

Date: 12/11/2018

Count | Description

DDA 60-10



Product photo could vary from the actual product

Product No.: 99159460

DDA 60-10 AR-SS/T/SS-F-31A3A3B

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: 7.925 US gal/hour) and 25 % (maximum flow: 3.963 US gal/hour), 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: 32 .. 122 °F
Liquid temperature during operation: 68 °F
Density: 62.29 lb/ft³

Technical:

Type key: DDA 60-10 AR-SS/T/SS-F-31A3A3B

Max. Flow: 15.85 US gal/hour Max. flow in slow mode 50%: 7.925 US gal/hour Max. flow in slow mode 25%: 3.963 US gal/hour

Min flow: 75 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 %: 2000 mPas Maximum viscosity in slow mode 25 %: 3000 mPas

Accuracy of repeatability: 1 %

Materials:

Dosing head: Stainless Steel 1.4435

Valve ball: Stainless steel

Gasket: PTFE

Installation:

Range of ambient temperature: 32 .. 113 °F
Maximum operating pressure: 145 psi
Installation set: NO

Installation type: No installation set

Pump inlet: Conn. threaded 3/4#NPTF CodeA3
Pump outlet: Conn. threaded 3/4#NPTF CodeA3

Max. Suction lift during operation: 9.843 ft Max. Suction lift during priming: 4.922 ft

Electrical data:

Maximum power input - P1: 62 W Main frequency: 60 Hz

Rated voltage: 1 x 100-240 V Enclosure class (IEC 34-5): IP65 / NEMA 4X

Length of cable: 4.922 ft
Type of cable plug: USA, Canada

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

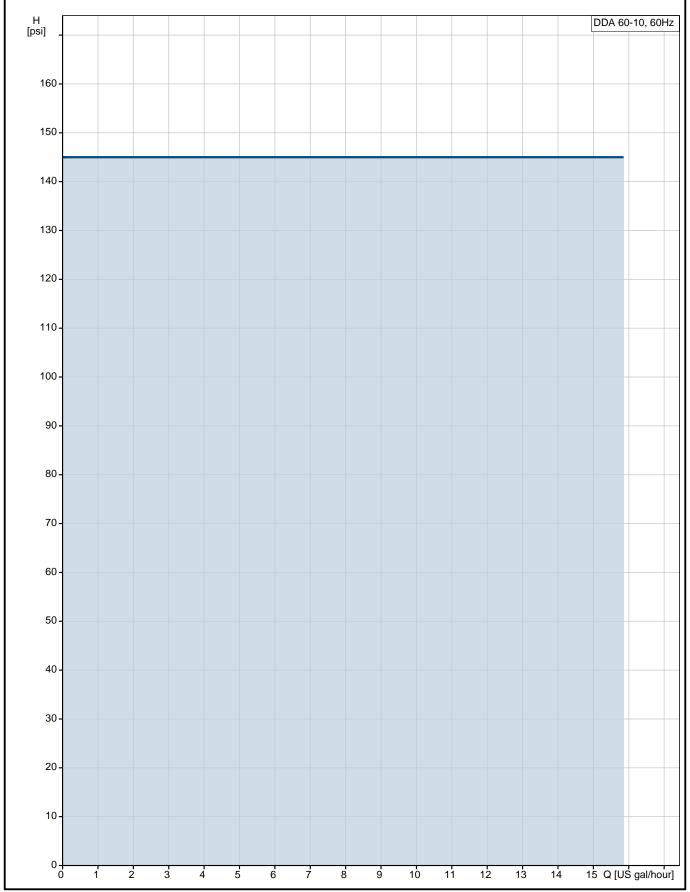
Others:

Net weight: 13.2 lb Gross weight: 15.4 lb COLOR: RED



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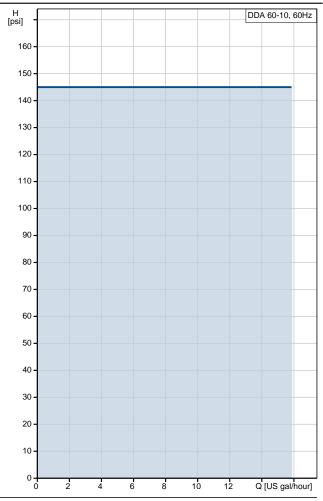
99159460 DDA 60-10 60 Hz

