



*The
Sampling
Connection*

MODEL MFV FIXED VOLUME SAMPLE PANEL



FIXED VOLUME SAMPLE PANEL

“Single Action” Sampling for Safety and Simplicity

Features

- Eliminates possibility of over filling of sample bottle
- Interchangeable fixed volume and needle assemblies for operational flexibility
- Optional spring-loaded valve provides double block safety

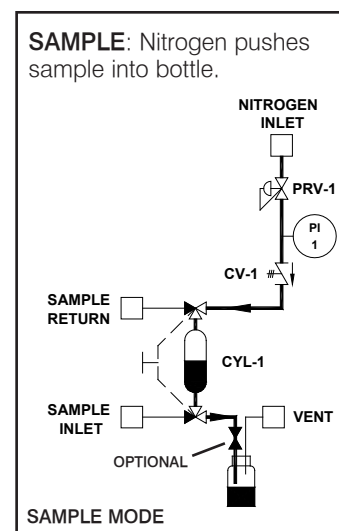
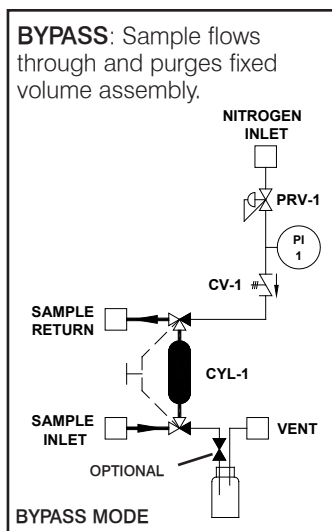
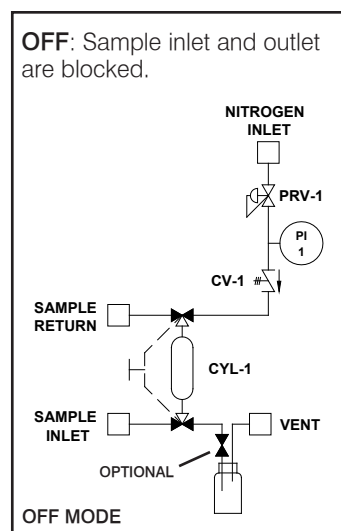
Description

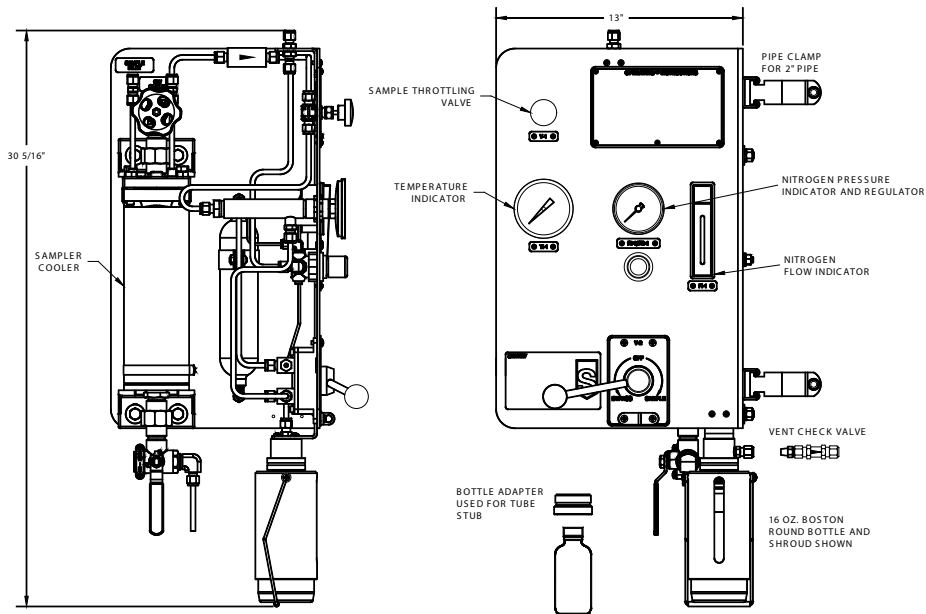
The Sentry fixed volume sampler provides a representative and repeatable fixed volume sample with a single operator that provides multiple functions with each manipulation of the valve handle. Two zero dead volume 3-way valves are controlled via an external gear box that initiates multiple valve positions with one lever.

This design provides for safe, simple and accurate sampling. Compared to other samplers, the design also allows for quick change of the fixed volume assembly to other volume sizes without repiping or changing the sampling valve.

An optional spring-loaded valve provides for double block safety if required.

The fixed volume sampler incorporates Sentry's low emission needle sampler design including: **1)** patented non-coring, side-discharge needle design to improve septum integrity; **2)** low dead volume sampling valve; **3)** interchangeable needle assembly to vary needle/tube stub sizes.





FIXED VOLUME SAMPLER MODEL NUMBERS

Sampler Series	Switching Valve Size	Inlet/Outlet Connections+	Standard Valve	Pressure/Temperature
MFV-44	1/4"	1/4"	316 SS	1800 psi @ 300°F (124 bar @ 148°C)
MFV-64	3/8"	3/8"	316 SS	1800 psi @ 300°F (124 bar @ 148°C)
MFV-84	3/8"	1/2"	316 SS	1800 psi @ 300°F (124 bar @ 148°C)

MODEL NUMBER OPTIONS

A – Fill Needle (O.D.)	B – Vent Needle (O.D.)	C – Bottle Type	D – Bottle Size	E – Septum Type	
1 = 0.065"	1 = 0.065"	B = Boston Round	1 = 2 oz. (60 ml)	TS = Teflon® coated Silicone	
2 = 0.083"	2 = 0.083"	S = Schott	2 = 4 oz. (118 ml)	X = Special	
3 = 0.110"	3 = 0.110"	X = Special	3 = 8 oz. (237 ml)		
4 = 3/16" tube stub	4 = 9/64" orifice with tube stub		4 = 16 oz. (473 ml)		
			5 = 32 oz. (946 ml)		
F – Carbon Canister	G – Fixed Volume*	H – Sample Cooler**	I – Spring Return Block Valve	J – Seal Material	K – Vent Check Valve
1 = None	1 = 40 ml (1.6 oz.)	1 = None	1 = None	V = Viton®	1 = None
2 = Yes	2 = 100 ml (3.4 oz.)	2 = Yes	2 = Yes	K = Kalrez®	2 = Yes
	3 = 200 ml (6.8 oz.)			E = EPDM	
	4 = 400 ml (13.5 oz.)				
	5 = 700 ml (23.7 oz.)				

+ Standard end connections are compression. Consult factory for other options.
* Bottle size (Option D) must be equal to or greater than fixed volume (Option G).
** Sentry will size a sample cooler to fit your application (includes thermometer, sample line throttling valve and cooling water inlet & outlet valves).
Options: PS = Pipe Stand (galvanized).

Example: MFV-44-12-B1TS-111V1 is a 3/8" SS sampler (1/4" compression connections) with a 0.065" fill needle, 0.083" vent needle, Boston Round, 2 oz. bottle, Teflon® silicone septum, without carbon canister, 40 ml fixed volume assembly, without cooler, without spring return block valve, Viton® seals, without check valve.

WARNING

It is solely the responsibility of the end-user, through its own analysis and testing, to select products and materials suitable for their specific application requirements, ensure they are properly installed, safely applied, properly maintained, and limit their use to their intended purpose. Improper selection, installation, or use may result in personal injury or property damage.



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