



Electronic Dosing Systems Ltd

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Solutions For All Metering & Measurement Processes

YG Series Dosing Pumps

Multifunction Software Programs
Proportional – Timed – Manual Control

Intelligent Fluid Management Systems

Redefining a new standard in fluid management technology where precision and reliability is non-negotiable.

Powerful proprietary power algorithm system transforms live operational conditions regulating the power output to the solenoid critical for quality control in sensitive applications, designed to be easily integrated into multiple applications the comprehensive range of proportional and timed operating modes and parameter settings for perfect fluid metering virtually eliminating dosing errors even under fluctuating system conditions.

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 multifunction pump elevates your fluid management control to another level with its multi-parameter operating modes these pumps deliver accuracy, reliability and performance even in the most harsh of environments and conditions, the compact design coupled with intelligent software technology maximises chemical efficiency and system performance essential in highly sensitive process applications

Operating Modes

Manual Flow Adjustment: Manual 0÷100% frequency rate adjustment based on user-defined working parameters to maintain precise flow rate even under fluctuating operational conditions.

Proportional (Pulse Digital): Pump can be programmed for either multiplication or division operating mode dosing a defined volume of chemical according to the user defined parameters per external water meter or digital pulse signal.

Proportional (Analogue): Pump dose rate is adjusted automatically based on the external signal typically a 4÷20 mA generated by either a remote flow sensor or integrated with a monitoring and control instrument system.

Integrated Timer Programs: Schedule your dosing cycles to align perfectly with operational shift patterns and process demands throughout the week to optimize chemical efficiency in a wide range of process applications.

Remote Dosing Activation: Initiate pump operations remotely via input signal to trigger start-stop commands.

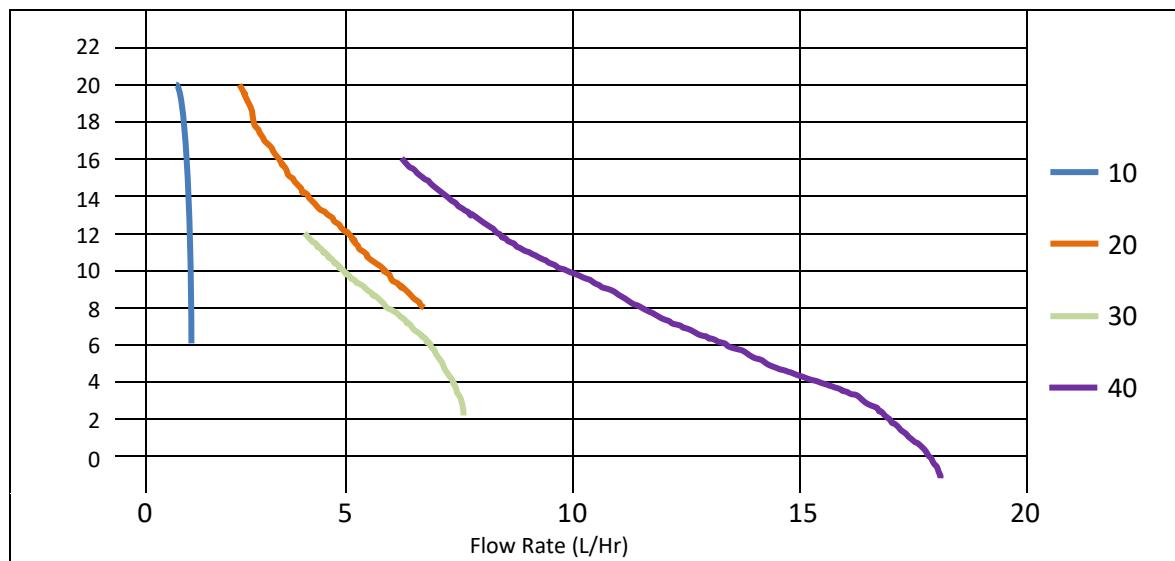
Safety/Control Inputs: Flow & Level Sensors – Remote Start/Stop Function – Alarm Relay - Password

Pump Statistics: Pump Starts – Chemical Dosed – Number of Pump Strokes – Reset Counters

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 YG 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.

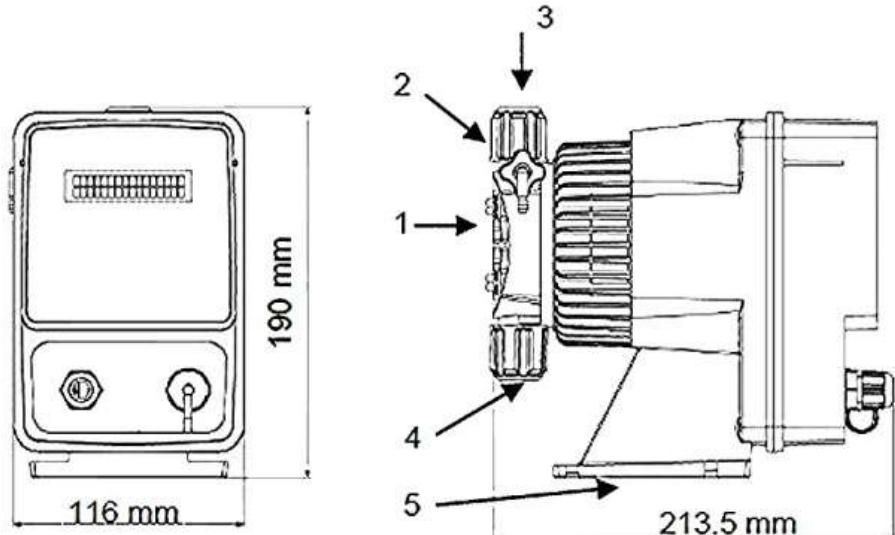
YG Series Performance Curves



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

Dosing Pump Overall Dimensional Drawing

- 1 Pump Body*
- 2 Priming Valve
- 3 Delivery Connector
- 4 Suction Connector
- 5 Mounting Bracket



N.B. Recommend Pump Mounted On Steady Flat Horizontal Surface

Dosing heads and seals are manufactured from premium grade materials to meet today's constantly evolving demands providing years of service, chosen to guarantee perfect compatibility with most chemical agents used in domestic, commercial and industrial water treatment markets.

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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