

pulsafeeder.com

Product List



Metering Pumps and Control Systems

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DUE TO CONTINUOUS IMPROVEMENT OF OUR PRODUCTS, WE RESERVE THE RIGHT TO UPDATE THE INFORMATION CONTAINED IN THIS CATALOG WITHOUT NOTICE.

IMPORTANT INFORMATION WHEN PLACING AN ORDER

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

Pulsafeeder Incorporated—A Unit of IDEX Corporation Standard Product Operations Main Office & Manufacturing Facility

27101 Airport Road, Punta Gorda, Florida, USA 33982-2462 E-Mail: pulsaspo.cs@idexcorp.com Telephone: 800-333-6677 or 941-575-3800 Fax: 800-456-4085 or 941-575-4085 www.pulsatron.com

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

only to Address

- 3) Orders are immediately entered into the computer upon receipt. Our ability to change in house orders is limited. Please be certain your orders are complete when placed.
- 4) For assistance or to order a "special" pump model not available in the price schedule, please contact our Technical Support Department.
- 5) Orders are assigned standard lead times based on the size of the order and the time required to manufacture the particular products. Requests to expedite orders may be routed through our Customer Service Department.
- 6) 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.
- 7) Other Locations:

PULSAFEEDER (Knight UK Limited)

15 Brunel Centre Newton Road

Crawley, West Sussex, England, RH10 9YU

Tel: +44 80022102210 Fax: +44 80044104410

Latin America (Office Only)

Hegel 153-602, Colonia Polanco, 11560 Mexico, D.F., Mexico Tel: 52-555-255-1357

Fax: 52-555-255-1356

Far East (Office Only)

Room 3403, South Tower, Hong Kong Plaza

No 283 Huai Hai Zhong Road Shanghai 200021, China Tel: 86-2163906367

Fax: 86-2163863338

IDEX India Private Ltd.

202 Matharu Arcade

32, Subhash Road, Vile Parie (East),

Mumbai-400 057, India Tel: 91-22-66976631 Fax: 91-22-66976633

- 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 AND MASTERCARD.
- ONE PERCENT DISCOUNT AVAILABLE FOR PAYMENT WITHIN 10 DAYS OF INVOICE DATE FOR ACCOUNTS THAT ARE CURRENT.
- PAYMENT BY CREDIT CARD WILL NOT RECEIVE AN ADDITIONAL DISCOUNT.
- All prices are F.O.B. Punta Gorda, FL or factory warehouse location.
- Custom product sales are final.
- Charges for export documentation apply.
- Expediting fees may apply.
- Fees for changes to or cancellation of orders may apply.
- Minimum factory order of \$50.
- Possession of price schedule does not guarantee right to purchase direct from factory.

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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 frequence 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 /	Allows the pump stroke to be controlled by an external dry contact closure, such as is provided by a Water
Water Meter	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 w ith 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.
Pow er 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 Time	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.
Conductivity Contro	Includes a conductivity controller built into the pump.
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.

	Flow Capacity Pressure				Turn Down	4-20 mA	20-4 mA	External Pace And Stop	External Pace Or Stop Function	Touch Pad	Digital Display	Signal/Power Relay	Alarm Signals	Timed Sequences	Programmable Timer	Hall Effect Input	Conductivity Control	Bleed Relay	Timer Control	Flow Control
Series	GPH	LPH	PSIG	BAR	Ratio	4-	7	ΘĀ	шS	Ţ	۵	S R	¥	= ×	P.	Ĩ	ŏŏ	В	ΙĮ	됴
MP	0.13 to 21	0.50 to	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	30 to 300	2.0 to 21	100:1	0		0												
HV	0.50 to 10	1.9 to 37.9	80 to 100	5.6 to 17	100:1	0														
Е	0.13 to 25	0.50 to	20 to 300	1.3 to 21	100:1															
E-DC	0.25 to 1.85	0.90 to 7.0	100 to 150	7 to 10	100:1															
D	0.25 to 2	0.90 to 7.6	50 to 250	3.3 to 17	100:1			S		S	S									S
A Plus	0.25 to 2	0.90 to 7.6	50 to 250	3.3 to 17	100:1				0											
C Plus	0.25 to 1.25	0.90 to 4.7	80	5.6	100:1				0											
С	0.25 to 1.25	0.90 to 4.7	80	5.6	10:1				0											
CW	0.25 to 1.25	0.90 to 4.7	100 to 150	7 to 10	100:1			S		S	S					S	S	S	S	S
CL	0.25 to 1.25	0.90 to 4.7	100 to 150	7 to 10	100:1					S	S						S	S	S	S
WT	0.25 to 1.25	0.90 to 4.7	100 to 150	7 to 10	100:1			S		S	S					S		S		S
ET	0.21 to 2	0.80 to	20 to 250	1.3 to 17	100:1			S						S						
T7	0.50 to 2	1.9 to 7.6	100	7	10:1										S					

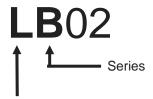


Once you have selected the appropriate Series, you must configure the model so that it is built with the features you desire. The Configuration Guide associated with each Series will present the most popular selections. Select one code from each category to build up a complete model string.

