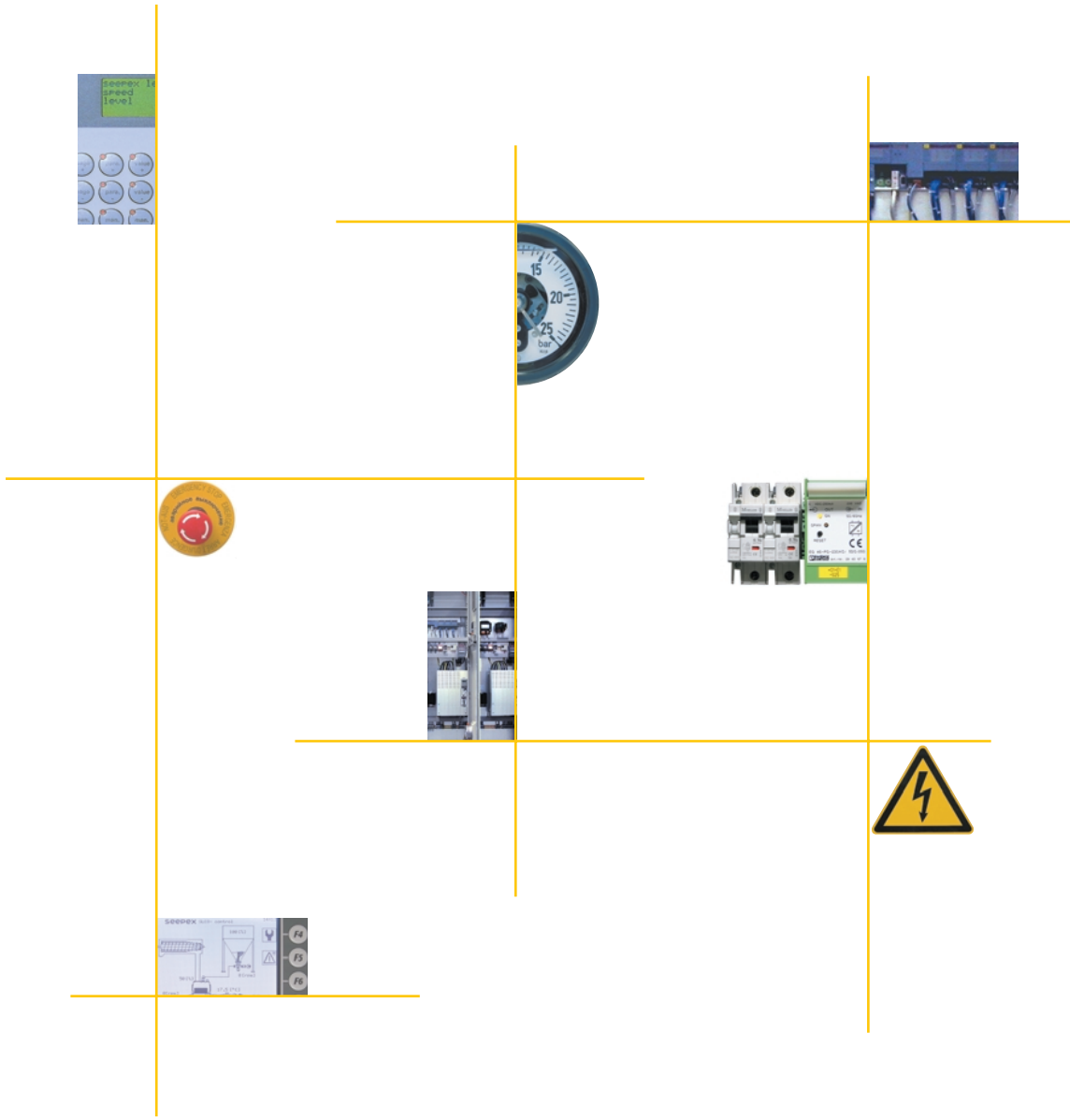


# System solutions



# System solutions

**seepex** control systems are tailored for controlling and monitoring specifically for the particular application. Standardized modules are available for diverse application areas and protection against dry running and overpressure is included.

We supply individual components of a control system as well as complete plants ready for operation. In addition to planning, we offer qualified support in commissioning processes and control systems.



## Customized solutions

Let us convince you of our flexibility and rely on our years of experience for meeting your requirements.

We also work with our customers to develop control systems for their individual needs. Before the control is delivered, we perform a final inspection. If desired, we commission the system on site.

## Your benefits

- ~ The modular structure ensures a cost-efficient hardware compilation.
- ~ The control can simply be connected to an existing control through various bus systems.
- ~ Simple operation due to user friendly display and control devices
- ~ Different operating languages can be selected
- ~ Delivery optionally as separate units with comprehensive documentation or completely assembled in a control cabinet.
- ~ Protective functions such as overpressure protection and dry running protection are already incorporated.

