

06/02/2020

Qty. | Description

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DDA 120-7

Note! Product picture may differ from actual product

Product No.: 99159391 DDA 120-7 FCM-PVC/E/C-F-31U3U3

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 sensor-based FlowControl (FCM) 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 measures the actual flow and makes additional monitoring and control equipment redundant (accuracy of ± 1 % 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 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 double PTFE diaphragm.
- Ball valves for highest dosing accuracy.
- Deaeration valve for easy startup.
- Pressure sensor.

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: 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.



GRUNDI		Date:	06/02/2020
Description			
 Two potential-free c dosing, timer etc.) Output analog 0/4-2 	20mA.		onfigurable, e.g. alarm, stroke signal, pump of the Grundfos CIU fieldbus converter).
Ocurturelas			
Controls: Control variant:	FCM		
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 40 °C		
Selected liquid temperature	e: 20 °C		
Density:	998.2 kg/m³		
Technical:			
Type key:	DDA 120-7 FCM	-PVC/E/C-F-31U3	U3
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,NSI	-61.EAC.RCM	
Valve type:	Standard		
Maximum viscosity at 100	%: 100 mPas		
Maximum viscosity in slow		as	
Maximum viscosity in slow			
Accuracy of repeatability:			
Materials:			
Dosing head:	PVC (Polyvinyl c	hloride)	
Valve ball:	Ceramic	7	
Gasket:	EPDM		
Installation:			
Range of ambient tempera	ture: 0 45 °C		
Maximum operating pressu	ıre: 7 bar		
Installation set:	NO		
Installation type:	No installation se	et	
Pump inlet:	Conn.pack U3 (h	ose ID.19mm &	
Pump outlet:		ose ID.19mm &	
Max. Suction lift during ope	• •		
Max. Suction lift during prin			
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		



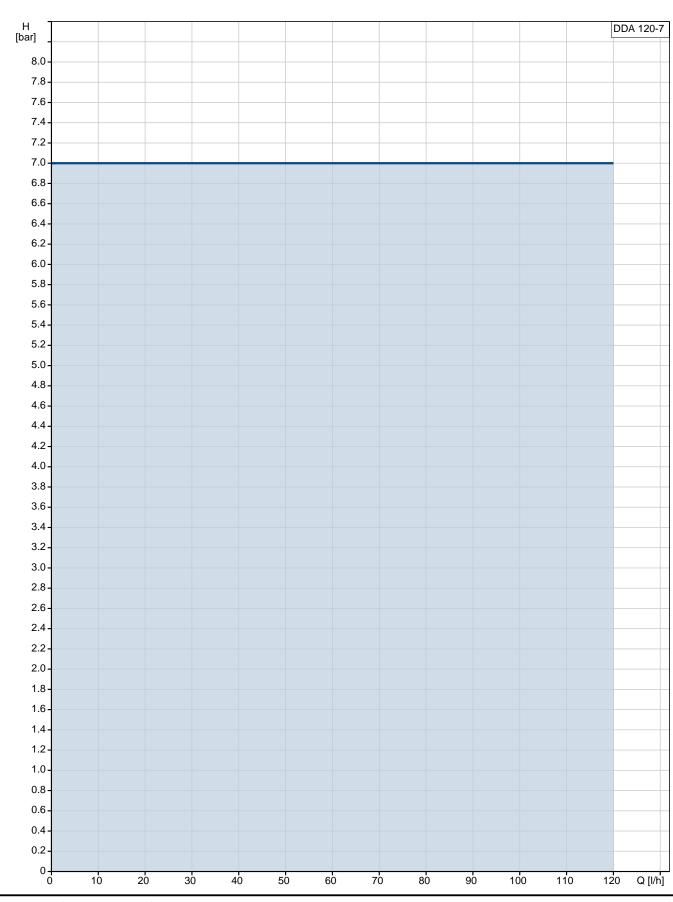
Company name: Created by: Phone:

		Date:	06/02/2020		
Description					
Inrush current:	70A at 240V (35	70A at 240V (35A/100V) for 2ms			
Others:					
Net weight:	6 kg				
Gross weight:	7 kg				
Color:	RED				
Country of origin:	FR				
Custom tariff no .:	84135040				



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99159391 DDA 120-7





Value

DDA 120-7

5712607841799

5712607841799

FCM-PVC/E/C-F-31U3U3

3.803,00 GBP

DDA 120-7

120 l/h

99159391

Description

Product No:

Technical:

Type key:

Max. Flow:

Price:

EAN number:

General information: Product name:

Company name: Created by: Phone:

0

20

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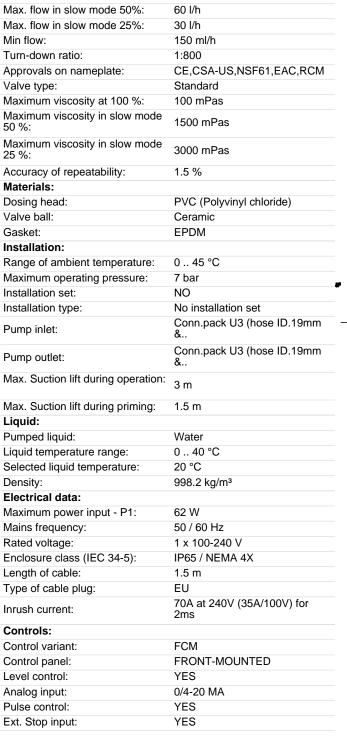
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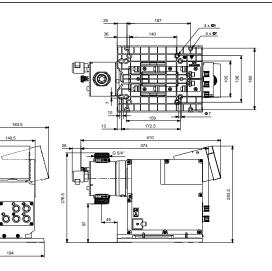
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100

Q [l/h]

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		Date:	06/02/2020	
Description	Value			
Analog output:	0/4-20 MA			
Output relays:	2			
Bus communication:	YES			
Others:				
Net weight:	6 kg			
Gross weight:	7 kg			
Color:	RED			
Country of origin:	FR			
Custom tariff no .:	84135040			