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.

Model Selection:

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



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

LB02

Flow/Pressure Code

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.

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.

Series Code De	esignator
Series MP	М
Series E Plus	Р
Series HV	V
Series E	E
Series E-DC	S
Series D	F
Series A Plus	В
Series C Plus	D
Series C & T7	С
Series CW	W
Series CL	L
Series WT	Q
Series ET	Т



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.



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 breads 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.

	-	sation.com for a complete listing.
Р	ULS	SAtron Wet-End Code Selection
		ппп
Hea	d & F	Fittings - - -
A	=	316 Stainless Steel (All models except H8)
lκ	=	PVDF (Kynar) (Consult factory for J7, H8 models)
P	=	GFPPL (Polypropylene)
ΙV	=	PVC (Poly Vinyl Chloride) (for models rated
		< 150 psi excluding K7, H7, H8)
w	=	PVC (for models > 150 psi and K7, H7, H8)
Sea	ts	
H	=	CSPE
T	=	TFE (not available w ith TFE ball over 150 psi)
٧	=	Viton (150 psi max.)
Ball		
	5	
c	=	Ceramic
H	=	Alloy C (Hastelloy)
S	=	316 Stainless Steel
llт	=	TFE (not available with TFE seat over 150 psi)

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

Chemical Compatibility C	hart
	Liquid End
Chemical	Code
ACETIC ACID, 5 - 10%	PHC
ALUMINUM SULFATE	VHC
AMMONIA, 10%	PHC
BROMINE	KTC
CALCIUM HY POCHLORITE	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 A CID, 20%	PTT
HY DROGEN PEROXIDE, 0 - 30%	VVC
LACTIC ACID	PTC
NITRIC A CID, 0 - 20%	PVC
PHOSPHORIC A CID, 0 - 100%	KTC
POTA SSIUM CHLORIDE	PTC
POTA SSIUM PERMANGANATE	PTC
SODIUM BI-CARBONATE	PTC
SODIUM BI-SULFATE	PTC
SODIUM BI-SULFITE	PTC
SODIUM CARBONATE	PTC
SODIUM HYDROXIDE, 0 - 50%	PHC
SODIUM HY POCHLORITE	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

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 alot 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.

					Connection Cod	les	
Code	Connect Type	Suction	Discharge	Spring	GPH Flow Limitations	Viscosity	Other Factors
2	Piping	.25" FNPT	.25" FNPT		0 - 1.88	1000 up to 3000 cps w / SS balls	No Bleed Valve
4	Piping	.25" FNPT	.25" FNPT		1.63 - 10	1000 up to 3000 cps w / SS balls	No Bleed Valve
6	Piping	.25" FNPT	.25" FNPT	Yes	Up to 10	less than 10,000 cps	No Bleed Valve
8	Piping	.50" FNPT	.50" FNPT	Yes	Up to 25	less than 10,000 cps	No Bleed Valve
С	Piping	.50" FNPT	.50" FNPT		25	1000 up to 3000 cps w / SS balls	No Bleed Valve
G	Piping	.25" FNPT	.25" FNPT	Yes	0 - 1.88	1000 up to 3000 cps w / SS balls	No Bleed Valve
\Box	Piping	.50" MNPT	.50" MNPT	Yes	Up to 10	less than 10,000 cps	No Bleed Valve
L	Piping	.50" MNPT	.50" MNPT		0 - 1.88	1000 up to 3000 cps w / SS balls	No Bleed Valve
Х	Piping	.50" MNPT	.50" MNPT		1.63 - 10	1000 up to 3000 cps w / SS balls	No Bleed Valve
1	Tubing	.25" x .38"	.25" x .38"		0 - 1.88	1000 up to 3000 cps w / SS balls	
3	Tubing	.38" x .50"	.38" x .50"		1.63 - 10	1000 up to 3000 cps w / SS balls	
5	Tubing	.50" x .75"	.38" x .50"	Yes	Up to 10	less than 10,000 cps	
7	Tubing	.50" x .75"	.50" FNPT	Yes	Up to 25	less than 10,000 cps	No Bleed Valve
9	Tubing	.25" x .38"	.25" x .38"	Yes	0 - 1.88	1000 up to 3000 cps w/SS balls	Degas Head/No Bleed Valve
Α	Tubing	.38" x .50"	.38" x .50"		0 - 1.88	1000 up to 3000 cps w / SS balls	
В	Tubing	.50" x .75"	.50" x .75"		25	1000 up to 3000 cps w / SS balls	No Bleed Valve
D	Tubing	.25" x .38"	.25" x .38"	Yes	0 - 1.88	1000 up to 3000 cps w / SS balls	
E	Tubing	.38" x .50"	.38" x .50"	Yes	0 - 1.88	1000 up to 3000 cps w / SS balls	
F	Tubing	.38" x .50"	.38" x .50"	Yes	1.63 - 10	1000 up to 3000 cps w / SS balls	Not Available In PVDF
Н	Tubing	.25" x .38"	.25" x .38"		1.63 - 10	1000 up to 3000 cps w / SS balls	
J	Tubing	.25" x .38"	.25" x .38"		0 - 1.04	1000 up to 3000 cps w / SS balls	
K	Tubing	.50" x .75"	.50" x .75"	Yes	1.88 - 25 (<50 psi)	less than 10,000 cps	No Bleed Valve
					LPH Flow Limitations		
M	Piping	G 1/2 A	G 1/2 A		6.15 - 37.85	1000 up to 3000 cps w/SS balls	
R	Piping	G 1/2 A	G 1/2 A		0 - 7.10	1000 up to 3000 cps w / SS balls	
N	Tubing	4 x 10 mm	4 x 10 mm		0 - 7.10	1000 up to 3000 cps w / SS balls	
Р	Tubing	4 x 6 mm	4 x 6 mm		0 - 3.94	1000 up to 3000 cps w / SS balls	-
Q	Tubing	_	10 x 14 mm		6.15 - 37.85	1000 up to 3000 cps w / SS balls	
S	Tubing	6 x 10 mm	6 x 10 mm		> 18.93	1000 up to 3000 cps w / SS balls	
Т	Tubing	6 x 10 mm	6 x 10 mm		0 - 7.10	1000 up to 3000 cps w / SS balls	Degas Head/No Bleed Valve
U	Tubing	6 x 10 mm	6 x 10 mm		0 - 7.10	1000 up to 3000 cps w / SS balls	
V	Tubing	12 x 19 mm	12 x 19 mm		> 29.96	1000 up to 3000 cps w / SS balls	No Bleed Valve
W	Tubing				6.15 - 37.85	1000 up to 3000 cps w / SS balls	
Υ	Tubing	6 x 12 mm	6 x 12 mm		0 - 7.10	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.

