

# Submittal Data

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

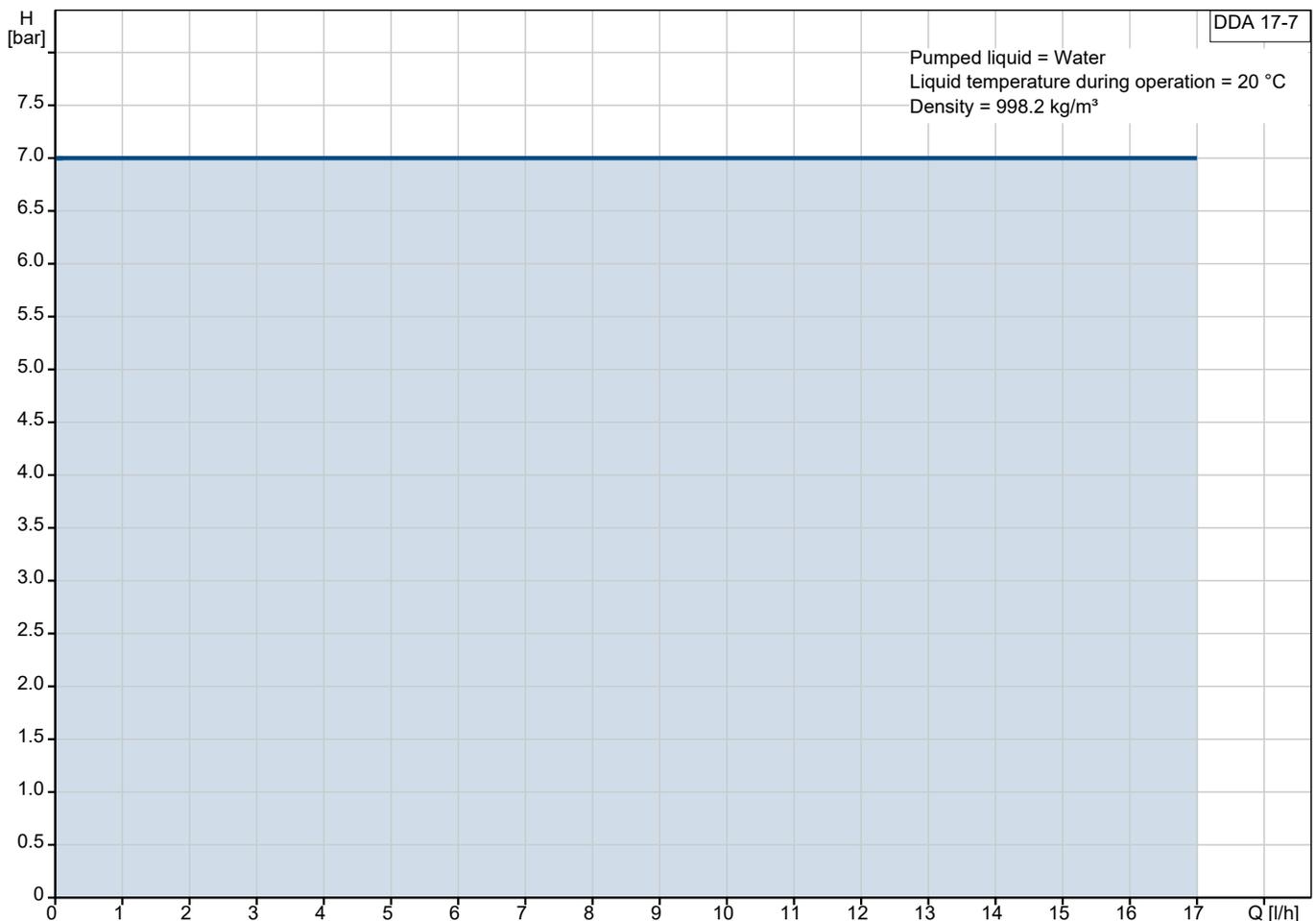
## DDA 17-7 AR-SS/T/SS-F-31AAFG



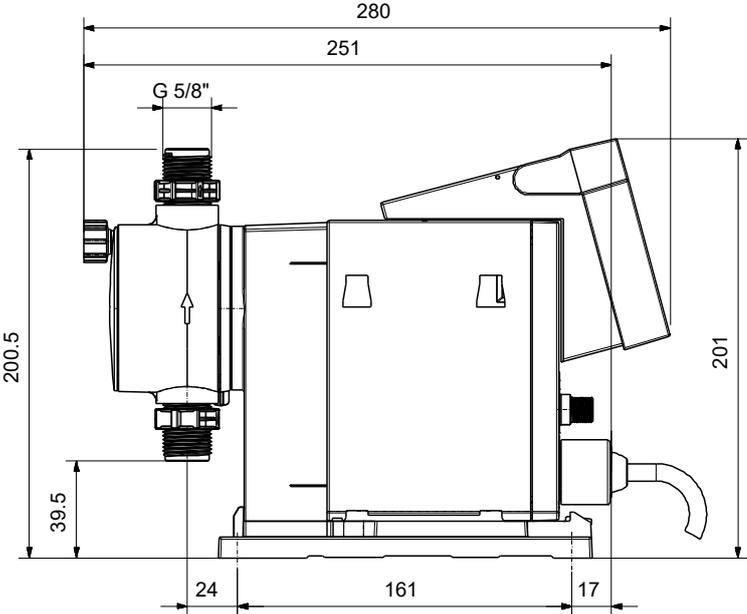
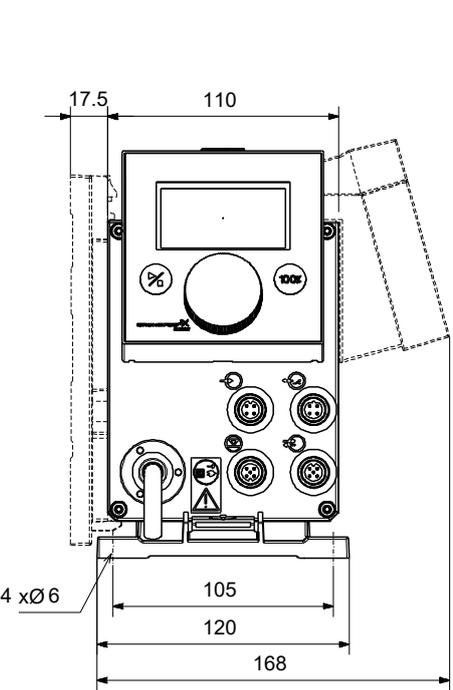
SMART Digital diaphragm dosing pump with internal brushless motor drive. High-end solution for complex and demanding applications (Digital Dosing Advanced).

Note! Product picture may differ from actual product

Conditions of Service		Pump Data		Motor Data	
Liquid:	Water	Maximum operating pressure:	7 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: Stainless Steel 1.4435
  - Valve ball: Stainless steel
  - Gasket: PTFE

**Qty. Description**

1 **DDA 17-7 AR-SS/T/SS-F-31AAFG**



**Note! Product picture may differ from actual product**

Product No.: On request  
DDA 17-7 AR-SS/T/SS-F-31AAFG

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= 8.5 l/h) and 25 % (maximum flow= 4.25 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:

