The ability to purge the sample point ensures optimal retrieval of a representative, contamination free sample. The S23 type sampler with cooling/heating jacket provides a system purge and a fixed sample volume at the required temperature. A separate cooler/heater is therefore not necessary. 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.

**1 - system purge**
Turn the handle to the “bypass” position, allowing a continuous flow of liquid through the sample chamber to ensure representative sampling. This position can be held for any required time.

**2 - off - cooling/heating**
Turn the handle to the “off” position and allow a cooling/heating fluid to flow through the jacket. Keep this position for the required time in order to cool/heat the liquid to the required temperature.

**3 - sample**
Turn the handle to the “sample” position allowing the product to flow into the sample bottle. The fixed volume 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.

**4 - 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.
3 FEATURES/ADVANTAGES/PROPERTIES

☐ Sampling independent of process conditions
☐ High pressure and vacuum applications
☐ Representative sampling
☐ Zero dead volume
☐ Closed sampling
☐ One handle operation
☐ Fixed volume sampling
☐ Purging of the sampler
☐ Cooling of the sample

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>Sample chamber</td>
<td>50cc.</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/+232°C (0/+450°F).</td>
</tr>
<tr>
<td>Operation</td>
<td>Manual.</td>
</tr>
<tr>
<td>Connections</td>
<td>1/4” FNPT, regulator, gauge and check valve included. Cooling in/out: 1/2” 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
☐ Mounting bracket
☐ Steam sterilising cap
☐ Welded connections
☐ Continuous needle purge
☐ Exotic materials
☐ Larger/smaller sample size
☐ Temperature indicator
☐ 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.

Dopak Inc.
Houston, Texas 77041, USA
Phone 713-460-8311
Fax 713-460-8578
E-mail info@dopak.com

Dovianus BV
Bergschenhoek, The Netherlands
Phone +31 10 524 20 00
Fax +31 10 456 67 74
E-mail info@dopak.nl

Your local representative: