

30/01/2020

Qty. | Description

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DDA 12-10



Note! Product picture may differ from actual product

Product No.: 97722132 DDA 12-10 FCM-PV/V/C-F-31U2U2F

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:



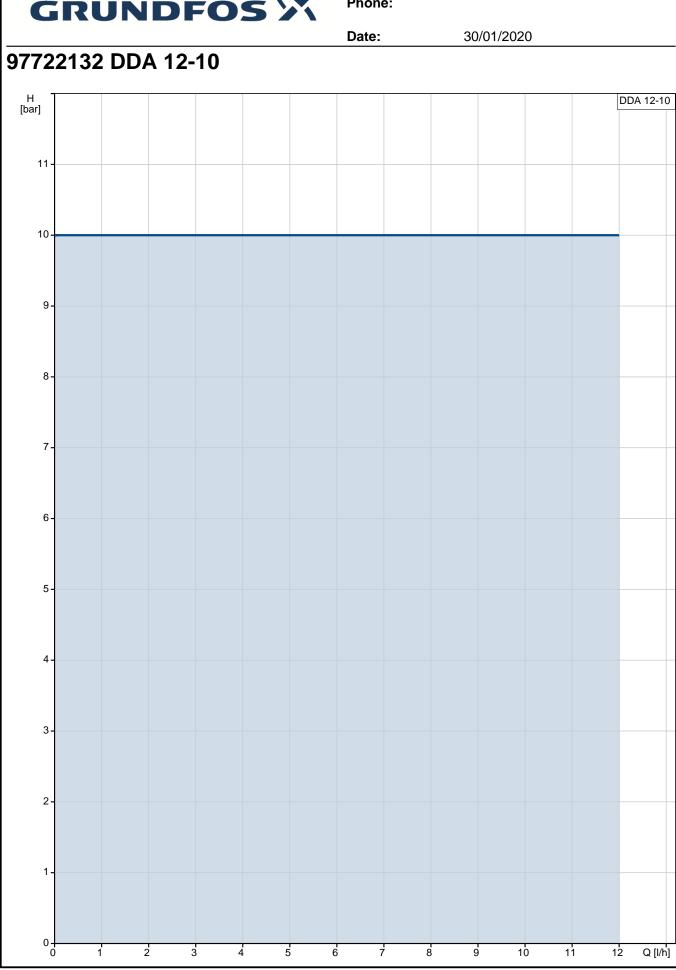
			Date:	30/01/2020
	Description			
	 Input for pulse, analog 0/4 			
	 Input for low-level and em 			
		relays for max. 30 V A	C/DC (confi	igurable, e.g. alarm, stroke signal, pump dos
	timer etc.)			
	- Output analog 0/4-20mA.			
	 Fieldbus communication i 	nterface (GeniBus, also	o for additic	onal Profibus DP E-box to retrofit).
-	Technical:			
-	Type key:	DDA 12-10 FCM-PV/V	//C-F-31U2	U2F
	Max. Flow:	12 l/h		
	Max. flow in slow mode 50%:	6 l/h		
	Max. flow in slow mode 25%:	3 l/h		
	Min flow:	12.0 ml/h		
1 -	Turn-down ratio:	1:1000		
	Approvals on nameplate:	CE,CSA-US,NSF61,E		
	Valve type:	Standard		
	Maximum viscosity at 100 %:	300 mPas		
	Maximum viscosity in slow mode			
	Maximum viscosity in slow mode			
ľ	Accuracy of repeatability:	1 %		
1	Materials:			
[Dosing head:	PVDF (Polyvinylidene	fluoride)	
1	Valve ball:	Ceramic		
0	Gasket:	FKM		
	Installation:			
	Range of ambient temperature:	0 45 °C		
	Maximum operating pressure:	10 bar		
	Installation set:	NO		
	Installation type:	No installation set		
	Pump inlet:	4/6, 6/9, 6/12, 9/12 mr	n	
	Pump outlet:	4/6, 6/9, 6/12, 9/12 mr		
	Max. Suction lift during operation			
	Max. Suction lift during operation Max. Suction lift during priming:			
'	Max. Suction int during prinning.	5111		
	Liquid:			
	Pumped liquid:	Water		
	Liquid temperature range:	-10 45 °C		
	Selected liquid temperature:	20 °C		
1	Density:	998.2 kg/m³		
	Electrical data:			
h	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:	25A at 230V for 2ms		
1		20/10/2007 10/2003		
	Controls:			
	Control variant:	FCM		
1	Level control:	YES		
1	Analog input:	0/4-20 MA		
	Pulse control:	YES		
	Ext. Stop input:	YES		
	Analog output:	0/4-20 MA		
	Output relays:	2		



Company name: Created by:

RUND				
		Date:	30/01/2020	
Description Bus communication:	YES			
	TES			
Others:				
Net weight:	3 kg			
Gross weight: Color:	4 kg RED			







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6, 6/9, 6/12, 9/12 mm							
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Date:30/01/2020DescriptionValueNet weight:3 kgGross weight:4 kgColor:RED



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