

Submittal Data

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

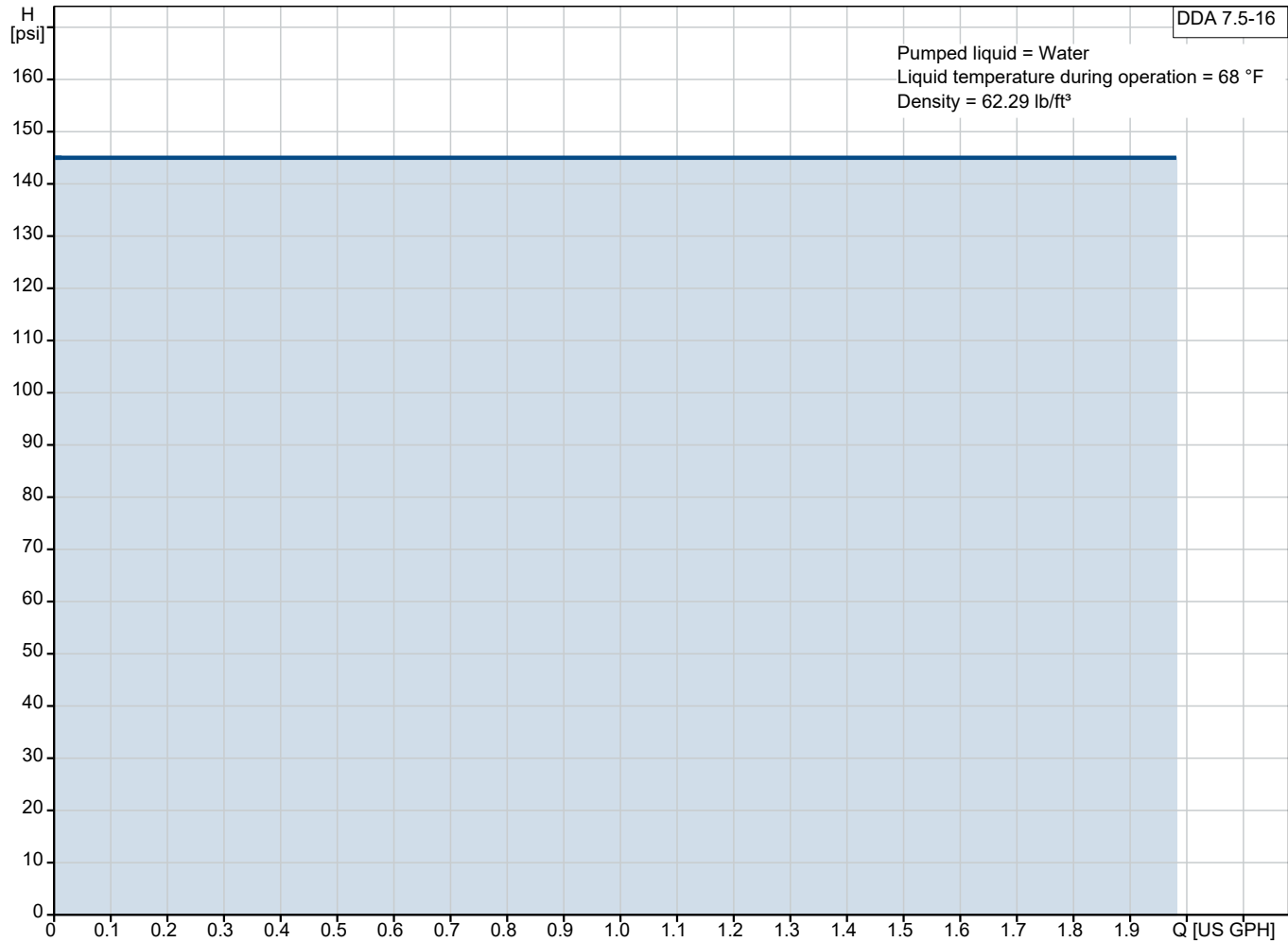


DDA 7.5-16 AR-PVC/E/C-F-31I003BG

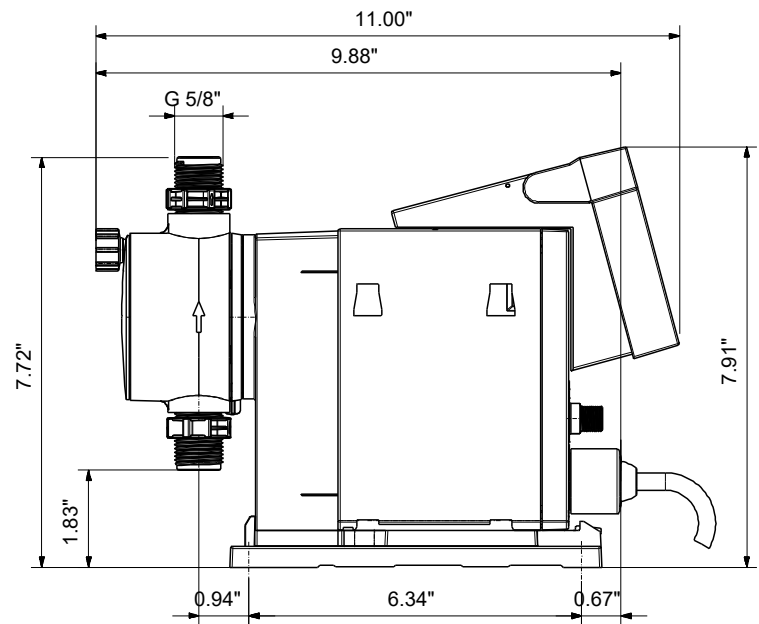
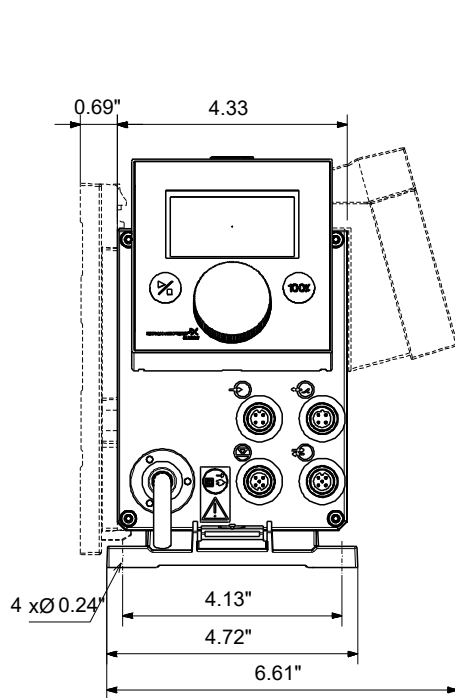
SMART Digital diaphragm dosing pump with internal brushless motor drive. High-end solution for complex and demanding applications (Digital Dosing Advanced).

Note! Product picture may differ from actual product

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: On request	



Submittal Data



Materials:

Dosing head: PVC (Polyvinyl chloride)

Valve ball: Ceramic

Gasket: EPDM

Qty. Description

1 DDA 7.5-16 AR-PVC/E/C-F-31I003BG



Note! Product picture may differ from actual product

Product No.: On request

DDA 7.5-16 AR-PVC/E/C-F-31I003

The SMART Digital DDA 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.

The duration of each discharge stroke varies according to the capacity set, resulting in optimum smooth 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 turned easily into front, left or right position.

The click wheel and the multi-coloured backlit graphical, plain-text LC display make commissioning and operation intuitive.

The control elements are protected by a transparent cover.

The dosing head is composed of:

- Long lifetime and universal, chemically resistant full-PTFE diaphragm.
- Double ball valves for highest dosing accuracy.
- Deaeration valve for easy start-up.

Operation modes:

- 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, l or gal.
- Timer-based batch function (Dosing timer, cycle or week).
- Fieldbus control (Genibus prepared for ProfibusDP E-box).

Other features:

- Auto deaeration during pump standby to avoid breakdowns due to air-locking.
- Two SlowMode steps (anti-cavitation), 50 % (maximum flow= 0.9906 US GPH) and 25 % (maximum flow= 0.4966 US GPH), e.g. for high-viscosity or degassing liquids.
- Service information display to show when service and which wear-part order number is required.
- Two-step key lock function to protect the pump against unauthorised access.
- Additional display function to provide further information, e.g. the actual mA input signal.
- Counter for total dosed volume (resettable), operating hours, etc.
- Save and load customised settings as well as reload of 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 communication interface (GeniBus, also for additional Profibus DP E-box to retrofit).

Installation set includes:



Company name:

Created by:

Phone:

Date:

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Qty.	Description
1	<ul style="list-style-type: none">- 2 pump connections (Hose 0,17x1/4" 3).- Foot valve (without level switch).- Injection unit.- 6 m PE discharge hose.- 2 m PVC suction hose.- 2 m PVC deaeration hose (4/6 mm). <p>Technical:</p> <p>Type key: DDA 7.5-16 AR-PVC/E/C-F-31I003</p> <p>Max. Flow: 1.981 US GPH</p> <p>Max. flow in slow mode 50%: 0.9906 US GPH</p> <p>Max. flow in slow mode 25%: 0.4966 US GPH</p> <p>Min flow: 2.5 ml/h</p> <p>Turn-down ratio: 1:3000</p> <p>Approvals: CE,CSA-US,NSF61,RCM</p> <p>Valve type: Standard</p> <p>Maximum viscosity at 100 %: 50 mPas</p> <p>Maximum viscosity in slow mode 50 %: 1800 mPas</p> <p>Maximum viscosity in slow mode 25 %: 2500 mPas</p> <p>Accuracy of repeatability: 1 %</p> <p>Materials:</p> <p>Dosing head: PVC (Polyvinyl chloride)</p> <p>Valve ball: Ceramic</p> <p>Gasket: EPDM</p> <p>Installation:</p> <p>Range of ambient temperature: 32 .. 113 °F</p> <p>Maximum operating pressure: 145.04 psi</p> <p>Installation set (Yes/No): YES</p> <p>Installation type: 0,17x1/4" up to 7,5 l/h,16bar</p> <p>Pump inlet: Hose 0,17x1/4" 3</p> <p>Pump outlet: Hose 0,17x1/4" 3</p> <p>Max. Suction lift during operation: 19.7 ft</p> <p>Max. Suction lift during priming: 6.56 ft</p> <p>Liquid:</p> <p>Pumped liquid: Water</p> <p>Liquid temperature range: 32 .. 113 °F</p> <p>Selected liquid temperature: 68 °F</p> <p>Density: 62.29 lb/ft³</p> <p>Electrical data:</p> <p>Maximum power input - P1: 24 W</p> <p>Mains frequency: 50 / 60 Hz</p> <p>Rated voltage: 1 x 100-240 V</p> <p>Enclosure class (IEC 34-5): IP65 / TYPE 4X</p> <p>Length of cable: 4.92 ft</p> <p>Type of cable plug: USA, Canada</p> <p>Inrush current: 25A at 230V for 2ms</p> <p>Controls:</p> <p>Control variant: AR</p> <p>Level control: YES</p> <p>Analog input: 0/4-20 MA</p> <p>Pulse control: YES</p> <p>Ext. Stop input: Yes</p>



Company name:

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Qty.	Description
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1	Analog output: 0/4-20 MA
	Output relays: 2
	Bus communication: YES
	Others:
	Net weight: 4.41 lb
	Gross weight: 6.62 lb
	Color: RED
	Country of origin: US
	Custom tariff no.: 8413.50.0050



Company name:

