PULSAtron® Series E PLUS

Electronic Metering Pumps

PULSAFEEDER®
A Unit of IDEX Corporation

Key Features

- ***Automatic Control,*** available with 4-20 mADC 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.
- ***Safe & Easy Priming*** with durable leak-free **bleed valve assembly** (standard).

Complete Economical Selection

Twenty distinct models are available, having pressure capabilities to 300 PSIG @ 3 GPD, and flow capacities to 500 GPD @ 20PSIG, with a turndown ratio of 100:1. Metering performance is reproducible to within ± 2% of maximum capacity.

Please refer to the reverse side for Series E PLUS 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 E PLUS 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 3000 CPS. For higher vicosity applications, larger, spring-loaded connections are available.

Leak-free, sealless, liquid end. Our diaphragms are of superior construction—teflon-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 refer to Technical Sheet No. EMP-027, 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.

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System Compatibility

A wide variety of chemicals can be pumped.
Liquid end materials include glass-filled polypropylene (GFPPL), PVC, styrene-acrylonitrile (SAN), Polyvinylidene Fluoride (PVDF), Teflon, 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 (*not avail. with high viscosity connections for >3000 CPS).

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 and ≤ 240 GPD).

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 E PLUS Specifications

Pressure and Flow Rate Capacity

MODEL		LPK2	LPB2	LPA2	LPD3	LPB3	LPA3	LPK3	LPF4	LPD4	LPB4	LPH4	LPG4	LPE4	LPK5	LPH5	LPG5	LPH6	LPK7	LPH7	LPH8
Capacity	GPD	3	5	6	11	12	12	14	20	21	24	40	42	44	60	75	94	120	190	240	500
nominal	GPH	0.13	0.2	0.25	0.45	0.5	0.5	0.58	0.83	0.87	1	1.66	1.75	1.83	2.5	3.17	3.91	5	8	10	20
(max.)	LPH	0.47	0.79	0.95	1.73	1.89	1.89	2.2	3.15	3.31	3.78	6.31	6.62	6.94	9.5	11.83	14.82	18.93	29.96	37.85	78.85
Pressure	PSIG	300	250	150	250	150	100	100	250	150	100	250	150	100	150	150	100	100	50	35	20
(max.)	BAR	21	17	10	17	10	7	7	17	10	7	17	10	7	10	10	7	7	3.3	2.4	1.3
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													3/8" ID X 1/2" OD 1/2" ID x 3/4" OD (LPH8 ONLY)						
	Piping														1/4" FNPT 1/2" FNPT						
Reproducibility at max. capacity		+/- 2%																			
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. 3000 - 10,000 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 @ 230 VAC: Amps		1.0 0.5																			
Peak Input Power Watts		300																			
Average Input Power @ max SPM: Watts		130																			

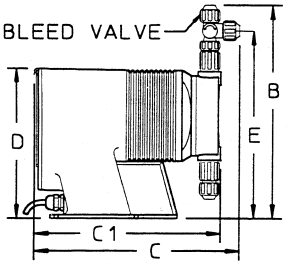
Important: Series E PLUS - 20 model selections. Digit 1 and 2 (LP) signify product class, digit 3 and 4 signify pressure/flow. For full model selection information refer to Price Schedule EMP-PS LP.

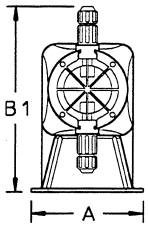
Liquid End Materials

Series	Pump Head	Diaphragm	Check Valves		Fittings	Bleed Valve	Injection Valve Assembly Foot Valve Assembly	Tubing
			Seats/O-Rings	Balls				
E PLUS	GFPPL PVC SAN PVDF 316 SS	Teflon-faced Hypalon-backed	Teflon, Hypalon, Viton	Ceramic, Teflon, 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. Teflon, Hypalon and Viton are registered trademarks of E.I. DuPont Company. PVC wetted end recommended for sodium hypochlorite.

Dimensions





Series E Plus Dimensions (inches)																		
Model No.	A	B	B1	C	C1	D	E	Shipping Weight	Model No.	A	B	B1	C	C1	D	E	Shipping Weight
LPA2	5.4	10.3	-	10.8	-	7.5	8.9	13	LPG5	5.4	10.9	-	11.7	-	7.5	9.5	18
LPA3	5.4	10.6	-	10.7	-	7.5	9.2	13	LPH4	6.2	10.9	-	11.2	-	8.2	9.5	21
LPB2	5.4	10.3	-	10.8	-	7.5	8.9	13	LPH5	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	-	11.2	-	8.2	9.9	21
LPB4	5.4	10.6	-	10.7	-	7.5	9.2	13	LPH7	6.1	11.7	-	11.2	-	8.2	10.3	21
LPD3	5.4	10.6	-	11.2	-	7.5	9.2	15	LPH8*	6.1	-	10.9	-	10.6	8.2	-	25
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

NOTE: Inches X 2.54 = cm
* the LPH8 is designed without a bleed valve available.

An ISO Certified Company

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IDEX CORPORATION

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