## Submittal Data

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

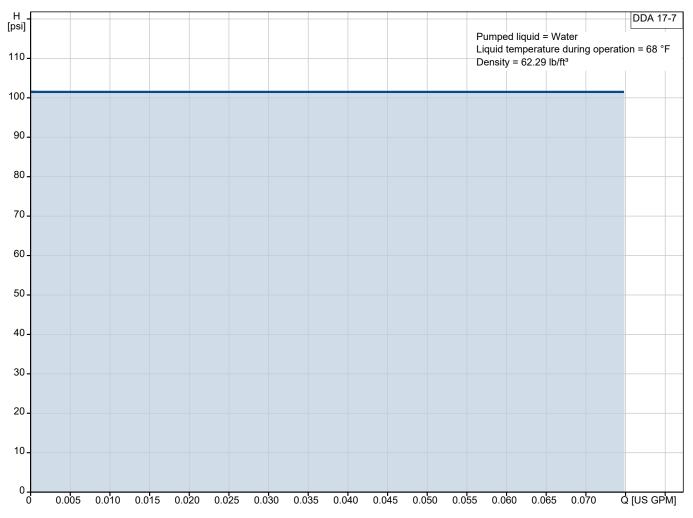


Note! Product picture may differ from actual product

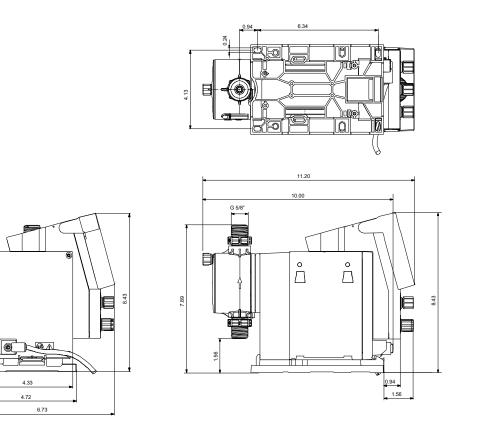
### DDA 17-7 FCM-C-PVC/V/C-F-31U7U7BG

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

Conditions	ons 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:	93065037		



# Submittal Data





Dosing head: Valve ball: Gasket:

PVC (Polyvinyl chloride) Ceramic FKM



Company name: Created by: Phone:

	<b>Date:</b> 10/02/2025
.   C	Description
C	DDA 17-7 FCM-C-PVC/V/C-F-31U7U7BG
	Product No.: 93065037
	10duct No 93003037
(!	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.
e	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.
Т	he click-stop mounting plate allows installation in three different positions without using any additional accessorie
Т	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.
T   ir	The DDA-C has built-in connectivity that allows easy setup and tracking via the Grundfos GO app as well as easy ntegration into a Modbus RTU or TCP bus system.
0	The sensor-based FlowControlMeasurement (FCM) system detects malfunctions such as air bubbles, line breaks overpressure directly in the dosing head and displays them in plain text in the alarm menu.
F   d	CM measures the actual pressure and flow rate and eliminates the need for additional monitoring and control levices (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.
Ir	n addition, the AutoFlowAdapt function automatically adjusts the pump speed to the process conditions to maintai he target flow even with fluctuating back pressure or air bubble formation (degassing drive strategy).
T	The dosing head includes the following parts:
	<ul> <li>A durable and chemically resistant full PTFE diaphragm,</li> <li>Double ball valves for maximum dosing accuracy,</li> </ul>
	<ul> <li>A deaeration valve for easy start-up,</li> </ul>
	A pressure sensor.
c	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).
	<ul> <li>Pulse-based batch function in ml, I or gal.</li> <li>Timer-based batch function (dosing timer cycle or week).</li> </ul>
	<ul> <li>Fieldbus control (integrated Modbus RTU and TCP; Profibus DP, Profinet and Ethernet IP via CIM/CIU models).</li> </ul>
	Cloud control and monitoring (Smart Digital Chempairing Suite; Grundfos Connect).
c	Other 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. •
- 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:

