## Submittal Data

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

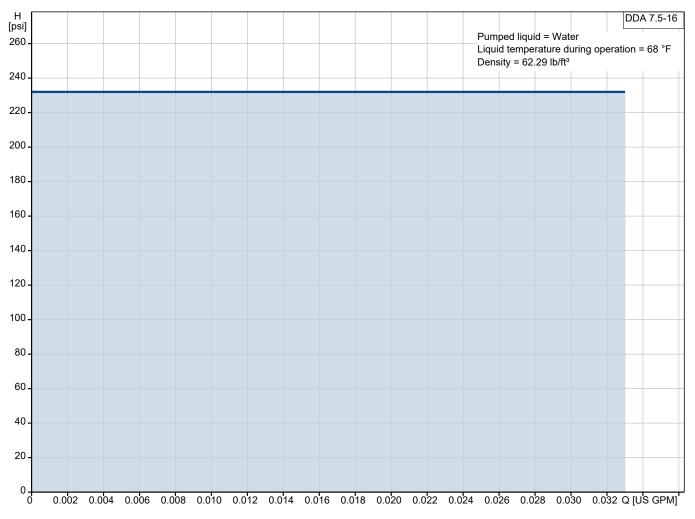


Note! Product picture may differ from actual product

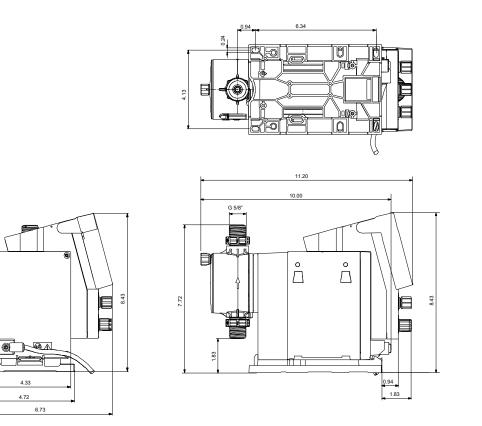
## DDA 7.5-16 FCM-C-PP/E/C-F-31I003BG

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:	232.06 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:	On request		



## Submittal Data





Dosing head: Valve ball: Gasket:

PP (Polypropylene) Ceramic EPDM



Qty.

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Company name: Created by: Phone:

Date: 03/02/2025 Description DDA 7.5-16 FCM-C-PP/E/C-F-311003BG Note! Product picture may differ from actual product Product No.: On request 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.

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



03/02/2025

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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.

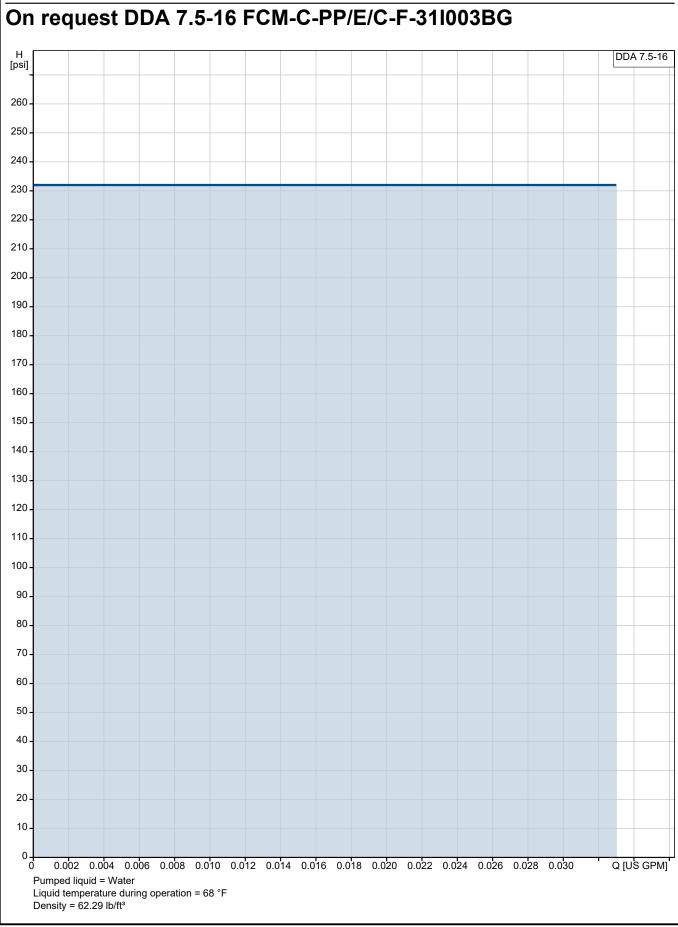
Signal inputs/outputs:

