



Breweries

LESER Safety Valves protect all processes in the brewery from unallowable overpressure.

LESER Clean Service Safety Valves are specially designed to meet the requirements of fermentation, storage, filtration, and filling processes. They are characterized by: cleanability, process integration, and conformity. Due to their hygienic design, Clean Service Safety Valves are easy to clean. Contamination in the process is avoided. The Clean Service Safety Valves can be integrated into CIP/SIP processes, e.g. with the pneumatic lifting device. This enables reliable and efficient production.



LESER Safety Valves comply with the following industry-specific guidelines:

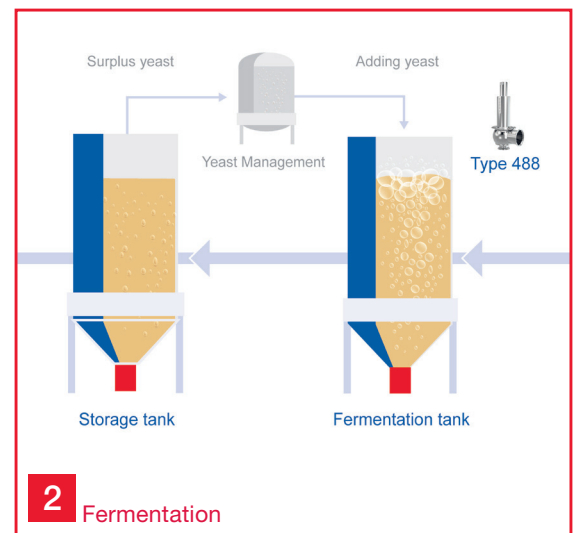
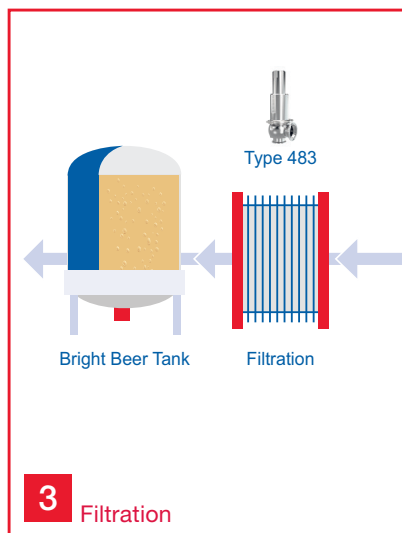
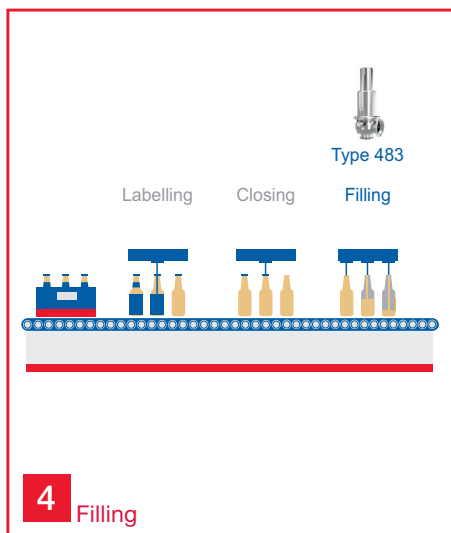
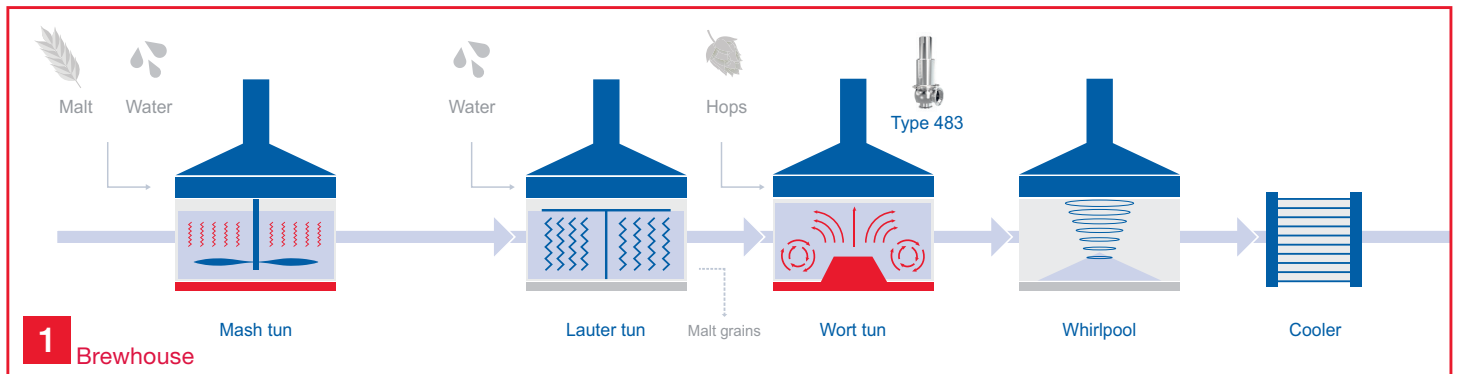
- **FDA 21 CFR 177.2600**
Code for elastomers in repeated-use food contact applications.
- **Regulation (EC) No 1935/2004**
for materials intended to come into contact with food.
- **Regulation (EC) No 2023/2006**
Good manufacturing practice for food-contact materials.
- **Resolution CM/Res (2020)9**
Safety and quality of materials and articles intended to come into contact with food.
- **Chinese Standards for food-contact materials:**
 - **GB 4806.1-2016** - General safety requirements.
 - **GB 4806.11-2023** - Rubber materials.
 - **GB 9685-2016** - Positive list for additives.
 - **GB 4806.9-2023** - Requirements for metallic materials.



