

PULSAFEEDER®

Metering Pumps and Control Systems



Product

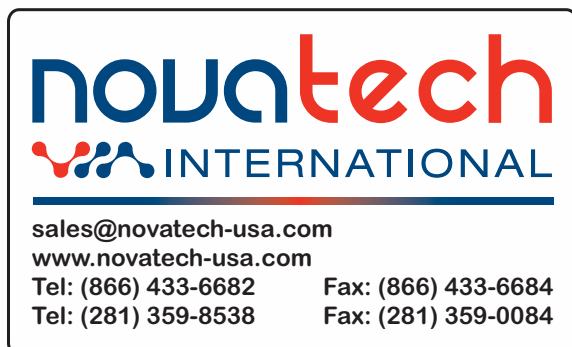
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IMPORTANT INFORMATION WHEN PLACING AN ORDER

1. Fax, mail or telephone orders directly to the Customer Service Department:



2. Please have the following information available when placing an order:

Account Name	Special Tags or Marks (if needed)
Billing Zip Code	Item(s) Being Ordered
Purchase Order Number	Quantity of Each Item
Ship to Address	Pricing
Payment Terms	Shipping Information
3. Orders are entered upon receipt. Our ability to change in house orders is limited. Please be certain your orders are complete when placed. Any order cancellation or change request is subject to a cancellation fee.
4. Orders are assigned standard lead times based on the size of the order and product mix.
Orders requiring expedited shipping (sooner than the standard lead times) may be subject to a \$50 expedite charge. Unless the order clearly requests expedited shipping, the order will be treated as a routine order. When expedited shipping is requested, a designated carrier must be selected. Orders that need to ship the same day must be received by **12:00 PM EST**. Same day and next working day shipping is generally available for larger orders, please verify with customer service. Pulsafeeder shall have no liability if it is unable to provide expedited shipping of an order.
5. Repairs and returns are coordinated through our Customer Service Department. All orders returned must have factory authorization, and are subject to a 25% restocking charge for standard product.
6. Other Important Information:
 - Prices are subject to change without notice, and are effective when order is accepted, and acknowledged at point of shipment.
 - When ordering, specify your P.O. number, model number, quantity, price, shipping and/or billing address and order date.
 - **Standard terms are NET 30 days from date of invoice for approved accounts on open account.**
 - **WE ACCEPT VISA, MASTERCARD, AMERICAN EXPRESS and DISCOVER CARD.**
 - All prices are EXW, Shippers Dock, Punta Gorda, FL or Kingwood, Texas location.
 - Custom product sales are final.
 - Charges for export documentation may apply. Fees vary by requirements.
 - Expedite fees may apply. **Orders requiring expedited shipping (sooner than the standard lead times) may be subject to an expedite charge**
 - Fees for changes to or cancellation of orders may apply

PULSAtron®

Feature Selection Guide

Pulsafeeder offers one of the most flexible electronic metering pumps in the world. The product can be configured to meet a large variety of applications and needs. The next few pages will guide you in structuring a complete and correct model number. The first step in selecting the right model for your application is to select the correct Series. Each Series offers a variety of features that distinguish it from other Series. Within each Series are selections of models that offer different flow/pressure envelopes to choose from.

The following descriptions will help you understand the different features and then the chart at the bottom of the page will let you select the appropriate models that have the features you need.

4-20mA	Control the pump stroke frequency based on a current input signal from an external device. At 4mA input, the pump will not stroke. At 20mA input, the pump will stroke 100%
20-4mA	Same as 4-20 except that at 20mA input, the pump will not stroke and at 4mA input, the pump strokes at 100%
External Pace / Water Meter	Allows the pump stroke to be controlled by an external dry contact closure, such as is provided by a Water Meter. For each closure, the pump will stroke one time. Some models provide the ability to multiply or divide the pulses.
Stop Function	A dry contact input that will stop the pump on closure and allow the pump to operate when open.
Touch Pad	Electronic 'touch pad' control with internationally recognized symbols.
Digital Display	Pump parameters are displayed on an LCD or LED type display.
Signal Relay	Provides a 24V DC signal output from the pump based on user specified conditions.
Power Relay	Provides AC power output from the pump based on user specified conditions.
Alarm Display	Flashing display or LED indicator that will display an alarm condition on the front panel of the pump.
Timed Sequences	Ability to pre-program operation for repetitive metering.
Programmable Timer	Timer that can be programmed with up to 8 on/off cycles per day during a 7-day week.
Hall Effect	Hall Effect Water Meter input.
Bleed Relay	Separate relay used to control a solenoid that will "Bleed" a cooling tower as part of a control system.
Timer Control	User defined timer functions that control when the pump will operate. Used in Cooling Tower control systems.
Flow Control	Optional Flow Switch turns pump on when flow is active.

Series	Flow Capacity		Pressure		Turn Down Ratio	4-20 mA	20-4 mA	External Pace And Stop Function	External Pace Or Stop Function	Touch Pad	Digital Display	Signal/Power Relay	Alarm Signals	Timed Sequences	Programmable Timer
	GPH	LPH	PSIG	BAR											
MP	0.13 to 21	0.50 to 79.5	20 to 300	1.3 to 21	1000:1	S	S	S		S	S	S	S	S	
E Plus	0.13 to 25	0.50 to 94.6	30 to 300	2.0 to 21	100:1	O		O				S			
HV	0.50 to 10	1.9 to 37.9	80 to 100	5.6 to 17	100:1	O									
E	0.21 to 1.85	0.80 to 7.0	100 to 250	7 to 17	100:1										
E-DC	0.25 to 1.85	0.90 to 7.0	100 to 150	7 to 10	100:1										
A Plus	0.25 to 2	0.90 to 7.6	50 to 250	3.3 to 17	100:1			O	O						
T7	0.50 to 2	1.9 to 7.6	100	7	10:1										S
C Plus	0.25 to 1.25	0.90 to 4.7	80	5.6	100:1				O						
C	0.25 to 1.25	0.90 to 4.7	80	5.6	10:1				O						

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Model Selection Guide

Once you have selected the appropriate Series, you must configure the model so that it is built with the features you desire. The Configuration Guide associated with each Series will present the most popular selections. Select one code from each category to build up a complete model string.

To help you better understand the model string, in the following pages, we will explain what each of the digits represent and provide you some additional charts to help you select options not found in the Configuration Guides.

Series Code Designator	
Series MP	M
Series E Plus	P
Series HV	V
Series E	E
Series E-DC	S
Series A Plus	B
Series C Plus	D
Series C & T7	C

Model Selection:

The first four digits represent the Series and Flow/Pressure Selection.

LB02
↑↑ Series

The first digit will always start with the letter 'L'.

All PULSAtron models begin with this letter. The second letter designates the Series (e.g. Series MP, Series E+, Series A+, etc.). Each series has a different set of features that are available in terms of control and flow/pressure capacity. The next two digits represent the flow/pressure capacity of the pump.

LB02
↑ Flow/Pressure Code

Digits 3 & 4 represent the Flow/Pressure Code.

This code represents the specific flow/pressure rating for the model and can be found in the specification for each Series.

LB02SA
↑↑ Electrical Controls

Digits 5 & 6 represent the Controls and Electrical selections.

These selections are explained for each model in the Configuration Guide.



Selection Guide cont'd

Selecting the Wet-End Code & Connection Type:

Digits 7-10 in the string represent the wet-end code. It is the group of four digits set apart by the dash lines.

LB02SA-PTC1

These four digits represent your wet-end code and connection type.

The four digits in the wet-end code represent the Head Material, Seats & O-Rings, Ball Material and Connection type. Using the above example, the code breaks down as follows:

P - Head Material, including fittings. In this example, the P represents GFPPL.

T - Seat & O-Ring Material. In this example, the T represents TFE.

C - Types of Balls used in the valves. In this example, the C represents Ceramic.

1 - Connection type. In this example, the 1 represents tubing connections for 3/8" OD tubing.

In the configuration Guide, we have listed the most popular Wet-End codes. If you don't find the materials or connection selection to meet your needs, refer to the following selection guides to configure the proper Wet-End Code.

Selecting the Wet-End Code:

The wet-end code represents the materials of construction that will be in contact with the chemical you are pumping. It is critical that the materials selected are compatible. If you do not find the wet-end code to meet your application in the configuration guides, you can use the Wet-End Code Selection Guide to determine the correct Head Material, Seats & O-Rings and Balls. If you do not know what materials are compatible with the chemicals you are pumping, refer to the chemical compatibility chart below. We have identified the proper wet-end code for the chemicals in the list. If your chemical is not found in the list, please contact your chemical supplier or visit www.pulsatron.com for a complete listing.

PULSAtron Wet-End Code Selection Guide

Head & Fittings

- A = 316 Stainless Steel (All models except H8)
- K = PVDF (Kynar) (Consult factory for J7, H8 models)
- P = GFPPL (Polypropylene)
- V = PVC (Poly Vinyl Chloride) (for models rated < 150 psi excluding J7, K7, H7, H8)
- W = PVC (for models > 150 psi and J7, K7, H7, H8)

Seats

- H = CSPE
- T = TFE (not available with TFE ball over 150 psi)
- V = Viton (150 psi max.)

Balls

- C = Ceramic
- H = Alloy C (Hastelloy)
- S = 316 Stainless Steel
- T = TFE (not available with TFE seat over 150 psi)

Chemical Compatibility Chart

Chemical	Liquid End Code
ACETIC ACID, 5 - 10%	PHC
ALUMINUM SULFATE	VHC
AMMONIA, 10%	PHC
BROMINE	KTC
CALCIUM HYPOCHLORITE	VVC
CITRIC ACID, 10 - 20%	PHC
DEAE - Steamline Treatment	ATS
ETHYLENE GLYCOL	PTC
FERRIC CHLORIDE	VTC
FERRIC SULFATE	PTC
FLUOSILICIC ACID	PTT
HYDROCHLORIC ACID, 0 - 37%	PTC
HYDROCHLORIC ACID, 37 - 100%	KTT
HYDROFLUOSILICIC ACID, 20%	PTT
HYDROGEN PEROXIDE, 0 - 30%	VVC
LACTIC ACID	PTC
NITRIC ACID, 0 - 20%	PVC
PHOSPHORIC ACID, 0 - 100%	KTC
POTASSIUM CHLORIDE	PTC
POTASSIUM PERMANGANATE	PTC
SODIUM BI-CARBONATE	PTC
SODIUM BI-SULFATE	PTC
SODIUM BI-SULFITE	PTC
SODIUM CARBONATE	PTC
SODIUM HYDROXIDE, 0 - 50%	PHC
SODIUM HYPOCHLORITE	VVC
SODIUM NITRATE	PTC
SODIUM SILICATE	PHC
SODIUM SULFATE	PHC
SODIUM SULFIDE	PHC
SULFURIC ACID, 0 - 10%	PTC
SULFURIC ACID, 10 - 75%	PTC
SULFURIC ACID, 95 - 100%	KTC

CSPE is generic formulation of Hypalon, a registered trademark of E.I. DuPont Co.
Viton is a registered trademark of E.I. DuPont Company.

This is an abbreviated version using most common chemicals. Refer to the Chemical Resistance Guide (EMP-030) for a more detailed listing.

Selecting the Connection Code:

Selecting the proper connection code is probably the most difficult part of choosing a PULSAtron pump. Because of the flexibility built into this product line to meet a large variety of applications, the connection codes are determined by a lot more factors than just the size of the tubing. Connection code is probably the wrong name for this selection because you are selecting more than just the tubing size. This code also determines the type of valves used in the pump. The valve type is determined by factors such as flow rate of the pump, ball type selected and viscosity of the fluid you will be pumping.

Flow Rate:

The pump you select is rated to pump a certain number of gallons per hour (GPH). When selecting the connection code, please note the GPH limitations and select a connection that fits within the parameters of the pump model that you selected.

Ball Type:

If the material selected for the balls used in the check valves is TFE, you will probably need to use a spring-loaded connection. This is due to the fact that the weight of the balls will not allow them to seat properly without the spring. See the connection chart for a list of spring loaded connection types.

Viscosity:

Viscosity of the fluid you are pumping impacts the connection. The higher viscosity fluids (>3000 cps) require larger connection types and spring-loaded valves. Medium viscosity fluids (1000 to 3000 cps) can be pumped without the spring-loaded valves but you must **use SS balls with these connections in order for the balls to seat properly in the valve.**

Degassing Head:

The degassing head assembly is the solution to pumping gas producing chemicals such as hydrogen peroxide or high strength sodium hypochlorite. The unique de-gas valve system is designed to allow air to be vented from the pump head while minimizing the return fluid volume. It also prevents the pump from losing its prime due to gas build up. The degassing head will be available on all PULSAtron pumps with volumes <44GPD & pressures <150PSI. This feature is only available with the wet-end codes VVC9, VHC9, and VTC9.

Connection Codes

Code	Connect Type	Suction	Discharge	Spring	GPH Flow Limitations-125 SPM	GPH Flow Limitations-250 SPM	Viscosity	Other Factors
2	Piping	.25" FNPT	.25" FNPT		0 - 1.88	0-3.76	1000 up to 3000 cps w/ SS balls	No Bleed Valve
4	Piping	.25" FNPT	.25" FNPT		1.63 - 10	3.26-20	1000 up to 3000 cps w/ SS balls	No Bleed Valve
6	Piping	.25" FNPT	.25" FNPT	Yes	Up to 10	NA	less than 10,000 cps	No Bleed Valve
8	Piping	.50" FNPT	.50" FNPT	Yes	Up to 25	NA	less than 10,000 cps	No Bleed Valve
C	Piping	.50" FNPT	.50" FNPT		25	50	1000 up to 3000 cps w/ SS balls	No Bleed Valve
G	Piping	.25" FNPT	.25" FNPT	Yes	0 - 1.88	0-3.76	1000 up to 3000 cps w/ SS balls	No Bleed Valve
I	Piping	.50" MNPT	.50" MNPT	Yes	Up to 10	NA	less than 10,000 cps	No Bleed Valve
L	Piping	.50" MNPT	.50" MNPT		0 - 1.88	0-3.76	1000 up to 3000 cps w/ SS balls	No Bleed Valve
X	Piping	.50" MNPT	.50" MNPT		1.63 - 10	3.26-20	1000 up to 3000 cps w/ SS balls	No Bleed Valve
1	Tubing	.25" x .38"	.25" x .38"		0 - 1.88	0-3.76	1000 up to 3000 cps w/ SS balls	
3	Tubing	.38" x .50"	.38" x .50"		1.63 - 10	3.26-20	1000 up to 3000 cps w/ SS balls	
5	Tubing	.50" x .75"	.38" x .50"	Yes	Up to 10	NA	less than 10,000 cps	
7	Tubing	.50" x .75"	.50" FNPT	Yes	Up to 25	NA	less than 10,000 cps	No Bleed Valve
9	Tubing	.25" x .38"	.25" x .38"	Yes	0 - 1.88	0-3.76	1000 up to 3000 cps w/ SS balls	Degas Head/No Bleed Valve
A	Tubing	.38" x .50"	.38" x .50"		0 - 1.88	0-3.76	1000 up to 3000 cps w/ SS balls	
B	Tubing	.50" x .75"	.50" x .75"		25	50	1000 up to 3000 cps w/ SS balls	No Bleed Valve
D	Tubing	.25" x .38"	.25" x .38"	Yes	0 - 1.88	0-3.76	1000 up to 3000 cps w/ SS balls	
E	Tubing	.38" x .50"	.38" x .50"	Yes	0 - 1.88	0-3.76	1000 up to 3000 cps w/ SS balls	
F	Tubing	.38" x .50"	.38" x .50"	Yes	1.63 - 10	3.26-20	1000 up to 3000 cps w/ SS balls	Not Available In PVDF
H	Tubing	.25" x .38"	.25" x .38"		1.63 - 10	3.26-20	1000 up to 3000 cps w/ SS balls	
J	Tubing	.25" x .38"	.25" x .38"		0 - 1.04	0-2.08	1000 up to 3000 cps w/ SS balls	
K	Tubing	.50" x .75"	.50" x .75"	Yes	1.88 - 25 (<50 psi)	NA	less than 10,000 cps	No Bleed Valve
Metric Connections					LPH Flow Limitations	LPH Flow Limitations		
M	Piping	G 1/2 A	G 1/2 A		6.15 - 37.85	12.3-75.7	1000 up to 3000 cps w/ SS balls	
R	Piping	G 1/2 A	G 1/2 A		0 - 7.10	0-14.2	1000 up to 3000 cps w/ SS balls	
P	Tubing	4 x 6 mm	4 x 6 mm		0 - 3.94	0-7.88	1000 up to 3000 cps w/ SS balls	
S	Tubing	6 x 8 mm	6 x 8 mm		> 18.93	> 37.86	1000 up to 3000 cps w/ SS balls	
T	Tubing	6 x 8 mm	6 x 8 mm		0 - 7.10	0-14.2	1000 up to 3000 cps w/ SS balls	Degas Head/No Bleed Valve
U	Tubing	6 x 8 mm	6 x 8 mm		0 - 7.10	0-14.2	1000 up to 3000 cps w/ SS balls	
V	Tubing	12 x 19 mm	12 x 19 mm		> 29.96	>59.92	1000 up to 3000 cps w/ SS balls	No Bleed Valve
W	Tubing	8 x 12 mm	8 x 12 mm		3.94 - 37.85	7.88-75.7	1000 up to 3000 cps w/ SS balls	
Y	Tubing	9 x 12 mm	9 x 12 mm		0 - 7.10	0-14.2	1000 up to 3000 cps w/ SS balls	

- Pumps ranging from 0.25 gph (0.9 lph) to 0.90 gph (3.4 lph) with the stainless steel ball option ("S" in the 9th digit of the model number) must select a connection code with a spring.
- Pumps less than or equal to .25 gph (0.9 lph) require a connection code with a spring and must use a ceramic ball in place of stainless steel.
- Stainless steel head assemblies are only available in piping connections.



Selection Guide cont'd

Suffix Codes:

LB02SA-PTC1-XXX

← Suffix Code

The last three digits of the model string are referred to as the Suffix Code. It is through the suffix code that the pump can be customized with optional features or customer specific features, e.g. private labeling. If your company has specific features that will be ordered on every pump, contact customer service with a description of what you want customized. We will then assign a unique suffix code that can be used as the last three digits in the model string when you place an order.

Standard Suffix Code Descriptions:

On the following pages are additional features that can be added to your PULSAtron pump through the use of the Suffix Code. Anytime you order a pump with one of these codes, it will be configured with that option.

CZ_ _ _XXX = CE Approval

This suffix code tells us that you require CE Approval on the pump you are ordering. This suffix code is seven to nine digits and can be used in conjunction with other suffix codes by replacing the XXX after the CZ _ _ _ with another suffix code. For instance, if you require CE Approval and a Five Function Valve, the suffix code would be CZUK500.

130 = PVDF Tubing

This suffix code will replace the standard pump tubing with PVDF Tubing.

500 = Five Function Valve

The five function valve is easily installed, no tools required. The valve operates with all PULSAtron models up to 240 GPD. The five function valve is packed with features that increase safety, enhance performance and generally improves the convenience of operation.

FEATURES

- Pressure Relief – Allows for relief of excessive pressure in discharge line to protect connections and tubing.
- Back Pressure – Maintains output reproducibility and allows metering into atmospheric discharge.
- Anti-Siphon – Prevents siphoning through the pump when point of injection is lower than the pump or into the suction line of another pump. Rated at total vacuum.
- Air Bleed – Used during priming to manually remove air from the pump head.
- Discharge Drain – Depressurize pump discharge line without loosening tubing or fittings. Protects the operator from chemical exposure.

SPECIFICATIONS

Material Of Construction:

Valve Body	Polyvinylidene Fluoride (PVDF)
Diaphragm	TFE faced CSPE
O-Rings	TFE
Hardware	18-8 Stainless Steel (Recessed)

Maximum Operating

Pressure: 250 PSI/17 BAR

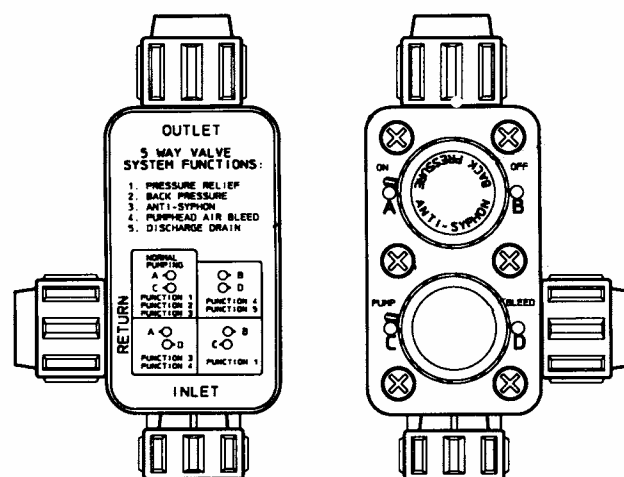
Maximum Flow: 10 GPH (37.85 LPH)

Maximum Viscosity: 1000 CPS

Pressure Relief

Settings:	275 PSI (17 BAR) - red
(nominal cracking pressure)	175 PSI (12 BAR) - green
	125 PSI (8.6 BAR) - blue
	50 PSI (2.8 BAR) - black (PVC only)

Note: Pressure relief will occur at no more than 50% above maximum rating of pump.



OPERATION

The functions are selected by setting two dual position selector knobs. The label on the back panel of the valve identifies each function with selector knob positions. The five function valve is compatible with most PULSAtron pumps. Connected to the existing discharge valve the five function valve is capable of handling a large output flow as well as viscous liquids. A return port located on the side body provides flow of chemical back to the solution tank when in the air bleed or drain discharge mode.

520 = DG/5FV Five Function Valve with De-Gas

With the DG/5FV you don't have to give up the accuracy and control of a solenoid metering pump in order to pump gaseous solutions.

Available in a variety of materials and popular sizes, the DG/5FV is ready to tackle most applications. Not only does the DG/5FV provide degassing, it is packed with features that increase safety, enhance performance and generally improves the convenience of operation.

FEATURES

- De-Gas – Bypass gasses and fluid during normal pump operation. Allows for the constant removal of gases that would otherwise “air bind” the pump.
- Back Pressure – Maintains output reproducibility and allows metering into atmospheric discharge.
- Anti-Siphon – Prevents siphoning through the pump when point of injection is lower than the pump or into the suction line of another pump. Rated at total vacuum.
- Air Bleed – Used during priming to manually remove air from the pump head.
- Discharge Drain – Depressurize pump discharge line without loosening tubing or fittings. Protects the operator from chemical exposure.

SPECIFICATIONS

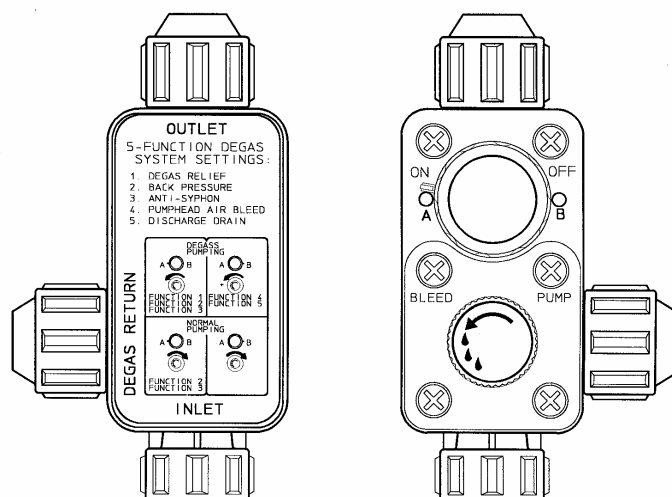
Material Of Construction:

Valve Body	Polyvinylidene Flouride (PVDF)
Diaphragm	TFE faced CSPE
O-Rings	TFE
Hardware	18-8 Stainless Steel (Recessed)
Maximum Flow:	10 GPH (37.85 LPH)
Maximum Viscosity:	1000 CPS
Max Pressure Ratings:	Up to 250 PSI (17 BAR)

Note: Degas/bypass volume is adjustable, typically 1-10% of pump output.

Connections:	1/4" (0.635 cm) Male NPT
	1/2" (1.27 cm) OD tubing
	3/8" (0.95 cm) OD tubing

All ports (input, output & bypass) on the selected valve will be the same



OPERATION

The functions are selected by setting two dual position selector knobs. The label on the back panel of the DG/5FV identifies each function with selector knob positions.

The DG/5FV is compatible with most PULSAtron pumps. Connected to the existing discharge valve the GG/5FV is capable of handling a large output flow as well as viscous liquids. A return port located on the side body provides flow of chemical back to the solution tank when in the degas, air bleed or drain discharge mode.

ITS = Integrated Tank System

The ITS System is a completely integrated tank system constructed of high density UV resistant polyethylene (PE) with a 15 gallon capacity. This tank system is translucent with 5 gallon increments and the tank's low level indicator allows visual monitoring of chemicals without opening the tank. The tight fitting child-proof lid keeps the chemical free of contaminants and protects the surrounding area from chemical fumes.

The ITS System also allows for easy access to the liquid end and control panel of the mounted pump.

A system consists of a chemical tank with lid and bulkhead fittings; a liquid level indicator float assembly; and feeder mounting hardware.

ITS Tank not available on LM, LP, If you require a different type or size tank, please refer to our accessory price book.



PULSAtron® Electronic Metering Pumps

Series MP

Key Features

- Automatic Control, Fully scalable 4-20mA current signal that can also be calibrated to precisely match the current signal reading of the sending device.
- Manual Control allows for a combined 1000:1 turndown resulting in accurate metering for critical applications.
- Flow Verification option is available on select sizes.
- Relay Output for computer interface or AC power allows for external control.
- Six-button Touch Pad Control with internationally recognized symbols for simplified programming.
- Simple Prompts in plain language allow for easy-to-understand instructions for programming. Available in three languages.
- Alarm Signals for signal loss, full count, circuit failure, pulse overflow and pulse rate high. Liquid low level indicator capability is standard.
- Timed Sequences can be set for selected intervals and rate for repetitive metering.
- Pulse Signals can be multiplied or divided by 1 to 999 allowing for pumps to handle peak requirements.
- LCD, 3 line backlit multi-lingual display allows for easy reading and user-friendly programming.
- Calibrated Flow Rate display with total volume pumped last day, month and since last reset.



Tested and Certified by WQA
against NSF/ANSI 61 & 372.



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



Intertek
9700150



Intertek
9700150



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.
Controls:	6-Station Membrane Switch
Status Display:	16-Position LCD Dot Matrix Backlight
LED Indicator Lights, Panel Mount:	Power On - Green Pulsing - Green Flashing Stop - Red
Stroke Frequency Max SPM:	125
External Stroke Frequency Control (Automatic):	4-20 mADC, 20-4 mADC External Pacing
Output Relay (Signal Level Option):	24 VDC, 10 mA
Output Relay (Power Option):	250 VAC, 50/60 HZ, 0.5A
Stroke Frequency Turn-Down Ratio:	100:1
Stroke Length Turn-Down Ratio:	10:1

Engineering Data

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

Pressure and Flow Rate Capacity

MODEL		LMK2	LMB2	LMA2	LMD3	LMB3	LMA3	LMK3	LMF4	LMD4	LMB4	LMH4	LMG4	LME4	LMK5	LMH5	LMH6	LMK7	LMH7	LMH8
Capacity	GPH	0.13	0.21	0.25	0.50	0.50	0.50	0.60	0.85	0.90	1.00	1.70	1.75	1.85	2.50	3.15	5.00	8.00	10.00	21.00
nominal	GPD	3	5	6	12	12	12	14	20	22	24	41	42	44	60	76	120	192	240	504
(max.)	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	7.0	9.5	11.9	18.9	30.3	37.9	79.5
Pressure	PSIG	300	250	150	250	150	100	100	250	150	100	250	150	100	150	150	100	50	35	20
(max.)	BAR	21	17	10	17	10	7	7	17	10	7	17	10	7	10	10	7	3.3	2.4	1.3
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) FLOW VERIFICATION (See Note)					
	Piping	1/4" FNPT													1/4" FNPT 1/2" FNPT					

Note: Flow Verification: Available on K3, B4 and E4 with connection code 1; H6, K7 and H7 with connection code H; 1/4" ID x 3/8" OD only.

PULSAtron Series MP Selection Guide

MODELS:	K2	= 0.13 gph / 3 gpd (0.5 lph) max pres.: 300 PSI (21 BAR)
	B2	= 0.21 gph / 5 gpd (0.8 lph) max pres.: 250 PSI (17 BAR)
	D3	= 0.50 gph / 12 gpd (1.9 lph) max pres.: 250 PSI (17 BAR)
	F4	= 0.85 gph / 20 gpd (3.2 lph) max pres.: 250 PSI (17 BAR)
	H4	= 1.70 gph / 41 gpd (6.4 lph) max pres.: 250 PSI (17 BAR)
	A2	= 0.25 gph / 6 gpd (0.9 lph) max pres.: 150 PSI (10 BAR)
	B3	= 0.50 gph / 12 gpd (1.9 lph) max pres.: 150 PSI (10 BAR)
	D4	= 0.90 gph / 22 gpd (3.4 lph) max pres.: 150 PSI (10 BAR)
	G4	= 1.75 gph / 42 gpd (6.6 lph) max pres.: 150 PSI (10 BAR)
	K5	= 2.50 gph / 60 gpd (9.5 lph) max pres.: 150 PSI (10 BAR)
	H5	= 3.15 gph / 76 gpd (11.9 lph) max pres.: 150 PSI (10 BAR)
	A3	= 0.50 gph / 12 gpd (1.9 lph) max pres.: 100 PSI (7 BAR)
	K3	= 0.60 gph / 14 gpd (2.3 lph) max pres.: 100 PSI (7 BAR)
	B4	= 1.00 gph / 24 gpd (3.8 lph) max pres.: 100 PSI (7 BAR)
	E4	= 1.85 gph / 44 gpd (7.0 lph) max pres.: 100 PSI (7 BAR)
	G5	= 4.00 gph / 96 gpd (15.1 lph) max pres.: 100 PSI (7 BAR)
	H6	= 5.00 gph / 120 gpd (18.9 lph) max pres.: 100 PSI (7 BAR)
	K7	= 8.00 gph / 192 gpd (30.3 lph) max pres.: 50 PSI (3.3 BAR)
	H7	= 10.0 gph / 240 gpd (37.9 lph) max pres.: 35 PSI (2.4 BAR)
	H8	= 21.0 gph / 504 gpd (79.5 lph) max pres.: 20 PSI (1.3 BAR)

CONTROLS:	T	= Signal Level Output Relay
	K	= Power Level Output Relay

ELECTRICAL:	A	= 115 Volt / 50-60Hz
	1	= 115 Volt / 50-60Hz (without agency approvals)
	B	= 230 Volt / 50-60Hz / 1ph with 6' (1.8m) 3-wire US Plug
	2	= 230 Volt / 50-60Hz (without agency approvals)

LIQUID END MATERIALS:	PTC	= GFPP / TFE / Ceramic
	KTC	= PVDF / TFE / Ceramic (not available on H8)
Pump Head & Fittings/Seats	VHC	= PVC / CSPE / Ceramic (not available on H7, H8, K7)
	VTC	= PVC / TFE / Ceramic (models <= 150 psi excluding H7, H8, K7)
& O-rings/Balls	WTC	= PVC / TFE / Ceramic (models > 150 psi and H7, H8, K7)
	VVC	= PVC / Viton / Ceramic (not available on H8)
	ATS	= 316 S.S. / TFE / 316 S.S. (must use FNPT piping connection) (not available on H8)

See page 6 for additional liquid end materials.

CONNECTION SIZES:	1	= Tubing .25" I.D. x .38" O.D. / .25" Ball, 0 - 1.88 GPH
	3	= Tubing .38" I.D. x .50" O.D. / .38" Ball, 1.63 - 10 GPH
	9	= Degas Head: .25" I.D. x .38" O.D. / 0-1.83 GPH
	J	= Tubing, .25" I.D. x .38" O.D. / .19 Ball; 0 - 1.04 GPH
METRIC:	M	= G 1/2 A Threads, .38" Ball, 6.15 - 37.85 LPH
	R	= G 1/2 A Threads, .25" Ball, 0 - 7.10 LPH
	Y	= 9 x 12mm, .25" Ball, 0 - 7.10 LPH

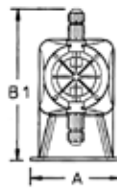
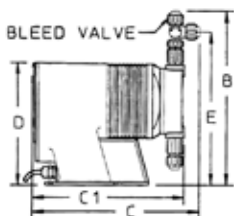
Please Refer to page 7 for additional connection sizes. All pumps with tubing connections come with the following items (except for LMH8, LPH8, HV Series pumps): 4' Suction, 4' Return, 8' discharge tubing, footvalve/strainer assy., injection valve and bleed valve.

SUFFIX CODES:	XXX	= No Additional Options
	130	= PVDF Tubing
	500	= Five Function Valve
	520	= Five Function Degas Valve
	FVE	= Flow Verification / EPDM (not available on pumps greater than 100 psi or H8 pump)
	FVV	= Flow Verification / Viton (not available on pumps greater than 100 psi or H8 pump)
	ITS	= 15 gal. ITS Tank System (ITS Tank not available on LM, LP, LT, and LE: H4, H5, H6, H7, H8, J7, K7 models)
	CZ_XXX	= CE Approval (CZXXX=Europe; CZUKXXX=UK; CZSUIXXX=Switzerland/Liechtenstein)

See pages 8 & 9 for additional information and specs.

A completed model number should look like 'LMB3TA-PTC1-XXX'

Dimensions



Series MP Dimensions (inches)																	
Model No.	A	B	B1	C	C1	D	E	Shpg Wt	Model No.	A	B	B1	C	C1	D	E	Shpg Wt
LMA2	5.4	10.3	-	10.8	-	7.5	8.9	13	LMH4	6.2	10.9	-	11.2	-	8.2	9.5	21
LMA3	5.4	10.6	-	10.7	-	7.5	9.2	13	LMH5	6.2	11.3	-	11.2	-	8.2	9.9	21
LMB2	5.4	10.3	-	10.8	-	7.5	8.9	13	LMH6	6.2	11.3	-	11.2	-	8.2	9.9	21
LMB3	5.4	10.6	-	10.7	-	7.5	9.2	13	LMH7	6.1	11.7	-	11.2	-	8.2	10.3	21
LMB4	5.4	10.6	-	10.7	-	7.5	9.2	13	LMH8*	6.1	-	10.9	-	10.6	8.2	-	25
LMD3	5.4	10.6	-	11.2	-	7.5	9.2	15	LMK2	5.4	10.3	-	10.8	-	7.5	8.9	13
LMD4	5.4	10.6	-	11.2	-	7.5	9.2	15	LMK3	5.4	10.6	-	10.7	-	7.5	9.2	13
LME4	5.4	10.6	-	11.2	-	7.5	9.2	15	LMK5	5.4	10.9	-	11.7	-	7.5	9.5	18
LMF4	5.4	10.6	-	11.7	-	7.5	9.2	18	LMK7	6.1	11.7	-	11.2	-	8.2	10.3	21
LMG4	5.4	10.6	-	11.7	-	7.5	9.2	18									

NOTE: Inches X 2.54 = cm / * the LMH8 is designed without a bleed valve available

PULSAtron® Electronic Metering Pumps

Series E PLUS

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.
- 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).



Tested and Certified by WQA
against NSF/ANSI 61 & 372.



