

## General Description

The MEMDOS 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 base model, MEMDOS E, is a manually controlled version. For applications requiring control by an external signal, the intelligent MEMDOS DX offers state-of-the-art microprocessor control. By integrating the speed control, the MEMDOS DX eliminates the need for the further expense of additional variable speed controllers.

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

There are two chassis sizes within the MEMDOS E and MEMDOS DX family. The smaller size is rated for capacities up to 42 gph. The larger size is rated for capacities up to 92 gph. Pressure ranges are available to 150 psi, depending on pump capacity. Check valves are double ball or spring-loaded single ball design.

## MEMDOS E

- Stroke length control features 10:1 turndown
- Capacities up to 92 gph, pressures up to 150 psig

## MEMDOS DX

### 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
- Automatic stroke length control (E model only)
- Leak detection
- Tank low level indication and alarm (DX model only)

## 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	psig	150						75	60	150		125
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	ft H <sub>2</sub> O	13				11		10		8		
Stroke length	in.	0.2				0.35				0.393		
Motor - 1-phase E/DX	Hp	1/6						1/3				
Motor - 3-phase E	Hp	1/3						1/2				
Max. ambient temperature	°F	PVC & Polypro: 104°; PVDF: 120°; 316S: 140°										
Gear Ratio		55:1	30:1	15:1	12:1	15:1	12:1	15:1	12:1	20:1	15:1	15:1

