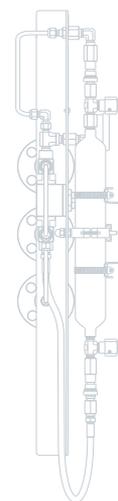
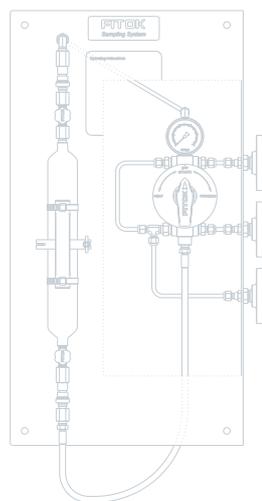
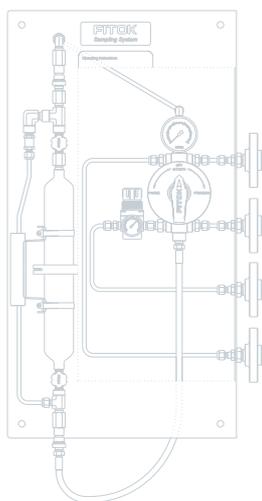


# FITOK

## Full Technical Catalog For Sampling Systems



FITOK Full Technical Catalog  
For Sampling Systems

# Contents

## Overview

1

## BL - Bottle Configuration Sampling Systems for Liquids

3	A Series	BLA1 - On-off Type	3
		BLA2 - System Purge Type	5
		BLA3 - Back Purge Type	7
		BLA4 - Needle Purge Type	9
		BLA5 - Back and Needle Purge Type	11
		BLA6 - System Purge and Continuous Needle Purge Type	13
		BLA7 - In-line and Needle Purge Type	15
17	B Series	BLB1 - On-off Type with In-line Ball Valve	17
		BLB2 - On-off Type with In-line Needle Valve	19
		BLB3 - In-line and Continuous Needle Purge Type	21
23	C Series	BLC1 - Purge Type	23
		BLC2 - Fixed Volume and Purge Type	25
		BLC3 - Fixed Volume Type with Heating/Cooling Jacket	27
		BLC4 - Solvent Purge Type	29
31	D Series	BLD1 - Threaded Connection Type	31
		BLD2 - Continuous Needle Purge Type	33
		BLD3 - Heating/Cooling Type	35
		BLD4 - Sampling by Gravity Type	37
		BLD5 - Sampling by Gravity Type with Heating/Cooling Jacket	39
41	E Series	BLE1 - Back Purge Type with Vacuum Connection	41
		BLE2 - Back and Needle Purge Type with Vacuum Connection	43
		BLE3 - Back Purge Type with Venturi Unit	45
		BLE4 - Back and Needle Purge Type with Venturi Unit	47
		BLE5 - Overflow Type with Vacuum Connection	49
		BLE6 - Fixed Volume Type	51

## CS - Cylinder Configuration Sampling Systems for Liquefied Gases

53	F Series	CSF1 - System Purge Type with Expansion Chamber	53
		CSF2 - Expansion Chamber Purge Type	55
		CSF3 - Bypass Purge Type with Expansion Chamber	57
		CSF4 - Vent to Flare Type with Expansion Chamber	59
		CSF5 - Outage Tube Type	61
		CSF6 - Bypass Purge Type with Outage Tube	63
		CSF7 - Vent to Flare Type with Outage Tube	65

## CG - Cylinder Configuration Sampling Systems for Gases

67	G Series	CGG1 - System Purge Type	67
		CGG2 - Bypass and System Purge Type	69
		CGG3 - Vent to Flare Type	71

## SR - Sample Handling Systems

73	R Series	SRB - Sample Recovery System for Bottle	73
		SRC - Sample Emptying System for Cylinder	75

## Accessories

77	Sample Bottles	77
	Septa	77
	Caps	77
	Needle Assemblies	77
	Sleeves	77
	Valves	78
	Cylinders and Cylinder Assemblies	78
	Metal Hoses	78
	Quick-connects	78

<b>Application Questionnaire for Selection of FITOK Sampling Systems</b>		79
--	--	----

# Overview

Sampling system, also known as sampler, is a kind of equipment used for representative sample collection from industrial processes. Due to the growing complexity of the industrial processes, the requirements for product analysis increase continuously, and the safety for sampling process is given more and more consideration. The simple and primitive sampling system has evolved into a safe and reliable closed-loop sampling system. FITOK offers two kinds of sampling systems, namely bottle configuration sampling systems and cylinder configuration sampling systems according to the difference of container. For bottle configuration sampling systems, the sample is drawn into the sample bottle at atmospheric pressure. For cylinder configuration sampling systems, however, the sample is drawn into the sample cylinder at process pressure.

## Advantages of FITOK Sampling Systems

- Safer for the operator
- Safer for the sample
- Safer for the environment
- Ease of operation
- Ease of maintenance
- Economical
- Customization

## Bottle Configuration Sampling Systems

- Configuration: The container consists of bottle, septum and cap. The sampler consists of tubing, valves and fittings.
- Operating principle: During sampling, the sample can flow into the sample bottle through the process needle, while air and vapor in the bottle are vented through the vent needle. When the required amount has been taken, close the sampling system and take out the sample bottle from the sleeve to complete the sampling process.
- Applicable process conditions: High-temperature, high-pressure, high-viscosity, corrosive, high-toxicity or environmentally hazardous liquids.
- Mounting types: In-line mounted, wall-mounted and bracket-mounted.



# Cylinder Configuration Sampling Systems

- ⦿ Configuration: The container consists of a cylinder at both ends equipped with a needle valve and a quick-connect. The sampler consists of tubing, valves and fittings.
- ⦿ Operating principle: During sampling, the sample can flow into the sample cylinder via the sampling loop. When sampling liquefied gases, a fixed amount of sample is transferred to the expansion chamber to make sure that the cylinder is not fully filled. Close the needle valves at both ends of the cylinder to depressurize the quick-connect through the vent. Remove the cylinder from the sampling system to complete the sampling process.
- ⦿ Applicable process conditions: High-temperature, high-pressure, corrosive, high-toxicity, high-volatility or environmentally hazardous liquefied gases, liquids and gases.
- ⦿ Mounting types: Wall-mounted and bracket-mounted.



## Options

- ⦿ Panel
- ⦿ Enclosure
- ⦿ Pipe stand
- ⦿ Carbon canister
- ⦿ Spring return handle
- ⦿ Lockable handle
- ⦿ Connection type
- ⦿ Size and material