

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.

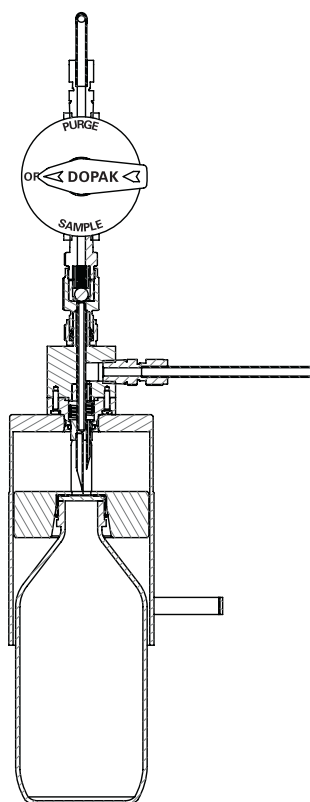
- No flow of product without a sample bottle into place.
- Secondary shut-off valve (normally closed).
- Implementable in existing Dopak samplers.

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.

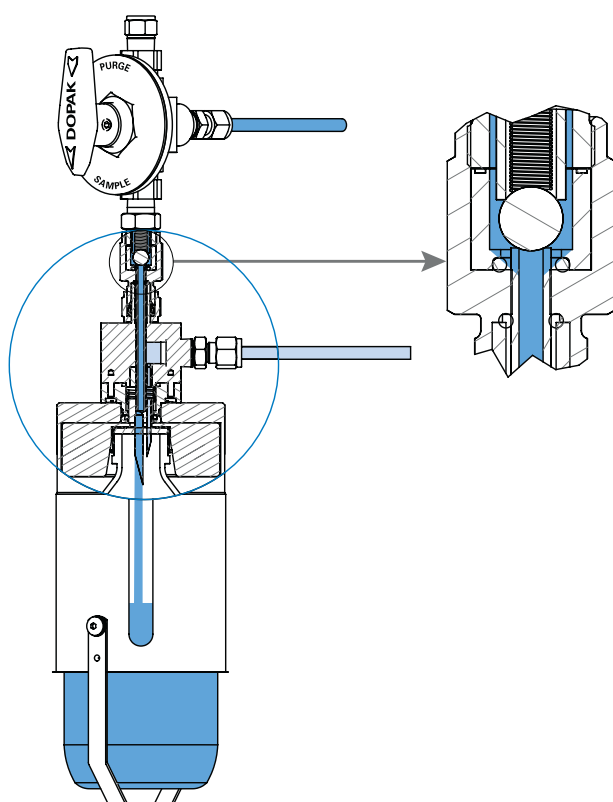


## 1 OPERATION



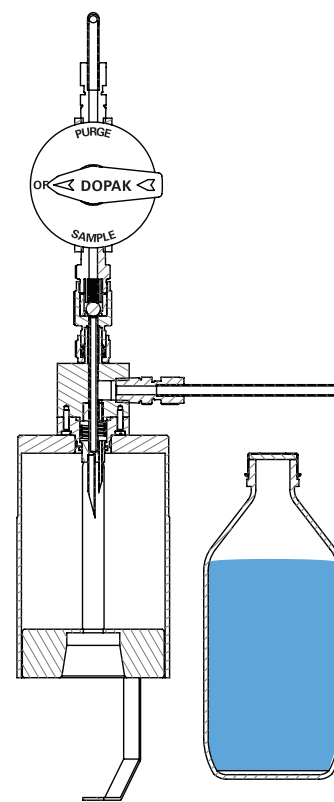
### 0 - off

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

Part number	Description	Process needle ID (mm)	Vent needle ID (mm)	Process connection	Vent connection	Body materials	O-ring material
2017851	VTO-NBNF	1.35	1.35	1/4 M NPT	1/4 F NPT	SS316	Viton
2017852	VTO-NBNF	3.00	1.35	1/4 M NPT	1/4 F NPT	SS316	Viton

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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