

## Compact Dosing Station CTD



Efficient dosing solutions for  
simple everyday dosing processes



Standardized and yet flexible

Completely modular system

Very simple installation

An extensive range of accessories

High operational and process reliability

Excellent value for money

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# Efficient dosing solutions for simple everyday dosing processes

Planners and buyer in the dosing market may recognise the following situation: You have to find a suitable and reasonably priced solution for a simple dosing task. Since you are on a tight budget with a limited time frame there is no room for either expensive engineering or extensive delivery times.

An efficient and simple solution, which can furthermore easily be installed and maintained, is needed. Standardised dosing units by **sera** offer the perfect solution.

They feature compact construction design with e.g. an inbuilt container for provision, preparation and storage of the relevant medium. They are easy to operate and to maintain. Furthermore the user can be assured of long term flexibility when using the unit as it can easily be installed for new dosing processes at different locations.

Moreover the compact dosing units can be used for completely new applications by just exchanging a few components. Very competitive delivery times of **sera** dosing units make it the perfect solution for everyday processes.

**sera** has been continuously developing and improving the concept of flexible and all-purpose small dosing units for several decades until now. The latest generation with the name CTD (Compact Tank Dosing Unit) continues this development and convinces with a series of new and interesting features.

The **sera** compact dosing unit CTD was designed in modular steps which enables customers to find and construct their own

perfect dosing unit. Each unit includes certain standardised components by factory which can be expanded by a wide range of different accessories. As usual **sera's** compact dosing unit CTD is ready for operation in just a few minutes after the initial installation on site.

During configuration of the compact dosing unit CTD the customer has the choice between three different **sera** pump ranges and a variety of different tank sizes. The CTD could be configured as small as a 40 litre tank with a solenoid diaphragm dosing pump or fitted with a dosing tank up to 1,000 l with a controllable diaphragm pump.

## The standard package of **sera's** CTD consists of:

- A PE dosing tank with litre scale and screw cap
- Fixing bracket for secure standing of the dosing tank
- Ventilation ducts
- Suction lance with foot valve and strainer for optimised dosing

Further accessories such as agitators (both by hand or electrical), level indicator, level switch, multi-function valves, filling and emptying devices and an optional splash guard are available on request.

**sera's** CTD can also be designed gas-tight to fulfil any health and safety requirements on site. This can either be realised with a chemical lock or the connection to a ventilation system.

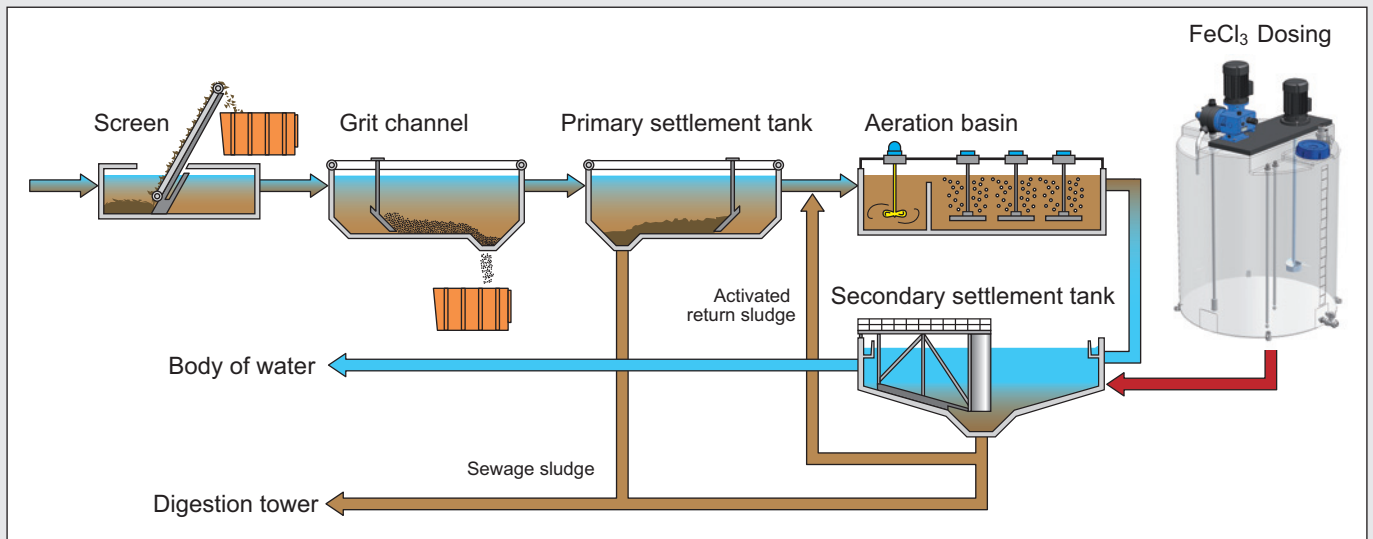
The available agitators within **sera's** CTD offer a variety of control options e.g. batch and continuous) which will ensure an optimised mixing and preparation process.