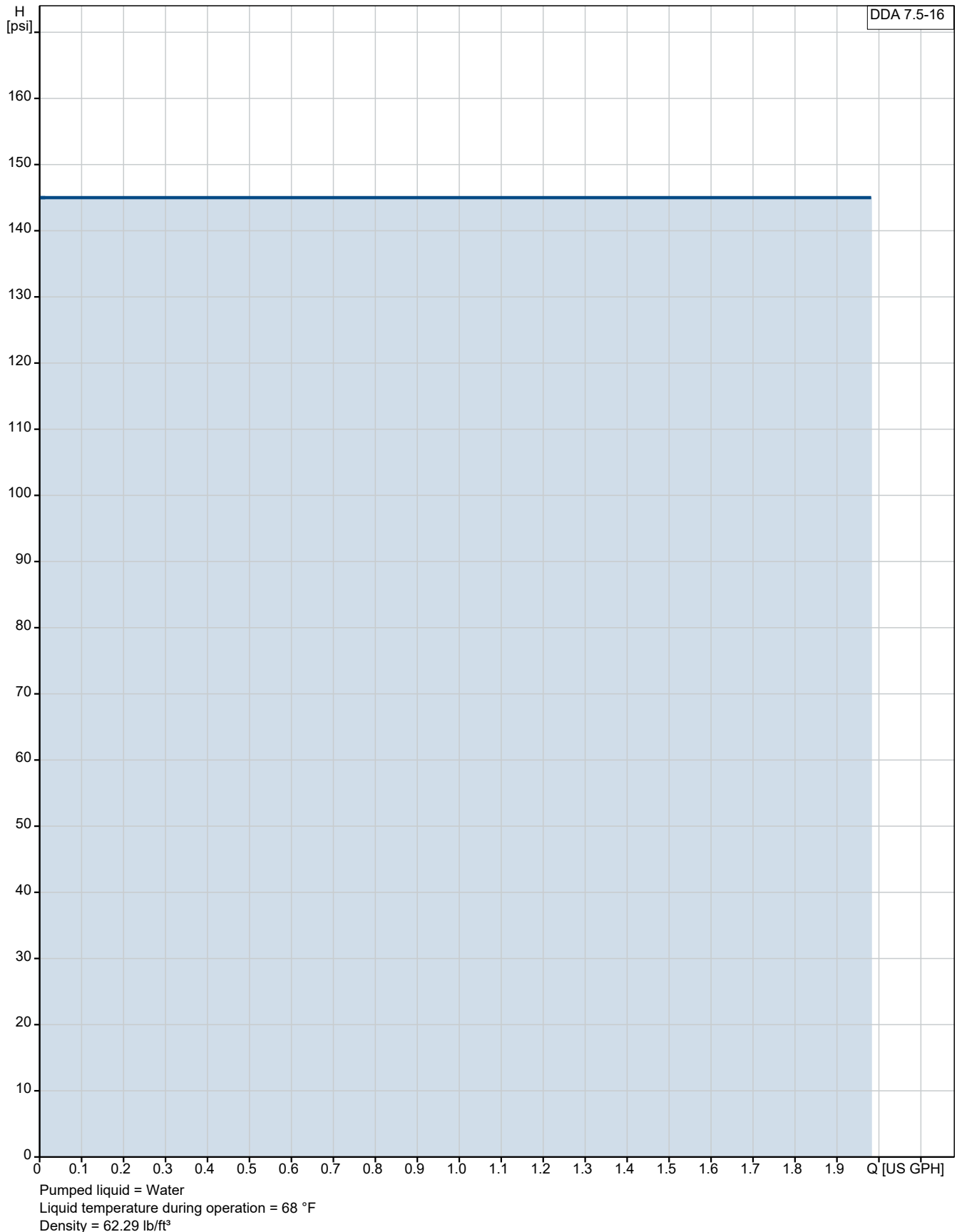
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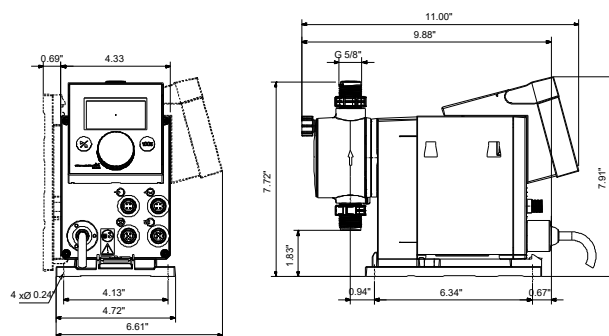
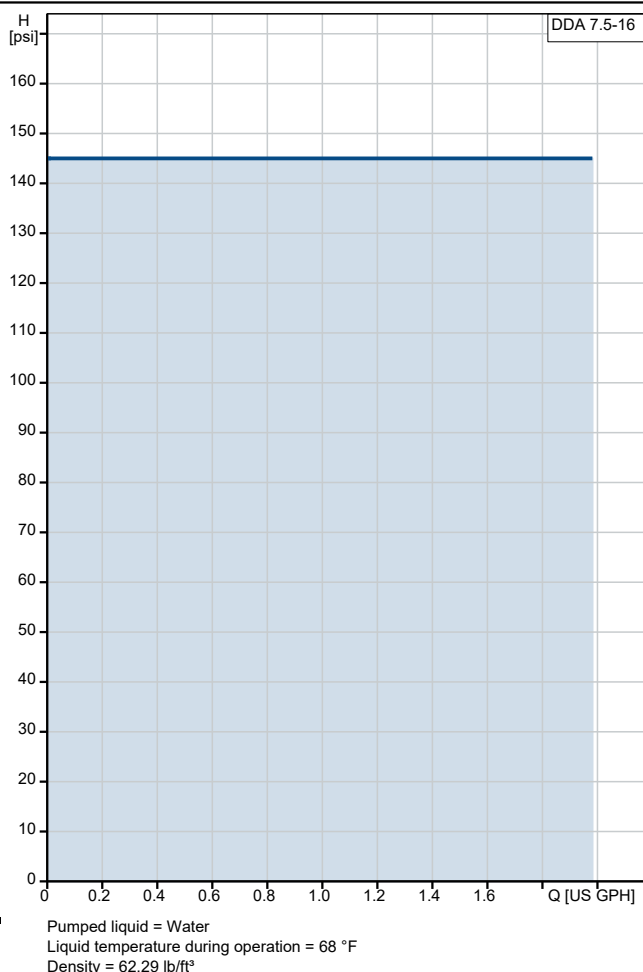
Date:

