

20/02/2020

Qty. | Description

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DDA 12-10



Note! Product picture may differ from actual product

Product No.: 97722083 DDA 12-10 FC-PVC/E/C-F-31I002F

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.

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: 6 l/h) and 25 % (maximum flow: 3 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:

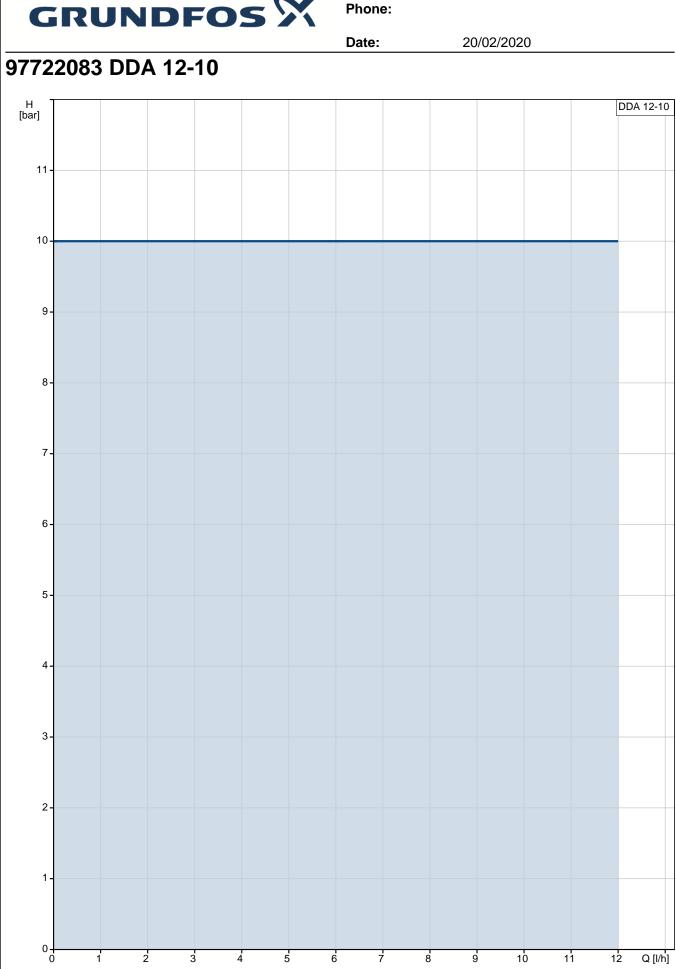


		Date:	20/02/2020
Description			
- Input for pulse, analog 0/-		p.	
- Input for low-level and en			
 Two potential-free output timer etc.) 	relays for max. 30 \	AC/DC (config	urable, e.g. alarm, stroke signal, pump dosi
 Output analog 0/4-20mA. 			
- Fieldbus communication	interface (GeniBus,	also for addition	al Profibus DP E-box to retrofit).
Installation set includes:			
- 2 pump connections (Hos			
- Foot valve (without level :	switch).		
- Injection unit.			
 6 m PE discharge hose. 2 m PVC suction hose. 			
 2 m PVC socion nose. 2 m PVC deaeration hose 	e (4/6 mm)		
	e (4/0 mm).		
Technical:			F
Type key: Max. Flow:	DDA 12-10 FC-PV 12 l/h	5/ E/ C-F-3 11002	1
Max. flow in slow mode 50%:	6 l/h		
Max. flow in slow mode 30%.	3 l/h		
Min flow:	12.0 ml/h		
Turn-down ratio:	1:1000		
Approvals on nameplate:	CE,CSA-US,NSF6	1,EAC,RCM	
Valve type:	Standard		
Maximum viscosity at 100 %:	300 mPas		
Maximum viscosity in slow mode			
Maximum viscosity in slow mode			
Accuracy of repeatability:	1 %		
Materials:			
Dosing head:	PVC (Polyvinyl chlo	oride)	
Valve ball:	Ceramic		
Gasket:	EPDM		
Installation:			
Range of ambient temperature:			
Maximum operating pressure:	10 bar		
Installation set:	YES	12 hor	
Installation type: Pump inlet:	9/12 mm up to 60 l/ Hose 9/12 mm 6	n, 15 Dai	
Pump outlet:	Hose 9/12 mm 6		
Max. Suction lift during operation			
Max. Suction lift during priming:			
Liquid:			
Pumped liquid:	Water		
Liquid temperature range:	-10 45 °C		
Selected liquid temperature:	20 °C		
Density:	998.2 kg/m³		
Electrical data:			
Maximum power input - P1:	24 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:			



