

04/02/2020

Qty. | Description

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DDA 17-7

Note! Product picture may differ from actual product

Product No.: 97722228 DDA 17-7 FCM-PVC/T/C-F-32U2U2F

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: 8.5 l/h) and 25 % (maximum flow: 4.25 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:



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Description				
 Input for pulse, analog 0/2 	-20mA. external st	OD.		
 Input for low-level and em 		- F -		
•		AC/DC (config	urable, e.g. alarm, stroke signal, pump	o dosina.
timer etc.)	,			
- Output analog 0/4-20mA.				
	nterface (GeniBus,	also for addition	al Profibus DP E-box to retrofit).	
Technical:				
Type key:	DDA 17-7 FCM-P\	/C/T/C-F-32U2L	2F	
Max. Flow:	17 l/h			
Max. flow in slow mode 50%:	8.5 l/h			
Max. flow in slow mode 25%:	4.25 l/h			
Min flow:	17.0 ml/h			
Turn-down ratio:	1:1000			
Approvals on nameplate:	CE,CSA-US,NSF6	1,EAC,RCM		
Valve type:	Spring-Loaded (H)			
Maximum viscosity at 100 %:	500 mPas	,		
Maximum viscosity in slow mode		S		
Maximum viscosity in slow mode				
Accuracy of repeatability:	1 %			
Materials:				
Dosing head:	PVC (Polyvinyl chl	oride)		
/alve ball:	Ceramic	,		
Basket:	PTFE			
nstallation:				
ange of ambient temperature:	045 °C			
Aaximum operating pressure:	7 bar			
istallation set:	NO			
nstallation type:	No installation set			
Pump inlet:	4/6, 6/9, 6/12, 9/12	mm		
Pump outlet:	4/6, 6/9, 6/12, 9/12			
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/m ³			
-	550.2 Ng/III-			
Electrical data:	24.14/			
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 2n	ns		
Controls:				
Control variant:	FCM			
Level control:	YES			
	0/4-20 MA			
Analog input:				
Pulse control:	YES			
Pulse control:	YES YES			
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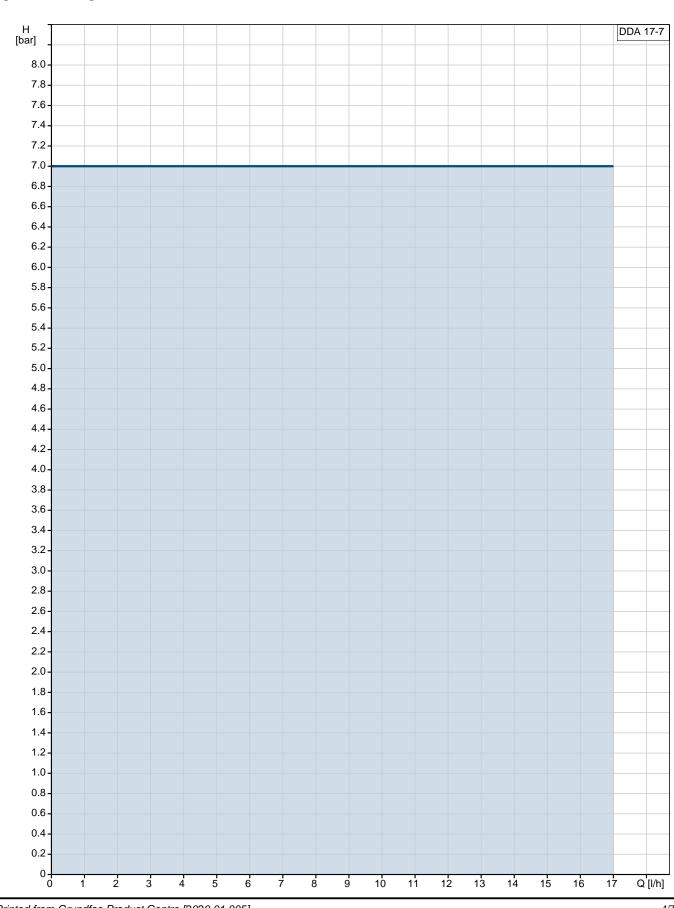
Company name: Created by:

GRUNDI	FOS 🔊	Created by: Phone:		
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Description				
Bus communication:	YES			
Others:				
Net weight: Gross weight:	2 kg			
Color:	3 kg RED			



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		Date:	04/02	2/2020	
Description	Value	H [bar]			DDA 17-7
General information:		- · · · -			
Product name:	DDA 17-7	-			
Product No:	97722228	7.5 -			
EAN number:	5710622723717				
	5710622723717	7.0			
Technical:		6.5 -			
Type key:	DDA 17-7 FCM-PVC/T/C-F-32U2U2F	6.0 -			
Max. Flow:	17 l/h	0.0 -			
Max. flow in slow mode 50%:	8.5 l/h	5.5 -			
Max. flow in slow mode 25%:	4.25 l/h				
Min flow:	17.0 ml/h	5.0 -			
Turn-down ratio:	1:1000				
	CE,CSA-US,NSF61,EAC,RCM	4.5 -			
Approvals on nameplate:		-			
Valve type:	Spring-Loaded (HV-version)	4.0 -			
Maximum viscosity at 100 %:	500 mPas	-			
Maximum viscosity in slow mode 50 %:	1300 mPas	3.5 -			
Maximum viscosity in slow mode 25 %:	2000 mPas	3.0 -			
Accuracy of repeatability:	1 %	2.5 -			
Materials:					
Dosing head:	PVC (Polyvinyl chloride)	2.0 -			
Valve ball:	Ceramic				
Gasket:	PTFE	1.5 -			
Installation:		-			
Range of ambient temperature:	0 45 °C	1.0 -			
Maximum operating pressure:	7 bar	-			
Installation set:	NO	0.5 -			
Installation type:	No installation set	-			
Pump inlet:	4/6, 6/9, 6/12, 9/12 mm	- 0 	2 4 6	8 10 12	14 16 Q [l/h
Pump outlet:	4/6, 6/9, 6/12, 9/12 mm		0	0 10 12	
Max. Suction lift during operation:	6 m				+
Max. Suction lift during priming:	3 m			G 5/8"	
Liquid:					
Pumped liquid:	Water		J∣∎∖∖ ∣		—N\ \
Liquid temperature range:	-10 45 °C	- (∥⊗()	Θ		
Selected liquid temperature:	20 °C		300.5		58
Density:	998.2 kg/m ³				
Electrical data:	998.2 kg/m²				
	24 \\				
Maximum power input - P1:	24 W	4 xØ 6 105		24 161	17 -
Mains frequency:	50 / 60 Hz	120	68		
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:	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				
BUS COMMUNICATION	150				



DescriptionValueNet weight:2 kgGross weight:3 kgColor:RED



Date:

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