

## Liquids to Value



# **VESTA®** Sampling Valves

Made by GEA Tuchenhagen

Register



## **VESTA®** Sampling Valves

The VESTA® sampling valve is used for aseptic product sampling from pipes or tanks. The VESTA® sampling valve prevents product contamination, thus keeping the process system free from germs.



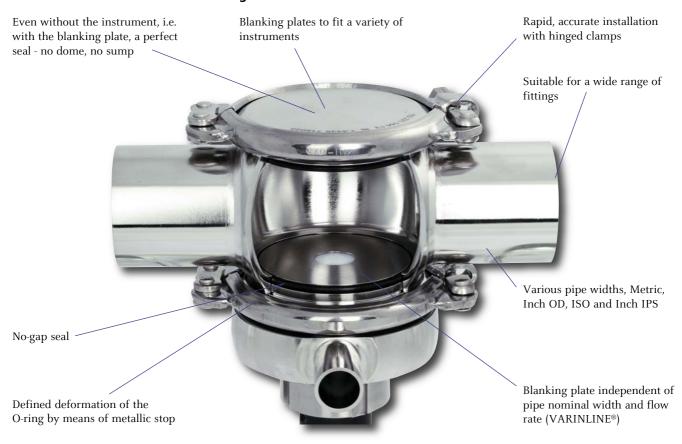
#### **VESTA®** and **VARIVENT®** - a strong team

In combination with our VARIVENT® and VARINLINE® series the requirement of full CIP/SIP compatibility is easily met.

As installation fitting for the VESTA® sampling valve the VARIVENT® and VARINLINE® access units are available.

- · Pocket-free design, without domes and sumps
- · Valve body drains completely, even in straight pipes
- PTFE bellows as shut-off element for universal applications
- Hermetic sealing of the valve interior against the external atmosphere using a patented bellows sealing system
- Reliable CIP/SIP cleaning thanks to optimised flow characteristics
- VARIVENT® / VARINLINE® interface
- · Easy and safe maintenance

#### The VARIVENT® / VARINLINE® housing



#### Nominal width range

The VESTA® sampling valve is available in three different pipe classes and in two sizes in each class.

DIN - pipe standard DIN 11866, series A

DN 10 and DN 15

OD - pipe standard ASME BPE, series C

0.5" OD and 0.75" OD

ISO - pipe standard DIN EN ISO 1127, series B

ISO 13.5 and ISO 17.2

#### Adaption to VARIVENT® / VARINLINE® access units

Available nominal flange widths:

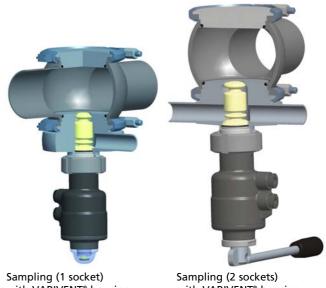
DN 32/25 - size F 50 mm DN 50/40 - size N 68 mm

DN 80/65 - size S 95 mm (VARIVENT® only)

#### **Housing variants**

VESTA® and VARIVENT® housings are available with one socket (type L) or two sockets (type T).

The VARINLINE® access unit is only available with two sockets (type T).



with VARIVENT® housing

with VARIVENT® housing

### The VARINLINE® access unit and its use in matrix-piped systems.

The VARINLINE® access unit is the universal link connecting measuring, inspection, monitoring and sampling equipment with the process system. Consistent use of the VARINLINE® access unit affords the following benefits:

- The VARINLINE® access unit has two different connection fittings. Thus two instruments can be installed.
- The installation of the VARINLINE® access units at critical points in a production line allows instruments or other equipment to be fitted at a later stage without welding.
- Fitted with a glass blanking plate the VARINLINE® access unit can also be used as a sight glass.

#### **Housing connection flanges**

The housing connection flange ensures front-flush, pocket-free installation of a VESTA® sampling valve. The flange is welded to the tank or vessel wall or to the conical or dished bottom.

The housing connection flange type T is suitable for installation in tanks with a wall thickness up to 8 mm.



T flange U flange



VARIVENT® / VARINLINE® housings

## **VESTA®** Sampling Valves

**Applications** For the sampling of all types of liquid and gaseous media from pipes, vessels and tanks

Operating pressure max 6 bar (87 psi)

Control air pressure NC actuator - min. 5 bar (72.5 psi), max. 8 bar (116 psi)

NO actuator - min. 5 bar (72.5 psi), max. 6 bar (87 psi)

Operating temperature  $-10 \,^{\circ}\text{C} \, (+14^{\circ} \, \text{F}) \text{ to max } 135 \,^{\circ}\text{C} \, (\text{max. } 275^{\circ} \, \text{F})$ 

Sterilisation temperature max 150 °C (302° F)

**Installation orientation** Preferably actuator upside down or at the deepest point of a tank

Materials

In contact with product body 1.4435 / AISI 316L

PTFE-bellows TFM 1705, FDA-conformity

Non contact with product synthetic actuator polyphenylene sulphide (PPS)

stainless steel actuator 1.4301 / AISI 304

**Surfaces** 

Internal Ra  $\leq$  0.8  $\mu$ m / R<sub>z</sub>  $\leq$  32  $\mu$ in (standard)

 $Ra \le 0.4 \mu m / R_z \le 16 \mu in (as option)$ 

External bright metal (body and stainless steel drives)

Synthetic actuator - surface structure in accordance with VDI 3400, roughness level 30

Nominal widths process connection VESTA® sampling valve

DIN - DN 10 and DN 15

external diameter in accordance with DIN 11850 series 2 / DIN 11866, series A

ISO - ISO 13.5 and ISO 17.2

external diameter in accordance with DIN EN ISO 1127 / DIN 11866, series B

**OD** - 0.5" OD and 0.75"OD

external diameter in accordance with ASME BPE / DIN 11866, series C

Nominal widths process connection VARIVENT® / VARINLINE® housing

DIN - DN 25 to DN 100, outside diameter acc. to DIN 11850 series 2 / DIN 11866, series A ISO - ISO 33.7 to ISO 60.3, outside diameter acc. to DIN EN ISO 1127 / DIN 11866, series B

OD - 1" OD to 4"OD, outside diameter acc. to ASME BPE / DIN 11866, series C

Actuator variants Manual actuator made of synthetic material

Pneumatic actuator made of synthetic material or stainless steel

**Certifications** Documented verification of the following quality features

- body with material inspection certificate in accordance with EN 10204/3.1 (on request)
- documented verification of the surface roughness in form of a test report

in accordance with EN 10204 (on request to 3.1)

- documented verification of the delta ferrite content in form of a test report

in accordance with EN 10204, optional (on request)

- documented verification for the PTFE bellows in form of a test report in accordance with EN 10204 FDA certificate of conformity— FDA 21 § 177.1550

(on request to 3.1)

- certificate for PTFE bellows (TFM 1705) concerning the documented evidence of biocompatibility in accordance with USP Class VI (on request)



**GEA Mechanical Equipment** 

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