

General Description

The Encore® M series is an economical line of motor driven, mechanical diaphragm metering pumps. This versatile line offers two versions to meet a variety of applications. The intelligent Encore® MB offers state-of-the-art microprocessor control. By integrating the speed control, the Encore® MB eliminates the need for the further expense of additional variable speed controllers.

High quality mechanics, combined with the proven reliability of our Encore® M series brains, brings advanced technology to the metering pump industry.

There are two chassis sizes within the Encore® M family. The smaller size is rated for capacities up to 158.97 lph. The larger size is rated for capacities up to 348.22 lph. Pressure ranges are available to 10.3 bar, depending on pump capacity. Check valves are double ball or spring-loaded single ball design.

Encore® MB

Application Flexibility

- Up to 1400:1 turndown provides more precision in process control
- Automatic or manual control
- NEMA 4X enclosure protects electronics in harsh environments

Microprocessor Control

- Integrated speed control allows for the selection of several control signals:
 - pulse/contact control
 - multiplication/division capabilities
 - analog control 4-20 mA, 0-20 mA
- Remote start/stop capabilities
- Input signal monitoring and output alarms

User Friendly

- Touch pad and LCD display
- Self-diagnostic system for monitoring chemical feed process. Messages displayed for tank low level & loss of analog signal.



Options

- Double diaphragm liquid end
- Leak detection
- Tank low level indication and alarm

Materials of Construction

Liquid ends of Polypropylene, PVC, PVDF and 316 Stainless Steel. Diaphragms are PTFE-coated EPDM. Seals of Viton®, Hypalon® or PTFE are available.

Technical Data

Chassis Size		4 - 156								160 - 300		
Model		4	8	15	26	50	76	110	156	160	200	300
Capacity	gph	1.2	2.3	4.7	6	15.2	19	33.8	42.2	49	66	92
Capacity	l/h	4.7	8.7	17.7	22.7	57.5	71.9	127.9	159.7	185.4	249	348
Maximum pressure	bar	10.34						5.17	4.13	10.34		8.62
Capacity/stroke	ml	2.6				8.5		19		36.5		51.2
Stroke frequency	SPM	32	58	114	140	114	140	114	140	85	114	114
Diaphragm diameter	in.	2.04				2.51		3.54		4.72		5.9
Suction lift	M H ₂ O	4				3.25		3		2.5		
Stroke length	in.	0.2				0.35				0.393		
Motor - 1-phase	Hp	1/6								1/3		
Ambient temperature	°C	PVC & Polypro: 40°; PVDF: 48°; 316S: 60°										
Gear Ratio		55:1	30:1	15:1	12:1	15:1	12:1	15:1	12:1	20:1	15:1	15:1

