

20/02/2020

Qty. | Description

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DDA 30-4



Note! Product picture may differ from actual product

Product No.: 97722293 DDA 30-4 FC-PVC/V/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: 15 l/h) and 25 % (maximum flow: 7.5 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:		20/02/2020
-	Description				
	 Input for pulse, analog 0/4 Input for low-level and err Two potential-free output timer etc.) 	npty-tank signal.	•	configurable	, e.g. alarm, stroke signal, pump dosi
	 Output analog 0/4-20mA. Fieldbus communication i 		also for a	dditional Prof	ibus DP E-box to retrofit).
	Technical:	Υ.			,
	Type key:	DDA 30-4 FC-PV	C/V/C-E-32	U2U2FG	
	Max. Flow:	30 l/h	0, 1, 0, 1, 02	02021 0	
	Max. flow in slow mode 50%:	15 l/h			
	Max. flow in slow mode 25%:	7.5 l/h			
	Min flow:	30.0 ml/h			
	Turn-down ratio:	1:1000			
				` N <i>A</i>	
	Approvals on nameplate:	CE,CSA-US,NSF			
	Valve type:	Spring-Loaded (H	v-version)		
	Maximum viscosity at 100 %:	200 mPas			
	Maximum viscosity in slow mode				
	Maximum viscosity in slow mode		IS		
	Accuracy of repeatability:	1 %			
	Materials:				
	Dosing head:	PVC (Polyvinyl ch	loride)		
	Valve ball:	Ceramic	,		
	Gasket:	FKM			
	Installations				
	Installation:	0 45 00			
	Range of ambient temperature:				
	Maximum operating pressure:	4 bar			
	Installation set:	NO			
	Installation type:	No installation set			
	Pump inlet:	4/6, 6/9, 6/12, 9/1			
	Pump outlet:	4/6, 6/9, 6/12, 9/1	2 mm		
	Max. Suction lift during operation	n:6m			
	Max. Suction lift during priming:	2 m			
	Liquid:				
	Pumped liquid:	Water			
	Liquid temperature range:	-10 45 °C			
	Selected liquid temperature:	20 °C			
	Density:	998.2 kg/m ³			
	-	5			
	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 2	ms		
	Controlo				
	Controls:	50			
	Control variant:	FC			
		YES			
	Level control:				
	Analog input:	0/4-20 MA			
	Analog input: Pulse control:	YES			
	Analog input: Pulse control: Ext. Stop input:				
	Analog input: Pulse control:	YES			



Company name: Created by:

	GRUNDI	FOSX	Created by: Phone:		
			Date:	20/02/2020	
y.	Description				
	Bus communication:	YES			
	Others:				
	Net weight: Gross weight:	3 kg 4 kg			
	Color:	RED			
	Country of origin:	FR			
	Custom tariff no.:	84135040			



Company name: Created by:

Phone: Date: 20/02/2020 97722293 DDA 30-4 H [bar] DDA 30-4 4.6 4.4 4.2 4.0 3.8 3.6 3.4 3.2 3.0 2.8 2.6 2.4 2.2 2.0 1.8 1.6 1.4 1.2 1.0 0.8 0.6 0.4 0.2 0| 0 2 4 6 8 10 12 14 16 18 20 22 26 28 24 30 Q [İ/h]



