



CVD - COMPACT AND EASY



For the use with IBCs, barrels and smallest containers

# COST-EFFECTIVE DOSING SYSTEMS IN A COMPACT DESIGN

## sera CVD – STANDARDIZED AND YET FLEXIBLE

The CVD system (Compact Vertical Dosing) is a technically mature standard product offering a high degree of flexibility in its application. Its suitability for many different dosing applications as well as its efficiency and short-term availability are impressive. The completely modular design allows you to customise – just like a building set – the functions of the system to your individual dosing requirements. You can also choose from a number of optional accessories such as the pulsation damper or the terminal boxes for the electrical power supply.

In addition, the optional safety upgrades such as the collecting basins, splash guards or leakage sensors do their part for the protection of the environment and the occupational health and safety in your company.

## THE sera “PLUG AND DOSE” PRINCIPLE

Once you have decided on a new dosing system, you want to integrate it quickly and smoothly into your process. For this reason, we make a point of reducing the time and effort for the installation and commissioning to a minimum when we develop our dosing systems. To ensure this, the CVD systems come with clearly defined interfaces for the connection to suction & discharge pipes. The sophisticated design of the system allows the valves and components to be easily retrofitted or replaced without any costly modifications after the commissioning.

**C410.2**  
to 1.450 l/h

**C409.2**  
to 350 l/h

**C409.2 ML**  
to 220 l/h

**C410.2 ML**  
to 220 l/h

**C204.1**  
to 35 l/h

**iSTEP**

**CVD1**

**CVD2**

Standard product tried and tested  
sera quality – „made in Germany“

- 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
- Compact and space-saving design
- Short delivery times and a high degree of availability

