



## Modular, simple, precise

SMART Digital S:

DDE 6 - 10

DDE 15- 4



### Digital Dosing

The SMART Digital S generation DDE is manual speed control dosing pump with powerful variable-speed stepper motor brings state-of-the-art technology to perfection. Combined expert knowledge and the new patented solutions set future standards. Traditional technologies such as stroke length / stroke frequency adjustment with synchronous motor or solenoid drive become a thing of the past.

### Unique flexibility with only a few variants

The included click-stop mounting plate makes the pump more flexible. Service and pump exchange can now be done easily and fast by just clicking the pump in and out of the mounting plate.

A turn-down ratio of up to 1:1000, a wide supply voltage range (100-240 V; 50/60 Hz), combined connection sets and other features reduce the models and variants to a minimum.

### Precise and easy setting

The operator can easily install the pump and set it to discharge exactly the quantity of dosing liquid required for the application by adjust the capacity knob. In the display, the setting of the pump is read out directly, the flow is shown as logarithmic scale in l/h.

The capacity knob also can be locked by mechanical lock to protects the set dosing capacity against unauthorized manipulation.

The setting range depends on the pump type:

DDE 6-10 ---> 0.006 - 6 (l/h)

DDE 15-4 ---> 0.0015 - 15 (l/h)

So the pump can easily be integrated into fluctuating flow.

### Variants

Dosing head	PVC, PVDF or stainless steel 1.4401
Gaskets	EPDM, FKM or PTFE
Valve ball	Ceramics
Valve types	Standard
Connection sets (inlet and outlet side)	<ul style="list-style-type: none"> <li>hose connection 4/6 mm, 9/12 mm</li> <li>hose connection 4/6 mm, 9/12 mm</li> </ul>
Installation sets	<ul style="list-style-type: none"> <li>Hose 4/6 mm (up to 7.5 l/h, 13 bar)</li> <li>Hose 9/12 mm (up to 60 l/h, 9 bar)</li> </ul>

### Designed to save costs

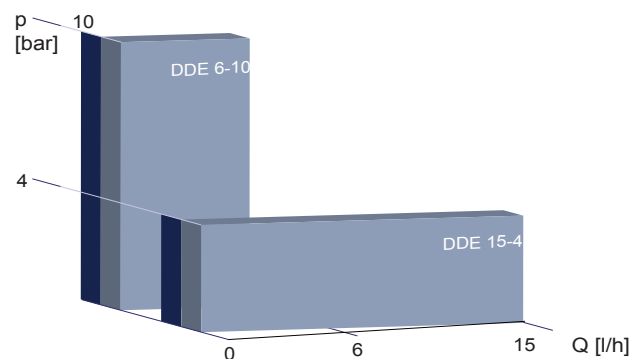
In general, the investment for a dosing pump installation is low compared to its life cycle costs, including the cost of the chemicals. The following features make the SMART Digital S DDE pumps contribute to low life cycle costs:

- No underdosing or overdosing due to high dosing accuracy
- Longer maintenance intervals thanks to the universal chemical resistance of the full-PTFE diaphragm
- Reduced energy consumption thanks to state-of-the-art drive technology.

### Pumped liquid Guide

Description	Chemical Formula	Concentration (%)	Dosing Head	Material Gasket		
				FKM	EPDM	PTFE
Aluminium Sulphate	Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>	60	PVC	●	●	●
Hydrochloric Acid	HCl	< 25	PVC	●	●	●
		25 - 37	PVC	●	○	●
Sodium Hydroxide	NaOH	20	PVC	●	●	●
		30	PVC	○	●	●
		50	PVC	-	●	●
Sodium Hypochlorite	NaOCl	12 - 15	PVC	●	●	●

### Performance range



## Processes

SMART Digital can be used in a wide range of processes...

- Disinfection
- pH-adjustment
- Chemical dosing
- Cleaning-in-place
- Biocides
- Coagulation
- Precipitation/  
Flocculation
- Filtration
- Reverse osmosis

## Service

The following service kits are obtainable (for PVC, PVDF and stainless steel):

- Complete dosing head kit
- Valves and diaphragm kit
- Valve kit
- Diaphragm kit

Please see service catalogue for further service kits and details.

***SMART Digital pumps have outstandingly long maintenance intervals.***

***Wear and tear parts which have been in contact with the media only have to be replaced after 8000 operating hours (or after two years at the latest).***

***Shorter intervals might be necessary for highly-abrasive media.***

## Application areas

... within a vast field of application areas:

- Ground water
- Surface water
- Drinking water
- Process water
- Recreational water
- Recycle & reuse

