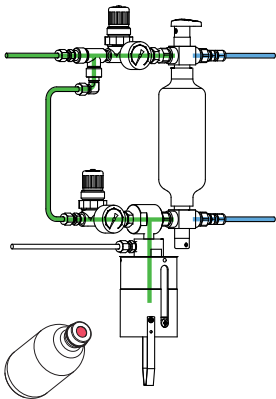


The ability to purge the sample point ensures optimal retrieval of a representative, contamination free sample. The S23 type sampler in continuous needle purge configuration provides a system purge and continuous needle purge in addition to a fixed sample volume.

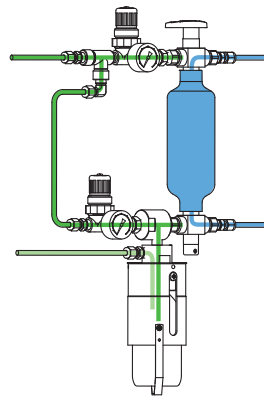
The unique design offers a one handle operation by multiple valves, allowing for sampling independent of the process conditions. These features provide sample accuracy and safety.

**1 OPERATION/FUNCTION**



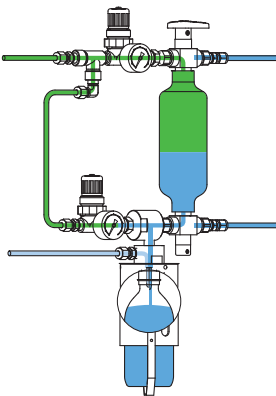
**0 - off**

Provide a new septum on your sample bottle. Insert the bottle, with cap and septum into the sleeve until the septum is pierced by the needles. Put the bottle retaining clip in place. A flow of inert gas purges the needle assembly continuously.



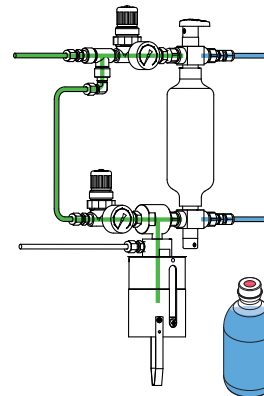
**1 - system purge**

Turn the handle to the "bypass" position, allowing a continuous flow of liquid through the sampler to ensure representative sampling. This position can be held for any required time. A flow of inert gas purges the needle assembly and sample bottle continuously.



**2 - sample**

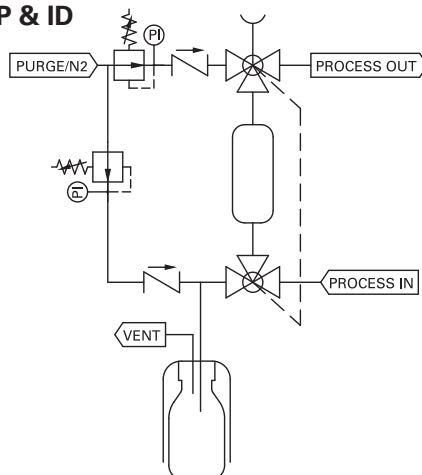
Turn the handle to the "sample" position, allowing the product to flow into the sample bottle. The fixed volume sample chamber determines the amount of sample. The inert gas will assist the sample to flow into the bottle and will purge the sampler. This position can be held for any required time.



**3 - off**

Turn the handle to the "off" position. Remove the bottle retaining clip and pull the bottle out from the sleeve. The septum reseals automatically. A flow of inert gas purges the needle assembly continuously.

**2 TYPICAL P & ID**



Continuous purge (D2)



### 3 FEATURES/ADVANTAGES/PROPERTIES

- Sampling directly under process conditions
- High pressure and vacuum applications
- Representative sampling
- Zero dead volume
- Closed sampling
- One handle operation
- Fixed volume sampling
- Purging of sampler
- Continuous purging of needle assembly and sample bottle

### 4 BASIC SPECIFICATIONS

<b>Material</b>	SS316, SS316L.
<b>Sleeve type</b>	60cc sleeve with bottle retaining clip.
<b>Needle assembly</b>	Single piece VTO needle assembly with vent to outlet connection 1/4" FNPT. Process/vent needle ID: 1.35 mm.
<b>Sample chamber</b>	50cc.
<b>Valve</b>	Three-way ball valve type W83. PTFE seats, Viton A O-rings. Pressure range 103 bar @ 20°C (1500 psig @ 70°F). Temperature range -17/+232°C (0/+450°F).
<b>Operation</b>	Manual.
<b>Connections</b>	1/4" FNPT, regulator, gauge and check valve included.
<b>Please note:</b>	the above is a basic specification only. DOPAK® Samplers can be offered with a wide variety of options as mentioned below.



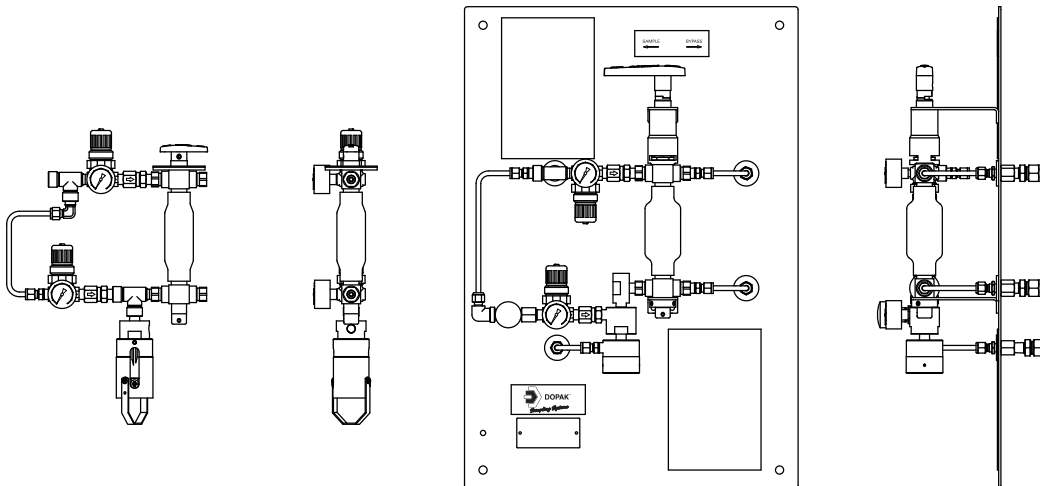
### 5 OPTIONS

- Spring return handle
- Lockable handle
- Mounting plate
- Pipe stand
- Block valve
- Flow meter
- Enclosure
- Steam jacket
- Sample cooler
- Mounting bracket
- Steam sterilizing cap
- Welded connections
- Exotic materials
- Larger/smaller sample size
- Third coupled valve

For more information please refer to our sheets:

**Options for DOPAK® process samplers, sampling into a bottle.**

**Components for DOPAK® process samplers.**



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