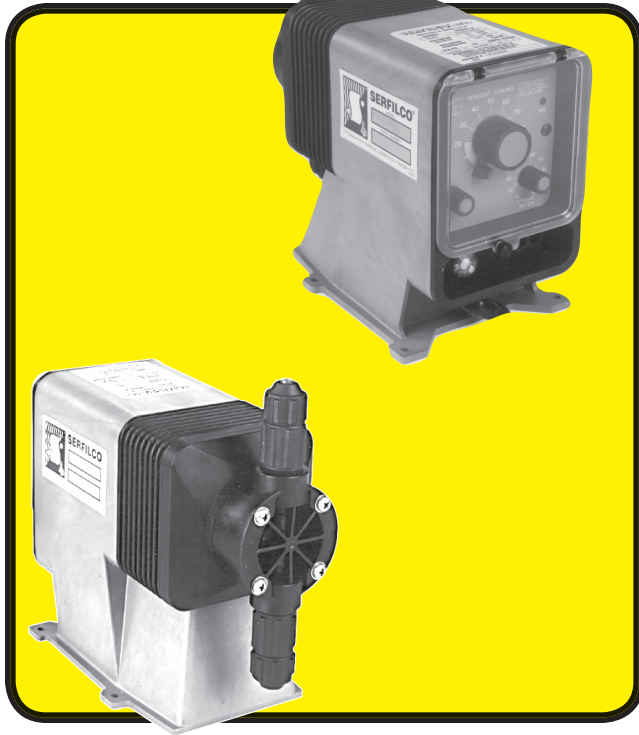




ELECTRONIC METERING PUMPS



Precise chemical additions for:

**WATER TREATMENT / PLATING
WASTE TREATMENT / COOLING TOWERS
BOILERS / FINISHING / POLYMERS
PROCESS CONTROL / CLEANING TANKS**

SWIMMING POOLS / BIOCIDES

**Affordability and reliability that satisfy
a variety of critical assignments:**

- Continuous duty rated
- Output capacities from 0 to 21 GPH (78 LPH)
- Excellent priming characteristics
- Glass - filled polypropylene / PTFE / ceramic wet end materials capable of handling ...

Acids	Soaps	Wetting Agents
Caustics	Brighteners	Inhibitors
Flocculents	Detergents	Filter aids
Chlorine	Dyes	... and many more

 CERTIFIED and **NSF** listed.

Our design goal from the beginning was to offer a better pump at a better price. The result is our new line of electronic pumps. We made the commitment, now you can realize the benefits: unsurpassed performance at a price that is significantly less than you would expect to pay.

Quality components make these electronic metering pumps

extremely reliable so repair and replacement of parts are cut to a minimum. In addition, the simplicity of the design makes it very easy to perform planned maintenance or service. RENEW KITS are designed to guard against downtime and assure you of uninterrupted service from our pumps. See OPTIONS for ordering information.

- **DOUBLE BALL CHECK VALVES WITH TFE SEATS**
- for maximum corrosion resistance and priming capability
- **CARTRIDGE VALVE DESIGN**
- for easy maintenance and prevention of damage to valve seats
- **ON - OFF SWITCH**
- for on-off control independent of frequency setting
- **DIGITAL TIMING CIRCUIT**
- for precision and durability
- **EMI PROTECTION**
- for uninterrupted performance
- **THERMALLY PROTECTED SOLENOID WITH AUTO-RESET**
- for durability in harsh environments
- **EXTERNAL, FACE-MOUNTED CIRCUIT BREAKER**
- for surge protection and quick reset

- **3 FREQUENCY CONTROL CONFIGURATIONS AVAILABLE**
- for control versatility
- **INDICATOR LIGHTS**
- for easy monitoring
- **STRAIGHT, FLOW-THROUGH HEAD DESIGN**
- for higher suction lift and quicker priming
- **FULL GASKETED CONTROL PANEL**
- protects internals from moisture and chemical attack
- **TRANSPARENT CONTROL COVER**
- for protection against liquid infiltration
- **DUAL-FUNCTION CONTROLS**
- stroke length and frequency control provide for 100:1 turndown ratio
- **LOCKING STROKE LENGTH ADJUSTMENT**
- for precision and reliability

READY TO INSTALL

Complete with injection anti-siphon valve, foot valve with strainer, and start-up tubing.

