Submittal Data

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

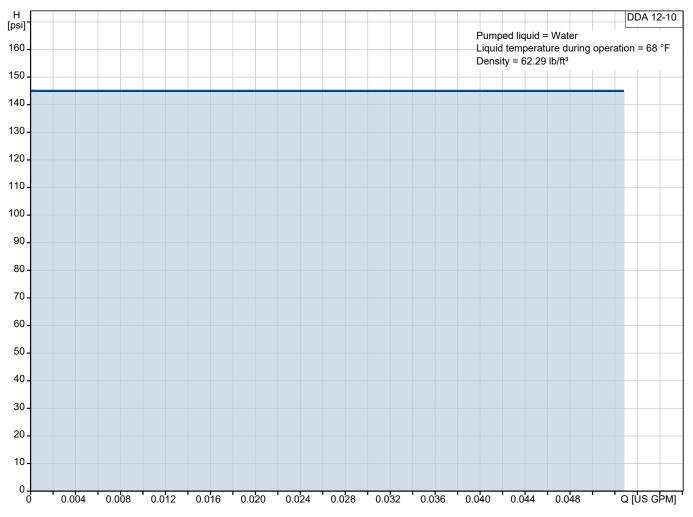


Note! Product picture may differ from actual product

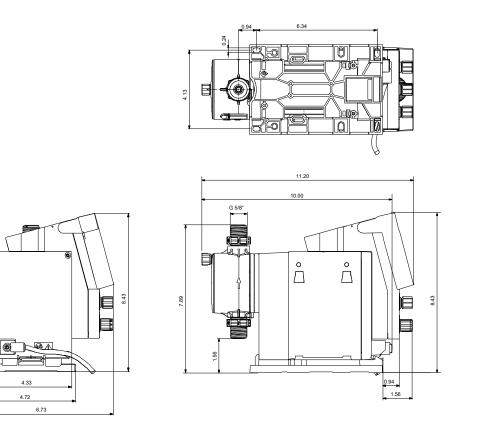
DDA 12-10 AR-C-PV/E/C-F-31I004BG

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:	145.04 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:	93065221		



Submittal Data





Dosing head: Valve ball: Gasket:

PVDF (Polyvinylidene fluoride) Ceramic EPDM



Company name: Created by:

GRUNDFOS 🔀 Pho	ine:
Date	e: 05/02/2025
Description	
DDA 12-10 AR-C-PV/E/C-F-311004BG	
Note! Product picture may dif	ffer from actual product
Product No.: 93065221	
The SMART Digital DDA-C is a compact positive-displacement (stepper motor) and intelligent control electronics with minimum	um energy consumption.
The SMART Digital Dosing series operates at full stroke lengt even for high-viscosity or degassing liquids.	
Depending on the set capacity, the duration of the discharge s continuous discharge flow.	
The click-stop mounting plate allows installation in three differ	rent positions without using any additional accessories.
The control cube can be easily turned to the front, left or right The click wheel and the multi-coloured backlit graphic plain-te operation. The control elements are protected by a transparent cover. The DDA-C has built-in connectivity that allows easy setup ar	ext LC display enable intuitive commissioning and
integration into a Modbus RTU or TCP bus system. The dosing head includes the following parts:	
A durable and chemically resistant full PTFE diaphrage	m,
Double ball valves for maximum dosing accuracy,A deaeration valve for easy start-up.	
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 wee 	эк).
 Fieldbus control (integrated Modbus RTU and TCP; Pr models). 	rofibus DP, Profinet and Ethernet IP via CIM/CIU
Cloud control and monitoring (Smart Digital Chempairi	ing Suite; Grundfos Connect).
Other features:	
 Auto deaeration during pump standby to avoid stand-s Two SlowMode steps (anti-cavitation), 50 % and 25 % liquids. 	
Max. Capacity to limit the capacity of the pump to a se	
Service information display to show when service and The standard function to prove the service and The service and the service and The standard function to prove the service and The	
 Two-step key lock function to protect the pump agains Multi-parameter dashboard function to provide further 	
Counter for total dosed volume (resettable), operating	
Save, copy and load customised settings as well as re	
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 nump doging
timer etc.)	(connigurable, e.g. alann, subre signal, puttip dosilig,

	GRUNDFOS 🕅	Company name: Created by: Phone:	
		Date:	05/02/2025
Qty.			