# seepex Control and Regulating Systems

## **seepex dosing control**

seepex dosing controls can be used to solve various dosing issues. The basis is a freely programmable controller with an integrated display and control unit. The modular structure of the control permits a simple and cost-efficient adaptation to the dosing task required by the customer. For simple tasks, the dosing amount, e.g. is specified.

The control calculates the theoretically delivered amount and switches off the pump once this amount has been reached. A comprehensive dosing task may include the delivery of various media in a freely settable ratio. If optimum mixing of these media is additionally required, an open hopper pump of the **seepex BTI** or **BTH** ranges can be used.

## **seepex level control**

The **seepex** level control can be used in differently structured control circuits.

The basis is a programmable logic compact controller with an integrated display and control unit. The product level is measured e.g. through ultrasound or load cell. The level is controlled with a PID control

that changes the pump speed as a function of the level. If the level can no longer be kept constant within the permissible range due to insufficient or excessive product supply or a fault in the PID controlled process, the control will trigger actions that prevent damage inside the plant and shut down the entire process in the case of emergencies.

## **seepex pressure control**

The **seepex** pressure control is used whenever the product rate must be controlled with constant pressure during conveyance.

The basis is a programmable logic controller with an integrated display and control unit. The operating pressure inside the plant is measured through a pressure transmitter.

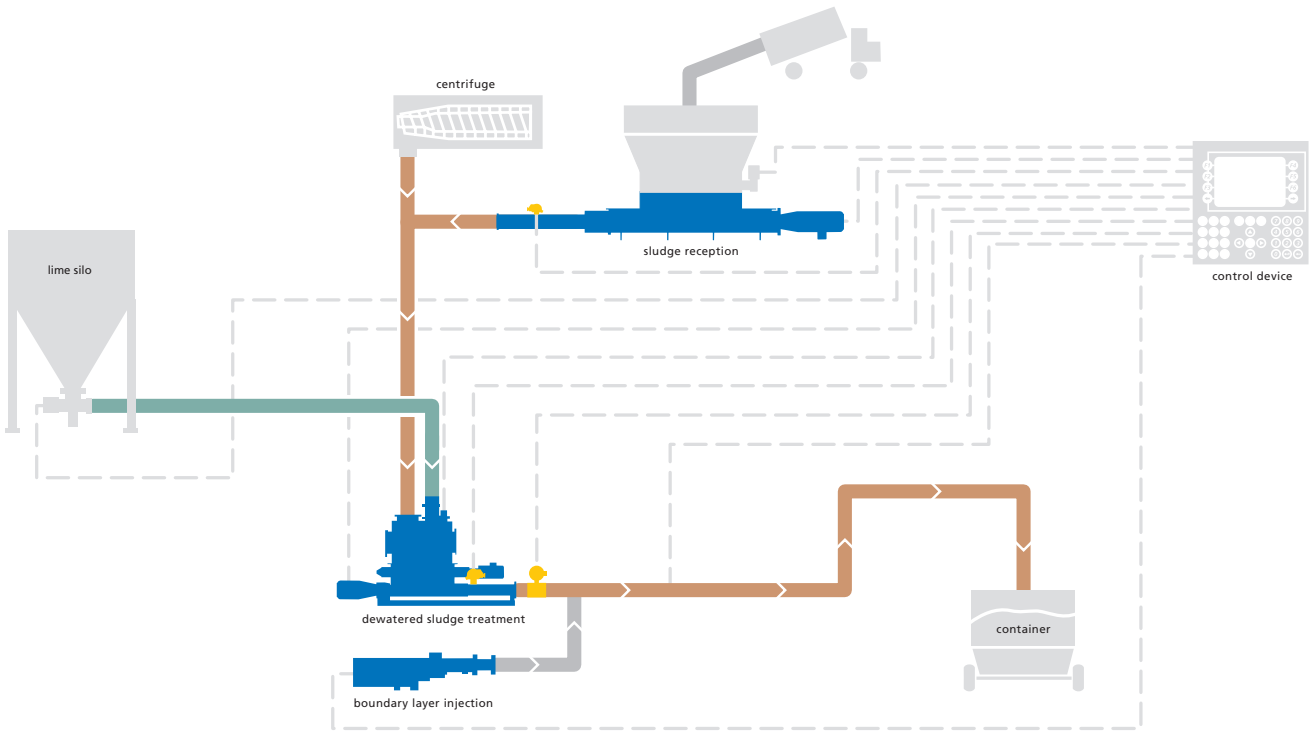
An integrated PID control constantly keeps the plant pressure on a given value by changing the pump speed. When the pressure rises to an impermissible value, a fault message is triggered and the process is switched off. All the protection functions are integrated in this control.

# Competence from one source

The control of various **seepex** pumps, including monitoring and safety equipment can be completely covered. This can be done for a packaged plant or individual pumps.

For example, a sludge cake lime treatment plant can be automatically controlled and all critical parameters recorded for analysis.

Example of a **seepex** system solution



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