Submittal Data

PROJECT:	UNIT TAG:	QUANTITY:
	TYPE OF SERVICE:	
REPRESENTATIVE:	SUBMITTED BY:	DATE:
ENGINEER:	APPROVED BY:	DATE:
CONTRACTOR:	ORDER NO.:	DATE:

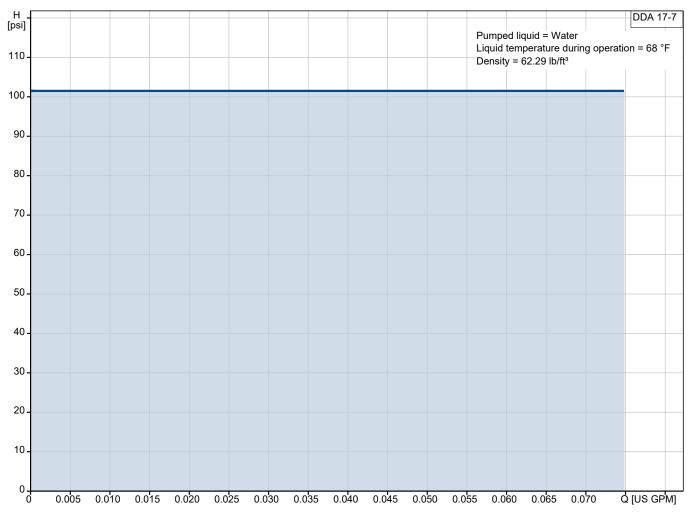


Note! Product picture may differ from actual product

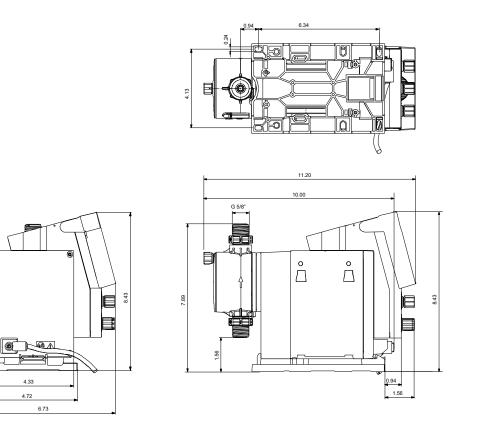
DDA 17-7 FCM-C-PVC/T/C-F-31I004BG

SMART Digital diaphragm dosing pump with internal brushless motor drive. High-end solution for complex and demanding applications (Digital Dosing Advanced).

Conditions of Service		Pump Data		Motor Data	
Liquid:	Water	Maximum operating pressure:	101.53 psi	Rated voltage:	100-240 V
Temperature:	68 °F	Liquid temperature range:	32 113 °F	Mains frequency:	50 / 60 Hz
Specific Gravity:	1.000	Maximum ambient temperature: Product number:	113 °F 93065052	Enclosure class:	IP65 / TYPE 4X



Submittal Data



Materials:

Dosing head: Valve ball: Gasket:

PVC (Polyvinyl chloride) Ceramic PTFE



Company name: Created by: Phone:

	Date: 10/02/2025
Qty.	Description
1	DDA 17-7 FCM-C-PVC/T/C-F-311004BG
	Note! Product picture may differ from actual product
	Product No.: 93065052
	The SMART Digital DDA-C 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.
	Depending on the set capacity, the duration of the discharge stroke varies, ensuring an optimal, uniform 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 easily turned to the front, left or right position. The click wheel and the multi-coloured backlit graphic plain-text LC display enable intuitive commissioning and operation.
	The control elements are protected by a transparent cover. The DDA-C has built-in connectivity that allows easy setup and tracking via the Grundfos GO app as well as easy integration into a Modbus RTU or TCP bus system.
	The sensor-based FlowControlMeasurement (FCM) system detects malfunctions such as air bubbles, line breaks or overpressure directly in the dosing head and displays them in plain text in the alarm menu.
	FCM measures the actual pressure and flow rate and eliminates the need for additional monitoring and control devices (accuracy of ± 1.5 % of the set value in a trouble-free process).
	The measured pressure and flow are displayed and can be integrated into the process control system, e.g. SCADA.
	In addition, the AutoFlowAdapt function automatically adjusts the pump speed to the process conditions to maintain the target flow even with fluctuating back pressure or air bubble formation (degassing drive strategy).
	The dosing head includes the following parts:A durable and chemically resistant full PTFE diaphragm,
	Double ball valves for maximum dosing accuracy,
	 A deaeration valve for easy start-up, A pressure sensor.
	Operation modes and functions:
	• 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 (integrated Modbus RTU and TCP; Profibus DP, Profinet and Ethernet IP via CIM/CIU models).
	Cloud control and monitoring (Smart Digital Chempairing Suite; Grundfos Connect).
	Other features:
	 The sensor-based FlowControlMeasurement (FCM) system detects malfunctions such as air bubbles, line breaks or overpressure directly in the dosing head.
	A Macourament of actual process in a dominant

