



# BPTS BACK PURGE SAMPLER PANEL

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

- 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

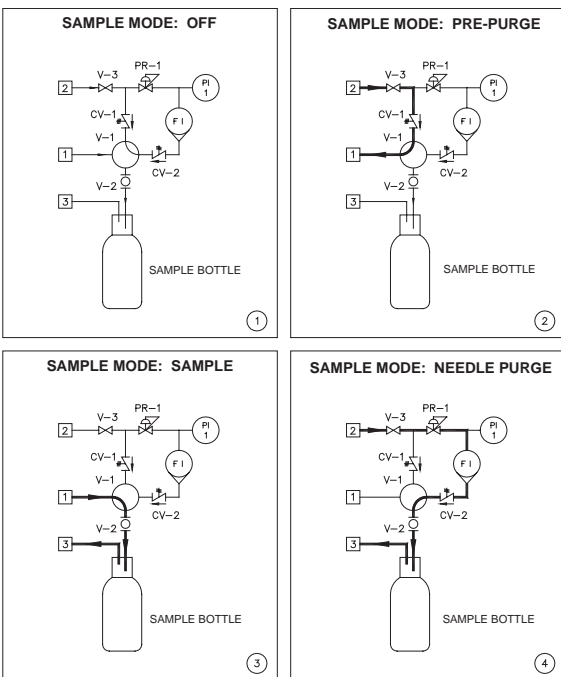
The Sentry BPTS sampler makes the advantages of closed loop type samplers available for applications where there is no separate return or drain line connection. By purging the sample source and the sampler as part of every sampling cycle, a new representative sample is taken each and every time.

Two types of samplers are available based on the sample volume required. Our standard model BPTS is designed for sample volumes above 1 oz. (30ml) and is available in various sample flow path and connection sizes. Our low volume model BPTSL is designed specifically for minimal flow path size so sample volumes as low as 0.033 oz. (1ml) 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.



1 Sample Source    2 Purge Gas    3 Vent

## SPECIFICATIONS

- Wetted Materials:** 316SS, 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)  
**Mounting:** Pipe or wall  
**Needle Purge:** Purge gas regulator - 5 to 50 psig (0.3 to 3.5 barg) adjustable; Rotameter - 0-2 SCFH, valved

### SAMPLER OPTIONS

#### Size Chart

Size	Designator
1/4" (6mm)	LC1/4 (low volume)
1/4" (6mm)	C1/4
3/8" (10mm)	C3/8
1/2" (15mm)	C1/2

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

#### Sampler Interface

Process	Vent	Designator
Needle Assembly (I.D.)		
0.065"	0.065"	11
0.065"	0.083"	12
0.083"	0.083"	22
0.110"	0.083"	32
0.083"	0.110"	23
Tube Stub Assembly (I.D.)		
0.188"	0.140"	44

- Add V for Viton® or K for Kalrez® to specify O-rings
- Consult factory for other needle/tube stub arrangements

