The unique design of the Dopak No Bottle No Flow (VTO-NBNF) is based on the conventional Dopak VTO needle assembly and includes a facility to prevent flow without a Dopak bottle with cap and a septum in place.

The VTO-NBNF is a safety feature which can be implemented in both new and existing Dopak samplers.

- No flow of product without a sample bottle into place.
- Secondary shut-off valve (normally closed).
- Implementable in existing Dopak samplers.

The bottle interlock system ensures closure of the needle assembly even if the handle is in “sample” position. Due to the special design the VTO-NBNF enforces the use of a sample bottle with cap and a septum. This way leakage or spillage of the medium is prevented and zero emission accomplished.

The VTO-NBNF provides optimal protection for the operator and the environment and is easy to use.
1 OPERATION

0 - off
Without the sample bottle in place the VTO-NBNF is closed.

1 - sample
When the sample bottle is pushed into place, the VTO-NBNF is automatically opened. In this position the required sampling operation can be performed to allow product to flow into the bottle.

2 - off
When the sample operation is finished, the bottle can be removed. The VTO-NBNF will close automatically.

2 SPECIFICATIONS

<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
<th>Process needle ID (mm)</th>
<th>Vent needle ID (mm)</th>
<th>Process connection</th>
<th>Vent connection</th>
<th>Body materials</th>
<th>O-ring material</th>
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<tr>
<td>2017851</td>
<td>VTO-NBNF</td>
<td>1.35</td>
<td>1.35</td>
<td>1/4 M NPT</td>
<td>1/4 F NPT</td>
<td>SS316</td>
<td>Viton</td>
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<td>3.00</td>
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<td>1/4 M NPT</td>
<td>1/4 F NPT</td>
<td>SS316</td>
<td>Viton</td>
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</tbody>
</table>

The NBNF is standard available in SS316 and a range of special alloys on request. Standard O-ring material is Viton, Kalrez (FFKM) is also available on request.

For any other information required, please contact our sales department at Bergschenhoek or Houston or your local representative.

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