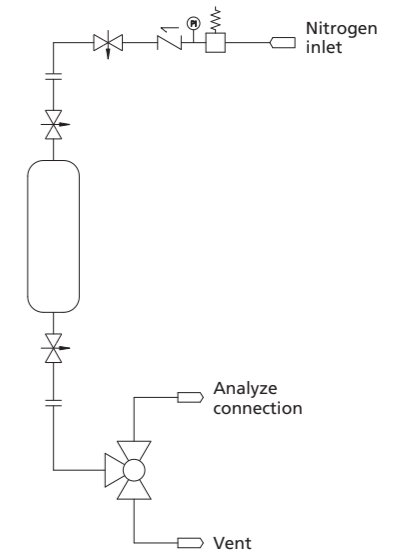
SRC-Sampling Cylinder Samples Recovery System

Features

- ⦿ Applicable for sample recovering from Sampling cylinder
- ⦿ Closed recovering
- ⦿ Without overflowing

Technical specifications and basic configuration

Material	316 SS
Sampling cylinder	500 ml cylinder
	ND series needle valve
	QC4 series quick coupling
Analyze valve	BF Series linkage ball valve (Gearbox linkage)
	PTFE seat and FKM O-ring
	Max. working pressure: 1500 psig (103 bar)
Nitrogen branch	Temperature range: 0°F to 450°F (-18°C to 232°C)
	Including pressure regulating valve, check valve, pressure gauge and needle valve
	Max working pressure of pressure regulating valve: 300 psig (20.7 bar)
	Pressure regulating range: 0.7 bar to 7 bar (10 psig to 100 psig)
Metal flexible Hose	CO series check valve, ND series needle valve
	PS Series
	PTFE-Lined, 304 SS Braided
Operation	Max. Pressure: 207 bar (3000 psig)
	Working Temp.: -65°F to 400°F (-53°C to 204°C)
Connections	Manual
	1/4 female NPT



Remarks: The above is a basic specification only, other specifications are available upon requests. If you need other detailed information please contact FITOK group or authorized agent.

Accessories and Options

- ⦿ Diverse connection types and sizes
- ⦿ Various materials

Spare Parts and Tools

Sample Bottle

Bottle

Material

- ☉ Soda Lime Glass
Soda Lime Glass have good corrosion resistance to most chemicals, and can resist slight mechanical shock. Working temperature 104°F (40°C), Maximum temperature 248°F (120°C).
- ☉ Amber calcium sodium glass
Amber calcium sodium glass have good corrosion resistance to most chemicals, it can resist slight mechanical shock. And can protect the sample from ultraviolet ray, it is a good container for photosensitive samples. Working temperature 104°F (40°C), Maximum temperature 248°F (120°C).
- ☉ Borosilicate glass
Borosilicate glass has a high resistance to acid and high concentration of acid mixture, chlorine, bromine, iodine, and organic matter. It is widely used under 752°F (400°C). Maximum temperature: 932°F (500°C).
- ☉ Polyethylene
Polyethylene is one kind of organic plastic which has many advantages and is widely used in industrial production. It present a translucent or opaque state, and has certain elasticity, not easily broken. The highest heat resistance temperature is 230°F (110°C), short time heat resistance temperature up to 248°F (120°C).
- ☉ Polypropylene
Polypropylene is a kind of translucent materials, can take the place of polyethylene. Compared with polyethylene, it has better heat resistance, the highest temperature resistance is 275°F (135°C). It is widely used for medical clinical disinfection container.

Datasheet and Ordering Information

Material	Order Code	Volume (ml/cc)			Size in. (mm)		Match Size in. (mm)
		Standard	Max	Real	Diameter	Height	
Soda Lime Glass	G1	1	2	1	0.47" (12)	1.535" (39)	0.47" (12)
	G2	2	2	1	0.47" (12)	1.535" (39)	0.47" (12)
	G60	60	64	60	1.535" (39)	3.66" (93)	0.59" (15)
	G100	100	114	111	2.047" (52)	3.82" (97)	1.1" (28)
	G300	300	337	331	2.795" (71)	5.315" (135)	1.1" (28)
	G500	500	509	502	3.03" (77)	7.01" (178)	1.26" (32)
	G1000	1000	1050	1040	3.976" (101)	8.15" (207)	1.77" (45)

1. For sample bottle of other material, the volume follow the soda lime glass, the ordering number: Calcium sodium-G; Amber calcium sodium glass-AG; Borosilicate glass-BG Polyethylene-PT; Polypropylene-PP; Identifying model: code+volume like AG300 means 300 ml amber calcium sodium glass bottle.
2. The soda lime glass, amber calcium glass, borosilicate glass bottle can be coated to strength the ability of mechanical shock resistance, to avoid glass flying when emergency, Identifying model: code + volume+T, for example G300T means 300ml soda lime glass bottle with coated.

