

Type VARIO

Sampling System for freely definable sample quantity

Safety first!



for liquid media
Sampling volume / operation: freely selectable

- freely definable representative sample quantity

PN 10 - 100 / Class 150 - 600
Connection: DN 15 / NPS 1/2
Tube fitting

Ventilation:
internally back to system



Design characteristics

- pressure-free sampling (positive overlap)
- closed system
- cavity-free
- spilling eliminated and free of contamination
- absolutely tight
- compact design
- several samplers combinable
- couplings between valves free of clearance

Options

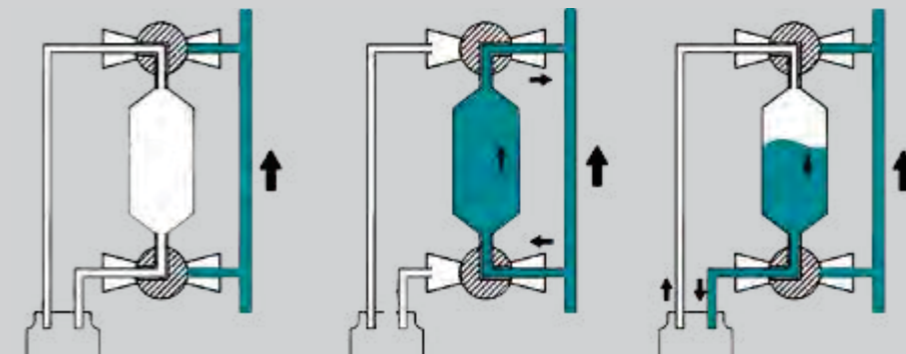
- wall bracket
- materials of valves, pipeline and integrated sample container: Stainless steel, others on request
- flange connection or higher nominal sizes on request
- protection box
- needle system or clamping bottle holder with bayonet fixing
- with actuator

Basic position

Circulation

Sample drawing

Functionality



Due to the integrated stainless steel sample container it is possible to take larger and absolutely representative sample quantities.

Basic sample volumes:

- 100 ml
- 250 ml
- 450 ml
- 900 ml
- 1800 ml


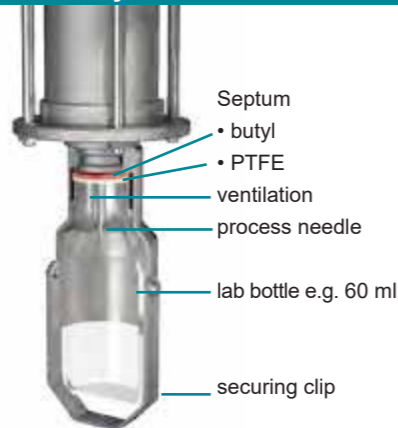
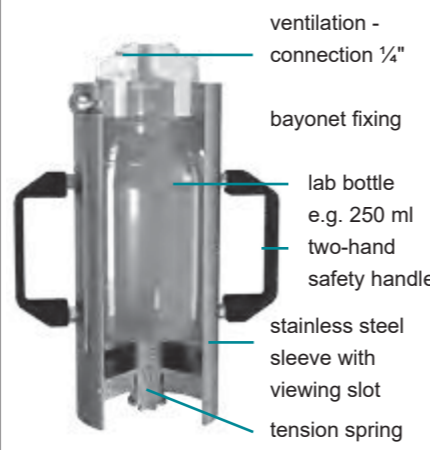

Customized sample volumes on request

Protection box example:

- sampling system in isolated box
- sampling quantity 500 ml
- Nitrogen purge to prevent accumulation of toxic gases inside the protection box
- heating / cooling
- bottle holder with needle system



Bottle connection designs

PTFE adapter	Needle system	Clamping bottle holder
 <p>ventilation - connection 1/4" drain nozzle</p> <p>lab bottle e.g. 250 ml GL45</p>	 <p>Septum • butyl • PTFE ventilation process needle</p> <p>lab bottle e.g. 60 ml</p> <p>securing clip</p>	 <p>ventilation - connection 1/4"</p> <p>bayonet fixing</p> <p>lab bottle e.g. 250 ml</p> <p>two-hand safety handle</p> <p>stainless steel sleeve with viewing slot</p> <p>tension spring</p>
for lab bottles with ISO thread GL32/45 or PP25/28GL32/45 oder PP25/28	for lab bottles with septum (consisting of butyl and PTFE diaphragm) Process needle and ventilation needle with bevel cut	bayonet fixing application for quick and simple replacement of the sampling container for insulated, splinter-protected insertion of the lab bottles
Application		
for liquids and solids-containing media (less toxic resp. polluted media)	for high-toxic liquid media	for hot, cold or less toxic or contaminated media (toxic / non toxic)
Ventilation		
external (1/4" connection at the PTFE adapter)	internal	external (1/4" connection at the PTFE adapter)
Bottle holder design		
threaded PTFE adapter	needle system (septum) with safety Stainless Steel bracket	Clamping bottle holder, with two-hand handle, bayonet fitting, Stainless Steel, PTFE adapter without thread, adaption of the lab bottle with internal spring
Outlet (internal diameter)		
Type CONTIFLOW I.D. = 20 mm PTFE drain nozzle	needle I.D. = 2 mm	Type CONTIFLOW I.D. = 20 mm PTFE drain nozzle
Type CONTIFLOW-A I.D. = 20 mm PTFE drain nozzle		Type CONTIFLOW-A I.D. = 20 mm PTFE drain nozzle
Options		
<ul style="list-style-type: none"> customer threaded PTFE adapter perspex splinter-protection with bayonet fixing flushing device e.g. for N₂ or steam Modul for V_p 75 / 100 ml 	<ul style="list-style-type: none"> Side holes in the needles for minimized puncturing impact on septum needle I.D. = 3 / 4 / 6 mm flushing device e.g. for N₂ or steam Modul for V_p 75 / 100 ml 	<ul style="list-style-type: none"> flushing device e.g. for N₂ or steam Modul for V_p 75 / 100 ml

Bottle connection designs



Standard lab bottle	Bottle volume V _F [ml]	Packing unit [pieces]	Thread / cap size	Diameter [mm]	Height H [mm]
<ul style="list-style-type: none"> DURAN® (clear glass) with plastic cap DURAN® Protect (shatter protected) with plastic cap 	50	10	GL 32	46	87
	100	10	GL 45	56	100
	250	10	GL 45	70	138
	500	10	GL 45	86	176
<ul style="list-style-type: none"> DURAN® Pressure Plus+ (vacuum-capable up to 1 bar vacuum and pressure tight up to +1,5 bar) 	100	10	GL 45	56	100
	250	10	GL 45	70	138
	500	10	GL 45	86	176
	1000	10	GL 45	101	225
<ul style="list-style-type: none"> Lab bottle with septum (clear glass) with Aluminum cap and plastic cap 	60	127	PP 25	39	93
	100	10	PP 28	52	97
	300	10	PP 28	65	151
	500	10	PP 28	77	178
	1000	10	PP 28	98	217



Sample volume

- Standard sample volume 25 ml enough for laboratory tests
- no disposal of waste (saving of costs)

- optionally higher sample volume through repeating operations
- 50/75/100 ml sample volume available for certain executions