- Measurement of actual pressure and flow. ٠
- AutoFlowAdapt automatically adjusts the pump speed to the process conditions (what you set is what you get).



10/02/2025

Qty. | Description

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 Degassing drive strategy in case of air bubbles detected in the dosing head and Auto Deaeration during pump standby avoids stand-still due to air-locking.

Date:

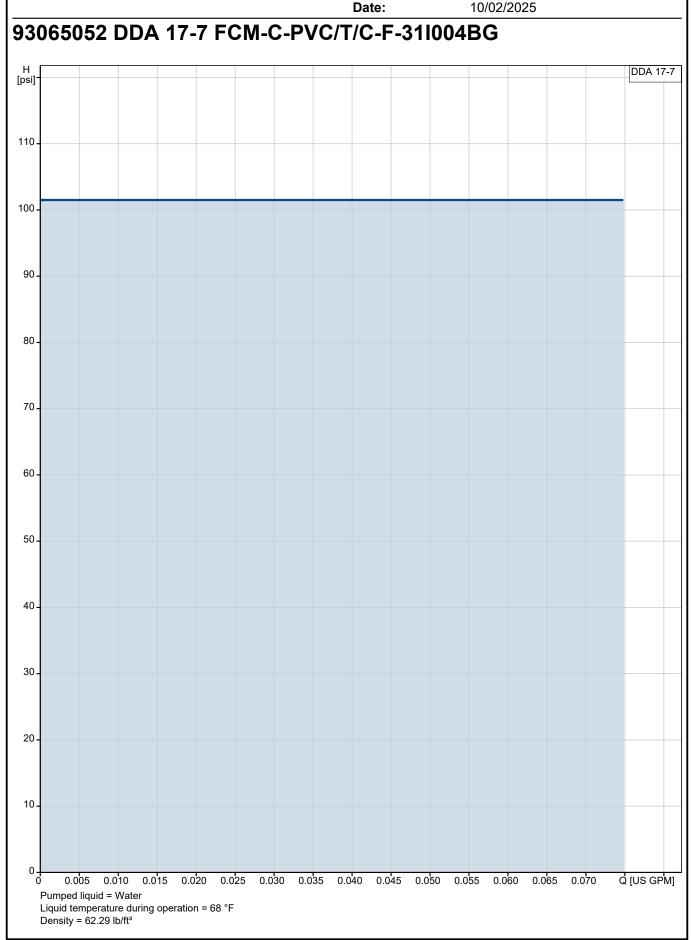
- · ConditionCheck analyses the pump and the system where the pump is installed.
- Two SlowMode steps (anti-cavitation), 50 % and 25 % maximum flow, e.g. for high-viscosity or degassing liquids.
- Max. Capacity to limit the capacity of the pump to a set maximum.
- · Service information display to show when service and which wear-part order numbers are required.
- Two-step key lock function to protect the pump against unauthorised access.
- Multi-parameter dashboard function to provide further information on up to 4 parameters.
- · Counter for total dosed volume (resettable), operating hours, etc.
- Save, copy and load customised settings as well as reload factory settings.

Signal inputs/outputs:

- Input for pulse, analog 0/4-20mA, external stop.
- 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 dosing, timer etc.)
- Output analog 0/4-20mA.
- Fieldbus control (Integrated Modbus RTU and TCP; Profibus DP, Profinet and Ethernet IP via CIM/CIU models).
- Cloud control and monitoring (Smart Digital Chempairing Suite; Grundfos Connect).

