

## Aseptic Valves

The valve body of the RIEGER Aseptic Valves is hermetically sealed against environment and this guarantees complete security for your liquid products. The design of the valve bodies eliminating dead space and the optimized surfaces make them a prerequisite for sterile process engineering. Due to the building block system the change from aseptic to hygienic, from "air to open" to "air to close", from liquid to fibrous and granular media is possible without problems. Also the installation dimensions can be customized to the givens in place. Under special conditions such as high sterilization temperatures, RIEGER Aseptic valves fulfill all demands on operational security and reliable function.



## BOTTOM SEAT VALVE

...combined with CIP valves



## BIOCHECK COMBI VALVE

... no dead spaces

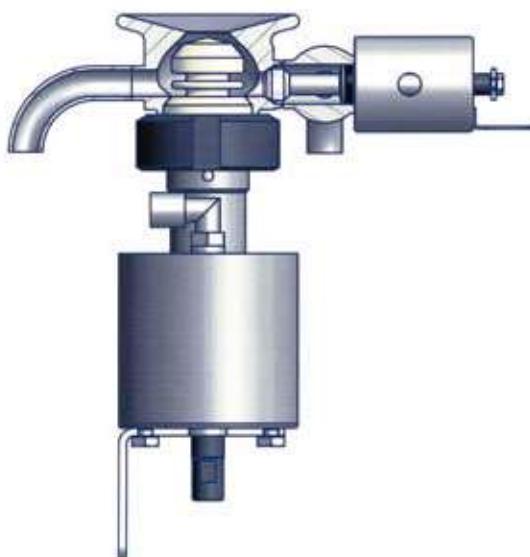
### FEATURES

- extremely space saving
- with lever or proximity switch bracket on sampling valve
- steam and product sampling valve are directly mounted to valve body
- a separate steam valve is not required
- no product back flow into steam piping during sampling



## DIRECT STERILIZATION OF VALVE BODY WITHOUT DEAD SPACES

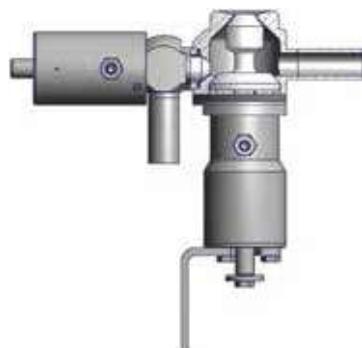
- with one or two CIP valves
- main valve as well as CIP valves either manually or pneumatically actuated
- very small mounting dimensions



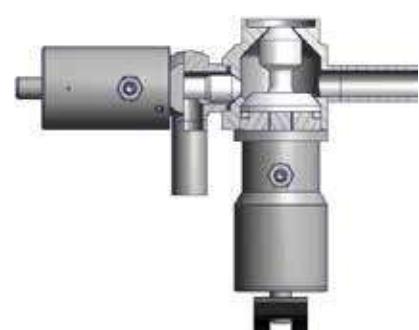
3-A versions available see  
3-A certificate on website  
[www.rr-riege.de](http://www.rr-riege.de)



for clamp mounting



for tank (vessel) mounting



for pipe or tubing



## ASEPTIC SAMPLING VALVES

### Sampling in a bottle

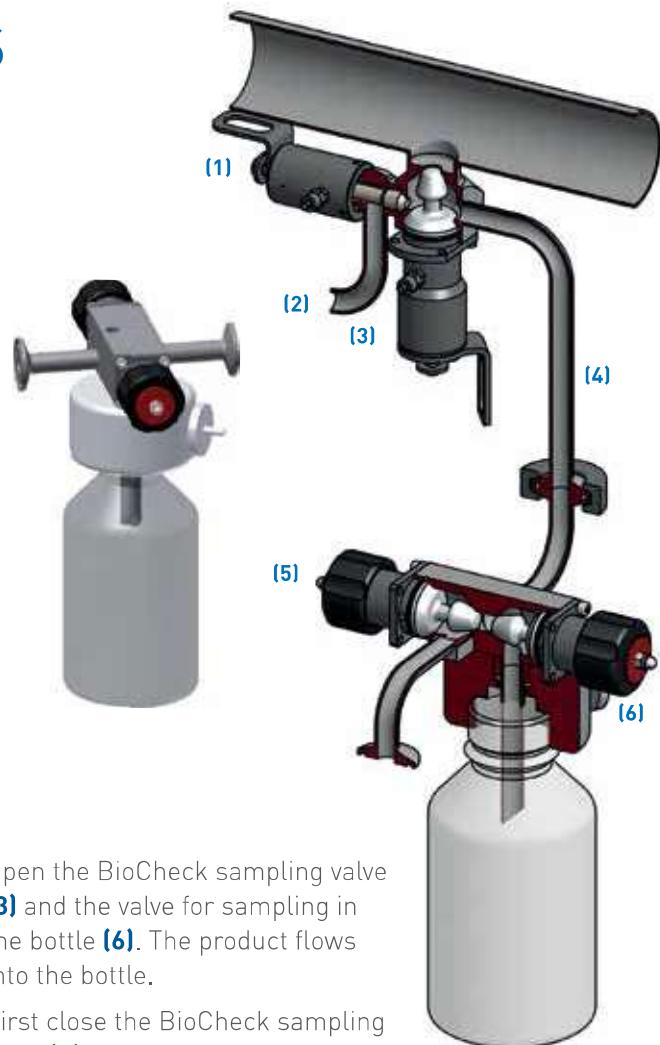
With the BioCheck sampling valve PB5, samples can be taken from sealed systems like tanks and pipelines simply and safely. In the design of this sterile valve, special attention was paid to an aseptic yet at the same time highly compact design so that incorporation in both sterile and CIP/SIP circuits is straightforward and, above all, without contamination.

