

# PULSAFEEDER®

The Pulsatron Series E-DC offers manual function controls over stroke length and stroke rate providing a turn down ratio of 100:1. Our best value in a pump with this capacity and powered by 12 Volt DC.

Four distinct models are available, having pressure capabilities to 150 PSIG (10 BAR) @ 6 GPD (0.25 lph), and flow capacities to 44 GPD (7.0 lph) @ 100 PSIG (7 BAR), with a turndown ratio of 100:1. Metering performance is reproducible to within  $\pm 3\%$  of maximum capacity.

## Features

- Powered by 12 Volt DC.
- Manual Control by on-line adjustable stroke rate and stroke length.
- Highly Reliable timing circuit.
- Water Resistant, for outdoor and indoor applications.
- Internally Dampened To Reduce Noise.
- Guided Ball Check Valve Systems, to reduce back flow and enhance outstanding priming characteristics.
- Few Moving Parts and Wall Mountable.
- Safe & Easy Priming with durable leak-free bleed valve assembly (standard).

## Controls



### Manual Stroke Rate

- Turn-Down Ratio 10:1

### Manual Stroke Length

- Turn-Down Ratio 10:1

## Operating Benefits

- Reliable metering performance.
- Rated “hot” for continuous duty.
- High viscosity capability.
- Leak-free, sealless, liquid end.



## Aftermarket

- KOPkits
- Gauges
- Dampeners
- Pressure Relief Valves
- Tanks
- Pre-Engineered Systems
- Process Controllers (MicroVision)



<sup>1</sup> Tested and Certified by WQA against NSF/ANSI 61 & 372.



**PULSAtron® Series E-DC**  
**Electronic Metering Pumps**

<sup>1</sup> PVDF and Degassing Head Pumps  
See [www.wqa.org](http://www.wqa.org) for certification parameters

# PULSAtron® Series E-DC

## Specifications and Model Selection

MODEL		LS02	LS13	LS14	LS44
Capacity nominal (max.)	GPH	0.25	0.50	1.00	1.85
	GPD	6	12	24	44
	LPH	0.9	1.9	3.8	7.0
Pressure (max.)	PSIG	150	150	100	100
	BAR	10	10	7	7
Connections:	Tubing	1/4" ID X 3/8" OD 3/8" ID X 1/2" OD			
	Piping	1/4" FNPT			

### Engineering Data

<b>Pump Head Materials Available:</b>	GFPPPL
	PVC
	PVDF
	316 SS
<b>Diaphragm:</b>	PTFE-faced CSPE-backed
<b>Check Valves Materials Available:</b>	
<b>Seats/O-Rings:</b>	PTFE
	CSPE
	Viton
<b>Balls:</b>	Ceramic
	PTFE
	316 SS
	Alloy C
<b>Fittings Materials Available:</b>	GFPPPL
	PVC
	PVDF
<b>Bleed Valve:</b>	Same as fitting and check valve selected, except 316SS
<b>Injection Valve &amp; Foot Valve Assy:</b>	Same as fitting and check valve selected
<b>Tubing:</b>	Clear PVC
	White PE

Important: Material Code - GFPPPL=Glass-filled Polypropylene, PVC=Polyvinyl Chloride, PE=Polyethylene, PVDF=Polyvinylidene Fluoride, CSPE=Generic formulation of Hypalon, a registered trademark of E.I. DuPont Company. Viton is a registered trademark of E.I. DuPont Company. PVC wetted end recommended for sodium hypochlorite.

### Dimensions

Series E-DC Dimensions (inches)						
Model No.	A	B	C	D	E	Shipping Weight
LS02	5.0	9.6	9.6	6.5	8.2	10
LS13	5.0	9.9	9.5	6.5	8.5	10
LS14	5.0	9.9	9.5	6.5	8.5	10
LS44	5.0	10.6	11.4	7.5	9.2	15

NOTE: Inches X 2.54 = cm

### Engineering Data

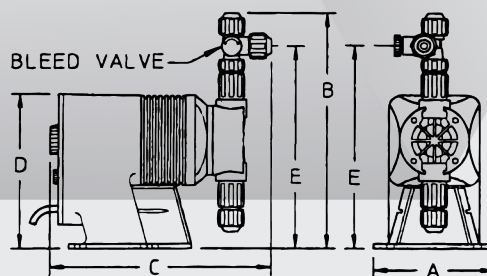
<b>Reproducibility:</b>	+/- 3% at maximum capacity
<b>Viscosity Max CPS:</b>	
<b>LS02, 13:</b>	300 CPS
<b>LS14, 44:</b>	1000 CPS
<b>Stroke Frequency Max SPM:</b>	125
<b>Stroke Frequency Turn-Down Ratio:</b>	10:1
<b>Stroke Length Turn-Down Ratio:</b>	10:1
<b>Power Input:</b>	12.6 VDC Nominal Range 11.8-14.0 VDC
<b>Average Current Draw:</b>	
<b>LS02, 13, 14 Amps:</b>	4.0 Amps
<b>LS44 Amps:</b>	8.0 Amps
<b>Peak Input Power:</b>	
<b>LS02, 13, 14 Amps: Power:</b>	138.6 Watts
<b>LS44 Amps: Power:</b>	189 Watts
<b>Average Input Power @ Max SPM:</b>	
<b>LS02, 13, 14 Amps: Power:</b>	50.4 Watts
<b>LS44 Amps: Power:</b>	100.8 Watts

### Custom Engineered Designs – Pre-Engineered Systems



#### Pre-Engineered Systems

Pulsafeeder's Pre-Engineered Systems are designed to provide complete chemical feed solutions for all electronic metering applications. From stand alone simplex pH control applications to full-featured, redundant sodium hypochlorite disinfection metering, these rugged fabricated assemblies offer turn-key simplicity and industrial-grade durability. The UV-stabilized, high-grade HDPE frame offers maximum chemical compatibility and structural rigidity. Each system is factory assembled and hydrostatically tested prior to shipment.



**PULSAFEEDER**

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