Sensor/Flow Options (Models D,

CL, CW & WT Only):

The Series D, CL, CW and WT have optional features that are covered by two additional digits in the Model Selection.

Series D:

LF02SA-PTC1-1A Flow Switch Option Electronic Connection Option

These selections are explained for each model in the Configuration Guide. Series CL, CW & WT:

LW02SA-PTC1-2A

Flow Switch/Assembly Option
Sensor Option

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

Suffix Code:

LW02SA-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.

$\underline{CZXXX} = CE Approval$

This suffix code tells us that you require CE Approval on the pump you are ordering. This suffix code is five 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 (shown below), the suffix code would be CZ500.

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.

<u>130</u> = PVDF Tubing

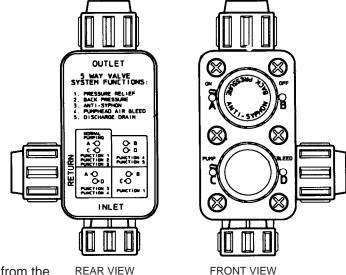
This suffix code will replace the standard pump tubing with PVDF Tubing.

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 Flouride (PVDF)

Diaphragm TFE faced CSPE

O-Rings TFE

Hardware 18-8 Stainless Steel (Recessed)

Maximum Operating

Pressure: 300 PSI/21 BAR (except PVC)

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.



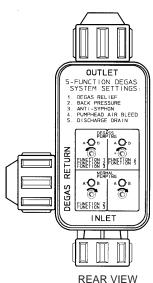
Selection Guide cont'd.

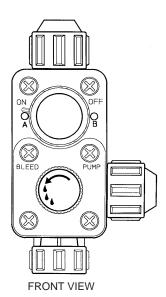
520 = DG/5FV Five Function Valve with De-Gas

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** Viton or CSPE

Hardware 18-8 Stainless Steel (Recessed)

Maximum Flow: 10 GPH (37.85 LPH)

Minimum Flow: 3 GPD (.47LPH)

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

½" (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, LT, and LE: H4, H5, H6, H7, J7, H8, K7 models) If you require a different type or size tank, please refer to our accessory price book.

PUISAtron®

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.





