

PULSAFEEDER[®]

Electronic Metering Pump

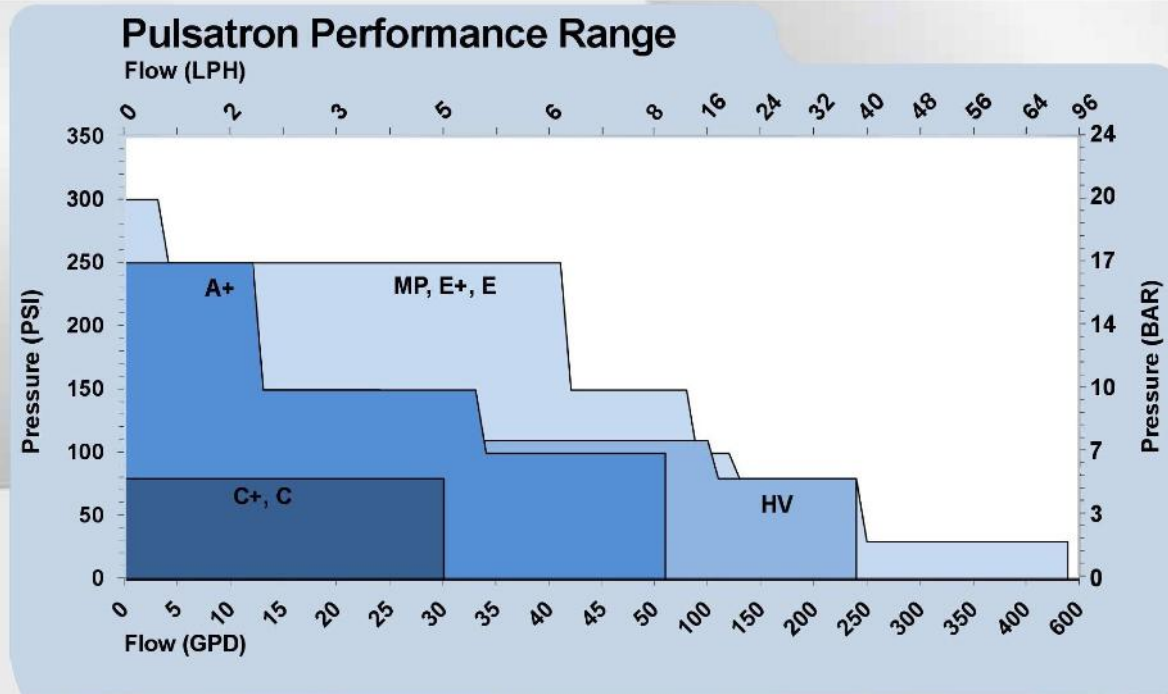


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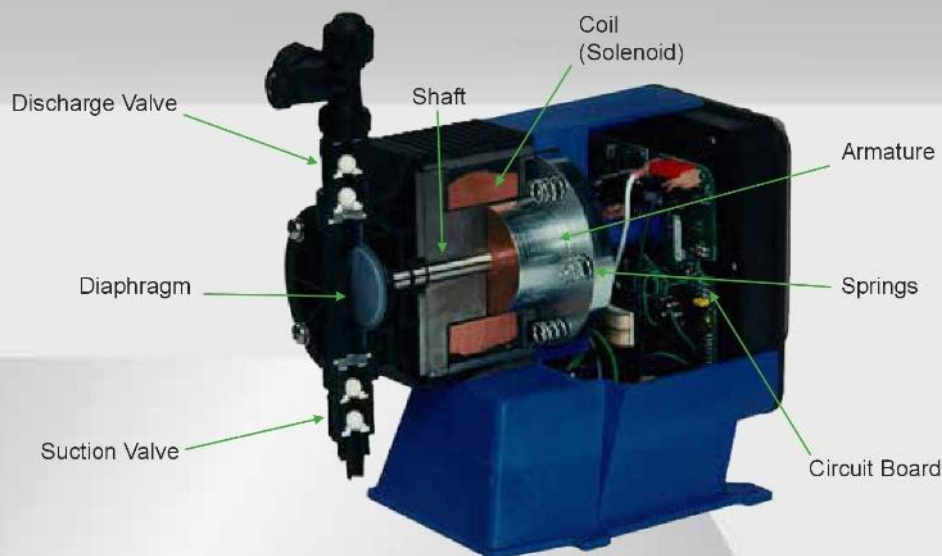
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PULSAtron[®]



Diaphragm Metering Pump Technology

The PULSAtron family are solenoid powered diaphragm metering pumps. The key element which differentiates these pumps from other types is the TFE lined elastomer diaphragm. This diaphragm is sealed against the reagent head forming a seal-less, leak free pumping chamber. The solenoid driver is connected to the diaphragm to create the pumping motion. As the diaphragm moves away from the face of the reagent head, it creates a vacuum which closes the discharge check valve and opens the suction check valve, drawing the pumped fluid into the pumping chamber. As the solenoid forces the diaphragm toward the face of the reagent head, the suction check valve closes and the discharge check valve opens allowing the liquid to flow out the discharge valve.