**R409.2**  
to 350 l/h

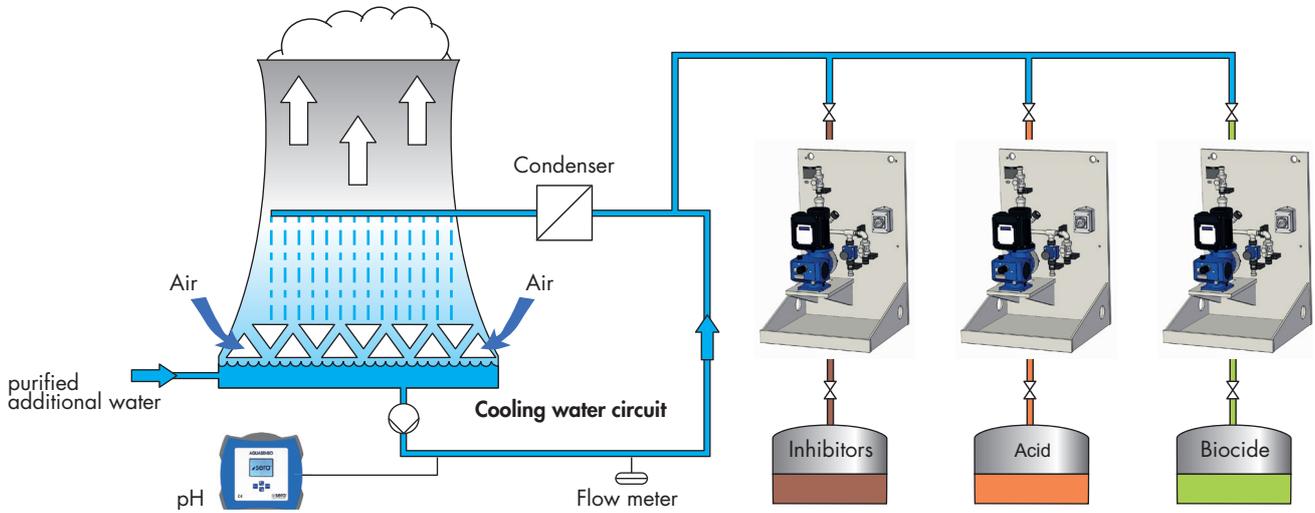
**R410.2 ML**  
to 220 l/h

**R409.2 ML**  
to 220 l/h

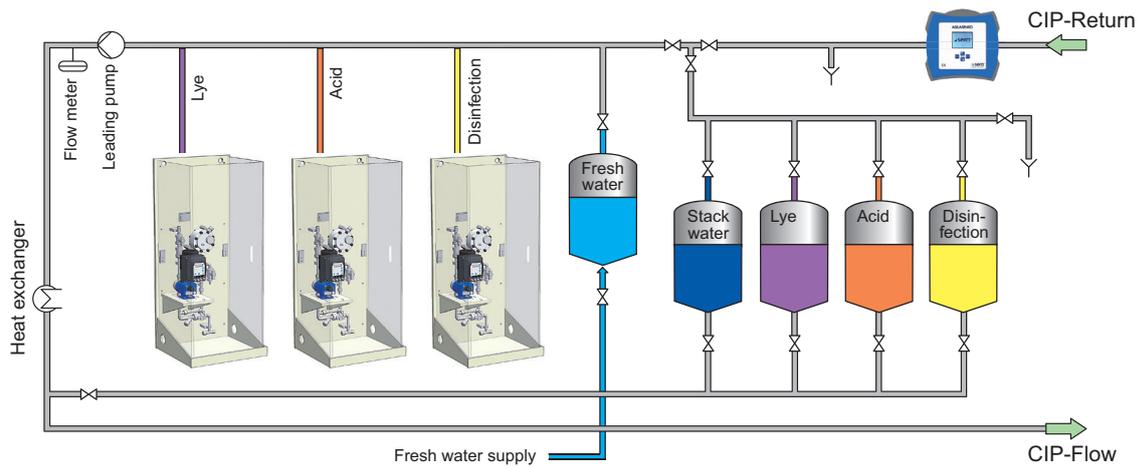
**R410.2**  
to 1.450 l/h

# APPLICATION EXAMPLES

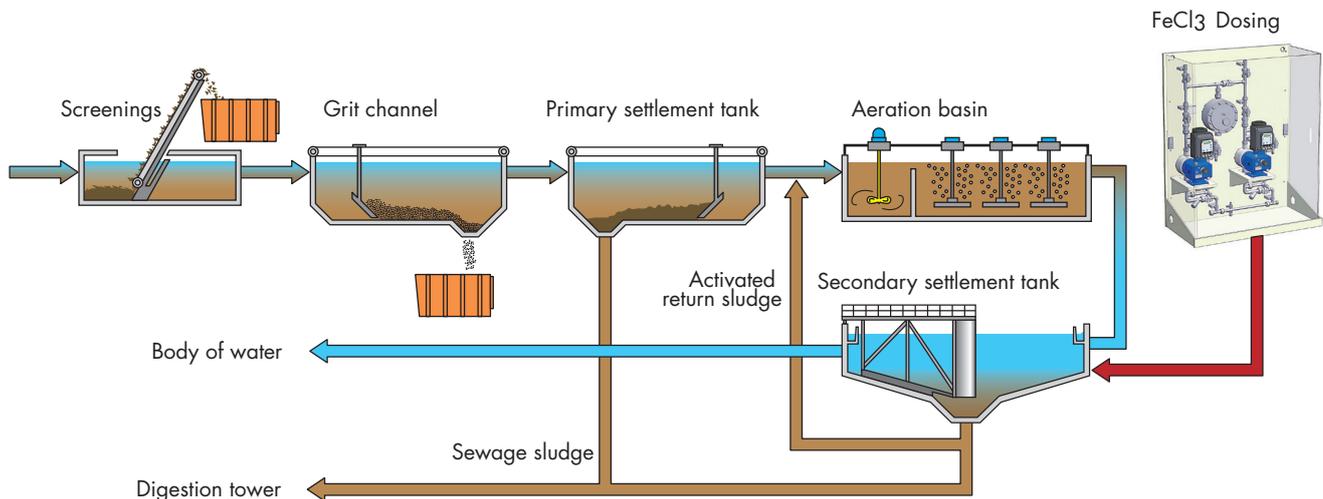
## TREATMENT OF COOLING WATER



## CIP CLEANING IN THE BEVERAGE AND FOOD INDUSTRY



## PHOSPHATE PRECIPITATION IN SEWAGE TREATMENT PLANT



# OPTIONS CVD 1/ CVD 1s

## DOSING PUMPS

Stepper motor pumps



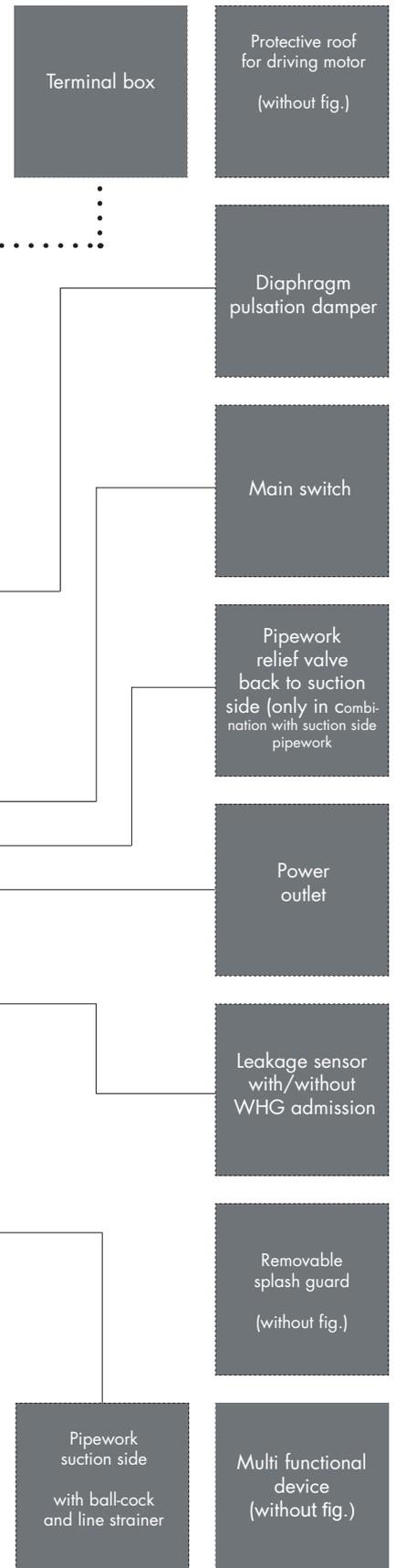
Solenoid diaphragm pumps



