



Alfa Laval Multiple Unit

Tank top systems

Application

Alfa Laval Multiple Unit is a compact unit for safety protection and cleaning of smaller pressure vessels like e.g. small scale fermenting vessels and bright beer vessels.

Benefits

The Multiple Unit offers the following benefits:

- Cost-competitive design
- Perfect self-cleaning during CIP of vessel
- Compact and simple design
- Reliable function
- Easy to install and maintain

Standard design

The standard design of the Multiple Unit includes an anti vacuum valve, spring-loaded pressure relief valve, a CIP supply and cleaning device, and a self-cleaning CO₂ valve. The standard design covers tanks up to 2,000 hl gross, cold cleaned.

Anti vacuum valve

The anti vacuum valve protects tanks from vacuum created mainly during emptying and cleaning at ambient temperature. Standard size is 100 mm.

Pressure relief valve

The pressure relief valve protects the tank from over-pressure and if required from overfilling. Standard sizes are 40, 50 and 65 mm.

CIP supply and cleaning head

The Multiple Unit includes the CIP supply pipe and if required a cleaning device as well - as standard a spray ball. Any type of cleaning head like a fixed spray ball, Toftejorg rotary spray ball or Toftejorg rotary jet head can be mounted on the Multiple Unit.

Additional internal CIP nozzles ensure perfect self-cleaning of all internal parts of the Multiple Unit.



Self-cleaning CO₂ valve

A combined gas exhaust/supply valve is situated between the CIP pipe and the connection for gas supply/exhaust. The valve is normally open for gas flow out of the tank during filling and fermentation, and open for gas inlet during pressurising and emptying. During CIP, the liquid will close the valve but a special drilling of the valve body ensures cleaning of the seat and the adjacent pipe connection because a small amount flows through. The main CIP flow will run directly to the cleaning head.

The self-cleaning CO₂ valve is located outside of the Multiple Unit. This allows for a proper action of the cleaning head for the self-cleaning of the anti vacuum valve and all parts inside of the Multiple Unit. Standard size is 2".

Standard range

The following range is available as standard products:

	PRV 40 mm	PRV 50 mm	PRV 65 mm
AVV 100 mm	MU 100/40	MU 100/50	MU 100/65

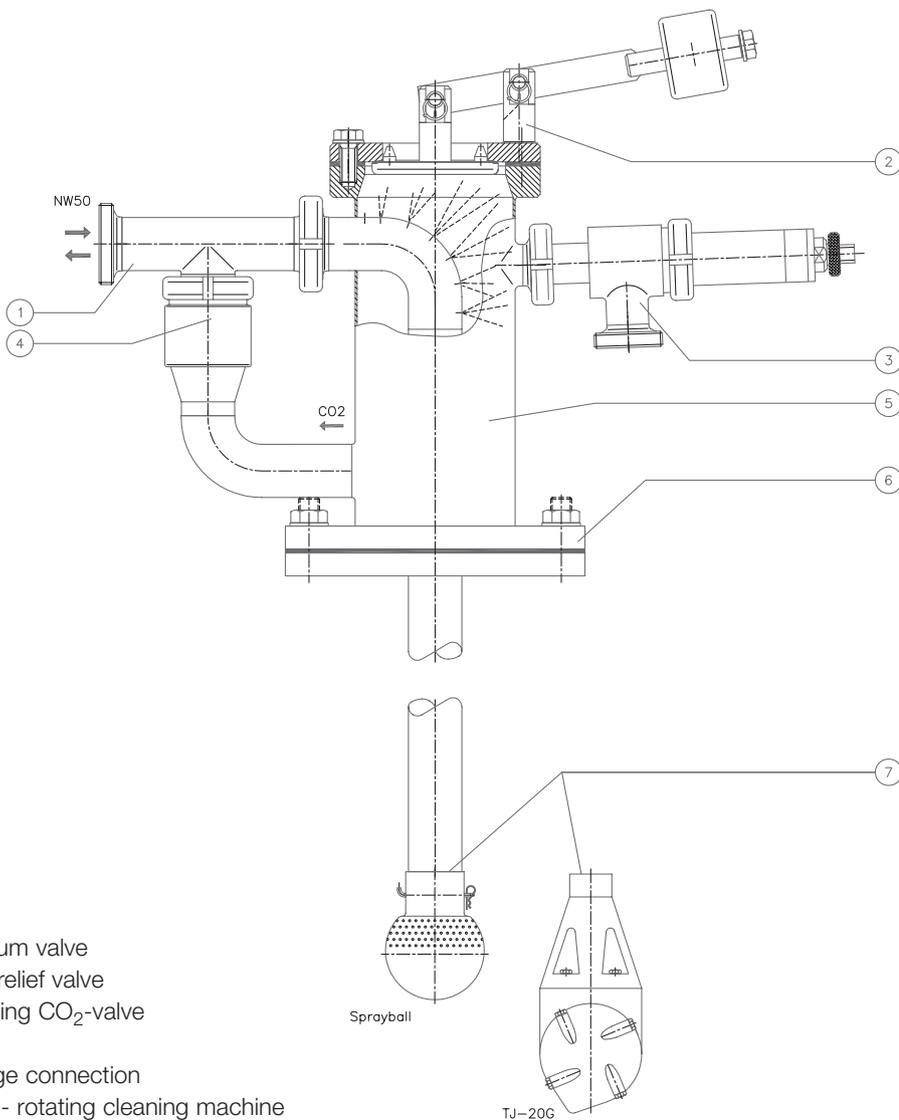
Option

- Trace heating element

Materials

Product wetted-parts in stainless steel 1.4303 (AISI 304)
 Seals in EPDM (FDA approved)
 Components: See separate product-leaflets

PED approval on request.



- Pos.1 : CIP inlet
- Pos.2 : Anti-vacuum valve
- Pos.3 : Pressure relief valve
- Pos.4 : Self-cleaning CO₂-valve
- Pos.5 : Housing
- Pos.6 : Tank flange connection
- Pos.7 : Sprayball - rotating cleaning machine

How to contact Alfa Laval

Up-to-date Alfa Laval contact details for all countries are always available on our website at www.alfalaval.com