General Description

The Encore® EB line of solenoid driven metering pumps combines the digital technology of state-of-the-art microprocessors with the durability of high-quality mechanics. Its versatility and wide range of external control options make it ideal for a variety of applications. The pump can be supplied with a user-friendly digital display that shows the different operating modes and further technical messages.

The Encore® EB is available with the following features:

- Capacities from 4.7 gph 27.7 gph with pressures up to 150 psig (set by manually changing the stroke length via the stroke length adjustment knob).
- Manual control with continuous stroke frequency adjustment from 0 - 70 strokes per minute.
- Changeover function to external pulse control by water meter or other voltage free contacts.
- Connection for level indication with alarm signal.
- Optional warning alarm relay.
- Changeover function to external control by 0/4 - 20 mA analog signal.
- Pulse multiplication or division by factors of 2, 4, 8, 16, 32 or 64.
- Digital display.

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.

Options

- Diaphragm Leak Detection
- Tank Low level indication and alarm

Magnetic Drive

The stroke movement of the metering diaphragm is produced by a D.C. solenoid. Due to the infinitely adjustable stroke, the stroke length can be set anywhere between 20 - 100%, depending on the pump size. The solenoid design eliminates reduction gears or rotating parts, making the Encore® EB long-lasting and low-maintenance. The armature runs in a maintenance free bushing with PTFE coating and additional silicone grease lubrication.

Control Unit

The main part of the control unit is a microprocessor which controls the stroke frequency with digital accuracy. The various control possibilities allow Encore® EB to be adapted to practically all requirements of home water supply, water and waste water treatment as well as industrial processes. The electronic control unit is available in two basic versions with functions described below.

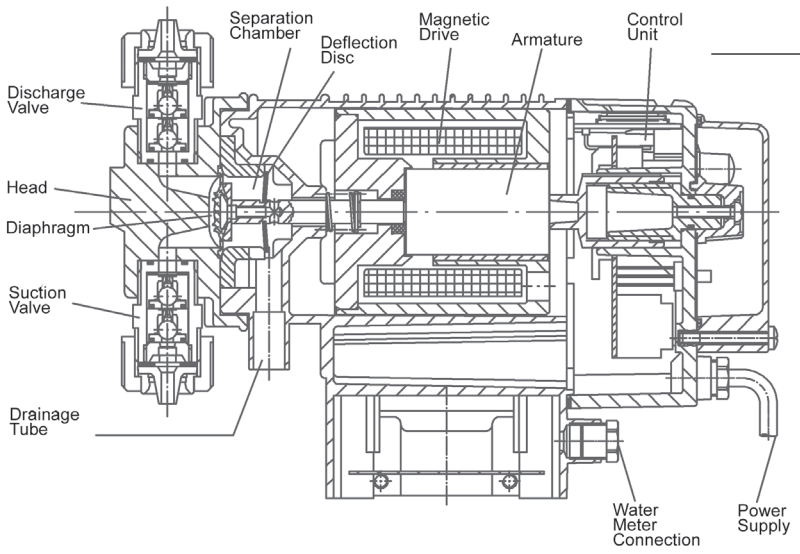
Functions		Encore® EB
Level Control with Alarm Signal		x
Low Level Indication		x
Warning Alarm Relay		o
Manual Control 0-100%		x
Contact		x
External Control	0-20 mA	x
	4-20 mA	x
Pulse Multiplication/Division		x
Stroke Frequency Adjustment		x
Digital Display		x

– = not available; x = standard; o = optional

UGSI Chemical Feed SOLUTIONS

Solenoid Driven Metering Pump - Encore® EB

Cross Section of Encore® EB



Control Unit

Model			20	40	100
Capacity		gph	4.7	12.7	27.7
Maximum pressure		psig	150	60	30
Power supply requirement		VAC Hz.	115, 50/60 or 230, 50/60		
Power supply cable (6 ft.)			UL/CSA Plug, 2 m with standard plug		
Maximum speed		SPM	70	70	
Power consumption at maximum speed		Watts	66	70	
Current consumption during stroke		Amps	7.4	4.1	
Protection class			NEMA 4X		
Insulation class			F		
Input pulse duration			min. 30 ms		
Maximum carrying capacity @ voltage amps			250 VAC, 2.5 A // 30 VDC, 2.5 A		
Solenoid excitation time per pulse		ms	190	180	
Voltage to low level probe		VDC	5 for potential-free switches		
Voltage to pulse input					
Impedance to 0/4 - 20 mA input		Ohm	150		
Maximum suction lift (water)		ft.	6’	5’	4’
Maximum ambient temperature		°F	104		
Maximum temperature of process fluid	PVC	°F	95		
	PP, PVDF, SS	°F	122		
Pump weight	Plastic	lbs.	29		
	316SS	lbs.	33		

*Maximum lift (water): Encore® EB 20 = 6 ft.; Encore® EB 40 = 5 ft.; Encore® EB 100 = 4 ft.

UGSI Chemical Feed, Inc. 1901 West Garden Road, Vineland, NJ 08360 USA
Phone: 856-896-2160 Fax: 856-457-5920
E-Mail:info@ugsichemicalfeed.com http://ugsichemicalfeed.com
Toll Free: 1-855-669-3845