- 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).



Date:

03/02/2025





		.H.				DDA 7.5-1
Description	Value	[psi]_				
General information:		260 -				
Product name:	DDA 7.5-16 FCM-C-PP/E/C-F-31l003BG	250 <b>-</b> 240 <b>-</b>				
Product No:	On request	230 -				
EAN number:	On request	220 -				
Technical:		210 -				
Type key:	DDA 7.5-16 FCM-C-PP/E/C-F-31I0	200 -				
Max. Flow:	0.03302 US GPM	190 -				
Max. flow in slow mode 50%:	0.01651 US GPM	180 -				
Max. flow in slow mode 25%:	0.00828 US GPM	170 -				
Min flow:	2.5 ml/h	160 -				
Turn-down ratio:	1:3000	150 _				
Approvals:	CE,CSA-US,RCM	140 -				
Valve type:	Standard	130 -				
Maximum viscosity at 100 %:	50 mPas	120 -				
Maximum viscosity in slow mode		110 -				
50 %:	1800 mPas	100 -				
Maximum viscosity in slow mode 25 %:	2500 mPas	90 - 80 -				
Accuracy of repeatability:	1 %	70 -				
Materials:		60 -				
Dosing head:	PP (Polypropylene)	50 -				
Valve ball:	Ceramic	40 -				
Gasket:	EPDM	30 -				
Installation:		20				
Range of ambient temperature:	32 113 °F	20 -				
Range of ambient temperature:	32 113 °F 232.06 psi	10 -				
Installation: Range of ambient temperature: Maximum operating pressure: Installation set (Yes/No):			0.010	0.015 0.02	0 0.025	Q [US GPN
Range of ambient temperature: Maximum operating pressure: Installation set (Yes/No): Installation type:	232.06 psi YES 0,17x1/4" up to 7,5 l/h,16bar	10 - 0 0.005 • Pumped liquid =	Water		0 0.025	Q [US GPN
Range of ambient temperature: Maximum operating pressure:	232.06 psi YES	10 - 0 0 0.005 Pumped liquid = Liquid temperati	Water ure during opera		0 0.025	Q [US GPN
Range of ambient temperature: Maximum operating pressure: Installation set (Yes/No): Installation type: Pump inlet:	232.06 psi YES 0,17x1/4" up to 7,5 l/h,16bar	10 - 0 0.005 • Pumped liquid =	Water ure during opera		0 0.025	Q (US GPN
Range of ambient temperature: Maximum operating pressure: Installation set (Yes/No): Installation type:	232.06 psi YES 0,17x1/4" up to 7,5 l/h,16bar Hose 0,17x1/4" 3 Hose 0,17x1/4" 3	10 - 0 0 0.005 Pumped liquid = Liquid temperati	Water ure during opera		0 0.025	Q [US GPN
Range of ambient temperature: Maximum operating pressure: Installation set (Yes/No): Installation type: Pump inlet: Pump outlet: Max. Suction lift during operation: Max. Suction lift during priming:	232.06 psi YES 0,17x1/4" up to 7,5 l/h,16bar Hose 0,17x1/4" 3 Hose 0,17x1/4" 3	10 - 0 0 0.005 Pumped liquid = Liquid temperati	Water ure during opera	ation = 68 °F	6.34	Q US GPN
Range of ambient temperature: Maximum operating pressure: Installation set (Yes/No): Installation type: Pump inlet: Pump outlet: Max. Suction lift during operation: Max. Suction lift during priming: Liquid:	232.06 psi YES 0,17x1/4" up to 7,5 l/h,16bar Hose 0,17x1/4" 3 Hose 0,17x1/4" 3 19.7 ft 6.56 ft	10 - 0 0 0.005 Pumped liquid = Liquid temperati	Water ure during opera	ation = 68 °F	6.34	
Range of ambient temperature: Maximum operating pressure: Installation set (Yes/No): Installation type: Pump inlet: Pump outlet: Max. Suction lift during operation: Max. Suction lift during priming: Liquid: Pumped liquid:	232.06 psi YES 0,17x1/4" up to 7,5 l/h,16bar Hose 0,17x1/4" 3 Hose 0,17x1/4" 3 19.7 ft 6.56 ft Water	10 - 0 0 0.005 Pumped liquid = Liquid temperati	Water ure during opera	ation = 68 °F	6.34	
