## Submittal Data

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

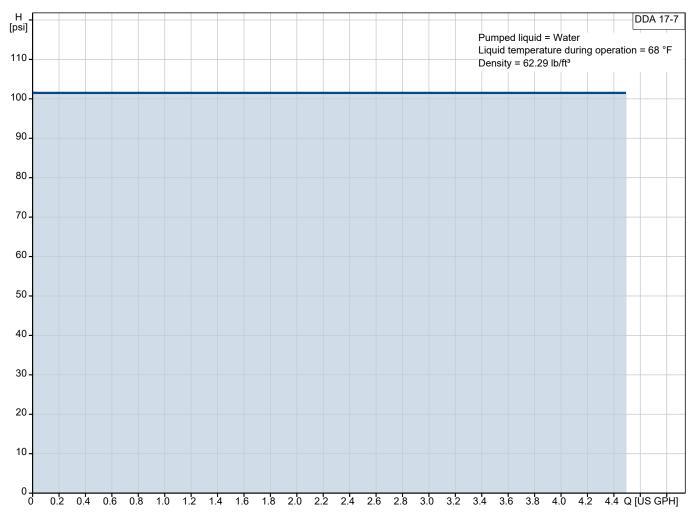


Note! Product picture may differ from actual product

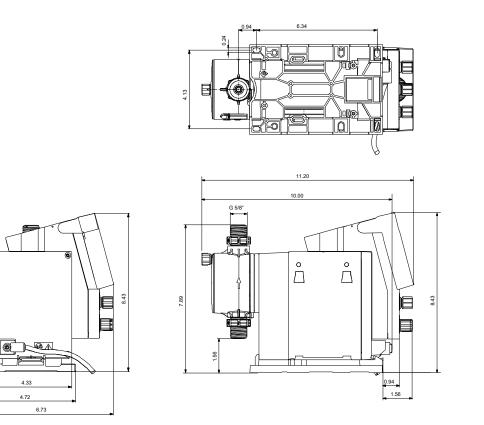
#### DDA 17-7 FCM-C-PV/V/C-F-31I004BG

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:	113 °F	Enclosure class:	IP65 / TYPE 4X
		Product number:	93065061		



# Submittal Data





Dosing head: Valve ball: Gasket:

PVDF (Polyvinylidene fluoride) Ceramic FKM



Company name: Created by: Phone:

_	Date: 10/02/2025
[	escription
1	DA 17-7 FCM-C-PV/V/C-F-31I004BG
	Note! Product picture may differ from actual product
F	roduct No.: 93065061
	he 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.
	he SMART Digital Dosing series operates at full stroke length to ensure optimum accuracy, priming and suction, ven for high-viscosity or degassing liquids.
	epending on the set capacity, the duration of the discharge stroke varies, ensuring an optimal, uniform and ontinuous discharge flow.
7	he click-stop mounting plate allows installation in three different positions without using any additional accessories
1	he control cube can be easily turned to the front, left or right position. he click wheel and the multi-coloured backlit graphic plain-text LC display enable intuitive commissioning and peration.
1	he control elements are protected by a transparent cover. he DDA-C has built-in connectivity that allows easy setup and tracking via the Grundfos GO app as well as easy itegration into a Modbus RTU or TCP bus system.
	he sensor-based FlowControlMeasurement (FCM) system detects malfunctions such as air bubbles, line breaks o verpressure directly in the dosing head and displays them in plain text in the alarm menu.
F	CM measures the actual pressure and flow rate and eliminates the need for additional monitoring and control evices (accuracy of ± 1.5 % of the set value in a trouble-free process).
	he measured pressure and flow are displayed and can be integrated into the process control system, e.g. CADA.
l t	n addition, the AutoFlowAdapt function automatically adjusts the pump speed to the process conditions to maintair ne target flow even with fluctuating back pressure or air bubble formation (degassing drive strategy).
	<ul> <li>he dosing head includes the following parts:</li> <li>A durable and chemically resistant full PTFE diaphragm,</li> </ul>
	Double ball valves for maximum dosing accuracy,
	<ul><li>A deaeration valve for easy start-up,</li><li>A pressure sensor.</li></ul>
0	peration modes and functions:
	<ul> <li>Manual dosing in ml/h, l/h or gph.</li> <li>Pulse control in ml/pulse (incl. memory function).</li> </ul>
	Analog control, 0/4-20 mA (scalable).
	Pulse-based batch function in ml, I or gal.
	<ul> <li>Timer-based batch function (dosing timer cycle or week).</li> <li>Fieldbus control (integrated Modbus RTU and TCP; Profibus DP, Profinet and Ethernet IP via CIM/CIU models).</li> </ul>
	<ul> <li>Cloud control and monitoring (Smart Digital Chempairing Suite; Grundfos Connect).</li> </ul>
0	ther features:
	<ul> <li>The sensor-based FlowControlMeasurement (FCM) system detects malfunctions such as air bubbles, line breaks or overpressure directly in the dosing head.</li> </ul>
	Measurement of actual pressure and flow.
	<ul> <li>AutoFlowAdapt automatically adjusts the pump speed to the process conditions (what you set is what you get).</li> </ul>



