

PROCESS RELIABILITY / TECHNICAL CLEANLINESS De-Oiling of a Parts Cleaning System with the PLF-1C

Technical Application Bulletin

PROJECT BACKGROUND

Customer manufactures
hydraulic accumulators.

DISCOVER

- Components are washed in a parts cleaning system.
- High oil input from various upstream work processes in the washing bath of the system.
- Its current gravitational oil separator does not meet the requirements of the customer.
- Problems with the subsequent welding process due to filmic contamination.

DIAGNOSE

- Increase oil separation in the cleaning fluid of the system.
- Improvement of component cleanliness (especially filmic contamination).
- Extension of the service life of the washing medium.

INDUSTRIES DESIGN Image: Second se

Test Setup (application-related values)



Gravity oil separator: Dimensions mm: (LxWxH) approx. 67"x27"x79" **Schroeder PLF-1C Coalescer:** Dimensions mm (LxWxH) approx. 14"x18"x79" Q_{max} 8.8gpm p_{max} 28 psi Filtration rating 10 μm





- Inline-separation in partial flow reducing plant downtime → no bath-calming necessary
- · Less man-hours for maintenance due to higher machine availability
- Reduction of rejects and minimum of adjustments

CUSTOMER BENEFITS

- Improvement of bath-lifetime
- Lower energy costs
- Less wastewater volume when changing fluids
- Reduced dosing requirements cleaning fluids
- Reduced installation area
- Reduced resource consumption
- Increased circulation

FURTHER APPLICATION AREAS

- Washing after hardening / quenching
- Washing before coating processes
- · Washing after hardening processes
- Washing before gluing processes
- Washing of container boxes
- Washing after honing

PRODUCT SPECS

PLF-1C | Coalescer Separator

- Combination out of coalescer and Gravity oil separation in one compact PLF1 housing
- Continuous bypassmaintenance of the fluid during system operation by removing a partial flow from the filtered process fluid
- Ideal for retrofitting → use of existing system peripherals

For internal use only. In case of questions please contact the PROCESS group.