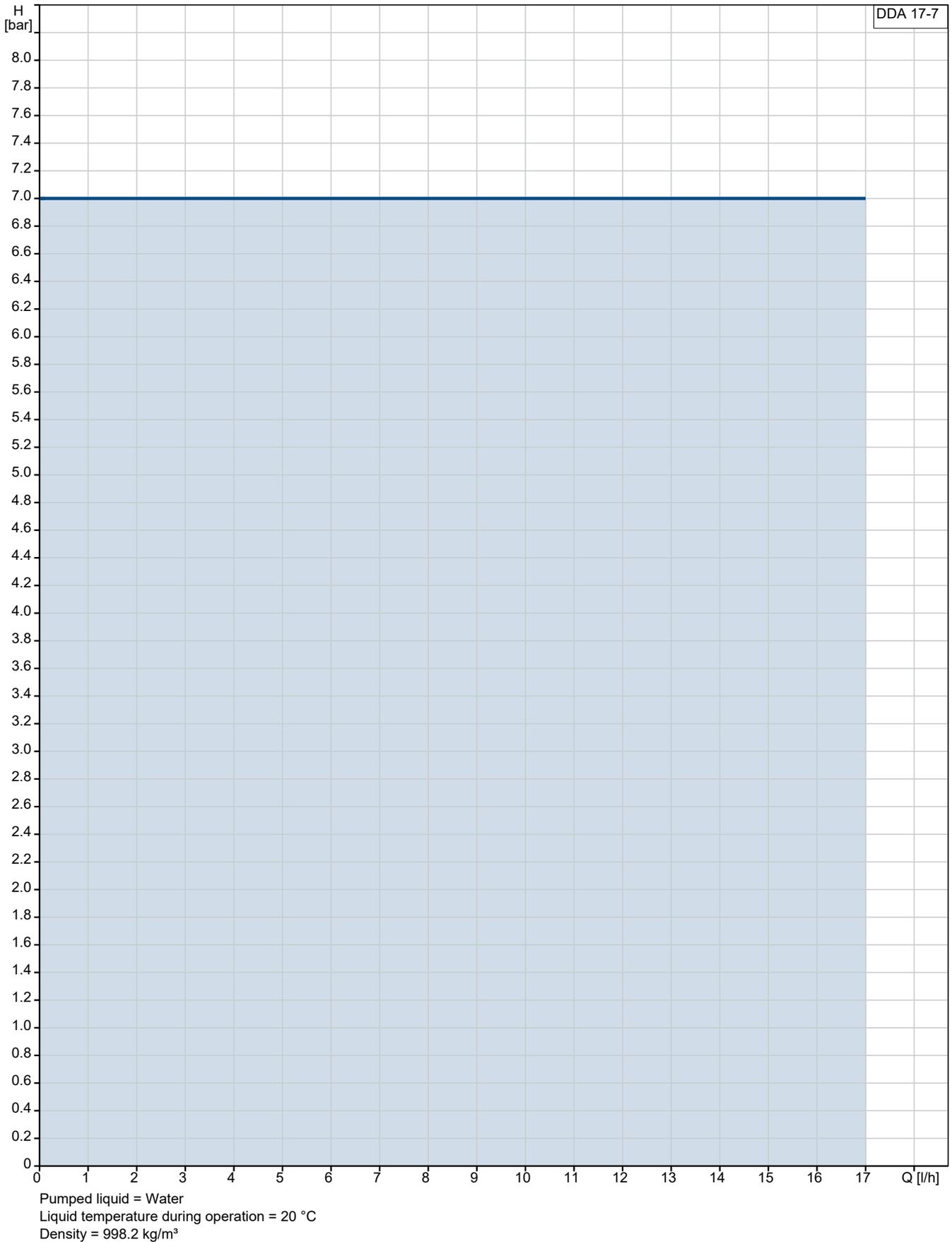
- Input for pulse, analog 0/4-20mA, external stop.
- Input for low-level and empty-tank signal.
- Two potential-free output relays for max. 30 V AC/DC (configurable, e.g. alarm, stroke signal, pump dosing, timer etc.)
- Output analog 0/4-20mA.
- Fieldbus communication interface (GeniBus, also for additional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

Technical:

