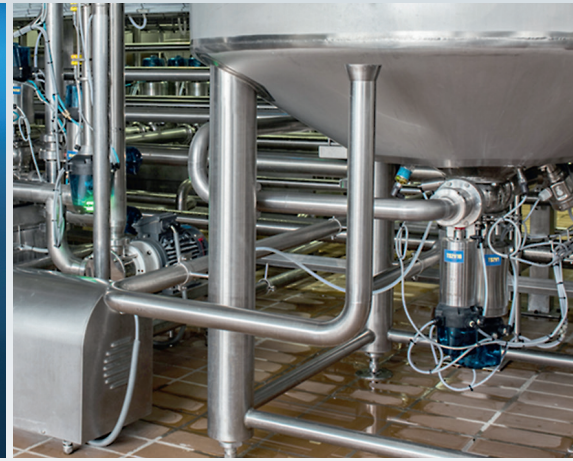
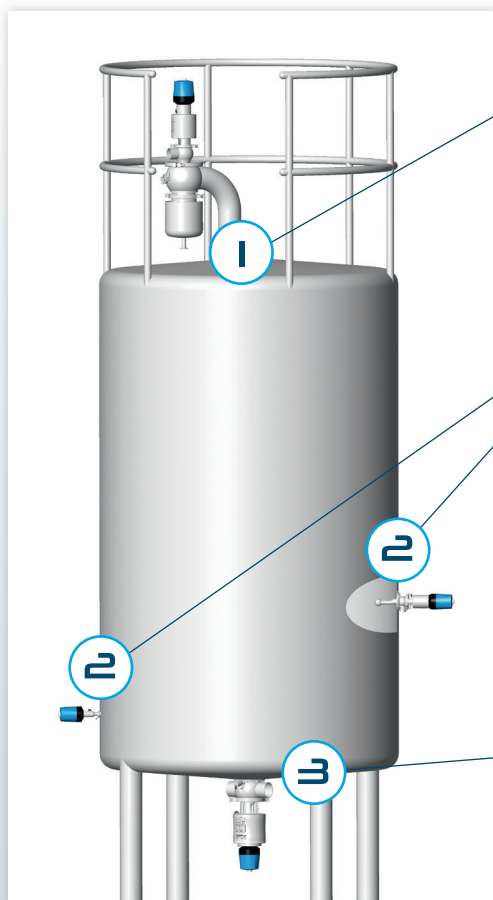


TANK EQUIPMENT



DEFINOX designs various tank equipment solutions to handle the specific features of your processes.

EXAMPLE OF INSTALLATION OF THE EQUIPMENT



TOP OF TANK

SECUREMENT

- Tank top module
- Safety air vent
- Vacuum pressure relief valve

SIDE OF TANK

SAMPLING

- Sampling valve

CLEANING

- Flush shut-off or diaphragm valve

TRANSFER

- Special flush butterfly valve for powder and viscous products application

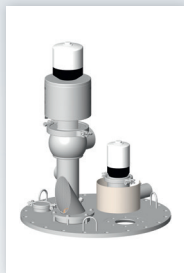
TANK BOTTOM

TRANSFER

- Tank bottom valve
- Tank bottom valve for powder application

1 TOP OF TANK

SECUREMENT OF THE TANK; PROTECTION DURING PRESSURE AND VACUUM RELIEF STAGES



Tank top module

- DN400 to DN900 flange, incorporating safety and cleaning devices.



Safety air vent AVX1

Hygienic - cleanable

- All options
- DN76 to DN350
- Pressure : 0.1 to < 0.5 bar
- Vacuum: starting at 0.5 mbar.

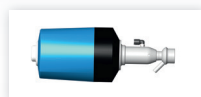


Vacuum pressure relief valve

- 2" - 2 1/2" - 4"
- Pressure: 0.2 to 2 bar
- Vacuum: 30 mbar
- PTFE plug with silicon seal to prevent jamming.

2 SIDE OF TANK

SECURE SAMPLING



Sampling valve

- Manual or automatic
- Flame sterilisation (1 line)
- Sterilisation by injection (2 lines)
- All types of connection possible.

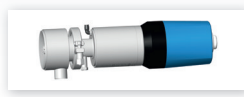


Sampling diaphragm valve

Aseptic with physical barrier

- PTFE diaphragm
- Manual or automatic
- Cleanable and sterilisable.

SIMPLE, EFFICIENT CLEANING*



Flush aseptic diaphragm shut-off valve

Safe cleaning

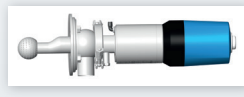
- PTFE diaphragm - Floating PFA seal
- Leak indicator
- Fitted with a perforated cleaning nozzle.



Flush fitting aseptic diaphragm valve

Safe cleaning, easy maintenance

- PTFE diaphragm
- Fitted with a perforated cleaning nozzle.



Flush fitting shut-off valve

Closest possible cleaning of equipment inside the tank

- PTFE diaphragm - PFA plug seal
- Fitted with a cleaning ball.

* Simulation of cleaning angle, on request.

POWDER TRANSFER



Flush butterfly valve

**Retention areas minimised
Powder flow facilitated**

- Manual or automatic
- Fitted with a wedge-shaped flange suitable for powder and viscous products applications.

3 TANK BOTTOM

TRANSFER: DRAW-OFF AND FILLING OF TANKS WHILE KEEPING THE TANK ISOLATED FROM THE PROCESS*



Tank bottom simple sealing shut-off valve

- Flush rising or lowering plug
- Long stroke or with complete clearance of plug for viscous, charged or fragile products.



Tank bottom shut-off valve double sealing

Secure physical barrier between the tank and the process

- Fitted with a floating PFA seal, ensuring excellent cleaning of the valve
- Flush lowering plug for viscous products.



Tank bottom simple sealing shut-off valve for powder application

Specifically suited to powder application

- Plug completely clears the valve orifice to facilitate powder flow.

* Optionally, a flange and counter-flange set can be provided to facilitate installation of the flange on the tank.