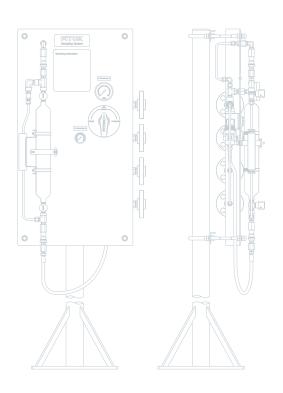
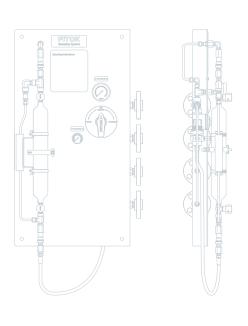
Cylinder Configuration Sampling Systems for Gases







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CG - Cylinder Configuration Sampling Systems for Gases

CGG1 - System Purge Type

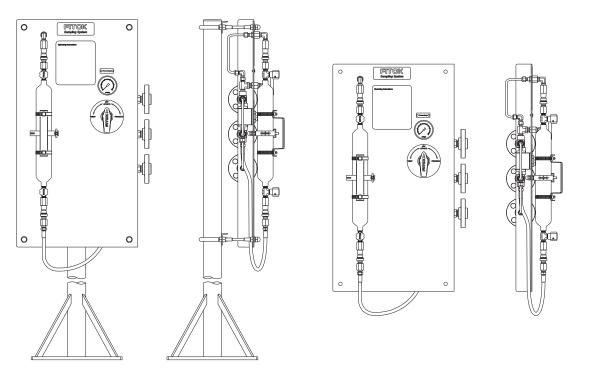
Features

- Sampling from devices or process lines
- System purge
- © Easy operation with a single handle

Basic Configuration

Wetted Material	316 SS	
	500 ml cylinder	
Cylinder Assembly	ND Series needle valves	PI)
	QC4 Series quick-connects	
Sampling Valve	BF Series ball valves (gearbox linkage): PTFE seat and FKM O-ring Max. working pressure: 1500 psig @ 70°F (103 bar @ 20°C) Temperature range: 0°F to 450°F (-18°C to 232°C)	Sample inlet Sample outlet
Other Accessories	PS Series metal hoses	
	Pressure gauge	Synams .
Connections	NPS 1/2 flange	0000

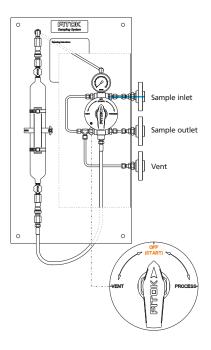
Note: Products of other specifications are available upon request.





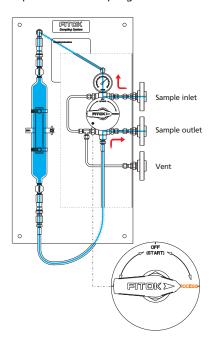
1 - Preparation

Install the sample cylinder and connect the hose to the bottom side of the cylinder. Open the needle valves at both ends of the cylinder.



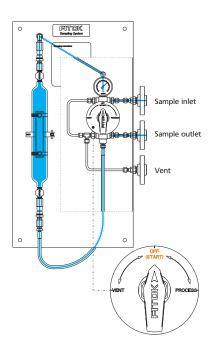
2 - Sampling

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



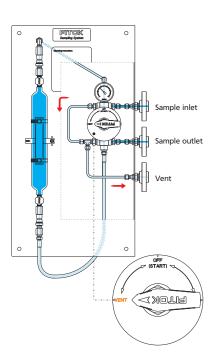
3 - Off

Turn the handle to the "OFF" position. Close the needle valves at both ends of the cylinder.



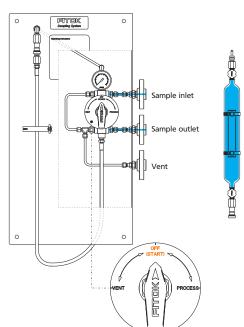
4 - Depressurization/vent

Turn the handle to the "VENT" position, connecting the sampling line with the vent line to depressurize and discharge the residual sample.



5 - Off

Turn the handle to the "OFF" position and disconnect the hose. Remove the cylinder and connect the hose to the top quick-connect to complete the sampling process.





CGG2 - Bypass and System Purge Type

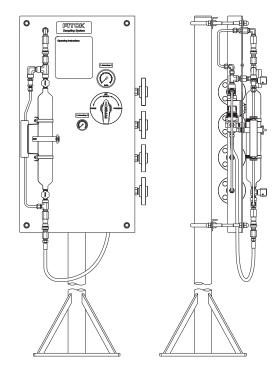
Features

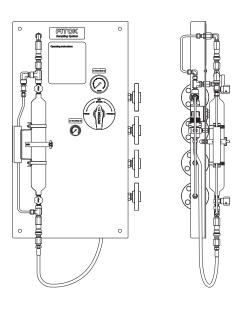
- O Sampling from devices or process lines
- System purge
- © Easy operation with a single handle

Basic Configuration

Wetted Material	316 SS	
	500 ml cylinder	
Cylinder Assembly	ND Series needle valves	
Cyllider Assembly	QC4 Series quick-connects	
	CV Series check valves	
Sampling Valve	BF Series ball valves (gearbox linkage): PTFE seat and FKM O-ring Max. working pressure: 1500 psig @ 70°F (103 bar @ 20°C) Temperature range: 0°F to 450°F (-18°C to 232°C)	Sample inlet Sample outlet
Nitrogen Branch	Nitrogen regulator CV Series check valves	
	Pressure gauge	S N
Other Accessories	PS Series metal hoses	Some
	Pressure gauge	
Connections	NPS 1/2 flange	

Note: Products of other specifications are available upon request.

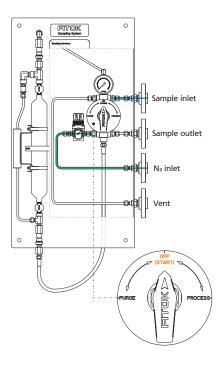






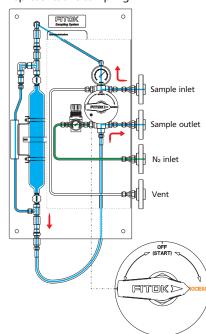
1 - Preparation

Install the sample cylinder and connect the hose to the bottom side of the cylinder. Open the needle valves at both ends of the cylinder.



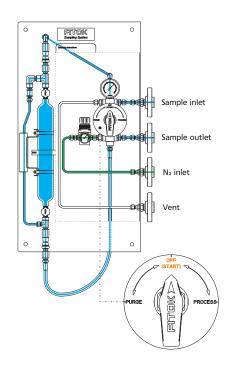
2 - Sampling

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



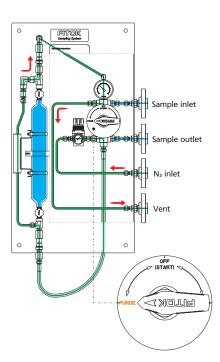
3 - Off

Turn the handle to the "OFF" position. Close the needle valves at both sides of the cylinder.



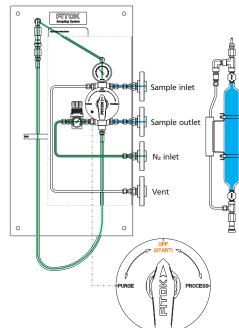
4 - Purge

Turn the handle to the "PURGE" position, allowing Nitrogen to flow through the quick-connects and bypass to push the residual sample out of the system.



5 - Off

Turn the handle to the "OFF" position and disconnect the hose. Remove the cylinder and connect the hose to the top quick-connect to complete the sampling process.





CGG3 - Vent to Flare Type

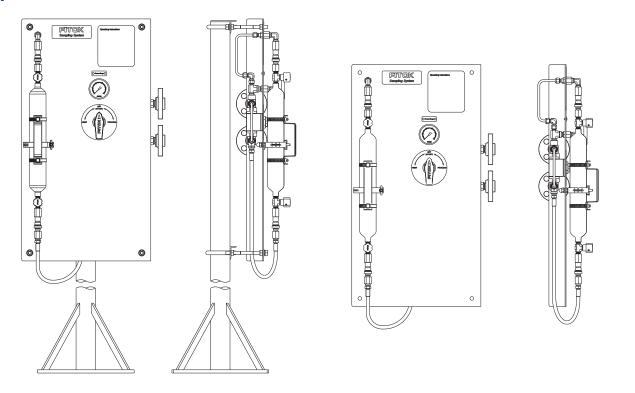
Features

- Sampling from devices or process lines
- O System purge to flare (no circulation loop)
- © Easy operation with a single handle

Basic Configuration

Wetted Material	316 SS	
	500 ml cylinder	PD
Cylinder Assembly	ND Series needle valves	
	QC4 Series quick-connects	
Sampling Valve	BF Series ball valves (gearbox linkage): PTFE seat and FKM O-ring Max. working pressure: 1500 psig @ 70°F (103 bar @ 20°C) Temperature range: 0°F to 450°F (-18°C to 232°C)	Sample inlet Flare
Other Accessories	PS Series metal hoses	35
<u> </u>	Pressure gauge	Synnys
Connections	NPS 1/2 flange	

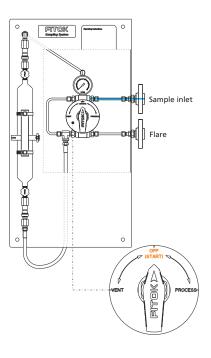
Note: Products of other specifications are available upon request.





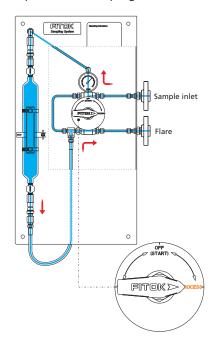
1 - Preparation

Install the sample cylinder and connect the hose to the bottom side of the cylinder. Open the needle valves at both ends of the cylinder.



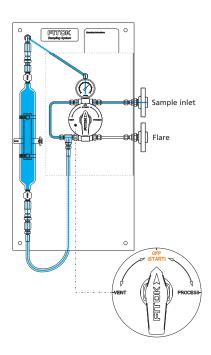
2 - Sampling

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



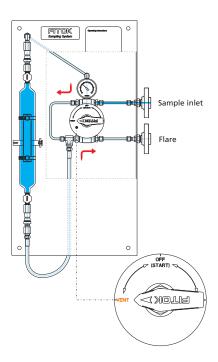
3 - Off

Turn the handle to the "OFF" position. Close the needle valves at both sides of the cylinder.



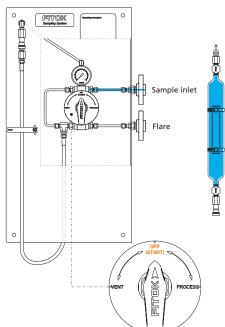
4 - Depressurization/vent

Turn the handle to the "VENT" position, connecting the sampling line to the flare to depressurize and discharge the residual sample out of the system.



5 - Off

Turn the handle to the "OFF" position and disconnect the hose. Remove the cylinder and connect the hose to the top quick-connect to complete the sampling process.







Application Questionnaire for Selection of FITOK Sampling System

I . Cus	tomer Information	Customer Name		End User	
II . Pro	ject Information	Project Name		Site Location	
III. Ted	hnical Parameters				
No.	Section		Specification		
1		Sample/fluid name and composition			
2		Tag number			
3		Fluid phase state	Liquid	○ Gas	O Liquefied gas
4		Design pressure	psig	O bar	
5	Process Data	Operating pressure*1	psig) bar	
6		Saturated vapor pressure*2	psig	Obar	
7		Design temp.	○ °C	○ °F	
8		Operating temp.*3	○ °C	○ °F	
9		Particles* ⁴	Size and Content	-	μm, %
10		Wetted material	316SS (Std.) Alloy	400	oy C-276 Others
11	11 Materials of Construction	O-ring material	○ FKM (Viton)(Std.) ○ F	FKM (Kalrez)	EPDM Others
12		Valve seat material	○ PTFE (Std.) ○ PEEK	OPCTFE	Others
13		Inlet/outlet type and size	Inlet Outl	et	
14	Connection Type	Vent type and size	Vent		
15		Nitrogen port type and size	Nitrogen port	_	
16	Sample Container	Container type	○ Bottle ○ Cylind	der	
17		Bottle volume	○ 50 ml ○ 60 ml ○ 500 ml ○ 1000 ml ○ 32 oz ○ Others		
18	Bottle	Needle assembly size: process needle ID (mm) x vent needle ID (mm)	1.4 x 1.4 (Std.) 2.0 3.0 x 1.4 3.0	0	0 x 2.0 0 x 1.4
19	Bottle	Bottle material	Soda-lime glass (Std.)Polyethylene	Amber glass Polypropyler	-
20		Septum material	_	d.) CEPDM (Natural rubbe	Silicone rubber FKM er Others
21		Cap material	O Polypropylene OPBT	(Polybutylene ter	ephthalate)
22	Cylinder	Cylinder volume	○ 75 ml ○ 150 m ○ 1000 ml ○ 2250	_	00 ml
23	Cylinder	Cylinder material	316L (Std.) 304L Others	◯ Alloy 40	00 PTFE coated





Application Questionnaire for Selection of FITOK Sampling System

				Standard	○Insulated		304SS (Std.) 316SS
24		Enclosure type and material		OHeated by e	electric	y steam	Others
25		Panel		Material	<u>316SS</u>	30455	Others
26	Accessories	Pipe stand		Material	○ 304SS ○	CS20	Others
27		Cooler		Cooling inlet/o	utlet type and size	Inlet	Outlet
28		Steam tracing		Steam inlet/ou	tlet type and size	Inlet	Outlet
29		Others*5					
30	P&ID	Please provide comments or sk	etch if	applicable.			
31	Documentation	Material Certification EN10	204:20	04-3.1	Inspection & tes	ting report	:
32		Others, please specify:					
Remark	*2 Cylinder con *3 Cooler is reco *4 Filter is reco	ampling system is recommended figuration sampling system is recommended when sample temper mmended when particle size >1 ssories (such as: check valve, carboice	comme erature $100\mu\mathrm{m}$	ended when vapo > 140°F (60°C).	or pressure > 10psia		d, please specify.



