

Date: 11/30/2018

Position | Count | Description

1 DDA 30-4



Product photo could vary from the actual product

Product No.: 97722761

DDA 30-4 FCM-PV/T/C-F-31I004BG

The SMART Digital DDA is a compact positive displacement, diaphragm dosing pump with variable-speed drive (stepper 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.

discharge flow.

The click-stop mounting plate allows installation in three different positions without using any additional accessories. 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 sensor-based FlowControl (FC) system detects malfunctions directly in the dosing head and displays them in plain text in the alarm menu, e.g. air bubbles, line burst, overpressure. The integrated flow measurement function (only FCM) measures the actual flow and makes additional monitoring and control equipment redundant (accuracy of \pm 1,5 % of set value in case of trouble-free process). The measured flow is displayed and can be integrated in the process control, e.g. SCADA. Furthermore, the AutoFlowAdapt function (only FCM) automatically adjusts the pump speed according to the process conditions to maintain target flow even at e.g. varying backpressure or air bubbles foaming (degassing drive strategy).

The dosing head is composed of:

- Long lifetime and universal, chemically resistant full-PTFE diaphragm.
- Double ball valves for highest dosing accuracy.
- Deaeration valve for easy start-up.
- Pressure sensor.

Operation 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 ProfibusDP E-box).

Other features:

- Auto deaeration during pump standby to avoid breakdowns due to air-locking.
- Two SlowMode steps (anti-cavitation), 50 % (maximum flow: 3.963 US gal/hour) and 25 % (maximum flow: 1.981 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.



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Signal inputs/outputs:

- Input for pulse, analog 0/4-20mA, external stop.
- Input for low-level and empty-tank signal.
- Two potential-free output relays for max. 30 V AC/DC (configurable, e.g. alarm, stroke signal, pump dosing, timer etc.)
- Output analog 0/4-20mA.
- Fieldbus communication interface (GeniBus, also for additional Profibus DP E-box to retrofit).

Installation set includes:

- 2 pump connections (Hose 3/8x1/2" S).
- Foot valve (without level switch).
- Injection unit.
- 6 m PE discharge hose.
- 2 m PVC suction hose.
- 2 m PVC deaeration hose (4/6 mm).

Technical:

Type key: DDA 30-4 FCM-PV/T/C-F-31I004BG

Max. Flow: 7.925 US gal/hour Max. flow in slow mode 50%: 3.963 US gal/hour Max. flow in slow mode 25%: 1.981 US gal/hour

Min flow: 30.0 ml/h Turn-down ratio: 1:1000

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

Valve type: Standard
Maximum viscosity at 100 %: 150 mPas
Maximum viscosity in slow mode 50 %: 600 mPas

Maximum viscosity in slow mode 50 %: 600 mPas Maximum viscosity in slow mode 25 %: 1500 mPas

Accuracy of repeatability: 1 %

Materials:

Dosing head: PVDF (Polyvinylidene fluoride)

Valve ball: Ceramic Gasket: PTFE

Installation:

Range of ambient temperature: 32 .. 113 °F
Maximum operating pressure: 58 psi
Installation set: YES

Installation type: 3/8"x1/2" up to 60 l/h,10bar

Pump inlet: Hose 3/8x1/2" S
Pump outlet: Hose 3/8x1/2" S
Max. Suction lift during operation: 19.69 ft
Max. Suction lift during priming: 6.562 ft

Liquid:

Pumped liquid: Water
Liquid temperature range: 14 .. 113 °F
Liquid temperature during operation: 68 °F
Density: 62.29 lb/ft³

Electrical data:

Maximum power input - P1: 24 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: 25A at 230V for 2ms