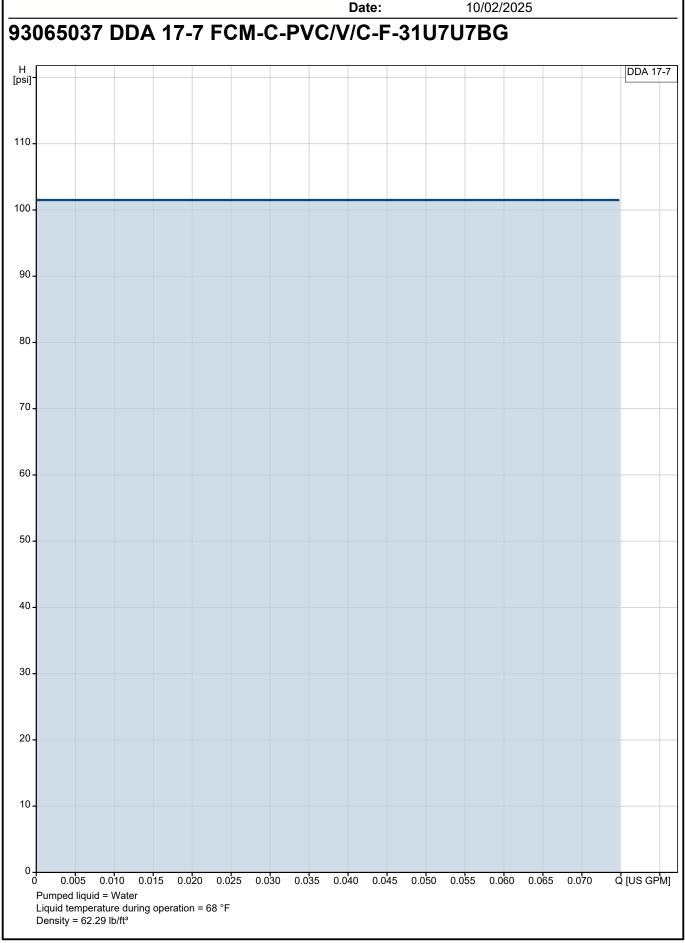
- · ConditionCheck analyses the pump and the system where the pump is installed.
- Two SlowMode steps (anti-cavitation), 50 % and 25 % maximum flow, e.g. for high-viscosity or degassing liquids.
- Max. Capacity to limit the capacity of the pump to a set maximum.
- · Service information display to show 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).

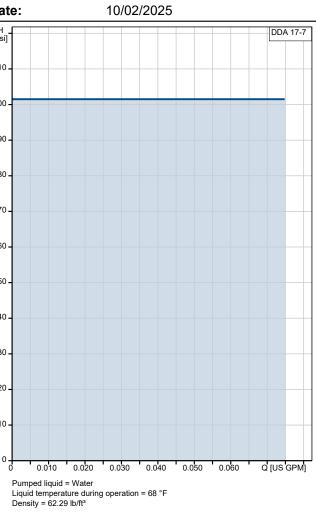


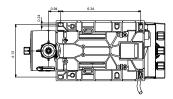
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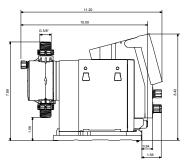


	Date:
Value	H [psi]
DDA 17-7 FCM-C-PVC/V/C-F-31U7U7BG	110-
93065037	100 -
5715467278316	100-
DDA 17-7 FCM-C-PVC/V/C-F-31U7U	90 -
0.07485 US GPM	80 -
0.03742 US GPM	
0.01871 US GPM	
17.0 ml/h	70 -
1:1000	
CE,CSA-US,NSF61,RCM	60 -
Standard	-
300 mPas	50 -
1300 mPas	50 -
2000 mPas	40 -
1 %	30 -
	30-
PVC (Polyvinyl chloride)	-
Ceramic	20 -
FKM	-
	10 -
32 113 °F	- 1
101.53 psi	-
NO	0 0.010 0.02
No installation set	Pumped liquid = Wat
	Liquid temperature d
	Density = 62.29 lb/ft <sup>3</sup>
19.7 ft	
9.84 ft	
Water	
32 113 °F	
68 °F	
62.29 lb/ft <sup>3</sup>	
24 W	
50 / 60 Hz	
1 x 100-240 V	
	-
4.92 ft	
25A at 230V for 2ms	╴╷ <sub>╔╴┏╴</sub> │┴┦
FCM-C	4.33
	4.72
	<b>a</b>
TEO	
	DDA 17-7 FCM-C-PVC/V/C-F-31U7U7BG 93065037 5715467278316 DDA 17-7 FCM-C-PVC/V/C-F-31U7U 0.07485 US GPM 0.03742 US GPM 0.01871 US GPM 17.0 ml/h 1:1000 CE,CSA-US,NSF61,RCM Standard 300 mPas 1300 mPas 2000 mPas 1 % PVC (Polyvinyl chloride) Ceramic FKM 32 113 °F 101.53 psi NO No installation set 0.17x 1/4, 1/4x3/8, 3/8x1/2" 0.17x 1/4, 1/4x3/8, 3/8x1/2" 19.7 ft 9.84 ft Water 32 113 °F 68 °F 62.29 lb/ft <sup>3</sup> 24 W 50 / 60 Hz 1 x 100-240 V IP65 / TYPE 4X 4.92 ft USA, Canada











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