Bottle Cap

Ordering Information

Order Code	Material	Match Size in. (mm)
AL12	Aluminum	0.47" (12)
AL15	Aluminum	0.59" (15)
AL28	Aluminum	1.1" (28)
AL32	Aluminum	1.26" (32)
AL45	Aluminum	1.77" (45)

Bottle Septum

Material

- ☉ Natural Rubber
Natural rubber has excellent mechanical properties and elasticity, and has a high resistance to tear. It is easy aged under the environment of light and ozone. Given its mild chemical properties, it can resist most chemical corrosion in a short period of time.
- ☉ EPDM(Ethylene-Propylene-Diene Monomer)
EPDM has good mechanical properties, elasticity, anti-aging and corrosion resistance.
- ☉ Silicon Rubber
Silicone rubber has good mechanical properties and elasticity, the most prominent feature is its heat resistance and oxidation resistance, almost no aging, and insoluble in almost any non fat solvents.
- ☉ Butyl rubber with PTFE coating
Combines the corrosion resistance of PTFE and the flexibility of butyl rubber. PTFE contact with samples, butyl rubber for seal.
- ☉ Silicon Rubber with PTFE Coating
Combines of PTFE corrosion resistance and heat resistance of silicone rubber.
- ☉ Fluorous Rubber
Fluorine rubber has high temperature resistance and corrosion resistance, and can solve the isolated problem for most of samples.

Specification

Material	Seal	Max Tem. °F (°C)	Aging resistance	Corrosion resistance	Max. needle size in. (mm)
Natural Rubber	A	248 (120)	C	C	0.236" (6)
EPDM	A	257 (125)	A	B	0.236" (6)
Silicon Rubber	B	428 (220)	A	B	0.118" (3)
Butyl rubber with PTFE coating	B	293 (145)	A	A	0.118" (3)
Silicon Rubber with PTFE Coating	B	428 (220)	A	A	0.118" (3)
Fluorous Rubber	C	482 (250)	A	A	0.118" (3)

A: Excellent B: Good C: Normal

Ordering Information

Material	Order Code	Match Size in. (mm)	Thickness in. (mm)
Natural Rubber	T12×3	0.47" (12)	0.118" (3)
	T15×3	0.59" (15)	0.118" (3)
	T28×3	1.1" (28)	0.118" (3)
	T32×3	1.26" (32)	0.118" (3)
	T45×4	1.77" (45)	0.157" (4)

For bottle septum of other material, the size please follow the natural rubber's, the ordering number: natural rubber-T; EPDM-E; silicone rubber-V; Butyl rubber with PTFE-IP; silicone rubber with PTFE-VP, Fluorous rubber-F; Identifying model: code + size. For example, IP28X3 means 28X3mm Butyl rubber with PTFE Coating bottle septum.

The ordering number of bottle cap and septum depends on the bottle volume, different bottle volume matches different cap and septum, for details please refer to the bottle, cap, septum match size. Normally bottle cap and septum are disposable items, please change the cap and septum before re-sampling.

Other Spare Parts

Ball Valve

Features for BF&BFH Series

- Forged body with end connectors
- Body materials: 316 SS, 316L SS, 904L SS, and alloy 400
- Seat materials: PTFE, PCTFE and PEEK
- Packing materials: fluorocarbon FKM and PTFE
- End connections:
 - 1/8 to 1/2 female NPT
 - 1/4" to 1/2" and 6 mm to 12 mm tube fitting
- Orifice size: 0.19" (4.8 mm)
- Maximum working pressure:
 - BF Series: 6000 psig (414 bar)
 - BFH Series: 10 000 psig (689 bar)
- Working temperature: 0°F to 450°F (-18°C to 232°C)



Features for BO Series

- 1-piece forged body, top entry
- Body materials: 316 SS, 316L SS, 304 SS, 321 SS, 304L SS, 904L SS, alloy 400, and brass
- Seat materials: PTFE and UHMWPE
- Flow patterns: 2-way, 3-way, 4-way, 5-way, 6-way and 7-way
- End Connections:
 - 1/8 to 1/2 female thread
 - 1/16" to 3/4" and 3 mm to 18 mm tube fitting
- Orifice sizes: 0.05" (1.3 mm) to 0.41" (10.3 mm)
- Maximum working pressure: 3000 psig (207 bar)
- Working temperature: -65°F to 300°F (-54°C to 148°C)



Needle Valve

Features for ND Series

- One-piece forged body
- Body materials: 316 SS, 316L SS, 304 SS, 304L SS, Alloy 400 and brass, other material please contact with manufacture
- Orifice (mm): 2, 4, 6.4
- Maximum working pressure: 3000 psig (20.7 Mpa)
- Working temperature: -20°F to 450°F (-28°C to 232°C)
- Designed handle to prevent contaminants from entering into the valve
- Non-rotating stem, soft stem tip
- End connections type and size:
 - 1/8" to 1/2", M10 to M20 thread
 - 1/4" to 1/2", 3 mm to 12 mm tube fitting



Stainless Steel Braided Hose Assemblies

Features for PS Series

- Lightweight construction for easy handling and installation
- Core tube material: smooth virgin PTFE
- Overbraid material: 304 stainless steel
- Maximum working pressure: 3000 psig (207 bar)
- Hose sizes: 1/4" to 1"
- Working temperature: -65°F to 400°F (-53°C to 204°C)
- End connections:
 - 1/8 to 1 thread
 - 1/8" to 1" and 6 mm to 22 mm tube fitting
- Standard and custom-length available



Quick-Connects

Features for QC Series

- Maximum working pressure: 3000 psig (207 bar)
- Working temperature:
 - 10°F to 400°F (-23°C to 204°C) with Fluorocarbon FKM seal
 - 10°F to 250°F (-23°C to 121°C) with Buna N seal
- Materials: stainless steel or brass
- End connections: 1/8 to 1/2 NPT, 1/8" to 1/2" and 6 mm to 12 mm tube fitting and 1/4" to 1/2" hose connectors
- Reliable, leak-tight O-ring seals for vacuum or pressure systems
- Mix-interchangeable with other main brands
- Single-end shutoff, double-end shutoff, and full-flow quick-connects available
- Simple push-to-connect coupling for quick and easy operation
- Sturdy locking mechanism with large contact area to ensure reliable stem retainment



Pressure Reducing Regulator

Features for PR Series

- Maximum inlet pressure: 500, 3000 psig
- Outlet pressure ranges: 0~25, 0~50, 0~100, 0~250, 0~500 psig
- Flow coefficient (Cv):
 - 500 psig Inlet pressure: 0.15
 - 3000 psig Inlet pressure: 0.06
- Working temperature: -40°F~+165°F (-40°C~+74°C)
- Leak rate:
 - Internal: Bubble-tight
 - External: $\leq 2 \times 10^{-8}$ atm · cc/sec He
- Convoluted diaphragm provides accurate pressure adjustment
- Metal-to-metal diaphragm seal
- Spring loaded pressure reducing regulator
- A filter installed in inlet
- Panel mounting available



Check Valve

Features for CO Series

- ⦿ Compact, one piece body
- ⦿ Maximum working pressure: 3000 psig (207 bar)
- ⦿ Working temperature: -10°F to 375°F (-23°C to 190°C)
- ⦿ Cracking pressure: 1/3 to 25 psig (0.02 to 1.7 bar)
- ⦿ Body materials: stainless steel, brass, carbon steel, and alloy
- ⦿ End connections:
 - 1/4 to 1/2 NPT
 - 1/4 to 1/2 BSPT