Pressure and Flow Rate Capacity

1 1000		aiia		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ato	Oup	uon	· y												
MODEI	_	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" FNP	T									FNPT 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

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 Backilght

LED Indicator Lights, Panel Mount: Power On - Green

Pulsing - Green Flashing

Stop - Red

Stroke Frequency Max SPM: 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

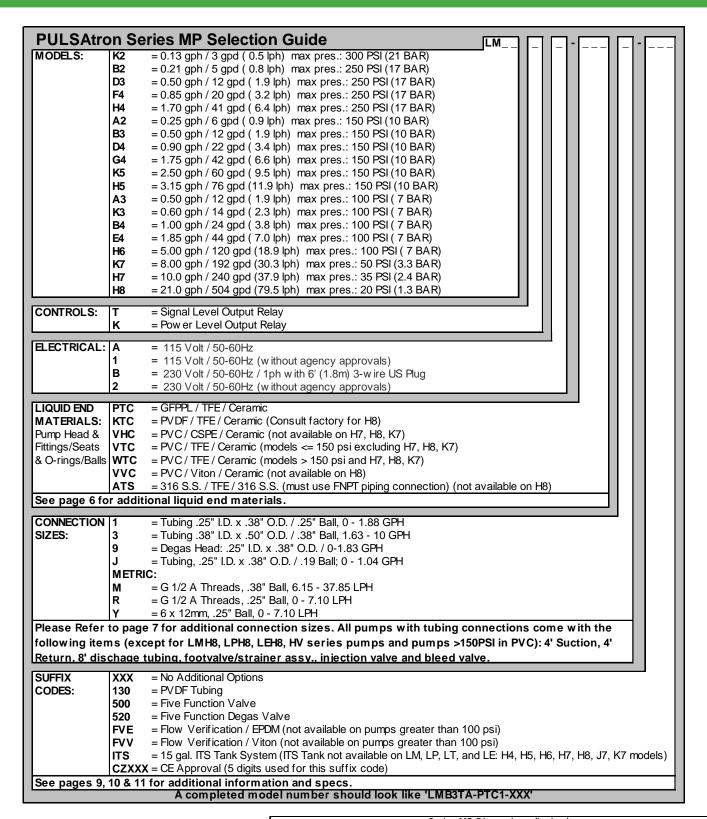
Engineering Data

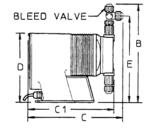
Power Input: 115 VAC/50-60 HZ/1 ph

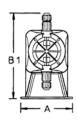
230 VAC/50-60 HZ/1 ph

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







						Ser	ies N	1P Dim	ension	s (ind	ches)						
Model No.	Α	В	B1	С	C1	D	Ε	Shpg Wt	Model No.	Α	В	B1	С	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	-	1.5	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	LMH/	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	1	7.5	9.2	15	LMK2	5.4	10.3	-	10.8	-	7.5	8.9	13
LMD4	5.4	10.6	-	11.2	1	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./	-	7.5	9.5	18
LMF4	5.4	10.6	-	11.7	-	7.5	9.2	18	LMK/	6.1	11.7	-	11.2	-	8.2	10.3	21
LMG4		10.6	-	11.7	1	7.5	9.2	18									

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

PUISAtron®

Electronic Metering Pumps

Series E PLUS

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.
- 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).







Pressure and Flow Rate Capacity

MODE	L	LPK2	LPB2	LPA2	LPD3	LPB3	LPA3	LPK3	LPF4	LPD4	LPB4	LPH4	LPG4	LPE4	LPK5	LPH5	LPH6	LPK7	LPH7	LPJ7	LPH8
Capacity	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	5.00	8.00	10.00	10.00	25.00
nominal	GPD	3	5	6	12	12	12	14	20	22	24	41	42	44	60	76	120	192	240	240	600
(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	9.5	11.9	18.9	30.3	37.9	37.9	94.6
Pressure	PSIG	300	250	150	250	150	100	100	250	150	100	250	150	100	150	150	100	50	35	80	30
(max.)	BAR	21	17	10	17	10	7	7	17	10	7	17	10	7	10	10	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 ID X 3/4" OD (LPH8 ONLY)							
	Piping						1.	/4" FNP	PΤ									/4" FNF /2" FNF			

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

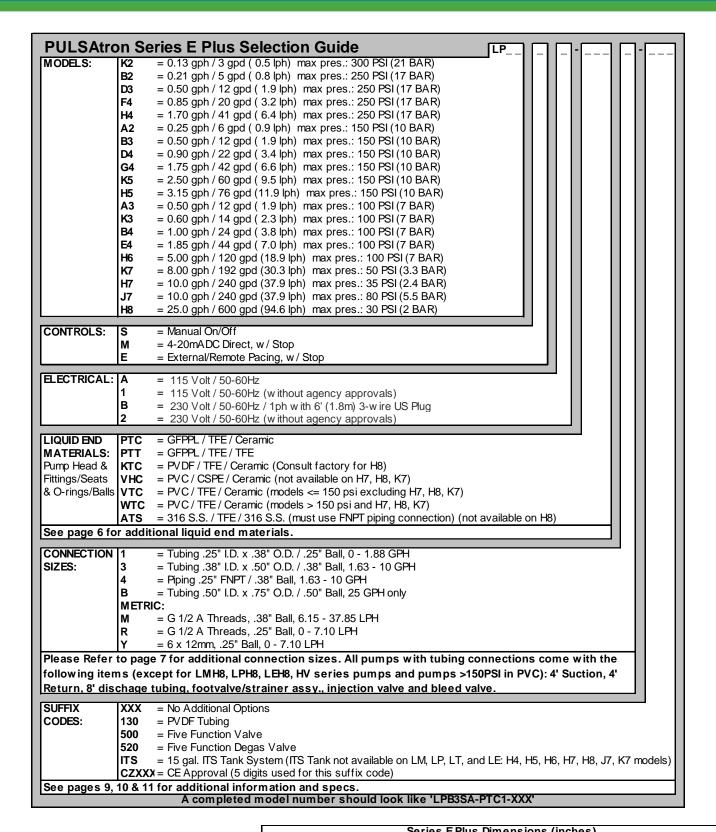
ball checks. See Selection Guide for proper connection. Stroke Frequency Max SPM:

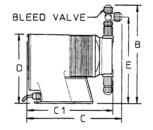
Stroke Frequency Turn-Down Ratio: 10:1 Stroke Length Turn-Down Ratio: 10:1

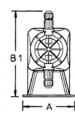
Power Input: 115 VAC/50-60 HZ/1 ph 230 VAC/50-60 HZ/1 ph

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







					3	erie	SE	Plus D	mensic	ons ((inch	es)					
Model No.	Α	В	B1	С	C1	D	Е	Shpg Wt	Model No.	Α	В	B1	С	C1	D	E	Shpg Wt
LPA2	5	10	-	11	-	8	9	13	LPH4	6	11	-	11	-	8	9.5	21
LPA3	5	11	-	11	-	8	9	13	LPH5	6	11	-	11	-	8	9.9	21
LPB2	5	10	-	11	-	8	9	13	LPH6	6	11	-	12	-	8	9.9	21
LPB3	5	11	-	11	-	8	9	13	LPH7	6	12	-	12	-	8	10	21
LPB4	5	11	-	11	-	8	9	13	LPH8*	6	-	11	-	11	8	-	26
LPD3	5	11	-	11	-	8	9	15	LPK2	5	10	-	11	-	8	8.9	13
LPD4	5	11	-	11	-	8	9	15	LPK3	5	11	-	11	-	8	9.2	13
LPE4	5	11	-	11	-	8	9	15	LPK5	5	11	-	12	-	8	9.5	18
LPF4	5	11	-	12	-	8	9	18	LPK7	6	12	-	11	-	8	10	21
LPG4	5	11	-	12	-	8	9	18	LPJ7	6	10	-	11	-	-	-	21
	NO	TE: Ind	ches	X 2.	54 =	cm/	* the	LPH8 i	s design	ed w	ithou	t a ble	ed va	alve av	vailal		

PUISAtron®

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.







Pressure and Flow Rate Capacity

MODEL	-	LVB3	LVF4	LVG4	LVG5	LVH7						
Capacity	GPH	0.50	1.00	2.00	4.00	10.00						
nominal	GPD	12	24	48	96	240						
(max.)	LPH	1.9	3.8	7.6	15.1	37.9						
Pressure	PSIG	150	150	110	110	80						
(max.)	BAR	10	10	7	7	5.6						
Connections	Tubing	ng (S) .50" I.D. X .75" O.D38" I.D. X .50" OD (LVB3 & F4 only) (S & D) .50" I.D. X .75" O.D. (LVG4,G5 & H7 only)										

Engineering Data

Reproducibility: +/- 2% at maximum capacity

Viscosity Max CPS: 20,000 CPS

Stroke Frequency Max SPM: Stroke Frequency Turn-Down Ratio: 10:1 Stroke Length Turn-Down Ratio:

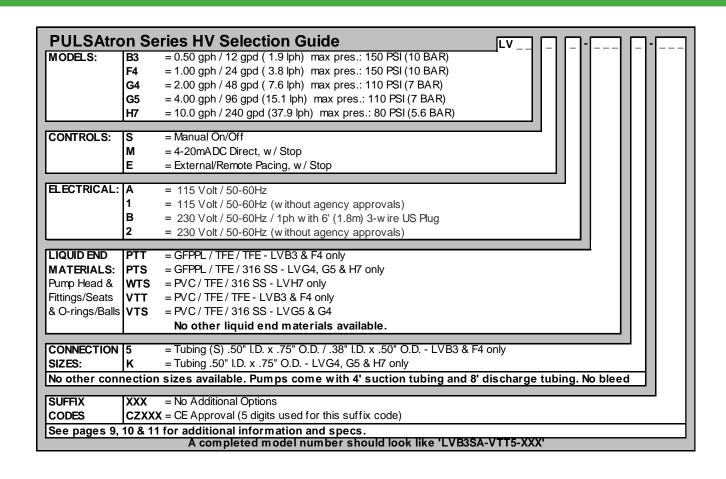
Power Input: 115 VAC/50-60 HZ/1 ph 230 VAC/50-60 HZ/1 ph

