



MODEL MBP Back Purge Sampler Panel

**Safe, accurate sampling for
tanks, pipes and vessels**



Features

- Eliminate sample waste or sample recovery
- Sampler and sample line are purged in each sample cycle ensuring a representative sample
- Spring-loaded sampling valve assures operator safety

Description

The Sentry back purge sampler makes the advantages of closed loop type samplers available for applications where there is no separate return or drain line connection. By purging the sample source and the sampler as part of every sampling cycle, a new representative sample is taken each and every time.

Two types of samplers are available based on the sample volume required. The standard model MBP is designed for sample volumes above 1 oz. (30 ml) and is available in various sample flow path and connection sizes. The low volume model MBP back purge sampler is designed specifically for minimal flow path size so sample volumes as low as 0.033 oz. (1 ml) can be taken representatively.

How It Works

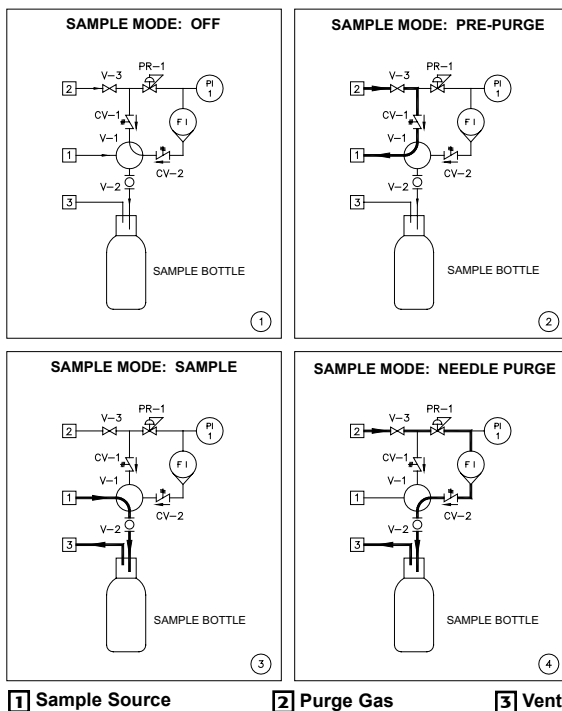
The sampler only requires the connection of a compressed gas source for purging, the sample source, and a vent line. All operations are controlled with a 4-position sample selection valve.

Off Position: Both the purge gas and sample source are blocked and isolated by the selection valve.

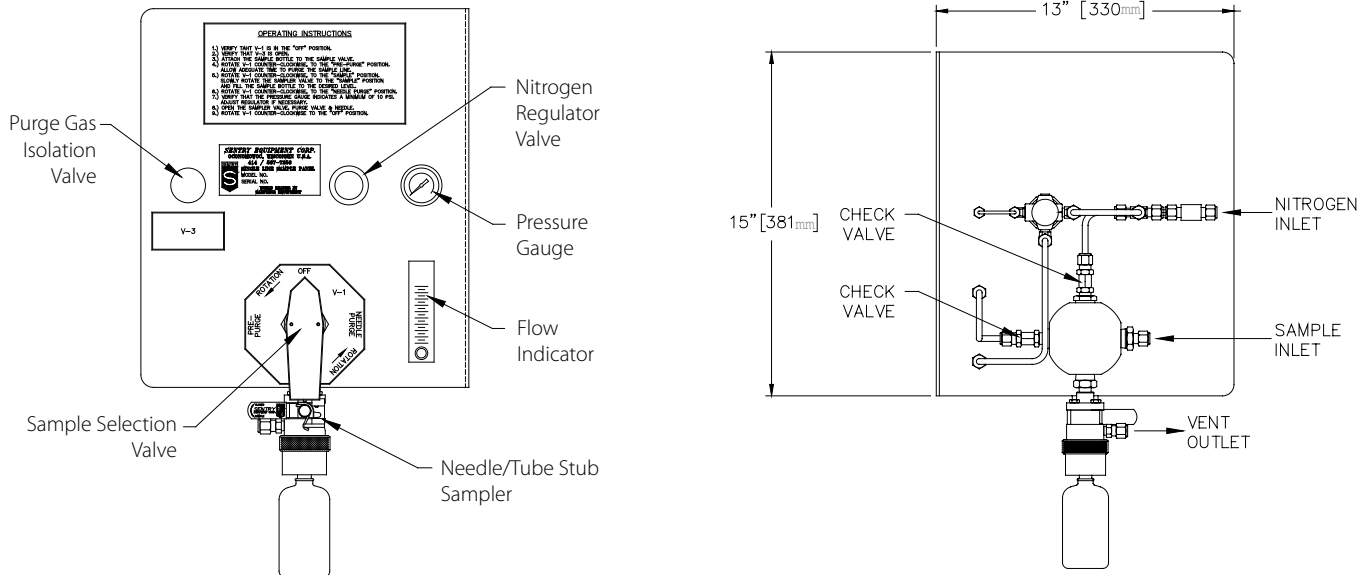
Pre-Purge Mode: The purge gas is routed back through the sample line to the sample source. The amount of pre-purge time is based on the line size, length of the line, sample viscosity, etc.

Sample Mode: The representative sample from the source flows through the sample line and selection valve to the needle/tube stub sampler assembly. The operator uses the spring loaded sample valve to fill the sample bottle to the desired level safely.

Needle Purge Mode: An adjustable flow of regulated purge gas is routed to the sampler so the operator can purge the needle/tube stub. The selection valve is placed in the off mode again and the sampler is clean and secured, awaiting another sampling process.



BACK PURGE SAMPLER TECHNICAL DATA



BACK PURGE SAMPLER OPTIONS

Size Chart

Size*
1/4" (6 mm)
1/4" (6 mm)
3/8" (10 mm)
1/2" (15 mm)

Sampler Interface

Needle Assembly (O.D.)**	
Process	Vent
0.065"	0.065"
0.065"	0.083"
0.083"	0.083"
0.110"	0.083"
0.083"	0.110"
Tube Stub Assembly (O.D.)	
0.188"	0.140"

Sample Bottle Size and Type

Boston Round	Schott/Duran
Size: oz. (ml)	Size: ml
2 (60)	50
4 (125)	100
8 (250)	250
16 (500)	500
32 (1000)	1000

Notes:

*Standard end connections are compression. Purge gas and vent connections are 1/4" (6 mm) compression on all models.

**Consult factory for other needle/tube stub arrangements.

- Boston round bottle cap/thread interfaces per GPI finish standards. Schott/Duran bottle cap/thread interfaces per ISO 4796. • Glass vials available in 4, 20 or 40 ml. Standard septum material is Teflon[®]-coated silicone. Consult factory for other bottle or septum arrangements.
- Enclosures for containment and other special features available. Please consult factory.

SPECIFICATIONS

Wetted Materials	316 Stainless Steel, Viton [®] or Kalrez [®]
Shroud	Nylon (when applicable)
Pressure Rating	Sample: 250 psig (17.3 barg) @ 150°F (65° C) Purge gas: 20% above sample pressure not to exceed 300 psig (20.7 barg)
Needle Purge	Purge gas regulator: 5-50 psig (0.3-3.5 barg) adjustable; Rotameter: 0-2 SCFH, valved
Mounting	Pipe or wall

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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