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



Intertek
9700150



Intertek
9700150



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

Pressure and Flow Rate Capacity

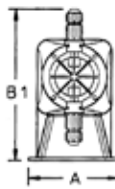
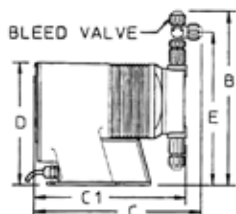
MODEL		LPK2	LPB2	LPA2	LPD3	LPB3	LPA3	LPK3	LPF4	LPD4	LPB4	LPH4	LPG4	LPE4	LPK5	LPH5	LPG5	LPH6	LPK7	LPH7	LPJ7	LPH8	
Capacity nominal (max.)	GPH	0.13	0.21	0.25	0.5	0.50	0.50	0.60	0.85	0.90	1.00	1.70	1.75	1.85	2.50	3.15	4	5.00	8.00	10.00	10.00	25.00	
	GPD	3	5	6	12	12	12	14	20	22	24	41	42	44	60	76	96	120	192	240	240	600	
	LPH	0.5	0.8	0.9	1.9	1.9	1.9	2.3	3.2	3.4	3.8	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	100	50	35	80	30	
	BAR	21	17	10	17	10	7	7	17	10	7	17	10	7	10	10	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									

PULSAtron Series E Plus Selection Guide

MODELS:		K2 = 0.13 gph / 3 gpd (0.5 lph) max pres.: 300 PSI (21 BAR) B2 = 0.21 gph / 5 gpd (0.8 lph) max pres.: 250 PSI (17 BAR) D3 = 0.50 gph / 12 gpd (1.9 lph) max pres.: 250 PSI (17 BAR) F4 = 0.85 gph / 20 gpd (3.2 lph) max pres.: 250 PSI (17 BAR) H4 = 1.70 gph / 41 gpd (6.4 lph) max pres.: 250 PSI (17 BAR) A2 = 0.25 gph / 6 gpd (0.9 lph) max pres.: 150 PSI (10 BAR) B3 = 0.50 gph / 12 gpd (1.9 lph) max pres.: 150 PSI (10 BAR) D4 = 0.90 gph / 22 gpd (3.4 lph) max pres.: 150 PSI (10 BAR) G4 = 1.75 gph / 42 gpd (6.6 lph) max pres.: 150 PSI (10 BAR) K5 = 2.50 gph / 60 gpd (9.5 lph) max pres.: 150 PSI (10 BAR) H5 = 3.15 gph / 76 gpd (11.9 lph) max pres.: 150 PSI (10 BAR) A3 = 0.50 gph / 12 gpd (1.9 lph) max pres.: 100 PSI (7 BAR) K3 = 0.60 gph / 14 gpd (2.3 lph) max pres.: 100 PSI (7 BAR) B4 = 1.00 gph / 24 gpd (3.8 lph) max pres.: 100 PSI (7 BAR) E4 = 1.85 gph / 44 gpd (7.0 lph) max pres.: 100 PSI (7 BAR) G5 = 4.00 gph / 96 gpd (15.1 lph) max pres.: 100 PSI (7 BAR) H6 = 5.00 gph / 120 gpd (18.9 lph) max pres.: 100 PSI (7 BAR) K7 = 8.00 gph / 192 gpd (30.3 lph) max pres.: 50 PSI (3.3 BAR) H7 = 10.0 gph / 240 gpd (37.9 lph) max pres.: 35 PSI (2.4 BAR) J7 = 10.0 gph / 240 gpd (37.9 lph) max pres.: 80 PSI (5.5 BAR) H8 = 25.0 gph / 600 gpd (94.6 lph) max pres.: 30 PSI (2 BAR)
CONTROLS:		S = Manual On/Off M = 4-20mADC Direct, w/ Stop E = External/Remote Pacing, w/ Stop
ELECTRICAL:		A = 115 Volt / 50-60Hz 1 = 115 Volt / 50-60Hz (without agency approvals) B = 230 Volt / 50-60Hz / 1ph with 6' (1.8m) 3-wire US Plug 2 = 230 Volt / 50-60Hz (without agency approvals)
LIQUID END MATERIALS: Pump Head & Fittings/Seats & O-rings/Balls		PTC = GFPP / TFE / Ceramic PTT = GFPP / TFE / TFE KTC = PVDF / TFE / Ceramic (not available on H8) VHC = PVC / CSPE / Ceramic (not available on H7, H8, J7, K7) VTC = PVC / TFE / Ceramic (models <= 150 psi excluding H7, H8, J7, K7) WTC = PVC / TFE / Ceramic (models > 150 psi and H7, H8, J7, K7) ATS = 316 S.S. / TFE / 316 S.S. (must use FNPT piping connection) (not available on H8)
See page 6 for additional liquid end materials.		
CONNECTION SIZES:		1 = Tubing .25" I.D. x .38" O.D. / .25" Ball, 0 - 1.88 GPH 3 = Tubing .38" I.D. x .50" O.D. / .38" Ball, 1.63 - 10 GPH 4 = Piping .25" FNPT / .38" Ball, 1.63 - 10 GPH B = Tubing .50" I.D. x .75" O.D. / .50" Ball, 25 GPH only METRIC: M = G 1/2 A Threads, .38" Ball, 6.15 - 37.85 LPH R = G 1/2 A Threads, .25" Ball, 0 - 7.10 LPH Y = 9 x 12mm, .25" Ball, 0 - 7.10 LPH
Please Refer to page 7 for additional connection sizes. All pumps with tubing connections come with the following items (except for LMH8, LPH8, HV Series pumps): 4' Suction, 4' Return, 8' discharge tubing, footvalve/strainer assy., injection valve and bleed valve.		
SUFFIX CODES:		XXX = No Additional Options 130 = PVDF Tubing 500 = Five Function Valve 520 = Five Function Degas Valve ITS = 15 gal. ITS Tank System (ITS Tank not available on LM, LP, LT, and LE: H4, H5, H6, H7, H8, J7, K7 models) CZ XXX = CE Approval (CZXXX=Europe; CZUKXXX=UK; CZSUIXXX=Switzerland/Liechtenstein)
See pages 8 & 9 for additional information and specs.		

A completed model number should look like 'LPB3SA-PTC1-XXX'

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	10.0	-	10.7	-	-	-	21

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

PULSAtron® Electronic Metering Pumps

Series HV

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.
- Viscosities to 20,000 CPS.



Tested and Certified by WQA
against NSF/ANSI 61 & 372.



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

Intertek
9700150

Intertek
9700150

Engineering Data

Reproducibility:	+/- 2% at maximum capacity
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 Amps
@ 230 VAC; Amps:	0.5 Amps
Peak Input Power:	300 Watts
Average Input Power @ Max SPM:	130 Watts

Pressure and Flow Rate Capacity

MODEL		LVB3	LVF4	LVG4	LVG5	LVH7
Capacity nominal (max.)	GPH	0.50	1.00	2.00	4.00	10.00
	GPD	12	24	48	96	240
	LPH	1.9	3.8	7.6	15.1	37.9
Pressure (max.)	PSIG	150	150	110	110	80
	BAR	10	10	7	7	5.6
Connections	Tubing	(S) .50" I.D. X .75" O.D. .38" I.D. X .50" OD (LVB3 & F4 only)				
		(S & D) .50" I.D. X .75" O.D. (LVG4,G5 & H7 only)				

PULSAtron Series HV Selection Guide

MODELS:	B3	= 0.50 gph / 12 gpd (1.9 lph) max pres.: 150 PSI (10 BAR)
	F4	= 1.00 gph / 24 gpd (3.8 lph) max pres.: 150 PSI (10 BAR)
	G4	= 2.00 gph / 48 gpd (7.6 lph) max pres.: 110 PSI (7 BAR)
	G5	= 4.00 gph / 96 gpd (15.1 lph) max pres.: 110 PSI (7 BAR)
	H7	= 10.0 gph / 240 gpd (37.9 lph) max pres.: 80 PSI (5.6 BAR)

CONTROLS:	S	= Manual On/Off
	M	= 4-20mADC Direct, w/ Stop
	E	= External/Remote Pacing, w/ Stop

ELECTRICAL:	A	= 115 Volt / 50-60Hz
	1	= 115 Volt / 50-60Hz (without agency approvals)
	B	= 230 Volt / 50-60Hz / 1ph with 6' (1.8m) 3-wire US Plug
	2	= 230 Volt / 50-60Hz (without agency approvals)

LIQUID END MATERIALS:	PTT	= GFPL / TFE / TFE - LVB3 & F4 only
	PTS	= GFPL / TFE / 316 SS - LVG4, G5 & H7 only
Pump Head & Fittings/Seats & O-rings/Balls	WTS	= PVC / TFE / 316 SS - LVH7 only
	VTT	= PVC / TFE / TFE - LVB3 & F4 only
	VTS	= PVC / TFE / 316 SS - LVG5 & G4
		No other liquid end materials available.

CONNECTION SIZES:	5	= Tubing (S) .50" I.D. x .75" O.D. / .38" I.D. x .50" O.D. - LVB3 & F4 only
	K	= Tubing .50" I.D. x .75" O.D. - LVG4, G5 & H7 only

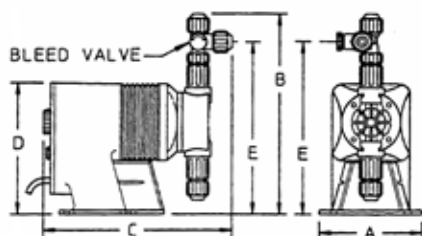
No other connection sizes available. Pumps come with 4' suction tubing and 8' discharge tubing. No bleed valve available.

SUFFIX CODES	XXX	= No Additional Options
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See pages 8 & 9 for additional information and specs.

A completed model number should look like 'LVB3SA-VTT5-XXX'

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	8.2	25

NOTE: Inches X 2.54 = cm

PULSatron® Electronic Metering Pumps

Series E

Key Features

- Manual Control by on-line adjustable stroke rate and stroke length.
- Agency approved for demanding OUTDOOR and indoor applications.
- Highly Reliable timing circuit.
- 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.
- Premium Standard Wetted Component Materials.
- Few Moving Parts and Wall Mountable.
- Safe & Easy Priming with durable leak-free bleed valve assembly (standard).



Tested and Certified by WQA
against NSF/ANSI 61 & 372.



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

Engineering Data

Reproducibility:	+/- 3% 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

Pressure and Flow Rate Capacity

MODEL		LE12	LE02	LE33	LE13	LE03	LE34	LE14	LE44
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							

PULSAtron Series E Selection Guide

MODELS:	12	= 0.21 gph / 5 gpd (0.8 lph) max pres.: 250 PSI (17 BAR)
	33	= 0.50 gph / 12 gpd (1.9 lph) max pres.: 250 PSI (17 BAR)
	02	= 0.25 gph / 6 gpd (0.9 lph) max pres.: 150 PSI (10 BAR)
	13	= 0.50 gph / 12 gpd (1.9 lph) max pres.: 150 PSI (10 BAR)
	34	= 0.90 gph / 22 gpd (3.4 lph) max pres.: 150 PSI (10 BAR)
	03	= 0.50 gph / 12 gpd (1.9 lph) max pres.: 100 PSI (7 BAR)
	14	= 1.00 gph / 24 gpd (3.8 lph) max pres.: 100 PSI (7 BAR)
	44	= 1.85 gph / 44 gpd (7.0 lph) max pres.: 100 PSI (7 BAR)

CONTROLS: **S** = No Options Available

ELECTRICAL:	A	= 115 Volt / 50-60Hz
	1	= 115 Volt / 50-60Hz (without agency approvals)
	B	= 230 Volt / 50-60Hz / 1ph with 6' (1.8m) 3-wire US Plug
	2	= 230 Volt / 50-60Hz (without agency approvals)

LIQUID END MATERIALS: Pump Head & Fittings/Seats & O-rings/Balls	PHC	= GFPL / CSPE / Ceramic
	PTC	= GFPL / TFE / Ceramic
	KTC	= PVDF / TFE / Ceramic (not available on J7 or H8)
	VHC	= PVC / CSPE / Ceramic (not available on H7, H8, J7, K7)
	VTC	= PVC / TFE / Ceramic (models <= 150 psi excluding H7, H8, J7, K7)
	WTC	= PVC / TFE / Ceramic (models > 150 psi and H7, H8, J7, K7)
	ATS	= 316 S.S. / TFE / 316 S.S. (must use FNPT piping connection) (not available on J7 or H8)

See page 6 for additional liquid end materials.

CONNECTION SIZES:	1	= Tubing .25" I.D. x .38" O.D. / .25" Ball, 0 - 1.88 GPH
	3	= Tubing .38" I.D. x .50" O.D. / .38" Ball, 1.63 - 10 GPH
	METRIC:	
	M	= G 1/2 A Threads, .38" Ball, 6.15 - 37.85 LPH
	P	= 4 x 6mm, .25" Ball, 0 - 3.94 LPH

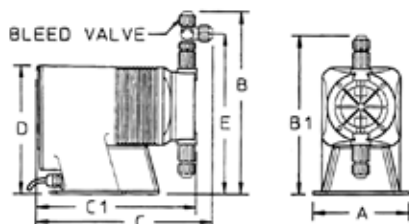
Please Refer to page 7 for additional connection sizes. All pumps with tubing connections come with the following items (except for LMH8, LPH8, HV SAeries pumps): 4' Suction, 4' Return, 8' discharge tubing, footvalve/strainer assy., injection valve and bleed valve.

SUFFIX CODES:	XXX	= No Additional Options
	130	= PVDF Tubing
	500	= Five Function Valve
	520	= Five Function Degas Valve
	ITS	= 15 gal. ITS Tank System (ITS Tank not available on LM, LP, LT, and LE: H4, H5, H6, H7, H8, J7, K7 models)
	CZ XXX	= CE Approval (CZXXX=Europe; CZUKXXX=UK; CZSUIXXX=Switzerland/Liechtenstein)

See pages 8 & 9 for additional information and specs.

A completed model number should look like 'LE33SA-PTC1-XXX'

Dimensions



Series E Dimensions (inches)								
Model No.	A	B	B1	C	C1	D	E	Shipping Weight
LE02	5	9.6	-	9.5	-	6.4	8.2	7
LE03	5	9.8	-	9.5	-	6.4	8.4	7
LE12	5	9.6	-	9.5	-	6.4	8.2	7
LE13	5	9.8	-	9.5	-	6.4	8.4	7
LE14	5	9.8	-	9.5	-	6.4	8.4	7
LE33	5.4	10.6	-	11.2	-	7.5	9.2	12
LE34	5.4	10.6	-	11.2	-	7.5	9.2	12
LE44	5.4	10.6	-	11.2	-	7.5	9.2	12

NOTE: Inches X 2.54 = cm

PULSAtron® Electronic Metering Pumps

Series E-DC Key Features

- Manual Control by on-line adjustable stroke rate and stroke length.
- Agency approved for demanding OUTDOOR and indoor applications.
- Highly Reliable timing circuit.
- 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.
- Premium Standard Wetted Component Materials.
- Few Moving Parts and Wall Mountable.
- Safe & Easy Priming with durable leak-free bleed valve assembly (standard).



Tested and Certified by WQA
against NSF/ANSI 61 & 372.



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

Intertek
9700150

Engineering Data

Reproducibility:	+/- 3% at maximum capacity
Viscosity Max CPS :	
LS02, 13:	300 CPS
LS14, 44:	1000 CPS
Stroke Frequency Max SPM:	125
Stroke Frequency Turn-Down Ratio:	10:1
Stroke Length Turn-Down Ratio:	10:1
Power Input:	2.6 VDC Nominal Range 11.8-14.0 VDC
Average Current Draw:	
LS02, 13, 14 Amps:	4.0 Amps
LS44 Amps:	8.0 Amps
Peak Input Power:	
LS02, 13, 14 Power:	138.6 Watts
LS44 Power:	189 Watts
Average Input Power @ Max SPM:	
LS02, 13, 14 Power:	50.4 Watts
LS44 Power:	100.8 Watts

Pressure and Flow Rate Capacity

MODEL	LS02	LS13	LS14	LS44
Capacity nominal (max.)	GPH	0.25	0.50	1.00
	GPD	6	12	24
	LPH	0.9	1.9	3.8
Pressure (max.)	PSIG	150	150	100
	BAR	10	10	7
Connections	1/4" ID X 3/8" OD			
	3/8" ID X 1/2" OD			
	1/4" FNPT			

PULSAtron Series E-DC Selection Guide

MODELS:	02	= 0.25 gph / 6 gpd (0.9 lph) max pres.: 150 PSI (10 BAR)
	13	= 0.50 gph / 12 gpd (1.9 lph) max pres.: 150 PSI (10 BAR)
	14	= 1.00 gph / 24 gpd (3.8 lph) max pres.: 100 PSI (7 BAR)
	44	= 1.85 gph / 44 gpd (7.0 lph) max pres.: 100 PSI (7 BAR)

CONTROLS: **S** = No Options Available

ELECTRICAL: **4** = 12V DC

LIQUID END MATERIALS:	PHC	= GFPPL / CSPE / Ceramic
	PTC	= GFPPL / TFE / Ceramic
Pump Head & Fittings/Seats & O-rings/Balls	PVC	= GFPPL / Viton / Ceramic
	VTC	= PVC / TFE / Ceramic

See page 6 for additional liquid end materials.

CONNECTION SIZES:	1	= Tubing .25" I.D. x .38" O.D. / .25" Ball, 0 - 1.88 GPH
	J	= Tubing .25" I.D. x .38" O.D. / 19" Ball, 0 - 1.04 GPH
	METRIC:	
	M	= G 1/2 A Threads, .38" Ball, 6.15 - 37.85 LPH
	R	= G 1/2 A Threads, .25" Ball, 0 - 7.10 LPH

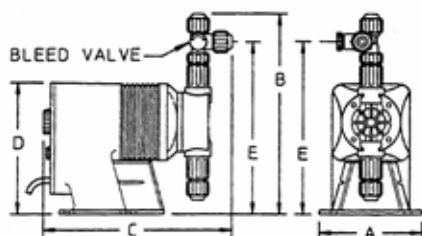
Please Refer to page 7 for additional connection sizes. All pumps with tubing connections come with the following items (except for LMH8, LPH8, HV Series pumps): 4' Suction, 4' Return, 8' discharge tubing, footvalve/strainer assy., injection valve and bleed valve.

SUFFIX CODES:	XXX	= No Additional Options
	130	= PVDF Tubing
	500	= Five Function Valve
	520	= Five Function Degas Valve
	ITS	= 15 gal. ITS Tank System
	CZ_XXX	= CE Approval (CZXXX=Europe; CZUKXXX=UK; CZSUIXXX=Switzerland/Liechtenstein)

See pages 8 & 9 for additional information and specs.