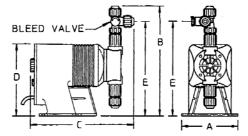
Average Current Draw:

@ 115 VAC; Amps: 1.0 Amps

@ 230 VAC; Amps: 0.5 Amps @ 230 VAC

Peak Input Power: 300 Watts Average Input Power @ Max SPM: 130 Watts





Series HV Dimensions (inches)										
Model	Model A B C D S									
No.	Α				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					

PUISATTON® 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).







Pressure and Flow Rate Capacity

MODE	L	LEK2	LE12	LE02	LE33	LE13	LE03	LEK3	LEF4	LE34	LE14	LEH4	LEG4	LE44	LEK5	LEH5	LEH6	LEK7	LEH7	LEJ7	LEH8
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	10.00	25.00
nominal	GPD	3	5	6	12	12	12	14	20	22	24	41	42	44	60	76	120	192	240	240	600
(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	9.5	11.9	18.9	30.3	37.9	37.9	94.6
Pressure	PSIG	300	250	150	250	150	100	100	250	150	100	250	150	100	150	150	100	50	35	80	30
(max.)	BAR	21	17	10	17	10	7	7	17	10	7	17	10	7	10	10	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											-	/4" FNP /2" FNP	•					

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 connec-

tion.

Stroke Frequency Max SPM: 125 Stroke Frequency Turn-Down Ratio: 10:1 Stroke Length Turn-Down Ratio:

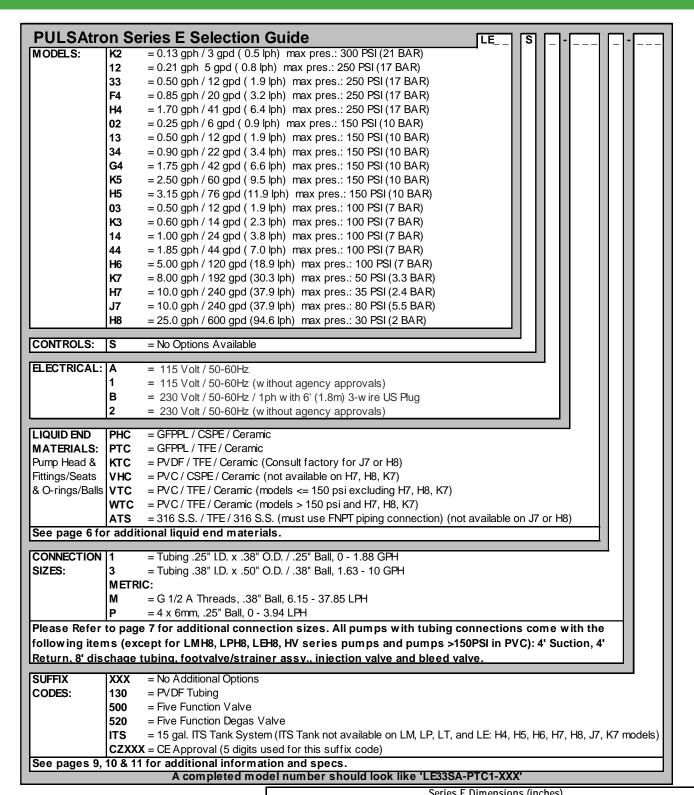
115 VAC/50-60 HZ/1 ph

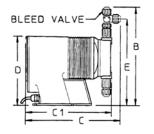
230 VAC/50-60 HZ/1 ph

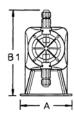
Average Current Draw:

Power Input:

@ 115VAC; Amps: 1.0 Amps @ 230 VAC; Amps: 0.5 Amps Peak Input Power: 300 Watts Average Input Power @ Max SPM: 130 Watts







