

Date: 11/29/2018

Position | Count | Description

1 DDA 30-4



Product photo could vary from the actual product

Product No.: 97722689

DDA 30-4 AR-PV/V/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 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.

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.

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:



Date: 11/29/2018

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- 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 AR-PV/V/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 25 %: 1500 mPas

Accuracy of repeatability: 1 %

Materials:

Dosing head: PVDF (Polyvinylidene fluoride)

Valve ball: Ceramic Gasket: FKM

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

Controls:

Control variant:

Level control:

AR

Level control:

YES

Analog input:

O/4-20 mA

Pulse control:

Ext. Stop input:

Analog output:

O/4-20 mA



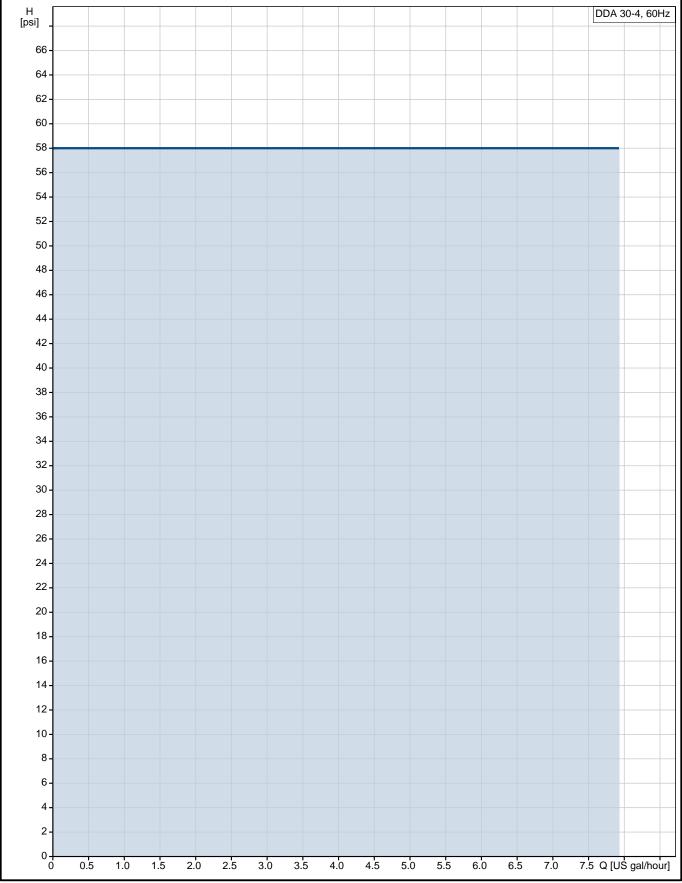
Date: 11/29/2018

			Date:	11/29/2018	
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		Output relays:	2		
		Bus communication:	YES		
		Others:			
		Net weight:	6.62 lb		
		Gross weight:	8.82 lb		
		Gross weight: COLOR:	RED		
		Custom tariff no	9412 FO 00FO		
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Date: 11/29/2018