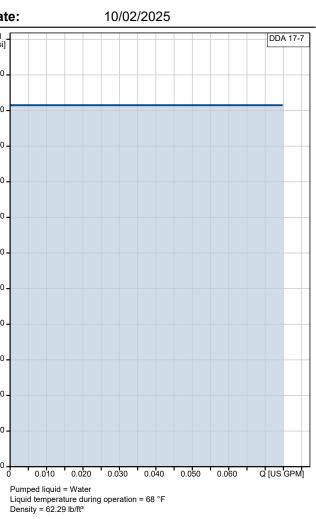


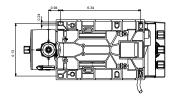
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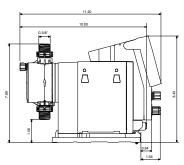




		Date:	1
Description	Value	H [psi]	
General information:			
Product name:	DDA 17-7 FCM-C-PVC/T/C-F-31I004BG	110 -	
Product No:	93065052	100 -	
EAN number:	5715467278330	100 -	
Technical:			
Туре кеу:	DDA 17-7 FCM-C-PVC/T/C-F-31I00	90 -	
Max. Flow:	0.07485 US GPM	80 -	
Max. flow in slow mode 50%:	0.03742 US GPM		
Max. flow in slow mode 25%:	0.01871 US GPM	70 -	
Min flow:	17.0 ml/h	70-	
Turn-down ratio:	1:1000		
Approvals:	CE,CSA-US,NSF61,RCM	60 -	
Valve type:	Standard		
Maximum viscosity at 100 %:	300 mPas	50 -	
Maximum viscosity in slow mode 50 %:	1300 mPas		
Maximum viscosity in slow mode 25 %:	2000 mPas	40 -	
Accuracy of repeatability:	1 %	30 -	
Materials:			
Dosing head:	PVC (Polyvinyl chloride)		
Valve ball:	Ceramic	20 -	
Gasket:	PTFE		
Installation:		10 -	
Range of ambient temperature:	32 113 °F		
Maximum operating pressure:	101.53 psi	0	
Installation set (Yes/No):	YES		0.020
Installation type:	3/8"x1/2" up to 60 l/h,10bar	Pumped liquid = Liquid temperatur	
Pump inlet:	Hose 3/8x1/2" S Hose 3/8x1/2" S	Density = 62.29 lt	
Pump outlet:			
Max. Suction lift during operation:	19.7 ft		
Max. Suction lift during priming:	9.84 ft		
Liquid:			
Pumped liquid:	Water		
Liquid temperature range:	32 113 °F		
Selected liquid temperature:	68 °F		
Density:	62.29 lb/ft ³		
Electrical data: Maximum power input - P1:	24 W		
Maximum power input - P1: Mains frequency:	24 W 50 / 60 Hz		
Rated voltage:	1 x 100-240 V		
Enclosure class (IEC 34-5):	IP65 / TYPE 4X		
Length of cable:	4.92 ft	- $ $ $ $ $ $ $/$	
Type of cable plug:	USA, Canada	_	
Inrush current:	25A at 230V for 2ms		₽
Controls:			
Control variant:	FCM-C	4.33	
Control variant:	FCM-C Front-Mounted	4.33 4.72 6.73	
		4.33 4.72 6.73	
Control variant: Control panel: Level control:	Front-Mounted	433 472 673	_
Control variant: Control panel: Level control: Analog input:	Front-Mounted YES	4.33 4.72 6.73	
Control variant: Control panel:	Front-Mounted YES 0/4-20 MA	4.33 4.72 6.73	
Control variant: Control panel: Level control: Analog input: Pulse control:	Front-Mounted YES 0/4-20 MA YES	4.33 4.72 6.73	
Control variant: Control panel: Level control: Analog input: Pulse control: Ext. Stop input:	Front-Mounted YES 0/4-20 MA YES Yes	4.33 4.72 6.73	
Control variant: Control panel: Level control: Analog input: Pulse control: Ext. Stop input: Analog output:	Front-Mounted YES 0/4-20 MA YES Yes 0/4-20 MA	433 477 673	









DescriptionValueNet weight:4.41 lbGross weight:6.62 lbColor:REDCountry of origin:USCustom tariff no.:8413.19.0000

