



Electronic Dosing Systems Ltd

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Solutions For All Metering & Measurement Processes

HG Series Metering Pumps

Multifunction Software Programs

Proportional – Timed – Manual Control

Unrivalled Adaptive Intelligent Dosing Solutions

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, engineered for multiple applications the comprehensive proportional operating modes and timer programs these pumps can be adapted to most dosing requirements.

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 & Control Features

The HG multifunction pump elevates your fluid management control to another level with its multiple operating modes including proportionally controlled and timed process applications, engineered for demanding environments the power algorithm ensures optimal performance regardless of working conditions critical to maintaining system performance and optimising chemical consumption.

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.

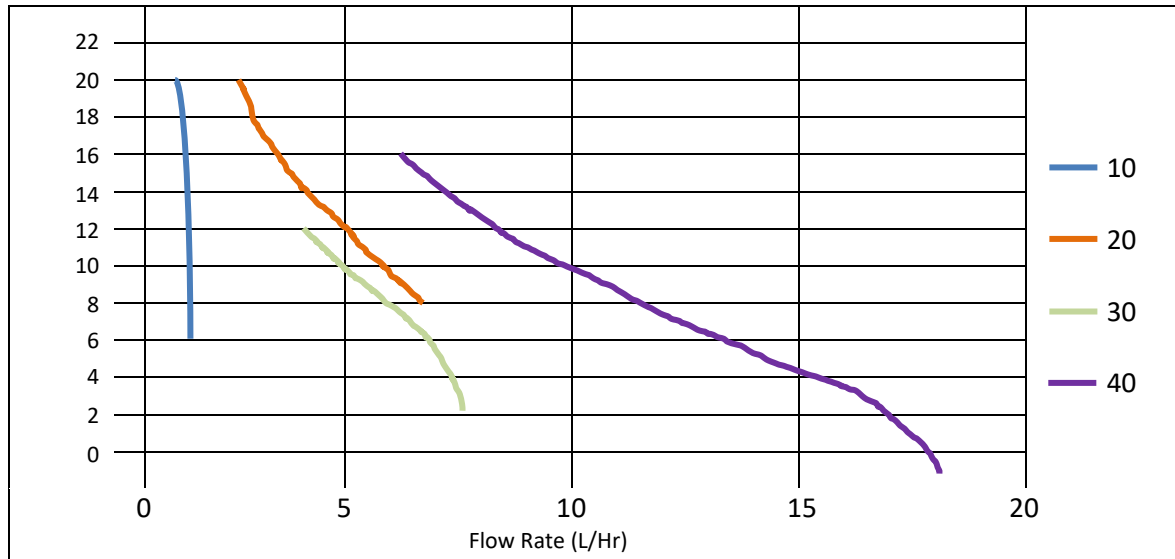
Safety/Control Inputs: Flow & Level Sensors – Remote Start/Stop Function – Alarm Relay – Password

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

Pump Models					
HS	Analogue Interface: - Constant operation flow rate manually adjustable				
HL	Analogue Interface: - Constant operation flow rate manually adjustable / Level control input				
HK	Digital Interface: - Flow rate manually adjustable. Timed dosing through weekly programmable timer. Programmable timed relay by activating a dry contact input				
HG	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)				
HR	Digital interface - Flow rate manually adjustable. 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. Available with remote communication via ModBus protocol.				
	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
	Only HS & HG	12 Vdc 50/60Hz			
	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				

- In order satisfy various chemical demands four models are available each offer three different dosing 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.

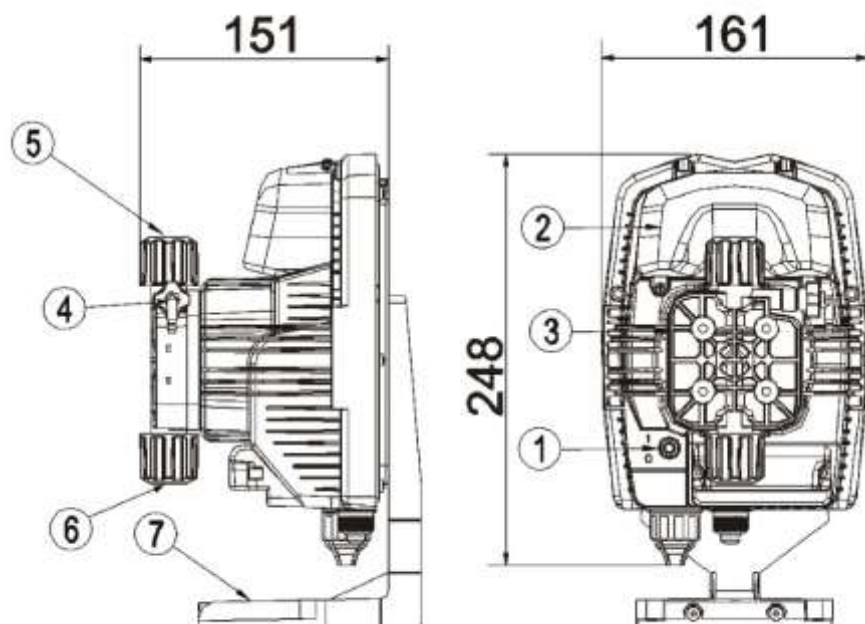
HG Series Performance Curves



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

Dosing Pump Overall Dimensional Drawing

- 1 Power Switch*
- 2 Control Panel
- 3 Dosing Head
- 4 Priming Valve
- 5 Delivery Connector
- 6 Suction Connector
- 7 Base Support (optional)



N.B. Wall and tank brackets mounted firmly rear of housing

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.

N.B Some pump models aren't equipped with on/off power switch by pressing the SEL key for at least 5 seconds the pump will stop functioning pressing again the SEL key the pump returns to its working state.

H Series

WALL-MOUNTED SOLENOID DOSING PUMPS

The multi-model H Series metering pumps delivers accurate consistent chemical dosing for a wide range of commercial & industrial applications including complex high-end processes. Built with premium-grade mechanical & electronic components the H series pumps are the solution of choice 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

- HS Model: - Manually Adjustable - Selectable Frequency Ranges
- HL Model: - Manual Adjustment - Low Level Interface
- HP Model: - 4-20mA input signal - Low Level Interface
- HG Model: - Multifunction Software Programs
| 4-20mA | water meter | n:1 & 1:n | PPM |
Timed: - Day-Weekly batch program
- HR 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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