

04/02/2020

Qty. | Description

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**DDA 17-7** 

Note! Product picture may differ from actual product

Product No.: 97722232 DDA 17-7 FCM-PV/E/C-F-32U2U2FG

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					
	<ul> <li>Input for pulse, analog 0/4-20mA, external stop.</li> <li>Input for low-level and empty-tank signal.</li> <li>Two potential-free output relays for max. 30 V AC/DC (configurable, e.g. alarm, stroke signal, pump dosing timer etc.)</li> </ul>					
	<ul> <li>Output analog 0/4-20mA.</li> <li>Fieldbus communication interface (GeniBus, also for additional Profibus DP E-box to retrofit).</li> </ul>					
_		•				
	<b>echnical:</b> ype key:	DDA 17-7 FCM-P	//E/C-E-32U2U2	FG		
	Jax. Flow:	17 l/h	72/01 020202			
	lax. flow in slow mode 50%:	8.5 l/h				
N	lax. flow in slow mode 25%:	4.25 l/h				
	/lin flow:	17.0 ml/h				
	urn-down ratio:	1:1000				
	opprovals on nameplate:	CE,CSA-US,NSF6				
	/alve type:	Spring-Loaded (H)	/-version)			
	Aximum viscosity at 100 %:	500 mPas				
	laximum viscosity in slow mode					
	Maximum viscosity in slow mode Accuracy of repeatability:	e 25 %: 2000 mPa 1 %	S			
	laterials:					
	Dosing head:	PVDF (Polyvinylide	ene fluoride)			
	/alve ball:	Ceramic				
Ģ	Basket:	EPDM				
	nstallation:					
	Range of ambient temperature:	0 45 °C				
	Aaximum operating pressure:	7 bar				
	nstallation set:	NO				
	nstallation type:	No installation set				
	Pump inlet:	4/6, 6/9, 6/12, 9/12				
	Pump outlet:	4/6, 6/9, 6/12, 9/12	2 mm			
	Nax. Suction lift during operation					
	Aax. Suction lift during priming:	3 m				
	iquid:					
	Pumped liquid:	Water				
	iquid temperature range:	-10 45 °C				
	Selected liquid temperature:	20 °C 998.2 kg/m³				
	Density:	996.2 Kg/IIIs				
	Electrical data:					
	/laximum power input - P1:	24 W				
	lains frequency:	50 / 60 Hz				
	Rated voltage:	1 x 100-240 V				
	Inclosure class (IEC 34-5):	IP65 / NEMA 4X				
	ength of cable:	1.5 m EU				
	ype of cable plug: nrush current:	25A at 230V for 2r	ns			
	Controls:					
-	Control variant:	FCM				
	evel control:	YES				
-		0/4-20 MA				
L	vnalog input:					
L	nalog input: Pulse control:					
L A F	Pulse control:	YES YES				
L A P		YES				



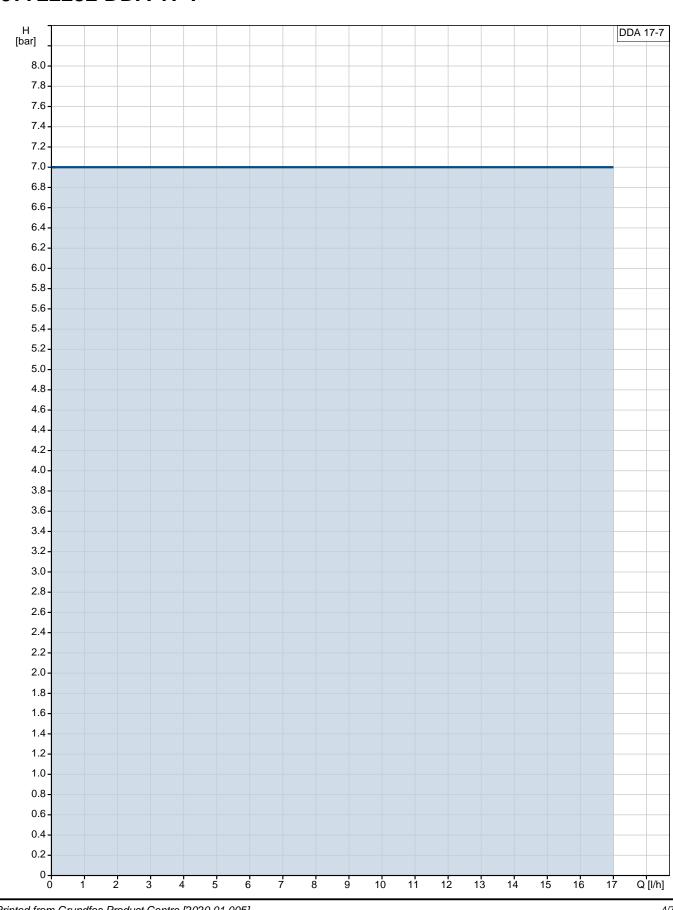
Company name: Created by:

