

Submittal Data

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

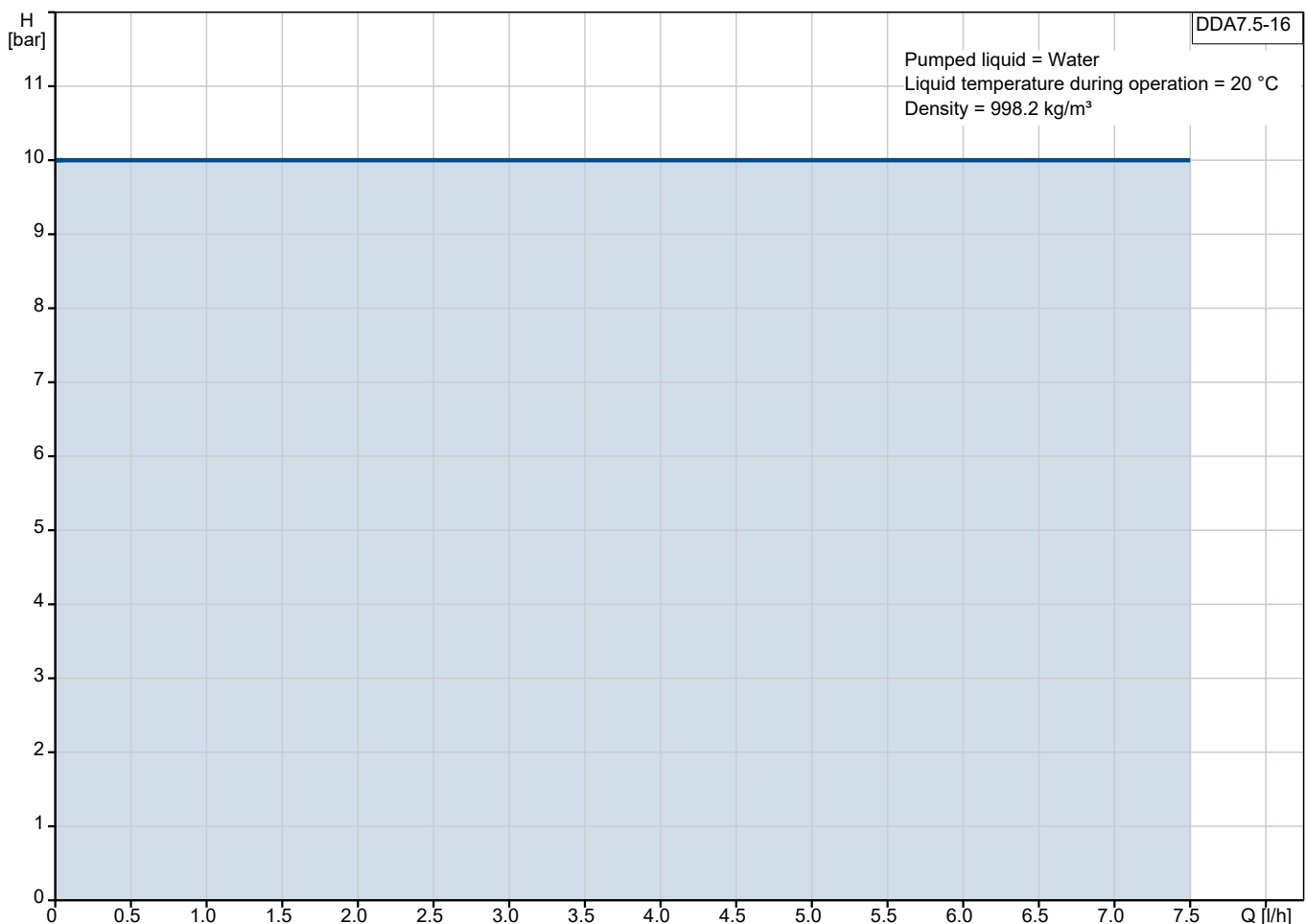
DDA7.5-16 AR-PVC/V/C-F-31U2U2FG



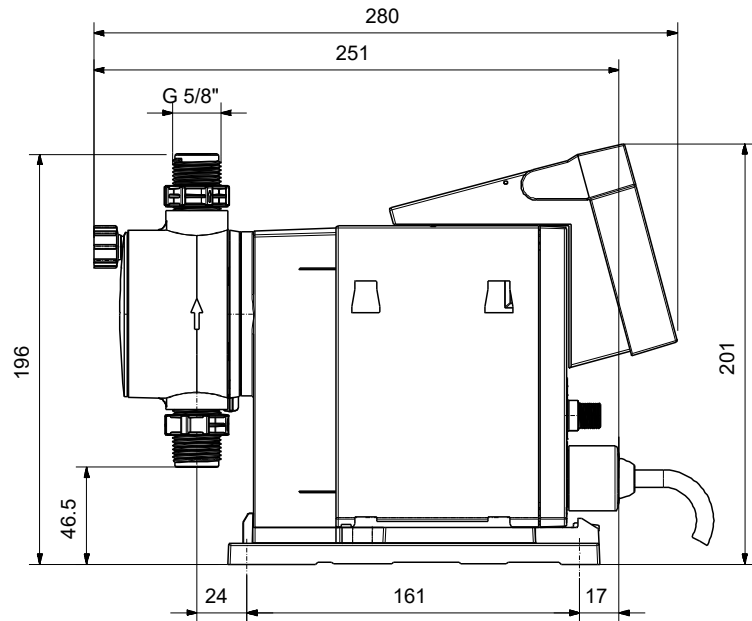
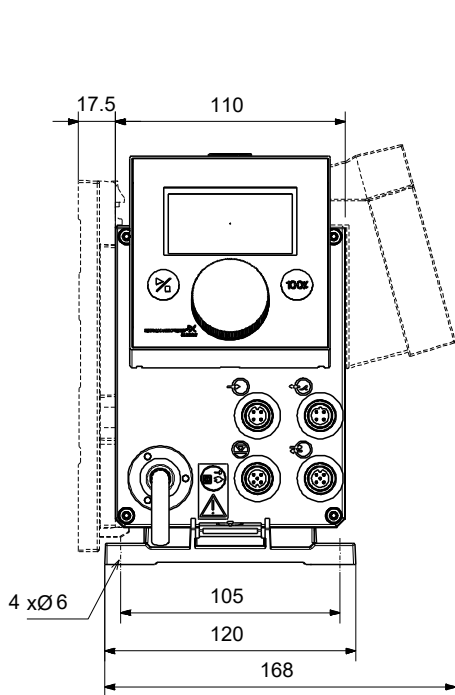
SMART Digital diaphragm dosing pump with internal brushless motor drive. High-end solution for complex and demanding applications (Digital Dosing Advanced).

Note! Product picture may differ from actual product

Conditions of Service		Pump Data		Motor Data	
Liquid:	Water	Maximum operating pressure:	10 bar	Rated voltage:	100-240 V
Temperature:	20 °C	Liquid temperature range:	-10 .. 45 °C	Mains frequency:	50 / 60 Hz
Specific Gravity:	1.000	Maximum ambient temperature:	45 °C	Enclosure class:	IP65 / NEMA 4X
		Approvals:	CE, CSA-US, NSF61, EAC, RCM		
		Product number:	On request		



Submittal Data



Materials:

Dosing head: PVC (Polyvinyl chloride)

Valve ball: Ceramic

Gasket: FKM

Qty.	Description
------	-------------

1	DDA7.5-16 AR-PVC/V/C-F-31U2U2FG
---	---------------------------------



Note! Product picture may differ from actual product

Product No.: On request
DDA 7.5-16 AR-PVC/V/C-F-31U2U2

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= 3.75 l/h) and 25 % (maximum flow= 1.88 l/h), 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:

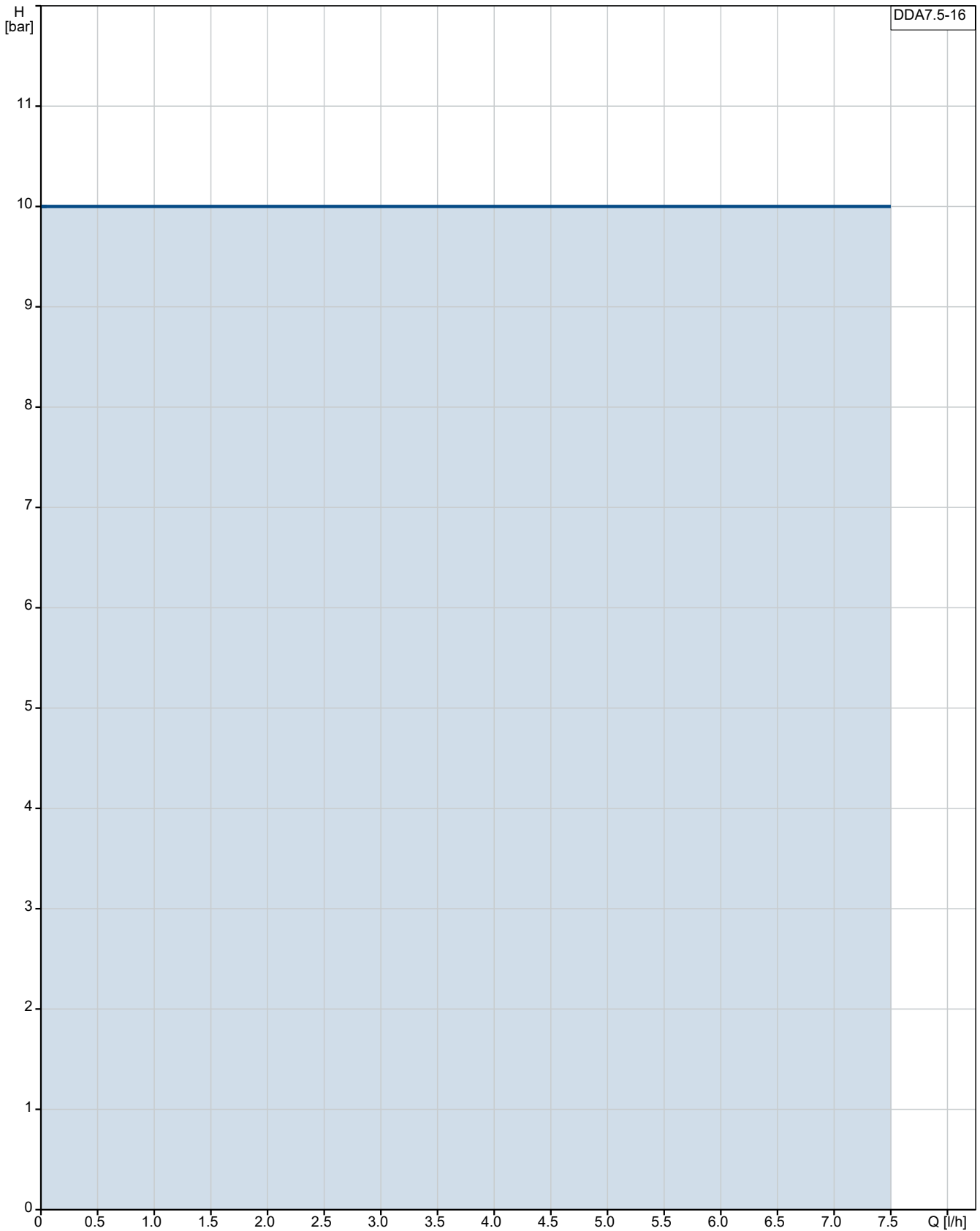
- Input for pulse, analog 0/4-20mA, external stop.
- Input for low-level and empty-tank signal.
- Two potential-free output relays for max. 30 V AC/DC (configurable, e.g. alarm, stroke signal, pump dosing, timer etc.)
- Output analog 0/4-20mA.
- Fieldbus communication interface (GeniBus, also for additional Profibus DP E-box to retrofit).

Technical:

Type key: DDA 7.5-16 AR-PVC/V/C-F-31U2U2

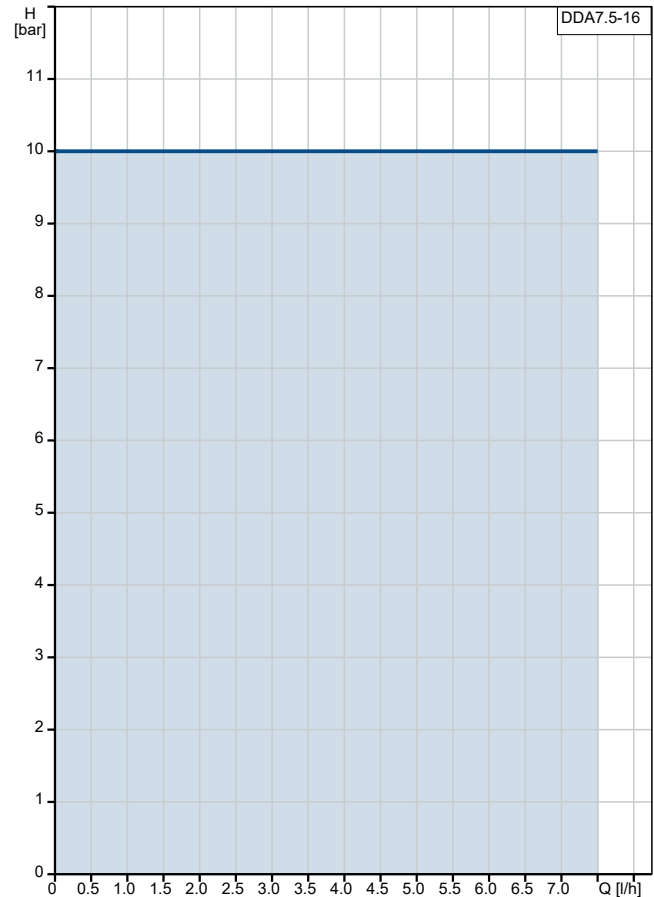
Qty.	Description
1	<p> Max. Flow: 7.5 l/h Max. flow in slow mode 50%: 3.75 l/h Max. flow in slow mode 25%: 1.88 l/h Min flow: 2.5 ml/h Turn-down ratio: 1:3000 Approvals: CE,CSA-US,NSF61,EAC,RCM Valve type: Standard Maximum viscosity at 100 %: 50 mPas Maximum viscosity in slow mode 50 %: 1800 mPas Maximum viscosity in slow mode 25 %: 2500 mPas Accuracy of repeatability: 1 % </p> <p> Materials: Dosing head: PVC (Polyvinyl chloride) Valve ball: Ceramic Gasket: FKM </p> <p> Installation: Range of ambient temperature: 0 .. 45 °C Maximum operating pressure: 10 bar Installation set: NO Installation type: No installation set Pump inlet: 4/6, 6/9, 6/12, 9/12 mm Pump outlet: 4/6, 6/9, 6/12, 9/12 mm Max. Suction lift during operation: 6 m Max. Suction lift during priming: 2 m </p> <p> Liquid: Pumped liquid: Water Liquid temperature range: -10 .. 45 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ </p> <p> 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 / NEMA 4X Length of cable: 1.5 m Type of cable plug: EU Inrush current: 25A at 230V for 2ms </p> <p> Controls: Control variant: AR 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 </p> <p> Others: Net weight: 2 kg Gross weight: 3 kg Color: RED Finnish LVI No.: 4981119 </p>

On request DDA7.5-16 AR-PVC/V/C-F-31U2U2FG

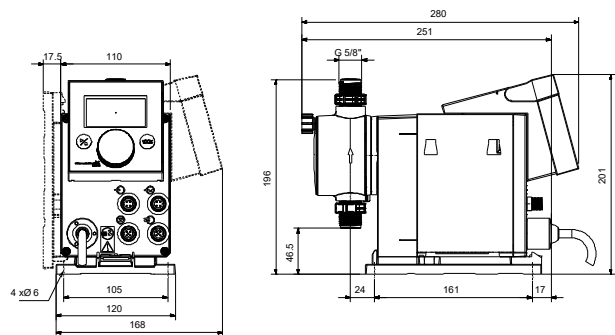


Pumped liquid = Water
Liquid temperature during operation = 20 °C
Density = 998.2 kg/m³

Description	Value
General information:	
Product name:	DDA7.5-16 AR-PVC/V/C-F-31U2U2FG
Product No:	On request
EAN number:	On request
Technical:	
Type key:	DDA 7.5-16 AR-PVC/V/C-F-31U2U2
Max. Flow:	7.5 l/h
Max. flow in slow mode 50%:	3.75 l/h
Max. flow in slow mode 25%:	1.88 l/h
Min flow:	2.5 ml/h
Turn-down ratio:	1:3000
Approvals:	CE, CSA-US, NSF61, EAC, 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:	FKM
Installation:	
Range of ambient temperature:	0 .. 45 °C
Maximum operating pressure:	10 bar
Installation set:	NO
Installation type:	No installation set
Pump inlet:	4/6, 6/9, 6/12, 9/12 mm
Pump outlet:	4/6, 6/9, 6/12, 9/12 mm
Max. Suction lift during operation:	6 m
Max. Suction lift during priming:	2 m
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-10 .. 45 °C
Selected liquid temperature:	20 °C
Density:	998.2 kg/m 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 / NEMA 4X
Length of cable:	1.5 m
Type of cable plug:	EU
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:	
Net weight:	2 kg