Controls: FC 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: YES Net weight: 2 kg Gross weight: 3 kg Color: RED Country of origin: FR				Date:	20/02/2020	
Control variant:FCLevel control:YESAnalog input:0/4-20 MAPulse control:YESExt. Stop input:YESAnalog output:0/4-20 MAOutput relays:2Bus communication:YESOthers:Net weight:2 kgGross weight:3 kgColor:REDCountry of origin:FR	Qty.	Description				
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: 2 kg Gross weight: 3 kg Color: RED Country of origin: FR		Controls:				
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: 2 kg Gross weight: 3 kg Color: RED Country of origin: FR		Control variant:	FC			
Analog input:0/4-20 MAPulse control:YESExt. Stop input:YESAnalog output:0/4-20 MAOutput relays:2Bus communication:YESOthers:Net weight:2 kgGross weight:3 kgColor:REDCountry of origin:FR		Level control:	YES			
Pulse control:YESExt. Stop input:YESAnalog output:0/4-20 MAOutput relays:2Bus communication:YESOthers:Net weight:2 kgGross weight:3 kgColor:REDCountry of origin:FR		Analog input:	0/4-20 MA			
Ext. Stop input:YESAnalog output:0/4-20 MAOutput relays:2Bus communication:YESOthers:Net weight:2 kgGross weight:3 kgColor:REDCountry of origin:FR			YES			
Analog output: 0/4-20 MA Output relays: 2 Bus communication: YES Others: Net weight: 2 kg Gross weight: 3 kg Color: RED Country of origin: FR		Ext. Stop input:	YES			
Output relays:2Bus communication:YESOthers:Net weight:2 kgGross weight:3 kgColor:REDCountry of origin:FR			0/4-20 MA			
Bus communication: YES Others:			2			
Net weight:2 kgGross weight:3 kgColor:REDCountry of origin:FR			YES			
Gross weight:3 kgColor:REDCountry of origin:FR		Others:				
Gross weight:3 kgColor:REDCountry of origin:FR		Net weight:	2 kg			
Color: RED Country of origin: FR						
		Country of origin:	FR			
		Custom tariff no.:	84135040			







		Date:	20/02/2020	
Description	Value	H [bar]		DDA 12-10
General information:				
Product name:	DDA 12-10	11 -		
Product No:	97722083			
EAN number:	5710622722253			
	5710622722253	10-		
Price:				
	2.281,00 GBP			
Technical:	554.40.40	9-		
Type key:	DDA 12-10 FC-PVC/E/C-F-31I002F			
		8-		
Max. Flow:	12 l/h			
Max. flow in slow mode 50%:	6 l/h			
Max. flow in slow mode 25%:	3 l/h	7-		
Min flow:	12.0 ml/h			
Turn-down ratio:	1:1000			
Approvals on nameplate:	CE,CSA-US,NSF61,EAC,RCM	6-		
Valve type:	Standard			
Maximum viscosity at 100 %:	300 mPas	5-		
Maximum viscosity in slow mode 50 %:	1300 mPas			
Maximum viscosity in slow mode 25 %:	2500 mPas	4 -		
Accuracy of repeatability:	1 %	3-		
Materials:	1 /0	3		
Dosing head:	$P_{1}^{1}(C_{1}(P_{0}))$			
-	PVC (Polyvinyl chloride)	2		
Valve ball:	Ceramic			
Gasket:	EPDM			
Installation:		1-		
Range of ambient temperature:	0 45 °C			
Maximum operating pressure:	10 bar	*		
Installation set:	YES		2 3 4 5 6 7	8 9 10 11 Q [l/h
Installation type:	9/12 mm up to 60 l/h,13 bar			
Pump inlet:	Hose 9/12 mm 6			280
Pump outlet:	Hose 9/12 mm 6		•	251
Max. Suction lift during operation:	6 m	17.5 110	<u>G 5/8"</u>	
Max. Suction lift during priming:	3 m			
Liquid:	•		┘ ⋈ ∖∖ │ ╘ ┎╌╤╖┍═	╶╴[┶]─────┓ \ \\
Pumped liquid:	Water		◉║∖∖ │ ┤ ↓║ ╴	
Liquid temperature range:	-10 45 °C			5
Selected liquid temperature:	20 °C	j j		
			ĭ ⊘] <u></u> , [●] .	
Density:	998.2 kg/m³			
Electrical data:	0.4.144	4 <u>xØ 6</u> 105		161 17
Maximum power input - P1:	24 W	120	3	
Mains frequency:	50 / 60 Hz	P	1	
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:	25A at 230V for 2ms			
Controls:				
Control variant:	FC			
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			

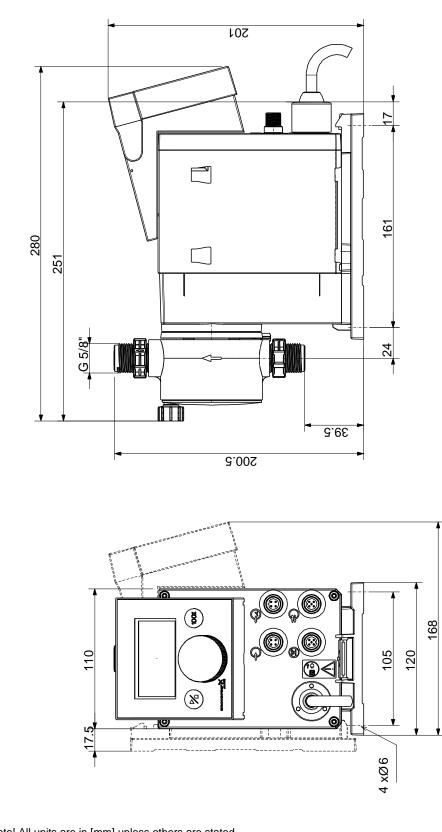


		Date:	20/02/2020
Description	Value		
Others:			
Net weight:	2 kg		
Gross weight:	3 kg		
Color:	RED		
Country of origin:	FR		
Custom tariff no .:	84135040		



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