sera

DOSAGE OF CHEMICALS IN THE BEVERAGE INDUSTRY

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PRECISE CHEMICAL DOSING FOR THE BEVERAGE INDUSTRY

Reliable processes through precise dosing technology

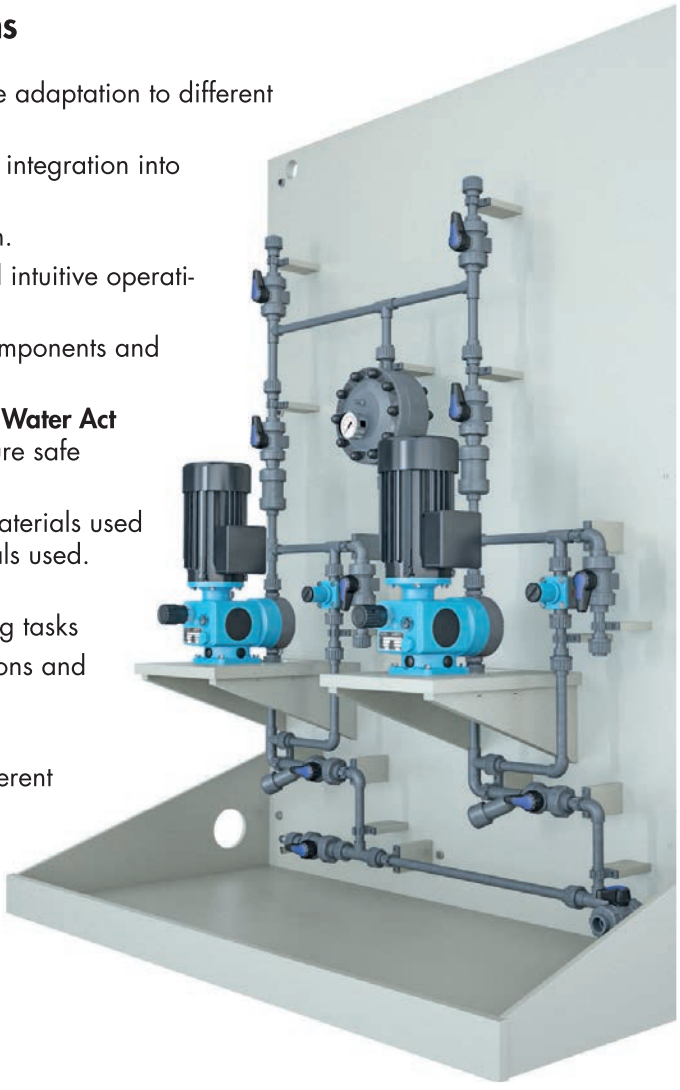
The precise dosing of cleaning agents and disinfectants is crucial for hygienic and high-quality food production. The targeted use of chemicals reduces costs, environmental pollution and ensures maximum process reliability.

Challenges in chemical metering

- In food production, effective plant hygiene is essential to comply with hygiene standards and to produce safe and flawless products.
- Minimal use of chemicals through precise dosing helps to reduce costs and protects the environment.
- The dosing of cleaning and disinfecting agents must be versatile and reliable in order to cover a wide range of processes, including:
  - CIP-processes (Cleaning in Place)
  - Bottle cleaning
  - Barrel cleaning
- The chemicals used must be compatible with the material in order to reliably prevent damage to system components.

The solution from sera - CVD dosing systems

- **Modular design:** Standardised components enable flexible adaptation to different dosing requirements.
- **Space-saving wall mounting:** Compact design for optimal integration into existing production environments.
- **Maximum safety:** Safety devices ensure reliable operation.
- **Plug & play:** Simple installation, quick commissioning and intuitive operation.
- **Individual adaptation:** Choice of different pump types, components and material versions.
- **Compliance with the requirements of the German Federal Water Act (WHG):** The systems meet the legal requirements and ensure safe handling of water-polluting substances.
- **Material selection based on chemical compatibility:** The materials used are selected according to the compatibility of the chemicals used.
  Flexible variants for every application:
  - **CVD1**: Compact single-pump solution for simple metering tasks
  - **CVD2**: Two-pump system for more demanding applications and redundancy.
  - **CVD1s**: Particularly space-saving compact solution.
  - **Suction and pressure-side connections:** flexibility for different containers – from IBCs to the smallest containers.



