



# Electronic Dosing Systems Ltd

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Solutions For All Metering & Measurement Processes

## HS Series Dosing Pumps

Two Frequency Ranges  
Manually Adjustable

### WALL-MOUNTED SOLENOID-DRIVEN METERING PUMP

Engineered for unparalleled precision and reliability in critical fluid management applications.

The ever-popular H Series is one of our best-selling metering pump ranges, with these wall mounted electromagnetic systems evolving over the years by drawing upon the feedback of thousands of users across the globe. The series comprises multiple analogue and digital models that meet the needs of every installation and deliver reliable and effective solutions in multiple water-treatment processes.

### 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



# HS Model Dosing Pumps

Solenoid dosing pump with manual adjustment potentiometer and user-friendly control panel engineered to deliver exceptional accuracy and flexibility the perfect solution for a wide range of processes, available in five models covering a wide range of performances with intuitive manual adjustment the user can to set the desired frequency rate and operations in seconds.

## Dual Frequency Ranges

- **High Range (100%):** For rapid metering and high-volume needs, offering swift initial dosing.
- **Low Range (20%):** For processes with fluctuating demands perfect fine-tuning chemical process.

Function allows for a **broader operational spectrum** and ensures **maximum accuracy** across various flow rates.

**Patented Power Algorithm** ensures consistent dosing even under fluctuating back pressure and flow conditions by adapting the power to the pumps solenoid maximising chemical efficiency.

- **Increased Energy Efficiency:** Optimizes the pumps power use leading reduced running costs.
- **Enhanced Reliability:** Minimizes maintenance downtime and prevents chemical flow deviation.

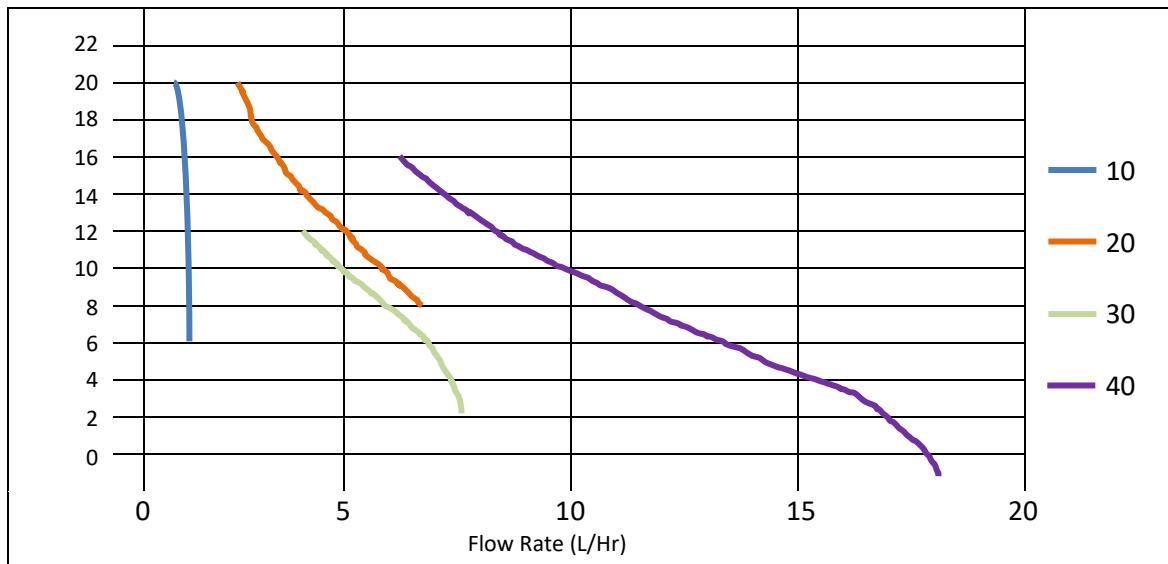
**Extended Service Life:** Reduces unnecessary stress on internal mechanical components.

## Technical Specifications

Model											
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						
				10	3						
				8	6						
				2	8						
				16	7						
				10	10						
				5	15						
				1	18						
				5	20						
				4	32						
				2	62						
				0.1	110						
Power Supply											
All Models	Stabilised Power Supply 110÷240 Vac 50/60Hz			Ambient Temp 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											

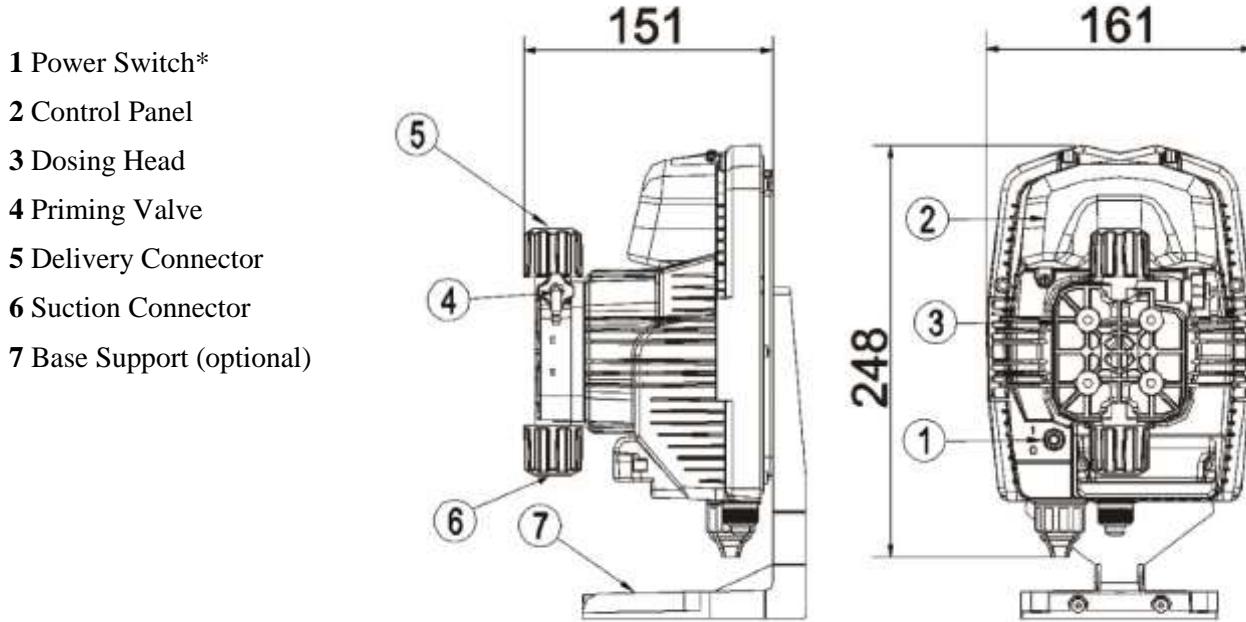
- In order satisfy various chemical demands on applications four models are available each offer three different flow rates according to the process working conditions allows the operator to maximise chemical accuracy .
- Delivers reduced energy consumption courtesy of the patented stabilised multi-range power supply algorithm.

## HS Series Performance Curves



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

## HS Series Overall Dimensional Drawing



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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