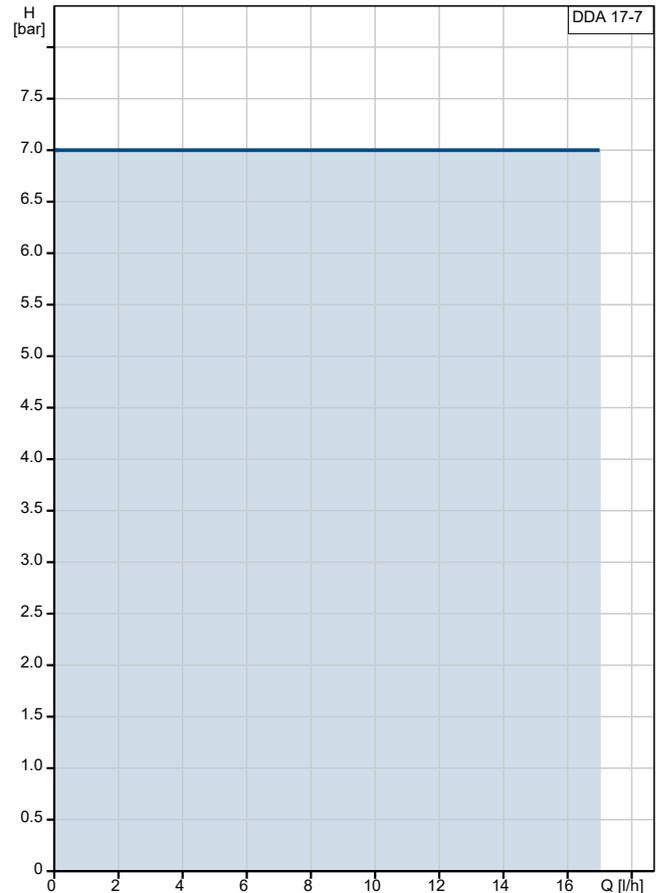
Type key: DDA 17-7 AR-SS/T/SS-F-31AAFG

Qty.	Description
1	<p>           Max. Flow: 17 l/h            Max. flow in slow mode 50%: 8.5 l/h            Max. flow in slow mode 25%: 4.25 l/h            Min flow: 17.0 ml/h            Turn-down ratio: 1:1000            Approvals: CE,CSA-US,NSF61,EAC,RCM            Valve type: Standard            Maximum viscosity at 100 %: 300 mPas            Maximum viscosity in slow mode 50 %: 1300 mPas            Maximum viscosity in slow mode 25 %: 2000 mPas            Accuracy of repeatability: 1 %         </p> <p> <b>Materials:</b>            Dosing head: Stainless Steel 1.4435            Valve ball: Stainless steel            Gasket: PTFE         </p> <p> <b>Installation:</b>            Range of ambient temperature: 0 .. 45 °C            Maximum operating pressure: 7 bar            Installation set: NO            Installation type: No installation set            Pump inlet: Threaded, Rp 1/4"            Pump outlet: Threaded, Rp 1/4"            Max. Suction lift during operation: 6 m            Max. Suction lift during priming: 3 m         </p> <p> <b>Liquid:</b>            Pumped liquid: Water            Liquid temperature range: -10 .. 45 °C            Selected liquid temperature: 20 °C            Density: 998.2 kg/m<sup>3</sup> </p> <p> <b>Electrical data:</b>            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> <b>Controls:</b>            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> <b>Others:</b>            Net weight: 3 kg            Gross weight: 3 kg            Color: RED         </p>

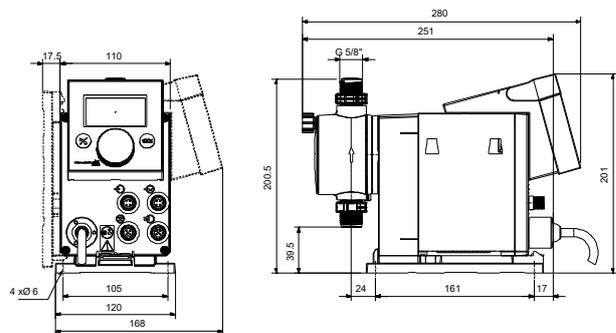
## On request DDA 17-7 AR-SS/T/SS-F-31AAFG



Description	Value
<b>General information:</b>	
Product name:	DDA 17-7 AR-SS/T/SS-F-31AAFG
Product No:	On request
EAN number:	On request
<b>Technical:</b>	
Type key:	DDA 17-7 AR-SS/T/SS-F-31AAFG
Max. Flow:	17 l/h
Max. flow in slow mode 50%:	8.5 l/h
Max. flow in slow mode 25%:	4.25 l/h
Min flow:	17.0 ml/h
Turn-down ratio:	1:1000
Approvals:	CE, CSA-US, NSF61, EAC, RCM
Valve type:	Standard
Maximum viscosity at 100 %:	300 mPas
Maximum viscosity in slow mode 50 %:	1300 mPas
Maximum viscosity in slow mode 25 %:	2000 mPas
Accuracy of repeatability:	1 %
<b>Materials:</b>	
Dosing head:	Stainless Steel 1.4435
Valve ball:	Stainless steel
Gasket:	PTFE
<b>Installation:</b>	
Range of ambient temperature:	0 .. 45 °C
Maximum operating pressure:	7 bar
Installation set:	NO
Installation type:	No installation set
Pump inlet:	Threaded, Rp 1/4"
Pump outlet:	Threaded, Rp 1/4"
Max. Suction lift during operation:	6 m
Max. Suction lift during priming:	3 m
<b>Liquid:</b>	
Pumped liquid:	Water
Liquid temperature range:	-10 .. 45 °C
Selected liquid temperature:	20 °C
Density:	998.2 kg/m <sup>3</sup>
<b>Electrical data:</b>	
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
<b>Controls:</b>	
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
<b>Others:</b>	
Net weight:	3 kg



