

Company name: Created by: Phone:

Date: 07/07/2020

Qty. Description

DDA 60-10

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Note! Product picture may differ from actual product

Product No.: 99159371

DDA 60-10 AR-PVC/V/C-F-31U3U3F

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, I 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: 30 l/h) and 25 % (maximum flow: 15 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:

Level control:

AR

YES

Analog input:

Pulse control:

Ext. Stop input:

Analog output:

O/4-20 MA

Output relays:

AR

YES

0/4-20 MA

2

Output relays: 2
Bus communication: YES

Liquid:



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Pumped liquid: Water
Liquid temperature range: 0 .. 40 °C
Selected liquid temperature: 20 °C
Density: 998.2 kg/m³

Technical:

Type key: DDA 60-10 AR-PVC/V/C-F-31U3U3F

Max. Flow: 60 l/h
Max. flow in slow mode 50%: 30 l/h
Max. flow in slow mode 25%: 15 l/h
Min flow: 75 ml/h
Turn-down ratio: 1:800

Approvals on nameplate: CE,CSA-US,NSF61,EAC,RCM

Valve type: Standard
Maximum viscosity at 100 %: 150 mPas

Maximum viscosity in slow mode 50 %: 2000 mPas Maximum viscosity in slow mode 25 %: 3000 mPas

Accuracy of repeatability: 1.5 %

Materials:

Dosing head: PVC (Polyvinyl chloride)

Valve ball: Ceramic Gasket: FKM

Installation:

Range of ambient temperature: 0 .. 45 °C

Maximum operating pressure: 10 bar

Installation set: NO

Installation type: No installation set

Pump inlet: Conn.pack U3 (hose ID.19mm &...
Pump outlet: Conn.pack U3 (hose ID.19mm &...

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: EU

Inrush current: 70A at 240V (35A/100V) for 2ms

Others:

Net weight: 6 kg
Gross weight: 7 kg
Color: RED
Country of origin: DE
Custom tariff no.: 84135040