The ability to purge the sample point ensures optimal retrieval of a representative, contamination free sample. The S23 type sampler with third coupled valve configuration provides a system purge and positive vent line shut off 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. The valve in the vent line is closed.

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. The valve in the vent line is closed.

2 - 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 into the bottle and will purge the sampler. This position can be held for any required time. The valve in the vent line is opened.

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. The valve in the vent line is closed.

2 TYPICAL P & ID

Third coupled valve/vent shut off (D4)
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 sampler
☐ Positive vent line shut off

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&quot; 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 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&quot; FNPT, regulator, gauge and check valve included.</td>
</tr>
<tr>
<td>Please note:</td>
<td>the above is a basic specification only. DOPAK® Samplers can be offered with a wide variety of options as mentioned below.</td>
</tr>
</tbody>
</table>

5 OPTIONS

☐ Spring return handle
☐ Lockable handle
☐ Mounting plate
☐ Pipe stand
☐ Block valve
☐ Flow meter
☐ Enclosure
☐ Steam jacket
☐ Sample cooler
☐ Mounting bracket
☐ Steam sterilising cap
☐ Welded connections
☐ Exotic materials
☐ Larger/smaller sample size
☐ Continuous needle purge

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