

PRISMA

STEPPER MOTOR DOSING PUMP



The PRISMA diaphragm and stepper motor metering pump is designed for applications requiring high precision dosing volumes and reliable repeatability. Thanks to the microprocessor controlled stepper motor and excellent pitch resolution of 1: 4800, the entire stroke and suction cycle is controlled with maximum precision.

The PRISMA dosing pumps ensure precise control of the stroke frequency and therefore a precise and low pulsation of the liquid additives even when dosing viscous substances.



SLOW MODE

With the exclusive SLOW MODE functionality of the PRISMA metering pumps, the stroke speed during the suction cycle can be reduced to 75%, 50% and even 25%. This feature facilitates the adaptation of the pump to the metering medium and increases the reliability and venting of high viscosity dosing media.

COLOR DISPLAY AND ENCODER CONTROL

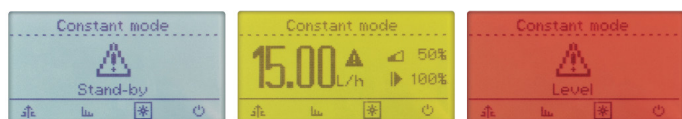
The PRISMA dosing pump is equipped with an encoder for quick and easy menu navigation, as well as a large display for a convenient setting of the operating parameters and monitoring of the pump functions.

The intelligent multi-function software allows the operator to precisely set the dosage required by the application. This allows you to enter the desired value and read it directly in ml/h or l/h via the graphic display. All operating modes are displayed clearly and easily through self-explaining symbols.

OPERATING MODE

- > Constant
- > Proportional control by external input, mg/l (ppm) mode
- > Proportional control by external input, percentage (%) mode
- > Start-Pause
- > Weekly timer
- > External input (start and/or pause)

Operating messages are easily recognizable by different background colors of the display:



White: Pump in StandBy **Green:** Pump running **Red:** Alarm
Yellow: Warning (product in tank at minimum)

INPUTS

Multi-function input for

- > Level (with pre-alarm)
- > Pulse sender water meter (PPM mode, %, mlq, mA, V, pulse)
- > Standby
- > External contact (in a freezing process)

OUTPUT

- > alarm (common to all alarms)

INTERFACE

- > RS485
- > Modbus RTU

HYDRAULIC PARTS

- > PVDF
- > PP
- > stainless steel (AISI 316)
- > acrylic glass (PMMA)
- > double ball check valves
- > FKM B, EPDM, nitrile, PTFE O-rings