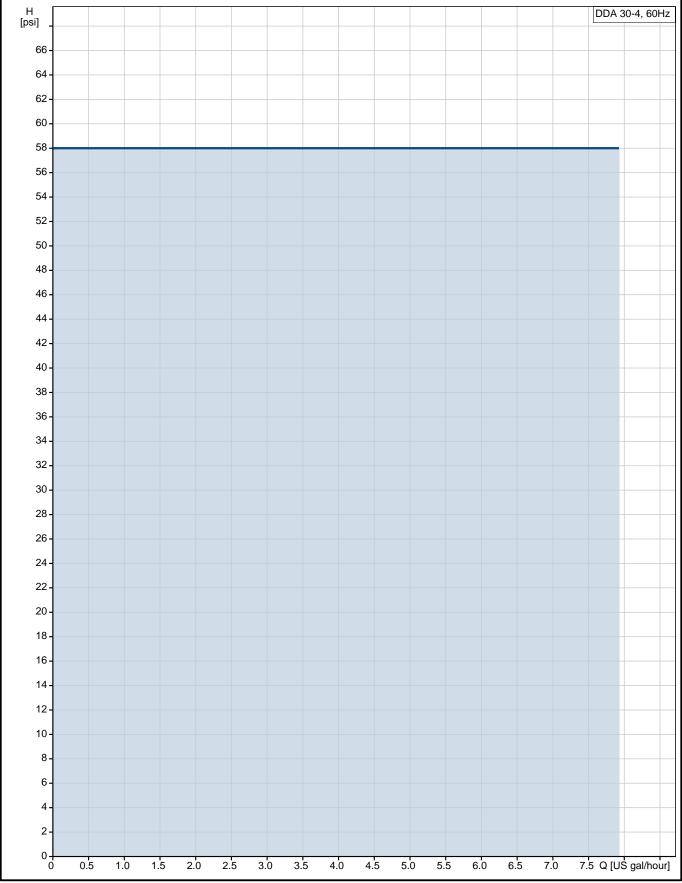
Date: 11/30/2018

Controls:				Date:	11/30/2018	
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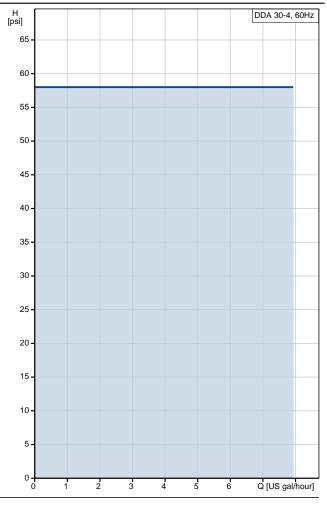
97722761 DDA 30-4 60 Hz