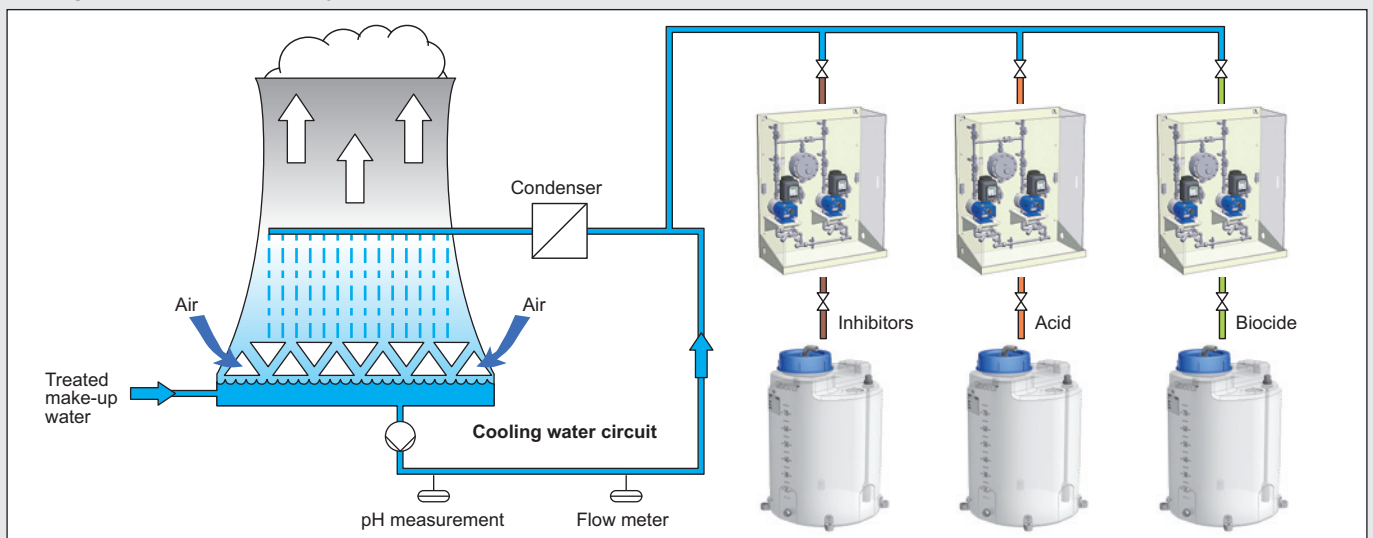
- Standard product in tried and tested **sera** quality
- Modular overall system completely made of standardized components
- High degree of individual adaptability thanks to the modular design
- Wide range of optional accessories
- Very simple installation and commissioning thanks to **sera's** „Plug & Dose“
- Extensive upgrades available for the environmental protection and occupational health and safety
- Also suitable for sensitive areas of chemical dosing
- Short delivery times and a high degree of availability