	Series E Dillierisions (Inches)																
Model	Α	В	В1	С	C1	D	Е	Shpg	Model	Α	В	B1	С	C1	D	Е	Shpg
No.								Wt	No.								Wt
LE02	5	9.6	-	9.5	-	6.4	8.2	7	LEH4	6.2	10.9	-	11.2	-	8.2	9.5	18
LE03	5	9.8	-	9.5	-	6.4	8.4	7	LEH5	6.2	11.3	-	11.2	-	8.2	9.9	18
LE12	5	9.6	-	9.5	1	6.4	8.2	7	LEH6	6.2	11.3	-	11.2	-	8.2	9.9	18
LE13	5	9.8	-	9.5	-	6.4	8.4	7	LEH7	6.1	11.7	-	11.2	-	8.2	10.3	18
LE14	5	9.8	-	9.5	-	6.4	8.4	7	LEH8*	6.1	-	10.9	-	10.6	8.2	-	23
LE33	5.4	10.6	-	11.2	-	7.5	9.2	12	LEK2	5.4	10.3	-	10.8	-	7.5	8.9	10
LE34	5.4	10.6	-	11.2	-	7.5	9.2	12	LEK3	5.4	10.6	-	10.7	-	7.5	9.2	10
LE44	5.4	10.6	-	11.2	-	7.5	9.2	12	LEK5	5.4	10.9	-	11.7	-	7.5	9.5	15
LEF4	5.4	10.6	-	11.7	-	7.5	9.2	15	LEK7	6.1	11.7	-	11.2	-	8.2	10.3	18
LEG4	5.4	10.6	-	11.7	-	7.5	9.2	15	LEJ7	6.1	10.0	-	10.7	-	-	-	18

^{*} the LEH8 is designed without a bleed valve available

PUISAtron®

Electronic Metering Pumps

Series E-DC Key Features

- Powered by 12 Volt DC..
- 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).





Pressure and Flow Rate Capacity

MODE	_	LS02	LS13	LS14	LS44				
Capacity	GPH	0.25	0.50	1.00	1.85				
nominal	GPD	6	12	24	44				
(max.)	LPH	0.9	1.9	3.8	7.0				
Pressure	PSIG	150	150	100	100				
(max.)	BAR	10	10	7	7				
Connections	Tubing	1/4" ID X 3/8" OD 3/8" ID X 1/2" OD							
	Piping	1/4" FNPT							

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: 12.6 VDC Nominal Range 11.8-14.0 VDC

Average Current Draw:

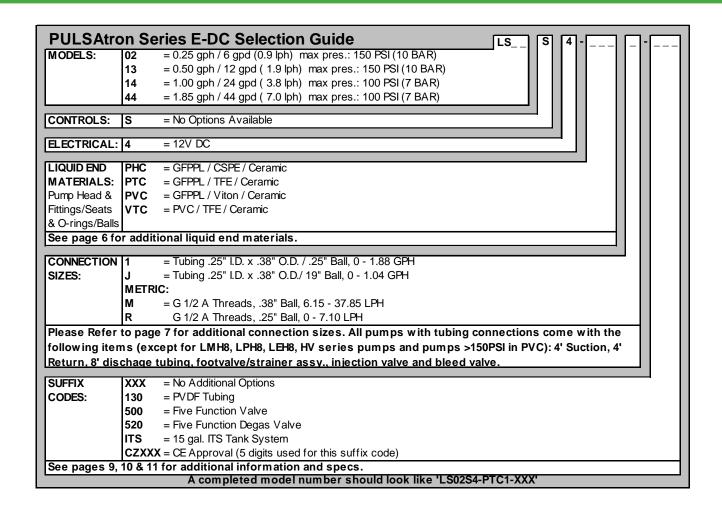
LS02, **13**, **14** Amps: 4.0 Amps **LS44** Amps: 8.0 Amps

Peak Input Power:

LS02, **13**, **14 Amps**: 138.6 Watts **LS44 Amps**: 189 Watts

Average Input Power @ Max SPM:

LS02, **13**, **14** Amps: 50.4 Watts **LS44** Amps: 100.8 Watts



Dimensions	
BLEED VALVE	
	1- 2 -1

Series E-DC Dimensions (inches)										
Model	Α	В	С	D	F	Shipping				
No.	^	Ь	C	D	_	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				



Electronic Metering Pumps

Series D

Key Features

- Completely Digital. The Series D is easy to set-up with scrolling menus that appear on the easy to read 16 digit LCD backlit display.
- Flow Control Option. Create a flow control system. Pump will stop if you lose flow.
- Hall Effect or Dry Contact water meter input.
- Four-button Touch Pad Control with internationally recognized symbols for simplified programming.
- Water Resistant excellent for OUTDOOR and indoor applications.
- Internally Dampened To Reduce Noise, very acceptable for household installations.
- Guided Ball Check Valve Systems, to reduce back flow and enhance outstanding priming characteristics.
- Safe & Easy Priming with durable leak-free bleed valve assembly (standard).