Sample Cylinders

Features for SC Series

- ⦿ Maximum working pressure: 5000 psig (345 bar)
- ⦿ Volume varies from 40 to 3785 cm³
- ⦿ 304L, 316L stainless steel and alloy 400, resist intergranular corrosion
- ⦿ Seamless tubing body provides consistent wall thickness, size and capacity
- ⦿ Cylinder inlet ends are 1/8, 1/4 and 1/2 female NPT connections
- ⦿ Heavy wall end connections provide strength and are flaring-resistant
- ⦿ Full-penetration gas tungsten arc-weld construction provides leak-tight sample containment



Pressure Gauge

Features for GA Series

- ⦿ 63 mm and 100 mm dial sizes are available
- ⦿ The accuracy is according to ASME B40.1, EN 837-1, JIS B7505
- ⦿ High pressure measurement up to 100 Mpa
- ⦿ 14x1.5, 20x1.5 Male Metric Thread, 1/4", 1/2" Male NPT, 1/4", 3/8", 1/2", 6 mm, 10 mm, 12 mm tube adapter or other fitting types and sizes are available
- ⦿ The degree of protection is IP65
- ⦿ Hermetically sealed construction
- ⦿ Tube adapter align the dial to the desired position
- ⦿ Lower Mount, Center-Back Mount and Lower-Back Mount are provided
- ⦿ Design is liquid fillable



Tools for Tubing and Tube Fitting

Hand Tube Benders

Features for HTB Series

- ⦿ Can bend stainless steel or copper tubing, the outside diameter ranges from 1/4" to 1/2" and 6 mm to 12 mm.
- ⦿ Roll dies reduce bending force and tube ovality, as compared to conventional slide block design.
- ⦿ 1° to 180° bending range



Tube Cutters

- ⦿ For cutting stainless steel, copper, and aluminum tubing.
- ⦿ For cutting 1/8" to 2 5/8" and 3 mm to 65 mm outside diameter tubing.



Tube Deburring Tools

- ⦿ For deburring tubing made from stainless steel, carbon steel, aluminium, and copper materials.
- ⦿ For deburring 1/4" to 1 1/4" and 6 mm to 35 mm outside diameter tubing.



Manual Presetter Tools

Features for MPT Series

- ⦿ For 1/4" to 1" and 6 mm to 25 mm tube fittings



Remarks: for more information, please refer to FITOK relative product catalogues or contact FITOK group or authorized agent.

Warning

1. Before the installation, be sure relief or empty the pressure.
2. Be used beyond the design pressure/temperature rating is prohibited
3. If any leaking or blocking in sampling system, shut off the isolate valve immediately and let professionals do the repair or replacement.
4. For sample bottle configuration sampling system, each sampling volum shall not exceed the sampling needle.
5. For sampling system without nitrogen purging, the system may remain a small amount of sample after sampling, please follow the operation instruction strictly, do not use the sample system abusively
6. For pipe welding, to prevent the welding slag drops in the system and causes system block and valve damage, the pipeline shall be purged before system installation.
7. If nitrogen gas purge is not available, other alternative inert gas can be use according to the working condition.

Technical Specification Sheet

(Necessary information for Closed-loop sampling system selection and enquiry)

Technical Parameter

Medium Name: _____ Medium physical phase: Liquid Liquefied Gas Gas
 Inlet Pressure: _____ Outlet Pressure: _____ Medium temperature: _____ Medium viscosity: _____
 Solid particle in sample: Yes No Particle CBM.: _____ Particle Density: _____ %

Sample Parameter

Standard liquid Liquid need to be purged Liquid need to be recycled
 Liquefied Gas Liquefied Gas need to be purged Liquefied Gas need to be circulated
 Standard gas Gas need to be purged Gas need to be circulated
 Acid medium Non-acid medium _____
 Sampling bottle volume: _____ Sampling cylinder volume: _____

Material of medium contact surfaces

316 SS 316L SS 304L SS 304 SS PTFE Other _____

Connection type and size

Inlet type: _____ Inlet size: _____
 Outlet type: _____ Outlet size: _____
 Nitrogen connection type: _____ Nitrogen connection size: _____
 Vent type: _____ Vent size: _____

Other

Sample recovery port pressure: _____ Recovery port check valve: Yes No Recover to: Fire Ground Air
 Sample cooling: Yes No Heating: Steam Electricity No
 Protective enclosure: Yes No Type _____
 Installation Type: Wall mounted Bracket Other _____

Noted/draft drawing/ other special requirement: _____