

The Pulsatron Series A Plus offers manual function controls over stroke length and stroke rate as standard with the option to select external pace for automatic control.

Ten distinct models are available, having pressure capabilities to 250 PSIG (17 BAR) @ 12 GPD (1.9 lph), and flow capacities to 58 GPD (9.1 lph) @ 100 PSIG (7.0 BAR), with a standard turndown ratio of 100:1, and optional ratio of 1000:1. Metering performance is reproducible to within  $\pm 3\%$  of maximum capacity.

## Features

- Manual Control by on-line adjustable stroke rate and stroke length.
- Highly Reliable timing circuit.
- Circuit Protection against voltage and current upsets.
- Solenoid Protection by thermal overload with auto-reset.
- 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).
- Optional Control: External pace with auto/manual selection.

## Controls



**Manual Stroke Rate**

**Manual Stroke Length**

**External Pacing - Optional**

**External Pace With Stop - Optional (125 SPM only)**

### Controls Options

| Feature                              | Standard Configuration | Optional Configuration <sup>1</sup>  |
|--------------------------------------|------------------------|--------------------------------------|
| External Pacing                      | ---                    | Auto / Manual Selection <sup>2</sup> |
| External Pace w/ Stop (125 SPM only) | ---                    | Auto / Manual Selection <sup>2</sup> |
| Manual Stroke Rate                   | 10:1 Ratio             | 100:1 Ratio                          |
| Manual Stroke Length                 | 10:1 Ratio             | 10:1 Ratio                           |
| Total Turndown Ratio                 | 100:1 Ratio            | 1000:1 Ratio                         |

Note 1: On S2, S3 & S4 sizes only.

Note 2: Not available on 1000:1 turndown pumps.

## 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 (PULSAblue, MicroVision)



# PULSAtron® Series A Plus

## Specifications and Model Selection

| MODEL                        |                                                     |            | LBC2              | LB02     | LBC3     | LB03     | LB04    | LB64    | LBC4              | LBS2              | LBS3     | LBS4    |  |
|------------------------------|-----------------------------------------------------|------------|-------------------|----------|----------|----------|---------|---------|-------------------|-------------------|----------|---------|--|
| Capacity nominal (max.)      |                                                     | GPH        | 0.25              | 0.25     | 0.42     | 0.50     | 1.00    | 1.25    | 2.00              | 0.50              | 1.38     | 2.42    |  |
|                              |                                                     | GPD        | 6                 | 6        | 10       | 12       | 24      | 30      | 48                | 12                | 33       | 58      |  |
|                              |                                                     | LPH        | 0.9               | 0.9      | 1.6      | 1.9      | 3.8     | 4.7     | 7.6               | 1.9               | 5.2      | 9.14    |  |
| Pressure <sup>3</sup> (max.) | GFPP, PVDF, 316SS or PVC (W code) w/TFE Seats       | PSIG (Bar) | 250 (17)          | 150 (10) | 250 (17) | 150 (10) | 100 (7) | 100 (7) | 50 (3.3)          | 250 (17)          | 150 (10) | 100 (7) |  |
|                              | PVC (V code) Viton or CSPE Seats / Degas Liquid End |            | 150 (10)          |          |          |          |         |         |                   |                   |          |         |  |
|                              |                                                     |            |                   |          |          |          |         |         |                   |                   |          |         |  |
| Connections:                 |                                                     | Tubing     | 1/4" ID X 3/8" OD |          |          |          |         |         | 3/8" ID X 1/2" OD | 1/4" ID X 3/8" OD |          |         |  |
|                              |                                                     | Piping     | 1/4" FNPT         |          |          |          |         |         |                   |                   |          |         |  |
| Strokes/Minute               |                                                     | SPM        | 125               |          |          |          |         |         |                   |                   | 250      |         |  |

Note 3: Pumps with rated pressure above 150 PSI will be de-rated to 150 PSI Max. when selecting certain valve options, see Price Book for details.

## Engineering Data

**Pump Head Materials Available:** GFPP, PVC, PVDF, 316 SS, PTFE-faced CSPE-backed

**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:**

GFPP, 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 - GFPP=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:** +/- 3% at maximum capacity

**Viscosity Max CPS:** 1000 CPS

**Stroke Frequency Max SPM:** 125 / 250 by Model

**Stroke Frequency Turn-Down Ratio:** 10:1 / 100:1 by Model

**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: 0.6 Amps

@ 230 VAC; Amps: 0.3 Amps

**Peak Input Power:** 130 Watts

**Average Input Power @ Max SPM:** 50 Watts

## Custom Engineered Designs – Pre-Engineered Systems



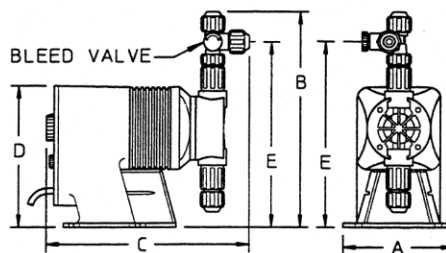
### Pre-Engineered Systems

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.

## Dimensions

| Series A PLUS Dimensions (inches) |     |     |     |     |     |                 |
|-----------------------------------|-----|-----|-----|-----|-----|-----------------|
| Model No.                         | A   | B   | C   | D   | E   | Shipping Weight |
| LB02 / S2                         | 5.0 | 9.6 | 9.5 | 6.5 | 8.2 | 10              |
| LBC2                              | 5.0 | 9.9 | 9.5 | 6.5 | 8.5 | 10              |
| LBC3                              | 5.0 | 9.9 | 9.5 | 6.5 | 8.5 | 10              |
| LB03 / S3                         | 5.0 | 9.9 | 9.5 | 6.5 | 8.5 | 10              |
| LB04 / S4                         | 5.0 | 9.9 | 9.5 | 6.5 | 8.5 | 10              |
| LB64                              | 5.0 | 9.9 | 9.5 | 6.5 | 8.5 | 10              |
| LBC4                              | 5.0 | 9.9 | 9.5 | 6.5 | 8.5 | 10              |

NOTE: Inches X 2.54 = cm



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