MEMBRANE

- > PTFE membrane

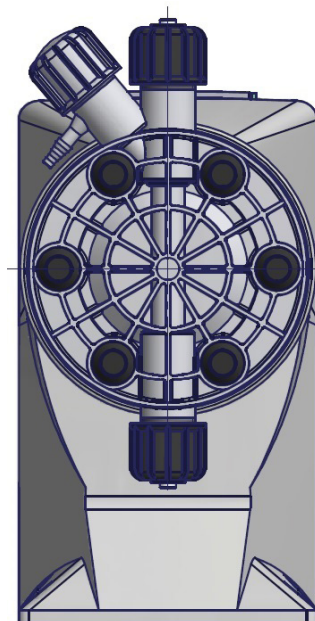
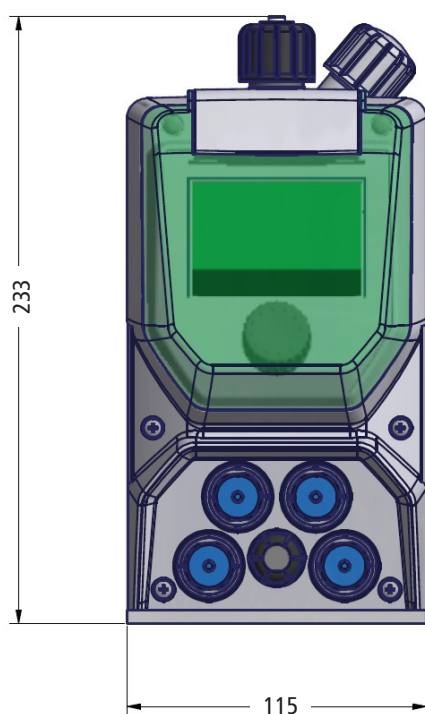
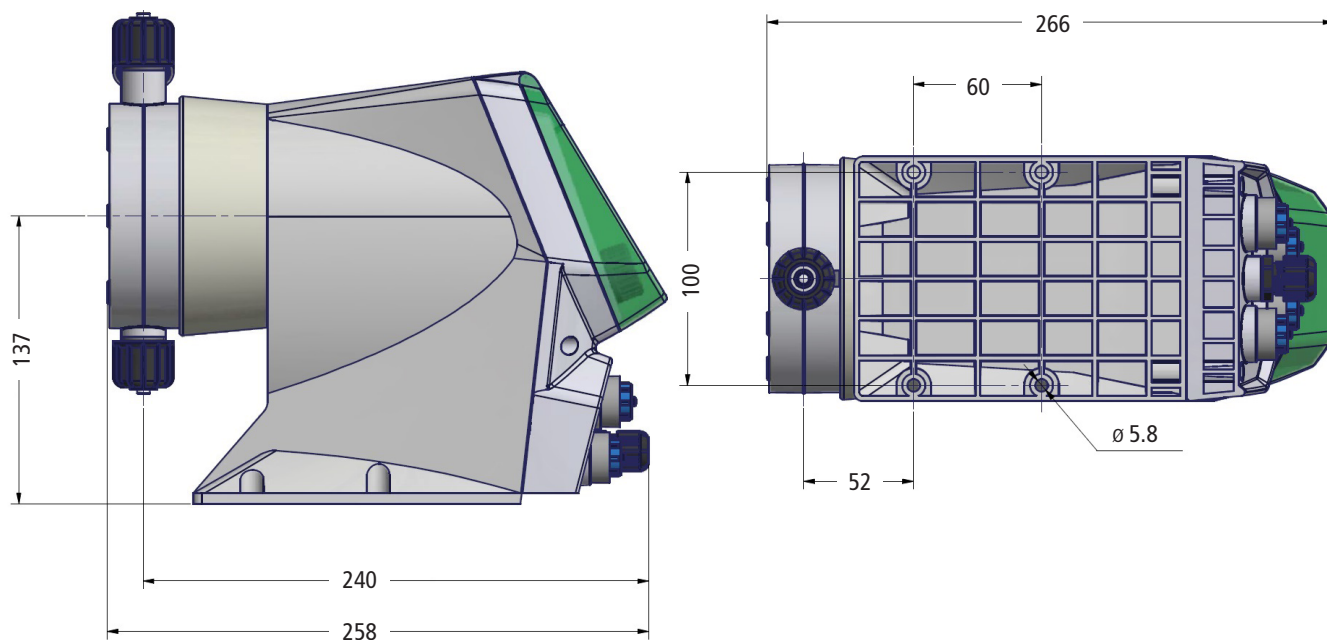
ACCESSORIES

- > 1/2", injector (made of PVDF or PP)
- > Axial bottom valve (made of PVDF or PP)
- > Empty signal level switch
- > 2m suction, suction and ventilation pipe (PVDF or PE and PVC)
- > INPUT multifunction cable
- > ALARM cable

| MODEL | | 20005 | 10013 | 05028 | 02080 |
|---------------------------------|---------------|--|-----------|-------------|-------------|
| Flow | l/h | 5 | 13 | 28 | 80 |
| Pressure (max) | bar | 20 | 10 | 5 | 2 |
| Pump Head | | L | M | N | N |
| Hoses | | PVDF, PP, SS (AISI 316), Acrylic Glass (PMMA) | | | |
| Membrane | | PTFE | | | |
| O-Ring | | FKM B, EPDM, Nitril, PTFE | | | |
| Liquid-ends (S/D) | mm | 4x6 / 4x6 | 6x8 / 6x8 | 8x12 / 8x10 | 8x12 / 8x10 |
| Pump Head | | 3/8" | 3/8" | 1/2" | 1/2" |
| Injection | | 1/2" | 1/2" | 1/2" | 3/4" |
| Stroke Length reduction | | 1:4800 | | | |
| Protection | | IP65 Humidity 85% und T ≤ 40 °C; 70% und T = 50 °C (no condensation) | | | |
| Pump housing | | PP plastic reinforced with glass fiber | | | |
| Installation class | | II | | | |
| Pollution level | | 2 | | | |
| Environment Temperature | °C | 10 - 45 | | | |
| Operating Temperature | °C | 1 - 50 | | | |
| Transport & Storage Temperature | °C | -10 - 50 | | | |
| | | | | | |
| Power Supply | | 110 - 240 VAC, 50/60 Hz | | | |
| Energy consumption | | 30 W | | | |
| Inputs | Pulses | max. 24 VDC, max. 50 mA | | | |
| | Pulses (Hall) | max. 12 VDC, max. 50 mA, with extra output +12V | | | |
| | Analog | 0 - 20 mA 0 - 10V (max load 500 Ω) | | | |
| Outputs | Alarm | Free contact relais N.O./C/N.C. max load 250 VAC, 2A | | | |
| Level connection | | 12 VDC, max. 50 mA | | | |
| Communication | | RS485 Modbus RTU (Optional) | | | |

DIMENSIONS (mm)

PRISMA 20005 and 10013



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PRISMA 05028 and 02080