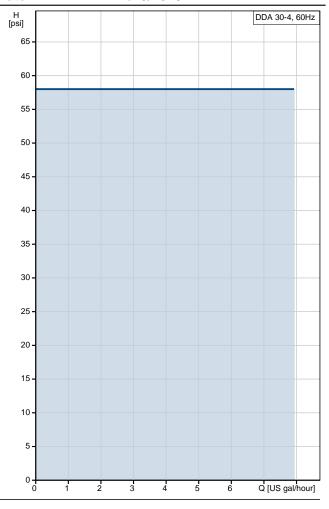
97722689 DDA 30-4 60 Hz

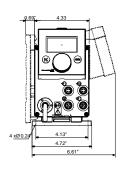


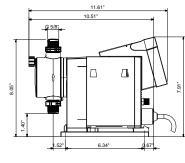


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Description Value General Information: Product name: Product name: 97722689 EAN: 5710622728521 Technical: DDA 30-4 Type key: AR-PVIVIC-F-311004BG Max. Flow: 3.963 US gal/hour Max. flow in slow mode 50%: 3.963 US gal/hour Max. flow in slow mode 25%: 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 %: 1500 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 Maximum viscosity in slow mode 25 %: 1500 mPas		
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Liquid: Pumped liquid: Uquid temperature range: Liquid temperature during operation: Density: Electrical data: Maximum power input - P1: Rated voltage: Enclosure class (IEC 34-5): Lingth of cable: Type of cable plug: USA, Canada Inrush current: Controls: Control variant: Level control: Analog input: Analog output: Analog output: Others: Others: Net weight: Net weight: Density: Water 14 113 °F 16 21 W Water 14 113 °F 16 113 °F 16 21 W Water 14 113 °F 16 113 °F 16 21 W Water 14 113 °F 16 113 °F 16 21 W Water 14 113 °F 16 21 W Puls of 2. 29 lb/ft³ Puls of 2. 29 lb/		
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Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Maximum power input - P1: Rated voltage: Enclosure class (IEC 34-5): Length of cable: Type of cable plug: USA, Canada Inrush current: Controls: Control variant: Control panel: Level control: AR Control: Analog input: Pass Analog output: Analog output: Output relays: Bus communication: VES Others: Net weight: 68 °F 69 AV AV AV AV AV AP AP AP AP AP	•	Water
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: AR 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	· · ·	
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: 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: 6.62 lb		
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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: 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: 6.62 lb		62.29 ID/It 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:ARControl 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		
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: 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: 6.62 lb		
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: 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: 6.62 lb		
Length of cable: Type of cable plug: USA, Canada Inrush current: 25A at 230V for 2ms Controls: 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: O/4-20 mA Output relays: Bus communication: YES Others: Net weight: 6.62 lb		
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Inrush current: 25A at 230V for 2ms Controls: 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: 6.62 lb	Length of cable:	4.922 ft
Controls: Control variant: Control panel: Evel control: AR 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: 2 Bus communication: YES Others: Net weight: 6.62 lb	Type of cable plug:	USA, Canada
Control variant: Control panel: Evel control: AR FRONT-MOUNTED Level control: YES Analog input: O/4-20 mA Pulse control: Ext. Stop input: Analog output: O/4-20 mA Output relays: Bus communication: YES Others: Net weight: AR 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	Inrush current:	25A at 230V for 2ms
Control panel: Level control: Analog input: Pulse control: Ext. Stop input: Analog output: O/4-20 mA YES Ext. Stop input: YES Analog output: O/4-20 mA Output relays: 2 Bus communication: YES Others: Net weight: 6.62 lb	Controls:	
Level control: Analog input: O/4-20 mA Pulse control: YES Ext. Stop input: YES Analog output: O/4-20 mA Output relays: 2 Bus communication: YES Others: Net weight: 6.62 lb	Control variant:	AR
Level control: Analog input: O/4-20 mA Pulse control: YES Ext. Stop input: YES Analog output: O/4-20 mA Output relays: 2 Bus communication: YES Others: Net weight: 6.62 lb	Control panel:	FRONT-MOUNTED
Pulse control: Ext. Stop input: Analog output: Output relays: Bus communication: Others: Net weight: YES O/4-20 mA O/4-20 m		YES
Pulse control: Ext. Stop input: Analog output: Output relays: Bus communication: Others: Net weight: YES O/4-20 mA O/4-20 m	Analog input:	0/4-20 mA
Ext. Stop input: Analog output: O/4-20 mA Output relays: Bus communication: Others: Net weight: YES O6.62 lb		
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	<u> </u>	
Others: Net weight: 6.62 lb		
Net weight: 6.62 lb		0
		6 62 lh
0.02 ID		
	O1035 WEIGHT.	U.UZ III









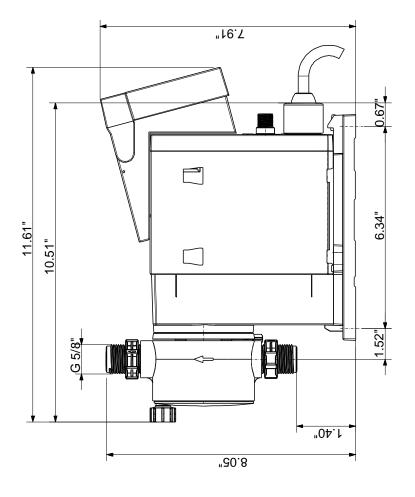
Date: 11/29/2018

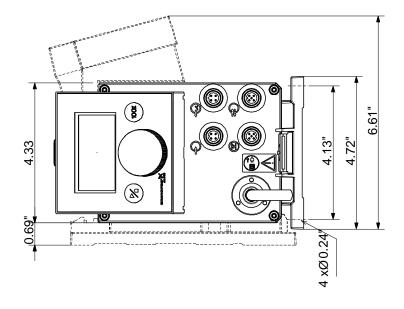
Description	Value
COLOR:	RED
Custom tariff no.:	8413.50.0050



Date: 11/29/2018

97722689 DDA 30-4 60 Hz





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