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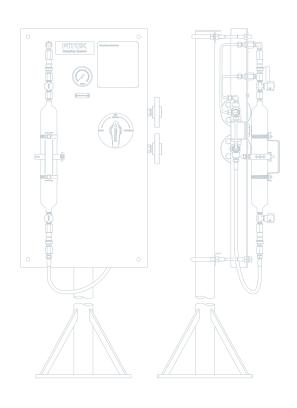
110, 3160 118 Avenue SE Calgary, AB T2Z 3X1 TOLL FREE: 888 770 8899

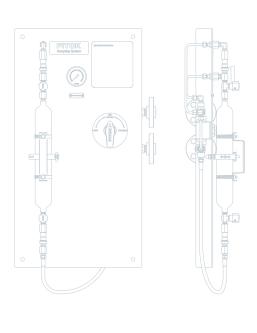
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Cylinder Configuration Sampling Systems for Liquefied Gases







110, 3160 118 Avenue SE Calgary, AB T2Z 3X1 TOLL FREE: 888 770 8899 MAIN: 403 295 3114 EMAIL: ngcsales@ngc-ps.com WEB: ngc-ps.com



CS - Cylinder Configuration Sampling Systems for Liquefied Gases

CSF1 - System Purge Type with Expansion Chamber

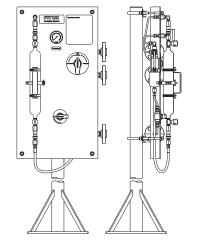
Features

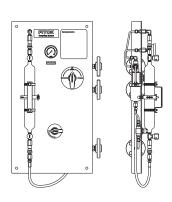
- Sampling from devices or process lines
- System purge
- Predefined sampling volume controlled by an expansion chamber to ensure safe sampling
- © Easy operation with a single handle

Basic Configuration

Wetted Material	316 SS	
	500 ml cylinder	
Cylinder Assembly	ND Series needle valves	
	QC4 Series quick-connects	
Sampling Valve	BF Series ball valves (gearbox linkage): PTFE seat and FKM O-ring Max. working pressure: 1500 psig @ 70°F (103 bar @ 20°C) Temperature range: 0°F to 450°F (-18°C to 232°C)	Sample outlet Sample inlet
Expansion Chamber	100ml, to control the predefined sampling volume to 80% of the cylinder volume	Vent J
Other Accessories	PS Series metal hoses	
	Pressure gauge	
Connections	NPS 1/2 flange	

Note: Products of other specifications are available upon request.

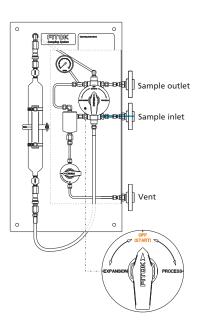






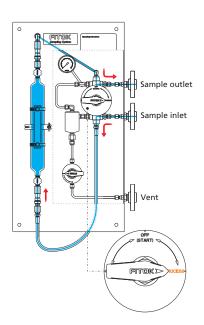
1 - Preparation

Install the sample cylinder and connect the hose to the bottom side of the cylinder. Open the needle valves at both ends of the cylinder.



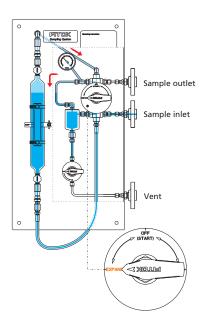
2 - Sampling

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



3 - Expansion

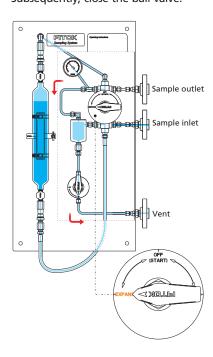
Turn the handle to the "EXPANSION" position, connecting the cylinder with the expansion chamber. Hold for a period of time to transfer a portion of sample to the expansion chamber. Close the needle valves at both ends of the cylinder.



4 - Depressurization/vent

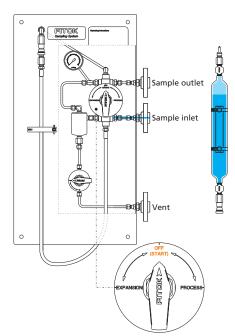
Open the ball valve on the expansion chamber to depressurize and discharge the residual sample out of the sampling line and the expansion chamber.

Subsequently, close the ball valve.



5 - Off

Turn the handle to the "OFF" position and disconnect the hose. Remove the cylinder and connect the hose to the top quick-connect to complete the sampling process.





CSF2 - Expansion Chamber Purge Type

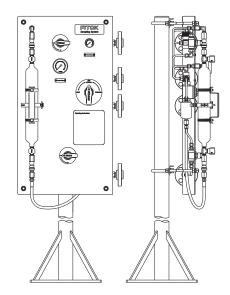
Features

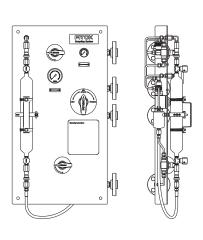
- Sampling from devices or process lines
- O System purge and expansion chamber purge
- O Predefined sampling volume controlled by an expansion chamber to ensure safe sampling
- © Easy operation with a single handle

Basic Configuration

Wetted Material	316 SS	
	500 ml cylinder	
Cylinder Assembly	ND Series needle valves	
	QC4 Series quick-connects	
Sampling Valve	BF Series ball valves (gearbox linkage): PTFE seat and FKM O-ring Max. working pressure: 1500 psig @ 70°F (103 bar @ 20°C) Temperature range: 0°F to 450°F (-18°C to 232°C)	N ₂ inlet Sample out
Nitrogen Branch	Nitrogen regulator CV Series check valves	Sample inle
	Pressure gauge	
Expansion Chamber	100ml, to control the predefined sampling volume to 80% of the cylinder volume	The same of the sa
Other Accessories	PS Series metal hoses	
Other Accessories	Pressure gauge	
Connections	NPS 1/2 flange	

Note: Products of other specifications are available upon request.

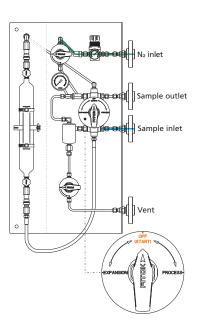






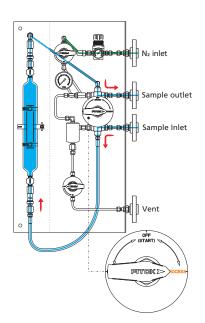
1 - Preparation

Install the sample cylinder and connect the hose to the bottom side of the cylinder. Open the needle valves at both ends of the cylinder.



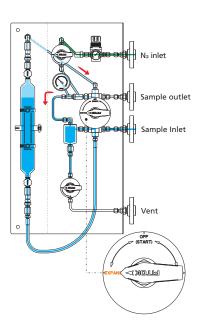
2 - Sampling

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



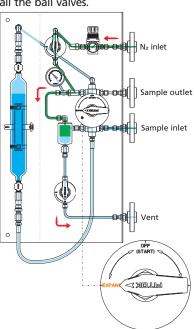
3 - Expansion

Turn the handle to the "EXPANSION" position, connecting the cylinder with the expansion chamber. Hold for a period of time to transfer a portion of sample to the expansion chamber. Close the needle valves at both ends of the cylinder.



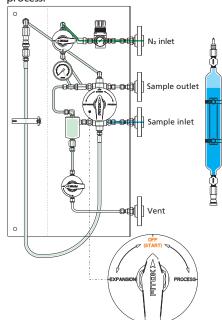
4 - Purge

Open the ball valve on the expansion chamber and the ball valve on the vent branch, allowing Nitrogen to purge the expansion chamber. Subsequently, close all the ball valves.



5 - Off

Turn the handle to the "OFF" position and disconnect the hose. Remove the cylinder and connect the hose to the top quick-connect to complete the sampling process.





CSF3 - Bypass Purge Type with Expansion Chamber

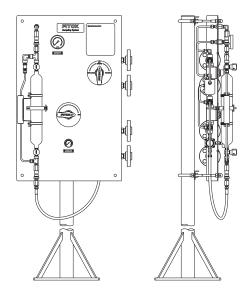
Features

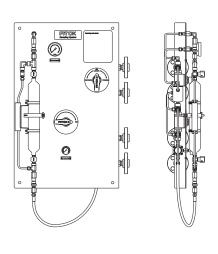
- Sampling from devices or process lines
- System purge and bypass purge
- Predefined sampling volume controlled by an expansion chamber to ensure safe sampling
- © Easy operation with a single handle

Basic Configuration

Wetted Material	316 SS	
	500 ml cylinder	
Cylinder Assembly	ND Series needle valves	
Cylinder Assembly	QC4 Series quick-connects	
	CV Series check valves	
Sampling Valve	BF Series ball valves (gearbox linkage): PTFE seat and FKM O-ring Max. working pressure: 1500 psig @ 70°F (103 bar @ 20°C) Temperature range: 0°F to 450°F (-18°C to 232°C)	Sample outlet Sample inlet
	Nitrogen regulator	
Nitrogen Branch	CV Series check valves	
	Pressure gauge	3
Expansion Chamber	100ml, to control the predefined sampling volume to 80% of the cylinder volume	Sommon 2
Other Accessories	PS Series metal hoses	
Other Accessories	Pressure gauge	
Connections	NPS 1/2 flange	

Note: Products of other specifications are available upon request.

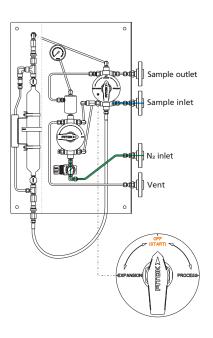






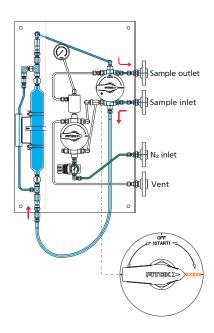
1 - Preparation

Install the sample cylinder and connect the hose to the bottom side of the cylinder. Open the needle valves at both ends of the cylinder.



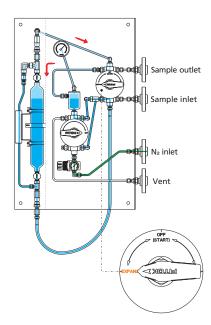
2 - Pre-sampling

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



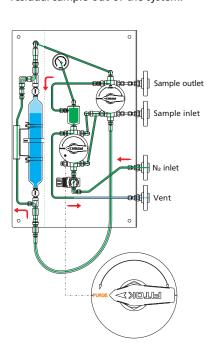
3 - Expansion

Turn the handle to the "EXPANSION" position, connecting the cylinder with the expansion chamber. Hold for a period of time to transfer a portion of sample to the expansion chamber. Close the needle valves at both ends of the cylinder.



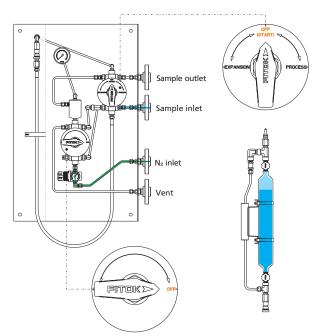
4 - Purge

Turn the handle of the valve on the purge line to the "PURGE" position, allowing Nitrogen to flow through the quick-connects and bypass to push the residual sample out of the system.



5 - Off

Turn the handle to the "OFF" position and disconnect the hose. Remove the cylinder and connect the hose to the top quick-connect to complete the sampling process.





CSF4 - Vent to Flare Type with Expansion Chamber

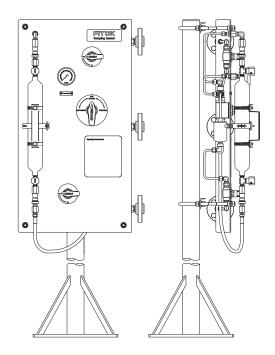
Features

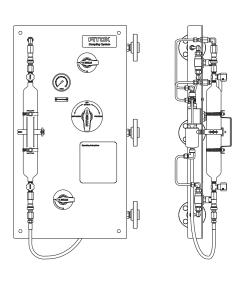
- Sampling from devices or process lines
- O System purge to flare (no circulation loop)
- Predefined sampling volume controlled by an expansion chamber to ensure safe sampling
- © Easy operation with a single handle

Basic Configuration

Wetted Material	316 SS	
	500 ml cylinder	
Cylinder Assembly	ND Series needle valves	
	QC4 Series quick-connects	Flare
Sampling Valve	BF Series ball valves (gearbox linkage): PTFE seat and FKM O-ring Max. working pressure: 1500 psig @ 70°F (103 bar @ 20°C) Temperature range: 0°F to 450°F (-18°C to 232°C)	Sample inlet
Expansion Chamber	100 ml, to control the predefined sampling volume to 80% of the cylinder volume	Vent Vent
Other Accessories	PS Series metal hoses	
Other Accessories	Pressure gauge	
Connections	NPS 1/2 flange	

Note: Products of other specifications are available upon request.

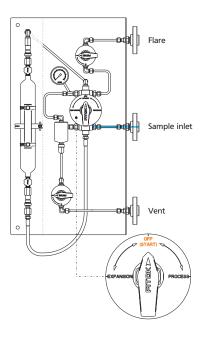






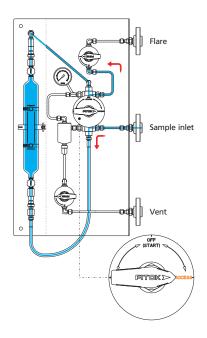
1 - Preparation

Install the sample cylinder and connect the hose to the bottom side of the cylinder. Open the needle valves at both ends of the cylinder.



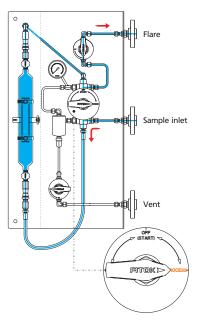
2 - Pre-sampling

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



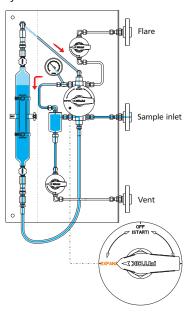
3 - Sampling

Open the ball valve on the flare branch, connecting the sampling line to the flare to allow the sample to flow continuously into the cylinder. Hold for a period of time to ensure representative sampling. Subsequently, close the ball valve.



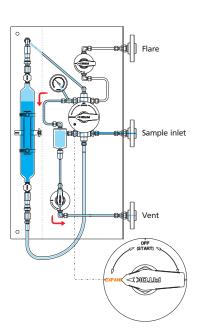
4 - Expansion

Turn the handle to the "EXPANSION" position, connecting the cylinder with the expansion chamber. Hold for a period of time to transfer a portion of sample to the expansion chamber. Close the needle valves at both ends of the cylinder.



