



Dosing systems for industrial applications

Aspects in case of dosing liquid media

With the consideration of cleaning circuits, there the following changes basically occur over the passage of time:

> Contamination is concentrated in the cleaning bath.

> The bath concentration changes through entrainment, chemical changes or physical influences.

To guarantee consistent product quality, the changes to the cleaning bath must be reacted to in an appropriate way.

> Contamination must be taken out by dirt-separation systems.

> A cleaning agent must be added manually or automatically.

> Vaporization losses must be extended manually or automatically.

> A bath change must be initiated.

A profile of the system periphery can be derived from these requirements for the trouble-free operation of a degreasing bath.

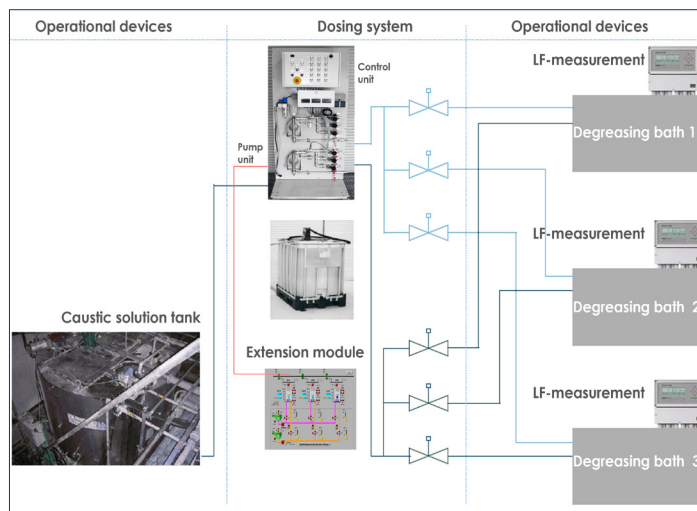
> Sensor technology for the measurement and monitoring of the bath concentration must be used.

> Dosing pumps with high chemical resistance should be used.

> The dosing pumps must be selected so that they correspond to the layout of the quantity to be added.

> Level measurement must be implemented in order to record possible level variations.

> In the process technology, all elements are to be linked with each other logically and made dependent on each other.



The conception and application for the structure of a dosing system could include the following points:

> Application of a dosing system in the modular component system, consisting of caustic solution and cleaning system additive.

> The dependent actuating variable is formed by the conductivity.

> The metered addition should be implemented so that a large over-dosing or under-dosing is avoided and the concentration thus always remains at a constant level.

> Taking into consideration the existing conductivity measurement technology, the base additive and cleaning system additive must be dosed in a proportional ratio.

Dosing systems from ROBOTCHEMIE

ROBOTCHEMIE offers you competent and economical solutions for all aspects and components of the dosing process.

Compact dosing systems for industrial applications

- > Dosing pumps for the dosing of high-viscosity and aggressive media in implementations 50 - 10,000 liter/hour
- > Dosing lances for extraction from containers of up to 1000 liters
- > Interface connection to external process control system
- > Measuring systems (for e.g. conductivity)
- > Data acquisition and visualization components

Dosing systems for consumers

- > Systems for the automatic manufacture of cleaning agents for mix-ratios of 0.5-10%
- > Max-rapid fill: for the filling of cleaning machines
- > Rapid-fill plus: for the filling of buckets at central locations (e.g. placement chambers)
- > Rapid-fill: for the filling of buckets at the respective workplace

As an extension to our dosing technology, we offer service and support tailored to order:

- > Piping/ Hose connection
- > Take-over of maintenance
- > Training sessions
- > Network connection
- > Spare parts service

Generally, we differentiate between three phases during the project progression:

Pre-Sales Phase

1. Operational inventory stocktaking and process data recording
2. Dosing tests
3. Test evaluation and potential estimation
4. Concept for operational application
5. Large-scale system test, including support
6. Assessment and generation of a cost analysis
7. Detail coordination with the customer
8. Quotation

After-sales phase

1. Service provision
2. Remote monitoring of the dosing system and process assessment
3. Wear part guarantee for the most important components

Sales phase

1. Internal order processing after award of contract
2. Delivery
3. Operational startup



Do you have any questions and do you require a product consultation?

Our sales team and our chemistry-technical consultation service are glad to remain available to you.

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