

Liquids to Value



Tanktop System VARITOP

protection and cleaning of process tanks

Made by GEA Tuchenhagen



The Tanktop Safety System VARITOP® . . .

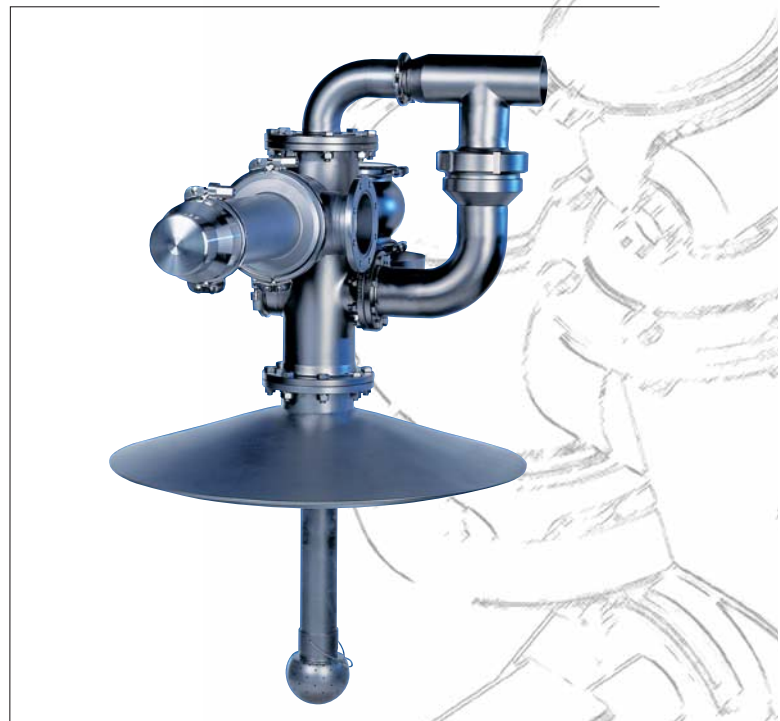
. . . is a compact protection and cleaning system for process tanks and meets the highest hygienic demands. Its modular concept allows for individual applications on the basis of standardized components.

The VARITOP® System ensures:

- Reliable functionality in fully automated processes
- An optimum in plant availability and product quality
- Reproducible cleaning operations



Tank dome cover



Central connection

The basic components of the VARITOP® System

- **Cross connection**
for the integration of fittings
- **Cleaning lance with VARIPURE® cleaner**
- **Spring-loaded safety valves**
- **VARIVENT® vacuum valve**,
high efficiency and sensible response behaviour
- **CIP/Gas change-over systems**
suitable for high and low gas rates and / or gas pressure control
- **Central connection or tank dome cover**

Cross Connection

The cross connection, a central component of the VARITOP® System, is used for the connection of the cleaning device, the safety and the vacuum valve, the equipment for the CIP/Gas management and the pressure transmitter. The cross connection uses standard VARIVENT® flange connections. The vacuum valve is directly welded to the cross connection.



Cleaning systems

Cleaning lance

- Low pressure inside cleaning using a sprayball
- Wide range of spray patterns
- Reliable self-cleaning
- Introduction length 500 - 1,200 mm
- Spray nozzles for cleaning the branch-off pipes for safety / vacuum valve.



Rotating cleaner

- High cleaning efficiency by means of the slowly rotating fan-shaped jet
- Reliable self-cleaning
- Introduction length 1,000 mm
- Multiple nozzle arrangements provide individual spray patterns



Protection systems

Protection against overpressure

- Spring-loaded safety valve, TÜV type tested for fluids and / or steam / gas
- Connections made with VARIVENT® flange connections
- Pipe connections in DIN 11850, if required
- Special approvals, e.g. ASME, CRN etc. upon request

Protection against vacuum pressure

- VARIVENT® vacuum valve
- Sensible response behaviour (as of 25 mm w.c. vacuum pressure)
- Short reaction times / safe closing function
- Hygienic design
- Non-adhesive coating of the valve seat
- Integrated drip pan

VARITOP® Options

- Feedback of the valve rest position
- Function monitoring of the rotating cleaner
- Pneumatic lifting actuator and heating device for spring loaded safety valve and vacuum valve
- Pressure control via VARINLINE® pressure transmitter
- Level control via VARINLINE® level electrode
- Sight glass fitting

Tanktop Safety System VARITOP®

CIP / Gas - Management



Automatic CIP / Gas change-over



Pneumatic CIP / Gas change-over using a combination of butterfly valves



Pneumatic CIP / Gas change-over using a ECOVENT® shuttle valve



Gas pressure control using a VARIVENT® modulating control valve



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