



SCANDI BREW® Combined safety valve (Overpressure/Vacuum)

Tank top systems

Application

To minimise risk of tank damage due to implosion and overpressure. Applicable as an option to dead weight or spring regulated safety valves. Please see separate PD leaflets.

Construction

The combined safety valve comprises a vacuum valve housing with an overpressure safety valve on top. The valve is available with the overpressure design in the following versions:

- Bursting disc
- Spring loaded overpressure valve or remote controlled Pressure Exhaust (PE) valve
- Dead weight pressure relief valve

Please see separate PD leaflets.

Available sizes:

Tank top connection	Vacuum valve	Bursting disc	Spring loaded valve or PE	Pressure relief valve
3" / DN80	70 mm	50 or 80 mm	1½" or 2"	2" or 3"
4" / DN100	100 mm	80 or 100 mm	1½", 2" or 3"	2", 3" or 4"
6" / DN150	150 mm	80 or 100 mm	1½", 2" or 3"	2", 3", 4" or 6"
8" / DN200	200 mm	80 or 100 mm	1½", 2" or 3"	2", 3", 4" or 6"

Size and choice of valve type should be made based on the tank design data and process requirements.

Materials:

All metallic parts: Stainless steel AISI 304
(or acc. to customer specifications)

Valve bodies: PP

Valve gasket: NBR. Non-toxic foodgrade materials.

Bursting discs: Graphite

The vacuum valve housing is supplied with a built-in CIP nozzle that ensures complete cleaning inside the housing.
CIP connection: 1/4" BSP socket.

Operation

The anti vacuum valve operates as standard at 50-75 mm W.G. depending on valve size.

The pressure relief valve/bursting disc ensures pressure exhaust if pressure in the tank exceeds the preset opening value.



Benefits

- Design ensures operational reliability
- Low vacuum set points
- Fully cleanable with CIP system
- Compact design and easy mounting

Cleaning

The vacuum valve housing can be cleaned during tank CIP cycle by connecting CIP nozzle to main CIP supply.

When the tank is cleaned pressureless a small volume of cleaning fluid will pass the vacuum valve body and clean the seat. To ensure thorough flushing of valve seat, force opening of the valve is necessary - this is also done when the tank is pressureless.

The use of a drain collector is recommended to prevent detergent from running over tank top.

Mounting

The unit is as standard delivered with a 90° bend ending in a liner and nut. The valve house should be placed in an upright position.

Maintenance

Requires routine check of function. Replacement of valve

joints is recommended every 2-3 year depending on CIP procedure.

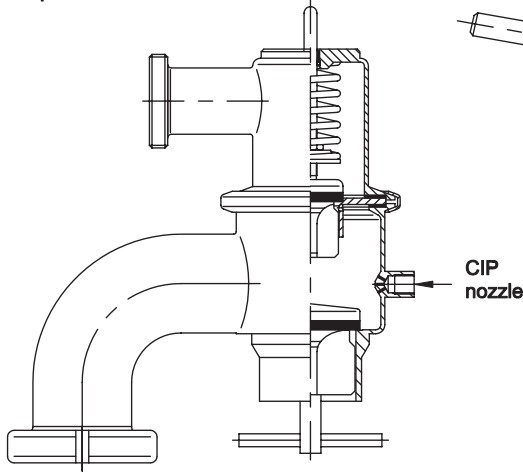
Special Versions

The vacuum valve housing is available with a flanged tank connection and can also be supplied with horizontal mounting pipe end. If only anti vacuum safety is required the upper valve part can be blanked off.

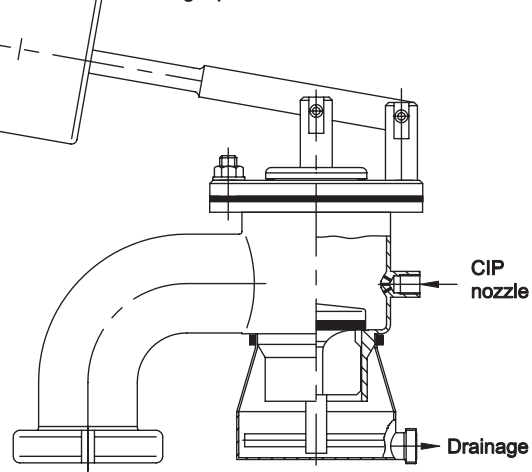
Extra Equipment

- For bursting disc: Protecting cover
- For spring loaded overpressure valve: Adjustable spring, proximity switch and force opener.
- For PE valve: CIP bypass
- For vacuum valve: Drain collector, proximity switch, force opener and stainless steel CIP pipe for CIP nozzle.
- Heating elements.

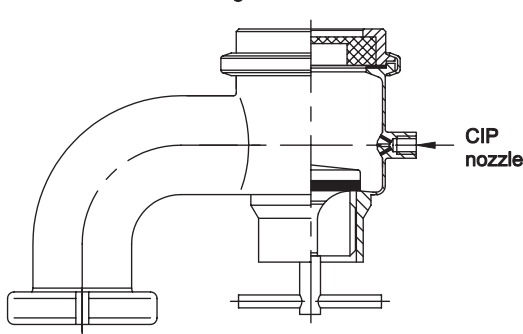
Vacuum Valve with Spring loaded Overpressure Valve or PE Valve



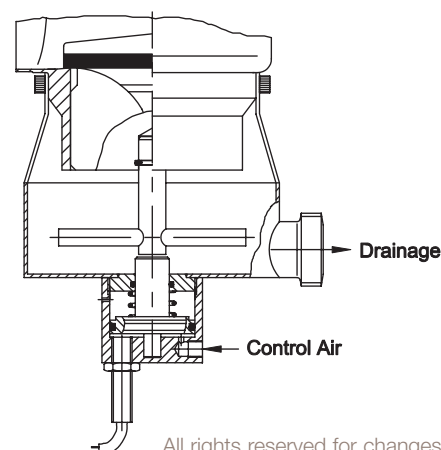
Vacuum Valve with dead weight pressure relief Valve



Vacuum Valve with bursting disc



Vacuum Valve with Force opener, Proximity switch and Drain collector.



PFT00160EN 0502

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