



**DOSING SYSTEMS**  
**Solenoid Driven Dosing Pumps**

**HC 400**

**Technical Data Sheet**  
**HC4 series**



**KEY FEATURES**

- Stroke Frequency control 0-100% & 0-20%
- PTFE Diaphragm
- On-Off dosing control
- LED status Indicators
- Analogue Controls
- On-Off power switch
- Lip Valves - Double Ball valves on request
- Supplied as shown for vertical mount (Can be converted for horizontal mounting)
- Reinforced Plastic PP housing
- Supplied complete with hose accessory kit

The **HC400** 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 facia.

**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.

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

LIQUID END MATERIAL HC400 SERIES		
	Standard Version	Upon request
Pump head	PP	PVC - AISI 316 - PTFE
Diaphragm	PTFE	-----
Lip Valve	Viton®	Dutral® - NBR
Connection fitting	PP	AISI 316
Seals/O-rings	Viton®	Dutral® - NBR
Injection Non return Valve	Viton®	Dutral® - NBR
Injection Fitting	PP	AISI 316 - PTFE
Foot Valve/Filter Fitting	PP	AISI 316 - PTFE
Suction Hose /Priming hose	PVC	-----
Discharge Hose	PE	-----
<b>Upon request:</b> Ball check valve	<b>Glass Pyrex</b>	AISI 316 - PTFE
Valve body	PP	AISI 316 – PTFE -PVDF
Spring loaded injection valve:	<b>Hastelloy/Pyrex</b>	Hastelloy/AISI316 - PTFE

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

### TECHNICAL CHARACTERISTICS HC4 SERIES

Model	Max Flow at Max Pressure		Stroke frequency	Stroke volume	Stroke length	Power cons.	Hose size	Pump head (connections)	Max suction
	l/h	bar	per min.	MI	mm	Watt	mm	model	lift m
HC 400 20-05	20	5	150	2.22		20	4x6	PP 3/8"	1.5
HC 400 30-02	30	2	150	3.33		20	10x14	PVC 1/2"	1.5
HC 400 50-0.5	50	0.5	150	5.55		20	10x14	PVC 1/2"	1.5

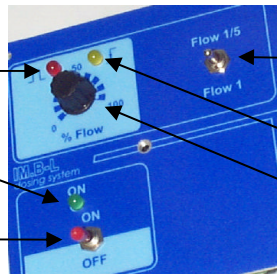
Model	TYPICAL OUTPUT HC1		Flow at max pressure		Flow at median pressure		Flow at 1 bar	
	l/h	bar	l/h	bar	l/h	bar	l/h	bar
20-05	20	5	22	2.5	24	1		
30-02	30	2	35	1	38	0.5		
50-0.5	50	0.5	55	0	-	-		

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

Red LED: shows pump running status

Green LED: indicates pump power status

Power switch



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

Pulse Indicator

Flow-rate: frequency adjustment knob

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

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

Recommended frequency adjustment: 10 - 100%

Reproducibility under standard conditions: ± 5%

Pump Body: Aluminium

Power cable: 3 m grounded without plug

Ambient working temperature: 45°C

Voltage working range: min 207v - Max 253v

Voltage Peak: Max 270v

Pump can be converted for horizontal mounting

#### HC400 is provided with a Standard Hose Accessory Kit:

1 No - PP Non return Injection fitting

2 m - Discharge Hose (PE)

2 m - PVC clear suction hose

1.5 m - PVC clear priming hose

1 No - PP Foot valve strainer with lip valve

Screws and plugs for pump mounting bracket

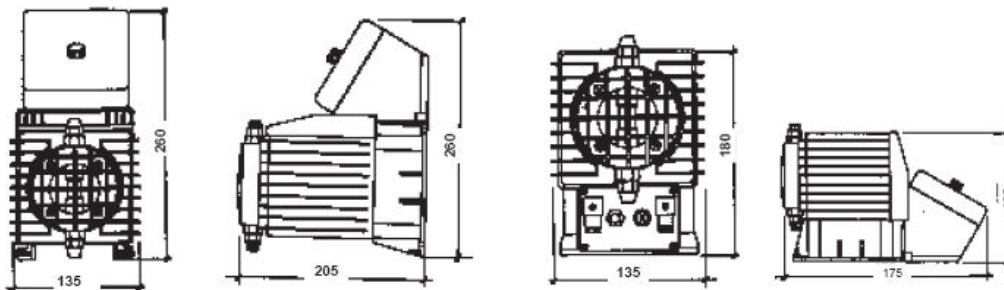
For Ball valve version:

1 No - Injection Valve- hastelloy spring -ball Pyrex

### Overall Dimensions

Vertical Mount

Horizontal Mount



Pump Weight 4.6 kg



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