Range of ambient temperature: Maximum operating pressure: Installation set (Yes/No): Installation type: Pump inlet: Pump outlet: Max. Suction lift during operation: Max. Suction lift during priming: Liquid: Pumped liquid: Liquid temperature range:	232.06 psi YES 0,17x1/4" up to 7,5 l/h,16bar Hose 0,17x1/4" 3 Hose 0,17x1/4" 3 19.7 ft 6.56 ft Water 32 113 °F	10 - 0 0 0.005 Pumped liquid = Liquid temperati	Water ure during opera	ation = 68 °F	6.34	
Range of ambient temperature: Maximum operating pressure: Installation set (Yes/No): Installation type: Pump inlet: Pump outlet: Max. Suction lift during operation: Max. Suction lift during priming: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature:	232.06 psi YES 0,17x1/4" up to 7,5 l/h,16bar Hose 0,17x1/4" 3 Hose 0,17x1/4" 3 19.7 ft 6.56 ft Water 32 113 °F 68 °F	10 - 0 0 0.005 Pumped liquid = Liquid temperati	Water ure during opera	ation = 68 °F	6.34	
Range of ambient temperature: Maximum operating pressure: Installation set (Yes/No): Installation type: Pump inlet: Pump outlet: Max. Suction lift during operation: Max. Suction lift during priming: <b>Liquid:</b> Pumped liquid: Liquid temperature range: Selected liquid temperature: Density:	232.06 psi YES 0,17x1/4" up to 7,5 l/h,16bar Hose 0,17x1/4" 3 Hose 0,17x1/4" 3 19.7 ft 6.56 ft Water 32 113 °F	10 - 0 0 0.005 Pumped liquid = Liquid temperati	Water ure during opera	ation = 68 °F	6.34	
Range of ambient temperature: Maximum operating pressure: Installation set (Yes/No): Installation type: Pump inlet: Pump outlet: Max. Suction lift during operation: Max. Suction lift during priming: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Electrical data:	232.06 psi YES 0,17x1/4" up to 7,5 l/h,16bar Hose 0,17x1/4" 3 Hose 0,17x1/4" 3 19.7 ft 6.56 ft Water 32 113 °F 68 °F 62.29 lb/ft <sup>3</sup>	10 - 0 0 0.005 Pumped liquid = Liquid temperati	Water ure during opera	ation = 68 °F	6.34	
Range of ambient temperature: Maximum operating pressure: Installation set (Yes/No): Installation type: Pump inlet: Pump outlet: Max. Suction lift during operation: Max. Suction lift during priming: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Electrical data: Maximum power input - P1:	232.06 psi YES 0,17x1/4" up to 7,5 l/h,16bar Hose 0,17x1/4" 3 Hose 0,17x1/4" 3 19.7 ft 6.56 ft Water 32 113 °F 68 °F 62.29 lb/ft <sup>3</sup> 24 W	10 - 0 0 0.005 Pumped liquid = Liquid temperati	Water ure during opera	ation = 68 °F		
Range of ambient temperature: Maximum operating pressure: Installation set (Yes/No): Installation type: Pump inlet: Pump outlet: Max. Suction lift during operation: Max. Suction lift during priming: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Electrical data: Maximum power input - P1: Mains frequency:	232.06 psi YES 0,17x1/4" up to 7,5 l/h,16bar Hose 0,17x1/4" 3 Hose 0,17x1/4" 3 19.7 ft 6.56 ft Water 32 113 °F 68 °F 62.29 lb/ft <sup>3</sup> 24 W 50 / 60 Hz	10 - 0 0 0.005 Pumped liquid = Liquid temperati	Water ure during opera	ation = 68 °F		
Range of ambient temperature: Maximum operating pressure: Installation set (Yes/No): Installation type: Pump inlet: Pump outlet: Max. Suction lift during operation: Max. Suction lift during priming: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Electrical data: Maximum power input - P1: Mains frequency: Rated voltage:	232.06 psi YES 0,17x1/4" up to 7,5 l/h,16bar Hose 0,17x1/4" 3 Hose 0,17x1/4" 3 19.7 ft 6.56 ft Water 32 113 °F 68 °F 62.29 lb/ft <sup>3</sup> 24 W 50 / 60 Hz 1 x 100-240 V	10 - 0 0 0.005 Pumped liquid = Liquid temperati	Water ure during opera	ation = 68 °F		
