

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)



¹ Tested and Certified by WQA against NSF/ANSI 61-Section 8, and CSA B483.1



PULSAtron® Series E Plus
Electronic Metering Pumps

¹ PVDF and Degassing Head Pumps
See www.wqa.org for certification parameters

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 | 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 |
| (max.) | 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 | 50 | 35 | 80 | 30 | |
| | BAR | 21 | 17 | 10 | 17 | 10 | 7 | 7 | 17 | 10 | 7 | 17 | 10 | 7 | 10 | 10 | 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

Custom Engineered Designs – Pre-Engineered Systems



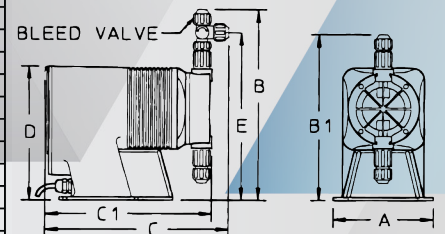
Pre-Engineered Systems

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 | LPH4 | 6.2 | 10.9 | - | 11.2 | - | 8.2 | 9.5 | 21 |
| LPA3 | 5.4 | 10.6 | - | 10.7 | - | 7.5 | 9.2 | 13 | LPH5 | 6.2 | 11.3 | - | 11.2 | - | 8.2 | 9.9 | 21 |
| LPB2 | 5.4 | 10.3 | - | 10.8 | - | 7.5 | 8.9 | 13 | LPG5 | 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



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