



**KEY FEATURES**

- **Manual Control** adjustment 0-100%
- **Microprocessor technology**
- **Proportional Control** via a volt free pulse input
- **Pulse Multiplication & Division:** 1xN - 1/N
- **PTFE Diaphragm**
- **LED Display of setting**
- **Dosing Head with integral priming valve**
- **Lip Valves - Double Ball valves on request**
- **Wall Mount with bracket & fixing kit**
- **Reinforced PP Plastic housing**
- **Optional Low level control with level switch**
- **Supplied complete with hose accessory kit**

The **HC100 P-I** is a proportional solenoid driven dosing pump, diaphragm actuated microprocessor based with digital controls. The HC100 P-I is designed to accept an external volt free pulse typically from contacting head water meter & respond according to that pulse. The stroking speed of the pump can be easily programmed via multiplication or division controls on the front panel. A manual setting is also available for priming purposes. Also available is the **HC100 P-IL** which includes level control and is provided with a low level switch.

**PUMP FUNCTIONS, DOSING MODES AND CONTROLS**

**Digital controls:** allow easy programming for both proportional and manual mode.

**Programming modes:**

- **Manual mode:** (F1) enables you to select the exact number of strokes, between 1-100 strokes per minute, mainly used to prime the pump.
- **Multiplication mode:** (F3) The pump will stroke in response to an external pulse. The pump control panel enables you to set the number of pulses the pump will stroke (0-999) from a single pulse.
- **Division mode:** (F2) The pump will stroke in response to external pulses. The impulse counter enables you to set the number of pulses received (0-999) before the pump does 1 stroke.

**Optional Level control:** If fitted a level switch stops the pump when the chemical level runs low.

LIQUID ENDS MATERIAL HC100 SERIES		
	Standard Version	Upon request
Pump head	PP	PVC - AISI 316 - PTFE ;
Diaphragm	PTFE	-----
Valve lip type	Viton®	Dutral® - NBR
Connection fitting	PP	AISI 316
Seals/O-rings	Viton®	Dutral® - NBR
Injection No return Valve	Viton®	Dutral® - NBR
Injection Fitting	PP	AISI 316 - PTFE
Foot Valve/Filter Fitting	PP	AISI 316 - PTFE
Suction Hose /Air Bleed hose	PVC	-----
Discharge Hose	PE	-----
<b>Upon request:</b> Ball check valve	Glass Pyrex	AISI 316 - PTFE
Valve body	PP	AISI 316 -PTFE -PVDF
Spring loaded injection valve:	Hastelloy/Pyrex	Hastelloy/AISI316 - PTFE

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



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Valve lip type	<b>Viton®</b>	Dutral® - NBR
Connection fitting	<b>PP</b>	AISI 316
Seals/O-rings	<b>Viton®</b>	Dutral® - NBR
Injection No return Valve	<b>Viton®</b>	Dutral® - NBR
Injection Fitting	<b>PP</b>	AISI 316 - PTFE
Foot Valve/Filter Fitting	<b>PP</b>	AISI 316 - PTFE
Suction Hose /Air Bleed hose	<b>PVC</b>	-----
Discharge Hose	<b>PE</b>	-----
<b>Upon request:</b> Ball check valve	<b>Glass Pyrex</b>	AISI 316 - PTFE
Valve body	<b>PP</b>	AISI 316 -PTFE -PVDF
Spring loaded injection valve:	<b>Hastelloy/Pyrex</b>	Hastelloy/AISI316 - PTFE

**TECHNICAL CHARACTERISTICS HC1 SERIES**

**Model**

Model	Max Flow at		Stroke frequency	Stroke volume	Stroke length	Power cons.	Hose size	Pump head (connections)	Max suction lift m
	l/h	bar							
HC 100 P-I 02-08	2	8	100	0.33	1.2	20	4x6	PP 3/8"	1.5
HC 100 P-I 05-05	5	5	100	0.83	1.1	20	4x6	PP 3/8"	1.5
HC 100 P-I 10-02	10	2	100	1.6	2.0	20	4x6	PP 3/8"	1.5

HC1 CURVES	Flow at max pressure		Flow average pressure		Flow at 1 bar	
	l/h	bar	l/h	bar	l/h	bar
Model						
02-08	2	8	5	4	7.5	1
05-05	5	5	2	3	6.5	1
10-02	10	2	10.5	2	13	1

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

cons. size

2	8	100	0.33	1.2	20	4x6	PP 3/8"	1.5
10	2	100	1.6	2.0	20	4x6	PP 3/8"	1.5

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

Power supply: **230 Vac -1 phase - 50/60 Hz / ± 10%** Power cable: **3 m grounded without plug**

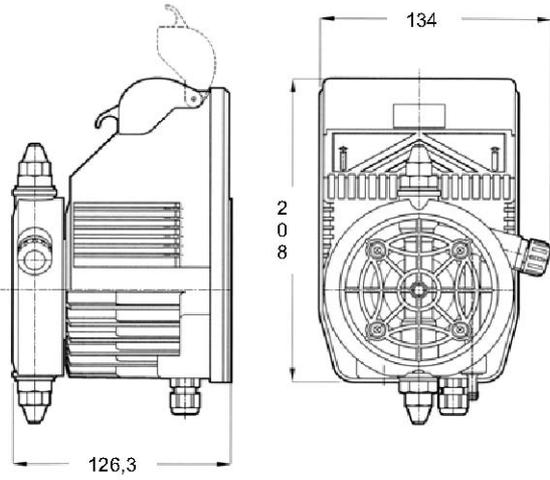
Recommended frequency adjustment: **10 - 100%** Voltage working range: **min 207v - Max 253v** Available upon request: 110 Vac -1 phase - 60 Hz Ambient working temperature: 45°C

under standard conditions: r 5% Voltage Peak: Max 270v Voltage working range: min 207v - Max 253vReproducibility

Plastic housing: **PP reinforced** Wall mounting bracket: **Polypropylene**

**HC100 P-I is provided with a Standard Hose Accessory Kit:**

- 1 No -PP Non return Injection fitting (sleeve type)
  - 1 No -PP Foot valve strainer with lip valve
  - 2 m -Discharge Hose (PE)
  - Screws and plugs for pump mounting bracket
  - 2 m -PVC clear suction hose *For Ball valve version:*
  - 1.5 m – PVC clear priming hose
  - 1 No -Injection Valve- hastelloy spring -ball Pyrex
- Upon Request: Low Level facility & Low Level switch



HC1 series dimensions and packing

Packing size (mm): 220 x 170 x 210  
Packing volume: 0.008 m<sup>3</sup>

Packing weight: 2.5 - 3 kg

Technical Data Sheet  
**HC100 P-I**