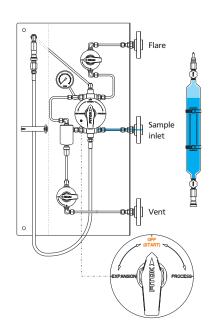
5 - Depressurization/vent

Open the ball valve on the expansion chamber, connecting with the vent line to depressurize and discharge the residual sample out of the system. Subsequently, close the ball valve.



6 - Off

Turn the handle to the "OFF" position and disconnect the hose. Remove the cylinder and connect the hose to the top quick-connect to complete the sampling process.





CSF5 - Outage Tube Type

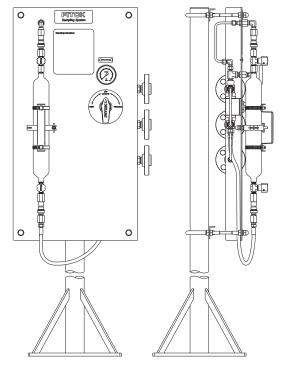
Features

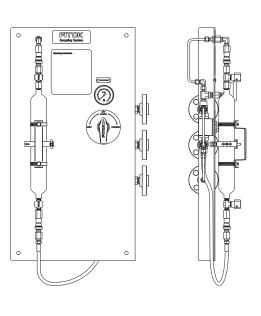
- Sampling from devices or process lines
- System purge
- Predefined sampling volume controlled by an outage tube to ensure safe sampling
- © Easy operation with a single handle

Basic Configuration

Wetted Material	316 SS	
	500 ml cylinder	
Cylinder Assembly	ND Series needle valves	
	QC4 Series quick-connects	
Sampling Valve	BF Series ball valves (gearbox linkage): PTFE seat and FKM O-ring Max. working pressure: 1500 psig @ 70°F (103 bar @ 20°C) Temperature range: 0°F to 450°F (-18°C to 232°C)	Sample outlet Sample inlet
Outage Tube	To control the predefined sampling volume to 80% of the cylinder volume	
Other Accessories	PS Series metal hoses	
Other Accessories	Pressure gauge	
Connections	NPS 1/2 flange	

Note: Products of other specifications are available upon request.

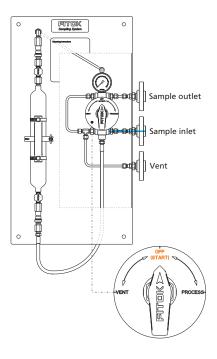






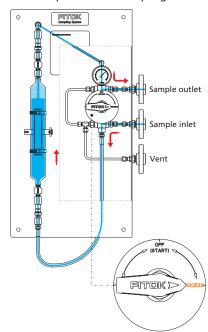
1 - Preparation

Install the sample cylinder and connect the hose to the bottom side of the cylinder. Open the needle valves at both ends of the cylinder.



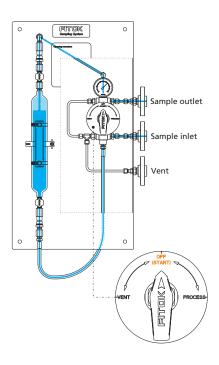
2 - Sampling

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



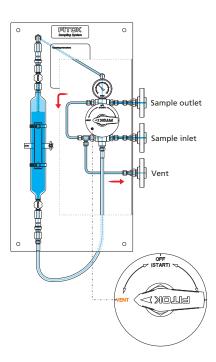
3 - Off

Turn the handle to the "OFF" position. Close the needle valves at both sides of the cylinder.



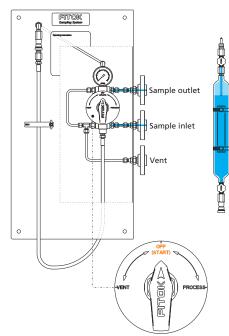
4 - Depressurization/vent

Turn the handle to the "VENT" position, connecting the sampling line with the vent line to depressurize and discharge the residual sample out of the system.



5 - Off

Turn the handle to the "OFF" position and disconnect the hose. Remove the cylinder and connect the hose to the top quick-connect to complete the sampling process.





CSF6 - Bypass Purge Type with Outage Tube

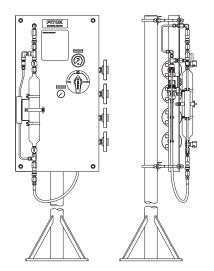
Features

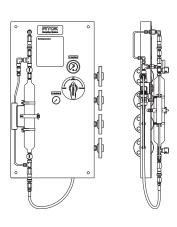
- Sampling from devices or process lines
- System purge and bypass purge
- © Predefined sampling volume controlled by an outage tube to ensure safe sampling
- © Easy operation with a single handle

Basic Configuration

Wetted Material	316 SS	
	500 ml cylinder	
Cylinder Assembly	ND Series needle valves	
Cymruci Assembly	QC4 Series quick-connects	
	CV Series check valves	
Sampling Valve	BF Series ball valves (gearbox linkage): PTFE seat and FKM O-ring Max. working pressure: 1500 psig @ 70°F (103 bar @ 20°C) Temperature range: 0°F to 450°F (-18°C to 232°C)	Sample outlet
	Nitrogen regulator	
Nitrogen Branch	CV Series check valves	
	Pressure gauge	
Outage Tube	To control the predefined sampling volume to 80% of the cylinder volume	Z. Samoning
Other Accessories	PS Series metal hoses	
Other Accessories	Pressure gauge	
Connections	NPS 1/2 flange	

Note: Products of other specifications are available upon request.

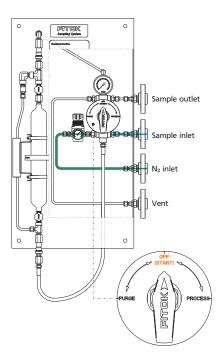






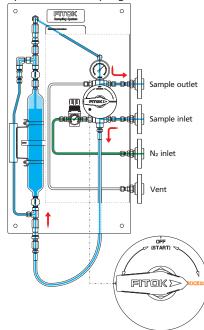
1 - Preparation

Install the sample cylinder and connect the hose to the bottom side of the cylinder. Open the needle valves at both ends of the cylinder.



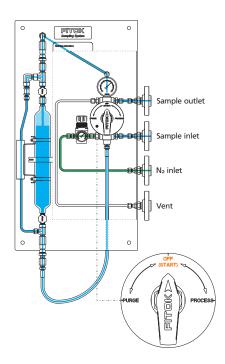
2 - Sampling

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



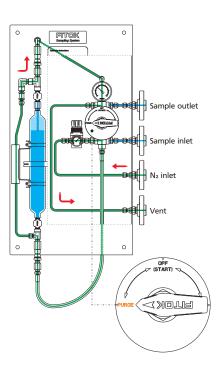
3 - Off

Turn the handle to the "OFF" position. Close the needle valves at both ends of the cylinder.



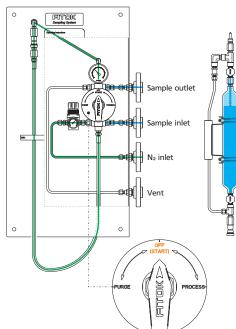
4 - Purge

Turn the handle to the "PURGE" position, allowing Nitrogen to push the the residual sample out of the system.



5 - Off

Turn the handle to the "OFF" position and disconnect the hose. Remove the cylinder and connect the hose to the top quick-connect to complete the sampling process.





CSF7 - Vent to Flare Type with Outage Tube

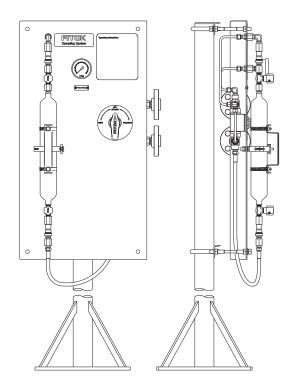
Features

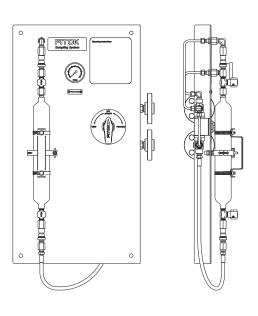
- Sampling from devices or process lines
- System purge to flare (no circulation loop)
- O Predefined sampling volume controlled by an outage tube to ensure safe sampling
- © Easy operation with a single handle

Basic Configuration

Wetted Material	316 SS	
	500 ml cylinder	
Cylinder Assembly	ND Series needle valves]
	QC4 Series quick-connects	
Sampling Valve	BF Series ball valves (gearbox linkage): PTFE seat and FKM O-ring Max. working pressure: 1500 psig @ 70°F (103 bar @ 20°C) Temperature range: 0°F to 450°F (-18°C to 232°C)	Flare
Expansion Chamber	To control the predefined sampling volume to 80% of the cylinder volume	
Other Accessories	PS Series metal hoses	Symmetry Street
Other Accessories	Pressure gauge	
Connections	NPS 1/2 flange	

Note: Products of other specifications are available upon request.

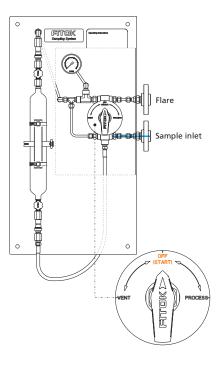






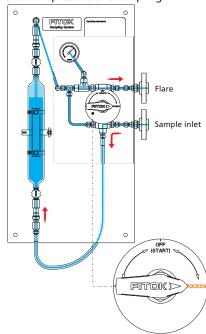
1 - Preparation

Install the sample cylinder and connect the hose to the bottom side of the cylinder. Open the needle valves at both ends of the cylinder.



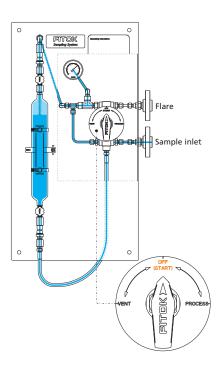
2 - Sampling

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



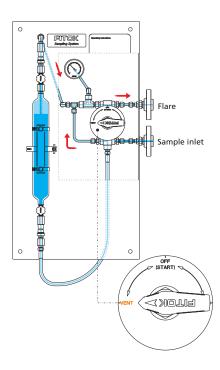
3 - Off

Turn the handle to the "OFF" position. Close the needle valves at both sides of the cylinder.



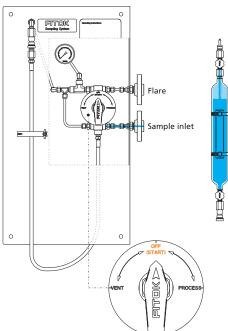
4 - Depressurization/vent

Turn the handle to the "VENT" position, connecting the sampling line to the flare to depressurize and discharge the residual sample out of the system.



5 - Off

Turn the handle to the "OFF" position and disconnect the hose. Remove the cylinder and connect the hose to the top quick-connect to complete the sampling process.







Application Questionnaire for Selection of FITOK Sampling System

I . Customer Information		Customer Name	End User			
II . Pro	ject Information	Project Name	Site Location			
III. Ted	III. Technical Parameters					
No.	Section		Specification			
1		Sample/fluid name and composition				
2		Tag number				
3		Fluid phase state	Liquid	○ Gas	C Liquefied gas	
4		Design pressure	psig	O bar		
5	Process Data	Operating pressure*1	psig) bar		
6		Saturated vapor pressure*2	psig	Obar		
7		Design temp.	○ °C	○ °F		
8		Operating temp.*3	○ °C	○ °F		
9		Particles* ⁴	Size and Content	-	μm, %	
10		Wetted material	316SS (Std.) Alloy	400	oy C-276 Others	
11	Materials of Construction	O-ring material	○ FKM (Viton)(Std.) ○ F	FKM (Kalrez)	EPDM Others	
12		Valve seat material	○ PTFE (Std.) ○ PEEK ○ PCTFE ○ Others			
13		Inlet/outlet type and size	Inlet Outl	et		
14	Connection Type	Vent type and size	Vent			
15		Nitrogen port type and size	Nitrogen port	_		
16	Sample Container	Container type	○ Bottle ○ Cylinder			
17		Bottle volume	○ 50 ml ○ 60 ml ○ 500 ml ○ 1000 ml ○ 32 oz ○ Others			
18	Bottle	Needle assembly size: process needle ID (mm) x vent needle ID (mm)	1.4 x 1.4 (Std.) 2.0 3.0 x 1.4 3.0	0	0 x 2.0 0 x 1.4	
19	Bottle	Bottle material	Soda-lime glass (Std.)Polyethylene	Amber glass Polypropyler	_	
20		Septum material	_	d.) CEPDM (Natural rubbe	Silicone rubber FKM or Others	
Cap material Polypropylene PBT (Polybutylene terephthalate)					ephthalate)	
22	Cylinder	Cylinder volume	○ 75 ml ○ 150 m ○ 1000 ml ○ 2250	_	00 ml	
23	Cymraer	Cylinder material	316L (Std.) 304L Others	◯ Alloy 40	00 PTFE coated	





Application Questionnaire for Selection of FITOK Sampling System

				Standard	○Insulated		304SS (Std.) 316SS
24	Accessories	Enclosure type and material		OHeated by e	lectric \bigcirc Heated b	y steam	Others
25		Panel		Material		30455	Others
26		Pipe stand		Material	○ 304SS ○) CS20	Others
27		Cooler		Cooling inlet/o	utlet type and size	Inlet	Outlet
28		Steam tracing		Steam inlet/ou	tlet type and size	Inlet	Outlet
29		Others*5					
30	P&ID	Please provide comments or sk	etch if	applicable.			
31	Documentation	Material Certification EN10	204:20	04-3.1	Inspection & tes	ting report	t
32		Others, please specify:					
Remark	*2 Cylinder configuration sampling system is recommended when inlet pressure > 150psig (10.3bar). *2 Cylinder configuration sampling system is recommended when vapor pressure > 10psia (0.69bar). *3 Cooler is recommended when sample temperature > 140°F (60°C). *4 Filter is recommended when particle size >100 m. *5 If other accessories (such as: check valve, carbon canister, spring return handle and etc.) are needed, please specify. 6 Single choice Optional						



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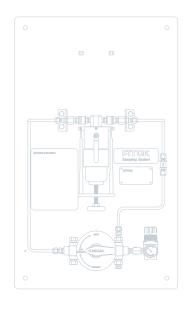
110, 3160 118 Avenue SE Calgary, AB T2Z 3X1 **TOLL FREE:** 888 770 8899

