

## Type KA-P

### Sampling ball valve with PFA / FEP lining



for liquids and solids-containing media



Sampling volume:  $V_{P_{min}}$  25 ml /  $V_{P_{max}}$  100 ml

DN 15 - 100, PN 10 - 40  
NPS 1/2 - 4 / Class 150 - 300

Range of application:  
-10 < T < 150°C  
vacuum-capable

Ventilation: to atmosphere



#### Design characteristics

- sample drawing directly from containers
- defined sample drawing with representative sampling quantity
- individual bottle connection
- container connection optionally with weld-ends or flanges

#### Material

Stainless steel, others on request

#### Options

- other lining material
- ball made of stainless steel
- automatable

## Type AQUA-P

### Drinking water sampling valve

Simple hygienic-microbiological sampling: AQUA-P is the best solution for easy sampling of drinking water and other non-hazardous liquids

Connection G 1/4"

Ventilation: to atmosphere

for liquids  
Sampling volume:  
freely selectable



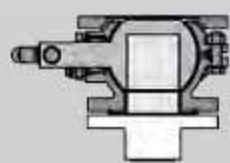
#### Design characteristics

- plug valve free of cavities
- maintenance -free & self-lubricating PTFE sleeve
- absolutely tight
- easy handling
- corrosion resistant (stainless steel)
- no calcification
- singeing of pipe possible
- for old and new installations
- easy replacement of drain valves and threaded valves
- mounting position and pipe position freely adjustable



#### Functionality

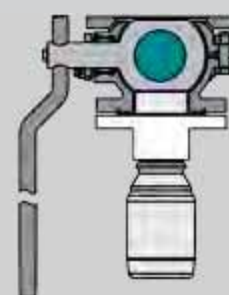
Basic position



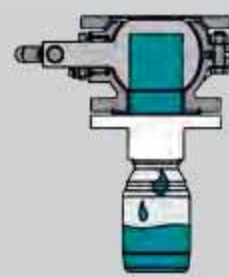
Filling the plug, defined volume



Isolation of sample - pressure-free ! -

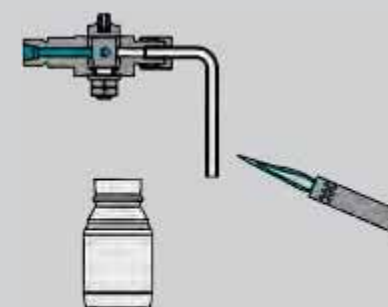


Sample drawing

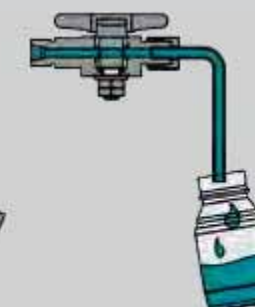


#### Functionality

singeing of pipe with flame




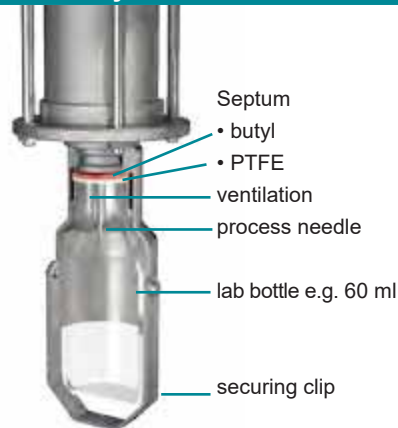
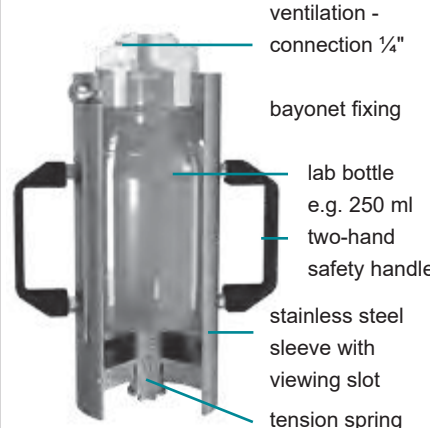

open the valve and filling the bottle



closing position



# 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
<b>Application</b>		
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)
<b>Ventilation</b>		
external (1/4" connection at the PTFE adapter)	internal	external (1/4" connection at the PTFE adapter)
<b>Bottle holder design</b>		
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
<b>Outlet (internal diameter)</b>		
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
<b>Options</b>		
<ul style="list-style-type: none"> <li>customer threaded PTFE adapter</li> <li>perspex splinter-protection with bayonet fixing</li> <li>flushing device e.g. for N<sub>2</sub> or steam</li> <li>Modul for V<sub>p</sub> 75 / 100 ml</li> </ul>	<ul style="list-style-type: none"> <li>Side holes in the needles for minimized puncturing impact on septum</li> <li>needle I.D. = 3 / 4 / 6 mm</li> <li>flushing device e.g. for N<sub>2</sub> or steam</li> <li>Modul for V<sub>p</sub> 75 / 100 ml</li> </ul>	<ul style="list-style-type: none"> <li>flushing device e.g. for N<sub>2</sub> or steam</li> <li>Modul for V<sub>p</sub> 75 / 100 ml</li> </ul>

# Bottle connection designs



Standard lab bottle	Bottle volume V <sub>F</sub> [ml]	Packing unit [pieces]	Thread / cap size	Diameter [mm]	Height H [mm]
<ul style="list-style-type: none"> <li><b>DURAN® (clear glass)</b> with plastic cap</li> <li><b>DURAN® Protect</b> (shatter protected) with plastic cap</li> </ul>	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"> <li><b>DURAN® Pressure Plus+</b> (vacuum-capable up to 1 bar vacuum and pressure tight up to +1,5 bar)</li> </ul>	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"> <li><b>Lab bottle with septum</b> (clear glass) with Aluminum cap and plastic cap</li> </ul>	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