PRIMARY AND CLEANING PROCESSES

LESER Safety Valves throughout the entire process line

The diagram shows the primary processes of beer production and highlights the points of use for LESER Clean Service Safety Valves. These also prevent excessive pressure during the Cleaning-in-Place (CIP) process, as well as during Sterilization-in-Place (SIP) after extended downtimes.



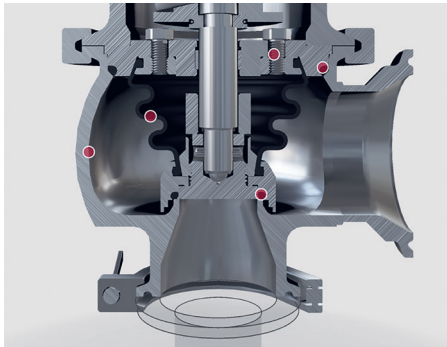
Clean Service

Type 481	Type 483	Type 488
Small capacity for safeguarding secondary processes in hygienic applications	Safety valve for hygienic applications with standardized aseptic connections	Safety valve for the protection of high capacities in hygienic applications
DN 15 - DN 25 NPS 3/4 - NPS 1	DN 25 - DN 40 NPS 1 - 2 NPS	DN 25 - 100 NPS 1 - NPS 4 1/2
0.1 - 68 bar 1.5 - 986 psig	0.1 - 16 bar 1.5 - 232 psig	0.1 - 16 bar 1.5 - 232 psig

BENEFITS

Product features of the Clean Service product group

Hygienic design enables effective cleaning

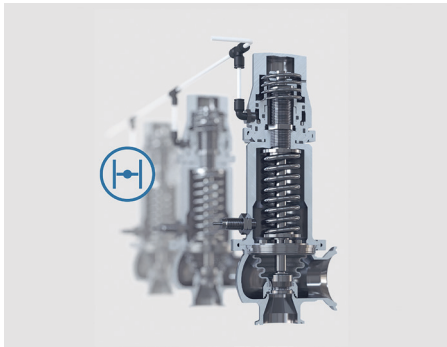


The LESER HyTight design features

- a low dead space at the inlet,
- a self-draining body,
- a manual or pneumatic lifting device,
- a gap-free installation of the seals and
- an optimized surface quality for the requirements.

This enables easy removal of residues while the safety valve is installed.

Reliable production through process integration



The pneumatic lift enables the safety valve to be opened automatically by the process control system, e.g. during the cleaning process. With the help of the lift indicator, it is possible to monitor whether the safety valve has opened.

Thanks to the wide range of connection options, such as clamps, flanges, or milk pipe screw connections, the safety valve can be installed at any point in the system, whether in storage tanks or filters. This ensures a simple supply of spare parts.

Product safety through conformity



Only components that comply with standards and guidelines such as FDA or EU Directive 1935/2004 are used in LESER Clean Service Safety Valves.

LESER Delivery Time Promise

The delivery time for all top runners in the LESER Clean Service product group is two weeks from the Hohenwestedt factory. Only a few connection combinations have longer delivery times.

Top Runner	Type 481, 483, 488	2 Weeks
	Type 484 and Type 5034 vessel connection.	
	Type 485 and Type 5034 pipework connection.	
Any combination of other inlet and outlet connections	Type 481, 483, 488	6 Weeks
	Type 484 and Type 5034 vessel connection.	
	Type 485 and Type 5034 pipework connection.	

Further details on the LESER Delivery Time Promise can be found online under “Delivery Time Promise”. To access this, scan the QR code at the end of the document.

SECONDARY PROCESSES

Protected by LESER Safety Valves



- Steam supply



- Water treatment
- CO₂ treatment
- Air supply



- Water treatment
- CO₂ treatment

High Performance

Type 441/442 DIN
Full-lift safety valve with rolled in seat, DIN flange connections
DN 20 - DN 400 NPS 3/4 - NPS 16
0.1 - 40 bar 1.5 - 232 psig

Compact Performance

Type 437, 438, 439	Type 459
Safety valve for securing small capacities	Safety valve for medium capacities
G 3/8 - 1 NPT 1/2 - NPT 1	NPT 1/2 - NPT 2 NPS 1/2 - NPS 1
0.1 - 365 bar 1.5 - 5,294 psig	0.2 - 250 bar 2.9 - 3,626 psig



References

Well-known breweries around the world rely on LESER Safety Valves to protect their equipment.

Scan the QR code below for details.



For more information:
www.leser.com/en/industries/breweries/