**DOPAK® Process Sampler Type S32**

**back purge configuration with vacuum connection (E1)**

The ability to create an under pressure in the sample bottle by a connection to a vacuum source ensures optimal retrieval of a representative, contamination free sample from processes at vacuum conditions or atmospheric pressure. The S32 type of sampler in back purge configuration allows a gas to purge the sampler and process connection prior to sampling ensuring a fresh sample. All S32 type of samplers offer a one handle operation by multiple valves.

1 **OPERATION/FUNCTION**

1 - back purge

Turn the handle to the “back purge” position, allowing a flow of purge gas through the sampler to the process to ensure representative sampling. This position can be held for any required time.

2 - sample

Turn the handle to the “sample” position, allowing the vacuum to be connected to the vent outlet of the needle assembly to create an under pressure in the sample bottle. The product flows into the sample bottle. When the required amount has been taken, turn the handle into the “off” position.

3 - off

Move the bottom part of the bayonet sleeve slightly upwards, turn it and pull it out from the upper part. The septum reseals automatically. Take the bottle out from the bottom part of the bayonet sleeve.

2 **TYPICAL P & ID**

Back purge - vacuum / vent shut off (E1)
3 FEATURES/ADVANTAGES/PROPERTIES

☐ Sampling directly under process conditions
☐ Atmospheric and vacuum applications
☐ Representative sampling
☐ Zero dead volume
☐ Closed sampling
☐ One handle operation
☐ Purging of sampler
☐ Positive vent/vacuum line shut off

4 BASIC SPECIFICATIONS

<table>
<thead>
<tr>
<th>Material</th>
<th>SS316, SS316L.</th>
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</thead>
<tbody>
<tr>
<td>Sleeve type</td>
<td>60cc bayonet sleeve.</td>
</tr>
<tr>
<td>Needle assembly</td>
<td>Single piece VTO needle assembly with TTC ring and vent to outlet connection 1/4&quot; FNPT. Process/vent needle ID: 1.35 mm.</td>
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<tr>
<td>Sample chamber</td>
<td>50cc.</td>
</tr>
<tr>
<td>Valves Process</td>
<td>Three-way ball valve type W83. PTFE seats, Viton A O-rings. Pressure range 103 bar @ 20°C (1500 psig @ 70°F).</td>
</tr>
<tr>
<td>Valves Vent</td>
<td>Two-way ball valve type W43. PTFE seats. Pressure range 206 bar @ 20°C (3000 psi @ 70°F). Temperature range -17/+232°C (0/+450°F).</td>
</tr>
<tr>
<td>Operation</td>
<td>Manual by gearbox.</td>
</tr>
<tr>
<td>Connections</td>
<td>1/4&quot; FNPT, regulator, gauge and check valve included.</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.

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 10 524 20 29
E-mail info@dopak.nl

Your local representative: