

# Alfa Laval SCANDI BREW® Tank safety unit

## Compact all-in-one protection and cleaning for brewing tanks

### Introduction

The Alfa Laval SCANDI BREW® Tank safety unit is a particularly compact unit designed for safety protection and cleaning of pressure vessels such as fermenting, bright beer, DAW and buffer tanks.

### Benefits

- All-in-one tank protection and cleaning
- Self-cleaning during CIP
- Compact, uncomplicated design
- Simple installation
- Single connection to the tank

### Design

The Alfa Laval SCANDI BREW® Tank safety unit includes an anti-vacuum valve, a spring-loaded pressure relief valve, a CIP supply and cleaning device, and a self-cleaning CO<sub>2</sub> valve. This means that tank protection, cleaning and gas exhaust/supply can all be achieved via one single tank fitting.

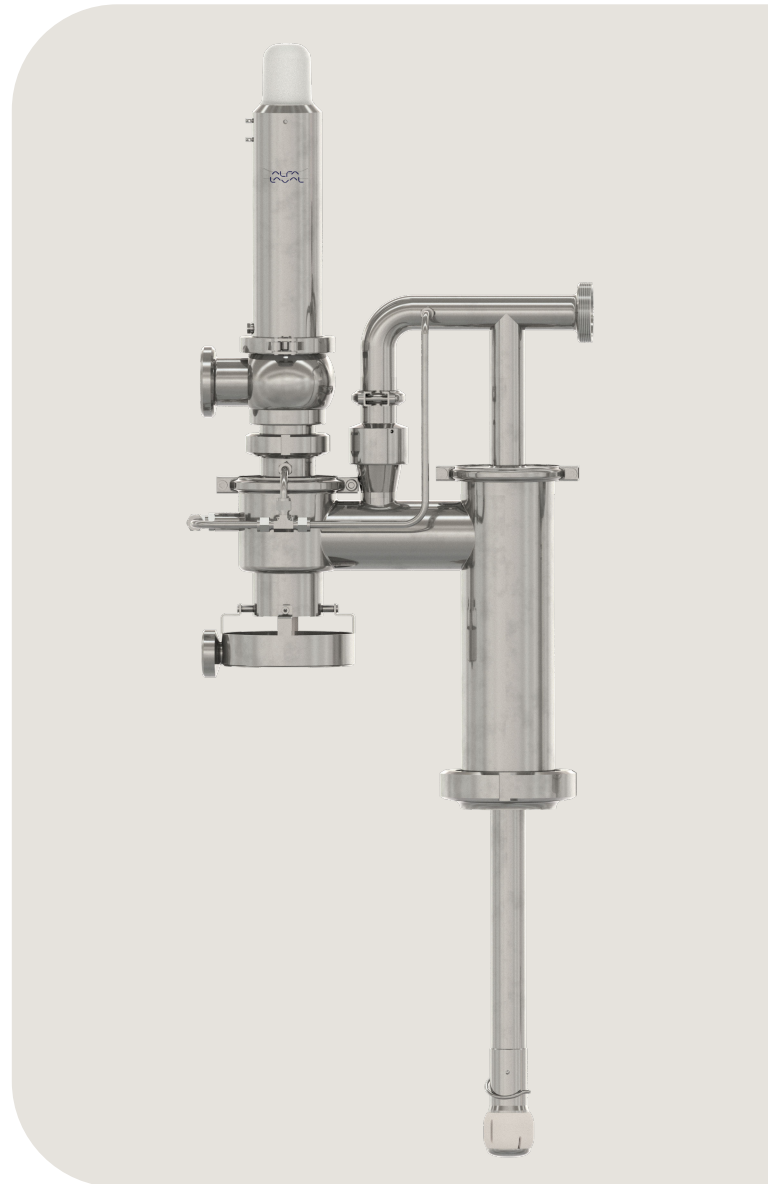
**Pressure relief valve:** The pressure relief valve protects the tank from over-pressure and overfilling. Standard sizes are DN25, DN40 and DN50. The sizing of pressure relief valve depends on tank design pressure and tank filling speed.