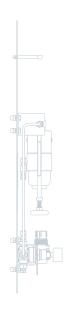
MAIN: 403 295 3114 EMAIL: ngcsales@ngc-ps.com

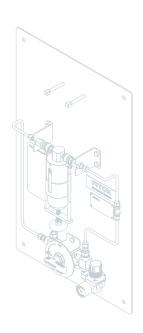
web: ngc-ps.com

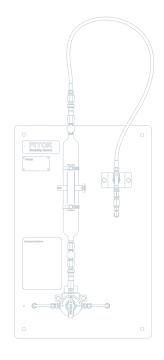
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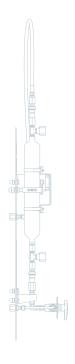
Sample Handling Systems

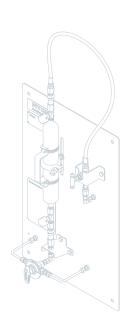














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EMAIL: ngcsales@ngc-ps.com **WEB**: ngc-ps.com



SR - Sample Handling Systems

SRB - Sample Recovery System for Bottle

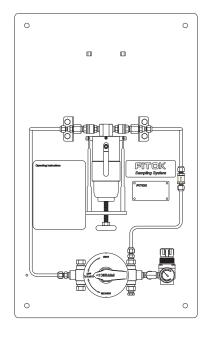
Features

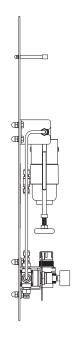
- Recover the sample from the sample bottle and purge the bottle
- Closed recovery without spillage
- © Easy operation with a single handle

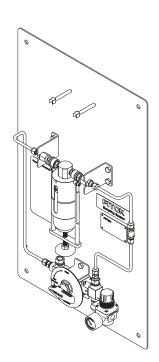
Basic Configuration

Wetted Material	316 SS	
Needle Assembly	Process/vent needle ID: 3.0 mm (0.12")	
Analysis Valve	BF Series three-way ball valves (gearbox linkage): PTFE seat and FKM O-ring Max. working pressure: 1500 psig @ 70°F (103 bar @ 20°C) Temperature range: 0°F to 450°F (-18°C to 232°C)	
Nitrogen Branch	Nitrogen regulator CV Series check valves Pressure gauge	PI
Connections	1/4" FNPT	Recovery

Note: Products of other specifications are available upon request.



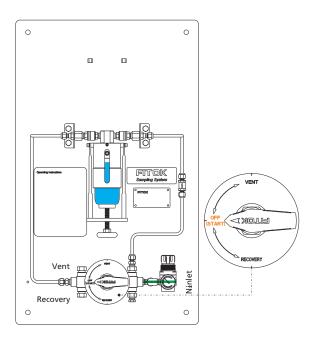






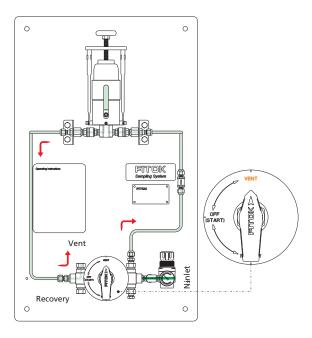
1 - Preparation

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. Turn the screw till the bottle is fixed in the sleeve.



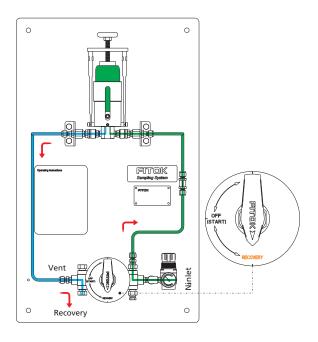
3 - Depressurization

Turn the handle to the "VENT" position to allow the bottle to depressurize.



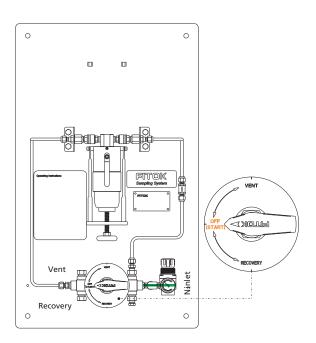
2 - Recovery

Turn the sleeve upside down and fix it by the retaining clips. Turn the handle to the "RECOVERY" position, allowing Nitrogen to drive liquids out of the bottle to the recovery connection. This position can be held for any required time.



4 - Off

Turn the handle to the "OFF" position and turn the sleeve back to the initial position. Unfix the screw and remove the bottle. The septum reseals automatically to complete sample recovery.





SRC - Sample Emptied System for Cylinder

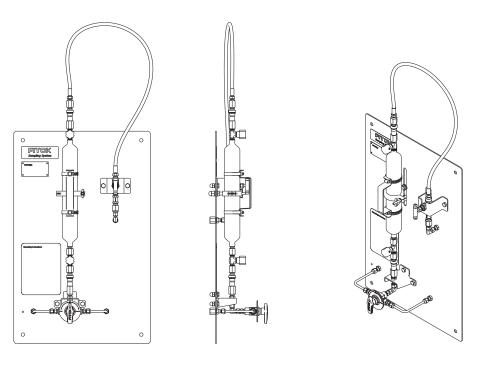
Features

- O Analyse the sample from the sample cylinder and empty the cylinder for application in the laboratory
- Closed emptying without spillage
- Depressurization of quick-connects

Basic Configuration

Wetted Material	316 SS
	500 ml cylinder
Cylinder Assembly	ND Series needle valves
	QC4 Series quick-connects
	BF Series three-way ball valves:
	PTFE seat and FKM O-ring
Analysis/Vent Valve	Max. working pressure: 1500 psig @ 70°F (103 bar @ 20°C)
	Temperature range: 0°F to 450°F (-18°C to 232°C)
	CV Series check valves
Other Accessories	NB Series needle valves
	PS Series metal hoses
Connections	Analyse/purge/vent: 1/4" FNPT
Connections	Cylinder: quick-connects

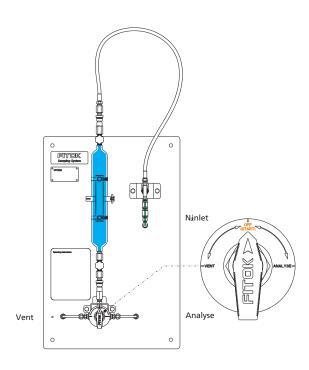
Note: Products of other specifications are available upon request.





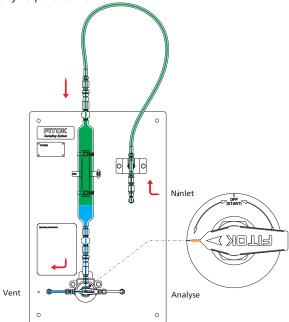
1 - Preparation

Install the sample cylinder. Connect the hose to the top quick-connect of the cylinder.



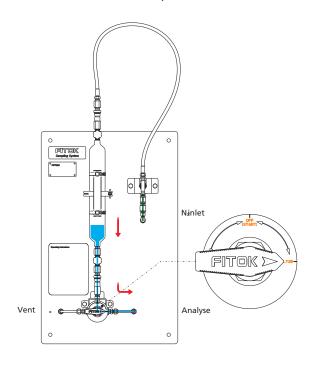
3 - Vent

Turn the handle to the "VENT" position. Open the needle valve on the Nitrogen branch, allowing Nitrogen to purge the cylinder to ensure that any residual fluid is removed from the cylinder. This position can be held for any required time.



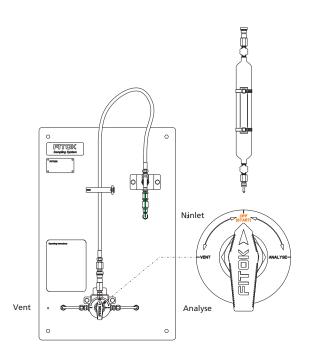
2 - Analyse

Open the needle valves of the cylinder. Turn the handle to the "ANALYSE" position, allowing the sample to flow into the analyser. When the required amount has been taken, turn the handle to the "OFF" position.



4 - Off

Turn the handle to the "OFF" position and close all the needle valves. Disconnect the hose, remove the cylinder and connect the hose to the bottom quick-connect.







Application Questionnaire for Selection of FITOK Sampling System

I . Customer Information		Customer Name	End User			
II . Pro	ject Information	Project Name	Site Location			
III. Ted	III. Technical Parameters					
No.	Section		Specification			
1		Sample/fluid name and composition				
2		Tag number				
3		Fluid phase state	Liquid	○ Gas	C Liquefied gas	
4		Design pressure	psig	O bar		
5	Process Data	Operating pressure*1	psig) bar		
6		Saturated vapor pressure*2	psig	Obar		
7		Design temp.	○ °C	○ °F		
8		Operating temp.*3	○ °C	○ °F		
9		Particles* ⁴	Size and Content	-	μm, %	
10		Wetted material	316SS (Std.) Alloy	400	oy C-276 Others	
11	Materials of Construction	O-ring material	○ FKM (Viton)(Std.) ○ F	FKM (Kalrez)	EPDM Others	
12		Valve seat material	○ PTFE (Std.) ○ PEEK ○ PCTFE ○ Others			
13		Inlet/outlet type and size	Inlet Outl	et		
14	Connection Type	Vent type and size	Vent			
15		Nitrogen port type and size	Nitrogen port	_		
16	Sample Container	Container type	○ Bottle ○ Cylinder			
17		Bottle volume	○ 50 ml ○ 60 ml ○ 500 ml ○ 1000 ml ○ 32 oz ○ Others			
18	Bottle	Needle assembly size: process needle ID (mm) x vent needle ID (mm)	1.4 x 1.4 (Std.) 2.0 3.0 x 1.4 3.0	0	0 x 2.0 0 x 1.4	
19	Bottle	Bottle material	Soda-lime glass (Std.)Polyethylene	Amber glass Polypropyler	_	
20		Septum material	_	d.) CEPDM (Natural rubbe	Silicone rubber FKM or Others	
Cap material Polypropylene PBT (Polybutylene terephthalate)					ephthalate)	
22	Cylinder	Cylinder volume	○ 75 ml ○ 150 m ○ 1000 ml ○ 2250	_	00 ml	
23	Cymraer	Cylinder material	316L (Std.) 304L Others	◯ Alloy 40	00 PTFE coated	





Application Questionnaire for Selection of FITOK Sampling System

				Standard	○Insulated		304SS (Std.) 316SS
24	Accessories	Enclosure type and material		OHeated by e	lectric \bigcirc Heated b	y steam	Others
25		Panel		Material		30455	Others
26		Pipe stand		Material	○ 304SS ○) CS20	Others
27		Cooler		Cooling inlet/o	utlet type and size	Inlet	Outlet
28		Steam tracing		Steam inlet/ou	tlet type and size	Inlet	Outlet
29		Others*5					
30	P&ID	Please provide comments or sk	etch if	applicable.			
31	Documentation	Material Certification EN10	204:20	04-3.1	Inspection & tes	ting report	t
32		Others, please specify:					
Remark	*2 Cylinder configuration sampling system is recommended when inlet pressure > 150psig (10.3bar). *2 Cylinder configuration sampling system is recommended when vapor pressure > 10psia (0.69bar). *3 Cooler is recommended when sample temperature > 140°F (60°C). *4 Filter is recommended when particle size >100 m. *5 If other accessories (such as: check valve, carbon canister, spring return handle and etc.) are needed, please specify. 6 Single choice Optional						



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FK-IC-C-04-EN-170207

BL – Bottle Configuration Sampling Systems for Liquids

A Series

BLA1 - On-off Type

Features

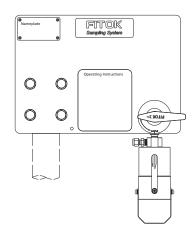
O Sampling from low pressure devices or process lines: 0-145 psig (0-10 bar)

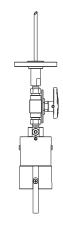
Basic Configuration

Wetted Material	316 SS	inlet
Sleeve Assembly	250 ml sleeve with bottle retaining clip	Sample in
Needle Assembly	Process/vent needle ID: 1.4 mm (0.06")	San
Sampling Valve	BF Series 2-way ball valves: PTFE seat and FKM O-ring Max. working pressure: 1500 psig @ 70°F (103 bar @ 20°C) Temperature range: 0°F to 450°F (-18°C to 232°C)	Vent
Connections	1/4" tube fitting	

Note: Products of other specifications are available upon request.

Typical Installation Mode

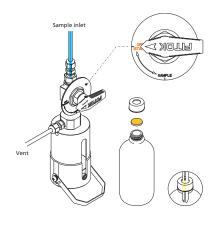




Operation

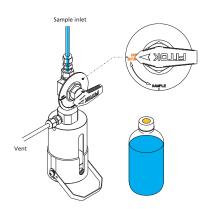
1 - Preparation

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. Swing down the bottle retaining clip.



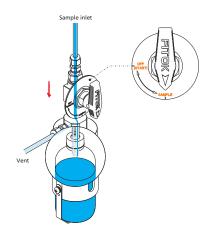
3 - Off

Remove the bottle retaining clip and take out the bottle from the sleeve. The septum reseals automatically to complete the sampling process.



2 - Sampling

Turn the handle to the "SAMPLE" position, allowing the sample to flow into the bottle. When the required amount has been taken, turn the handle to the "OFF" position to close the sampling system.





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BLA2 - System Purge Type

Features

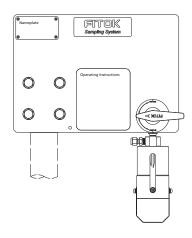
- O Sampling from low pressure devices or process lines: 0-145 psig (0-10 bar)
- System purge

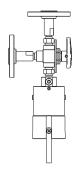
Basic Configuration

Wetted Material	316 SS	let
Sleeve Assembly	250 ml sleeve with bottle retaining clip	ple outlet
Needle Assembly	Process/vent needle ID: 1.4 mm (0.06")	Sample
Sampling Valve	BF Series 3-way ball valves: PTFE seat and FKM O-ring Max. working pressure: 1500 psig @ 70°F (103 bar @ 20°C) Temperature range: 0°F to 450°F (-18°C to 232°C)	Sample inlet
Connections	1/4" tube fitting	

Note: Products of other specifications are available upon request.