Pumped liquid = Water  
 Liquid temperature during operation = 20 °C  
 Density = 998.2 kg/m<sup>3</sup>

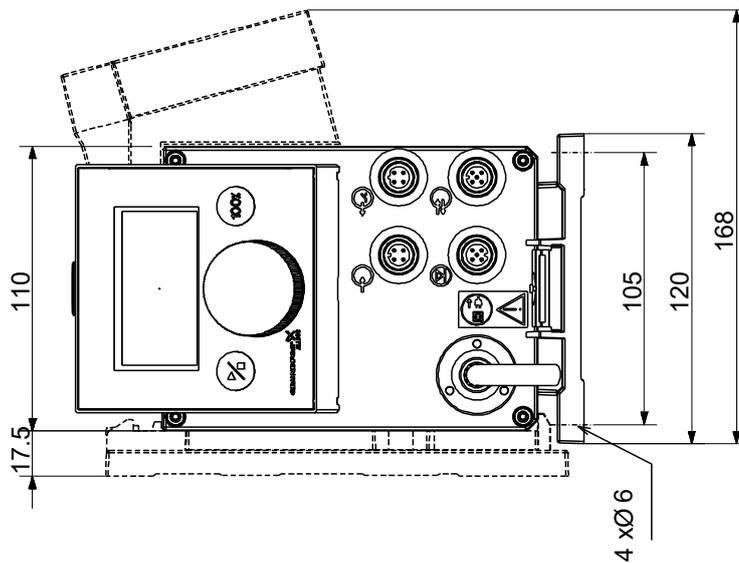
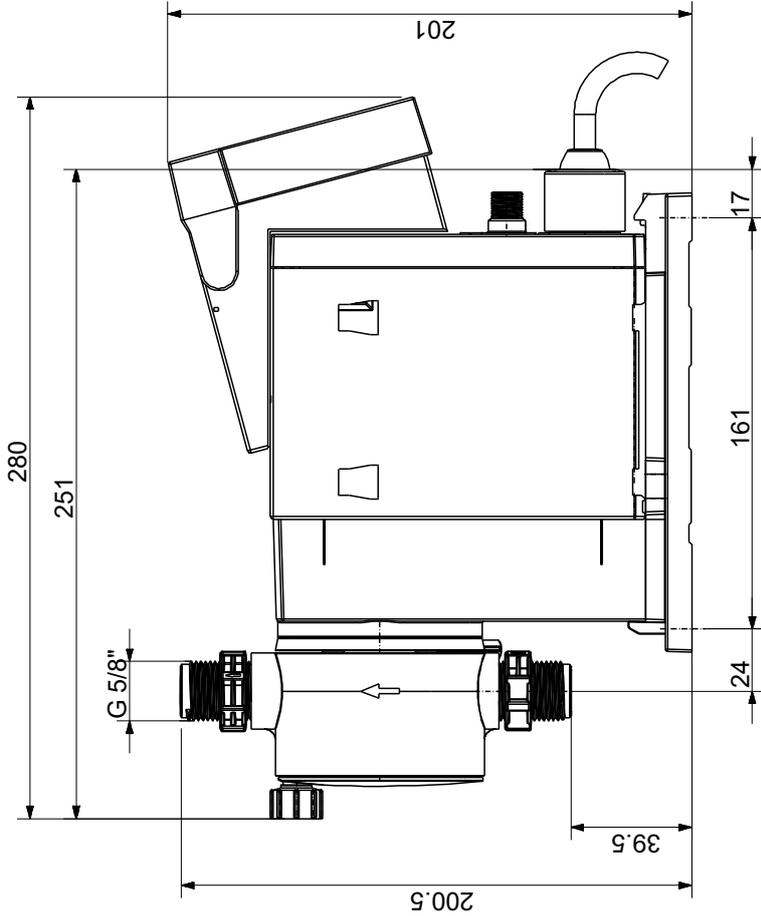




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**Date:** 08/10/2023

Description	Value
Gross weight:	3 kg
Color:	RED

**On request DDA 17-7 AR-SS/T/SS-F-31AAFG**



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