**Anti-vacuum valve:** The anti-vacuum valve protects tanks from any vacuum created during emptying and cleaning at ambient temperature. These units are available with either a 2-inch or 3-inch vacuum valve. Correct sizing of the vacuum valve is determined by the tank vacuum rating and process requirements.

**Tank cleaning:** The unit includes a tank cleaning device, in the form of either a basic static spray ball or the Toftejorg SaniMidget/Magnum SB Rotary Spray Head, designed for optimal cleaning using less water and chemicals compared to traditional static spray balls.

The unique design is totally free of welds, threads and screws. Additional internal CIP nozzles ensure full self-cleaning of all internal parts of the unit. The cleaning device is lubricated by the cleaning media. No oil, grease or other lubricants are used.

**Self-cleaning CO<sub>2</sub> valve :** A combined gas escape/supply valve is included as standard. This permits easy gas flow, allowing venting as well as pressurizing of the vessel through



the valve. It is partly closed for CIP liquid to be cleanable and selfdraining.

## Options

- Pneumatic force opener for vacuum valve
- Pneumatic force opener for pressure relief valve
- Drain collector for vacuum valve
- Open/close indicator for pressure relief valve and/or vacuum housing.

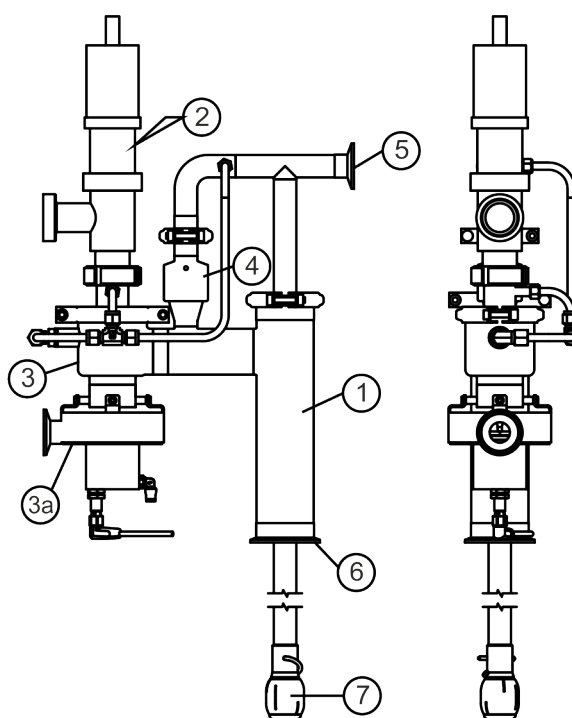
## Technical data

### Materials

Product wetted steel parts	AISI 316L
Product wetted polymers	FDA approved

Standard range	2-inch Tank safety unit	3-inch Tank safety unit
Maximum tank design pressure	3.9 bar/56 psi [1 bar/15 psi (USA)]	3.9 bar/56 psi [1 bar/15 psi (USA)]
Minimum tank vacuum rating (cold CIP)	100mm H <sub>2</sub> O/3.94 in WC	100mm H <sub>2</sub> O/3.94 in WC
Minimum tank vacuum rating (hot CIP)	200mm H <sub>2</sub> O/7.87 in WC	200mm H <sub>2</sub> O/7.87 in WC
Tank size (cold CIP, max. 25°C / 77°F)	200 hl/167 bbl	500 hl/420 bbl
Tank size (hot CIP, max. 80°C / 176°F)	not applicable	50 hl/42 bbl
Tank cleaning device	SaniMidget SB Rotary Spray Head	SaniMagnum SB Rotary Spray Head or Static Spray Ball
Vacuum valve	2-inch	3-inch
Pressure relief valve	DN25	DN25, DN40 or DN50
Self-cleaning CIP/CO <sub>2</sub> valve	1-inch	1½-inch
Connection to tank	DIN 11851 Hygienic Union or ISO 2852 sanitary clamp ferrule	
Connection to CIP/CO <sub>2</sub> supply	DIN 11851 Hygienic Union or ISO 2852 sanitary clamp ferrule	

1. Tank safety unit
2. Pressure relief valve
3. Vacuum valve / 3a. Optional accessory for vacuum housing
4. Self-cleaning CO<sub>2</sub> valve
5. CIP/CO<sub>2</sub> connection
6. Tank connection
7. Tank cleaning device



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