Diaphragm pumps



## OPTIONS DOSING UNIT



# OPTIONS CVD 2 (STANDBY - INSTALLATION)

## DOSING PUMPS

Stepper motor pumps



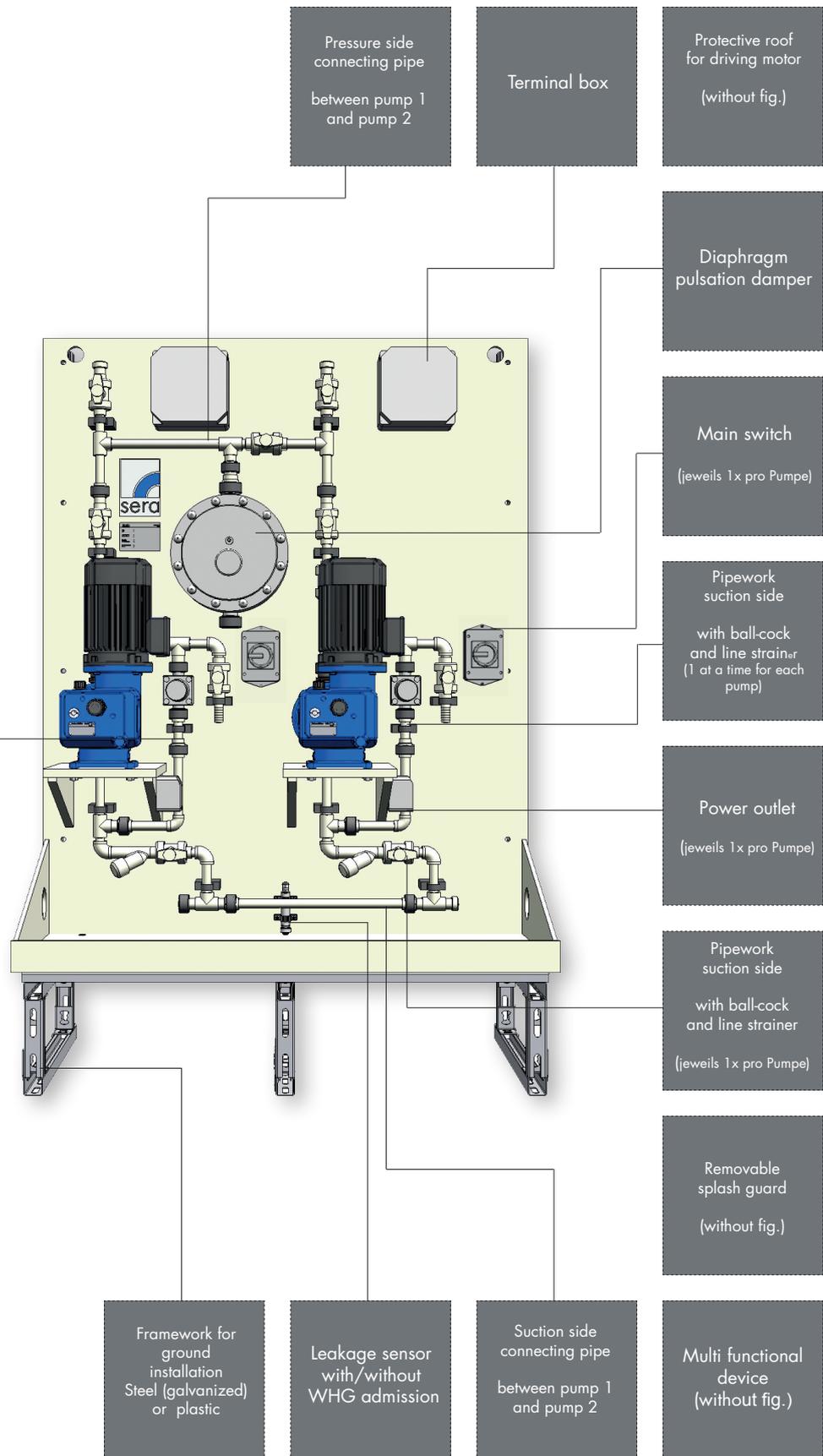
Solenoid diaphragm pumps



Diaphragm pumps



## OPTIONS DOSING UNIT



# OPTIONS CVD 2 (2 X 100% - INSTALLATION)

## DOSING PUMPS

## OPTIONS DOSING UNIT

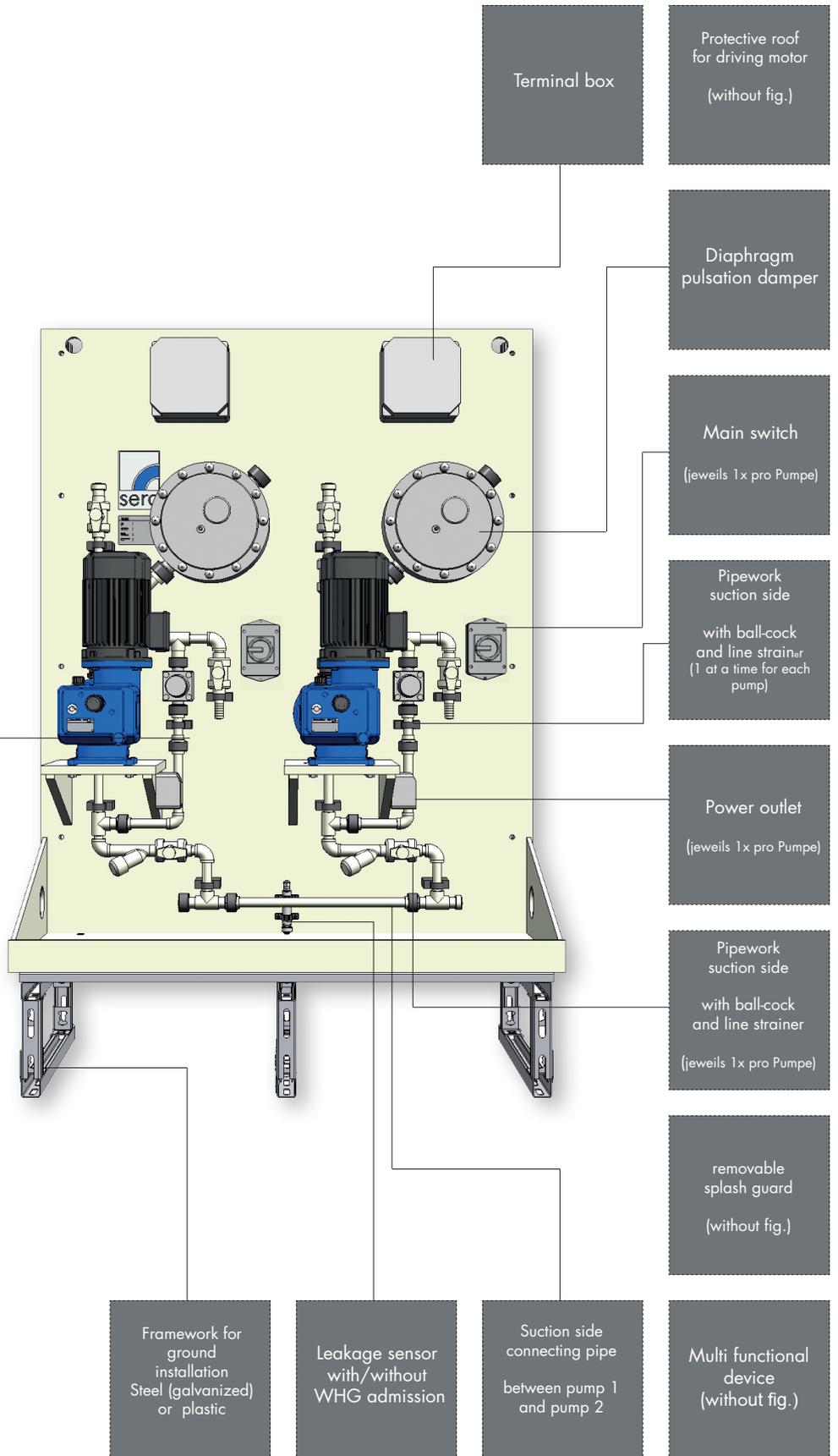
Stepper motor pumps



Solenoid diaphragm pumps



Diaphragm pumps



# CVD TECHNICAL DATA

## CVD 1/ CVD1s

Type	Flow rate l/h	admissible counterpressure* bar	admissible suction height mWS	Quantity of pumps	Pump series
CVD 1 - 60.1	up to max. 60	up to 10	up to 3	1	C204.1- 2,4e ... C204.1-35e RF409.2-2,4e ... RF409.2-50e C409.2-25e ... C409.2-50e RF/C410.2-11ML ... RF/C410.2-45ML iSTEP
CVD 1 - 550.1	up to max. 550	up to max. 10	up to 3	1	RF/C409.2-75e ... RF/C409.2-350e RF/C410.2-280e ... RF/C410.2-570e RF/C409.2-110ML ... RF/C410.2-500ML
CVD 1 - 1500.1	up to max. 1450	up to max. 6	up to 3	1	RF/C 410.2- 570e ... RF/C 410.2- 1450e RF/C410.2-1200ML

