

Electric Proportional Dosing Pump

MixRite™ E-300PRO

E-300PRO Electric Proportional Dosing Pump

The E-300PRO is an advanced electric dosing pump, designed for precise injection of fertilizers and additives directly into water lines.



Two Operating Modes

1. Automatic Mode – True Proportional Dosing

The pump maintains a constant dosing ratio (percentage) rather than a fixed injection rate.

Core Advantage

- Injection proportional to real-time water flow
- Maintains a constant dosing ratio even when flow and pressure change
- Full integration with external irrigation controllers (AC / DC)
- Dosing range: 0.1% - 1%

ⓘ Requirements for Proportional Dosing

To achieve true proportional dosing, the following sensors must be connected and configured:

1. Water Meter – measures the actual water flow in the main line
2. Additive Flow Sensor – measures the injected additive volume

2. Manual Mode

- Fixed injection rate based on motor output
- Manual adjustment from 20% – 100% motor power

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Auto Mode – Proportional dosing

Set dosing	Injected Volume l/h at 5 bar						
0.10%	N/A	N/A	10	20	30	40	50
0.20%	N/A	10	20	40	60	80	100
0.30%	N/A	15	30	60	90	120	150
0.40%	N/A	20	40	80	120	160	200
0.50%	N/A	25	50	100	150	200	250
1.00%	10	50	100	200	N/A	N/A	N/A
	1,000	5,000	10,000	20,000	30,000	40,000	50,000
	Flow Rate (L/h)						

Manual Mode

Pump value	Injected volume (L/h) relative to line pressure		
	2 Bar	3 Bar	5 Bar
20	49	36	8
30	86	72	39
40	120	104	71
50	153	140	98
60	181	171	129
70	205	189	150
80	236	224	186
90	266	245	214
100	301	287	252

Specifications

Pump Design	Positive Displacement 3 Chamber Diaphragm Pump
Power Supply	Input: 100-240 VAC @ 50-60Hz
Motor	12VDC Nominal / Max 8A
Liquid Temperature	77°C (170°F) Max.
Ports	3/8"-18 NPT Female
Material Of Construction	Plastics – Polypropylene Valves – Viton Diaphragm – Santoprene Fasteners – Zinc Plated Steel
Minimum Pulse Duration	60 ms (DC Activation)

Simple and cost-effective installation



Two Operating Modes

