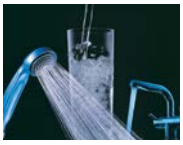


SAFE, FLEXIBLE, COST-SAVING

SMART Digital XL dosing pumps from 0.075 to 200 l/h

Digital Dosing

The SMART Digital XL DDA and DDE dosing pumps with powerful servomotors bring state-of-the-art technology to perfection. The proprietary FlowControl system sets future standards for large dosing pumps. Traditional technologies such as stroke length/frequency adjustment or frequency converters with asynchronous motor drives become a thing of the past.

Easy selection, few variants, stock reduction

The SMART Digital XL has a wide dosing range (ratio 1:800) and high dosing accuracy.

Three sizes (60-10, 120-7, 200-4) cover a dosing range from 0.075 l/h to 200 l/h. With its wide range of power supplies (100-240 V, 50/60 Hz) the SMART Digital XL can be used globally. All international approvals are available.

Degassing chemicals (hypochlorite) and high-viscosity liquids up to 3,000 mPas can be dosed. The dosing head is available in various materials fit for all liquid chemicals.

With only two models, DDE (Eco) and DDA (Advanced), the SMART Digital XL can easily be integrated into all dosing applications.

Excellent dosing accuracy

The dosing accuracy is +/- 1.5 % of the actual setpoint. This allows precise dosing of chemicals, even with small dosing quantities (ratio 1:800).

SMART Digital XL is able to dose concentrated chemicals, they don‘t have to be diluted. Chemicals are saved, transportation costs are reduced, smaller dosing tanks can be used. Moreover, the chemical consumption is reduced by dosing precisely the amount of chemicals required.

Dosing is almost pulsation-free, no additional accessories are needed. Overdosing is prevented and environmental and health protection are improved.

Integrated flowmeter reduces installation costs

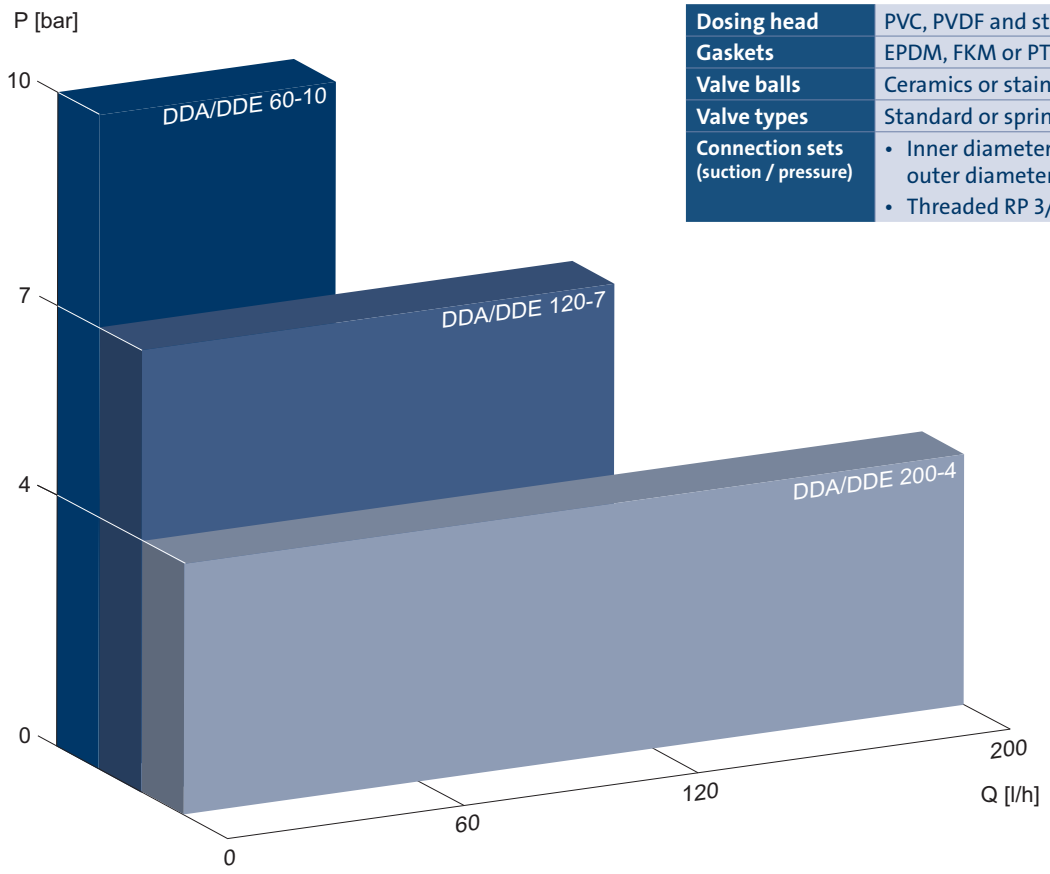
An external flowmeter is not required. The integrated positive-displacement flowmeter (DDA-FCM) measures precisely the dosed volume per stroke, and the integrated controller corrects the dosing flow automatically. Temperature, counterpressure, viscosity or air bubbles have no influence on the dosing accuracy.

This means full control of the dosing process on both the suction and pressure side with automatic failure correction, detection of air bubbles, and start of the automatic priming program.

Safe dosing with automatic failure correction

- Reduced operator time
- Increased system safety
- High process reliability
- Low failure rate

Performance range



Variants

Dosing head	PVC, PVDF and stainless steel 1.4401
Gaskets	EPDM, FKM or PTFE
Valve balls	Ceramics or stainless steel 1.4401
Valve types	Standard or spring-loaded
Connection sets (suction / pressure)	• Inner diameter of hose 19 mm; outer diameter of pipe 25 mm • Threaded RP 3/4" for stainless steel

Technical data

Pump type	DDA		DDE	
Control variant	FCM	AR	AR	B
Operation modes				
Manual speed control	•	•	•	•
Pulse control in ml/pulse	•	•	•	
Analog control (0)4-20 mA	•	•	•	
Batch control (pulse-based)	•	•		
Dosing timer, cycle	•	•		
Dosing timer, week	•	•		
Fieldbus control	•	•		
Functions				
Auto-deaeration also during pump standby	•	•		
FlowControl system with selective fault diagnosis	•			
Pressure monitoring (min/max)	•			
Flow measurement	•			
AutoFlowAdapt	•			
SlowMode (anti-cavitation)	•	•		
Output relay (2 relays)	•	•	•	
Double-diaphragm leakage detection (optional)		•		

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