## CVD 2

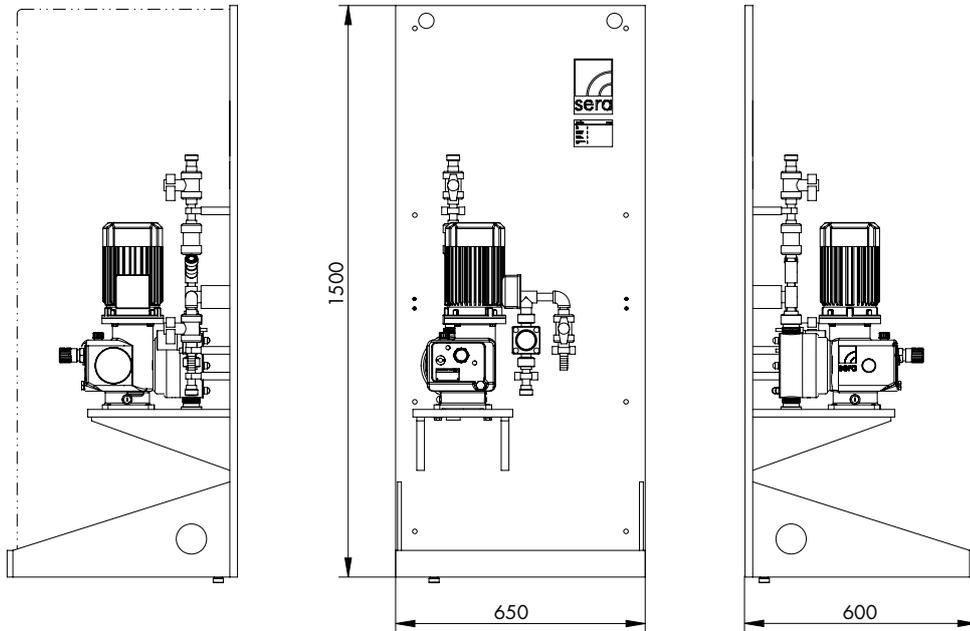
Type	Flow rate l/h	admissible counterpressure* bar	admissible suction height mWS	Quantity of pumps	Pump series
CVD 2 - 60.1	up to 2 x max. 60	up to 10	up to 3	2	C204.1- 2,4e ... C204.1-35e RF409.2-2,4e ... RF409.2-50e C409.2-25e ... C409.2-50e RF/C410.2-11ML ... RF/C410.2-45ML iSTEP
CVD 2 - 550.1	up to 2 x max. 550	up to max. 10	up to 3	2	RF/C409.2-75e ... RF/C409.2-350e RF/C410.2-280e ... RF/C410.2-570e RF/C409.2-110ML ... RF/C410.2-500ML
CVD 2 - 1500.1	up to 2 x max. 1450	up to max. 6	up to 3	2	RF/C 410.2- 570e ... RF/C 410.2- 1450e RF/C410.2-1200ML

\*) please note the max. admissible counter pressure of the chosen dosing pump!

# CVD 1 DIMENSIONS

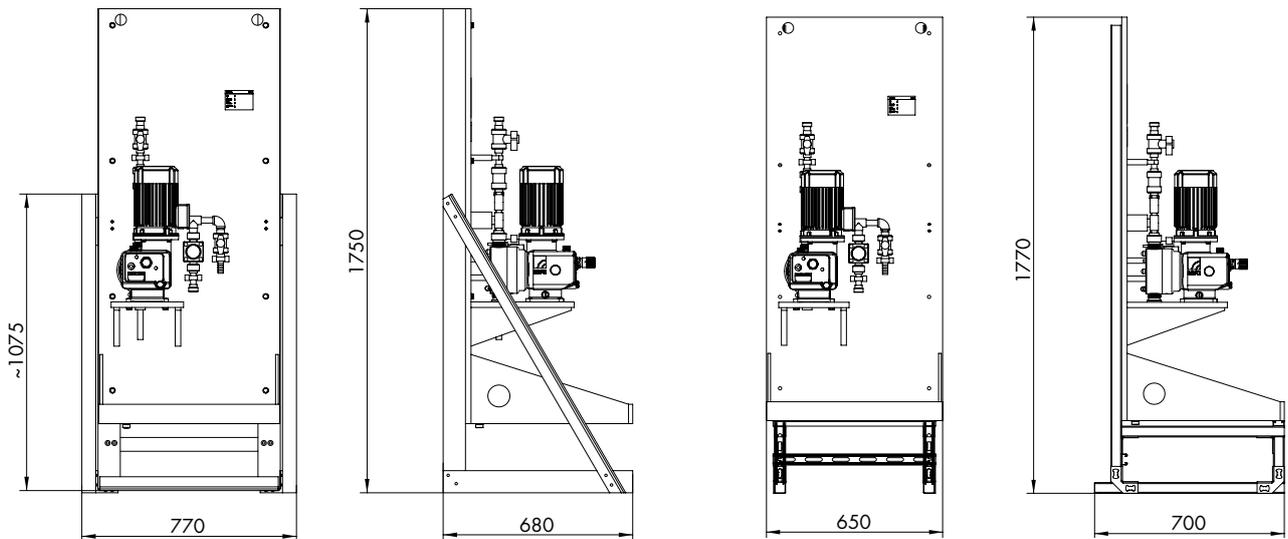
## CVD 1

Outer dimensions (basic design with options)



with framework f. ground installation (FRP, option)

