The SMART Digital DDA, DDC and DDE models with powerful variable-speed stepper motors bring 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. The click-stop mounting plate provides unique mounting flexibility, and the entire dosing range up to 8 gph is covered with only a few pump variants.

Key Features and Benefits

- **Modularity**: The included click-stop mounting plate is an example of the unique flexibility offered, with only a few variants.
- **Simplicity**: Easy handling and perfect overview and control ensure simple installation, commissioning and operation.
- **Flow intelligence**: The pump monitors the dosing process of liquids when the FlowControl function is activated, for advanced process reliability with accuracy of 1% of setpoint.

**DDA Models**
- High-end solution for complex and demanding applications
- Flow and pressure up to 8 gph and up to 232 psi
- Auto-deaeration during pump standby
- Flexible Fieldbus control
- Turn-down ratio 3000:1 with constant 100% stroke length

**DDC Models**
- Optimal price-performance ratio
- Flow and pressure up to 4 gph and up to 145 psi
- Two SlowMode functions (25% and 50%), calibration mode, service display
- External stop, dual-level tank control, 2 relay outputs

**DDE Models**
- Digital Dosing™ even for the low budget segment
- Flow and pressure from 0.0015 to 4 gph and up to 145 psi; two models cover entire range
- Control options: manual control 0.1-100 %, pulse in % of stroke volume
- External stop, empty tank control

**APPLICATIONS**
- Disinfection and pH adjustment
- Drinking water, process water and wastewater
- Food and beverage, Clean-in-place
- Ultrafiltration and reverse osmosis
- Pulp and paper, boiler feed water
- Swimming pool water, cooling towers
- Coagulation, flocculation, precipitation
- Chemical industry, car wash, irrigation
- Anywhere chemical treatment and conditioning of water is required
Technical Data & Feature Overview

DDA/DDC/DDE INFORMATION

**Pump Type**

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**Functions**

- Auto deaeration also during pump standby: • • •
- FlowControl system with selective fault diagnosis: • •
- Pressure monitoring (min / max): • •
- Flow measurement: •
- AutoFlowAdapt: •
- SlowMode (anti-cavitation): • • • •
- Calibration mode: • • • •
- Scaling of analogue input: • •
- Service information display: • • • •
- Relay setting: alarm, warning, stroke signal, pump dosing: • • • •
- Relay setting (additionally): timer cycle, timer week: • •

**Inputs/outputs**

- Input for external stop: • • • • • •
- Input for pulse control: • • • • • •
- Input for analogue 0/4-20 mA control: • • • •
- Input for low-level signal: • • • • • • •
- Input for empty tank signal: • • • • • • •
- Output relay (2 relays): • • • •
- Output, analogue 0/4-20 mA: • • • •
- Input/output for Genibus: • • • •
- Input/output for E-box (ProField DP or additional alarm relays): • • • •

**Control Variants**

- FCM: Flow Control Measurement
- FC: Flow Control
- PR: Pulse Relay
- P: Pulse input
- AR: Analog Relay
- A: Analog
- B: Basic