The ability to purge the sample point ensures optimal retrieval of a representative and contamination free sample. The DPM type sampler in system purge configuration allows product to flow continuously through the sampler ensuring a fresh sample and also allows to purge the needle assembly continuously before and after sampling.

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 “system purge” 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 needle assembly and sample bottle continuously.

2 - sample
Turn the handle to the “sample” position, allowing the product to flow into the sample bottle. When the required amount has been taken, turn the handle to the “off” position.

3 - off
A flow of inert gas purges the needle assembly continuously. Remove the bottle retaining clip and pull the bottle out from the sleeve. The septum reseals automatically.

2 TYPICAL P & ID

System purge / continuous needle purge (A7)
3 FEATURES/ADVANTAGES/PROPERTIES

☐ Sampling directly under process conditions
☐ Low pressure application
☐ Representative sampling
☐ Zero dead volume
☐ Closed sampling

4 BASIC SPECIFICATIONS

<table>
<thead>
<tr>
<th>Material</th>
<th>SS316, SS316L.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sleeve type</td>
<td>60cc sleeve with bottle retaining clip.</td>
</tr>
<tr>
<td>Needle assembly</td>
<td>Single piece VTO needle assembly with vent to outlet connection 1/4” FNPT. Process/vent needle ID: 1.35 mm.</td>
</tr>
<tr>
<td>Valve</td>
<td>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°C/+232°C (0°/+450°F).</td>
</tr>
<tr>
<td>Operation</td>
<td>Manual. (Shown images are equipped with a spring return handle.)</td>
</tr>
<tr>
<td>Connections</td>
<td>1/4” FNPT.</td>
</tr>
</tbody>
</table>

Please note: 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

☐ Sample cooler
☐ Mounting bracket
☐ Steam sterilising cap
☐ Welded connection
☐ Exotic materials
☐ Larger/smaller sample size

For more information please refer to our sheets:
Options for DOPAK® process samplers, sampling into a bottle.
Components for DOPAK® process samplers.