With the CVD dosing systems from **sera**, you can optimise your process hygiene, reduce operating costs and meet the highest quality requirements in food production.

EFFICIENT DOSING SYSTEMS FROM **sera**

The solution from sera - CTD Dosing Systems

- **Modular design:** standardised components enable flexible adaptation to different dosing requirements.
- **Space-saving design:** compact design with standardised container sizes for optimal integration.
- **Versatile equipment:** various components such as agitators, suction lances and injection valves are used for customised solutions depending on the application. An optional floor mounting by anchoring in the floor also ensures that the system is securely positioned.
- **Plug & Play:** ready-to-connect systems for quick commissioning.
- **Individual configuration:** a combination of three pump series and seven container sizes for maximum flexibility – from small 40-litre containers with a simple magnetic diaphragm pump to 1,000-litre containers with an electrically controlled diaphragm pump, electric agitator and extensive safety package.

With CTD dosing systems from **sera**, you benefit from high process reliability, short delivery times and a customised solution for your application.

The sera solution - IBC emptying station

- **Efficient dosing:** Continuous supply of chemicals without interruption.
- **Optimised occupational safety:** No direct contact with the liquid, safe removal without a suction lance.
- **Complete emptying of residues:** Inclined installation surface ensures emptying of the IBC and avoids residues in the container.
- **Uninterrupted operation:** Defined residual volume in the storage tank enables uninterrupted operation while changing IBCs.
- **Reliable monitoring:** Integrated level indicator and two float switches for precise control and timely alerting for container change.
- **Flexible application for various media:** Precise dosing of chemicals such as caustic soda, acids or disinfectants and continuous supply for safe and reliable processes.

The **sera** IBC Emptying Station ensures a safe, efficient and uninterrupted supply of chemicals for your processes.

EFFICIENT DOSING SYSTEMS FROM **sera**

The sera solution – removal from containers

- **Efficient dosing:** Safe and controlled pumping of liquids directly from storage tanks.
- **Flexible installation:** Thanks to their special design, storage tanks are usually removed from the top due to legal requirements - for example, double-walled tanks or tanks in drip pans. The solution is not only safe, but also particularly space-saving.
- **Optimal media routing:** Suitable for long delivery lines to recipients within the plant.
- **Customised solutions:** Plastic tanks with the desired volume – tailor-made for every application.
- **Well-thought-out design for maximum efficiency:** Siphon vessel on the tank enables reliable extraction from above. An integrated priming aid and a pulsation damper ensure smooth and trouble-free delivery. As an option, the dosage can be precisely monitored by means of a flow meter.
- **Flexible application for various media:** Precise removal of acids, alkalis and disinfectants in the food and beverage industry and safe handling even with demanding media.

With **sera** solutions for removal from containers, you benefit from safe, efficient and individually customisable dosing technology.

Your contact persons

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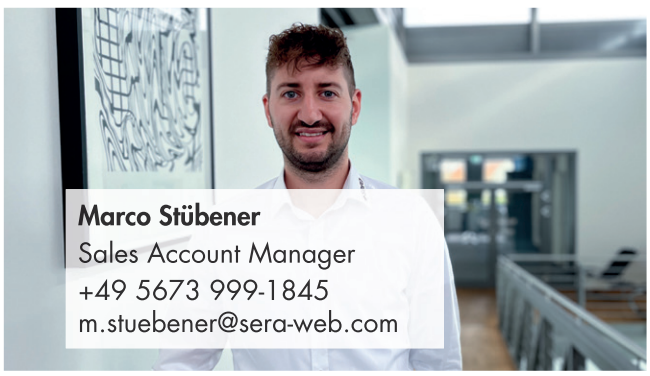

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