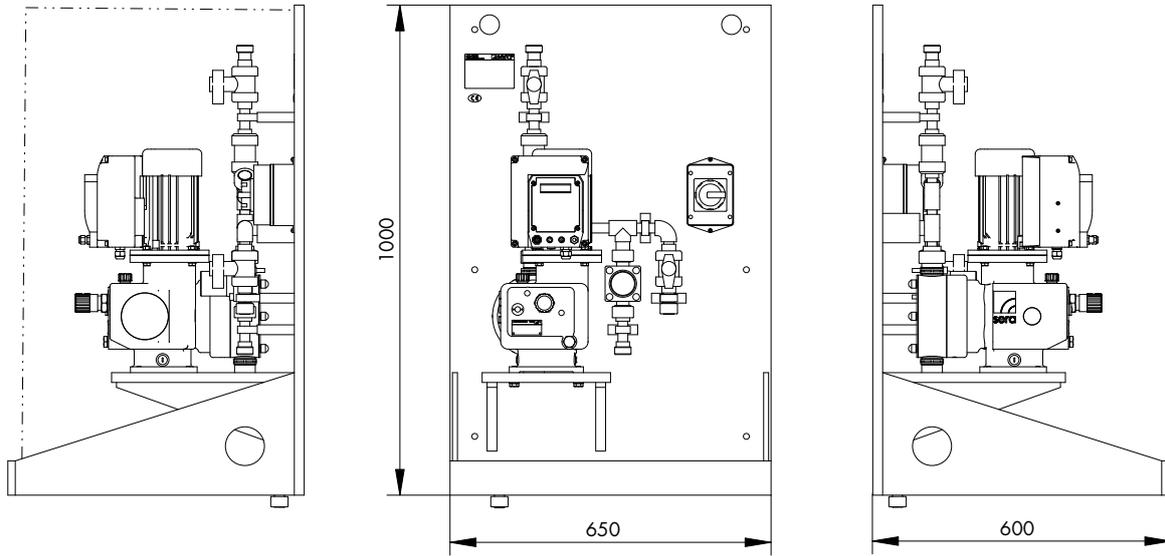
with framework f. ground installation (galvanized steel, option)



# CVD 1s DIMENSIONS

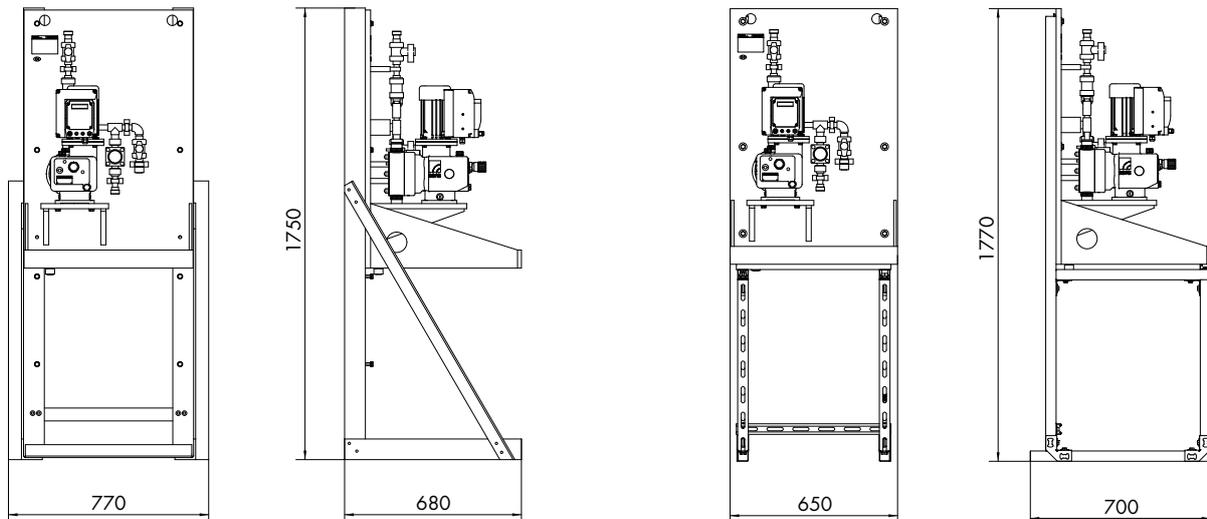
## CVD 1s

Outer dimensions (basic design with options)



with framework f. ground installation (FRP, option)