Range of ambient temperature: Maximum operating pressure: Installation set (Yes/No): Installation type: Pump inlet: Pump outlet: Max. Suction lift during operation: Max. Suction lift during priming: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Electrical data: Maximum power input - P1: Mains frequency: Rated voltage: Enclosure class (IEC 34-5):	232.06 psi YES 0,17x1/4" up to 7,5 l/h,16bar Hose 0,17x1/4" 3 Hose 0,17x1/4" 3 19.7 ft 6.56 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	10 - 0 0 0.005 Pumped liquid = Liquid temperati	Water ure during opera	ation = 68 °F		
Range of ambient temperature: Maximum operating pressure: Installation set (Yes/No): Installation type: Pump inlet: Pump outlet: Max. Suction lift during operation: Max. Suction lift during priming: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Electrical data: Maximum power input - P1: Mains frequency: Rated voltage: Enclosure class (IEC 34-5): Length of cable:	232.06 psi YES 0,17x1/4" up to 7,5 l/h,16bar Hose 0,17x1/4" 3 Hose 0,17x1/4" 3 19.7 ft 6.56 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	10 - 0 0 0.005 Pumped liquid = Liquid temperati	Water ure during opera lb/ft <sup>3</sup>	ation = 68 °F		
Range of ambient temperature: Maximum operating pressure: Installation set (Yes/No): Installation type: Pump inlet: Pump outlet: Max. Suction lift during operation: Max. Suction lift during priming: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Electrical data: Maximum power input - P1: Mains frequency: Rated voltage: Enclosure class (IEC 34-5): Length of cable: Type of cable plug:	232.06 psi YES 0,17x1/4" up to 7,5 l/h,16bar Hose 0,17x1/4" 3 Hose 0,17x1/4" 3 19.7 ft 6.56 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	10 - 0 0 0.005 Pumped liquid = Liquid temperati	Water ure during opera	ation = 68 °F		
Range of ambient temperature: Maximum operating pressure: Installation set (Yes/No): Installation type: Pump inlet: Pump outlet: Max. Suction lift during operation: Max. Suction lift during priming: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Electrical data: Maximum power input - P1: Mains frequency: Rated voltage: Enclosure class (IEC 34-5): Length of cable: Type of cable plug: Inrush current:	232.06 psi YES 0,17x1/4" up to 7,5 l/h,16bar Hose 0,17x1/4" 3 Hose 0,17x1/4" 3 19.7 ft 6.56 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	10 - 0 0 0.005 Pumped liquid = Liquid temperati	Water ure during opera lb/ft <sup>3</sup>	ation = 68 °F		
Range of ambient temperature: Maximum operating pressure: Installation set (Yes/No): Installation type: Pump inlet: Pump outlet: Max. Suction lift during operation: Max. Suction lift during priming: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Electrical data: Maximum power input - P1: Mains frequency: Rated voltage: Enclosure class (IEC 34-5): Length of cable: Type of cable plug: Inrush current: Controls:	232.06 psi YES 0,17x1/4" up to 7,5 l/h,16bar Hose 0,17x1/4" 3 Hose 0,17x1/4" 3 19.7 ft 6.56 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 25A at 230V for 2ms	10     0 </td <td>Water ure during opera lb/ft<sup>3</sup></td> <td>ation = 68 °F</td> <td></td> <td></td>	Water ure during opera lb/ft <sup>3</sup>	ation = 68 °F		
