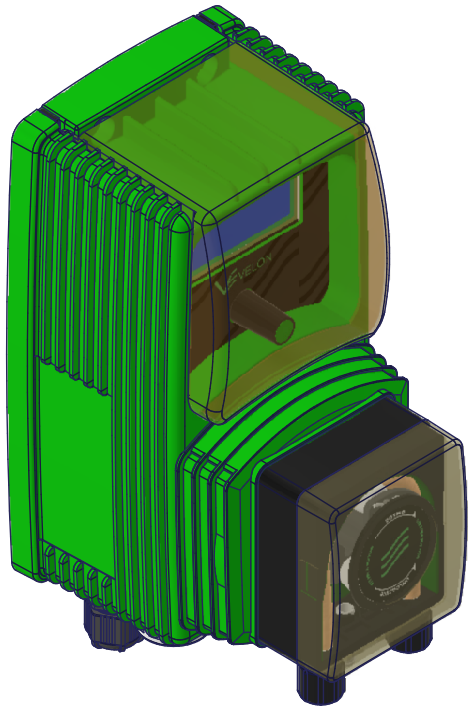
"VELON PO"



VELON PO is a "smart" dosing pump, developed for applications where precision must go hand in hand with the ability to adapt to process parameters. Thanks to advanced peristaltic technology and a stepper motor, it ensures stable, safe, and dynamic proportional dosing, even under variable operating conditions.

Navigation

The backlit LCD display and front encoder allow for simple and intuitive user interaction, even with a wide range of options. The menus guide the user step by step, simplifying programming and reducing setup time.

Dosing

The pump supports multiple modes: Proportional, based on sensor readings (pH, chlorine, Redox, temperature), and Autodosing, which automatically adjusts the dosing according to the set value and the tank volume. This versatility makes it ideal for applications where parameters change dynamically and dosing must continuously adapt.

Additional Functions

It integrates tank level management to ensure operational continuity and prevent unexpected shutdowns. A standby function is available, allowing dosing to be temporarily suspended via an external command and resumed instantly afterward. An optional alarm adds an extra level of safety. Advanced electronics guarantee constant precision even with varying loads.

IoT and Services

The pump stands out for its connectivity: it supports WiFi, OTA firmware updates, and can be managed via dedicated digital platforms (ERMES via web and MyEmec via mobile app). This allows for monitoring and control even remotely, making it perfect for users who require continuous supervision.

ENCODER

Main Features

- LCD display with backlighting that adapts to the pump status
- Menu management and dosing functions via encoder
- Inputs: MODBUS RTU, standby, level, serial probe
- Outputs: alarm (optional)
- Firmware update (via OTA)
- WiFi & Bluetooth connectivity
- PC + ABS enclosure
- Operating ambient temperature: 10 to 45°C (55 to 113°F)
- Additive temperature: 0 to 50°C (32 to 122°F)
- Transport and storage temperature: -10 to 50°C (14 to 122°F)
- Installation class II (IEC / EN 61010-1)
- Pollution level 2 (IEC / EN 61010-1 and IEC 60664-1)
- Protection IP 65 (IEC / EN 60529)
- RH% Operational: 85% at T<=40°C; 70% at T=50°C (NC)
- Power supply: wide-range 100 to 240VAC, 12VDC, 24VDC
- Remote management, monitoring, and control via web service platforms (ERMES) and app (MyEmec)

W/MODE	DESCRIPTION
PROPORTIONAL	The pump doses the chemical based on the setpoints and the probe reading
AUTODOSING	The pump doses the chemical according to the set value and the size of the tank

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Specifications subject to change without notice | R2025

emec SIMPLE AS WATER

IQNET CERTIFIED MANAGEMENT SYSTEM
qualityaustria SYSTEM CERTIFIED
ISO 9001:2015 No.07728/0
ISO 14001:2015 No.00997/0
ISO 45001:2018 No.01121/0