A completed model number should look like 'LS02S4-PTC1-XXX'

Dimensions



Series E-DC Dimensions (inches)						
Model No.	A	B	C	D	E	Shipping Weight
LS02	5.0	9.6	9.6	6.5	8.2	10
LS13	5.0	9.9	9.5	6.5	8.5	10
LS14	5.0	9.9	9.5	6.5	8.5	10
LS44	5.0	10.6	11.4	7.5	9.2	15

NOTE: Inches X 2.54 = cm

PULSAtron® Electronic Metering Pumps

Series A PLUS

Key Features

- Manual Control by on-line adjustable stroke rate and stroke length.
- Agency approved for demanding OUTDOOR and indoor applications.
- Highly Reliable timing circuit.
- 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.
- Premium Standard Wetted Component Materials.
- Few Moving Parts and Wall Mountable.
- Safe & Easy Priming with durable leak-free bleed valve assembly (standard).
- Optional Control:
 - External pace with auto/manual selection.
 - External stop function
 - 1000:1 turndown control (S2, S3 & S4 sizes only)



Tested and Certified by WQA
against NSF/ANSI 61 & 372.



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

Engineering Data

Reproducibility:	+/- 3% at maximum capacity
Viscosity Max CPS :	1000 CPS
Stroke Frequency Max SPM:	125 / 250 by Model
Stroke Frequency Turn-Down Ratio:	10:1 / 100:1 by Model
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:	0.6 Amps
@ 230 VAC; Amps:	0.3 Amps
Peak Input Power:	130 Watts
Average Input Power @ Max SPM:	50 Watts

Pressure and Flow Rate Capacity

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 ¹ (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		

Note 1: Pumps with rated pressure above 150 PSI will be de-rated to 150 PSI Max. when selecting certain valve options, see Price Book for details.

Pulsatron Series A Plus Selection Guide

Models

Product Code	Flow Rate			Pressure Rating ¹		Stroke Rate	Standard Valve	Max. Viscosity
	GPD	GPH	LPH	PSI	BAR	(SPM)	Size	(cps)
S2	12	0.50	1.9	250	17	250	J (TFE Only)	1,000
S3	33	1.38	5.2	150	10			
S4	58	2.42	9.1	100	7		1	
C2	6	0.25	0.9	250	17	125	J (TFE only)	
C3	10	0.42	1.6					
02	6	0.25	0.9	150	10			
03	12	0.50	1.9					
04	24	1.00	3.8	100	7			
64	30	1.25	4.7				1	
C4	48	2.00	7.6	50	3.3		3	

Controls

S	Manual Control	100:1 Turndown	10:1 Stroke Length 10:1 Frequency
E	External Pace w/ Auto/Manual Switch		
P	Stop Function Option		
Q	External Pace w/ Stop (125 SPM only)		
X	Manual Control (S2, S3 & S4 sizes only)	1000:1 Turndown	10:1 Stroke Length 100:1 Frequency

Electrical

A	115 VAC, 60Hz
B	230 VAC, 50-60Hz, 1 Ph, 6' (2m) cord with 3 prong US plug
1	115 VAC, 60Hz less Agency Approvals
2	230 VAC, 50-60Hz, 1 Ph, 6' (2m) cord, no plug, less Agency

Liquid End Configuration - Head & Valves / Seats & O-Rings / Check Balls

PHC	GFPPL / CSPE / Ceramic (150 PSI Max) ¹
PTC	GFPPL / TFE / Ceramic
VTC	PVC / TFE / Ceramic (150 PSI Max) ¹
WTC	PVC / TFE / Ceramic (models > 150 PSI Max); For use on S2, C2, C3
KTC	PVDF / TFE / Ceramic
VVC	PVC / Viton / Ceramic (Not available with J Valve) (150 PSI Max) ¹
VHC	PVC / CSPE / Ceramic (Not available with J Valve) (150 PSI Max) ¹
Other	See Page 6 for additional materials of construction

Connection Sizes

J	Tubing .25" I.D. x .38" O.D. Standard for pumps from 0 - 33 GPD
1	Tubing .25" I.D. x .38" O.D. Standard for pumps from 20 - 45 GPD
3	Tubing .38" I.D. x .50" O.D. Standard for pumps from 45 - 240 GPD
9	Degas Head: Vent Tubing .25" I.D. x .38" O.D. (0-150 PSI pumps only)
Metric	
R	G 1/2 A Threads, .25" Ball, 0-7.1 LPH
Y	Tubing 9 x 12mm, .25" Ball, 0-7.1 LPH
Other	See Page 7 for additional connection options

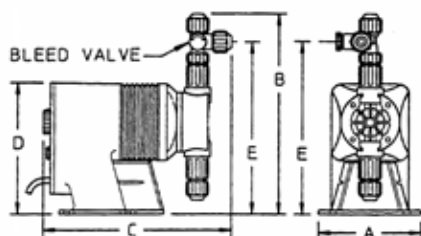
Options

XXX	Standard Pump - No Options
130	PVDF Tubing
500	Five Function Valve
520	Five Function Degassing Valve
ITS	15 gal. ITS Tank System
CZ XXX	CE Approval (CZXXX=Europe; CZUKXXX=UK; CZSUIXXX=Switzerland/Liechtenstein)

A completed model number should look like 'LB03SA-PTCJ-XXX'

Note 1: Pumps with rated pressure above 150 PSI will be de-rated to 150 PSI Max. when selecting these valve options.

Dimensions



Series A PLUS Dimensions (inches)						
Model No.	A	B	C	D	E	Shipping Weight
LB02 / S2	5.0	9.6	9.5	6.5	8.2	10
LBC2	5.0	9.9	9.5	6.5	8.5	10
LBC3	5.0	9.9	9.5	6.5	8.5	10
LB03 / S3	5.0	9.9	9.5	6.5	8.5	10
LB04 / S4	5.0	9.9	9.5	6.5	8.5	10
LB64	5.0	9.9	9.5	6.5	8.5	10
LBC4	5.0	9.9	9.5	6.5	8.5	10

NOTE: Inches X 2.54 = cm

PULSAtron® Electronic Metering Pumps

Series T7

Feed Control with 7 Day Timer

The Series T7 was designed to feed chemical products on a timed schedule. Typical applications include the feed of biocides in open-air cooling towers. The feed cycle is initiated and controlled by the programmable timer. The Series T7 provides everything you need in one unique, compact package to create a simple and cost effective metering system for timed applications.

Principal of Operation

The Series T7 is controlled by a 7-day programmable timer. The timer is programmable in 1-minute increments with up to 8 on/off cycles per day. Each timed event can be set to run any day of the week on a 7-day cycle. Other control features include a standby mode, continuous 'ON' mode and the ability to adjust the stroke length from 0 – 100%.

Features

- Isolated from Earth Ground
- Mode Select Knob, Stroke Length
- 12, 22, 30 & 44 GPD @ 100 psi – 7 bar
- Stroke length adjust 0-100%. Turn down ratio 10:1

Engineering Data

Reproducibility:	+/- 3% at maximum capacity
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:	0.6 Amps
@ 230 VAC; Amps:	0.3 Amps



Tested and Certified by WQA
against NSF/ANSI 61 & 372.



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



7-Day Timer

Solid-state 7-day electronic timer for easy adjustment of metering schedules and feed rates. Manual control allows for easy priming and start-up. The timer is programmable in 1 minute increments, with up to 8 events per day.

Pressure and Flow Rate Capacity

MODEL		LC13BA	LC14BA	LC64BA	LC44BA
Capacity nominal (max.)	GPH	0.50	1.00	1.25	2.00
	GPD	12	24	30	48
	LPH	1.9	3.8	4.7	7.6
Pressure (max.)	PSIG	100	100	100	50
	BAR	7	7	7	3.3

PULSAtron Series T7 Selection Guide

MODELS:	13	= 0.50 gph / 12 gpd (1.9 lph) max pres.: 100 PSI (7 BAR)
	14	= 1.00 gph / 24 gpd (3.8 lph) max pres.: 100 PSI (7 BAR)
	64	= 1.25 gph / 30 gpd (4.7 lph) max pres.: 100 PSI (7 BAR)
	44	= 2.00 gph / 48 gpd (7.6 lph) max pres.: 50 PSI (3.3 BAR)

CONTROLS:	B	= No Options Available
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ELECTRICAL:	A	= 115 Volt / 50-60Hz
	1	= 115 Volt / 50-60Hz (without agency approvals)
	B	= 230 Volt / 50-60Hz / 1ph with 6' (1.8m) 3-wire US Plug
	2	= 230 Volt / 50-60Hz (without agency approvals)

LIQUID END MATERIALS:	PHC	= GFPPL / CSPE / Ceramic
	PTC	= GFPPL / TFE / Ceramic
Pump Head & Fittings/Seats & O-rings/Balls	KTC	= PVDF / TFE / Ceramic
	VHC	= PVC / CSPE / Ceramic
	VTC	= PVC / TFE / Ceramic

See page 6 for additional liquid end materials.

CONNECTION SIZES:	1	= Tubing .25" I.D. x .38" O.D. / .25" Ball, 0 - 1.88 GPH
	9	= Degas Head: .25" I.D. x .38" O.D. / 0-1.83 GPH
	J	= Tubing, .25" I.D. x .38" O.D. / .19 Ball; 0 - 1.04 GPH
	METRIC:	
	Y	= 9 x 12mm, .25" Ball, 0 - 7.10 LPH
	T	= 6 x 8mm, Degassing (Note: has 8 mm suction), 0 - 7.10 LPH

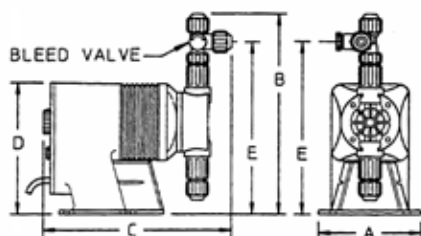
Please Refer to page 7 for additional connection sizes. All pumps with tubing connections come with the following items (except for LMH8, LPH8, HV Series pumps): 4' Suction, 4' Return, 8' discharge tubing, footvalve/strainer assy., injection valve and bleed valve.

SUFFIX CODES:	XXX	= No Additional Options
	130	= PVDF Tubing
	500	= Five Function Valve
	520	= Five Function Degas Valve
	ITS	= 15 gal. ITS Tank System

See pages 8 & 9 for additional information and specs.

A completed model number should look like 'LC13BA-PTC1-XXX'

Dimensions



Series T7 Dimensions (inches)						
Model No.	A	B	C	D	E	Shipping Weight
LC13BA	5.0	9.6	9.5	6.5	8.2	10
LC14BA	5.0	9.9	9.5	6.5	8.5	10
LC64BA	5.0	9.9	9.5	6.5	8.5	10
LC44BA	5.4	10.6	11.3	7.4	9.2	11.8

NOTE: Inches X 2.54 = cm

PULSAtron® Electronic Metering Pumps

Series C PLUS

Key Features

- Manual Control by on-line adjustable stroke rate and stroke length.
- Agency approved for demanding OUTDOOR and indoor applications.
- Highly Reliable timing circuit.
- 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.
- Premium Standard Wetted Component Materials.
- Few Moving Parts and Wall Mountable.
- Safe & Easy Priming with durable leak-free bleed valve assembly (standard).
- Optional Control: External pace with auto/manual selection.



Tested and Certified by WQA
against NSF/ANSI 61 & 372.



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

Engineering Data

Reproducibility:	+/- 3% at maximum capacity
Viscosity Max CPS :	1000 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:	0.6 Amps
@ 230 VAC; Amps:	0.3 Amps
Peak Input Power:	130 Watts
Average Input Power @ Max SPM:	50 Watts

Pressure and Flow Rate Capacity

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	4.7
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 C Plus Selection Guide

MODELS:	02	= 0.25 gph / 6 gpd (0.9 lph) max pres.: 80 PSI (5.6 BAR)
	03	= 0.50 gph / 12 gpd (1.9 lph) max pres.: 80 PSI (5.6 BAR)
	04	= 1.00 gph / 24 gpd (3.8 lph) max pres.: 80 PSI (5.6 BAR)
	54	= 1.25 gph / 30 gpd (4.7 lph) max pres.: 80 PSI (5.6 BAR)

CONTROLS:	S	= Manual
	E	= External Pacing w/ Auto/Manual Switch
	G	= External Pacing w/ Prime Button
	P	= Stop Function Option

ELECTRICAL:	A	= 115 Volt / 50-60Hz
	1	= 115 Volt / 50-60Hz (without agency approvals)
	B	= 230 Volt / 50-60Hz / 1ph with 6' (1.8m) 3-wire US Plug
	2	= 230 Volt / 50-60Hz (without agency approvals)

LIQUID END MATERIALS: Pump Head & Fittings/Seats & O-rings/Balls	PHC	= GFPP / CSPE / Ceramic
	PTC	= GFPP / TFE / Ceramic
	KTC	= PVDF / TFE / Ceramic
	VHC	= PVC / CSPE / Ceramic
	VTC	= PVC / TFE / Ceramic

See page 6 for additional liquid end materials.

CONNECTION SIZES:	1	= Tubing .25" I.D. x .38" O.D. / .25" Ball, 0 - 1.88 GPH
	A	= Tubing .38" I.D. x .50" O.D. / .25" Ball, 0 - 1.88 GPH
	J	= Tubing, .25" I.D. x .38" O.D. / .19 Ball; 0 - 1.04 GPH
	METRIC:	
	R	= G 1/2 A Threads, .25" Ball, 0 - 7.10 LPH

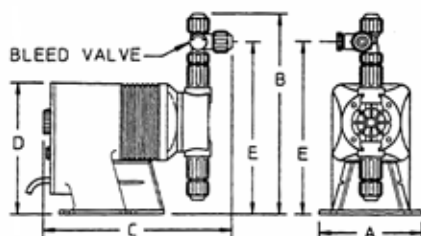
Please Refer to page 7 for additional connection sizes. All pumps with tubing connections come with the following items (except for LMH8, LPH8, HV Series pumps): 4' Suction, 4' Return, 8' discharge tubing, footvalve/strainer assy., injection valve and bleed valve.

SUFFIX CODES:	XXX	= No Additional Options
	130	= PVDF Tubing
	500	= Five Function Valve
	520	= Five Function Degas Valve
	ITS	= 15 gal. ITS Tank System
	CZ_XXX	= CE Approval (CZXXX=Europe; CZUKXXX=UK; CZSUIXXX=Switzerland/Liechtenstein)

See pages 8 & 9 for additional information and specs.

A completed model number should look like 'LD03SA-PTC1-XXX'

Dimensions



Series C PLUS Dimensions (inches)						
Model No.	A	B	C	D	E	Shipping Weight
LD02	5.0	9.6	9.5	6.5	8.2	10
LD03	5.0	9.9	9.5	6.5	8.5	10
LD04	5.0	9.9	9.5	6.5	8.5	10
LD54	5.0	9.9	9.5	6.5	8.5	10

NOTE: Inches X 2.54 = cm

PULSAtron® Electronic Metering Pumps

Series C

Key Features

- Automatic Control by external pacing with prime switch (optional).
- Manual Control by on-line adjustable stroke length (fixed stroke rate).
- Liquid Low Level Option available to prevent loss of prime.
- Agency approved for demanding OUTDOOR and indoor applications.
- Highly Reliable timing circuit.
- 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.
- Premium Standard Wetted Component Materials.
- Few Moving Parts and Wall Mountable.
- Safe & Easy Priming with durable leak-free bleed valve assembly (standard).

Degas Head Option



Tested and Certified by WQA
against NSF/ANSI 61 & 372.



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

Engineering Data

Reproducibility:	+/- 3% at maximum capacity
Viscosity Max CPS :	1000 CPS
Stroke Frequency Max SPM:	125
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:	0.6 Amps
@ 230 VAC; Amps:	0.3 Amps
Peak Input Power:	130 Watts
Average Input Power @ Max SPM:	50 Watts

Pressure and Flow Rate Capacity

MODEL		LC02	LC03	LC04	LC54
Capacity nominal (max.)	GPH	0.25	0.50	1.00	1.25
	GPD	6	12	24	30
	LPH	0.9	1.9	3.8	4.7
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 C Selection Guide

MODELS:	02	= 0.25 gph / 6 gpd (0.9 lph) max pres.: 80 PSI (5.6 BAR)
	03	= 0.50 gph / 12 gpd (1.9 lph) max pres.: 80 PSI (5.6 BAR)
	04	= 1.00 gph / 24 gpd (3.8 lph) max pres.: 80 PSI (5.6 BAR)
	54	= 1.25 gph / 30 gpd (4.7 lph) max pres.: 80 PSI (5.6 BAR)

CONTROLS:	S	= Manual
	E	= External Pacing w/ Auto/Manual Switch
	G	= External Pacing w/ Prime Button
	P	= Stop Function Option

ELECTRICAL:	A	= 115 Volt / 50-60Hz
	1	= 115 Volt / 50-60Hz (without agency approvals)
	B	= 230 Volt / 50-60Hz / 1ph with 6' (1.8m) 3-wire US Plug
	2	= 230 Volt / 50-60Hz (without agency approvals)

LIQUID END MATERIALS:	PHC	= GFPP / CSPE / Ceramic
	PTC	= GFPP / TFE / Ceramic
Pump Head & Fittings/Seats	VHC	= PVC / CSPE / Ceramic
	VTC	= PVC / TFE / Ceramic
& O-rings/Balls	VVC	= PVC / Viton / Ceramic

See page 6 for additional liquid end materials.

CONNECTION SIZES:	1	= Tubing .25" I.D. x .38" O.D. / .25" Ball, 0 - 1.88 GPH
	A	= Tubing .38" I.D. x .50" O.D. / .25" Ball, 0 - 1.88 GPH
	J	= Tubing, .25" I.D. x .38" O.D. / .19" Ball; 0 - 1.04 GPH
	METRIC:	
	P	= 4 x 6mm, .25" Ball, 0 - 3.94 LPH
	U	= 6 x 8mm, .25" Ball, 0 - 7.10 LPH

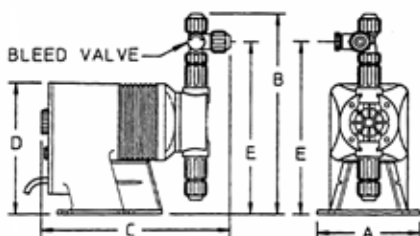
Please Refer to page 7 for additional connection sizes. All pumps with tubing connections come with the following items (except for LMH8, LPH8, HV series pumps): 4' Suction, 4' Return, 8' discharge tubing, footvalve/strainer assy., injection valve and bleed valve.