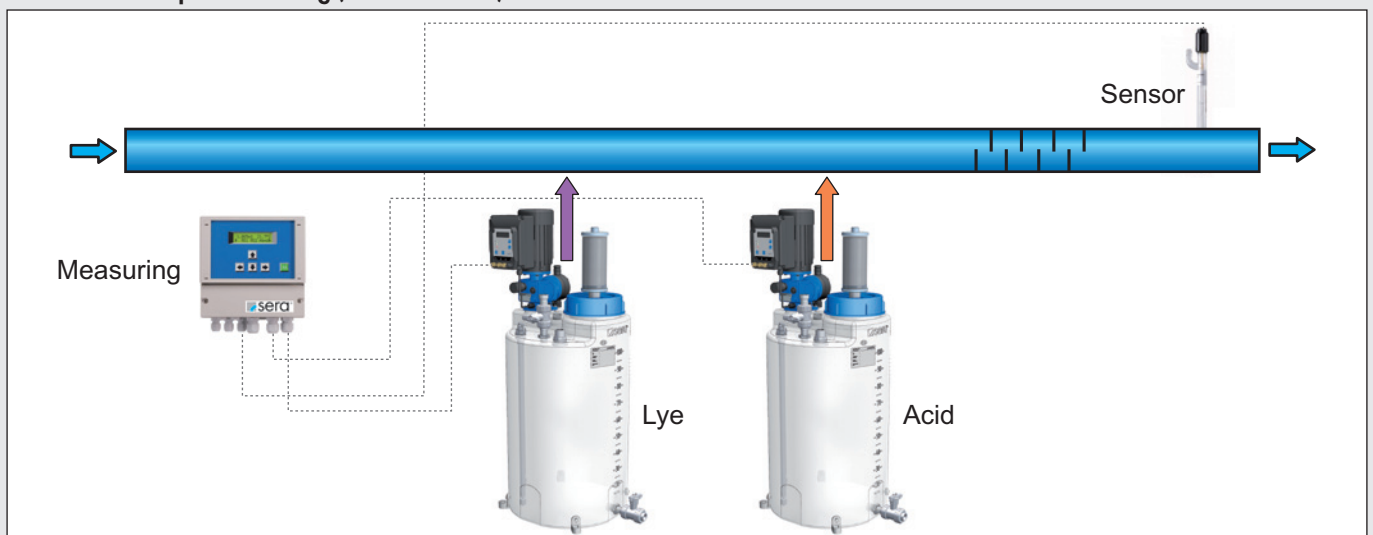
## Sewage treatment plant: Phosphate precipitation



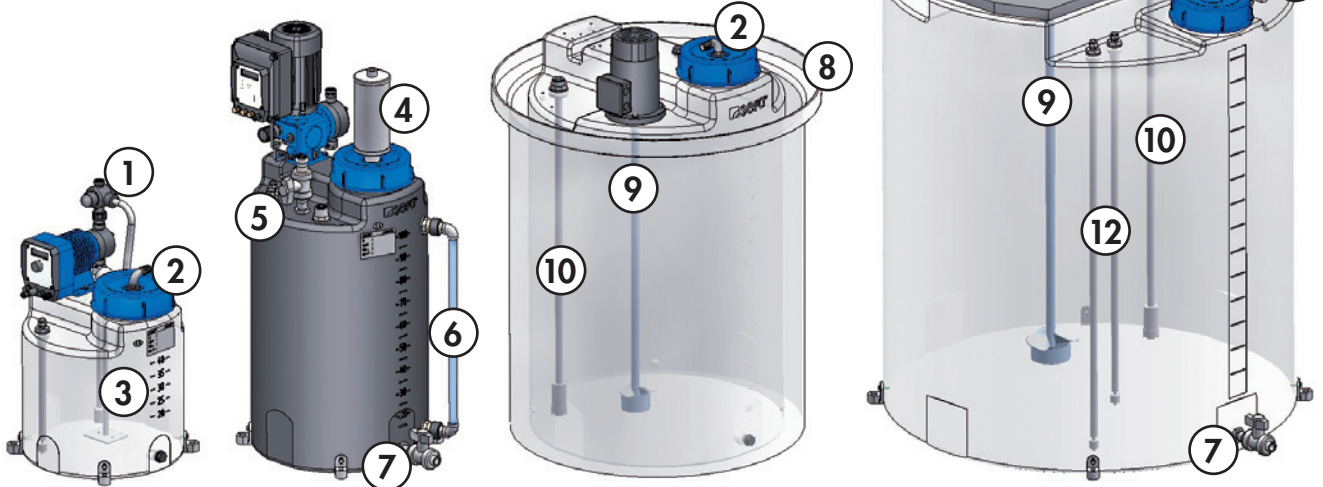
## Power plant: Treatment of cooling water



