

PULSAtron®

Series D

Electronic Metering Pumps



Key Features

- **Completely Digital.** The Series D is easy to set-up with scrolling menus that appear on the easy to read 16 digit LCD backlit display.
- **Flow Control Option.** Create a flow control system. Pump will stop if you lose flow.
- **Hall Effect or Dry Contact** water meter input.
- **Four-button Touch Pad Control** with internationally recognized symbols for simplified programming.
- **Water Resistant** excellent for **OUTDOOR** and indoor applications.
- **Internally Dampened To Reduce Noise**, very acceptable for household installations.
- **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).

Complete Economical Selection

Six distinct models are available, having pressure capabilities to 250 PSIG, and flow capacities to 48 GPD, with a turndown ratio of 100:1. Metering performance is reproducible to within $\pm 3\%$ of maximum capacity.

Please refer to the reverse side for Series D specifications.

Operating Benefits

Reliable metering performance. Our guided check valves, with their state-of-the-art seat and ball designs, provide precise seating, and excellent priming and suction lift characteristics. Our timing circuit is highly reliable and, by design, virtually unaffected by temperature, EMI and other electrical disturbances.

Rated "hot" for continuous duty. Series D pumps continue to meet their specifications for pressure and capacity even during extended use. That's because of our high quality solenoid and special enclosure that effectively dissipates heat.

High viscosity capability. A straight flow path and ample clearance between the diaphragm and head enable standard PULSAtron pumps to handle viscous chemicals up to a viscosity of 1000 CPS.

Leak-free, sealless, liquid end. Our diaphragms are of superior construction—PTFE-faced, bonded to a composite of Hypalon and fabric layers, and reinforced

with a metal insert for optimum flexibility and durability.

System Compatibility

A wide variety of chemicals can be pumped.

Liquid end materials include glass-filled polypropylene (GFPP), PVC, styrene-acrylonitrile (SAN), Polyvinylidene Fluoride (PVDF), PTFE, Hypalon, Viton, ceramic, alloys and 316SS.

Immediate installation and start-up.

Included as standard accessories with all models are an injection/back pressure valve assembly and a foot valve/strainer assembly*, including discharge and suction tubing.

Safe and easy priming and valve maintenance.

Included as a standard accessory is a bleed valve assembly, including return tubing (available only on those models with tubing connections).



For additional information about PULSAtron's full-featured Series MP & Series E PLUS, refer to Technical Sheet No. EMP-027 & EMP-021, about the mid-range Series E & Series A PLUS refer to Technical Sheet No. EMP-022 & EMP-025. For information about the economical Series C PLUS & Series C, refer to Technical Sheet No. EMP-026 & EMP-024.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

technology
innovation diversity
excellence

PULSAtron Series D Specifications

Series D - Six model selections. Digit 1 and 2 (LF) signify product class, digit 3 and 4 signify pressure flow. For full model selection information refer to Price Schedule EMP-PS LP.

Pressure and Flow Rate Capacity

| | | | | | | | |
|------------------------|------|------|------|------|------|------|------|
| Capacity, nominal | GPH | 0.25 | 0.45 | 0.50 | 1.00 | 1.25 | 2.00 |
| | GPD | 6 | 11 | 12 | 24 | 30 | 48 |
| | LPH | 0.9 | 1.7 | 1.9 | 3.8 | 4.7 | 7.6 |
| Pressure, max PSIG/Bar | | | | | | | |
| 250/17 | --- | LFC3 | --- | --- | --- | --- | --- |
| 150/10 | LF02 | --- | LF03 | --- | --- | --- | --- |
| 100/7 | --- | --- | --- | LF04 | LF64 | --- | --- |
| 50/3.3 | --- | --- | --- | --- | --- | --- | LFC4 |

Options

Add a flow switch to the Series D to create a Flow Control System. Available in 3/4" and 1" for easy installation in most systems.

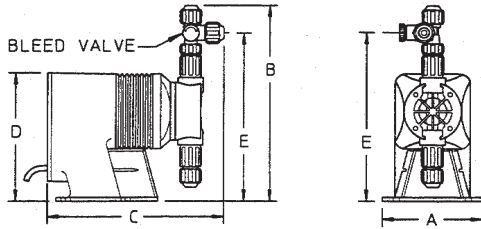


Liquid End Materials

| Series | Pump Head | Diaphragm | Check Valves | | Fittings | Bleed Valve | Injection Valve Assembly Foot Valve Assembly | Tubing |
|--------|---------------------------------------|------------------------------|----------------------------|--|----------------------|---|---|-----------------------|
| | | | Seats/O-Rings | Balls | | | | |
| D | GFPPL PVC SAN PVDF 316 SS | PTFE-faced Hypalon-backed | PTFE, Hypalon, Viton | Ceramic, PTFE, 316SS, Alloy C | GFPPL PVC PVDF | Same as fitting and check valve selected, except 316SS | Same as fitting and check valve selected | Clear PVC White PE |

Important: Material Code— GFPPL = Glass-filled Polypropylene, PVC = Polyvinyl Chloride, SAN = Styrene-Acrylonitrile, PE = Polyethylene, PVDF = Polyvinylidene Fluoride. Hypalon and Viton are registered trademarks of E.I. DuPont Company. PVC wetted end recommended for sodium hypochlorite.

Dimensions



| Series D Dimensions (inches) | | | | | | |
|------------------------------|-----|-----|-----|-----|-----|------------------------|
| Model No. | A | B | C | D | E | Shipping Weight (lbs.) |
| LF02 | 5.0 | 9.6 | 9.5 | 6.5 | 8.2 | 10 |
| LFC3 | 5.0 | 9.9 | 9.5 | 6.5 | 8.5 | 10 |
| LF03 | 5.0 | 9.9 | 9.5 | 6.5 | 8.5 | 10 |
| LF04 | 5.0 | 9.9 | 9.5 | 6.5 | 8.5 | 10 |
| LF64 | 5.0 | 9.9 | 9.5 | 6.5 | 8.5 | 10 |
| LFC4 | 5.0 | 9.9 | 9.5 | 6.5 | 8.5 | 10 |

Note: Inches x 2.54=cm

KOPkit®

Available for every model, the KOPkit provides an economically priced package of parts required for routine maintenance. The kit typically contains new valve cartridges with o-rings, head, diaphragm, secondary o-ring seal, head screws and washers.

For further KOPkit information, refer to Technical Sheet No. GB-045.



| | | |
|--------------------------------------|--------|--|
| Connections: | Tubing | 1/4" ID X 3/8" OD 3/8" ID X 1/2" OD 3/16" ID X 5/16" OD 1/4" FNPT |
| | Piping | |
| Reproducibility at max. capacity | | +/- 3% |
| Viscosity Max CPS | | 1000 |
| Stroke Frequency Max SPM | | 125 |
| Stroke Frequency Turn-Down Ratio | | 100:1 |
| Status Display | | 16-Position LCD Dot Matrix Backlight |
| Power Input | | 115 VAC/50-60 HZ/1 ph 230 VAC/50-60 HZ/1 ph |
| Average Current Draw @ 115 VAC: Amps | | 0.6 |
| @ 230 VAC: Amps | | 0.3 |
| Peak Input Power Watts | | 130 |
| Average Input Power @ max SPM: Watts | | 50 |



An ISO Certified Company



A Unit of IDEX Corporation

