

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 percentage	Injection flow rate (L/h) – at a line pressure of 5 bar						
	1,000	5,000	10,000	20,000	30,000	40,000	50,000
0.10%			10	20	30	40	50
0.20%		10	20	40	60	80	100
0.30%		15	30	60	90	120	150
0.40%		20	40	80	120	160	200
0.50%		25	50	100	150	200	250
1.00%	10	50	100	200			
	System flow rate (L/h)						

Simple and cost-effective installation



Two Operating Modes

Manual Mode

Pump setting	Injected volume (L/h) relative to line pressure		
	2	3	5
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