04/02/2025

On request DDA 7.5-16 AR-PVC/E/C-F-31I003BG



Description	Value
General information:	
Product name:	DDA 7.5-16 AR-PVC/E/C-F-31I003BG
Product No:	On request
EAN number:	On request
Technical:	
Type key:	DDA 7.5-16 AR-PVC/E/C-F-31I003
Max. Flow:	1.981 US GPH
Max. flow in slow mode 50%:	0.9906 US GPH
Max. flow in slow mode 25%:	0.4966 US GPH
Min flow:	2.5 ml/h
Turn-down ratio:	1:3000
Approvals:	CE,CSA-US,NSF61,RCM
Valve type:	Standard
Maximum viscosity at 100 %:	50 mPas
Maximum viscosity in slow mode 50 %:	1800 mPas
Maximum viscosity in slow mode 25 %:	2500 mPas
Accuracy of repeatability:	1 %
Materials:	
Dosing head:	PVC (Polyvinyl chloride)
Valve ball:	Ceramic
Gasket:	EPDM
Installation:	
Range of ambient temperature:	32 .. 113 °F
Maximum operating pressure:	145.04 psi
Installation set (Yes/No):	YES
Installation type:	0,17x1/4" up to 7,5 l/h,16bar
Pump inlet:	Hose 0,17x1/4" 3
Pump outlet:	Hose 0,17x1/4" 3
Max. Suction lift during operation:	19.7 ft
Max. Suction lift during priming:	6.56 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
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:	AR
Control panel:	Front-Mounted
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:

