

30/01/2020

Qty. | Description

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DDA 7.5-16



Note! Product picture may differ from actual product

Product No.: 97722012 DDA 7.5-16 FCM-PP/V/C-F-32U2U2

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: 3.75 l/h) and 25 % (maximum flow: 1.88 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				
<ul> <li>I wo potential-free output timer etc.)</li> </ul>	relays for max. 30 V AC	C/DC (configui	rable, e.g. alarm, stroke signal, pump	o dosing,
- Output analog 0/4-20mA.				
	nterface (GeniBus, also	for additional	Profibus DP E-box to retrofit).	
Technical:				
Type key:	DDA 7.5-16 FCM-PP/\	//C-F-32U2U2	2	
Max. Flow:	7.5 l/h			
Max. flow in slow mode 50%:	3.75 l/h			
Max. flow in slow mode 25%:	1.88 l/h			
Min flow:	2.5 ml/h			
Furn-down ratio:	1:3000			
Approvals on nameplate:	CE,CSA-US,EAC,RCM	1		
	Spring-Loaded (HV-ve			
••	600 mPas			
Maximum viscosity in slow mode	50 %: 1800 mPas			
Maximum viscosity in slow mode				
Accuracy of repeatability:	1 %			
Materials:				
Dosing head:	PP (Polypropylene)			
/alve ball:	Ceramic			
asket:	FKM			
nstallation:				
Range of ambient temperature:	0 45 °C			
Aaximum operating pressure:	16 bar			
nstallation set:	NO			
nstallation type:	No installation set			
	4/6, 6/9, 6/12, 9/12 mm	ו		
	4/6, 6/9, 6/12, 9/12 mm			
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:	25A at 230V for 2ms			
Controls:				
	FCM			
Control variant:	YES			
Control variant: Level control:	YES 0/4-20 MA			
Control variant: Level control:	-			
Control variant: Level control: Analog input: Pulse control:	0/4-20 MA			
Control variant: Level control: Analog input: Pulse control: Ext. Stop input:	0/4-20 MA YES			



Company name: Created by:

	GRUNDI	FosX	Created by: Phone:		
			Date:	30/01/2020	
ty.	Description				
	Bus communication:	YES			
	Others:				
	Net weight:	2 kg			
	Gross weight: Color:	3 kg RED			
	Country of origin:	FR			
	Custom tariff no.:	84135040			



Date: 30/01/2020 97722012 DDA 7.5-16 H [bar] DDA 7.5-16 18 17 16 15 14 13-12. 11 10 9 8 7. 6. 5 4 3 2 1 0<del>+</del> 0

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Description	Value	H - [bar]		DDA 7.5-16
General information:		18 -		
Product name:	DDA 7.5-16			
Product No:	97722012	17 -		
EAN number:	5710622721546	16 -		
	5710622721546			
Price:	2.193,00 GBP	15 -		
Technical:				
Type key:	DDA 7.5-16	14-		
Type key:	FCM-PP/V/C-F-32U2U2	13 -		
Max. Flow:	7.5 l/h			
Max. flow in slow mode 50%:	3.75 l/h	12 -		
Max. flow in slow mode 25%:	1.88 l/h	11 -		
Min flow:	2.5 ml/h	117		
Turn-down ratio:	1:3000	10 -		
Approvals on nameplate:	CE,CSA-US,EAC,RCM			
Valve type:	Spring-Loaded (HV-version)	9 -		
Maximum viscosity at 100 %:	600 mPas	8-		
Maximum viscosity in slow mode	1800 mPas			
50 %:		7 -		
Maximum viscosity in slow mode 25 %:	2500 mPas	6-		
Accuracy of repeatability:	1 %	5 -		
Materials:		5-		
Dosing head:	PP (Polypropylene)	4 -		
Valve ball:	Ceramic			
Gasket:	FKM	3-		
Installation:		2-		
Range of ambient temperature:	0 45 °C			
Maximum operating pressure:	16 bar	1-		
Installation set:	NO			
Installation type:	No installation set	0 0.5	1.5 2.5 3.5	4.5 5.5 6.5 Q [l/h
Pump inlet:	4/6, 6/9, 6/12, 9/12 mm			
Pump outlet:	4/6, 6/9, 6/12, 9/12 mm		-	280
Max. Suction lift during operation:	6 m	17.5 110	<b>۔</b>	251
Max. Suction lift during priming:	2 m			
Liquid:				
Pumped liquid:	Water		▋▌▏▏▏▏▝▋	↓Щ ⊢ <sub>□</sub> _□   \ \
Liquid temperature range:	-10 45 °C		36	
Selected liquid temperature:	20 °C			
Density:	998.2 kg/m³	10000	õi   <sub>1</sub> -1	
Electrical data:				
Maximum power input - P1:	24 W	4 xØ 6 105		24 161 17
Mains frequency:	50 / 60 Hz	120		
Rated voltage:	1 x 100-240 V	• 100		
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			
Others:	-			



		Date:	30/01/2020
Description	Value		
Net weight:	2 kg	-	
Gross weight:	3 kg		
Color:	RED		
Country of origin:	FR		
Custom tariff no.:	84135040		



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