Typical Installation Mode

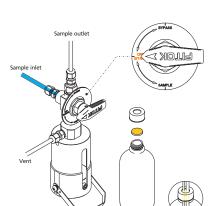




Operation

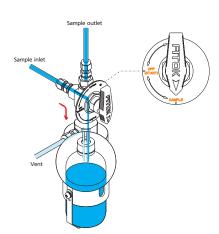
1 - Preparation

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. Swing down the bottle retaining clip.



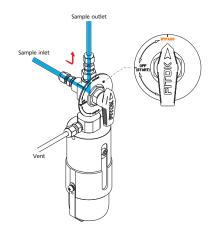
3 - Sampling

Turn the handle to the "SAMPLE" position, allowing the sample to flow into the bottle. When the required amount has been taken, turn the handle to the "OFF" position to close the sampling system.



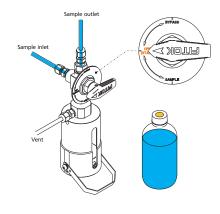
2 - System Purge

Turn the handle to the "BYPASS" position, allowing the sample to flow continuously through the system and purge system to ensure representative sampling.



4 - Off

Remove the bottle retaining clip and take out the bottle from the sleeve. The septum reseals automatically to complete the sampling process.





BLA3 - Back Purge Type

Features

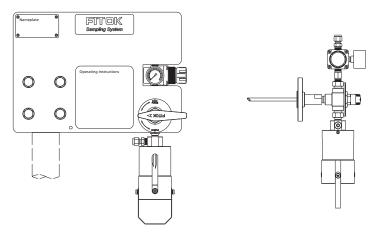
- O Sampling from low pressure devices or process lines: 0-145 psig (0-10 bar)
- Back purge

Basic Configuration

Wetted Material	316 SS	
Sleeve Assembly	250 ml sleeve with bottle retaining clip	N ₂ inlet
Needle Assembly	Process/vent needle ID: 1.4 mm (0.06")	
Sampling Valve	BF Series 3-way ball valves: PTFE seat and FKM O-ring Max. working pressure: 1500 psig @ 70°F (103 bar @ 20°C) Temperature range: 0°F to 450°F (-18°C to 232°C)	
Nitrogen Branch	Nitrogen regulator CV Series check valves Pressure gauge	Sample inte
Connections	1/4" tube fitting	

Note: Products of other specifications are available upon request.

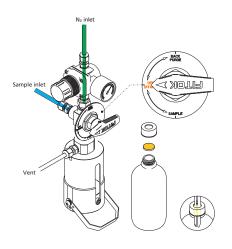
Typical Installation Mode



Operation

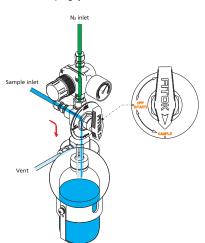
1 - Preparation

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. Swing down the bottle retaining clip.



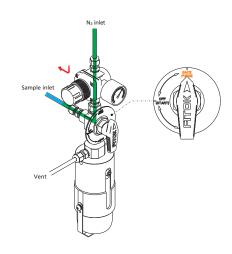
3 - Sampling

Turn the handle to the "SAMPLE" position, allowing the sample to flow into the bottle. When the required amount has been taken, turn the handle to the "OFF" position to close the sampling system.



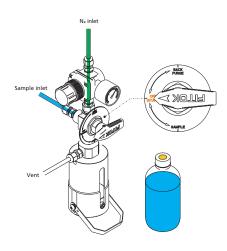
2 - Back Purge

Turn the handle to the "BACK PURGE" position, allowing Nitrogen to force the residual sample from the system into the process line to ensure representative sampling.



4 - Off

Remove the bottle retaining clip and take out the bottle from the sleeve. The septum reseals automatically to complete the sampling process.





BLA4 - Needle Purge Type

Features

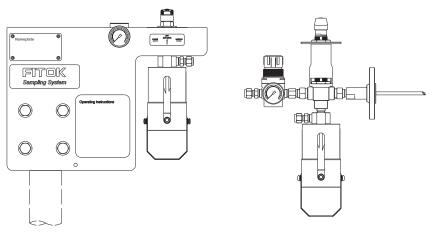
- O Sampling from low pressure devices or process lines: 0-145 psig (0-10 bar)
- Needle purge

Basic Configuration

Wetted Material	316 SS	
Sleeve Assembly	250 ml sleeve with bottle retaining clip	
Needle Assembly	Process/vent needle ID: 1.4 mm (0.06")	
Sampling Valve	BF Series 3-way ball valves: PTFE seat and FKM O-ring Max. working pressure: 1500 psig @ 70°F (103 bar @ 20°C) Temperature range: 0°F to 450°F (-18°C to 232°C)	N ₂ inlet
Nitrogen Branch	Nitrogen regulator CV Series check valves	_
	Pressure gauge	1
Connections	1/4" tube fitting	1

Note: Products of other specifications are available upon request.

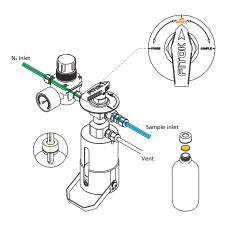
Typical Installation Mode



Operation

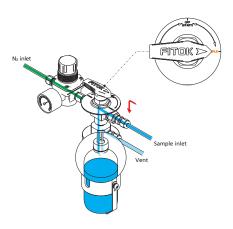
1 - Preparation

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. Swing down the bottle retaining clip.



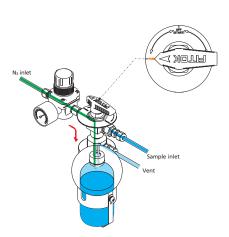
2 - Sampling

Turn the handle to the "SAMPLE" position, allowing the sample to flow into the bottle. When the required amount has been taken, turn the handle to the "OFF" position to close the sampling system.



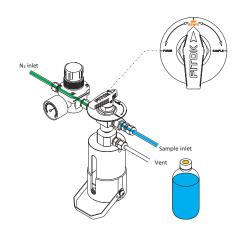
3 - Needle Purge

Turn the handle to the "PURGE" position, allowing Nitrogen to force the residual sample from the needle assembly into the bottle.



4 - Off

Turn the handle to the "OFF" position to close the sampling system. Remove the bottle retaining clip and take out the bottle from the sleeve. The septum reseals automatically to complete the sampling process.





BLA5 - Back and Needle Purge Type

Features

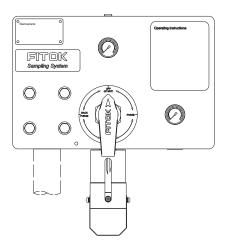
- O Sampling from low pressure devices or process lines: 0-145 psig (0-10 bar)
- O Back purge and needle purge

Basic Configuration

Wetted Material	316 SS	
Sleeve Assembly	250 ml sleeve with bottle retaining clip	T @
Needle Assembly	Process/vent needle ID: 1.4 mm (0.06")	
Sampling Valve	BO Series 4-way ball valves: PTFE seat Max. working pressure: 2500 psig @ 70°F (172 bar @ 20°C) Temperature range: 50°F to 140°F (10°C to 65°C)	Nz inlet Sample inlet
Nitrogen Branch	Nitrogen regulator CV Series check valves Pressure gauge	Vent
Connections	1/4" tube fitting	

Note: Products of other specifications are available upon request.

Typical Installation Mode

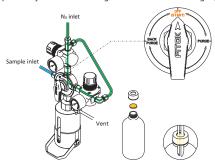




Operation

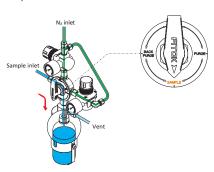
1 - Preparation

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. Swing down the bottle retaining clip.



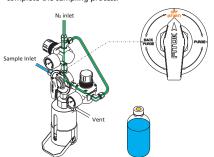
3 - Sampling

Turn the handle to the "SAMPLE" position, allowing the sample to flow into the bottle.



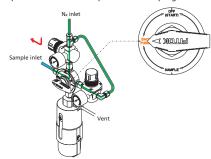
5 - Off

Turn the handle to the "OFF" position to close the sampling system. Remove the bottle retaining clip and take out the bottle from the sleeve. The septum reseals automatically to complete the sampling process.



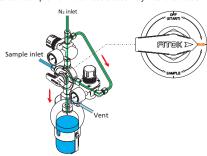
2 - Back Purge

Turn the handle to the "BACK PURGE" position, allowing Nitrogen to force the residual sample from the system into the process line to ensure representative sampling.



4 - Needle Purge

When the required amount has been taken, turn the handle to the "PURGE" position, allowing Nitrogen to force the residual sample from the needle assembly into the bottle.



BLA6 - System Purge and Continuous Needle Purge Type

Features

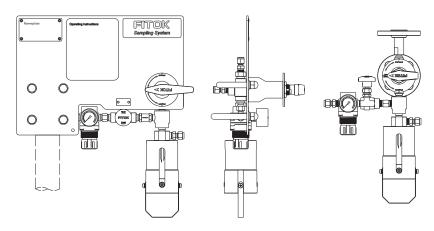
- O Sampling from low pressure devices or process lines: 0-145 psig (0-10 bar)
- System purge and continuous needle purge

Basic Configuration

Wetted Material	316 SS	
Sleeve Assembly	250 ml sleeve with bottle retaining clip	outlet
Needle Assembly	Process/vent needle ID: 1.4 mm (0.06")	Sample
Sampling Valve	BF Series 3-way ball valves: PTFE seat and FKM O-ring Max. working pressure: 1500 psig @ 70°F (103 bar @ 20°C) Temperature range: 0°F to 450°F (-18°C to 232°C)	N2 inlet
Nitrogen Branch	Nitrogen regulator CV Series check valves, NB Series needle valves Pressure gauge	Vent
Connections	1/4" tube fitting	

Note: Products of other specifications are available upon request.

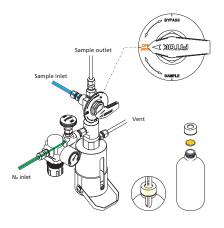
Typical Installation Mode



Operation

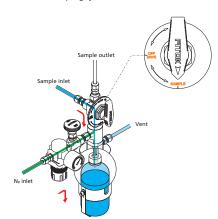
1 - Preparation

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. Swing down the bottle retaining clip.



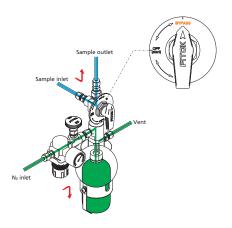
3 - Sampling

Turn the handle to the "SAMPLE" position, allowing the sample to flow into the bottle. When the required amount has been taken, turn the handle to the "OFF" position to close the sampling system.



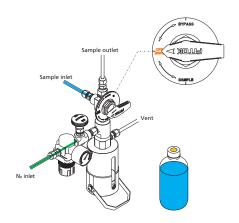
2 - Continuous Needle Purge and System Purge

Open the needle valve to purge the needle assembly and the bottle continuously with Nitrogen. Turn the handle to the "BYPASS" position, allowing the sample to flow continuously through the system and purge the system to ensure representative sampling.



4 - Off

Close the needle valve. Remove the bottle retaining clip and take out the bottle from the sleeve. The septum reseals automatically to complete the sampling process.





BLA7 - In-line and Needle Purge Type

Features

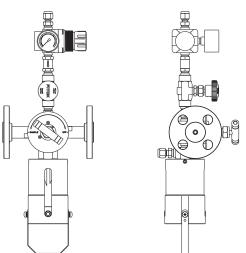
- O Sampling from low pressure devices or process lines: 0-145 psig (0-10 bar)
- In-line sampling valve to save sampling time
- Needle purge

Basic Configuration

Wetted Material	316 SS
Sleeve Assembly	250 ml sleeve with bottle retaining clip
Needle Assembly	Process/vent needle ID: 1.4 mm (0.06")
Sampling Valve	In-line valve: PTFE packing Max. working pressure: 3000 psig @ 70°F (206 bar @ 20°C) Temperature range: -4°F to 446°F (-20°C to 230°C)
Nitrogen Branch	Nitrogen regulator CV Series check valves, NB Series needle valves Pressure gauge
Connections	Process: 1/4" FNPT
	Purge/vent: 1/4" tube fitting

Note: Products of other specifications are available upon request.

Typical Installation Mode



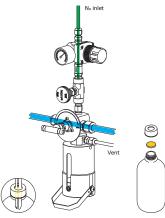
Operation

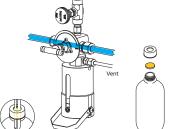
1 - Preparation

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. Swing down the bottle retaining clip.



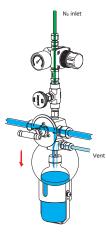
Turn the handle counterclockwise to open the sampling valve, allowing the sample to flow into the bottle. When the required amount has been taken, turn the handle clockwise to close the sampling valve.





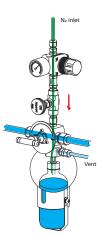
3 - Needle Purge

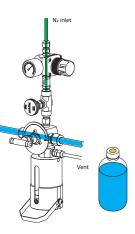
Open the valve on the Nitrogen branch, allowing Nitrogen to force the residual sample from the needle assembly and the valve into the bottle. Hold this position for a sufficient time.



4 - Off

Close the valve on the Nitrogen branch. Remove the bottle retaining clip and take out the bottle from the sleeve. The septum reseals automatically to complete the sampling process.







B Series

BLB1 - On-off Type with In-line Ball Valve

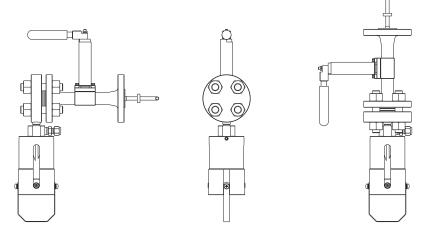
Features

- O Sampling from low pressure devices or process lines: 0-145 psig (0-10 bar)
- In-line sampling
- Fire safe and antistatic ball valve

Basic Configuration

Note: Products of other specifications are available upon request.

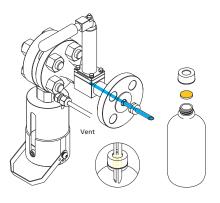
Typical Installation Mode



Operation

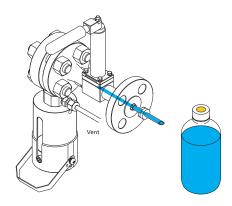
1 - Preparation

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. Swing down the bottle retaining clip.