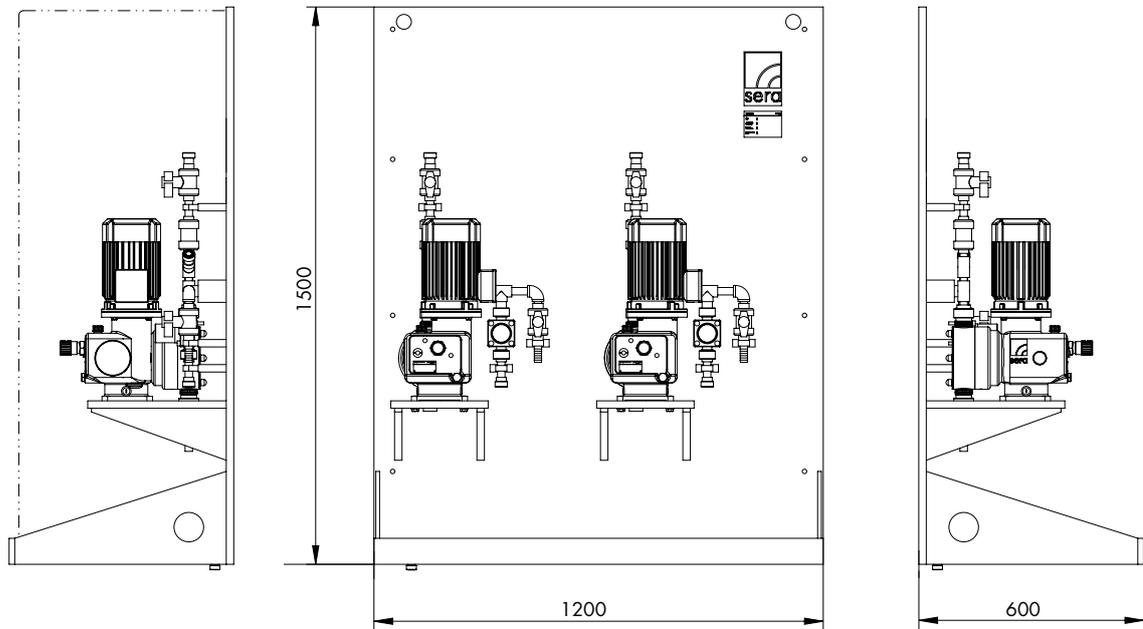
with framework f. ground installation (galvanized steel, option)



# CVD 2 DIMENSIONS

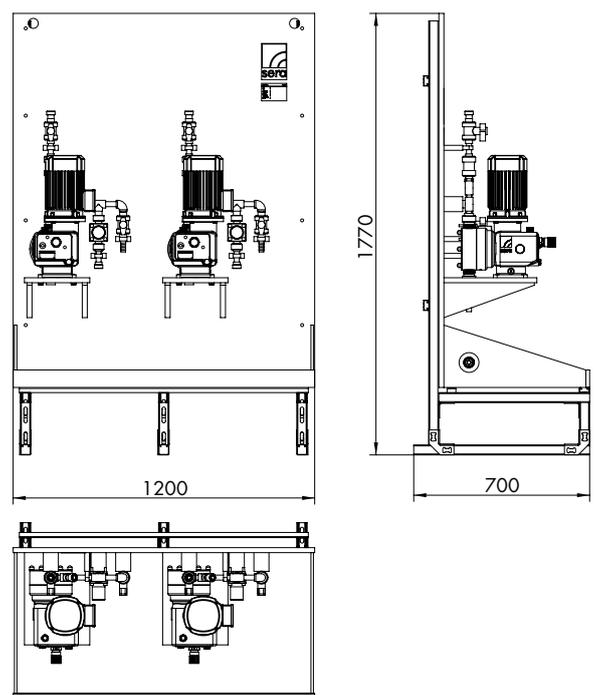
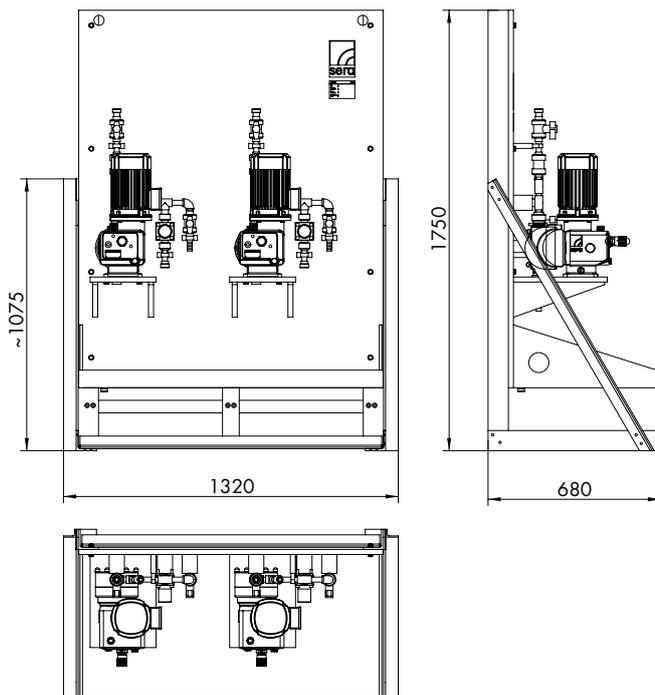
## CVD 2