SUFFIX CODES:	XXX	= No Additional Options
	130	= PVDF Tubing
	500	= Five Function Valve
	520	= Five Function Degas Valve
	ITS	= 15 gal. ITS Tank System
	CZ XXX	= CE Approval (CZXXX=Europe; CZUKXXX=UK; CZSUIXXX=Switzerland/Liechtenstein)

See pages 8 & 9 for additional information and specs.

A completed model number should look like 'LC03SA-PTC1-XXX'

Dimensions



Series C Dimensions (inches)						
Model No.	A	B	C	D	E	Shipping Weight
LC02	5.0	9.6	9.5	6.5	8.2	10
LC03	5.0	9.9	9.5	6.5	8.5	10
LC04	5.0	9.9	9.5	6.5	8.5	10
LC54	5.0	9.9	9.5	6.5	8.5	10

NOTE: Inches X 2.54 = cm



Selecting a KOPkit:

All KOPkit model strings begin with the letter K. The remainder of the string can be determined by knowing your pump model.

When you select your KOPkit, you will need to build the model number based on the pump model string that you purchased. The two pieces of information you need are the head size and the wet-end code, which is part of the model string of the pump.

The pump head size is the fourth digit in the pump model number.

LB02SA-PTC1-XXX

 The 2 represents your pump head size.

Digits 7-20 in the pump model string represent the wet-end code. It is the group of four digits set apart by the dash lines.

LB02SA-PTC1-XXX

 These four digits represent your wet-end code.

In the following selection guide, you will break down your wet-end code into the four parts to get your total price for the KOPkit. The four digits in the wet-end code represent the Head Material, Seats & O-Rings, Ball Material and Connection Type. Using the above example, the code breaks down as follows:

P - Head Material, including fittings. In this example, the P represents GFPPL.

T - Seat & O-Ring Material. In this example, the T represents Teflon.

C - Types of Balls used in the valves. In this example, the C represents Ceramic.

1 - Connection type. In this example, the 1 represents tubing connections for 3/8" OD tubing.

The completed KOPkit number for the above example is:

K2PTC1

Note: If you do not find your connection size in the following selection guide, please consult the factory for accurate pricing. Our philosophy with the PULSAtron product line is to make it as flexible as our customers need it to be.

PULSAtron KOPkit Selection Guide

HEAD SIZE

The digits 2-8 following the K represents the pump head size. This is represented by the fourth digit in the pump model string.

- 2 =
 3 =
 4 =
 5 =
 6 =
 7 =
 8 = (Applies to WTCB only-for other options Consult factory)

HEAD MATERIALS

- A = 316 Stainless Steel
 K = PVDF (Kynar)
 P = GPPPL (Polypropylene)
 V = PVC (Poly Vinyl Chloride) (models <= 150 psi excluding H7, H8, K7)
 W = PVC (models > 150 psi and H7, H8, K7)

SEATS/O-RINGS

- H = CSPE
 V = Viton
 T = TFE

BALLS

- T = TFE
 C = Ceramic
 S = 316 Stainless Steel
 H = Alloy C (Hastelloy)

CONNECTION TYPE

Type	Suction	Discharge	Spring
1 = Tubing	.25" x .38"	.25" x .38"	
2 = Piping	.25" FNPT	.25" FNPT	
3 = Tubing	.38" x .50"	.38" x .50"	
4 = Piping	.25" FNPT	.25" FNPT	
5 = Tubing	.50" x .75"	.38" x .50"	Yes
6 = Piping	.25" FNPT	.25" FNPT	Yes
7 = Tubing	.50" x .75"	.50" FNPT	Yes
8 = Piping	.50" FNPT	.50" FNPT	Yes
9 = Tubing	.25" x .38"	.25" x .38"	Yes Degas
A = Tubing	.38" x .50"	.38" x .50"	
B = Tubing	.50" x .75"	.50" x .75"	
C = Piping	.50" FNPT	.50" FNPT	
D = Tubing	.25" x .38"	.25" x .38"	Yes
E = Tubing	.38" x .50"	.38" x .50"	Yes
F = Tubing	.38" x .50"	.38" x .50"	Yes
G = Piping	.25" FNPT	.25" FNPT	Yes
I = Piping	.50" MNPT	.50" MNPT	Yes
J = Tubing	.25" x .38"	.25" x .38"	
K = Tubing	.50" x .75"	.50" x .75"	Yes
L = Piping	.50" MNPT	.50" MNPT	
M = Piping	G 1/2 A	G 1/2 A	
P = Tubing	4 x 6 mm	4 x 6 mm	
R = Piping	G 1/2 A	G 1/2 A	
S = Tubing	6 x 8 mm	6 x 8 mm	
T = Tubing	6 x 8 mm	6 x 8 mm	Yes Degas
U = Tubing	6 x 8 mm	6 x 8 mm	
V = Tubing	12 x 19 mm	12 x 19 mm	
W = Tubing	8 x 12 mm	8 x 12 mm	
Y = Tubing	9 x 12 mm	9 x 12 mm	
X = Piping	.50" MNPT	.50" MNPT	



PULSAtron® KOPkit

PULSAtron KOPkit	
Part Number	Description
K2ATC2	KOPKIT K2 316/TFE/CDBL .25N
K2ATCG	KOPKIT K2 316/TFE/CSPR .25N
K2KTC1	KOPKIT K2 PVD/TFE/CDBL .38T
K2KTCJ	KOPKIT K2 PVD/TFE/CDBL .38T
K2PHC1	KOPKIT K2 FPP/HYP/C .38T
K2PTC1	KOPKIT K2 FPP/TFE/CDBL .38T
K2PTC2	KOPKIT K2 FPP/TFE/CDBL .25N
K2PTCJ	KOPKIT K2 FPP/TFE/CDBL .38T
K2VAT1	KOPKIT K2 PVC/HYP/TDBL .38T
K2VHC1	KOPKIT K2 PVC/HYP/C .38T
K2VTC1	KOPKIT K2 PVC/TFE/CDBL .38T
K2VTC9	KOPKIT K2 PVC/TFE/CDBL .38T
K2VTCJ	KOPKIT K2 PVC/TFE/CDBL .38T
K2VVC1	KOPKIT K2 PVC/VTN/C .38T
K2VVC9	KOPKIT K2 PVC/VTN/C .38T
K2WTC1	KOPKIT K2 HPV/TFE/CDBL .38T
K2WTCJ	KOPKIT K2 HPV/TFE/CDBL .38T
K3ATC2	KOPKIT K3 316/TFE/CDBL .25N
K3ATSG	KOPKIT K3 316/TFE/SSPR .25N
K3KTC1	KOPKIT K3 PVD/TFE/CDBL .38T
K3KTCA	KOPKIT K3 PVD/TFE/CDBL .50T
K3KTCJ	KOPKIT K3 PVD/TFE/CDBL .38T
K3KTT1	KOPKIT K3 PVD/TFE/TDBL .38T
K3PHC1	KOPKIT K3 FPP/HYP/C .38T
K3PTC1	KOPKIT K3 FPP/TFE/CDBL .38T
K3PTC2	KOPKIT K3 FPP/TFE/CDBL .25N
K3PTCJ	KOPKIT K3 FPP/TFE/CDBL .38T
K3PTT1	KOPKIT K3 FPP/TFE/TDBL .38T
K3PTT5	KOPKIT K3 FPP/TFE/TSPR .50T
K3VHC1	KOPKIT K3 PVC/HYP/C .38T
K3VHC9	KOPKIT K3 PVC/HYP/C .38T
K3VTC1	KOPKIT K3 PVC/TFE/CDBL .38T
K3VTC9	KOPKIT K3 PVC/TFE/CDBL .38T
K3VTCJ	KOPKIT K3 PVC/TFE/CDBL .38T
K3VTT5	KOPKIT K3 PVC/TFE/TSPR .50T
K3VVC1	KOPKIT K3 PVC/VTN/C .38T
K3VVC9	KOPKIT K3 PVC/VTN/C .38T
K3WTC1	KOPKIT K3 HPV/TFE/CDBL .38T
K3WTCJ	KOPKIT K3 PVC/TFE/CDBL .38T
K4ATS2	KOPKIT K4 316/TFE/SDBL .25N
K4ATSG	KOPKIT K4 316/TFE/SSPR .25N
K4KTC1	KOPKIT K4 PVD/TFE/CDBL .38T
K4KTC2	KOPKIT K4 PVD/TFE/CDBL .25N
K4KTC3	KOPKIT K4 PVD/TFE/CDBL .50T
K4KTCJ	KOPKIT K4 PVD/TFE/CDBL .38T
K4KTT1	KOPKIT K4 PVD/TFE/TDBL .38T
K4KVC1	KOPKIT K4 PVD/VTN/C .38T
K4PHC1	KOPKIT K4 FPP/HYP/C .38T
K4PTC1	KOPKIT K4 FPP/TFE/CDBL .38T
K4PTC3	KOPKIT K4 FPP/TFE/CDBL .50T
K4PTCA	KOPKIT K4 FPP/TFE/CDBL .50T
K4PTCJ	KOPKIT K4 FPP/TFE/CDBL .38T
K4PTS3	KOPKIT K4 FPP/TFE/SDBL .50T
K4PTT1	KOPKIT K4 FPP/TFE/TDBL .38T
K4PTT5	KOPKIT K4 FPP/TFE/TSPR .50T
K4PVC1	KOPKIT K4 FPP/VTN/C .38T
K4PVS3	KOPKIT K4 FPP/VTN/316 .50T
K4VHC1	KOPKIT K4 PVC/HYP/C .38T
K4VHC3	KOPKIT K4 PVC/HYP/C .50T
K4VHC9	KOPKIT K4 PVC/HYP/C .38T
K4VHCA	KOPKIT K4 PVC/HYP/C .50T

Part Number	Description
K4VTC1	KOPKIT K4 PVC/TFE/CDBL .38T
K4VTC2	KOPKIT K4 PVC/TFE/CDBL .25N
K4VTC3	KOPKIT K4 PVC/TFE/CDBL .50T
K4VTC9	KOPKIT K4 PVC/TFE/CDBL .38T
K4VTCJ	KOPKIT K4 PVC/TFE/CDBL .50T
K4VTCJ	KOPKIT K4 PVC/TFE/CDBL .38T
K4VTSK	KOPKIT K4 PVC/TFE/SSPR .75T
K4VTT1	KOPKIT K4 PVC/TFE/TDBL .38T
K4VTT5	KOPKIT K4 PVC/TFE/TSPR .50T
K4VVC1	KOPKIT K4 PVC/VTN/C .38T
K4VVC9	KOPKIT K4 PVC/VTN/C .38T
K4WTC1	KOPKIT K4 HPV/TFE/CDBL .38T
K4WTC3	KOPKIT K4 HPV/TFE/CDBL .50T
K5ATS4	KOPKIT K5 316/TFE/SDBL .25N
K5KTC3	KOPKIT K5 PVD/TFE/CDBL .50T
K5PHC3	KOPKIT K5 FPP/HYP/C .50T
K5PTC3	KOPKIT K5 FPP/TFE/CDBL .50T
K5PTC4	KOPKIT K5 FPP/TFE/CDBL .25N
K5PTCH	KOPKIT K5 FPP/TFE/CDBL .38T
K5PTSK	KOPKIT K5 FPP/TFE/SSPR .75T
K5PTT3	KOPKIT K5 FPP/TFE/TDBL .50T
K5VHC3	KOPKIT K5 PVC/HYP/C .50T
K5VTC3	KOPKIT K5 PVC/TFE/CDBL .50T
K5VTSK	KOPKIT K5 PVC/TFE/SSPR .75T
K5VTT4	KOPKIT K5 PVC/TFE/TDBL .25N
K5VVC3	KOPKIT K5 PVC/VTN/C .50T
K6ATS4	KOPKIT K5 316/TFE/SDBL .25N
K6KTC3	KOPKIT K6 PVD/TFE/CDBL .50T
K6KTC4	KOPKIT K6 PVD/TFE/CDBL .25N
K6KTT3	KOPKIT K6 PVD/TFE/TDBL .50T
K6PHC3	KOPKIT K6 FPP/HYP/C .50T
K6PTC3	KOPKIT K6 FPP/TFE/CDBL .50T
K6PTC4	KOPKIT K6 FPP/TFE/CDBL .25N
K6PTC7	KOPKIT K6 FPP/TFE/CSPR .50N
K6PTT3	KOPKIT K6 FPP/TFE/TDBL .50T
K6PTT4	KOPKIT K6 FPP/TFE/TDBL .25N
K6VHC3	KOPKIT K6 PVC/HYP/C .50T
K6VTC3	KOPKIT K6 PVC/TFE/CDBL .50T
K6VTT3	KOPKIT K6 PVC/TFE/TDBL .50T
K6VVC3	KOPKIT K6 PVC/VTN/C .50T
K7KTC3	KOPKIT K7 PVD/TFE/CDBL .50T
K7KTC4	KOPKIT K7 PVD/TFE/CDBL .25N
K7KTT3	KOPKIT K7 PVD/TFE/TDBL .50T
K7PHC3	KOPKIT K7 FPP/HYP/C .50T
K7PTC3	KOPKIT K7 FPP/TFE/CDBL .50T
K7PTC4	KOPKIT K7 FPP/TFE/CDBL .25N
K7PTSK	KOPKIT K7 FPP/TFE/SDBL .75T
K7PTT3	KOPKIT K7 FPP/TFE/TDBL .50T
K7WHC3	KOPKIT K7 HPV/HYP/C .50T
K7WTC3	KOPKIT K7 HPV/TFE/CDBL .50T
K7WTC8	KOPKIT K7 HPV/TFE/CSPR .50N
K7WTSK	KOPKIT K7 HPV/TFE/SSPR .75T
K7WTT3	KOPKIT K7 HPV/TFE/TDBL .50T
K8PTCB	KOPKIT K8 FPP/TFE/C .75T
K8PTCC	KOPKIT K8 FPP/TFE/C .50N
K8PTSB	KOPKIT K8 FPP/TFE/316 .75T
K8PTTB	KOPKIT K8 FPP/TFE/TFE .75T
K8WTC8	KOPKIT K8 HPV/TFE/CSPR .50N
K8WTCB	KOPKIT K8 HPV/TFE/C .75T
K8WTCC	KOPKIT K8 HPV/TFE/C .50N
K8WTTB	KOPKIT K8 HPV/TFE/TFE .75T
K8WVCB	KOPKIT K8 HPV/VTN/C .75T

Suction and Discharge Valve Kits	
Part Number	Description
VKKTCT1	Valve Kit - Suction & Discharge Valves - KTC1
VKKTCT3	Valve Kit - Suction & Discharge Valves - KTC3
VKPTCT1	Valve Kit - Suction & Discharge Valves - PTC1
VKPTCT3	Valve Kit - Suction & Discharge Valves - PTC3
VKVHC1	Valve Kit - Suction & Discharge Valves - VHC1
VKVHC3	Valve Kit - Suction & Discharge Valves - VHC3
VKVTC1	Valve Kit - Suction & Discharge Valves - VTC1
VKVTC3	Valve Kit - Suction & Discharge Valves - VTC3
VKVVC9	Valve Kit - Suction, Discharge & Degas Valves - VVC9

Diaphragm Kits - Pack of 5 includes Diaphragm, Deflection Plate, Shims	
Part Number	Description
5PKDIA2	5 Pack Diaphragm, Deflection Plate, Shims - Head # 2
5PKDIA3	5 Pack Diaphragm, Deflection Plate, Shims Head # 3
5PKDIA4	5 Pack Diaphragm, Deflection Plate, Shims Head # 4
5PKDIA5	5 Pack Diaphragm, Deflection Plate, Shims Head # 5
5PKDIA6	5 Pack Diaphragm, Deflection Plate, Shims Head # 6
5PKDIA7	5 Pack Diaphragm, Deflection Plate, Shims Head # 7
5PKDIA8	5 Pack Diaphragm, Deflection Plate, Shims Head # 8

PEPkit - Includes KOPkit, Bleed Vlv, Injection Vlv, Foot Vlv Strainer, Tubing	
Part Number	Description
P2PTC1	PEPkit P2 FPP/TFE/CDBL .38T
P2PTCJ	PEPkit P2 FPP/TFE/CDBL .38T
P3PTC1	PEPkit K3 FPP/TFE/CDBL .38T
P3VTC1	PEPKIT K3 PVC/TFE/CDBL .38T
P3VTCJ	PEPKIT K3 PVC/TFE/CDBL .38T
P4KTC1	PEPKIT K4 PVD/TFE/CDBL .38T
P4PTC1	PEPKIT K4 FPP/TFE/CDBL .38T
P4VHC1	PEPKIT K4 PVC/HYP/C .38T
P4VTC1	PEPKIT K4 PVC/TFE/CDBL .38T
P4VVC9	PEPKIT K4 PVC/VTN/C .38T
P5PTC3	PEPKIT K5 FPP/TFE/CDBL .50T
P5VTC3	PEPKIT K5 PVC/TFE/CDBL .50T
P6PTC3	PEPKIT K6 FPP/TFE/CDBL .50T
P6VTC3	PEPKIT K6 PVC/TFE/CDBL .50T
P7PTC3	PEPKIT K7 FPP/TFE/CDBL .50T
P8WTCB	PEPKIT K8 HPV/TFE/C .75T