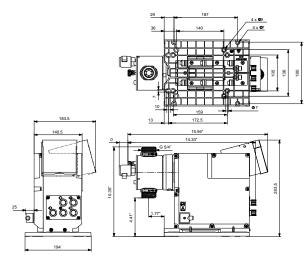




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Description	Value
General information:	
Product name:	DDA 60-10
Product No.:	99159460
EAN:	5712607842482
Technical:	
Type key:	DDA 60-10 AR-SS/T/SS-F-31A3A3B
Max. Flow:	15.85 US gal/hour
Max. flow in slow mode 50%:	7.925 US gal/hour
Max. flow in slow mode 25%:	3.963 US gal/hour
Min flow:	75 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 %:	2000 mPas
Maximum viscosity in slow mode 25 %:	3000 mPas
Accuracy of repeatability:	1 %
Materials:	**
Dosing head:	Stainless Steel 1.4435
Valve ball:	Stainless steel
Gasket:	PTFE
Installation:	1112
Range of ambient temperature:	32 113 °F
Maximum operating pressure:	145 psi
Installation set:	NO
Installation type:	No installation set
installation type.	Conn. threaded 3/4#NPTF
Pump inlet:	CodeA3 Conn. threaded 3/4#NPTF
Pump outlet:	CodeA3
Max. Suction lift during operation:	9.843 ft
Max. Suction lift during priming:	4.922 ft
Liquid:	Mata
Pumped liquid:	Water
Liquid temperature range:	32 122 °F
Liquid temperature during operation:	68 °F
Density:	62.29 lb/ft³
Electrical data:	20.11
Maximum power input - P1:	62 W
Main frequency:	60 Hz
Rated voltage:	1 x 100-240 V
Enclosure class (IEC 34-5):	IP65 / NEMA 4X
Length of cable:	4.922 ft
Type of cable plug:	USA, Canada 70A at 240V (35A/100V)
Inrush current:	for 2ms
Controls:	4.5
Control variant:	AR
Control panel:	FRONT-MOUNTED
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
Others:	
Net weight:	13.2 lb







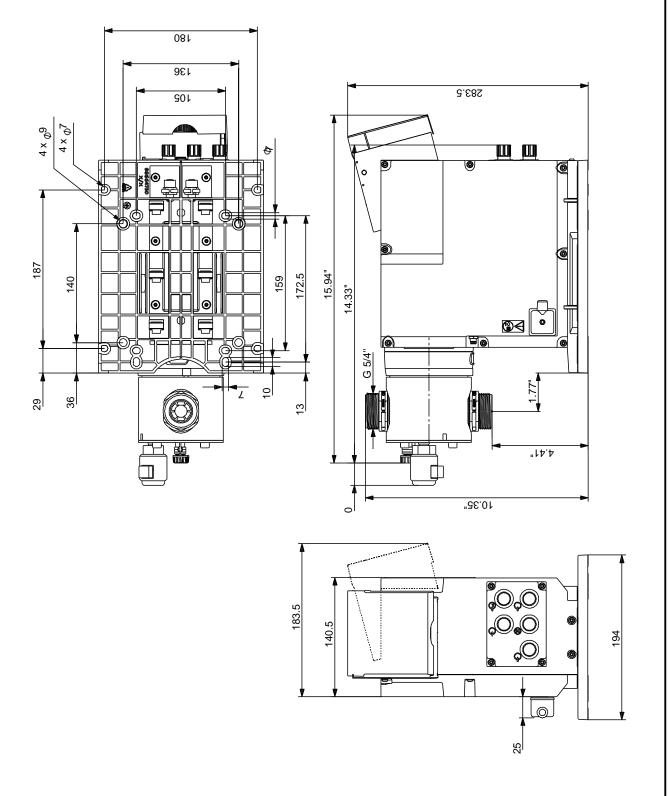
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Description	Value
Gross weight:	15.4 lb
COLOR:	RED



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99159460 DDA 60-10 60 Hz



Note! All units are in [mm] unless otherwise stated. Disclaimer: This simplified dimensional drawing does not show all details.