

WCB Sanitary Single Seat Valves Help Streamline Personal Care Process

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Waukesha
Cherry-Burrell®

Valve:

Waukesha Cherry-Burrell Brand – [W60 Series Sanitary Valves](#)

Industry:

Personal Care

Problem:

A leading manufacturer of personal care products needed to increase capacity by upgrading production lines from batch to semi-continuous processing within the current footprint of their plant.

**Solution:**

The redesign centered on an inline, multi-feed, high pressure emulsification system that required a sanitary valve rated for pressures up to 500 psi. The Sonolator Emulsification Device manufacturer, Connecticut -based [Sonic Corporation](#), determined that the W60 Series single seat valves were the only sanitary equipment available to meet this requirement and allow the system to perform optimally. This is due to the valve's [machined-from-bar, heavy duty construction](#) and [clean-in-place design](#) which comply with the latest hygienic certifications.

In addition to meeting the high pressure requirements, the W60 Series Valves delivered these important advantages:

- **Optimal sanitation** - CIP in and out; automated drainage of high pressure lines to avoid bacteria growth
- **Operational safety** - mechanical [pressure relief valve](#) provides a fail-safe system in conjunction with the electronic pressure sensors; the air and spring assist actuator shuts down the system when pressures exceed set thresholds
- **Reduced product loss** - use of an in-line semi-continuous approach eliminated a batch tank that was difficult to clean and generated a lot of effluent waste
- **Consistent product quality** - repeatability due to semi-continuous (versus batch) processing with automated valves and [control tops](#) with position sensors and integrated solenoids

Results:

The customer was able to double production capacity without investing in a facility expansion and allowed them to breathe new life into their land locked plant. They also eliminated co-packing expenditures while reducing labor and energy costs – adding significantly to their bottom line.