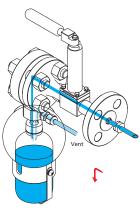
3 - Off

Remove the bottle retaining clip and take out the bottle from the sleeve. The septum reseals automatically to complete the sampling process.



2 - Sampling

Open the in-line ball valve, allowing the sample to flow into the bottle. When the required amount has been taken, release the handle to close the valve automatically.



BLB2 - On-off Type with In-line Needle Valve

Features

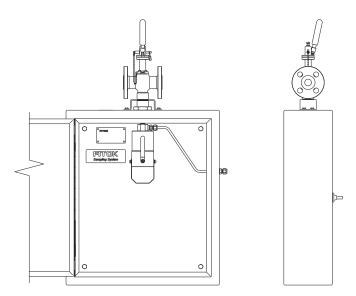
- O Sampling from low pressure devices or process lines: 0-145 psig (0-10 bar)
- In-line sampling

Basic Configuration

Wetted Material	316 SS
Sleeve Assembly	250 ml sleeve with bottle retaining clip
Needle Assembly	Process/vent needle ID: 1.4 mm (0.06")
Sampling Valve	In-line needle valve: PTFE packing and PCTFE seat Max. working pressure: 276 psig @ 70°F (19 bar @ 20°C) Temperature range: -18°F to 298°F (-28°C to 148°C)
Connections	Process: NPS 3/4, ANSI B16.5 Class 150 RF flange
	Vent: 1/4" tube fitting
Others	Spring return handle

Note: Products of other specifications are available upon request.

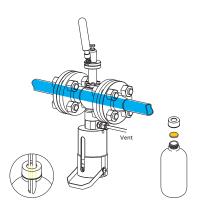
Typical Installation Mode



Operation

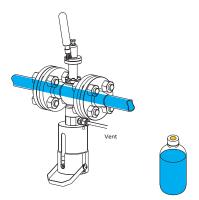
1 - Preparation

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. Swing down the bottle retaining clip.



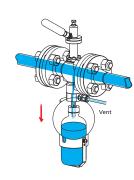
3 - Off

Remove the bottle retaining clip and take out the bottle from the sleeve. The septum reseals automatically to complete the sampling process.



2 - Sampling

Open the in-line needle valve, allowing the sample to flow into the bottle. When the required amount has been taken, release the handle to close the valve automatically.



BLB3 - In-line and Continuous Needle Purge Type

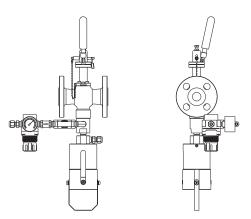
Features

- O Sampling from low pressure devices or process lines: 0-145 psig (0-10 bar)
- In-line sampling
- Sampling for viscous liquids
- O Needle purge

Basic Configuration

Note: Products of other specifications are available upon request.

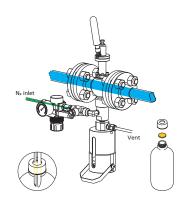
Typical Installation Mode



Operation

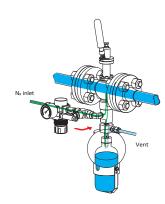
1 - Preparation

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. Swing down the bottle retaining clip.



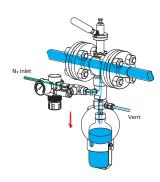
3 - Needle Purge

Open the valve on the Nitrogen branch, allowing Nitrogen to force the residual sample from the system into the bottle.



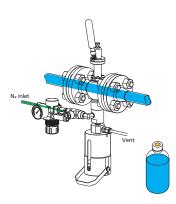
2 - Sampling

Open the in-line needle valve, allowing the sample to flow into the bottle. When the required amount has been taken, release the handle to close the valve automatically.



4 - Off

Close the valve on the Nitrogen branch. Remove the bottle retaining clip and take out the bottle from the sleeve. The septum reseals automatically to complete the sampling process.



C Series

BLC1 - Purge Type

Features

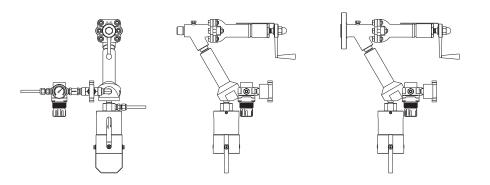
- O Sampling from vacuum, low or high pressure devices or process lines
- O Sampling with a piston valve to ensure zero dead volume
- Sampling for highly viscous liquids
- Needle purge

Basic Configuration

Wetted Material	316 SS	
Sleeve Assembly	250 ml sleeve with bottle retaining clip]
Needle Assembly	Process/vent needle ID: 1.4 mm (0.06")	
Sampling Valve	Piston valve: PTFE seat Max. working pressure: 1500 psig @ 70°F (103 bar @ 20°C) Temperature range: 0°F to 450°F (-18°C to 232°C)	No inlet
Nitrogen Branch	Nitrogen regulator CV Series check valves, NB Series needle valves Pressure gauge	Vent
Connections -	Process: 1/2" MNPT Vent/purge: 1/4" tube fitting	

Note: Products of other specifications are available upon request.

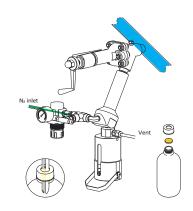
Typical Installation Mode



Operation

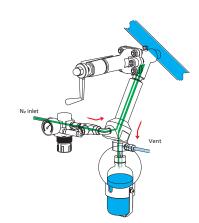
1 - Preparation

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. Swing down the bottle retaining clip.



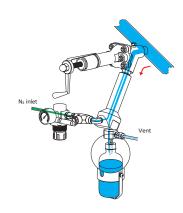
3 - Needle Purge

Open the valve on the Nitrogen branch, allowing Nitrogen to force the residual sample from the system into the bottle.



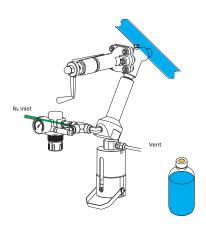
2 - Sampling

Open the piston valve, allowing the sample to flow into the bottle. When the required amount has been taken, close the piston valve.



4 - Off

Close the valve on the Nitrogen branch. Remove the bottle retaining clip and take out the bottle from the sleeve. The septum reseals automatically to complete the sampling process.



BLC2 - Fixed Volume and Purge Type

Features

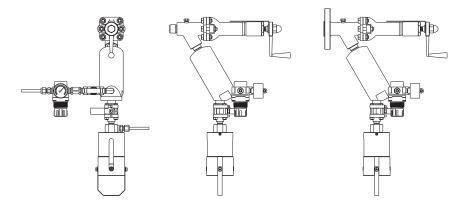
- O Sampling from vacuum, low or high pressure devices or process lines
- Fixed volume sampling
- O Sampling with a piston valve to ensure zero dead volume
- Sampling for highly viscous liquids
- O Needle purge

Basic Configuration

Wetted Material	316 SS	
Sleeve Assembly	250 ml sleeve with bottle retaining clip	
Needle Assembly	Process/vent needle ID: 1.4 mm (0.06")	
Sampling Valve	Piston valve: PTFE seat Max. working pressure: 1500 psig @ 70°F (103 bar @ 20°C) Temperature range: 0°F to 450°F (-18°C to 232°C)	
Nitrogen Branch	Nitrogen regulator CV Series check valves, NB Series needle valves Pressure gauge	Nz inlet Vent
Connections	Process: 1/2" MNPT	
	Vent/purge: 1/4" tube fitting	

Note: Products of other specifications are available upon request.

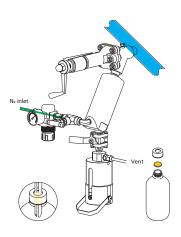
Typical Installation Mode



Operation

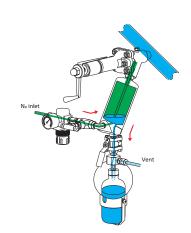
1 - Preparation

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. Swing down the bottle retaining clip.



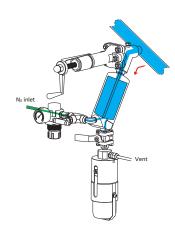
3 - Sampling

Open the valve on the Nitrogen branch and the valve above the needle assembly, allowing Nitrogen to force the sample from the sample chamber into the bottle and purge the system.



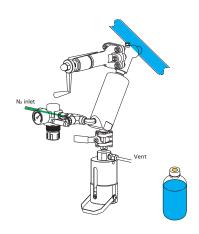
2 - Pre-sampling

Open the piston valve, allowing the sample to flow into the sample chamber. The amount of sample depends on the sample chamber volume and process pressure. Close the piston valve.



4 - Off

Close the valve on the Nitrogen branch and the valve above the needle assembly. Remove the bottle retaining clip and take out the bottle from the sleeve. The septum reseals automatically to complete the sampling process.





BLC3 - Fixed Volume Type with Heating/Cooling Jacket

Features

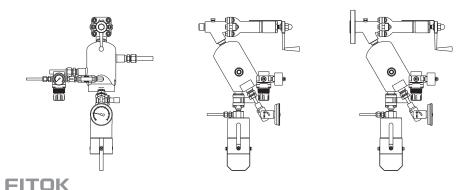
- O Sampling from vacuum, low or high pressure devices or process lines
- Fixed volume sampling
- O Sampling with a piston valve to ensure zero dead volume
- Sampling for highly viscous liquids
- O Heating/cooling jacket to ensure sampling within a certain range of temperature
- Needle purge

Basic Configuration

Wetted Material	316 SS	
Sleeve Assembly	250 ml sleeve with bottle retaining clip	
Needle Assembly	Process/vent needle ID: 1.4 mm (0.06")	
Sampling Valve	Piston valve: PTFE seat Max. working pressure: 1500 psig @ 70°F (103 bar @ 20°C) Temperature range: 0°F to 450°F (-18°C to 232°C)	Heating
Nitrogen Branch	Nitrogen regulator CV Series check valves, NB Series needle valves Pressure gauge	Heating/cooling) (Nz inlet)
Connections	Process: 1/2" MNPT Vent/purge: 1/4" tube fitting	Vent
	Heating/cooling: 3/8" FNPT	
Others	Heating/cooling jacket, sample chamber (200 ml), thermometer, BH Series ball valves	

Note: Products of other specifications are available upon request.

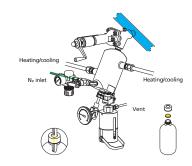
Typical Installation Mode



Operation

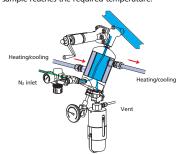
1 - Preparation

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. Swing down the bottle retaining clip.



3 - Heating/cooling

Allow the heating/cooling fluid to flow through the heating/cooling jacket. Hold for a sufficient time until the sample reaches the required temperature.



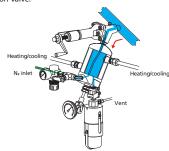
5 - Off

Close the valve on the Nitrogen branch and the valve above the needle assembly. Remove the bottle retaining clip and take out the bottle from the sleeve. The septum reseals automatically to complete the sampling process.



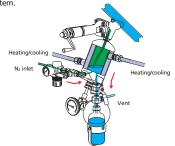
2 - Pre-sampling

Open the piston valve, allowing the sample to flow into the sample chamber. The amount of sample depends on the sample chamber volume and process pressure. Close the piston valve.



4 - Sampling

Open the valve on the Nitrogen branch and the valve above the needle assembly, allowing Nitrogen to force the sample from the sample chamber into the bottle and purge the system.



BLC4 - Solvent Purge Type

Features

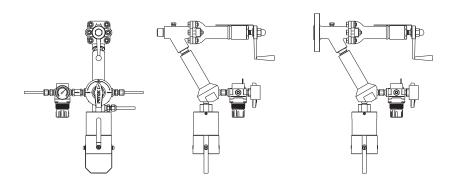
- O Sampling from vacuum, low or high pressure devices or process lines
- O Sampling with a piston valve to ensure zero dead volume
- Sampling for highly viscous liquids
- Needle purge and solvent purge

Basic Configuration

Wetted Material	316 SS	
Sleeve Assembly	250 ml sleeve with bottle retaining clip	N2 inlet
Needle Assembly	Process/vent needle ID: 1.4 mm (0.06")	
Sampling Valve	Piston valve: PTFE seat Max. working pressure: 1500 psig @ 70°F (103 bar @ 20°C) Temperature range: 0°F to 450°F (-18°C to 232°C)	
	Nitrogen regulator	
Purge Branch	CV Series check valves, BF Series 3-way ball valves	Vent
	Pressure gauge	Solvent Injec
Connections	Process: 1/2" MNPT	
Connections	Vent/purge/solvent: 1/4" tube fitting	

Note: Products of other specifications are available upon request.

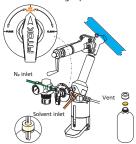
Typical Installation Mode



Operation

1 - Preparation

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. Swing down the bottle retaining clip.



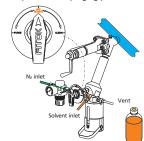
4 - Off

Turn the handle to the "OFF" position. Remove the bottle retaining clip and take out the bottle from the sleeve. The septum reseals automatically.



7 - Off

Turn the handle to the "OFF" position. Remove the bottle retaining clip and take out the bottle from the sleeve. The septum reseals automatically to complete solvent purging process.



2 - Sampling

Open the piston valve, allowing the sample to flow into the bottle. When the required amount has been taken, close the piston valve.



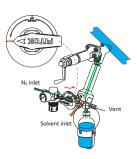
5 - Solvent Purge

Replace the bottle with a new one. Turn the handle to the "CLEAN" position, allowing the solvent to flow through the system into the bottle.



3 - Nitrogen Purge

Turn the handle to the "PURGE" position, allowing Nitrogen to force the residual sample from the system into the bottle.



6 - Nitrogen Purge

Turn the handle to the "PURGE" position, allowing Nitrogen to force the residual solvent from the system into the sample bottle.



D Series

BLD1 - Threaded Connection Type

Features

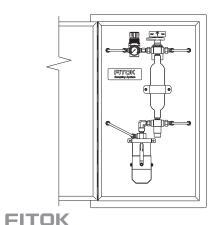
- Sampling from medium or high pressure devices or process lines
- Fixed volume sampling
- System purge and needle purge
- Easy operation with a single handle by linkage valve

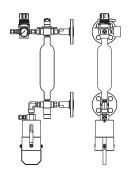
Basic Configuration

Wetted Material	316 SS	
Sleeve Assembly	250 ml sleeve with bottle retaining clip	
Needle Assembly	Process/vent needle ID: 1.4 mm (0.06")	N ₂ inlet
Sampling Valve	BF Series 3-way ball valves (rod linkage): PTFE seat and FKM O-ring Max. working pressure: 1500 psig @ 70°F (103 bar @ 20°C) Temperature range: 0°F to 450°F (-18°C to 232°C)	
Nitrogen Branch	Nitrogen regulator CV Series check valves	Vent Sample inlet
	Pressure gauge	
Connections	1/4" FNPT	
Others	Sample chamber (200 ml)	

Note: Products of other specifications are available upon request.

