

Qty. Description

1 DDA 120-7



Note! Product picture may differ from actual product

Product No.: [99159471](#)

DDA 120-7 AR-PV/T/C-F-31A7A7BG

The SMART Digital DDA is a compact positive displacement, diaphragm dosing pump with variable-speed drive (PMS motor) and intelligent control electronics with minimum energy consumption. The SMART Digital Dosing series operates at full stroke length to ensure optimum accuracy, priming and suction, even for high-viscosity or degassing liquids. The duration of each discharge stroke varies according to the capacity set, resulting in optimum smooth and continuous discharge flow.

The mounting plate allows quick installation and service. The control cube can be turned easily into front, left or right position. The click wheel and the multi-coloured backlit graphical, plain-text LC display make commissioning and operation intuitive. The control elements are protected by a transparent cover.

The dosing head is composed of:

- Long lifetime and universal, chemically resistant full double PTFE diaphragm.
- Ball valves for highest dosing accuracy.
- Deaeration valve for easy startup.

Operating modes:

- Manual dosing in ml/h, l/h or gph.
- Pulse control in ml/pulse (incl. memory function).
- Analog control 0/4-20 mA (scalable).
- Pulse-based batch function in ml, l or gal.
- Timer-based batch function (Dosing timer, cycle or week).
- Fieldbus control (GENIbus prepared for Grundfos CIU fieldbus modules).

Other features:

- Auto deaeration during pump standby to avoid breakdowns due to air-locking.
- Two SlowMode steps (anti-cavitation), 50 % (maximum flow: 60 l/h) and 25 % (maximum flow: 30 l/h), e.g. for high-viscosity or degassing liquids.
- Service information display to show when service and which wear-part order number is required.
- Two-step key lock function to protect the pump against unauthorised access.
- Additional display function to provide further information, e.g. the actual mA input signal.
- Counter for total dosed volume (resettable), operating hours, etc.
- Save and load customised settings as well as reload of factory settings.

Signal inputs/outputs:

- Input for pulse, analog 0/4-20mA and external stop.
- Input for low-level and empty-tank signal.
- Two potential-free output relays for maximum 30 V AC/DC (configurable, e.g. alarm, stroke signal, pump dosing, timer etc.)
- Output analog 0/4-20mA.
- Fieldbus communication interface (GENIbus, for connection of the Grundfos CIU fieldbus converter).

Controls:

Control variant: AR

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	Level control: YES Analog input: 0/4-20 MA Pulse control: YES Ext. Stop input: YES Analog output: 0/4-20 MA Output relays: 2 Bus communication: YES Liquid: Pumped liquid: Water Liquid temperature range: 0 .. 50 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m ³ Technical: Type key: DDA 120-7 AR-PV/T/C-F-31A7A7BG Max. Flow: 120 l/h Max. flow in slow mode 50%: 60 l/h Max. flow in slow mode 25%: 30 l/h Min flow: 150 ml/h Turn-down ratio: 1:800 Approvals on nameplate: CE,CSA-US,NSF61,RCM Valve type: Standard Maximum viscosity at 100 %: 100 mPas Maximum viscosity in slow mode 50 %: 1500 mPas Maximum viscosity in slow mode 25 %: 3000 mPas Accuracy of repeatability: 1.5 % Materials: Dosing head: PVDF (Polyvinylidene fluoride) Valve ball: Ceramic Gasket: PTFE Installation: Range of ambient temperature: 0 .. 45 °C Maximum operating pressure: 7 bar Installation set: NO Installation type: No installation set Pump inlet: Conn. Threaded 3/4#NPTM CodeA7 Pump outlet: Conn. Threaded 3/4#NPTM CodeA7 Max. Suction lift during operation: 3 m Max. Suction lift during priming: 1.5 m Electrical data: Maximum power input - P1: 62 W Mains frequency: 50 / 60 Hz Rated voltage: 1 x 100-240 V Enclosure class (IEC 34-5): IP65 / NEMA 4X Length of cable: 1.5 m Type of cable plug: USA, Canada Inrush current: 70A at 240V (35A/100V) for 2ms Others: Net weight: 7 kg Gross weight: 8 kg Color: RED