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#### 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).



110.

100

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Company name: Created by: Phone:

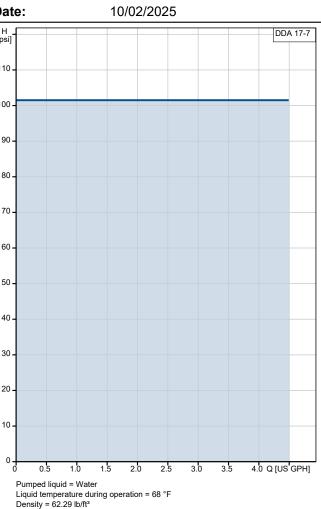
10/02/2025 Date: 93065061 DDA 17-7 FCM-C-PV/V/C-F-311004BG H [psi]<sup>-</sup> DDA 17-7

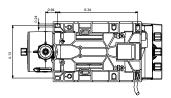
0 <del>1</del> 0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0 3.2 3.4 3.6 3.8 4.0 4.2 4.4 Q [US GPH] Pumped liquid = Water Liquid temperature during operation = 68 °F Density = 62.29 lb/ft3



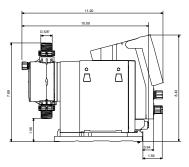
### Company name: Created by: Phone:

		Date:
Description	Value	H [psi]
General information:		
Product name:	DDA 17-7 FCM-C-PV/V/C-F-31I004BG	110 -
Product No:	93065061	100 -
EAN number:	5715467278590	100
Technical:		
Туре кеу:	DDA 17-7 FCM-C-PV/V/C-F-31I004	90 -
Max. Flow:	4.491 US GPH	80 -
Max. flow in slow mode 50%:	2.245 US GPH	
Max. flow in slow mode 25%:	1.123 US GPH	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:		30-
Dosing head:	PVDF (Polyvinylidene fluoride)	-
Valve ball:	Ceramic	20 -
Gasket:	FKM	-
Installation:		10 -
Range of ambient temperature:	32 113 °F	
Maximum operating pressure:	101.53 psi	_
Installation set (Yes/No):	YES	0 0.5
Installation type:	3/8"x1/2" up to 60 l/h,10bar	Pumped liqu
Pump inlet:	Hose 3/8x1/2" S	Liquid temp
Pump outlet:	Hose 3/8x1/2" S	Density = 62
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 <sup>3</sup>	
Electrical data:	0.1.14	
Maximum power input - P1:	24 W	_
Mains frequency:	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:	5014.0	
Control variant:	FCM-C	4.72
Control panel:	Front-Mounted	6.73
Level control:	YES	
Analog input:	0/4-20 MA	
Pulse control:	YES	
	Yes	
	0/4 00 144	
Analog output:	0/4-20 MA	
Ext. Stop input: Analog output: Output relays: Bus communication:	0/4-20 MA 2 YES	











Company name: Created by: Phone:

 Date:
 10/02/2025

 Description
 Value

 Net weight:
 6.62 lb

 Gross weight:
 6.62 lb

 Color:
 RED

 Country of origin:
 US

 Custom tariff no.:
 8413.19.0000

