

30/01/2020

Qty. | Description

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DDA 7.5-16



Note! Product picture may differ from actual product

Product No.: 97722037 DDA 7.5-16 FCM-PV/T/C-F-32I001

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:



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	Description					
	 Input for pulse, analog 0/4 		p.			
	 Input for low-level and empty-tank signal. Two potential-free output relays for max. 30 V AC/DC (configurable, e.g. alarm, stroke signal, pump 					
	timer etc.)	-	AC/DC (config	urable, e.g. alarm, stroke signal, pump	o dosing	
	 Output analog 0/4-20mA. 					
	- Fieldbus communication i	nterface (GeniBus, a	also for addition	al Profibus DP E-box to retrofit).		
	Installation set includes:					
	- 2 pump connections (Hos					
	 Foot valve (without level s Injection unit. 	SWITCH).				
	 Injection unit. 6 m PE discharge hose. 					
	- 2 m PVC suction hose.					
	- 2 m PVC deaeration hose	e (4/6 mm).				
	Technical: Type key:	DDA 7.5-16 FCM-F	PV//T/C-E-321001			
	Max. Flow:	7.5 l/h	V/1/O-1-52100			
	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				
	Turn-down ratio:	1:3000				
	Approvals on nameplate:	CE,CSA-US,NSF6				
	Valve type:	Spring-Loaded (HV	-version)			
	Maximum viscosity at 100 %:	600 mPas				
	Maximum viscosity in slow mode					
	Maximum viscosity in slow mode Accuracy of repeatability:	25 %. 2500 mPas 1 %	•			
	Accuracy of repeatability.	1 70				
	Materials:		(I) (I) (I) (I)			
	Dosing head: Valve ball:	PVDF (Polyvinylide Ceramic	ne fluoride)			
	Gasket:	PTFE				
	Odsket.					
	Installation:	0 45 %				
	Range of ambient temperature: Maximum operating pressure:	16 bar				
	Installation set:	YES				
	Installation type:	4/6 mm up to 7,5 l/l	n 16 bar			
	Pump inlet:	Hose 4/6 mm 3	1,10 001			
	Pump outlet:	Hose 4/6 mm 3				
	Max. Suction lift during operation	n: 6 m				
	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				
1	Enclosure class (IEC 34-5):	IP65 / NEMA 4X				
	Longth of apploy	1.5 m				
	Length of cable:					
	Type of cable plug: Inrush current:	EU 25A at 230V for 2m				



		Date:	30/01/2020	
Description				
Controls:				
Control variant:	FCM			
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:	3 kg			
Color:	RED			
Country of origin:	FR			
Custom tariff no.:	84135040			
	Controls: Control variant: Level control: Analog input: Pulse control: Ext. Stop input: Analog output: Output relays: Bus communication: Others: Net weight: Gross weight: Color: Country of origin:	Controls:Control variant:FCMLevel control:YESAnalog input:0/4-20 MAPulse control:YESExt. Stop input:YESAnalog output:0/4-20 MAOutput relays:2Bus communication:YESOthers:YESNet weight:3 kgGross weight:4 kgColor:REDCountry of origin:FR	DescriptionControls:Control variant:FCMLevel control:YESAnalog input:0/4-20 MAPulse control:YESExt. Stop input:YESAnalog output:0/4-20 MAOutput relays:2Bus communication:YESOthers:YESNet weight:3 kgGross weight:4 kgColor:REDCountry of origin:FR	DescriptionControls:Control variant:FCMLevel control:YESAnalog input:0/4-20 MAPulse control:YESExt. Stop input:YESAnalog output:0/4-20 MAOutput relays:2Bus communication:YESOthers:YESNet weight:3 kgGross weight:4 kgColor:REDCountry of origin:FR



Date: 30/01/2020 97722037 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+ 0

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Description	Value	[bar]		DDA 7.5-1
General information:		18 -		
Product name:	DDA 7.5-16			
Product No:	97722037	17 -		
EAN number:	5710622721799	16		
	5710622721799	10		
Price:	2.522,00 GBP	15 -		
Technical:	,			
	DDA 7.5-16	14 -		
Type key:	FCM-PV/T/C-F-32l001	10		
Max. Flow:	7.5 l/h	13 -		
Max. flow in slow mode 50%:	3.75 l/h	12 -		
Max. flow in slow mode 25%:	1.88 l/h			
Min flow:		11 -		
	2.5 ml/h			
Turn-down ratio:	1:3000	10 -		
Approvals on nameplate:	CE,CSA-US,NSF61,EAC,RCM	9 -		
	Spring Looded (LIV (version)	°]		
Valve type:	Spring-Loaded (HV-version)	8 -		
Maximum viscosity at 100 %:	600 mPas			
Maximum viscosity in slow mode 50 %:	1800 mPas	7-		
Maximum viscosity in slow mode 25 %:	2500 mPas	6 -		
Accuracy of repeatability:	1 %	5 -		
Materials:				
Dosing head:	PVDF (Polyvinylidene fluoride)	4 - 3 -		
Valve ball:	Ceramic	3-		
Gasket:	PTFE	2 -		
Installation:				
	0 45 °C	1-		
Range of ambient temperature:		_		
Maximum operating pressure:	16 bar	0 0.5	1.5 2.5 3.5	4.5 5.5 6.5 Q [l/h
Installation set:	YES			
Installation type:	4/6 mm up to 7,5 l/h,16 bar		je	280
Pump inlet:	Hose 4/6 mm 3		•	251 • 5/8"
Pump outlet:	Hose 4/6 mm 3	17.5 110		
Max. Suction lift during operation:	6 m		╕╟┥╴╎╵╹	
Max. Suction lift during priming:	2 m		┘║//	
Liquid:				
Pumped liquid:	Water			50
Liquid temperature range:	-10 45 °C			
Selected liquid temperature:	20 °C			
Density:	998.2 kg/m ³			
Electrical data:	3	4 <u>xØ 6</u> 105 120	┥│	24 161 17
Maximum power input - P1:	24 W		68	
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:				
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			



Value	Date:	30/01/2020
Value		
YES		
3 kg		
4 kg		
RED		
FR		
84135040		
	3 kg 4 kg RED FR	3 kg 4 kg RED FR



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