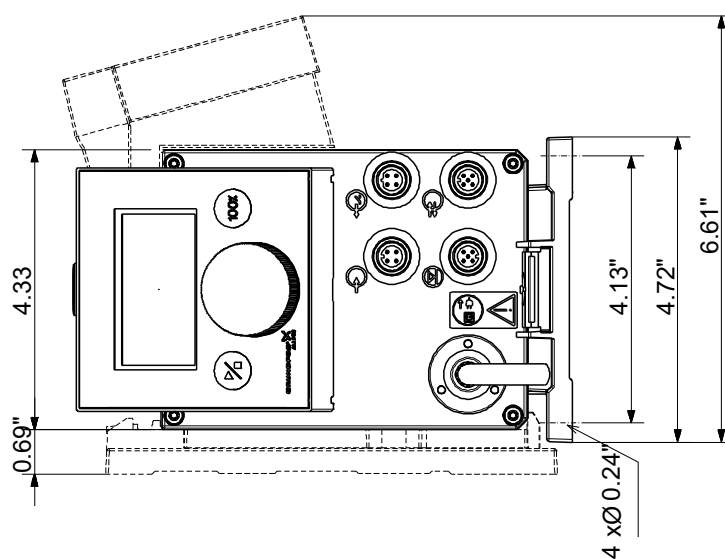
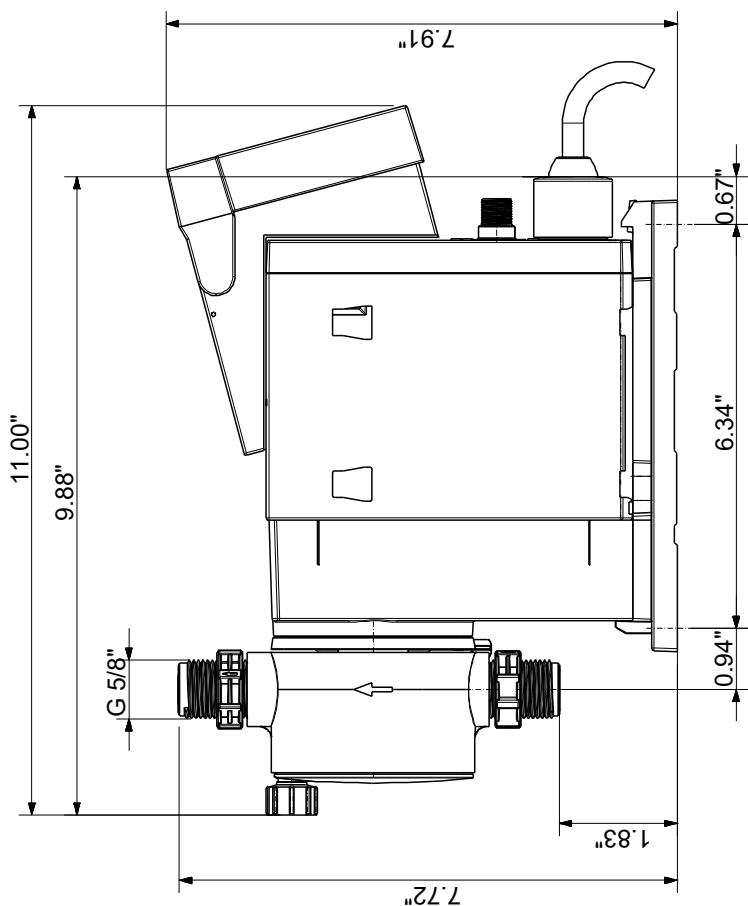
Phone:

Date:

04/02/2025

Description	Value
Net weight:	4.41 lb
Gross weight:	6.62 lb
Color:	RED
Country of origin:	US
Custom tariff no.:	8413.50.0050

On request DDA 7.5-16 AR-PVC/E/C-F-31I003BG



Note! All units are in [in] unless others are stated.

Disclaimer: This simplified dimensional drawing does not show all details.