Typical Installation Mode

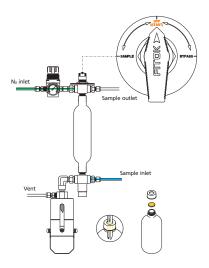




Operation

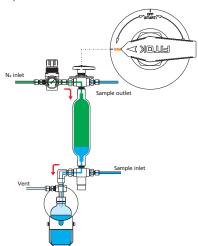
1 - Preparation

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. Swing down the bottle retaining clip.



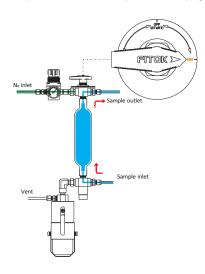
3 - Sampling

Turn the handle to the "SAMPLE" position, allowing Nitrogen to force the sample from the sample chamber into the bottle and purge the sample chamber and needle assembly. The amount of sample depends on the sample chamber volume.



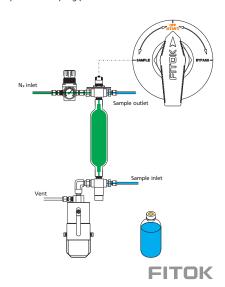
2 - System Purge

Turn the handle to the "BYPASS" position, allowing the sample to flow continuously through the sample chamber. Hold for a period of time to ensure representative sampling.



4 - Off

Turn the handle to the "OFF" position to close the sampling system. Remove the bottle retaining clip and take out the bottle from the sleeve. The septum reseals automatically to complete the sampling process.



BLD2 - Continuous Needle Purge Type

Features

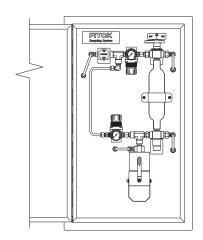
- Sampling from medium or high pressure devices or process lines
- Fixed volume sampling
- O Continuous needle purge and system purge
- Easy operation with a single handle by linkage valve

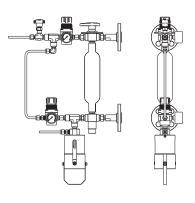
Basic Configuration

Wetted Material	316 SS	
Sleeve Assembly	250 ml sleeve with bottle retaining clip	T
Needle Assembly	Process/vent needle ID: 1.4 mm (0.06")	N ₂ inlet
Sampling Valve	BF Series 3-way ball valves (rod linkage): PTFE seat and FKM O-ring Max. working pressure: 1500 psig @ 70°F (103 bar @ 20°C) Temperature range: 0°F to 450°F (-18°C to 232°C)	© 7
Nitrogen Branch	Nitrogen regulator CV Series check valves, NB series needle valves Pressure gauge	Vent Sample in
Connections	1/4" tube fitting	
Others	Sample chamber (200 ml)	

Note: Products of other specifications are available upon request.

Typical Installation Mode

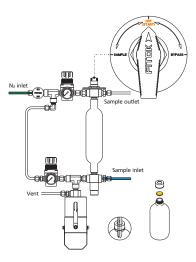




Operation

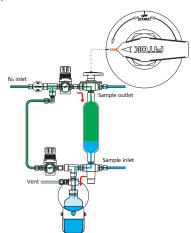
1 - Preparation

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. Swing down the bottle retaining clip.



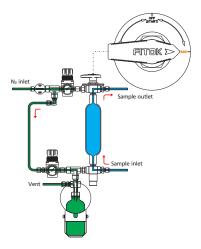
3 - Sampling

Turn the handle to the "SAMPLE" position, allowing Nitrogen to force the sample from the sample chamber into the bottle and purge the sample chamber and needle assembly. The amount of sample depends on the sample chamber volume.



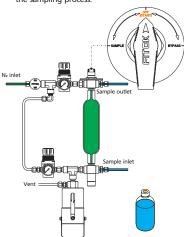
2 - Needle Purge and System Purge

Open the needle valve, allowing Nitrogen to purge the needle assembly and bottle continuously. Turn the handle to the "BYPASS" position to allow a continuous flow of sample through the sample chamber. Hold for a period of time to ensure representative sampling.



4 - Off

Close the needle valve. Turn the handle to the "OFF" position to close the sampling system. Remove the bottle retaining clip and take out the bottle from the sleeve. The septum reseals automatically to complete the sampling process.





BLD3 - Heating/Cooling Type

Features

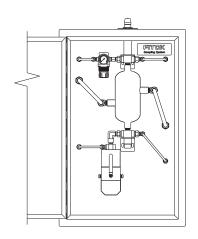
- Sampling from medium or high pressure devices or process lines
- Fixed volume sampling
- O System purge and needle purge
- O Heating/cooling jacket to ensure sampling within a certain range of temperature
- Easy operation with a single handle by linkage valve

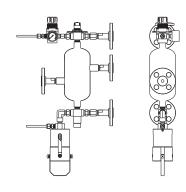
Basic Configuration

Wetted Material	316 SS	
Sleeve Assembly	250 ml sleeve with bottle retaining clip	
Needle Assembly	Process/vent needle ID: 1.4 mm (0.06")	- -
Sampling Valve	BF Series 3-way ball valves (rod linkage): PTEE seat and FKM O-ring Max. working pressure: 1500 psig @ 70°F (103 bar @ 20°C) Temperature range: 0°F to 450°F (-18°C to 232°C)	Sample outlet Heating/cooling
Nitrogen Branch	Nitrogen regulator CV Series check valves Pressure gauge	Heating/cooling Sample inlet
Connections	Process/vent/purge: 1/4" tube fitting Heating/cooling: 3/8" FNPT	
Others	Heating/cooling jacket, sample chamber (200 ml)	

Note: Products of other specifications are available upon request.

Typical Installation Mode

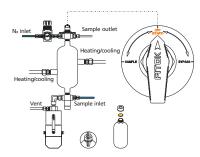




Operation

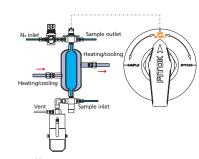
1 - Preparation

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. Swing down the bottle retaining clip.



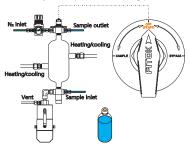
3 - Heating/cooling

Turn the handle to the "OFF" position, allowing the heating/cooling fluid to flow through the heating/cooling jacket. Hold for a sufficient time until the sample reaches the required temperature.



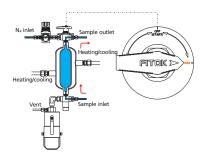
5 - Off

Turn the handle to the "OFF" position to close the sampling system. Remove the bottle retaining clip and take out the sample bottle from the sleeve. The septum reseals automatically to complete the sampling process.



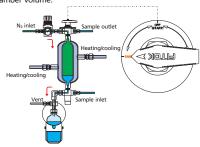
2 - System Purge

Turn the handle to the "BYPASS" position, allowing the sample to flow continuously through the sample chamber. Hold for a period of time to ensure representative sampling.



4 - Sampling

Turn the handle to the "SAMPLE" position, allowing Nitrogen to force the sample from the sample chamber into the bottle and purge the sample chamber and needle assembly. The amount of sample depends on the sample chamber volume.



BLD4 - Sampling by Gravity Type

Features

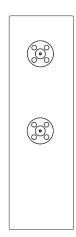
- O Sampling from medium or high pressure devices or process lines
- Fixed volume sampling
- System purge
- O Sampling by gravity without Nitrogen purge
- © Easy operation with a single handle by linkage valve

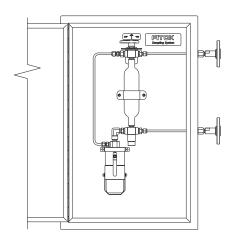
Basic Configuration

Wetted Material	316 SS	_ 1
Sleeve Assembly	250 ml sleeve with bottle retaining clip	Sample outlet
Needle Assembly	Process/vent needle ID: 1.4 mm (0.06")	
Sampling Valve	BF Series 3-way ball valves (rod linkage): PTFE seat and FKM O-ring Max. working pressure: 1500 psig @ 70°F (103 bar @ 20°C) Temperature range: 0°F to 450°F (-18°C to 232°C)	Sample inlet
Connections	1/4" tube fitting	
Others	Sample chamber (200 ml)	

Note: Products of other specifications are available upon request.

Typical Installation Mode

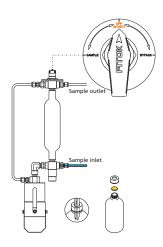




Operation

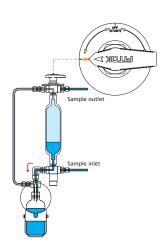
1 - Preparation

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. Swing down the bottle retaining clip.



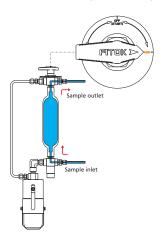
3 - Sampling

Turn the handle to the "SAMPLE" position, allowing the sample to flow into the bottle by gravity. Hold this position for a sufficient time. The amount of sample depends on the sample chamber volume.



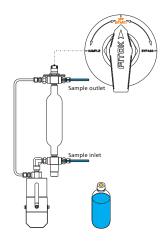
2 - System Purge

Turn the handle to the "BYPASS" position, allowing the sample to flow continuously through the sample chamber. Hold for a period of time to ensure representative sampling.



4 - Off

Turn the handle to the "OFF" position to close the sampling system. Remove the bottle retaining clip and take out the bottle from the sleeve. The septum reseals automatically to complete the sampling process.





BLD5- Sampling by Gravity Type with Heating/Cooling Jacket

Features

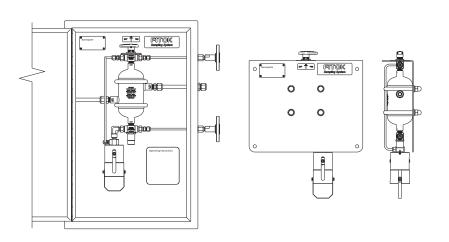
- O Sampling from medium or high pressure devices or process lines
- Fixed volume sampling
- System purge
- Sampling by gravity without Nitrogen purge
- O Heating/cooling jacket to ensure sampling within a certain range of temperature
- Easy operation with a single handle by linkage valve

Basic Configuration

Wetted Material	316 SS	
Sleeve Assembly	250 ml sleeve with bottle retaining clip	1
Needle Assembly	Process/vent needle ID: 1.4 mm (0.06")	Sample outlet
Sampling Valve	BF Series 3-way ball valves (rod linkage): PTFE seat and FKM O-ring Max. working pressure: 1500 psig @ 70°F (103 bar @ 20°C) Temperature range: 0°F to 450°F (-18°C to 232°C)	Heating/cooling Heating/cooling Sample inlet
Connections	Process: 1/4" tube fitting	
Connections	Heating/cooling: 3/8" FNPT]
Others	Heating/cooling jacket, sample chamber (200 ml)	

Note: Products of other specifications are available upon request.

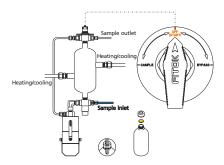
Typical Installation Mode



Operation

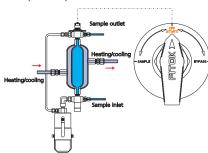
1 - Preparation

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. Swing down the bottle retaining clip.



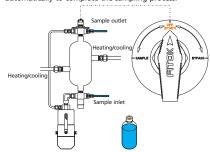
3 - Heating/cooling

Turn the handle to the "OFF" position, allowing the heating/cooling fluid to flow through the heating/cooling jacket. Hold for a sufficient time until the sample reaches the required temperature.



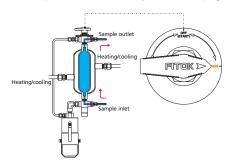
5 - Off

Turn the handle to the "OFF" position to close the sampling system. Remove the bottle retaining clip and take out the bottle from the sleeve. The septum reseals automatically to complete the sampling process.



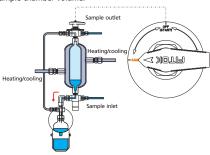
2 - System Purge

Turn the handle to the "BYPASS" position, allowing the sample to flow continuously through the sample chamber. Hold for a period of time to ensure representative sampling.



4 - Sampling

Turn the handle to the "SAMPLE" position, allowing the sample to flow into the bottle by gravity. Hold this position for a sufficient time. The amount of sample depends on the sample chamber volume.



E Series

BLE1 - Back Purge Type with Vacuum Connection

Features

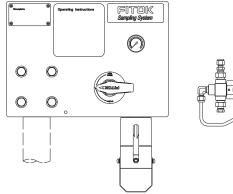
- O Sampling from process lines at atmospheric pressure or vacuum condition
- Back purge
- O Easy operation with a single handle by linkage valve

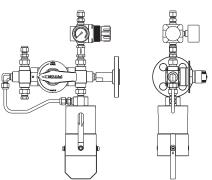
Basic Configuration

Wetted Material	316 SS	inler
Sleeve Assembly	250 ml sleeve with bottle retaining clip	\[\frac{\z}{\z} \]
Needle Assembly	Process/vent needle ID: 1.4 mm (0.06")	
Sampling Valve	BF Series 3-way ball valves (gearbox linkage): PTFE seat and FKM O-ring Max. working pressure: 1500 psig @ 70°F (103 bar @ 20°C) Temperature range: 0°F to 450°F (-18°C to 232°C)	(a) Astronomy
	Nitrogen regulator	Sample inlet
Nitrogen Branch	CV Series check valves	
	Pressure gauge	
Connections	1/4" tube fitting	

Note: Products of other specifications are available upon request.

Typical Installation Mode

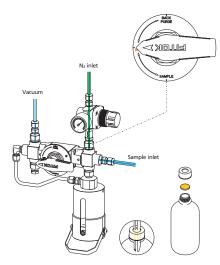




Operation

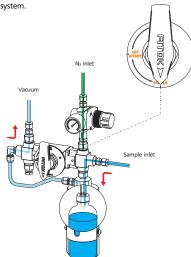
1 - Preparation

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. Swing down the bottle retaining clip.



