The Grundfos SMART Digital XL DDA and DDE digital diaphragm
dosing pumps enable accurate dosing of virtually all chemicals
up to 52.8 gph and 145 psi while offering great flexibility and user
friendliness. The two pump models open up new application
possibilities within industry, water utility, agriculture and more.

**Easy selection, few variants, stock reduction**
The SMART Digital XL DDE (Economical) and DDA (Advanced),
can easily be integrated into typical dosing applications.

Three sizes (60-10, 120-7, 200-4) cover a dosing range from 0.02
gph to 52.8 gph (0.075 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.

The mounting plate allows quick installation on any horizontal
surface, and the control cube can easily be modified to face left,
right, or straight ahead.

**Excellent dosing accuracy**
The dosing accuracy is +/- 1.5 % of the actual setpoint and +/- 0.1%
of full scale. This allows precise dosing of chemicals, even with
small dosing quantities (ratio 800:1).

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 like flow measurement capability of the (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
fluence 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

**APPLICATIONS**
- Disinfection
- pH adjustment
- Chemical dosing (anti foamers, cleaners, biocides,
bleaches, surface handling agents, etc.)
- Cleaning in place (CIP)
- Coagulation
- Precipitation/flocculation
- Filtration
- Reverse osmosis
Technical Data

SMART Digital XL information
- Dosing head: PVC, PVDF and Stainless Steel 1.4401
- Gaskets: EPDM, FKM or PTFE
- Valve balls: Ceramics or stainless steel 1.4401 (SS heads only)
- Connection sets (suction / pressure): Threaded: 3/4” MNPT for PVC and PVDF; 3/4” FNPT for stainless steel
- Max Flow, Q: 52.8 gph (200 l/h)
- Max Pressure, P: 145 psi (10 bar)
- Turndown ratio: 800:1
- Liquid viscosity: max 3000 mPas, depending on model and setup
- Supply voltage: 100-240 V, 50-60Hz
- Power consumption: max 80 W
- Weight: 14.8-33.1 lbs (6.7-15 kg), depending on material
- Sound pressure level: 80 dB(A)
- Enclosure rating: IP65, NEMA 4X
- Approvals: NSF61, CSA-US

Performance Range

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FCM: Flow Control Measurement
AR: Analog Relay
B: Basic