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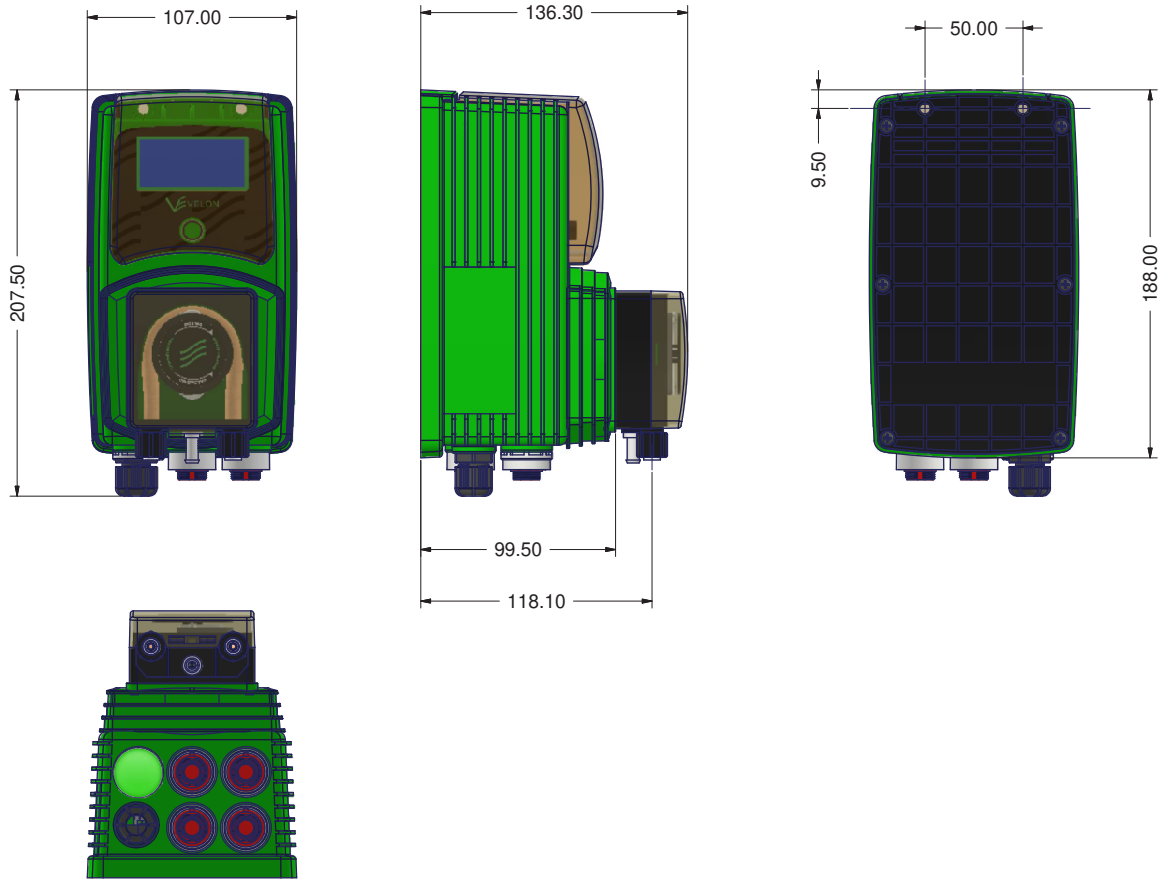
Peristaltic Features

DOSING CAPACITY			
Pressure	**RPM Range**	**Flow Range (Tubo Ø1,6x1,6)**	**Flow Range (Tubo Ø4,8x1,6)**
bar (psi)	rpm	l/h (gal/h)	l/h (gal/h)
2 (29)	1 to 100	0,018 to 1,8 l/h | 0,0047 to 0,47 gal/h	0,12 to 12 l/h | 0,0317 to 3,17 gal/h

INTERFACE	POSITION
ALARM (OPTION)	up / left
POWER SUPPLY INPUT	down / left
LEVEL INPUT	up / right

CONSTRUCTION MATERIALS	
ELEMENT	**MATERIAL**
Pump's body	PC / ABS
Cover	PC
Dust Cover Bushing	PEEK / PPS
Hose Clamp Hose Connector Hose Vent	PVDF
Peristaltic Roller	POM DELRIN
Peristaltic Hose (Long Lasting)	TPV

Dimensions (mm)



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