

# PULSAFEEDER®

The PULSAtron Series E Plus offers manual control over stroke length and stroke rate as standard with the option to choose between 4-20mA and external pace inputs for automatic control.

Twenty distinct models are available, having pressure capabilities to 300 PSIG (21 BAR) @ 3 GPD (0.5 lph), and flow capacities to 600 GPD (94.6 lph) @ 30 PSIG (2 BAR), with a turndown ratio of 100:1. Metering performance is reproducible to within  $\pm 2\%$  of maximum capacity. Please refer to the reverse side for Series E PLUS specifications.

## Features

- Automatic Control, available with 4-20mADC direct or external pacing, with stop function.
- Manual Control by on-line adjustable stroke rate and stroke length.
- Auto-Off-Manual switch.
- Highly Reliable timing circuit.
- Circuit Protection against voltage and current upsets.
- Panel Mounted Fuse.
- Solenoid Protection by thermal overload with auto-reset.
- Water Resistant, for outdoor and indoor applications.
- Indicator Lights, panel mounted.
- Guided Ball Check Valve Systems, to reduce back flow and enhance outstanding priming characteristics.
- 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

### 4-20mADC Direct or External Pacing with Stop

- Automatic Control

## 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)



Tested and Certified by WQA  
against NSF/ANSI 61 & 372.



PVDF & PVC Degass Head Pumps.  
See [www.wqa.org](http://www.wqa.org) for  
certification parameters.

## PULSAtron® Series E Plus Electronic Metering Pumps

# PULSAtron® Series E Plus

## Specifications and Model Selection

MODEL		LPK2	LPB2	LPA2	LPD3	LPB3	LPA3	LPK3	LPF4	LPD4	LPB4	LPH4	LPG4	LPE4	LPK5	LPH5	LPG5	LPH6	LPK7	LPH7	LPJ7	LPH8
Capacity nominal (max.)	GPH	0.13	0.21	0.25	0.5	0.50	0.50	0.60	0.85	0.90	1.00	1.70	1.75	1.85	2.50	3.15	4.00	5.00	8.00	10.00	10.00	25.00
	GPD	3	5	6	12	12	12	14	20	22	24	41	42	44	60	76	96	120	192	240	240	600
	LPH	0.5	0.8	0.9	1.9	1.9	1.9	2.3	3.2	3.4	3.8	6.4	6.6	7	9.5	11.9	15.1	18.9	30.3	37.9	37.9	94.6
Pressure (max.)	PSIG	300	250	150	250	150	100	100	250	150	100	250	150	100	150	150	100	100	50	35	80	30
	BAR	21	17	10	17	10	7	7	17	10	7	17	10	7	10	10	7	7	3.3	2.4	5.5	2
Connections	Tubing	1/4" ID X 3/8" OD 3/8" ID X 1/2" OD										3/8" ID X 1/2" OD 1/2" ID X 3/4" OD (LPH8 ONLY)										
	Piping	1/4" FNPT										1/4" FNPT 1/2" FNPT										

### Engineering Data

**Pump Head Materials Available:** GFPPPL  
PVC  
PVDF  
316 SS

**Diaphragm:** PTFE-faced CSPE-backed

**Check Valves Materials Available:**

**Seats/O-Rings:** PTFE  
CSPE  
Viton

**Balls:** Ceramic  
PTFE  
316 SS  
Alloy C

**Fittings Materials Available:** GFPPPL  
PVC  
PVDF

**Bleed Valve:** Same as fitting and check valve selected, except 316SS

**Injection Valve & Foot Valve Assy:** Same as fitting and check valve selected

**Tubing:** 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.

### Engineering Data

**Reproducibility:** +/- 2% at maximum capacity

**Viscosity Max CPS :**  
For viscosity up to 3000 CPS, select connection size 3, 4, B or C with 316SS ball material. Flow rate will determine connection/ball size. Greater than 3000 CPS require spring loaded ball checks. See Selection Guide for proper connection.

**Stroke Frequency Max SPM:** 125

**Stroke Frequency Turn-Down Ratio:** 10:1

**Stroke Length Turn-Down Ratio:** 10:1

**Power Input:** 115 VAC/50-60 HZ/1 ph  
230 VAC/50-60 HZ/1 ph

**Average Current Draw:**

**@ 115 VAC; Amps:** 1.0 Amps

**@ 230 VAC; Amps:** 0.5 Amps

**Peak Input Power:** 300 Watts

**Average Input Power @ Max SPM:** 130 Watts

**Approvals:** Conforms to ANSI/NSF STD. 50

### 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.

### Dimensions

Series E Plus Dimensions (inches)																	
Model No.	A	B	B1	C	C1	D	E	Shpg Wt	Model No.	A	B	B1	C	C1	D	E	Shpg Wt
LPA2	5.4	10.3	-	10.8	-	7.5	8.9	13	LPG5	5.4	10.9	-	11.7	-	7.5	9.5	18
LPA3	5.4	10.6	-	10.7	-	7.5	9.2	13	LPH4	6.2	10.9	-	11.2	-	8.2	9.5	21
LPB2	5.4	10.3	-	10.8	-	7.5	8.9	13	LPH5	6.2	11.3	-	11.2	-	8.2	9.9	21
LPB3	5.4	10.6	-	10.7	-	7.5	9.2	13	LPH6	6.2	11.3	-	11.9	-	8.2	9.9	21
LPB4	5.4	10.6	-	10.7	-	7.5	9.2	13	LPH7	6.1	11.7	-	11.9	-	8.2	10.3	21
LPD3	5.4	10.6	-	11.2	-	7.5	9.2	15	LPH8*	6.1	-	10.9	-	11.3	8.2	-	26
LPD4	5.4	10.6	-	11.2	-	7.5	9.2	15	LPK2	5.4	10.3	-	10.8	-	7.5	8.9	13
LPE4	5.4	10.6	-	11.2	-	7.5	9.2	15	LPK3	5.4	10.6	-	10.7	-	7.5	9.2	13
LPF4	5.4	10.6	-	11.7	-	7.5	9.2	18	LPK5	5.4	10.9	-	11.7	-	7.5	9.5	18
LPG4	5.4	10.6	-	11.7	-	7.5	9.2	18	LPK7	6.1	11.7	-	11.2	-	8.2	10.3	21
									LPJ7	6.1	10	-	10.7	-	-	-	21

NOTE: Inches X 2.54 = cm /" the LPH8 is designed without a bleed valve available