Drive End Components		
Part Number	Description	
L5000801-115	CNTRL PANEL ASSY; A-B-D-E SIZE SLDS,	115V
L5000901-115	CNTRL PANEL ASSY, EXT/STOP; A-B-D-E SIZE SLDS,	115V
L5000901-230	CNTRL PANEL ASSY, EXT/STOP; A-B-D-E SIZE SLDS,	230V
L5001001-115	CNTRL PANEL ASSY, 4-20MA/STOP; A-B-D-E- SIZE SLDS,	115V
L5001001-230	CNTRL PANEL ASSY, 4-20MA/STOP; A-B-D-E SIZE SLDS,	230V
L5001301-115	CNTRL PANEL ASSY, H SIZE SLD	115V
L5028500-115	CNTRL PANEL ASSY, LEH8	115V
L5028201-115	CNTRL PANEL ASSY, LVH7, LP/LVH8	115V
L5001401-115	CNTRL PANEL ASSY, EXT/STOP; H SIZE SLD	115V
L5001401-230	CNTRL PANEL ASSY, EXT/STOP; H SIZE SLD	230V
L5028301-115	CNTRL PANEL ASSY, EXT/STOP; LVH7, LP/LVH8	115V
L5028300-230	CNTRL PANEL ASSY, EXT/STOP; LVH7, LP/LVH8	230V
L5001501-115	CNTRL PANEL ASSY, 4-20MA/STOP; H SIZE SLD	115V
L5001501-230	CNTRL PANEL ASSY, 4-20MA/STOP; H SIZE SLD,	230V
L5028401-115	CNTRL PANEL ASSY, 4-20MA/STOP; LVH7, LP/LVH8	115V
L5028401-230	CNTRL PANEL ASSY, 4-20MA/STOP; LVH7, LP/LVH8	230V
L5000100-115	CNTRL PANEL ASSY, SERIES E; 0-1/SIZE SLD	115V
L5000100-230	CNTRL PANEL ASSY, SERIES E; 0-1/SIZE SLD	230V
L5000200-115	CNTRL PANEL ASSY, 3-4 SIZE SLDS	115V
L5000200-230	CNTRL PANEL ASSY, 3-4 ZISE SLDS	230V
L5002900-115	CNTRL PANEL ASSY SIN-FUNC; 0-SIZE SLD, SERIES C	115V
L5003000-115	CNTRL PANEL ASSY SIN-FUNC; 5-SIZE SLD, SERIES C	115V
L5011000-115	CNTRL PANEL ASSY EXT PACE; SIZE 54, SERIES C	115V
L5013000-115	CNTRL PANEL ASSY EXT PACE; SIZE 54, SERIES C	115V
L5003016-115	CNTRL PANEL ASSY, 4-20MA/STOP; LPK5	115V
L5003701-115	CNTRL PANEL ASSY, STD; K SIZE SLD	115V
L5003801-115	CNTRL PANEL ASSY, EXT/STOP; K SIZE SLD	115V
L5003801-230	CNTRL PANEL ASSY, EXT/STOP; K SIZE SLD	230V
L5003903-115	CNTRL PANEL ASSY, 4-20MA/STOP; K7	115V
L5003903-230	CNTRL PANEL ASSY, 4-20MA/STOP; K7	230V
L5004100-115	CNTRL PANEL ASSY, SIN-FUNC; SIZE 54, SERIES C PLUS	115V
L5010800-230	CNTRL PANEL ASSY EXT PACE; SIZE 02, 03, 04, C3, C4 SERIES A+/C+	230V
L5010900-230	CNTRL PANEL ASSY EXT PACE; SIZE 54, 64 SERIES A+/C+	230V
L5005200-115	CNTRL PANEL ASSY; SIZE 02, 03, 04, C3, C4 SERIES A+/C+	115V
L5005300-230	CNTRL PANEL ASSY; SIZE 02, 03, 04, C3, C4 SERIES A+/C+	230V
L5004800-115	CNTRL PANEL ASSY; SIZE 54, 64 SERIES A+/C+	115V
L5007501-115	CNTRL PNL ASSY LMK2; SIGNAL RELAY	115V
L5007301-115	CNTRL PNL ASSY LM A,B,C,D,E,K3; SIGNAL RELAY	115V
L5007301-230	CNTRL PNL ASSY LM A,B,C,D,E,K3; SIGNAL RELAY	230V
L5007401-115	CNTRL PNL ASSY LM A,B,C,D,E,K3; POWER RELAY	115V
L5007401-230	CNTRL PNL ASSY LM A,B,C,D,E,K3; POWER RELAY	230V
L5007701-115	CNTRL PNL ASSY LMK5; SIGNAL RELAY	115V
L5007101-115	CNTRL PNL ASSY LM F, G; SIGNAL RELAY	115V
L5007701-230	CNTRL PNL ASSY LMK5; SIGNAL RELAY	230V
L5007101-230	CNTRL PNL ASSY LM F, G; SIGNAL RELAY	230V
L5007801-115	CNTRL PNL ASSY LMK5; POWER RELAY	115V
L5007201-115	CNTRL PNL ASSY LM F, G; POWER RELAY	115V
L5007901-115	CNTRL PNL ASSY LMK7; SIGNAL RELAY	115V
L5006901-115	CNTRL PNL ASSY LM H; SIGNAL RELAY	115V
L5007901-230	CNTRL PNL ASSY LMK7; SIGNAL RELAY	230V
L5006901-230	CNTRL PNL ASSY LM H; SIGNAL RELAY	230V
L5007001-115	CNTRL PNL ASSY H; POWER RELAY	115V

Bleed Valve Assemblies		
Part Number	Description	
L3300H01-FPP	FPP/CSPE	3/8"
L3300H01-PVC	PVC/CSPE	3/8"
L3300H03-FPP	FPP/CSPE	1/2"
L3300H03-PVC	PVC/CSPE	1/2"
L3300T01-FPP	FPP/TFE	3/8"
L3300T01-PVC	PVC/TFE	3/8"
L3300T01-PVD	PVD/TFE	3/8"
L3300T03-FPP	FPP/TFE	1/2"
L3300T03-PVC	PVC/TFE	1/2"
L3300T03-PVD	PVD/TFE	1/2"
L3300V01-FPP	FPP/VTN	3/8"
L3300V01-PVC	PVC/VTN	3/8"
L3300V01-PVD	PVD/VTN	3/8"
L3300V03-FPP	FPP/VTN	1/2"
L3300V03-PVC	PVC/VTN	1/2"
L3300V03-PVD	PVD/VTN	1/2"

Foot Valve / Strainer Assemblies		
Part Number	Description	
J40117	FPP/CSPE/C	3/8" X 1/2"
J40123	FPP/CSPE/TFE	3/8" X 1/2"
J60509	FPP/VTN/C	3/8" X 1/2"
J40141	FPP/VTN/316	3/8" X 1/2"
J40125	FPP/VTN/TFE	3/8" X 1/2"
J40212	FPP/FTF/C	3/8" X 1/2"
J40175	FPP/FTF/316	3/8" X 1/2"
J40171	FPP/FTF/TFE	3/8" X 1/2"
J60728	PVD/FTF/C	3/8" X 1/2"
J60729	PVD/CSPE/C	3/8" X 1/2"
J60730	PVD/VTN/C	3/8" X 1/2"
J40116	FPP/CSPE/C	1/4" X 3/8"
J40156	FPP/CSPE/316	1/4" X 3/8"
J40122	FPP/CSPE/TFE	1/4" X 3/8"
J60524	FPP/VTN/C	1/4" X 3/8"
J40158	FPP/VTN/316	1/4" X 3/8"
J40124	FPP/VTN/TFE	1/4" X 3/8"
J40211	FPP/FTF/C	1/4" X 3/8"
J40170	FPP/FTF/316	1/4" X 3/8"
J40169	FPP/FTF/TFE	1/4" X 3/8"
J60716	PVD/FTF/C	1/4" X 3/8"
J60717	PVD/CSPE/C	1/4" X 3/8"
J60718	PVD/VTN/C	1/4" X 3/8"
J40095	316 - Strainer Only	.25 NPT
J40195	FPP/CSPE/C	.25 NPT
J40187	FPP/VTN/C	.25 NPT
J40179	FPP/FTF/C	.25 NPT
J60503	FPP - Strainer Only	.50 NPT
J60561	FPP - Strainer Only	1/2 X 3/4"
J60564	FPP/FTF/C	3/16 X 5/16"
J60712	PVD/FTF/C	3/16 X 5/16"

Stainless Steel Valve Repair Kits	
Part Number	Description
L9904200-316	VALVE REPAIR KIT - ATS2
L9904600-316	VALVE REPAIR KIT - ATS4
L9904900-316	VALVE REPAIR KIT - ATSG

Injection Back Press Valve Assemblies		
Part Number	Description	
J41767	FPP/CSPE/C	3/8" X 1/2"
J41863	FPP/CSPE/316	3/8" X 1/2"
J41773	FPP/CSPE/TFE	3/8" X 1/2"
41716	FPP/VTN/C	3/8" X 1/2"
J41882	FPP/VTN/316	3/8" X 1/2"
J41775	FPP/VTN/TFE	3/8" X 1/2"
J41872	FPP/FTF/C	3/8" X 1/2"
J41879	FPP/FTF/316	3/8" X 1/2"
J41875	FPP/FTF/TFE	3/8" X 1/2"
J41694	PVC/CSPE/C	3/8" X 1/2"
41698	PVC/CSPE/C 6"	3/8" X 1/2"
41702	PP/VTN/C 6"	3/8" X 1/2"
J41865	PVC/CSPE/316	3/8" X 1/2"
J41759	PVC/CSPE/TFE	3/8" X 1/2"
J41714	PVC/VTN/C	3/8" X 1/2"
J41761	PVC/VTN/TFE	3/8" X 1/2"
J41873	PVC/FTF/C	3/8" X 1/2"
J41881	PVC/FTF/316	3/8" X 1/2"
J41877	PVC/FTF/TFE	3/8" X 1/2"
J61073	PVD/FTF/TFE	3/8" X 1/2"
J61021	PVD/FTF/C	3/8" X 1/2"
J41766	FPP/CSPE/C	1/4" X 3/8"
J41862	FPP/CSPE/316	1/4" X 3/8"
J41772	FPP/CSPE/TFE	1/4" X 3/8"
41715	FPP/VTN/C	1/4" X 3/8"
41701	FPP/VTN/C 6"	1/4" X 3/8"
J41866	FPP/VTN/316	1/4" X 3/8"
J41774	FPP/VTN/TFE	1/4" X 3/8"
J61098	FPP/FTF/C	1/4" X 3/8"
J41878	FPP/FTF/316	1/4" X 3/8"
J41874	FPP/FTF/TFE	1/4" X 3/8"
41693	PVC/CSPE/C	1/4" X 3/8"
41705	PVC/CSPE/C 6"	1/4" X 3/8"
J41758	PVC/CSPE/TFE	1/4" X 3/8"
J61237	PVC/VTN/C	1/4" X 3/8"
J41867	PVC/VTN/316	1/4" X 3/8"
41760	PVC/VTN/TFE	1/4" X 3/8"
J41996	PVC/FTF/C	1/4" X 3/8"
J41880	PVC/FTF/316	1/4" X 3/8"
J41876	PVC/FTF/TFE	1/4" X 3/8"
J61020	PVD/FTF/C	1/4" X 3/8"
J61026	PVD/FTF/TFE	1/4" X 3/8"
J41911	FPP/CSPE/C	.25 NPT
J41901	FPP/VTN/C	.25 NPT
J41944	FPP/FTF/C	.25 NPT
J41904	PVC/CSPE/C	.25 NPT
J41858	PVC/VTN/C	.25 NPT
J41908	PVC/FTF/C	.25 NPT
J61015	PVD/FTF/C	.25 NPT
J61025	316/FTF/316	.25 NPT
J41969	PVC/CSPE/C	1/2 X 3/4"
J61149-10P	FPP/FTF/C	1/2 X 3/4"
J61157-10P	PVC/FTF/C	.50 NPT
J61156-10P	PVC/TFE/S	.50 NPT

Tubing - Per FT - Min 25 Feet	
Part Number	Description - Per Ft. Min 25 Feet
00007	SUCT, 3/8 OD, CLEAR PVC
00008	DISCH, 1/2 OD, WHITE PE
00009	DISCH, 1/2 OD, BLACK PE
00010	DISCH, 3/8 OD, WHITE PE
00011	DISCH, 3/8 OD, BLACK PE
J00012	DISCH, 1/2 OD, HI PRES, WHITE
00013	DISCH, 1/2 OD, HI PRES, BLACK
J00022	DISCH, 3/8 OD, HI PRES, WHITE
J00023	SUCT, 1/2 OD, CLEAR PVC
J00024	DISCH, 3/8 OD, HI PRES, BLACK
J00032	SUCT/DISCH, 3/4 OD, CLEAR PVC

Part Number	Description - Per Ft. Min 25 Feet
L9902900-000	PVDF TUBING, 3/8 OD
L9903000-000	PVDF TUBING, 1/2 OD
L9904300-PEB	SUCT, 5/16 OD, PE BLACK
L9904300-PEW	SUCT, 5/16 OD, PE WHITE
L9904300-PVC	SUCT, 5/16 OD, CLEAR PVC
L9904300-PVD	SUCT, 5/16 OD, PVDF WHITE
L9904500-PEW	DISCH, 1/2 X 5/8, PE WHITE
L9913200-BRD	PVC CLEAR BRAIDED, 3/4 OD

BLACK LINE

Mechanical Diaphragm Pumps

Common Pump Accessories			
Component	Size	Material	Part No.
Drip Cover, Motor	56C	Steel, Baldor	NP999119-000
Pressure Relief Valves	1/2"	PVC/TFE	NA100001-PVC
	1/2"	PVDF/TFE	NA100001-PVD
	1/2"	SS/TFE	NA100001-316
	1"	PVC/TFE	NA100002-PVC
	1"	PVDF/TFE	NA100002-PVD
	1"	SS/TFE	NA100002-316
	1.5"	PVC/TFE	NA100003-PVC
	1.5"	PVDF/TFE	NA100003-PVD
Back Pressure Valves	1/2"	PVC/TFE	NA200001-PVC
	1/2"	PVDF/TFE	NA200001-PVD
	1/2"	SS/TFE	NA200001-316
	1"	PVC/TFE	NA200002-PVC
	1"	PVDF/TFE	NA200002-PVD
	1"	SS/TFE	NA200002-316
	1.5"	PVC/TFE	NA200003-PVC
	1.5"	PVDF/TFE	NA200003-PVD
Gauge Isolator w/ 200 PSI Gauge	1/4"	PVC/TFE	NA500001-PVC
	1/4"	PVDF/TFE	NA500001-PVD
	1/4"	316SS/TFE	NA500001-316
Calibration Column	1/2"	PVC 100mL	NA300001-PVC
	1/2"	PVC 200mL	NA300002-PVC
	3/4"	PVC 500mL	NA300003-PVC
	3/4"	PVC 1000mL	NA300004-PVC
	1"	PVC 2000mL	NA300005-PVC
	1"	PVC 4000mL	NA300006-PVC
	2"	PVC 10,000mL	NA300007-PVC
	2"	PVC 20,000mL	NA300008-PVC
	1/2"	Glass/PVD 100mL	NA300009-PVD
	1/2"	Glass/PVD 200mL	NA300010-PVD
	3/4"	Glass/PVD 500mL	NA300011-PVD
	3/4"	Glass/PVD 1000mL	NA300012-PVD
	1"	Glass/PVD 2000mL	NA300013-PVD
	1"	Glass/PVD 4000mL	NA300014-PVD
	1/2"	Glass/SS 100mL	NA300015-316
	1/2"	Glass/SS 200mL	NA300016-316
	3/4"	Glass/SS 500mL	NA300017-316
	3/4"	Glass/SS 1000mL	NA300018-316
	1"	Glass/SS 2000mL	NA300019-316
	1"	Glass/SS 4000mL	NA300020-316
Y Strainer	1/2"	PVC	40085
	1/2"	CPVC	NA400001-CPVC
	1/2"	PVD	NA400001-PVD
	1"	PVC	NA400002-PVC
	1"	CPVC	NA400002-CPVC

150 PSI Pulsation Dampeners - Chargeable					
Volume	Body	Bladder	Connection	Part Number	
10 cubic inches	POLY	EPDM	3/8" FNPT	NA601038-FPPE	
		CSPE	3/8" FNPT	NA601038-FPPC	
		TFE	3/8" FNPT	NA601038-FPPT	
		Viton	3/8" FNPT	NA601038-FPPV	
		CSPE	1/2" FNPT	NA601050-FPPC	
		TFE	1/2" FNPT	NA601050-FPPT	
	PVC	Viton	1/2" FNPT	NA601050-FPPV	
		CSPE	1/2" FNPT	NA601050-PVCC	
		TFE	1/2" FNPT	NA601050-PVCT	
	PVDF	Viton	1/2" FNPT	NA601050-PVCV	
		EPDM	3/8" FNPT	NA601038-PVDE	
		CSPE	3/8" FNPT	NA601038-PVDC	
		TFE	3/8" FNPT	NA601038-PVDT	
	316 SS	Viton	3/8" FNPT	NA601038-PVDV	
		EPDM	3/8" FNPT	NA601038-316E	
		CSPE	3/8" FNPT	NA601038-316C	
		TFE	3/8" FNPT	NA601038-316T	
	85 cubic inches	POLY	Viton	3/8" FNPT	NA601038-316V
EPDM			3/4" FNPT	NA608575-FPPE	
CSPE			3/4" FNPT	NA608575-FPPC	
TFE			3/4" FNPT	NA608575-FPPT	
PVDF		Viton	3/4" FNPT	NA608575-FPPV	
		EPDM	3/4" FNPT	NA608575-PVDE	
		CSPE	3/4" FNPT	NA608575-PVDC	
		TFE	3/4" FNPT	NA608575-PVDT	
316 SS		Viton	3/4" FNPT	NA608575-PVDV	
		EPDM	3/4" FNPT	NA608575-316E	
		CSPE	3/4" FNPT	NA608575-316C	
		TFE	3/4" FNPT	NA608575-316T	
370 cubic inches		POLY	Viton	3/4" FNPT	NA608575-316V
			EPDM	2" FNPT	NA637020-FPPE
			CSPE	2" FNPT	NA637020-FPPC
			TFE	2" FNPT	NA637020-FPPT
		PVDF	Viton	2" FNPT	NA637020-FPPV
			EPDM	2" FNPT	NA637020-PVDE
	CSPE		2" FNPT	NA637020-PVDC	
	TFE		2" FNPT	NA637020-PVDT	
	316 SS	Viton	2" FNPT	NA637020-PVDV	
		EPDM	2" FNPT	NA637020-316E	
		CSPE	2" FNPT	NA637020-316C	
		TFE	2" FNPT	NA637020-316T	
	36 cubic inches	POLY	Viton	2" FNPT	NA637020-316V
			EPDM	3/4" FNPT	NA603675-FPPE
			CSPE	3/4" FNPT	NA603675-FPPC
			TFE	3/4" FNPT	NA603675-FPPT
		PVDF	Viton	3/4" FNPT	NA603675-FPPV
			EPDM	3/4" FNPT	NA603675-PVDE
CSPE			3/4" FNPT	NA603675-PVDC	
TFE			3/4" FNPT	NA603675-PVDT	
316 SS		Viton	3/4" FNPT	NA603675-PVDV	
		EPDM	3/4" FNPT	NA603675-316E	
		CSPE	3/4" FNPT	NA603675-316C	
		TFE	3/4" FNPT	NA603675-316T	
175 cubic inches		POLY	Viton	3/4" FNPT	NA603675-316V
			EPDM	2" FNPT	NA617520-FPPE
			CSPE	2" FNPT	NA617520-FPPC
			TFE	2" FNPT	NA617520-FPPT
		PVDF	Viton	2" FNPT	NA617520-FPPV
			EPDM	2" FNPT	NA617520-PVDE
	CSPE		2" FNPT	NA617520-PVDC	
	TFE		2" FNPT	NA617520-PVDT	
	316 SS	Viton	2" FNPT	NA617520-PVDV	
		EPDM	2" FNPT	NA617520-316E	
		CSPE	2" FNPT	NA617520-316C	
		TFE	2" FNPT	NA617520-316T	
	316 SS	Viton	2" FNPT	NA617520-316V	

Specifications: 150 PSI Maximum Pressure

CHEM-TECH Peristaltic Pumps

Series XP

The Chem-Tech XP Series with peristaltic technology delivers worry-free dosing in a modern design. Each and every component of the XP Series is designed and manufactured for optimum reliability and durability for REAL Performance.

The electronic timing circuit in the adjustable 'A' Models provides reliable pump control, without relying on mechanical adjustment components that wear out over time.

The intuitive interface and controls provide easy operation and the peristaltic design is virtually maintenance-free.

Tailor-made for the water conditioning market, the XP Series offer affordable solutions in both initial cost and operation. A rugged gear train and computer-aided peristaltic design ensure long-lasting performance.



Tested and Certified by WQA
 against NSF/ANSI 61 & CSA B483.1.



Chem-Tech Series XP & XPV Pumps.
 See www.wqa.org for
 certification parameters.



Intertek
 9700150



Intertek
 9700150

Chem-Tech XP Series Selection Guide

	Pump Size	Flow	Pressure Rating - PSI (Bar)				Tube Size	Speed (RPM)
			Single Head Options			Duplex		
			'H' Tube	'L' Tube	'F' Tube	'L' Tube		
MODELS:	XP004	4 GPD (0.6 LPH)				80 (5.5)	2	30
	XP007	7 GPD (1.1 LPH)	125 (8.6)	80 (5.5)	60 (4.1)'			50
	XP009	9 GPD (1.4 LPH)				70 (4.8)	3	30
	XP015	15 GPD (2.4 LPH)	110 (7.6)'	70 (4.8)	50 (3.4)'			50
	XP014	14 GPD (2.3 LPH)				50 (3.4)	4	30
	XP023	23 GPD (3.6 LPH)	100 (5.9)'	50 (3.4)	40 (2.8)'			50
	XP030	30 GPD (4.7 LPH)	80 (5.5)	40 (2.8)		40 (2.8)	6	30
	XP050	50 GPD (7.9 LPH)						50
	XP048	48 GPD (7.5 LPH)				25 (1.7)	8	30
	XP080	80 GPD (12.6 LPH)		25 (1.7)				50
ELECTRICAL:	L	115V, 60Hz						
	H	230V, 50/60Hz						
	R	230V, 50Hzwith Grounded Right Angle European Plug						
Note: 50Hz pumps will produce 5/6 of the rated flow								
DRIVE:	F	Fixed Rate, On / Off Only						
	A	Adjustable 20:1 Turndown, On / Off with Current Interrupter Timer						
	G	Duplex Head - Fixed Rate, On / Off Only, 'L' Tube						
	B	Duplex Head - Adjustable, On / Off with Current Interrupter Timer, 'L' Tube						
	1	Pulse Input, .1 to 1 Second Timer						
	2	Pulse Input, .2 to 10 Second Timer						
	3	Pulse Input, 1 to 60 Second Timer						
	4	Dry Contact Input - Fixed Rate Pump						
	5	Dry Contact Input - Adjustable Pump						
	6	Flow Switch Activated with 3/4" NPT Flow Switch - Fixed Rate Pump						
TUBING:	7	Flow Switch Activated with 3/4" NPT Flow Switch - Adjustable Rate Pump						
	8	7 Day - 8 Event Electronic Timer - Fixed Rate Pump						
SYSTEM:	X	Pump Only						
	1	15 Gallon Tank System						
	3	35 Gallon Tank System						
	T	15 Gallon ITS System						

A completed model should look like "XP030LFLX"

CHEM-TECH Peristaltic Pumps

Series XPV

The Chem-Tech XPV Series pump combines the best in variable speed peristaltic pump technology with state of the art control electronics, providing you with unparalleled performance, control and value. The XPV represents the leading edge of microprocessor performance management, giving you many choices of input signal types, and onboard timer programs to customize this pump to any application. Of course, this pump is as rugged and reliable as it's fixed speed siblings, the XPF and the XPA

Key Features

- Variable Speed
- Fully Scalable 4-20mA Input
- Hall Effect Input
- Contacting Head Water Meter
- Flow Totalization
- Cycle Timer
- Daily Timer
- LCD Display



Tested and Certified by WQA
against NSF/ANSI 61 & CSA B483.1.



Chem-Tech Series XP & XPV Pumps.
See www.wqa.org for
certification parameters.



Chem-Tech Series XPV uses Chem-Tech Large Pump Discount Structure

Chem-Tech XPV Series Selection Guide								XP ____	—	—	—	—
MODELS:	Pump Size	Flow	Pressure Rating - PSI (Bar)				Tube Size	Speed (RPM)				
			Single Head Options			Duplex						
			'H' Tube	'L' Tube	'F' Tube	'L' Tube						
	XP008	8 GPD (1.3 LPH)	125 (8.6)	80 (5.5)	60 (4.1)	80 (5.5)	2	65 Max.				
XP017	17 GPD (2.7 LPH)	110 (7.6)	70 (4.8)	50 (3.4) ¹	70 (4.8)	3						
XP033	33 GPD (5.2 LPH)	100 (5.9)	50 (3.4)	40 (2.8) ²	50 (3.4)	4						
	XP055	55 GPD (8.7 LPH)	80 (5.5)	40 (2.8)		40 (2.8)	6	60 Max.				
	XP100	100 GPD (15.8 LPH)		25 (1.7)		25 (1.7)	8					
ELECTRICAL:	L	115V, 60Hz										
	H	230V, 60/50Hz										
	R	230V, 60/50Hz with Grounded Right Angle European Plug										
DRIVE:	V	Variable Input Control with I/O Cable										
	G	Duplex Head - Low Pressure Norprene with 1/4" Tube Fitting										
TUBING:	L	Low Pressure Norprene with 1/4" Tube Fittings										
	H	High Pressure Norprene with 1/4" Tube Fittings										
	3	Low Pressure Norprene with 3/8" Tube Fittings										
	4	High Pressure Norprene with 3/8" Tube Fittings										
	F	Fluran, Acid resistant tubing with 1/4" Tube Fittings (Doesnot include strainer & injector accessories)										
	G	Fluran, Acid resistant tubing with 3/8" Tube Fittings (Doesnot include strainer & injector accessories)										
SYSTEM:	X	Pump Only										
	1	15 Gallon Tank System										
	3	35 Gallon Tank System										
	T	15 Gallon ITS System										
A completed model should look like "XP033LVLX"												

¹Max flow rate is 15 GPD (2.4 LPH) with Fluran tube.

²Max flow rate is 28 GPD (4.4 LPH) with Fluran tube.

XP & XPV Series Parts	
KOPkits - Low Pressure	
Part Number	Description
NCKA2LPAP1	KOPkit XP - 004 / 007 / 008
NCKA3LPAP1	KOPkit XP - 009 / 015 / 017
NCKA4LPAP1	KOPkit XP - 023 / 033 / 014
NCKA6LPAP1	KOPkit XP - 030 / 050 / 055
NCKA8LPAP1	KOPkit XP - 048 / 080 / 100
KOPkits - High Pressure	
Part Number	Description
NCKA2HPAP1	KOPkit XP - 004 / 007 / 008
NCKA3HPAP1	KOPkit XP - 009 / 015 / 017
NCKA4HPAP1	KOPkit XP - 023 / 033 / 014
NCKA6HPAP1	KOPkit XP - 030 / 055
NCKA24PAP1	KOPkit XP - 004 / 007 / 008 - 3/8"
NCKA34PAP1	KOPkit XP - 009 / 015 / 017 - 3/8"
NCKA44PAP1	KOPkit XP - 033 / 014 / 023 - 3/8"
NCKA64PAP1	KOPkit XP - 030 / 055 - 3/8"
KOPkits - Low Pressure 3/8"	
Part Number	Description
NCKA43PAP1	KOPkit XP - 023 / 033 / 014
NCKA63PAP1	KOPkit XP - 030 / 050 / 055
KOPkits - Duplex Low Pressure	
Part Number	Description
NCKD2LPAP1	KOPkit XP - 004 / 008
NCKD3LPAP1	KOPkit XP - 009 / 017
NCKD4LPAP1	KOPkit XP - 033 / 014
NCKD6LPAP1	KOPkit XP - 030 / 055
NCKD8LPAP1	KOPkit XP - 048 / 100
KOPkits - Duplex High Pressure	
Part Number	Description
NCKD2LPAP1	KOPkit XP - 004 / 008
NCKD3HPAP1	KOPkit XP - 009 / 017
NCKD4HPAP1	KOPkit XP - 033 / 014
NCKD6HPAP1	KOPkit XP - 030 / 055

TUBE KITS	
Low Pressure 1/4" Tube Fittings	
Part Number	Description
NC90XX2LPA-XXXXX	Kit, Tube Assy - 004 / 007 / 008
NC90XX3LPA-XXXXX	Kit, Tube Assy - 009 / 015 / 017
NC90XX4LPA-XXXXX	Kit, Tube Assy - 023 / 033 / 014
NC90XX6LPA-XXXXX	Kit, Tube Assy - 030 / 050 / 055
NC90XX8LPA-XXXXX	Kit, Tube Assy - 048 / 080 / 100
High Pressure 1/4" Tube Fittings	
Part Number	Description
NC90XX2HPA-XXXXX	Kit, Tube Assy - 004 / 007 / 008
NC90XX3HPA-XXXXX	Kit, Tube Assy - 009 / 015 / 017
NC90XX4HPA-XXXXX	Kit, Tube Assy - 023 / 033 / 014
NC90XX6HPA-XXXXX	Kit, Tube Assy - 030 / 055
Low Pressure 3/8" Tube Fittings	
Part Number	Description
NC90XX23PA-XXXXX	Kit, Tube Assy - 004 / 007 / 008
NC90XX33PA-XXXXX	Kit, Tube Assy - 009 / 015 / 017
NC90XX43PA-XXXXX	Kit, Tube Assy - 023 / 033 / 014
NC90XX63PA-XXXXX	Kit, Tube Assy - 030 / 050 / 055
NC90XX83PA-XXXXX	Kit, Tube Assy - 048 / 080 / 100
High Pressure 3/8" Tube Fittings	
Part Number	Description
NC90XX24PA-XXXXX	Kit, Tube Assy - 004 / 007 / 008
NC90XX34PA-XXXXX	Kit, Tube Assy - 009 / 015 / 017
NC90XX44PA-XXXXX	Kit, Tube Assy - 023 / 033 / 014
NC90XX64PA-XXXXX	Kit, Tube Assy - 030 / 055
Fluran 1/4" Tubing Fittings	
Part Number	Description
NC90XX2FPA-XXXXX	Kit, Tube Assy - 004 / 007 / 008
NC90XX3FPA-XXXXX	Kit, Tube Assy - 009 / 015 / 017
NC90XX4FPA-XXXXX	Kit, Tube Assy - 023 / 033 / 014
Fluran 3/8" Tubing Fittings	
Part Number	Description
NC90XX2GPA-XXXXX	Kit, Tube Assy - 004 / 007 / 008
NC90XX3GPA-XXXXX	Kit, Tube Assy - 009 / 015 / 017
NC90XX4GPA-XXXXX	Kit, Tube Assy - 023 / 033 / 014

XPV Series Parts	
Part Number	Description
J63006	Drive Motor, Variable Speed
J63115	Fuse Kit, Variable Speed

Parts			
Part Number	Description	Part Number	Description
J63051	Access. Kit, PVC/VTN, .25N	J63016	Gear Motor, 30RPM / 120V / 50-60Hz
J30257	Grease Kit	J63017	Gear Motor, 30RPM / 240V / 50-60Hz
J60609	Strainer Assembly w/o Valve	J63018	Gear Motor, 50RPM / 120V / 50-60Hz
J63002	Control Panel Cover (Clear)	J63019	Gear Motor, 50RPM / 240V / 50-60Hz
J63004	Rain Hood	J63023	Housing Assy, 100% Fixed Rate
J63007	Switch, On-Off	U8800712	Injection Valve Assembly
		NC82XX3LP1-XXXXX	Roller Assy For Size 2-6 Tubes
		NC82XX8LP1-XXXXX	Roller Assy For Size 8 Tube

CHEM-TECH Mechanical Diaphragm Pumps

Series Prime Performance

The Chem-Tech Prime Performance Series pumps have a specially designed degassing valve system for applications using off-gassing chemicals like sodium hypochlorite. Built upon motorized-diaphragm technology, the Prime Performance Series delivers dependable performance, extended longevity and consistent metering over long periods of time in a compact form.

A top-mounted, one-way vent valve assembly evacuates gas bubbles from the pump head, providing for reliable operation.



Standard Agency Listings		
Model	ETL	ETLsan
All 60Hz	X	X
All 50Hz		
Contact factory for alternate listings		

Contact factory for applicable agency approvals.



PRIME PERFORMANCE Selection Guide

MODELS:	015 = 15 gpd (2.34 lph) max pres.: 100 PSI (7 BAR)	024 = 24 gpd (3.78 lph) max pres.: 100 PSI (7 BAR)	030 = 30 gpd (4.72 lph) max pres.: 100 PSI (7 BAR)	068 = 68 gpd (10.72 lph) max pres.: 60 PSI (4 BAR)	100 = 100 gpd (15.76 lph) max pres.: 60 PSI (4 BAR)	X	-	-	-	A	-	-	-
ELECTRICAL:	XA = 115V, 60 Hz	XB = 230V, 50 Hz	XC = 230V, 60 Hz										
LIQUID END MATERIALS: Head, Fittings/ Diaph., Seats/ Balls	BAA = PVC / CSPE / Ceramic	BBA = PVC / Viton / Ceramic											
CONNECTION SIZES:	6 = Tubing .38" PE BLK Suction / .38" PE BLK Discharge / .38" PE BLK Return	8 = Tubing .38" PVC Suction / .38" PE Discharge / .38" PVC Return	7 = Tubing .50" PE BLK Suction / .50" PE BLK Discharge / .50" PE BLK Return	9 = Tubing .44" PVC Suction / .50" PE Discharge / .44" PVC Return									
SUFFIX CODES:	XXX = Standard	001 = Current Interrupter	15T = 15 gal tank w/ bulkhead for vent, level wand, safety cap & fasteners	35T = 35 gal tank w/ bulkhead for vent and fasteners									

A complete model should look like "X024-XA-BBA9XXX"

Pumps come with foot valve/strainer/weight, 4' of suction tubing, 4' of return tubing, 8' of discharge tubing, and injection/back pressure valve assembly.

CHEM-TECH KOPkits

PRIME PERFORMANCE KOPkit Selection Guide

PRODUCT DESIGNATOR:	KX100 = Chem-Tech Kopkit	KX100	-	-	A	-
LIQUID END MATERIALS: Head, Diaph., Seats & Balls	BAA = PVC / CSPE / Ceramic	BBA = PVC / Viton / Ceramic				
CONNECTION :	6 = Tubing .38" Suction / Discharge / Return	8 = Tubing .38" Suction / Discharge / Return	7 = Tubing .50" Suction / Discharge / Return	9 = Tubing .44" Suction & Return / .50" Discharge		

CHEM-TECH Mechanical Diaphragm Pumps

Series 100, 150

Series 100 Models - The preferred metering pump for water conditioning professionals around the world. Perfect for applications where economical, consistent performance is required. Capable of a wide range of flows, from less than 3 USgpd up to 30 USgpd and pressures up to 100 psig.

Series 150 Models - Built upon the same solid platform as the 100 Models, these units are capable of higher flowrates. With a range offering up to 100 USgpd, the Series 150 can meet the demands of larger applications. Maximum pressure is 60 psig.

Note: Standard Features do not add to the pump price.



Standard Agency Listings		
Model	ETL	ETLsan
All 60Hz	X	X
100-150 50Hz		
Contact factory for alternate listings		

Contact factory
for applicable
agency
approvals.



Chem-Tech Series 100, 150 Selection Guide

MODELS:	Series 100	
	X003	= 3 gpd (0.47 lph) max pres.: 100 PSI (7 BAR)
	X007	= 7 gpd (1.00 lph) max pres.: 100 PSI (7 BAR)
	X015	= 15 gpd (2.34 lph) max pres.: 100 PSI (7 BAR)
	X024	= 24 gpd (3.78 lph) max pres.: 100 PSI (7 BAR)
	X030	= 30 gpd (4.72 lph) max pres.: 100 PSI (7 BAR)
	Series 150	
	X068	= 68 gpd (10.72 lph) max pres.: 60 PSI (4 BAR)
	X100	= 100 gpd (15.76 lph) max pres.: 60 PSI (4 BAR)

ELECTRICAL:	XA	= 115V, 60 Hz
	XC	= 230V, 60 Hz

LIQUID END MATERIALS: Pump Head & Fittings/Seats & O-rings/Balls	AAA	= Clear PVC / CSPE / Ceramic
	AAB	= Clear PVC / CSPE / TFE
	ABA	= Clear PVC / Viton / Ceramic
	ABB	= Clear PVC / Viton / TFE
	ACA	= Clear PVC / TFE/Viton / Ceramic
	AHA	= Clear PVC / TFE/CSPE / Ceramic
	DAA	= PP / CSPE / Ceramic
	DAB	= PP / CSPE / TFE
	DBA	= PP / Viton / Ceramic
	DBB	= PP / Viton / TFE
	GFA	= Clear PVC / TFE / Ceramic (dbl)
	GF B	= Clear PVC / TFE / TFE (dbl)
	EFC	= 316SS / TFE / 316SS (dbl)

CONNECTION SIZES:	A	= Tubing .44" PVC Suction / .50" PE Discharge
	C	= Tubing .38" PVC Suction / .38" PE Discharge
	F	= Tubing .44" PVC Suction / .50" PE BLK Discharge
	S	= Tubing .38" PVC Suction / .38" PE BLK Discharge
	X w/ 316	= .25" FNPT Suction / .25" FNPT Discharge

SUFFIX CODES:	XXX	= Standard
	001	= Current Interrupter
	500*	= Five Function Valve
	520*	= Five Function Degas Valve
	ITS	= 15 gal ITS Tank System

* Not available in SS. Adder price is per head.

A completed model number should look like "X015-XA-BAAAXXX"



Chem-Tech KOPkit Selection Guide

PRODUCT DESIGNATOR:	KX100	= Chem-Tech Kopkit
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KX100

LIQUID END MATERIALS:

Head, Diaph., Seats & Balls

AAA	= Clear PVC / CSPE / Ceramic
AAB	= Clear PVC / CSPE / TFE
ABA	= Clear PVC / Viton / Ceramic
ABB	= Clear PVC / Viton / TFE
ACA	= Clear PVC / TFE/Viton / Ceramic
AHA	= Clear PVC / TFE/CSPE / Ceramic
BAA	= PVC / CSPE / Ceramic
BAB	= PVC / CSPE / TFE
BBA	= PVC / Viton / Ceramic
BBB	= PVC / Viton / TFE
BHA	= PVC / TFE/CSPE / Ceramic
DAA	= PP / CSPE / Ceramic
DAB	= PP / CSPE / TFE
DBA	= PP / Viton / Ceramic
DBB	= PP / Viton / TFE
GFA	= Clear PVC / TFE / Ceramic (dbl)
GFB	= Clear PVC / TFE / TFE (dbl)
EFC	= 316SS / TFE / 316SS (dbl)

CONNECTION :

A	= Tubing .44" PVC Suction / .50" PE Discharge
C	= Tubing .38" PVC Suction / .38" PE Discharge
F	= Tubing .44" PVC Suction / .50" PE BLK Discharge
S	= Tubing .38" PVC Suction / .38" PE BLK Discharge
X w/ 316	= .25" FNPT Suction / .25" FNPT Discharge

Series 100 KOPkits	
Part Number	Description
KX100-AAAA	KOPKIT, STD S100/150/200
KX100-AAAC	KOPKIT, STD S100/150/200
KX100-AAAE	KOPKIT, STD S100/150/200
KX100-AAAF	KOPKIT, STD S100/150/200
KX100-AAAS	KOPKIT, STD S100/150/200
KX100-AABA	KOPKIT, STD S100/150/200
KX100-AABC	KOPKIT, STD S100/150/200
KX100-AABF	KOPKIT, STD S100/150/200
KX100-ABAA	KOPKIT, STD S100/150/200
KX100-ABAC	KOPKIT, STD S100/150/200
KX100-ABAF	KOPKIT, STD S100/150/200
KX100-ABAS	KOPKIT, STD S100/150/200
KX100-ABBA	KOPKIT, STD S100/150/200
KX100-ABBC	KOPKIT, STD S100/150/200
KX100-ACAA	KOPKIT, STD S100/150/200
KX100-ACAC	KOPKIT, STD S100/150/200
KX100-AHAA	KOPKIT, STD S100/150/200
KX100-BAA6	KOPKIT, S100 DEGAS
KX100-BAA7	KOPKIT, S100 DEGAS
KX100-BAA8	KOPKIT, S100 DEGAS
KX100-BAA9	KOPKIT, S100 DEGAS
KX100-BAAA	KOPKIT, STD S100/150/200
KX100-BAAC	KOPKIT, STD S100/150/200
KX100-BABA	KOPKIT, STD S100/150/200
KX100-BABC	KOPKIT, S100/150/200
KX100-BABF	KOPKIT, STD S100/150/200
KX100-BBA6	KOPKIT, S100 DEGAS
KX100-BBA7	KOPKIT, S100 DEGAS
KX100-BBA8	KOPKIT, S100 DEGAS
KX100-BBA9	KOPKIT, S100 DEGAS
KX100-BBAA	KOPKIT, STD S100/150/200
KX100-BBAC	KOPKIT, STD S100/150/200
KX100-BBBC	KOPKIT, STD S100/150/200
KX100-BCAA	KOPKIT, STD S100/150/200
KX100-BCAC	KOPKIT, STD S100/150/200
KX100-BCBA	KOPKIT, STD S100/150/200
KX100-BHAA	KOPKIT, STD S100/150/200
KX100-BHAC	KOPKIT, STD S100/150/200
KX100-DAAA	KOPKIT, STD S100/150/200
KX100-DBAA	KOPKIT, STD S100/150/200
KX100-DBBA	KOPKIT, STD S100/150/200
KX100-DCAA	KOPKIT, STD S100/150/200
KX100-EFCX	KOPKIT, STD S100/150/200
KX100-GFAA	KOPKIT, STD S100/150/200
KX100-GFAC	KOPKIT, STD S100/150/200
KX100-GFAQ	KOPKIT, STD S100/150/200
KX100-GFBA	KOPKIT, STD S100/150/200

Series 100, 150, 100D, 150D And 200 Parts	
Part Number	Description
00006	Suction Tubing - 7/16" OD - Per ft Min 25 Ft
00007	Suction Tubing - 3/8" - Per ft Min 25 Ft
00008	Discharge Tubing - 1/2" OD - Per ft Min 25 Ft
00009	Discharge Tubing - 1/2" Black - Per ft Min 25 Ft
00010	Discharge Tubing - 3/8" - Per ft Min 25 Ft
00011	Discharge Tubing - 3/8" Black - Per ft Min 25 Ft
J30507	Kit, Bleed, Valve, PVC/HPY/ 3/8
J30509	Kit, Bleed, Valve, PVC/VTN/ 3/8
J30510	Kit, Bleed, Valve, PVC/TFE/ 3/8
J30511	Kit, Bleed, Valve, FPP/CSPE/ 3/8
J30513	Kit, Bleed, Valve, FPP/VTN/ 3/8
J30514	Kit, Bleed, Valve, FPP/TFE/ 3/8
J30515	Kit, Bleed, Valve, PVC/HPY/ 1/2
J30517	Kit, Bleed, Valve, PVC/VTN/ 1/2
J30518	Kit, Bleed, Valve, PVC/TFE/ 1/2
J30519	Kit, Bleed, Valve, FPP/CSPE/ 1/2
L3300V03-FPP	Kit, Bleed, Valve, FPP/VTN/ 1/2
J30522	Kit, Bleed, Valve, FPP/TFE/ 1/2
J60717	Foot Valve & Strainer Assy (PVD-CSPE-C-3/8")
J60729	Foot Valve & Strainer Assy (PVD-CSPE-C-1/2")
J60718	Foot Valve & Strainer Assy (PVD-VT-C-3/8")
J60730	Foot Valve & Strainer Assy (PVD-VT-C-1/2")
41657	Injection Valve Assy (PVC-CSPE-C-3/8")
J41658	Injection Valve Assy (PVC-CSPE-C-1/2")
41659	Injection Valve Assy (PP-VT-C-1/2")
41661	Injection Valve Assy (PVC-VT-C-1/2")
J41694	Injection Valve Assy (PVC-CSPE-C-1/2")
41695	Injection Valve Assy (PVC-VT-C-3/8")
41696	Injection Valve Assy (PP-VT-C-3/8")
41705	6" Ck Vlv Inj Assy (PVC-CSPE-C-3/8")
41707	6" Ck Vlv Inj Assy (PVC-VT-C-3/8")
41708	6" Ck Vlv Inj Assy (PVC-VT-C-1/2")
41710	6" Ck Vlv Inj Assy (PP-VT-C-1/2")
41795	Injection Valve Assy (PVC-CSPE-C-1/2" x 1/2" NPT)
J61222	Kit, 5 Function Valve incl L380DT03-PVD for Series 100/200
J61539	Kit, 5 Function Valve incl L380DT02-PVD for Series 100/200
J30503	Motor - 115V, 60 Hz, S200
J30504	Motor - 230V, 50 Hz, S200
J30505	Motor - 230V, 60 Hz, S200
32520	Motor - 7 SPM, 115V, 60 Hz, 003
32521	Motor - 13 SPM, 115V, 60 Hz, 007
32522	Motor - 25 SPM, 115V, 60 Hz, 015
32523	Motor - 51 SPM, 115V, 60 Hz, 024/030/068
32524	Motor - 7 SPM, 230V, 60 Hz, 003
32527	Motor - 51 SPM, 230V, 60 Hz, 024/030/068
32528	Motor - 7 SPM, 230V, 50 Hz, 003
32530	Motor - 25 SPM, 230V, 50 Hz, 015
32531	Motor - 51 SPM, 230V, 50 Hz, 024/030/068
32532	Motor - 70 SPM, 115V, 60 Hz, 100
32533	Motor - 70 SPM, 230V, 50 Hz, 100
32535	Motor - 70 SPM, 230V, 60 Hz, 100

CHEM-TECH Mechanical Diaphragm Pumps

Series 250 Parts		
Part Number	Description	
00006	Suction Tubing 7/16" OD	Per Ft Min 25 Feet
J00012	Polypropylene Tubing, 1/2" OD - Discharge	Per Ft Min 25 Feet
00013	Polypropylene Tubing, 1/2" OD-Discharge - Black	Per Ft Min 25 Feet
J24960	Coupling Nut - PVC 1/2"	
25681	Diaphragm Assembly - Model 253	
25682	Diaphragm Assembly - Model 254	
J27903	Gasket, TFE	
J28919	Head Assembly, PVC - Model 253 - 1/2"	
28920	Head Assembly, PVC - Model 254 - 1/2"	
32545	Motor, 115/230V, 50/60 Hz, TEFC	
34532	Oil Filler Plug with Cap	
37886	Diaphragm Shaft	
J41658	Injection Valve Assy (PVC-CSPE-C-1/2")	
J41667	Double Ball Check Valve Cart Assy (PVC 1/2") Suc.	
41668	Double Ball Check Valve Cart Assy (PVC 3/8") Disch	
J41669	Double Ball Check Valve Cart Assy (PVC 1/2") Disch	
J60729	Foot Valve & Strainer Assy (PVD-CSPE-C-1/2")	
J61516	Kit, Head Mounting Bolts (4 - J37005, 4 - J42020)	
J61518	Kit, Gasket TFE (4 - J27930)	

MEC-O-MATIC Peristaltic Pumps

Series Dolphin

- Exclusive quick-release, twist-off, clear polycarbonate, acid-resistant head to withstand the harshest environment.
- Self-lubricating chemical resistant roller assembly.
- Durable, long lasting tubing with no tube adjustment.
- Rugged and dependable – Heavy-duty shaded pole gearmotor with lifetime lubrication.
- Flexibility in feed rates - from .13 gallons to 97 gallons per day ... to meet the demands of the pool and spa Industry, and elsewhere.
- Agency approvals.



Tested and Certified by WQA
 against NSF/ANSI 61 & CSA B483.1.



Chem-Tech Series XP & XPV Pumps.
 See www.wqa.org for
 certification parameters.



Intertek
 9700150



Intertek
 9700150

Contact factory
 for applicable
 agency
 approvals.

Mec-O-Matic DOLPHIN Series Selection Guide

		UD__	-	__	-	__	U	XXX
MODELS:	10	= 13.0 gpd (2.05 lph) max pres.: 25 PSI (1.72 BAR)						
	50	= 60.0 gpd (9.46 lph) max pres.: 25 PSI (1.72 BAR)						
	75	= 97.0 gpd (15.30 lph) max pres.: 25 PSI (1.72 BAR)						
ELECTRICAL:	XA	= 115V, 60 Hz						
	XL	= Standard 230V, 50/60 Hz, used w/ Model 10 only						
	XB	= Standard 230V, 50 Hz, used w/ Models 50 & 75 only						
	XC	= Standard 230V, 60 Hz, used w/ Models 50 & 75 only						
LIQUID END MATERIALS:	LSA	= Norprene Tubing						
	LBA	= Viton Tubing						
CONNECTION SIZES:	U	= Tubing .25" I.D. X .44" O.D.						
SUFFIX CODES:	XXX	= Standard						

A completed model should look like "UD75-XA-LBAUXXX"

Junction Box option is available on 230V models at no additional charge. Contact the factory for model numbers.
 Shipping weight for Dolphin Pumps is 7 lbs.

Mec-O-Matic DOLPHIN KOPkit Selection Guide

		KUDXX	-	----
PRODUCT DESIGNATOR:	KUDXX	= Dolphin Kopkit		
LIQUID END MATERIALS:	LSAU	= Norprene Tubing CRM		
	LLAU	= Norprene Tubing BLK		
	LBAU	= Viton Tubing		

DOLPHIN Series KOPkits

Part Number	Description
KUDXX-LBAU	KOPKIT, STD UD10/50/75 LBAU
KUDXX-LLAU	KOPKIT, STD UD10/50/75 LLAU
KUDXX-LSAU	KOPKIT, STD UD10/50/75 LSAU

DOLPHIN Series Parts

Part Number	Description
J60552	Strainer Assembly w/o valve
U0818616	Gearmotor Assembly, 120V, 10 RPM - D10
U0818617	Gearmotor Assembly, 240V, 10 RPM - D10
U0818618	Gearmotor Assembly, 120V, 50 RPM - D50
U0818619	Gearmotor Assembly, 240V, 50 RPM - D50
U0818620	Gearmotor Assembly, 120V, 75 RPM - D75
U0818621	Gearmotor Assembly, 240V, 75 RPM - D75
U8800431	Tubing cut 1/4" X 15 ft. PE
U8800637	Tubing Replacement Kit (7/16" Norprene Crm)
U8800712	Injection Fitting
U8800740	Kit, Timer 120V (1 - U0818183, 1 - U0020522)
U8800741	Kit, Timer 240V (1 - U0818182, 1 - U0020522)
U8800743	Kit, Collars (2 - U0817123)
U8800758	Kit, Pump Head Tubing (Viton)

MEC-O-MATIC Peristaltic Pumps

Series VSP

- Versatile - The VSP is engineered to dispense low volumes of chemicals at exacting amounts.
- Reliable – Heavy-duty gearmotor... fieldtested, proven peristaltic head... durable chemical-resistant housing.
- Low Maintenance – Self-lubricating roller assembly... NO tube adjustment required... exclusive quick-release, twist-off head.
- Guaranteed – Full one year warranty on dispenser.



Mec-O-Matic VSP Series Selection Guide

		UVSP	--	---	U	XXX
MODELS:	12	= 12.0 gpd (1.89 lph) max pres.: 25 PSI (1.72 BAR)				
	20	= 20.0 gpd (3.15 lph) max pres.: 25 PSI (1.72 BAR)				
ELECTRICAL:	XP	= 24VAC				
	XR	= 120V 50/60 Hz				
LIQUID END MATERIALS:	LLA	= Norprene Tubing				
	LBA	= Viton Tubing				
CONNECTION SIZES:	U	= Tubing .19" I.D. X .38" O.D. used w/ UVSP12 only				
	U	= Tubing .25" I.D. X .44" O.D. used w/ UVSP20 only				
SUFFIX CODES:	XXX	= Standard				

A completed model should look like "UVSP12XRLLAUXXX"

Shipping weight for all VSP pumps is 6 lbs.

VSP Series KOPkits

Part Number	Description
KUD12-LLAU	KOPKIT, STD VSP12 LLAU

VSP Series Parts

Part Number	Description
J60552	Strainer w/o Valve
U0817122	Collar VSP - 12
U0817123	Collar VSP - 20
U0817742	Hose Clamps
U0818305	Printed Circuit Board 24V
U0818306	Printed Circuit Board 120V
U0818463	Fuse 24V, 1/2 Amp
U0818464	Fuse 120V, 1/8 Amp
U0818667	Gearmotor Kit
U7013397	Tube Kit VSP - 20
U8800431	15" X 1/4" Poly Tubing
U8800651	Pump Head Kit
U8800700	Tube Kit VSP - 12
U8800712	IPF Auto Clean Injection Fitting
U8800739	Kit, Motor Mount (2 - U0818666, 2 - 32946, 2 - U0811297)

MEC-O-MATIC Peristaltic Pumps

Series 2400T Grease Trap Dispenser

- Capable of Dispensing Low Volumes
- Programmable
- Simple Installation
- Prime Push Button for Quick Start-Up
- Quick Release Twist Off Head
- Built-In Timer
- No Tube Adjustment Needed
- Self Lubricating Roller Assembly



Contact factory
for applicable
agency
approvals.

Mec-O-Matic 2400T Series Selection Guide

MODELS:	UT24 = 2.5 gpd (0.39 lph) max pres.: 25 PSI (1.72 BAR) used w/ 2400T & 2400T PLUS	UT24	---	---	---	---
ELECTRICAL:	-XA = 115V, 60 Hz used w/ 2400T only PXA = 115V, 60 Hz used w/ 2400T PLUS only					
LIQUID END MATERIALS:	LT = Silicone Tubing LB = Viton Tubing					
CONNECTION	AU = Tubing .125" I.D. X .31" O.D.					
SUFFIX CODES:	XXX = Standard					

A completed model should look like "UT24-XA-LBAUXXX"

- 2400T comes standard with 24 hour mechanical timer. 2400T plus utilizes a 7 day, 8 event programmable timer
- Shipping weight is 7.5 lbs.

2400T & T PLUS Series Parts

Part Number	Description
J60552	Strainer Assembly w/o Valve
U0817131	Tubing Assy 5/16" X 9" Silicone
U0817742	Hose Clamp
U0817942	Screw 10 - 30 X .688", Motor Mount
U0817952	Timer (2400T)
U0818602	Gearmotor Assembly
L9710800-000	Timer (2400T Plus)
U8800431	15' X 1/4" PE Tubing
U8800712	Injection Fitting
U8800753	Pump Head Assembly Kit (No Tubing)

2400T DC Series Parts

Part Number	Description
U0818881	12V DC Motor
U0818895	1/4" X 20' Tubing PE
U8800490	Injection Fitting
U8800637	7/16" Tubing Kit (Peristaltic)
U8800651	Pump Head Assembly Kit (No Tubing)
U8800700	3/8" Tubing Kit
U8800742	Kit, Pump Head Bearings (2 - U0817121)