

# PULSAtron®

## Series HV

## Electronic Metering Pumps



### Key Features

- **Automatic Control**, available with 4-20 mA DC direct or external pacing, with stop function.
- **Manual Control** by on-line adjustable stroke rate and stroke length.
- **Agency approved** for demanding **OUTDOOR** and indoor applications.
- **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.
- **Viscosities to 20,000 CPS**.

### Complete Economical Selection

Five distinct models are available, having pressure capabilities to 150 PSIG @ 24 GPD, and flow capacities to 240 GPD @ 80 PSIG, 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 HV 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 HV 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 PULSAtron Series HV pumps to handle viscous chemicals up to a viscosity of 20,000 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.

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 D & Series A PLUS refer to Technical Sheet No. EMP-022, EMP-023 & 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.

### System Compatibility

**A wide variety of chemicals can be pumped.**

Liquid end materials include PVC, PTFE and 316SS.

**Immediate installation and start-up.**

Included as standard accessories with all models are an injection/back pressure valve assembly and discharge and suction tubing.

**Quick and economical liquid end maintenance.**

Available for every model is a unique KOPkit®, a convenient, economically priced, package containing new cartridge check valves and other important spare parts.



technology  
innovation diversity  
excellence

# PULSAtron Series HV Specifications

## Pressure and Flow Rate Capacity

MODEL		LVB3	LVF4	LVG4	LVG5	LVH7
Capacity	GPH	0.50	1.00	2.00	4.00	10.00
nominal	GPD	12	24	48	96	240
(max.)	LPH	1.9	3.8	7.6	15.1	37.9
Pressure	PSIG	150	150	110	110	80
(max.)	BAR	10	10	7	7	5.6
Connections:	Tubing	(S) .50" I.D. x .75" O.D. (D) .38" I.D. x .50" O.D. (LVB3 & F4 only) (S & D) .50" I.D. x .75" O.D. (LVG4, G5 & H7 only)				
Reproducibility at max. capacity		+/- 2%				
Viscosity Max CPS		20,000 CPS				
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				
@ 230 VAC: Amps		0.5				
Peak Input Power Watts		300				
Average Input Power @ max SPM: Watts		130				

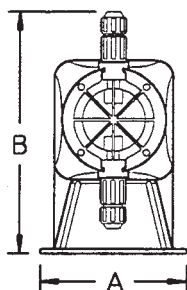
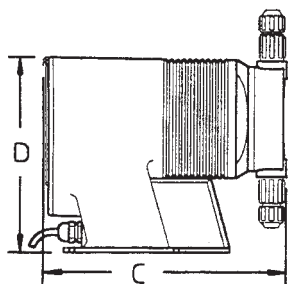
**Important:** Series HV - 5 model selections. Digit 1 and 2 (LV) signify product class, digit 3 and 4 signify pressure/flow. For full model selection information refer to Price Schedule EMP-PS LP.

## Liquid End Materials

Series	Pump Head	Diaphragm	Check Valves		Fittings	Injection Valve Assembly Foot Valve Assembly	Tubing
			Seats/O-Rings	Balls			
HV	PVC	PTFE-faced Hypalon-backed	PTFE	316SS PTFE	PVC	Same as fitting and check valve selected	Clear Braided PVC White PE

**Important:** Material Code— PVC = Polyvinyl Chloride. Hypalon and Viton are registered trademarks of E.I. DuPont Company.

## Dimensions



Series HV Dimensions (inches)					
Model No.	A	B	C	D	Shipping Weight
LVB3	5.4	9.3	9.5	7.5	13
LVF4	5.4	10.8	10.8	7.5	18
LVG4	5.4	9.5	10.6	7.5	18
LVG5	5.4	10.8	10.8	7.5	18
LVH7	6.1	11.5	11.0	8.2	25

NOTE: Inches X 2.54 = cm



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