Value	H [bar]			DDA 30-
DDA 30-4	4.4 -			
97722293	4.2			
5710622724356	-			
	4.0			
	3.8 -			
2.301,00 OBI	36			
	-			
FC-PVC/V/C-F-32U2U2FG	3.4 -			
30 l/h	3.2 -			
	3.0			
	-			
	2.8 -			
	2.6 -			
	24			
	2.4 -			
	2.2 -			
200 mPas	20-			
600 mPas				
000 mi as	1.8 -			
1500 mPas	1.6 -			
1 %	1.4 -			
	1.2 -			
PVC (Polyvinyl chloride)	10			
	- 1.0]			
	0.8 -			
	0.6 -			
0 45 %	-			
	0.4 -			
	0.2 -			
	0	5 10	15	20 25 Q [l/ł
4/6, 6/9, 6/12, 9/12 mm				
4/6, 6/9, 6/12, 9/12 mm			þ.	295
6 -			G 5/8"	267
811	-17.5 110			
2 m				
Water				
				8
		00		
555.2 kg/m			++	
24 \\/	4 100 /	•	38.5	161 17
		168		
1.5 m				
EU				
25A at 230V for 2ms				
FC				
0/4-20 MA				
2				
	DDA 30-4 97722293 5710622724356 5710622724356 2.361,00 GBP DDA 30-4 FC-PVC/V/C-F-32U2U2FG 30 l/h 15 l/h 7.5 l/h 30.0 ml/h 1.1000 CE,CSA-US,NSF61,EAC,RCM Spring-Loaded (HV-version) 200 mPas 600 mPas 600 mPas 1500 mPas 1500 mPas 1500 mPas 1500 mPas 1500 mPas 0 45 °C 4 bar NO No installation set 4/6, 6/9, 6/12, 9/12 mm 4/6, 6/9, 6/12, 9/12 mm 50 / 60 Hz 1 x 100-240 V 1P65 / NEMA 4X 1.5 m EU 25A at 230V for 2ms FC FC FRONT-MOUNTED YES 0/4-20 MA YES	Value [bar] DDA 30-4 4.4 97722293 4.4 5710622724356 3.8 2.361,00 GBP 3.8 DDA 30-4 3.4 FC-PVC/V/C-F-32U2U2FG 3.0 30.0 ml/h 2.8 15 l/h 3.0 7.5 l/h 2.8 30.0 ml/h 2.8 11000 2.8 200 mPas 2.0 600 mPas 1.8 1500 mPas 1.6 1 % 1.4 1/4 1.2 PVC (Polyvinyl chloride) 0. Ceramic 1.0 FKM 0.8 0 45 °C 0.4 4/6, 6/9, 6/12, 9/12 mm 0 4/6, 6/9, 6/12, 9/12 mm 0 6 m 2 0 2 m 0 0 Water -10 45 °C 20 °C 998.2 kg/m³ 24 W 250 / 60 Hz 1 x 100-240 V 1 1500 IP65 / NEMA 4X 1.5 m EU 25A at 230V for 2ms	Value [bar] [bar] DDA 30-4 97722293 5710622724356 44 5710622724356 38 2.361,00 GBP 38 DDA 30-4 76 PC-PVC/V/c-F-32U2U2FG 30 30 l/h 15 15 l/h 7.5 l/h 30.0 m/h 28 11000 CE,CSA-US,NSF61,EAC,RCM Spring-Loaded (HV-version) 20 600 mPas 16 1% 12 PVC (Polyvinyl chloride) 20 Ceramic 7KM 7KM 0. 0 45 °C 0. 20 °C 98.2 kg/m³ 24 W 0/60 Hz 1 x 100-240 V PP65 / NEMA 4X 1.5 m EU 25A at 230V for 2ms FC FRONT-MOUNTED YES 0/4-20 MA YES YES	Value Ibal Ibal Ibal DDA 30-4 97722233 44 42 44 3710622724356 2.361,00 GBP 38 36 38 DDA 30-4 FC-PVC/V/C-F-32U2U2FG 30 34 36 36 30 I/h 15 I/h 75 J/h 30 36 36 36 15 I/h 75 J/h 30.0 mPas 36 36 36 36 1000 CE,CSA-US,NSF61,EAC,RCM Spring-Loaded (HV-version) 20 20 600 mPas 18 16 1500 mPas 150 MA 16 14 15 16 <td< td=""></td<>

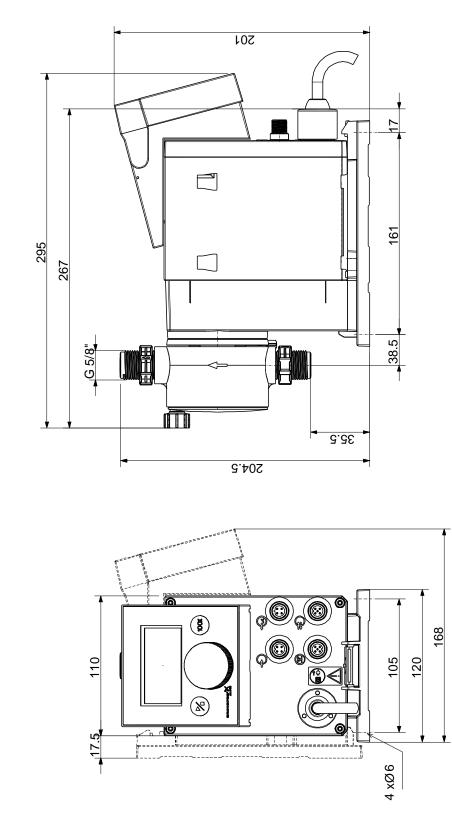


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Description	Value			
Others:				
Net weight:	3 kg			
Gross weight:	4 kg			
Color:	RED			
Country of origin:	FR			
Custom tariff no .:	84135040			



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Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.