#### Sample Bottle Size & Type

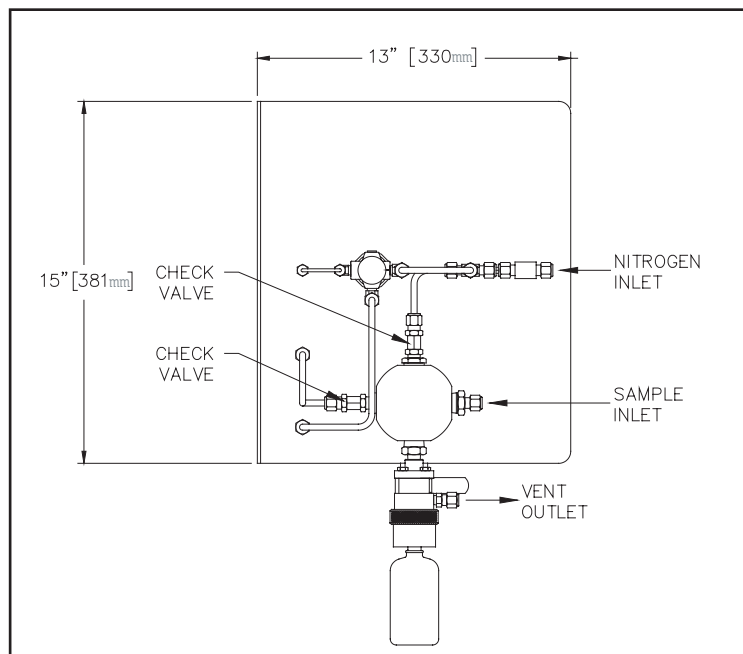
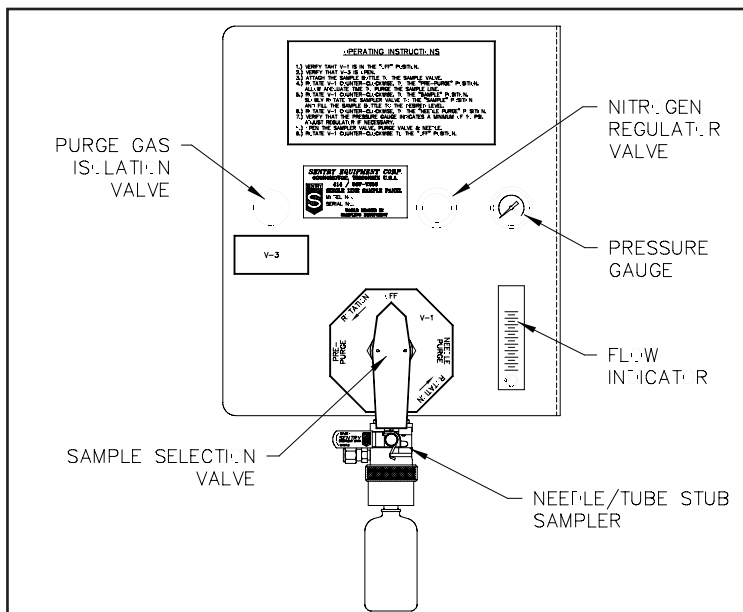
Boston Round		Schott/Duran	
Size (oz/ml)	Designator	Size (ml)	Designator
2 (60)	B2	50	S50
4 (125)	B4	100	S100
8 (250)	B8	250	S250
16 (500)	B16	500	S500
32 (1000)	B32	1000	S1000

- Add S for septum cap (needle assembly) or P for plain cap (tube stub assembly). Boston Round bottle cap/thread interfaces per GPI finish standards. Schott/Duran bottle cap/thread interfaces per ISO 4796. 4, 20 or 40 ml glass vials available.
- Standard septum material is teflon coated silicone.
- Consult factory for other bottle or septum arrangements.

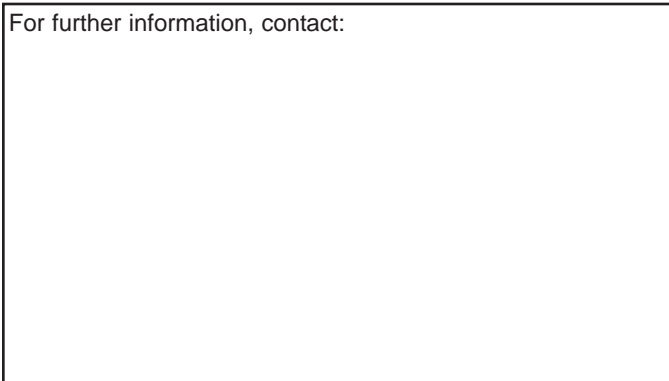
#### Other

Enclosure for containment and other special features available. Please consult factory.

**Example:** Model BPTS-C3/8-44V B8P is a back purge sampler with 3/8" connections and min. flow path diameter to the sampler tube stub. Tube stub is 0.188", vent is 0.144" and bottle is 8 oz Boston round with a plain cap. O-Rings are Viton®.



For further information, contact:



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