



DOSING SYSTEM Solenoid Driven Dosing Pumps

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HC201

Technical Data Sheet
HC2 series

KEY FEATURES



- Programmable Microprocessor with several control options
- PTFE diaphragm
- Electronic Frequency control
- Manual Stroke length adjustment
- Multifunction dosing modes
- Digital keypad controls
- Stop/Start button
- Dosing Head with integral priming valve
- Double Ball check valves
- Horizontal Mounting
- Optional Vertical mount bracket at extra cost
- Reinforced Plastic PP housing IP65
- Supplied complete with hose accessory kit
- Level control predisposition

The **HC201** is a multifunctional electronic solenoid driven dosing pump that has several electronic control options and incorporates a mechanical stroke length adjustment feature as well as electronic frequency control.

PUMP CONTROL MODE

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

Programming modes:

- **Manual mode:** enables you to select the exact number of strokes, between 1-120 strokes per minute which can be used to prime the pump.
- **Pulse Multiplication mode:** 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 from a single pulse.
- **Pulse Division mode:** The pump will stroke in response to external pulses. The impulse counter enables you to set the number of pulses received before the pump does 1 stroke.
- **Milliamp mode:** The pump will stroke in response to an external Milliamp signal. The pump control panel enables you to spread the dosing pumps output across all or some of the milliamp signal. There are also 2 set points for creating your own dosing bandwidth.

Level control: level switch stops the pump when chemical level runs low allowing the pump to stay primed.

LIQUID ENDS MATERIAL HC2

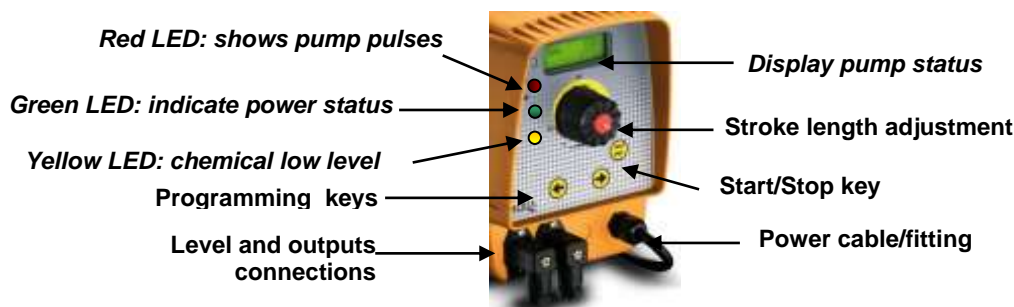
| | Standard Version | Upon request |
|--------------------------------|------------------------|-----------------------------------|
| Pump head | PP | PVC; S.S. 316; PVDF |
| Diaphragm | PTFE | ----- |
| Balls | PIREX | S.S.316; PTFE; CERAMIC |
| Connection fitting | PP | PVC; PVDF ; S.S. 316 |
| Seals/O-rings | 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 |

TECHNICAL CHARACTERISTICS HC2 SERIES

| 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 | | | | | | | |
| HC201 02-18 | 2 | 18 | 120 | 0,27 | | | 4x6 | PP 3/8" 2-15 | 1,5 |
| HC201 04-18 | 4 | 18 | 120 | 0,55 | | | 4x6 | PP 3/8" 2-15 | 1,5 |
| HC201 09-09 | 9 | 9 | 120 | 1,25 | | | 4x6 | PP 3/8" 2-15 | 1,5 |
| HC201 15-04 | 15 | 4 | 120 | 2,08 | | | 4x6 | PP 3/8" 2-15 | 1,5 |

| HC2 CURVES | Flow at max pressure | | Flow at median pressure | | Flow at 1 bar | |
|------------|----------------------|-----|-------------------------|-----|---------------|-----|
| | l/h | bar | l/h | bar | l/h | bar |
| Pump Type | | | | | | |
| 02-18 | 2 | 18 | | 9 | | 1 |
| 04-18 | 4 | 18 | | 9 | | 1 |
| 09-09 | 9 | 9 | | 4 | | 1 |
| 15-04 | 15 | 4 | | 2 | | 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



| | |
|---|--|
| 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 |
| Connector: 4 pole IP66 | Voltage Peak: Max 270 V |
| Reproducibility under standard conditions: ± 5% | Plastic housing and support: PP reinforced; IP65 |

HC201 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 dibles for pump mounting

HC2 series dimensions and packing

Packing weight: 4,5 kg
 Packing size (mm): 240 x 340 x 250
 Packing volume: 0,01 m³