Company name: Created by: Phone:

05/02/2025 Date: 93065221 DDA 12-10 AR-C-PV/E/C-F-311004BG H [psi]_ DDA 12-10 160 150 140 130 120 110 100 90 80 70 60. 50 40 30 20 10 0 0 0.012 0.020 0.024 0.028 0.032 Q [US GPM] 0.004 0.008 0.016 0.036 0.040 0.044 0.048

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Liquid temperature during operation = 68 °F

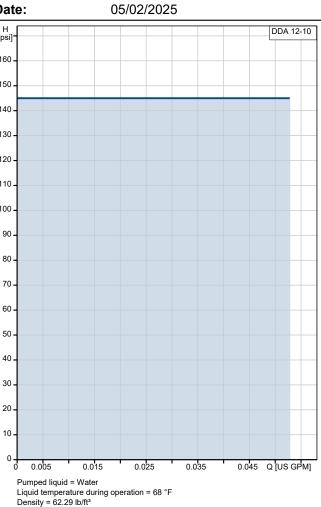
Pumped liquid = Water

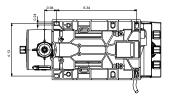
Density = 62.29 lb/ft3



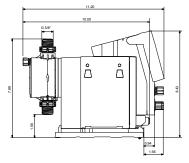
Company name: Created by: Phone:

		Date:	
Description	Value	H [psi]	
General information:		- 160 -	
Product name:	DDA 12-10 AR-C-PV/E/C-F-31I004BG	150 -	
Product No:	93065221		
EAN number:	5715467281699	140 -	
Technical:		400	
Type key:	DDA 12-10 AR-C-PV/E/C-F-31I004	130 - 120 -	
Max. Flow:	0.05283 US GPM	120-	
Max. flow in slow mode 50%:	0.02642 US GPM	110	
Max. flow in slow mode 25%:	0.01321 US GPM	-	
Min flow:	12.0 ml/h	100 -	
Turn-down ratio:	1:1000	90 -	
Approvals:	CE,CSA-US,NSF61,RCM	-	
Valve type:	Standard	80 -	
Maximum viscosity at 100 %:	300 mPas	70 -	
Maximum viscosity in slow mode 50 %:	1300 mPas	60 -	
Maximum viscosity in slow mode 25 %:	2500 mPas	50 -	
Accuracy of repeatability:	1 %		
Materials:		40 -	
Dosing head:	PVDF (Polyvinylidene fluoride)	30 -	
Valve ball:	Ceramic	30 -	
Gasket:	EPDM	20 -	
Installation:		-	
Range of ambient temperature:	32 113 °F	10 -	
Maximum operating pressure:	145.04 psi	0	
Installation set (Yes/No):	YES	0 0.	00
Installation type:	3/8"x1/2" up to 60 l/h,10bar	Pump	
Pump inlet:	Hose 3/8x1/2" S	Liquid Densi	
Pump outlet:	Hose 3/8x1/2" S		
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		
Mains frequency:	50 / 60 Hz		T
Rated voltage:	1 x 100-240 V		Ц
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:			3
Control variant:	AR-C	4.33	
Control panel:	Front-Mounted	-	6.73
Level control:	YES		
Analog input:	0/4-20 MA		
Pulse control:	YES		
Ext. Stop input:	Yes		
Analog output:	0/4-20 MA		
Output relays:	2		
Bus communication:	YES		
Others:			











Company name: Created by: Phone:

Date:05/02/2025DescriptionValueNet weight:6.62 lbGross weight:6.62 lbColor:REDCountry of origin:USCustom tariff no.:8413.19.0000

