

Type SAMPLING-SIC

Isokinetic sampling system for two-phase liquids



for two-phase liquids

Sampling volume: $V_{P\min}$ 25 ml / $V_{P\max}$ 405 ml

Application for fluid transfer

- from tank to tank
- from the tank to the tanker
- in the pipeline
- when buying and selling

>DN 50 / PN 10 - 40

>NPS 2 / Class 150 - 300

Ventilation: to atmosphere

Design characteristics

- drawing of sample proportionally to flow rate or in time intervals
- pressure-free sampling
- defined sample quantity
- horizontal or vertical installation
- sampling container customized
- operation simple and safe
- dimension for installation customized
- manual or automatic operation
- bottle connection with needle system or PTFE adapters

Options

- protection box (lockable, heatable)



Typ KP-S

Sampling directly from container

DN 15 - 100, PN 10 - 40

NPS 1/2 - 4 / Class 150 - 300

Range of application:

-60 < T < 230°C, vacuum-capable

Ventilation: to atmosphere

for liquids and solids-containing media

Sampling volume:

$V_{P\min}$ 25 ml / $V_{P\max}$ 100 ml



Design characteristics

- Sampling drawing directly from containers
- defined sampling drawing with representative sampling quantity

Material

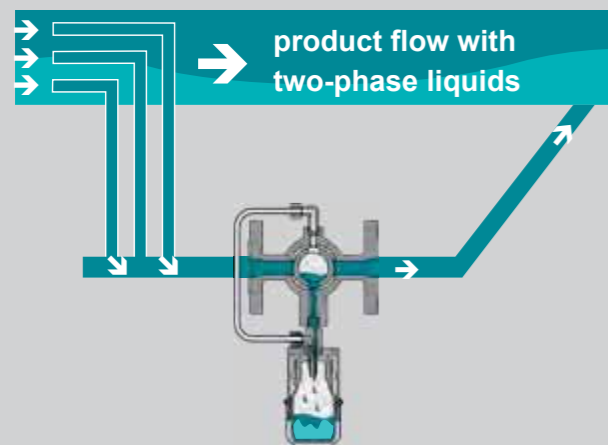
- Stainless steel, others on request

Options

- heating jacket
- flushing device
- actuation
- bottle connection with special thread



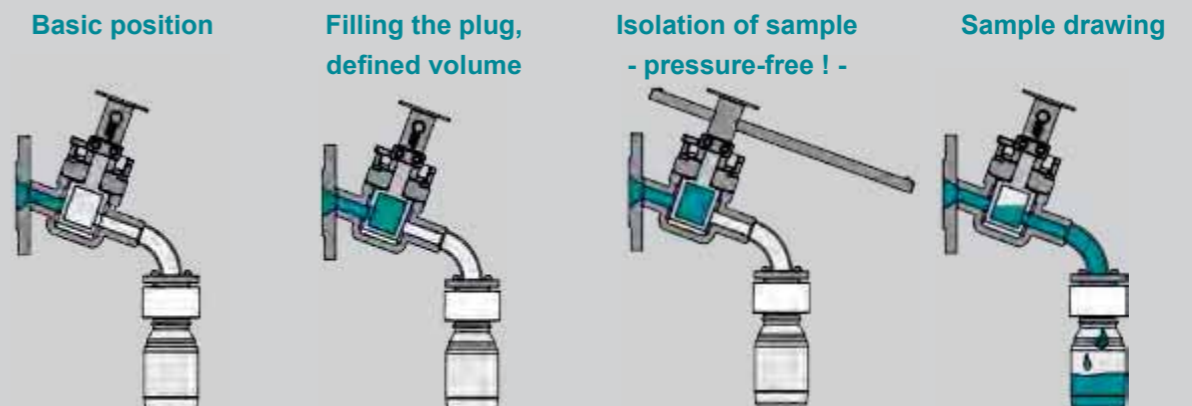
Functionality




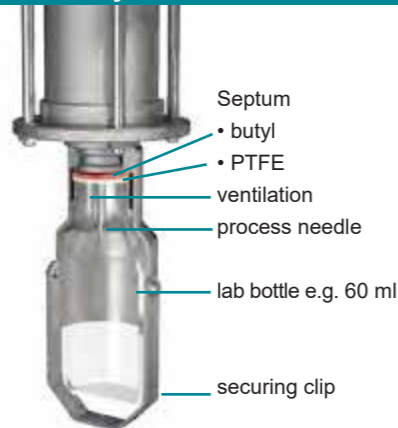
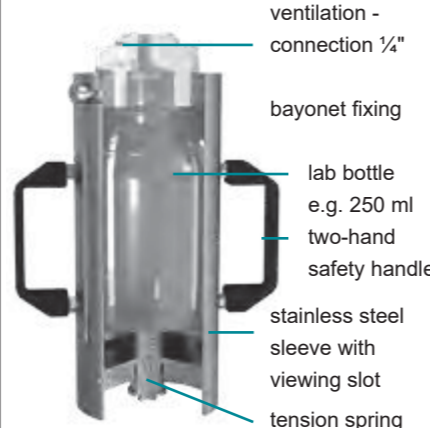

The small tubes in the main line draw a sample over a cross section of the product flow isokinetically. Over a bypass it flows into the sampling system. Thus develops a representative sample of the two-phase liquid.

There is no need of an additional mixer or a centrifugal device !

Functionality



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