Features & Benefits



E Plus Series

- 100:1 turn down ratio
- Optional 4-20mA with stop function
- Optional external pacing with stop function
- Auto-Off-Manual selection switch with indicator lights
- Built in circuit protection with easy access panel mounted fuse
- Clear hinged cover over controls for water resistance



MP Series

- Automatic control, fully scalable 4-20mADC, 20-4mADC or external pacing
- Manual control allows for a combined 1000:1 turndown
- Flow verification option is available on select sizes
- 16 character LCD display and indicator lights
- Relay and stop outputs
- Simple prompts in plain language and programmable in four languages



HV Series

- Automatic control, available with 4-20mADC direct or external pacing, with stop function
- Manual control by on-line adjustable stroke rate & stroke length
- Viscosities to 20,000 CPS
- Auto-Off-Manual switch
- Highly reliable timing circuit



A Plus, C Plus, E Series

- 100:1 turn down ratio; 1000:1 on some models
- Water resistant for outdoor installation
- Manual control by on-line adjustable stroke length and stroke rate
- Optional external pacing with Auto/Manual switch on A Plus
- Internally dampened to reduce noise
- Optional: External pace, external stop or both



Premium Construction

- Few moving parts
- Optional wet-end materials
- High Viscosity handling
- Long life diaphragm
- Leak free design

Bleed Valve Assembly Standard

- Safe & easy priming
- Durable and leak free



Guided Ball Check Valve System

- Dual ball check with TFE seats
- Reduce back flow
- Outstanding priming characteristics

Highly Reliable Electronics

- Timing circuit
- Rated hot for continuous duty
- Thermal overload



Engineering Data

Pump Head Material Available:	GFPPPL PVC PVDF 316 SS
Diaphragm:	PTFE-faces CSPE-backed
Check Valves Materials Available:	
Seats/O-Rings:	PTFE CSPE Viton
Balls:	Ceramic PTFE 316 SS Alloy C

Fitting Materials Available:	GFPPPL PVC PVDF
Bleed Valve:	Same as fitting and check valve selected, except 316 SS
Injection Valve & Foot Valve Assy:	Same as fitting and check valve selected
Tabling:	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 registered trademark of E.I. DuPont Company. PVC watted and recommend for sodium hypo chlorite.

PULSAtron Series A Plus Specification 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 (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)							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			

PULSAtron Series E Plus Specification 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	64	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	100	100	100	50	35	80	30
	BAR	21	17	10	17	10	7	7	17	10	7	17	10	7	10	7	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

Reproducibility:	+/- 2% at maximum capacity
Viscosity Max CPS:	
For viscosity up to 3000CPS, select connection size 3, 4, or 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
Popwer 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 watt
Average Input Power @Max SPM:	130 watt

PULSAtron Series C Plus Specification and Model Selection

MODEL		LD02	LD03	LD04	LD54
Capacity nominal (max.)	GPH	0.25	0.50	1.00	1.25
	GPD	6	12	24	30
	LPH	0.9	1.9	3.8	4.7z
Pressure (max.)	PSIG	80	80	80	80
	BAR	5.6	5.6	5.6	5.6
Connections	Tubing	1/4" ID x 3/8" OD 3/8" ID x 1/2" OD			
	Piping	1/4" FNPT			

PULSAtron Series E Specification and Model Selection

MODEL		LE12	LE02	LE33	LE13	LE33	LE34	LE14	LE14
Capacity nominal (max.)	GPH	0.21	0.25	0.50	0.50	0.50	0.90	1.00	1.85
	GPD	5	6	12	12	12	22	24	44
	LPH	0.8	0.9	1.9	1.9	1.9	3.4	3.8	7
Pressure (max.)	PSIG	250	150	250	150	100	150	100	100
	BAR	17	10	17	10	7	10	7	7
Connections	Tubing	1/4" ID x 3/8" OD 3/8" ID x 1/2" OD							
	Piping	1/4" FNPT							

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