

# Stout Brewery – Filtration for Keg Washing Line

## Background:

As a key sustainability action, used stout kegs are returned, washed & re-filled at a state of the art facility within the brewing facility. However, effectively and consistently removing contaminants from returned kegs presents various challenges.

Kegs are passed through a pre wash, before undergoing a thorough external & internal wash using high pressure spray nozzles with caustic solution. These nozzles must be kept free from blockages at all times to ensure the kegs are cleaned effectively.



## The Bollfilter Solution

To address this challenge, and remove fine contaminants from the caustic solution, 2 x BOLLFILTER Type 6.18 DN150 units were installed. Each filter is designed to process up to 143 cubic meters of caustic solution per hour with a filtration level of 300 micron. With housing and internals comprised of Stainless Steel, these filters comply with all relevant Food & Beverage standards.

By capturing solids that would otherwise pass through the system and potentially block the spray nozzles, the BOLLFILTER system effectively protects the downstream equipment. This ensures that potentially harmful solids are removed, and kegs are washed efficiently every time.

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## Benefits For the Customer

By incorporating a BOLLFILTER into the keg washing line, the system has a robust defence against particulate contaminants & organic residue present in the cleaning fluids. This continuous filtration directly prevents the high-pressure spray bar nozzles from clogging, which in turn significantly reduces costly unscheduled maintenance and protects other downstream equipment like pumps and valves from abrasive wear.

Most importantly, by ensuring the nozzles maintain their designed spray pattern, the filter guarantees that every keg is cleaned and sanitized effectively and consistently. This eliminates the risk of microbial contamination from improper cleaning, thereby safeguarding the final products quality, flavour, and shelf life, making it a critical asset for both operational efficiency and brand protection.



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## Customer Testimonial

*"The use of BOLLFILTER units has significantly improved our water recovery efforts. The reduction in particulates means improved efficacy of the process upstream of the filters."*

*The results have been impressive and continue to aid the business efforts to reduce waste and water usage. The BOLLFILTERS have proven reliable and easy to operate and would come highly recommended by us."*

Lead Project Engineer