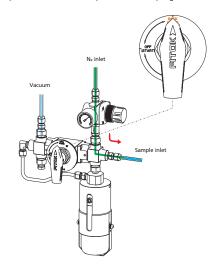
3 - Sampling

Turn the handle to the "SAMPLE" position, connecting the bottle with the vacuum connection to create a vacuum in the sample bottle. The sample flows into the bottle. When the required amount has been taken, turn the handle to the "OFF" position to close the sampling system.



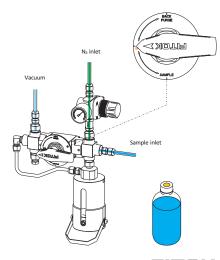
2 - Back Purge

Turn the handle to the "BACK PURGE" position, allowing Nitrogen to force the residual sample from the system into the process line to ensure representative sampling.



4 - Off

Remove the bottle retaining clip and take out the bottle from the sleeve. The septum reseals automatically to complete the sampling process.





FITOK

BLE2 - Back and Needle Purge Type with Vacuum Connection

Features

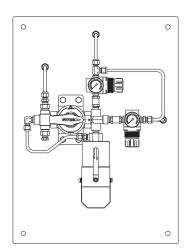
- O Sampling from process lines at atmospheric pressure or vacuum condition
- Back purge and needle purge
- © Easy operation with a single handle by linkage valve

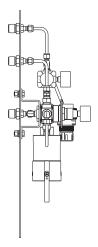
Basic Configuration

Wetted Material	316 SS	inlet
Sleeve Assembly	250 ml sleeve with bottle retaining clip	N N N N N N N N N N
Needle Assembly	Process/vent needle ID: 1.4 mm (0.06")	
Sampling Valve	BF Series 3-way ball valves and BO Series 4-way ball valves (gearbox linkage): PTFE seat Max. working pressure: 1500 psig @ 70°F (103 bar @ 20°C) Temperature range: 0°F to 300°F (-18°C to 148°C)	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c
Nitrogen Branch	Nitrogen regulator CV Series check valves Pressure gauge	Sample inlet
Connections	1/4" tube fitting	

Note: Products of other specifications are available upon request.

Typical Installation Mode

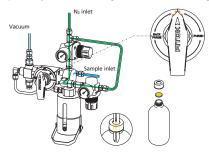




Operation

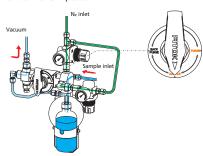
1 - Preparation

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. Swing down the bottle retaining clip.



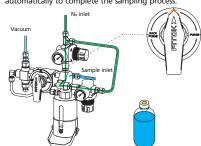
3 - Sampling

Turn the handle to the "SAMPLE" position, connecting the bottle with the vacuum connection to create a vacuum in the sample bottle. The sample flows into the bottle. When the required amount has been taken, turn the handle to the "PURGE" position.



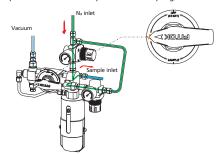
5 - Off

Turn the handle to the "OFF" position to close the sampling system. Remove the bottle retaining clip and take out the bottle from the sleeve. The septum reseals automatically to complete the sampling process.



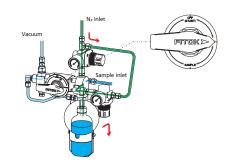
2 - Back Purge

Turn the handle to the "BACK PURGE" position, allowing Nitrogen to force the residual sample from the system into the process line to ensure representative sampling.



4 - Needle Purge

Allow Nitrogen to force the residual sample from the needle assembly into the bottle. Hold this position for a sufficient time.



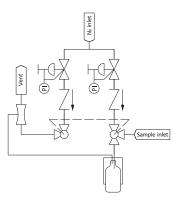
BLE3 - Back Purge Type with Venturi Unit

Features

- O Sampling from process lines at atmospheric pressure or vacuum condition
- Back purge
- Easy operation with a single handle by linkage valve

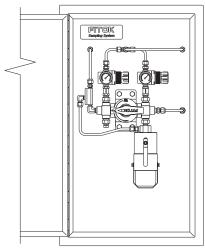
Basic Configuration

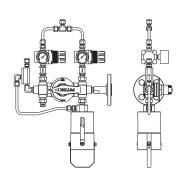
Wetted Material	316 SS
Sleeve Assembly	250 ml sleeve with bottle retaining clip
Needle Assembly	Process/vent needle ID: 1.4 mm (0.06")
Sampling Valve	BF Series 3-way ball valves (gearbox linkage): PTFE seat and FKM O-ring Max. working pressure: 1500 psig @ 70°F (103 bar @ 20°C) Temperature range: 0°F to 450°F (-18°C to 232°C)
Nitrogen Branch	Nitrogen regulator CV Series check valves Pressure gauge
Venturi Unit	Creating a vacuum in the sample bottle; sampling at atmospheric pressure or vacuum condition
Connections	1/4" tube fitting



Note: Products of other specifications are available upon request.

Typical Installation Mode

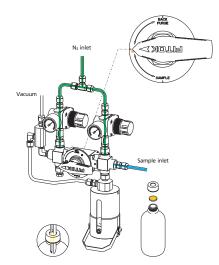




Operation

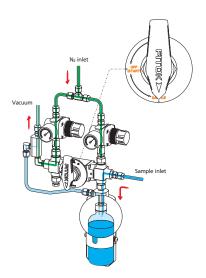
1 - Preparation

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. Swing down the bottle retaining clip.



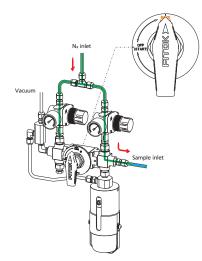
3 - Sampling

Turn the handle to the "SAMPLE" position, allowing the sample to flow into the bottle vacuumized by the venturi unit. When the required amount has been taken, turn the handle to the "OFF" position.



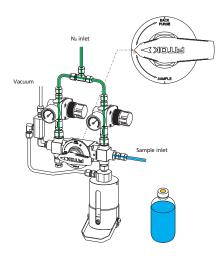
2 - Back Purge

Turn the handle to the "BACK PURGE" position, allowing Nitrogen to force the residual sample from the system into the process line to ensure representative sampling.



4 - Off

Remove the bottle retaining clip and take out the bottle from the sleeve. The septum reseals automatically to complete the sampling process.





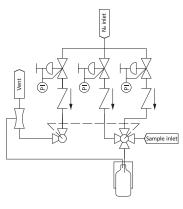
BLE4 - Back and Needle Purge Type with Venturi Unit

Features

- O Sampling from process lines at atmospheric pressure or vacuum condition
- Back purge and needle purge
- © Easy operation with a single handle by linkage valve

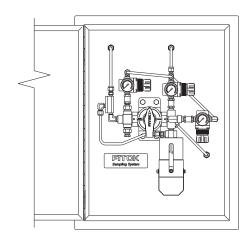
Basic Configuration

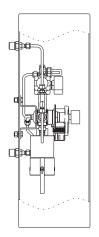
Wetted Material	316 SS
Sleeve Assembly	250 ml sleeve with bottle retaining clip
Needle Assembly	Process/vent needle ID: 1.4 mm (0.06")
Sampling Valve	BF Series 3-way ball valves and BO Series 4-way ball valves (gearbox linkage): PTFE seat Max. working pressure: 1500 psig @ 70°F (103 bar @ 20°C) Temperature range: 0°F to 300°F (-18°C to 148°C)
Nitrogen Branch	Nitrogen regulator CV Series check valves Pressure gauge
Venturi Unit	Creating a vacuum in the sample bottle, sampling at atmospheric pressure or vacuum condition
Connections	1/4" tube fitting



Note: Products of other specifications are available upon request.

Typical Installation Mode

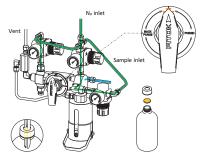




Operation

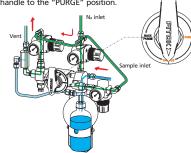
1 - Preparation

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. Swing down the bottle retaining clip.



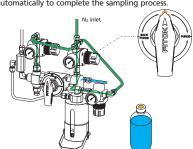
3 - Sampling

Turn the handle to the "SAMPLE" position, allowing the sample to flow into the bottle vacuumized by the venturi unit. When the required amount has been taken, turn the handle to the "PURGE" position.



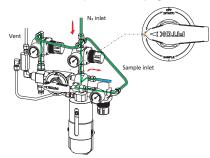
5 - Off

Turn the handle to the "OFF" position to close the sampling system. Remove the bottle retaining clip and take out the bottle from the sleeve. The septum reseals automatically to complete the sampling process.



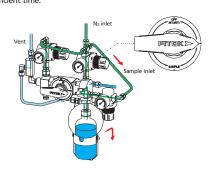
2 - Back Purge

Turn the handle to the "BACK PURGE" position, allowing Nitrogen to force the residual sample from the system into the process line to ensure representative sampling.



4 - Needle Purge

Allow Nitrogen to force the residual sample from the needle assembly into the bottle. Hold this position for a sufficient time.



BLE5 - Overflow Type with Vacuum Connection

Features

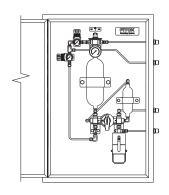
- Sampling from process lines at atmospheric pressure or vacuum condition
- Fixed volume sampling
- Overflow sampling and back purge
- © Easy operation with a single handle by linkage valve

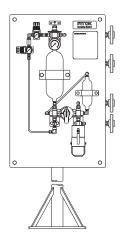
Basic Configuration

Wetted Material	316 SS		
Sleeve Assembly	250 ml sleeve with bottle retaining clip		
Needle Assembly	Process/vent needle ID: 1.4 mm (0.06")		
Sampling Valve	BF Series 3-way ball valves (gearbox linkage): PTFE seat and FKM O-ring Max. working pressure: 1500 psig @ 70°F (103 bar @ 20°C) Temperature range: 0°F to 450°F (-18°C to 232°C)	N ₂ inlet	
	Nitrogen regulator		43
Nitrogen Branch	CV Series check valves]	
-	Pressure gauge	1 –	
Connections	1/4" tube fitting		
Others	Overflow cylinder, sample chamber (200 ml), ball valve		

Note: Products of other specifications are available upon request.

Typical Installation Mode

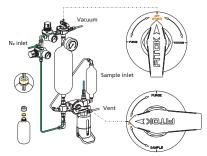




Operation

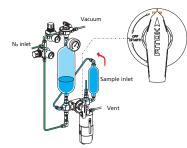
1 - Preparation

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. Swing down the bottle retaining clip.



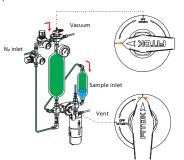
3 - System Purge

Turn the main handle to the "PURGE" position, allowing the sample to flow from the process line into the vacuumized overflow cylinder through the sample chamber to ensure representative sampling.



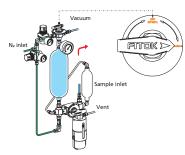
5 - Back Purge

Turn the main handle and the handle on the top of the overflow cylinder to the "PURGE" position, allowing Nitrogen to force the residual sample from the system into the process line.



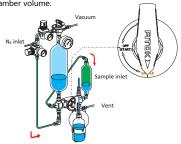
2 - Vacuum

Turn the handle on the top of the overflow cylinder to the "VACUUM" position to vacuumize the overflow cylinder. Turn the handle to the "OFF" position.



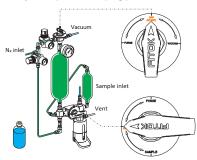
4 - Sampling

Turn the main handle to the "SAMPLE" position, allowing Nitrogen to force the sample from the sample chamber into the bottle and purge the sample chamber and needle assembly. The amount of sample depends on the sample chamber volume.



6 - OFF

Turn the two handles to the "OFF" position to close the sampling system. Remove the bottle retaining clip and take out the bottle from the sleeve. The septum reseals automatically to complete the sampling process.





BLE6 - Fixed Volume Type

Features

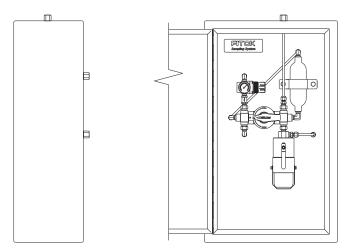
- Sampling from medium or high pressure devices or process lines
- Fixed volume sampling
- System purge and needle purge
- © Easy operation with a single handle by linkage valve

Basic Configuration

Wetted Material	316 SS	[E	
Sleeve Assembly	250 ml sleeve with bottle retaining clip	N ₂ inlet	
Needle Assembly	Process/vent needle ID: 1.4 mm (0.06")		
Sampling Valve	BF Series 3-way ball valves (gearbox linkage): PTFE seat and FKM O-ring Max. working pressure: 1500 psig @ 70°F (103 bar @ 20°C) Temperature range: 0°F to 450°F (-18°C to 232°C)		Sample inlet
	Nitrogen regulator		8-1
Nitrogen Branch	CV Series check valves		Vent
	Pressure gauge	e outlet	
Connections	1/4" tube fitting	Sample	
Others	Sample chamber (200 ml)		

Note: Products of other specifications are available upon request.

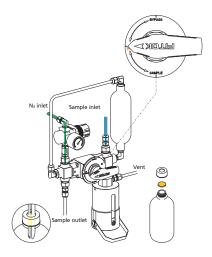
Typical Installation Mode



Operation

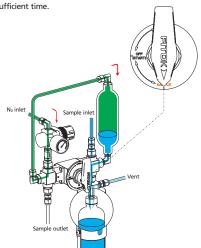
1 - Preparation

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. Swing down the bottle retaining clip.



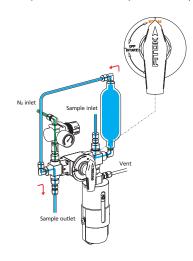
3 - Sampling

Turn the handle to the "SAMPLE" position, allowing Nitrogen to force the sample from the sample chamber into the bottle and purge the sample chamber and needle assembly. This position can be held for a sufficient time.



2 - System Purge

Turn the handle to the "BYPASS" position, allowing the sample to flow continuously through the sample chamber. Hold for a period of time to ensure representative sampling.



4 - Off

Turn the handle to the "OFF" position to close the sampling system. Remove the bottle retaining clip and take out the bottle from the sleeve. The septum reseals automatically to complete the sampling process.