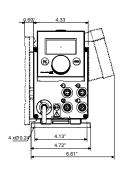


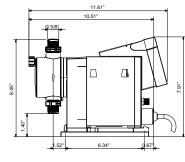


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Description Value General information: DDA 30-4 Product No.: 97722761 EAN: 5710622729542 Technical: DDA 30-4 Type key: DDA 30-4 FCM-PVT/C-F-311004BG FCM-PVT/C-F-311004BG Max. Flow: 7.925 US gal/hour Max. Flow in slow mode 50%: 3.963 US gal/hour Max. flow in slow mode 50%: 1.981 US gal/hour Min flow: 30.0 ml/h Turn-down ratio: 1.1000 Approvals on nameplate: CE,CSA-US,NSF61,RCM Valve type: Standard Maximum viscosity at 100 %: 150 mPas Maximum viscosity in slow mode 50 %: 600 mPas Maximum viscosity in slow mode 25 %: 1500 mPas Maximum viscosity in slow mode 25 %: 1500 mPas Maximum viscosity in slow mode 25 %: 1500 mPas Maximum viscosity in slow mode 25 %: 1500 mPas Maximum viscosity in slow mode 25 %: 1500 mPas Maximum viscosity in slow mode 25 %: 1500 mPas Maximum viscosity in slow mode 25 %: 1500 mPas		
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Installation type: Sample		•
Pump inlet: Hose 3/8x1/2" S Pump outlet: Hose 3/8x1/2" S Max. Suction lift during operation: 19.69 ft Max. Suction lift during priming: 6.562 ft Liquid: Pumped liquid: Water Liquid temperature range: 14 113 °F Liquid temperature during operation: 68 °F Density: 62.29 lb/ft³ Electrical data: Maximum power input - P1: 24 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: 25A at 230V for 2ms Control variant: FCM 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: 6.62 lb	Installation set:	
Pump outlet: Hose 3/8x1/2" S Max. Suction lift during operation: 19.69 ft Max. Suction lift during priming: 6.562 ft Liquid: Pumped liquid: Water Liquid temperature range: 14 113 °F Liquid temperature during operation: 68 °F Density: 62.29 lb/ft³ Electrical data: Maximum power input - P1: 24 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: 25A at 230V for 2ms Control variant: FCM Control panel: FRONT-MOUNTED Level control: YES Analog input: 0/4-20 mA Pulse control: YES Analog output: 0/4-20 mA Output relays: 2 Bus communication: YES Others: Net weight: 6.62 lb	Installation type:	
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Max. Suction lift during priming: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Belectrical data: Maximum power input - P1: Main frequency: Rated voltage: Enclosure class (IEC 34-5): Length of cable: Type of cable plug: Inrush current: Controls: Control variant: Control panel: Level control: Analog input: Panalog output: Analog output: Others: Net weight: Others: Net weight: Others: Net weight: Water UA 113 °F 14 113 °F 16 .62 lb	Pump outlet:	Hose 3/8x1/2" S
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Liquid temperature during operation: 68 °F Density: 62.29 lb/ft³ Electrical data: Maximum power input - P1: 24 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: 25A at 230V for 2ms Controls: Control variant: FCM 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: 6.62 lb	Pumped liquid:	Water
Density: 62.29 lb/ft³ Electrical data: Maximum power input - P1: 24 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: 25A at 230V for 2ms Controls: Control variant: FCM 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: 6.62 lb	Liquid temperature range:	14 113 °F
Electrical data: Maximum power input - P1: 24 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: 25A at 230V for 2ms Controls: Control variant: FCM Control panel: FRONT-MOUNTED Level control: YES Analog input: 0/4-20 mA Pulse control: YES Analog output: 0/4-20 mA Output relays: 2 Bus communication: YES Others: Net weight: 6.62 lb	Liquid temperature during operation:	68 °F
Maximum power input - P1: 24 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: 25A at 230V for 2ms Controls: Control variant: FCM 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: 6.62 lb	Density:	62.29 lb/ft ³
Main frequency:60 HzRated voltage:1 x 100-240 VEnclosure class (IEC 34-5):IP65 / NEMA 4XLength of cable:4.922 ftType of cable plug:USA, CanadaInrush current:25A at 230V for 2msControls:Control variant:FCMControl panel:FRONT-MOUNTEDLevel control:YESAnalog input:0/4-20 mAPulse control:YESExt. Stop input:YESAnalog output:0/4-20 mAOutput relays:2Bus communication:YESOthers:Net weight:6.62 lb	Electrical data:	
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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: 25A at 230V for 2ms Controls: Control variant: FCM 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: 6.62 lb	Main frequency:	60 Hz
Length of cable: Type of cable plug: USA, Canada Inrush current: 25A at 230V for 2ms Controls: Control variant: FCM Control panel: FRONT-MOUNTED Level control: YES Analog input: O/4-20 mA Pulse control: YES Ext. Stop input: YES Analog output: O/4-20 mA Output relays: Bus communication: YES Others: Net weight: 6.62 lb		1 x 100-240 V
Length of cable: Type of cable plug: USA, Canada Inrush current: 25A at 230V for 2ms Controls: Control variant: FCM Control panel: FRONT-MOUNTED Level control: YES Analog input: O/4-20 mA Pulse control: YES Ext. Stop input: YES Analog output: O/4-20 mA Output relays: Bus communication: YES Others: Net weight: 6.62 lb	_	IP65 / NEMA 4X
Type of cable plug: Inrush current: 25A at 230V for 2ms Controls: Control variant: Control panel: Evel control: Analog input: Pulse control: Ext. Stop input: Analog output: Output relays: Bus communication: Others: Net weight: USA, Canada USA, Canada USA, Canada USA, Canada USA, Canada PCSA FCM FCM FRONT-MOUNTED YES Analog na O/4-20 mA O/4-20 mA O/4-20 mA O/4-20 mA Others: Net weight: 6.62 lb		
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Controls: Control variant: Control panel: Evel control: Analog input: Pulse control: Ext. Stop input: Analog output: Output relays: Bus communication: Others: Net weight: FCM FCM FCM FCM FCM FRONT-MOUNTED YES FRONT-MOUNTED YES 0/4-20 mA O/4-20 mA		·
Control variant: Control panel: Evel control: Analog input: Pulse control: Ext. Stop input: Analog output: O/4-20 mA Output relays: Bus communication: Others: Net weight: FCM FRONT-MOUNTED YES PRONT-MOUNTED YES 0/4-20 mA O/4-20 mA O/4-20 mA O/4-20 mA O/4-20 mA O/4-20 mA Odiput relays: 2 Bus communication: YES Others: Net weight: 6.62 lb		
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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: 6.62 lb		
Pulse control: Ext. Stop input: Analog output: Output relays: Bus communication: Others: Net weight: YES YES 0/4-20 mA 0/4-20 mA OFFICIAL STOPP S		
Ext. Stop input: Analog output: Output relays: Bus communication: Others: Net weight: YES O/4-20 mA O/		
Analog output: 0/4-20 mA Output relays: 2 Bus communication: YES Others: Net weight: 6.62 lb		
Output relays: 2 Bus communication: YES Others: Net weight: 6.62 lb		
Bus communication: YES Others: Net weight: 6.62 lb		
Others: Net weight: 6.62 lb		
Net weight: 6.62 lb		YES
		0.00 !!
Gross weight: 8.82 lb		
	Gross weight:	8.82 lb









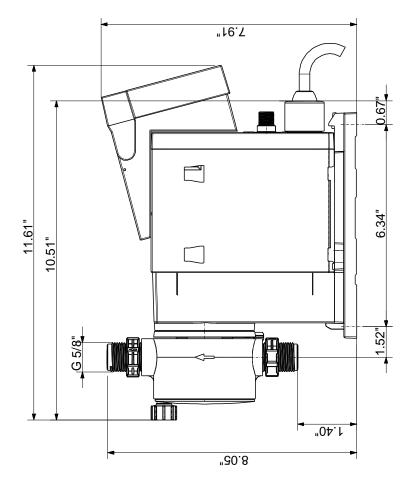
Date: 11/30/2018

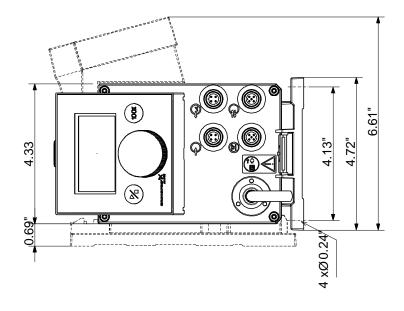
Description	Value
COLOR:	RED
Custom tariff no.:	8413.50.0050



Date: 11/30/2018

97722761 DDA 30-4 60 Hz





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