GEA Aseptomag VESTA® sampling system

Aseptic, modular, reliable

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The aseptic VESTA® sampling system is based on a modular design concept, making sampling at different locations in the process line possible with outstanding simplicity. Thanks to system's compact design and freely selectable degree of automation it can adapt with ease to any customer process requirements.

This is how simple and safe repeatable aseptic sampling can be

- Mount sample valve via a VARINLINE® housing into the product line
- Autoclave and dock glass bottle including inlet valve
- Sterilize system
- Take sample

Advantages in the process

The sampling system can be used in horizontal as well as in vertical product lines with exactly the same components. The arrangement and the support frame made of stainless steel will be ideally adapted.

Operation and process safety can additionally be optimized with optional expansions:

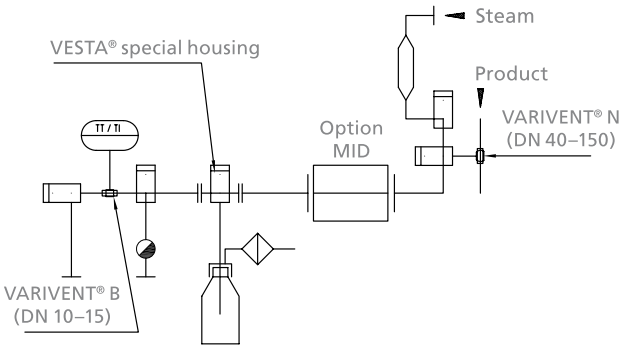
- Bottle monitoring via proximity switches
- Freely selectable degree of automation thanks to VESTA® valve technology
- IZMAG™ flow meter
- Condensate collector and temperature probe for safe sterilization cycles

When the sampling system is transferred to another location, the VARINLINE® housing used for installation is safely closed with blind flanges.

The process steps in detail

1. SIP bottle connection
The pre-autoclaved glass bottle and inlet valve are docked onto the system. Steam is supplied, flows through the closed inlet valve and is drained over the steam trap.

2. Sample taking
Both outlet and the steam inlet valves are set into closed position. In a second step, sample and bottle inlet valve are opened to start the sample taking.



3. Flushing
After sample taking, the product line is flushed with sterile water (condensate). Remaining product and sterile water is drained through the regular outlet valve.

4. Steam/condensate barrier
A continuously applied steam barrier enables optimum process safety at all times. Alternatively, a condensate barrier can be applied instead of an active steam barrier.

Metering with new precision: the flow meter IZMAG™

To perfect the sampling process, the electromagnetic flow meter IZMAG™ fulfills metrological requirements at the highest level. It owes the reliability of its measured values to continuous internal calibration. The display can be rotated through 360°, it is illuminated and complies with highest ergonomic requirements. The standard model with its functional design made of stainless steel is bluetooth enabled so it can be expanded using HART or Profibus.

The optimum basis: VESTA® sterile valve technology

As the centerpiece of the VESTA® sampling system, the sampling valve offers all options and advantages in the VESTA® sterile valve portfolio by GEA Aseptomag.

VESTA® sterile valve technology is specifically designed for small flow rates and provides solutions for sterile operational environments from laboratory to complex process installations.

Valve characteristics

- Pocket-free design, without domes and sumps
- PTFE bellows as shut-off element for universal applications
- A patented bellows sealing system hermetically, safely and permanently seals off the valve against the atmosphere
- Reliable CIP/SIP cleaning thanks to optimized flow characteristics
- Hygienic outer design, meets EHEDG/cGMP standards
- Easy and safe maintenance

We live our values.

Excellence • Passion • Integrity • Responsibility • GEA-versity

GEA Group is a global engineering company with multi-billion euro sales and operations in more than 50 countries. Founded in 1881, the company is one of the largest providers of innovative equipment and process technology. GEA Group is listed in the STOXX® Europe 600 Index.

GEA Mechanical Equipment

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