Pumped liquid = Water
 Liquid temperature during operation = 20 °C
 Density = 998.2 kg/m³

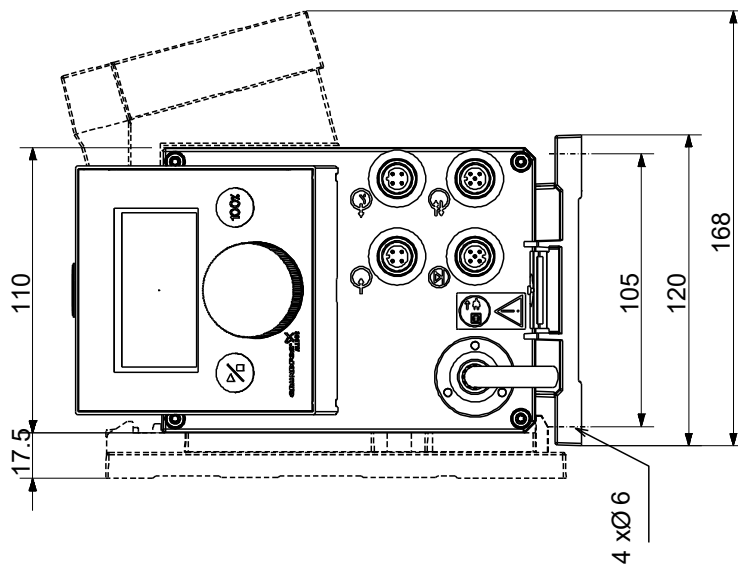
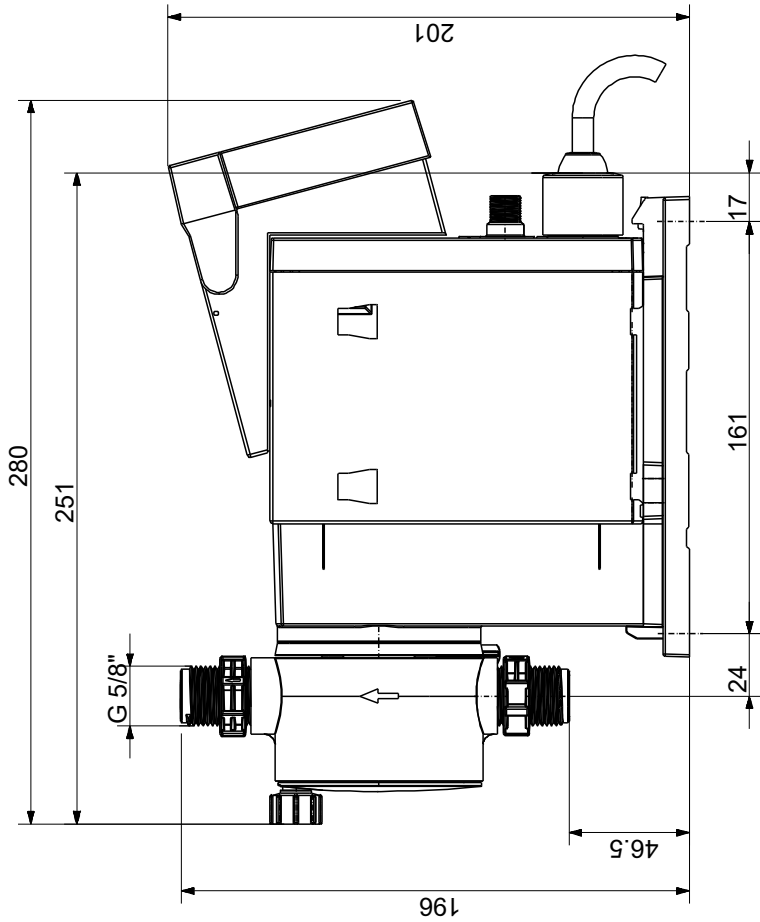




Company name: Al Mawared Engineering & Trading S.A.E (MET)
Created by: Mostafa Mohamed
Phone: 02 26421242 - 01223033998
Email: info@met-eg.com - Almawared@link.net
Date: 08/10/2023

Description	Value
Gross weight:	3 kg
Color:	RED
Finnish LVI No.:	4981119

On request DDA7.5-16 AR-PVC/V/C-F-31U2U2FG



Note! All units are in [mm] unless others are stated.
 Disclaimer: This simplified dimensional drawing does not show all details.