SERIES 'M' PUMP Specifications

SPECIFICATIONS

Materials of construction	GFPP head, ceramic balls, PTFE diaphragm, seats and "O"-rings	Temperature (Max.) Pumped liquid @ 150 PSIG/10 BAR 190° F (87° C) (Glass filled PP) @ 250 PSIG/17 BAR 140° F (60° C) (Glass filled PP)
Current draw @ 115 VAC	1.0 Amps	Tubing size For flow rates - less than 3.91 GPH 1/4" I.D. x 3/8" O.D. greater than 3.91 GPH 3/8" I.D. x 1/2" O.D.
Viscosity (Max.)	1000 CPS (see OPTIONS for higher)	
Suction lift @ 1CPS @ 3000 CPS	10 ft. (3.1 M) 3.5 ft. (1.1 M)	
Stroke frequency (Max.)	125 SPM	

3 FREQUENCY CONTROL CONFIGURATIONS AVAILABLE

SERIES 'S' Internal adjustment:

Operator adjustable stroke length and stroke frequency controls. ON-OFF, no external control function.

SERIES 'E' External pulse control:

Stroke frequency adjustment controlled by switch contact closure/external pulse (pH/ORP or flow meter, current to frequency converter). Operator adjustable stroke length control. Includes stop input¹ and 2 ten foot (3 M) control cables. Manual -OFF-AUTO

SERIES 'M' Direct response:

Stroke frequency adjustment controlled by an external 4 - 20 mA DC signal. (i.e. computer or control system input.) Operator adjustable stroke length control. Includes stop input¹ and 2 ten foot (3 M) control cables. Manual OFF - External.

¹ Stop input.

Operation of the pump can be stopped by an external signal input, which overrides both manual settings and external input signals. Stop function is commonly used with a tank level switch or flow control. Input signal must be no-voltage (dry contact closure) from external relay contacts.

TO ORDER (115VAC/1/50-60 standard. For 230VAC/1/50-60, add **A** to Price Code No.

SERIES 'S' Internal adjustment		SERIES 'E' External pulse control		SERIES 'M' Direct response		MAXIMUM OUTPUT		MAXIMUM PRESSURE		SHIPPING WEIGHT	
MODEL NO.	PRICE CODE NO.	MODEL NO.	PRICE CODE NO.	MODEL NO.	PRICE CODE NO.	GPH	LPH	PSI	BAR	LBS.	KG.
PD3S	10-1300	PD3E	10-1310	PD3M	10-1320	.45	1.7	250	17	18	8.2
PG4S	10-1302	PG4E	10-1312	PG4M	10-1322	1.75	6.6	150	10	21	9.5
PA3S	10-1304	PA3E	10-1314	PA3M	10-1324	.50	1.9	100	07	18	8.2
PB4S ²	10-1305	PB4E	10-1315	PB4M	10-1325	1.00	3.8	100	07	18	8.2
PE4S ²	10-1306	PE4E	10-1316	PE4M	10-1326	1.83	6.9	100	07	18	8.2
PG5S	10-1307	PG5E	10-1317	PG5M	10-1327	3.91	14.8	100	07	21	9.5
PH6S	10-1308	PH6E	10-1318	PH6M	10-1328	5.00	18.9	100	07	21	9.5
PH7S	10-1309	PH7E	10-1319	PH7M	10-1329	10.00	37.8	35	02	26	11.8
PH8S	10-1335	PH8E	10-1336	PH8M	10-1337	20.8	78.8	20	1.3	30	13.6

²Consult Application Engineering Dept. for 12V DC Model.

OPTIONAL EQUIPMENT

ITEM	DESCRIPTION	PRICE CODE NO.
Bleed valve	Relieves line pressure	3/8" hose 10-1338
	and aids in priming	1/2" hose 10-1330
PTFE ball checks (Installed)	Replaces standard ceramic ball checks	10-1331
High viscosity (Installed)	SS ball checks, spring loaded oversized valves. Replaces standard valves (for up to 10,000 CPS)	10-1332
PVC wet end (Installed)	PVC pump head & fitting bodies Replaces standard PPL wet end	Add P to pump Price Code
Renew kit	Includes head, diaphragm, valve cartridges, "O"-rings, bolts	See note
NOTE: Renew Kits are the same for all model pumps of the same performance. Add -K to pump Model No. and K to Price Code No. of comparable Series 'S' pump. (i.e. order PD3S-K for renew kit for PD3M)		

RENEW KITS:

Keep your metering pump in top shape with the RENEW KIT. This handy package of important replacement parts can reduce downtime, maximize performance and prolong the life of your quality electronic metering pump. Kit includes entire pump wet end components, conveniently wrapped and labeled as shown.



OPTIONAL BLEED VALVE

For solution tanks and drum liquid level switch, see Bulletin P-607, page 4, or contact Application Engineering Department.