#### STERILE BOTTLE SAMPLING

- For all currently available lab bottles
- Connection thread GL45 ISO
- For 100 ml to 2000 ml samples
- No air contamination
- Autoclavable
- Fully aseptic system

#### DRAIN PROCESS

1. The product flows through the pipeline. The BioCheck sampling valve **(3)** and CIP/SIP valve **(1)** are closed.
2. After the bottle has been sterilised in the autoclave, connect the bottle to the sampling outlet. Both valves on the bottle (valve **(5)** and valve **(6)**) are closed.
3. Open the CIP/SIP valve **(1)** and the gate valve **(5)** for cleaning. The steam cleans the entire system but not the bottle. This was cleaned beforehand in the autoclave
4. Close the CIP/SIP valve **(1)** and the gate valve **(5)**.



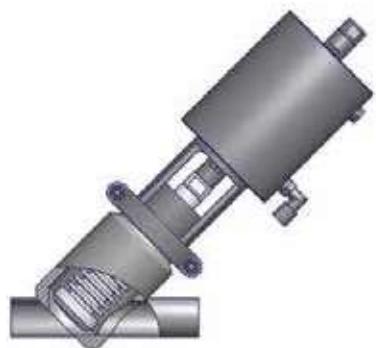
5. Open the BioCheck sampling valve **(3)** and the valve for sampling in the bottle **(6)**. The product flows into the bottle.
6. First close the BioCheck sampling valve **(3)**.
7. After the outlet for sampling has been drained **(4)** close the valve for bottle sampling **(6)** on the bottle. The entire system is sealed.
8. Remove the bottle for sampling from the system.

## ASEPTIC SAMPLING VALVES

... full flow with minimal intrusion

#### FEATURES

- valve body from solid bar
- product hermetically sealed against the environment
- full product and CIP drainage
- change of seals without special tools
- modular system: simple change between hygienic and aseptic version
- with manual or pneumatic actuator
- minimal pressure loss



# ASEPTIC SAMPLING VALVES

... Safety for your product

Process inspections have become an indispensable part of sterile process engineering.

With the BioCheck sampling valve, samples can be taken from sealed systems like tanks and pipelines simply and safely.

For the design of this sterile valve, special attention was paid to an aseptic yet at the same time highly compact design so that incorporation into both sterile production processes and CIP/SIP circuits is straightforward and, above all, without contamination.



Two operating methods are combined in one valve – pneumatic activation and manual activation with a lever. This enables a new level of flexibility for sampling – depending on the demands of the process.

The modular system offers simple changeover between pneumatic and manual actuators.



Pipeline



Clamp



Tank



BioConnect



PTFE bellows



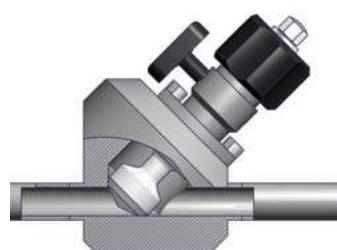
PTFE bellows with stainless steel cap



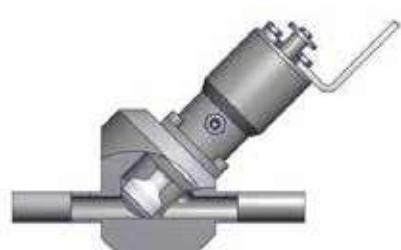
PTFE bellows with PEEK cap

## BIOCHECK INCLINED-SEAT VALVES

Similar to the BioCheck Sampling valve, the BioCheck Inclined-seat valve offers reliable product safety in size DN 10 DIN (1/2").



with hand wheel



with pneumatic actuator