



# Electronic Dosing Systems Ltd

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Solutions For All Metering & Measurement Processes

## YL Series Dosing Pumps

Digital Display - Program Keypad  
Manually Adjustable

### Intelligent Fluid Management Systems

A new standard in fluid management technology where accuracy and reliability is non-negotiable.

Features proprietary power algorithm coupled with cutting-edge digital software that transforms process data feedback into precise dosing commands, regulating the output based specific operational parameters to deliver unparalleled reliability and intelligent dosing performance providing an effective solution to multiple water treatment applications.

### Features

- » Flow rates: 0.4 - 110 l/Hr
- » Max backpressure: up to 20 bar
- » Power Supply: 100÷240 Vac - 50/60 Hz
- » Stroke rate: 120 - 300 strokes/minute
- » Pump Head: PVDF (Viton Seals)
- » Diaphragm: PTFE
- » External enclosure: PP reinforced with IP65-rated fibreglass
- » Manual priming bleed valve
- » Installation kit Includes:  
PVDF Injection Fitting - PVDF Footfilter  
PVC Hose – Polythene Delivery Hose



# Key Functions & Features

The state-of-the-art YL series surface mount metering pump with digital interface is engineered for precise, reliable, and intelligent chemical delivery in a wide range of industrial, municipal, and commercial applications, this compact designed pump combines robust mechanical design with advanced digital control that optimizes chemical efficiency to provide unparalleled performance superior precision and peace of mind.

**Intuitive Flow Adjustment:** Precise 0÷100% stroke frequency adjustment based on user-defined working parameters to maintain a consistent flow rate even under fluctuating operational conditions.

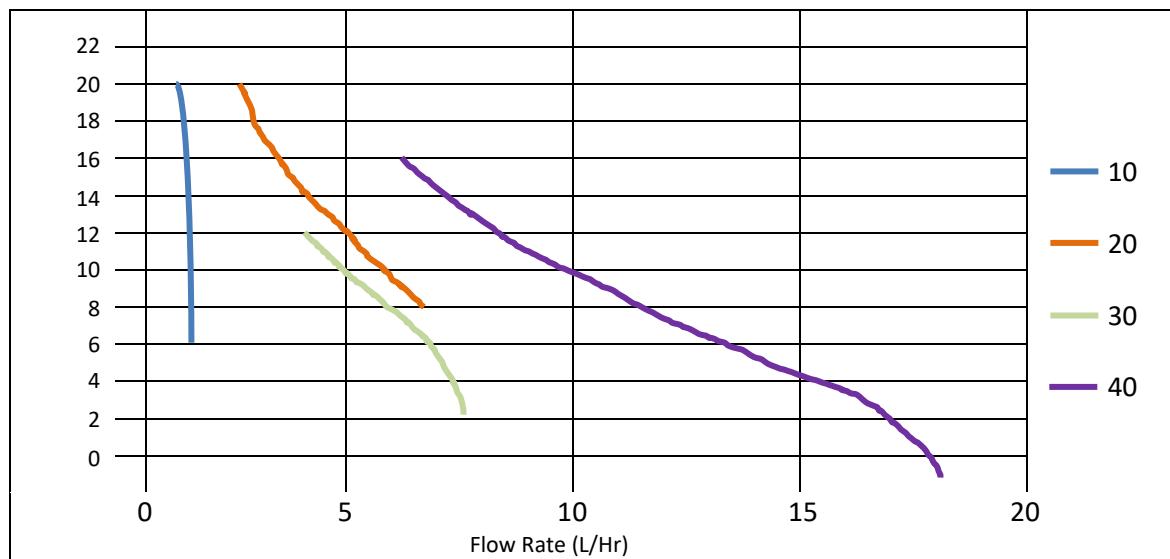
**Low Level Protection:** Integrated input for a level sensor automatically stops the pump when the chemical storage tank reaches a critically low level protecting the dosing pump from damage.

**Patented Power Algorithm:** Intelligent microprocessor-driven algorithm dynamically adapts the power to the pumps solenoid in real-time to the process operational conditions to maintain precise dosing and chemical efficiency.

Pump Models											
YL	Analogue Interface: - Constant operation with digital manual flow adjustment / Low level sensor input										
YG	Multifunction: - Constant Operation - Proportional flow rate according to external (4-20 mA) current signal - water meter: - (1:n or n:1). Timed dosing with a weekly programmable timer; Dosage in ppm; Dosage batch; Statistics; Password; - Input ON-OFF (remote switch)										
YR	Digital interface - Manually adjustable output. Proportional dosing according the measured pH or Redox value. Temperature compensation input: - PT100 probe - Repetition alarm relay. Remote control On-Off input signal. Current 4÷20 mA output for measure transmission. Remote communication via ModBus protocol (Optional).										
Pressure (Bar)		Flow Rate (l/hr)	Capacity (cc/stroke)	Frequency Stroke/min	Ø Hydraulic Connections IN / EXT.[mm]						
12	4	0.42	160	4x6							
10	3	0.52	160	4x6							
8	6	0.63	160	4x6							
2	8	0.83	160	4x6							
16	7	0.38	300	4x6							
10	10	0.55	300	4x6							
5	15	0.83	300	4x6							
1	18	1.00	300	4x6							
5	20	1.11	300	8x12							
4	32	1.78	300	8x12							
2	62	3.44	300	8x12							
0.1	110	6.11	300	8x12							
Power Supply											
All Models	Stabilised Power Supply 110÷240 Vac 50/60Hz		Ambient Temperature: 40° Max	Humidity: 90° Max							
	12 Vdc 50/60Hz ( Upon Request )										
Pump Body		Liquid End's									
PVDF	PVDF – Stainless Steel (316L) – PVDF (automatic degassing)										
Installation Kit											
PVDF	Standard										
Pump Seals											
FKM-B (Viton)	PTFE	EPDM (Ethylene Propylene Diene Monomer)	FFKM (Perfluoroelastomer)								
Note: - Guidance purposes only manufacturer reserves right to amend specifications											

