



Gas



Liquid & Slurry



Solid & Powder



Steam & Water

SENTRY MFV SAMPLER

Low Emission Samplers

MANUAL SAMPLING

The Sentry® MFV manual low emission sampler is ideal for sampling fixed volumes of liquid and slurry material. Two zero dead volume three-way valves are controlled via an external gear box that initiates multiple valve positions with one lever.

MODELS

MFV

BENEFITS

The Sentry MFV sampler provides representative samples while protecting the safety of operators and the environment. The sampler easily provides multiple functions with each manipulation of the valve handle.

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 Sentry MFV sampler features a patented side-discharge dual needle assembly that ensures septum integrity and full venting of process vapors. This non-coring needle punctures the septum without coring it, allowing for full resealing of the septum when the sample bottle is removed. The tapered bottle shroud enables proper septum and needle alignment, preventing accidental spillage or needle breakage.

A variety of needle arrangements and sample bottle sizes are available to meet most sampling requirements. Additionally, a tube stub option is available for high viscosity fluids or slurries that contain particulates.

FEATURES

- Eliminates over-filling of sample container
- Fixed volume and needle assemblies are interchangeable for operational flexibility
- Optional spring-loaded valve provides double block safety
- Low dead volume sampling valve ensures representative sample
- Interchangeable needle assembly allows variation of needle/tube stub sizes as needed to meet various applications

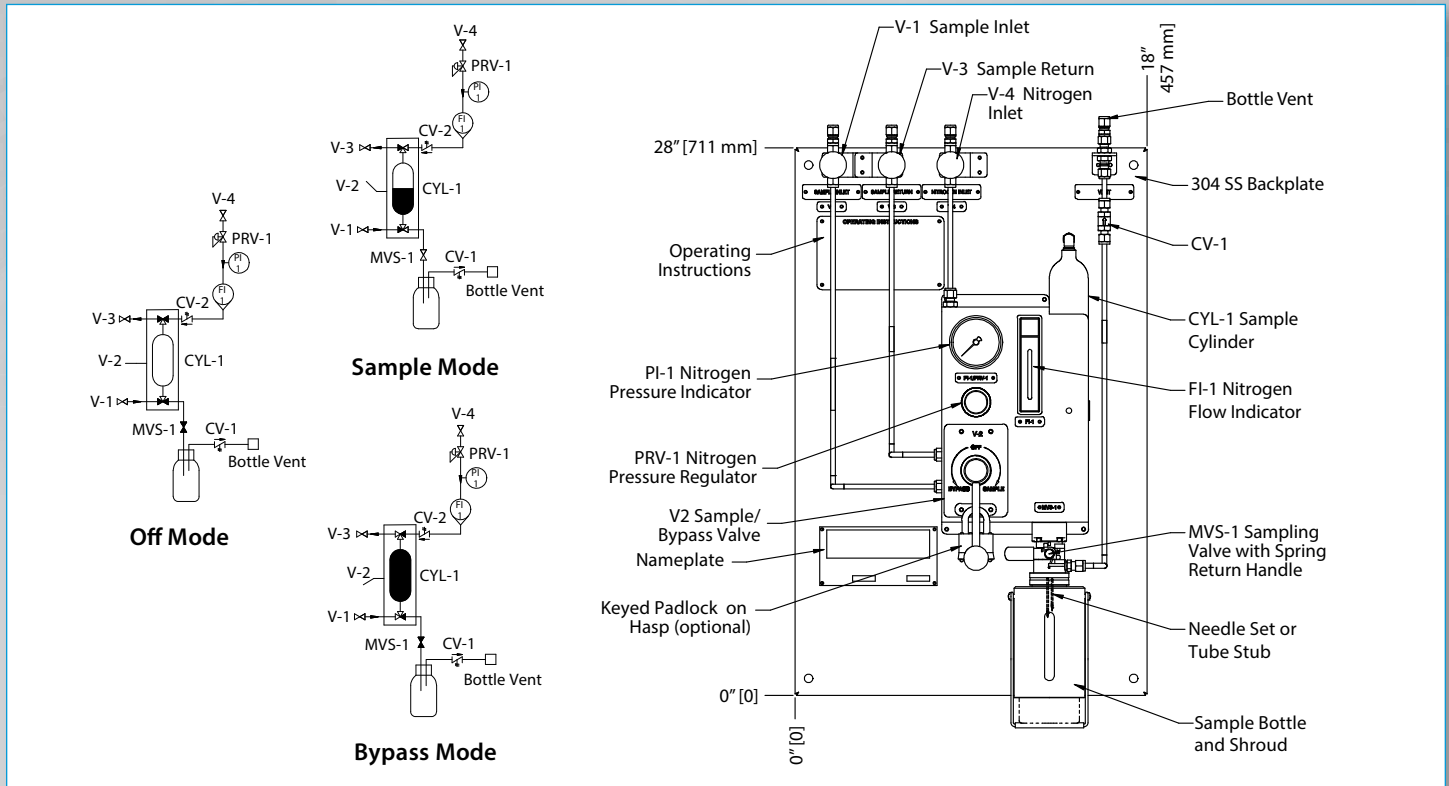


Sample. Monitor. Measure.



SENTRY

Any Application. Anywhere.



SPECIFICATIONS

wetted materials	316 stainless steel, EPDM, Viton® or Kalrez®			
bottle shroud	nylon, when applicable			
standard pressure rating	1800 psi max at 100°F (124 bar at 148°C); 300°F max at 1230 psi (149°C at 85 bar)			
septum materials	Teflon® coated silicone			
mounting	galvanized steel pipe stand			
sampler size	switching valve		inlet/outlet connections*	
	1/4 in (6 mm)		1/4 in (6 mm)	
	3/8 in (10 mm)		3/8 in (10 mm)	
	3/8 in (10 mm)		1/2 in (15 mm)	
*standard end connections are compression; other options available				
sampler interface	needle assembly (OD)*		bottle size and fixed volume	
	process		bottle	
	vent		fixed volume	
	0.065 in	0.065 in	2 oz (60 ml)	1.0 oz (30 ml)
	0.065 in	0.083 in	4 oz (118 ml)	2.5 oz (75 ml)
	0.083 in	0.083 in	8 oz (237 ml)	5.0 oz (150 ml)
	0.110 in	0.083 in	16 oz (473 ml)	10.1 oz (300 ml)
	0.083 in	0.110 in	32 oz (946 ml)	20.2 oz (600 ml)*
	*others also available		*Sampler is cycled twice to obtain sample volume	
	tube stub assembly (OD)			
process				
vent				
0.188 in	0.140 in			

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