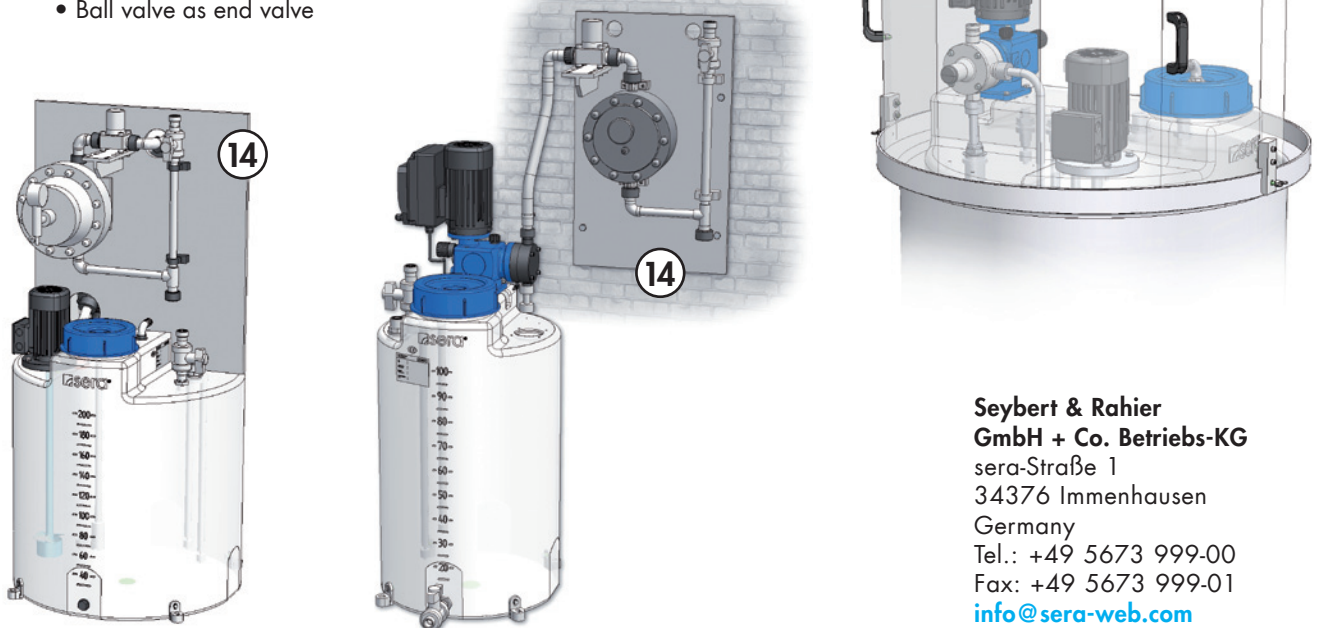
## Water treatment: pH-neutralizing (flow installation)



- ① Multi-function valve (only together with a dosing pump)
- ② Vent pipe bend (gas-tight screw connection with hose nozzle for connection to an aeration/ventilation system)
- ③ Manual stamping agitator/Manual agitator
- ④ Chemical vapour lock (gas-tight model)
- ⑤ Filling valve
- ⑥ Level indicator, outside (only for tanks made of PE black)
- ⑦ Drain valve (not possible with collecting basin)
- ⑧ Collecting basin
- ⑨ Electric agitator (also available with control electronics)
- ⑩ Suction lance
- ⑪ Return pipe
- ⑫ Level indication (by float switch)



- ⑬ Splash guard
- ⑭ Dosing Equipment (DE)  
By default a DE-option consists of:
  - Diaphragm pressure keeping valve,
  - Diaphragm pulsation damper and
  - Ball valve as end valve



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