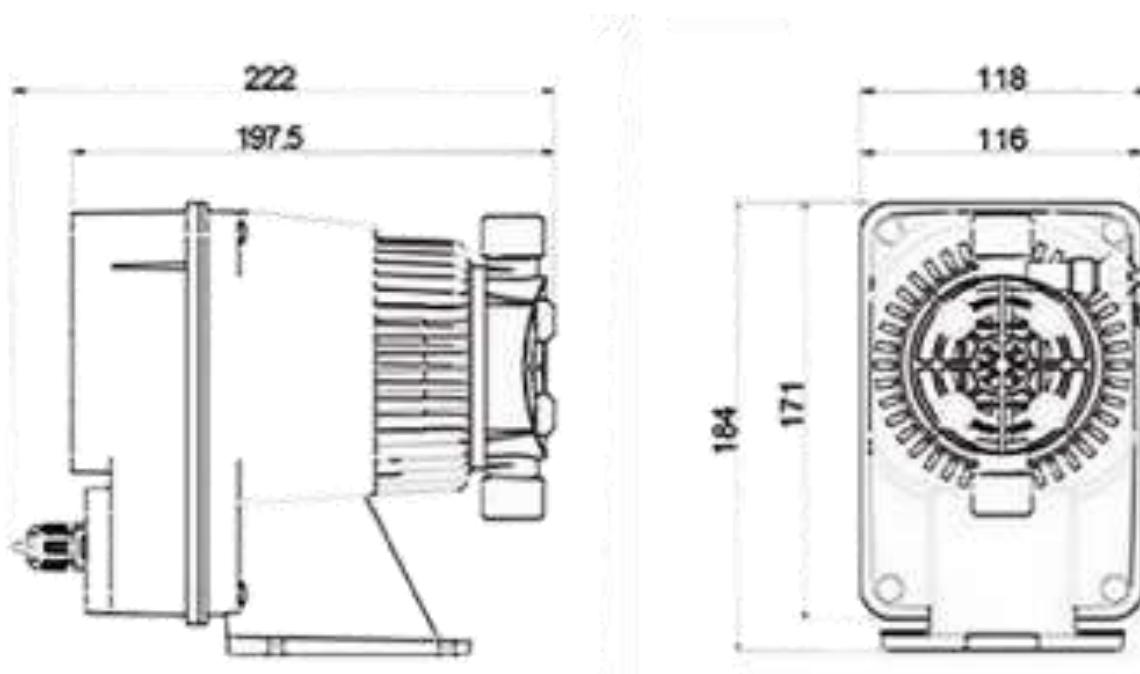
- The YL Series has struck the perfect balance between the use of premium materials and components that guarantee chemical compatibility in multiple water treatment applications whilst ensuring affordability for the operator.
- In order to satisfy various chemical demands four models are available each offer three different flow rates according to the process working conditions allows the operator to maximise chemical accuracy.
- Delivers reduced energy consumption courtesy of the patented stabilised multi-range power supply algorithm.

## YL Series Performance Curves



N.B. Flow rates are guild only and subject to manufacturer changes

## Dosing Pump Overall Dimensional Drawing



N.B. Recommend Pump Mounted On Steady Flat Horizontal

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# Y Series

## TANK MOUNTED SOLENOID DOSING PUMPS

The multi-model Y Series metering pumps delivers precise and consistent chemical metering for a wide range of demanding process control applications including complex high-end processes.

Built with premium-grade mechanical & electronic components these pumps provide the perfect solution for discerning professional responsible for maintaining chemical efficiency.

Commitment to continuous refinement of these systems meaning they always meet up-to-date legislation.



## APPLICATIONS

- Commercial swimming pools
- Industrial water treatment
- Cooling water treatment
- Potable water treatment
- Wastewater treatment
- Power generation
- Food & beverage

## PUMP MODELS

- YL Model: - Manually Adjustable - Low Level Interface
- YG Model: - Multifunction Software Programs  
| 4-20mA | water meter | n:1 & 1:n | PPM |  
Timed: - Day-Weekly batch program
- YR Model: - Integrated pH-redox instruments  
N.B. (pH-redox mode selectable in menu)

Remote Wi-Fi interface available  
With full programming authority

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