Range of ambient temperature: Maximum operating pressure: Installation set (Yes/No): Installation type: Pump inlet: Pump outlet: Max. Suction lift during operation: Max. Suction lift during priming: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Electrical data: Maximum power input - P1: Mains frequency: Rated voltage: Enclosure class (IEC 34-5): Length of cable: Type of cable plug: Inrush current: Controls: Control variant:	232.06 psi YES 0,17x1/4" up to 7,5 l/h,16bar Hose 0,17x1/4" 3 Hose 0,17x1/4" 3 19.7 ft 6.56 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 25A at 230V for 2ms FCM-C	Pumped liquid = Liquid temperat Density = 62.29	Water ure during opera lb/ft <sup>3</sup>	ation = 68 °F		
Range of ambient temperature: Maximum operating pressure: Installation set (Yes/No): Installation type: Pump inlet: Pump outlet: Max. Suction lift during operation: Max. Suction lift during priming: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Electrical data: Maximum power input - P1: Mains frequency: Rated voltage: Enclosure class (IEC 34-5): Length of cable: Type of cable plug: Inrush current: Controls: Control variant: Control panel:	232.06 psi YES 0,17x1/4" up to 7,5 l/h,16bar Hose 0,17x1/4" 3 Hose 0,17x1/4" 3 19.7 ft 6.56 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 25A at 230V for 2ms FCM-C Front-Mounted	Pumped liquid = Liquid temperat Density = 62.29	Water ure during opera lb/ft <sup>3</sup>	ation = 68 °F		
Range of ambient temperature: Maximum operating pressure: Installation set (Yes/No): Installation type: Pump inlet: Pump outlet: Max. Suction lift during operation: Max. Suction lift during priming: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Electrical data: Maximum power input - P1: Mains frequency: Rated voltage: Enclosure class (IEC 34-5): Length of cable: Type of cable plug: Inrush current: Controls: Control variant: Control panel: Level control:	232.06 psi YES 0,17x1/4" up to 7,5 l/h,16bar Hose 0,17x1/4" 3 Hose 0,17x1/4" 3 19.7 ft 6.56 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 25A at 230V for 2ms FCM-C Front-Mounted YES	Pumped liquid = Liquid temperat Density = 62.29	Water ure during opera lb/ft <sup>3</sup>	ation = 68 °F		
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Range of ambient temperature: Maximum operating pressure: Installation set (Yes/No): Installation type: Pump inlet: Pump outlet: Max. Suction lift during operation: Max. Suction lift during operation: Max. Suction lift during priming: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Electrical data: Maximum power input - P1: Mains frequency: Rated voltage: Enclosure class (IEC 34-5): Length of cable: Type of cable plug: Inrush current: Control variant: Control panel: Level control: Analog input: Pulse control:	232.06 psi YES 0,17x1/4" up to 7,5 l/h,16bar Hose 0,17x1/4" 3 Hose 0,17x1/4" 3 19.7 ft 6.56 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 25A at 230V for 2ms FCM-C Front-Mounted YES 0/4-20 MA YES	Pumped liquid = Liquid temperat Density = 62.29	Water ure during opera lb/ft <sup>3</sup>	ation = 68 °F		
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 Date:
 03/02/2025

 Description
 Value

 Net weight:
 4.41 lb

 Gross weight:
 6.62 lb

 Color:
 RED

 Country of origin:
 US

 Custom tariff no.:
 8413.19.0000