Outer dimensions (basic design with options)



with framework f. ground installation (FRP, option)

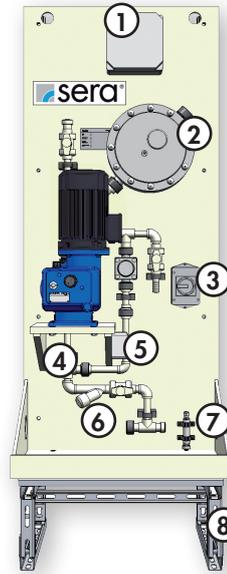
with framework f. ground installation (galvanized steel, option)



# EXTENSIVE ACCESSORIES

## OPTIONS AND ACCESSORIES FOR sera CVD1, CVD1s AND CVD2

- ① Terminal box
- ② Diaphragm pulsation damper
- ③ Main switch
- ④ Piping from overflow valve back into the suction pipe  
(Only in connection with piping on the suction side)
- ⑤ Socket
- ⑥ Piping suction side with ball cock and line strainer
- ⑦ Leakage sensor
- ⑧ Frame for floor mounting of steel (galvanised) or glass fibre reinforced plastic
- ⑨ Splash guard
- ⑩ Filling pump FLP2
- ⑪ Hand vacuum pump



- Protective roof for
- Connection kit F
- Optical flow cor
- Draining-/Flushi
- Measuring devic
- Drain cock drip pan (without picture)
- GEKA-coupling for flushing valve (without picture)



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## SUCTION AIDS, INJECTION POINTS, DOSING VALVES, SUCTION LANCES

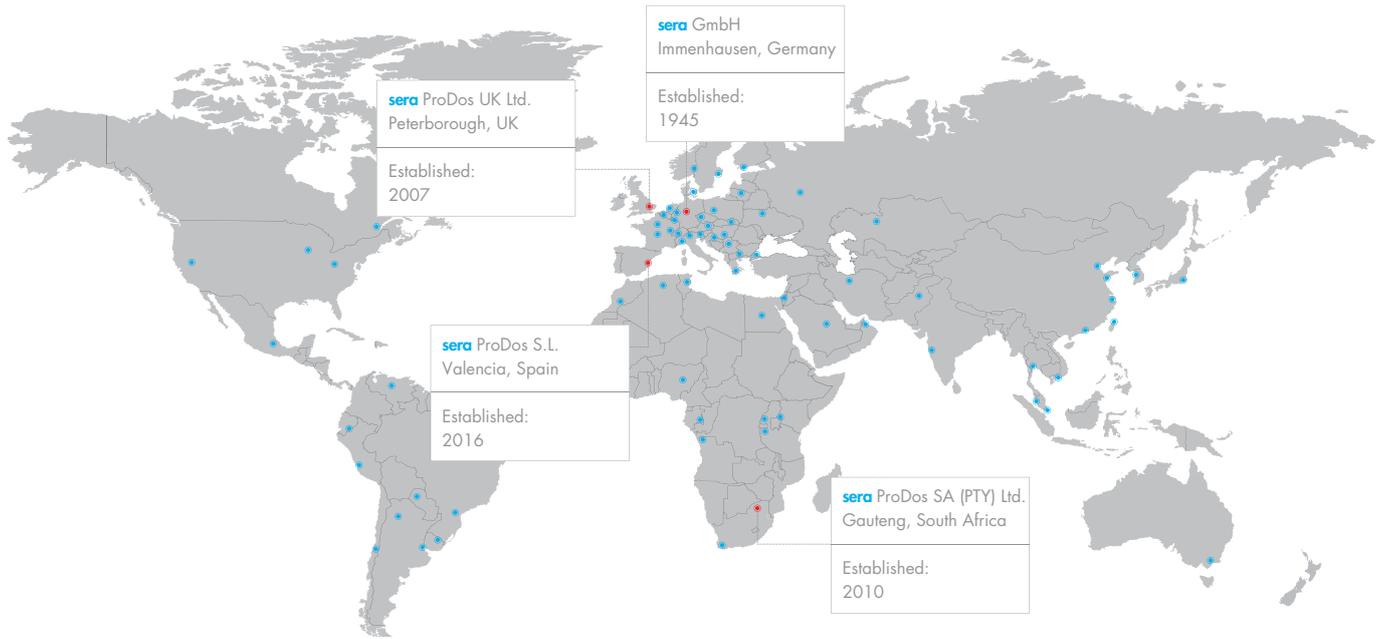
- Suction lances with and without level switch, with protecting tube
- Injection points with injection lance for better mixing
- Dosing valves



## CONTAINERS / TANKS

- Container made of UV-stabilised polyethylene, from 35 – 1,000 l, food safe, central mounting bracket, sintered litre scale, connection for draining





# WORLDWIDE.

With a headquarter in Germany and local offices in England, Spain and South Africa and a worldwide sales and service network with more than 30 foreign representatives in more than 80 countries across all continents, **sera** guarantees optimum support for customers locally.



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