	GRUNDI	FOS	Created by: Phone:		
			Date:	04/02/2020	
-	Description				
	Bus communication:	YES			
	Others:				
	Net weight: Gross weight:	3 kg 4 kg			
	Color:	4 kg RED			



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## 97722232 DDA 17-7



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		Date:	C	4/02/202	20		
Description	Value	H [bar]				DD	DA 17-7
General information:							
Product name:	DDA 17-7	-					
Product No:	97722232	7.5 -					
EAN number:	5710622723755	-					
	5710622723755	7.0					
Technical:	0110022120100	6.5 -					
Type key:	DDA 17-7	0.5 -					
	FCM-PV/E/C-F-32U2U2FG	6.0 -					
Max. Flow:	17 l/h	_					
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	- 45					
Approvals on nameplate:	CE,CSA-US,NSF61,EAC,RCM	4.5 -					
Valve type:	Spring-Loaded (HV-version)	4.0					
Maximum viscosity at 100 %:	500 mPas	4.0 7					
Maximum viscosity in slow mode 50 %:	1300 mPas	3.5 -					
Maximum viscosity in slow mode 25 %:	2000 mPas	3.0 -					
Accuracy of repeatability:	1 %						
Materials:	. , .	2.5 -					
Dosing head:	PVDF (Polyvinylidene fluoride)	-					
Valve ball:	Ceramic	2.0 -					
Gasket:	EPDM						
Installation:		1.5 -					
Range of ambient temperature:	0 45 °C	1.0					
Maximum operating pressure:	7 bar	- 1.0 -					
Installation set:	NO	0.5 -					
	No installation set						
Installation type:		0					
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	_					
Max. Suction lift during operation:	6 m			•	280 251	•	1
Max. Suction lift during priming:	3 m	17.5 110			5/8"		<b>_</b>
Liquid:						-A	
Pumped liguid:	Water		_	▕▕₿ſ▔		\//	
Liquid temperature range:	-10 45 °C					_ □     \ \	
Selected liquid temperature:	20 °C			200.5			501
Density:	998.2 kg/m <sup>3</sup>			j		∣₽	
Electrical data:				38.5	⊤		$\mathcal{I}$
Maximum power input - P1:	24 W		╤╢│	~		===+	Ų
Mains frequency:	50 / 60 Hz	4 xØ 6 105 120		-	24 161	17	
Rated voltage:	1 x 100-240 V	16	8				
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:	2011 01 2013						
Control variant:	FCM						
Control variant: Control panel:	FRONT-MOUNTED						
	YES						
Level control:	VES 0/4-20 MA						
Analan innut	U/4-7U IVIA						
Analog input:							
Pulse control:	YES						
Pulse control: Ext. Stop input:	YES YES						
Pulse control: Ext. Stop input: Analog output:	YES YES 0/4-20 MA						
Pulse control: Ext. Stop input:	YES YES						



 Date:
 04/02/2020

 Description
 Value

 Net weight:
 3 kg

 Gross weight:
 4 kg

 Color:
 RED



Date:

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