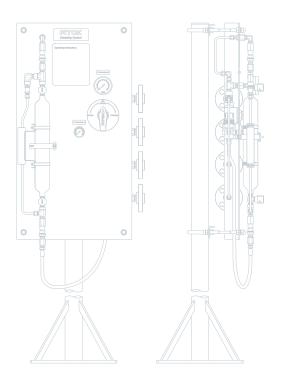
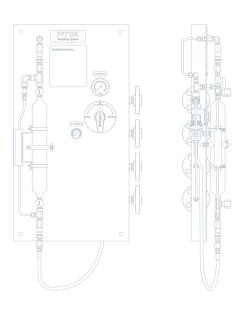
Cylinder Configuration Sampling Systems for Gases







CGG2 - Bypass and System Purge Type

Features

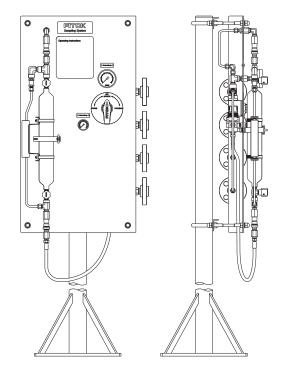
- O Sampling from devices or process lines
- System purge
- © Easy operation with a single handle

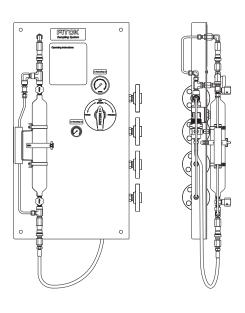
Basic Configuration

Wetted Material	316 SS	
	500 ml cylinder	
Culinday Assambly	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 inlet Sample outlet
Nitrogen Branch	Nitrogen regulator CV Series check valves	
	Pressure gauge	
Other Accessories	PS Series metal hoses	Sommer
Other Accessories	Pressure gauge	
Connections	NPS 1/2 flange	

Note: Products of other specifications are available upon request.

Typical Installation Mode



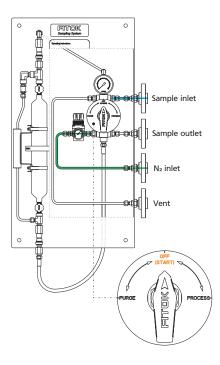




Operation

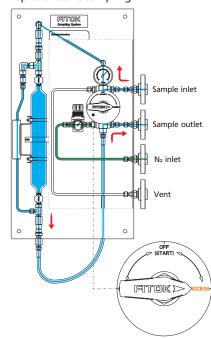
1 - Preparation

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.



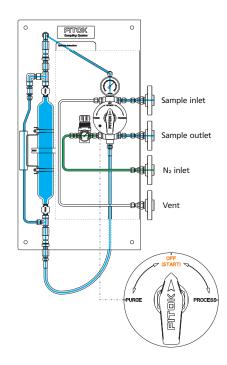
2 - Sampling

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.



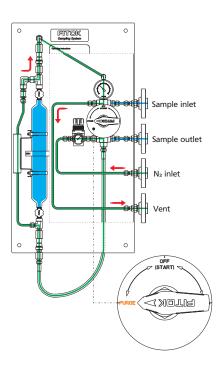
3 - Off

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



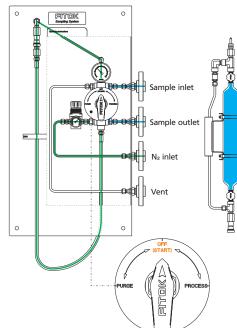
4 - Purge

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.







Application Questionnaire for Selection of FITOK Sampling System

I . Customer Information		Customer Name	End User					
II . Project 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 ○ Liquefied gas					
4		Design pressure	o psig o bar					
5	Process Data	Operating pressure*1	o psig bar					
6		Saturated vapor pressure*2	opsig bar					
7		Design temp.	○ °C					
8		Operating temp.*3	○ °C					
9		Particles* ⁴	Size and Content%					
10		Wetted material	○ 316SS (Std.) ○ Alloy 400 ○ Hastelloy C-276 ○ Others					
11	Materials of Construction	O-ring material	○ FKM (Viton)(Std.) ○ FFKM (Kalrez) ○ EPDM ○ Others					
12		Valve seat material	○ PTFE (Std.) ○ PEEK ○ PCTFE ○ Others					
13		Inlet/outlet type and size	Inlet Outlet					
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 ○ 100 ml ○ 150 ml ○ 250 ml ○ 300 ml ○ 500 ml ○ 1000 ml ○ 2 oz ○ 4 oz ○ 8 oz ○ 16 oz ○ 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 x 1.4 ○ 2.0 x 2.0 ○ 3.0 x 1.4 ○ 3.0 x 3.0 ○ 4.0 x 1.4 ○ 6.0 x 1.4					
19	Bottle	Bottle material	○ Soda-lime glass (Std.) ○ Amber glass ○ Borosilicate glass ○ Polyethylene ○ Polypropylene ○ Others					
20		Septum material	○ PTFE coated silicone(Std.) ○ EPDM ○ Silicone rubber ○ FKM ○ PTFE coated butyl ○ Natural rubber ○ Others					
		Cap material	O Polypropylene OPBT (Polybutylene terephthalate) Aluminium					
22	211	Cylinder volume	○ 75 ml ○ 150 ml ○ 300 ml ○ 500 ml ○ 1000 ml ○ 2250 ml ○ Others					
23	Cylinder	Cylinder material	316L (Std.) 304L ○ Alloy 400 □ PTFE coated ○ Others					





Application Questionnaire for Selection of FITOK Sampling System

24		Enclosure type and material		Standard	○Insulated	Э	304SS (Std.) 316SS	
24	Accessories			Heated by electric Heated by steam Others				
25		Panel		Material	○ 316SS (30455	Others	
26		Pipe stand		Material	○ 304SS (CS20	Others	
27		Cooler		Cooling inlet/outlet type and size Inle		Inlet	Outlet	
28		Steam tracing		Steam inlet/outlet type and size Inle		Inlet	Outlet	
29		Others*5						
30	P&ID	Please provide comments or sk						
31	Documentation	Material Certification EN10	204:200	U4-3.1	Inspection & tes	sting report		
32		Others, please specify:						
Remark	temarks: *1 Fix volume 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 μ m.
- *5 If other accessories (such as: check valve, carbon canister, spring return handle and etc.) are needed, please specify.
- 6 Single choice Optional

