



DOSING SYSTEM
Solenoid Driven Dosing Pumps

FILTER DIVISION
Via Crotti, 1
42018 San Martino in Rio (RE)
Ph. +39 0522 695805 – 85
Fax: +39 0522 646160
e-mail: agua@agua.it
www.agua.it

DOSING DIVISION
Via Casetta di Campoloniano, 5
02010 Vazia (RI)
Ph +39 0746 221420
Fax +39 0746 221424
e-mail : meterpump@agua.it
web site www.meterpump.it

HC100

Technical Data Sheet
HC1 series

KEY FEATURES



- Stroke frequency control 0÷100%
- PTFE diaphragm
- Constant / On-Off dosing control
- 2 LED display status
- Analogue Controls
- Economically Priced
- On-Off power switch
- Dosing Head with integral priming valve (except 1 L head)
- Double Ball check valves
- Wall Mount with bracket & fixing kit
- Reinforced Plastic PP housing
- Supplied complete with hose accessory kit
- On request minimum level control predisposition

The HC100 is a solenoid driven dosing pump, diaphragm actuated, for standard duties where a constant dosing operation with a reliable performance is required. Designed for either continuous or intermittent operation, they are a reliable means of conveying strong chemicals under precise control into water treatment and process systems. They operate on the well proven principle of electromagnetic drive, with electronic frequency control. Their frequency (stroking speed) is adjustable in 2 speed ranges selectable via a two position switch which is also mounted on the front facia.

HC100 is the dosing friend that will always make sure that job is done!

PUMP CONTROL MODE

Constant mode: The pump flow rate is adjusted via a stroke frequency control knob and will constantly deliver according to the flow rate selected.

Connected to a **Remote On/Off** equipment, the pump will start and stop operations according to the external contact.

Double scale adjustment: for accurate control of low output: pump pulses reduction from 0÷100% to 0÷20%

LIQUID ENDS MATERIAL HC1

	Standard Version	Upon request
Pump head	PP	PVC; S.S 316; PVDF
Diaphragm	PTFE	-----
Balls	PIREX	S.S. 316; PTFE; CERAMIC
Connection fitting	PP	PVC; PVDF; S.S. 316;
Seals/O-rings	Viton®	Dutral®; NBR
Spring loaded injection valve	Hastelloy/Pirex	Hastelloy/PTFE (S.S. 316, CERAMIC)
Injection Fitting	PP	PVDF; S.S. 316
Foot Valve/Filter Fitting	PP	PVDF; S.S.316
Suction Hose /Air Bleed hose	PVC	PVDF
Discharge Hose	PE	PVDF

Viton®: FPM / Dutral®: EPDM, are registered trademarks of Dupont Elastomers

Model	Max Flow at Max Pressure		Stroke frequency per min.	Stroke volume ml / l	Stroke length mm	Power cons. watt	Hose size mm	Pump head model	Max suction lift m
	l/h	bar							
01-08	1	8	105	0,16			4x6	PP 3/8" 1	1,5
02-07	2	7	105	0,32			4x6	PP 3/8" 2-15	1,5
02-10	2	10	105	0,32			4x6	PP 3/8" 2-15	1,5
04-05	4	5	105	0,64			4x6	PP 3/8" 2-15	1,5
05-08	5	8	105	0,79			4x6	PP 3/8" 2-15	1,5
06-02	6	2	105	0,96			4x6	PP 3/8" 2-15	1,5
10-03	10	3	105	1,58			4x6	PP 3/8" 2-15	1,5

HC1 CURVES	Flow at max pressure		Flow at median pressure		Flow at 1 bar	
	l/h	bar	l/h	bar	l/h	bar
Model						
01-08	1	8		4		1
02-07	2	7		3,5		1
02-10	2	10		5		1
04-05	4	5		2,5		1
05-07	5	7		3,5		1
06-02	6	2		1		1
10-03	10	3		1,5		1

NOTE: The flow rates opposite have been obtained by testing the pump with medium hardness water at a 1.5 m suction lift at room temperature

Green LED: indicates pump power status

Red LED: shows pumps Running status

Flow-rate: frequency adjustment

Power switch



For HC100 with level control:

Yellow LED: when lit shows chemical low level

Double scale: pulse frequency selector 0÷100% and 0÷20%

Power supply: 230 Vac-1 phase- 50/60 Hz / ± 10%

Power cable: 3 m grounded without plug

Available upon request: 110 Vac-1 phase- 60 Hz

Ambient working temperature: 45°C

Recommended frequency adjustment: 10 ÷100%

Voltage working range: min.207V – Max 253 V

Reproducibility under standard conditions: ± 5%

Voltage Peak: Max 270 V

Plastic housing: PP reinforced

Wall mounting bracket: PP

HC100 is provided with Standard Hose Accessories Kit:

- 1 - Injection Valve, hastelloy spring, ball Pyrex
- 2 m - Discharge Hose (white)
- 2 m - Suction Hose PVC flexible (transparent)

- 1,5 m - Air Bleed Hose PVC flexible (transparent)
- 1 - Foot Valve/Filter
- Screws and plugs for pump mounting bracket

HC1 series dimensions and packing

Packing weight: 2,5÷3 kg
 Packing size (mm): 220 x 170 x 210
 Packing volume: 0,008 m3