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







Pressure and Flow Rate Capacity

MODEI	L	LF02	LFC3	LF03	LF04	LF64	LFC4						
Capacity	GPH	0.25	0.42	0.50	1.00	1.25	2.00						
nominal	GPD	6	10	12	24	30	48						
(max.)	LPH	0.9	1.6	1.9	3.8	4.7	7.6						
Pressure	PSIG	150	250	150	100	100	50						
(max.)	BAR	10	17	10	7	7	3.3						
Connections	Tubing		1/4" ID X 3/8" OD 3/8" ID X 1/2" OD										
	Piping		1/4" FNPT										

Engineering Data

Reproducibility: +/- 3% at maximum capacity

Viscosity Max CPS: 1000 CPS

Status Display: 16-Posiition LCD Dot Matrix Backlight

Stroke Frequency Max SPM: 125 Stroke Frequency Turn-Down Ratio: 100:1

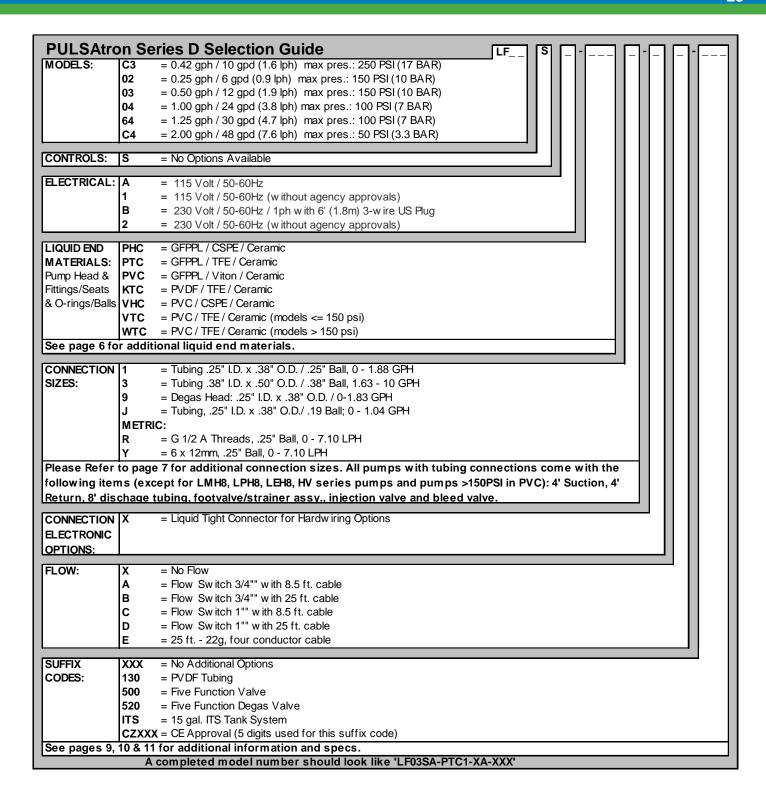
Power Input: 115 VAC/50-60 HZ/1 ph 230 VAC/50-60 HZ/1 ph

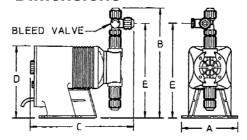
Average Current Draw:

@ 115 VAC; Amps: 0.6 Amps

@ 230 VAC; Amps: 0.3 Amps @ 230 VAC

Peak Input Power: 130 Watts
Average Input Power @ Max SPM: 50 Watts





Series D Dimensions (inches)										
Model No.	Α	В	С	E	Shipping Weight					
LF02	5.0	9.6	9.5	6.5	8.2	10				
LFC3	5.0	9.9	9.5	6.5	8.5	10				
LF03	5.0	9.9	9.5	6.5	8.5	10				
LF04	5.0	9.9	9.5	6.5	8.5	10				
LF64	5.0	9.9	9.5	6.5	8.5	10				
LFC4	5.0	9.9	9.5	6.5	8.5	10				

PUISATION® 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)



Pressure and Flow Rate Capacity

c (INTERTER)) <i>(E</i>	TION LISTER		ϵ
RC/I	LBS2	LBC	3	I BS/

Strokes/Minute		SPM		125							250	
0		Piping	1/4" FNPT									
Connections		Tubing		1/4" ID X 3/8" OD 3/8" ID X 1/2" OD							!" ID X 3/8" (OD
	Liquid End		150 (10)							150 (10)		
	CSPE Seats / Degas											
(max.)	PVC (V code) Viton or	(Bar)		150 (10)	200 (17)	130 (10)	100 (7)	100 (1)	30 (3.3)		155 (10)	100 (1)
Pressure ¹	w/TFE Seats)	PSIG	250 (17)	150 (10)	250 (17)	150 (10)	100 (7)	100 (7)	50 (3.3)	250 (17)	150 (10)	100 (7)
	or PVC (W code)											
	GFPP, PVDF, 316SS											
(max.)		LPH	0.9	0.9	1.6	1.9	3.8	4.7	7.6	1.9	5.2	9.14
nominal		GPD	6	6	10	12	24	30	48	12	33	58
Capacity		GPH	0.25	0.25	0.42	0.50	1.00	1.25	2.00	0.50	1.38	2.42
	MODEL		LBC2	LB02	LBC3	LB03	LB04	LB64	LBC4	LBS2	LBS3	LBS4

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.

Engineering Data

Reproducibility: +/- 3% at maximum capacity

Viscosity Max CPS: 1000 CPS

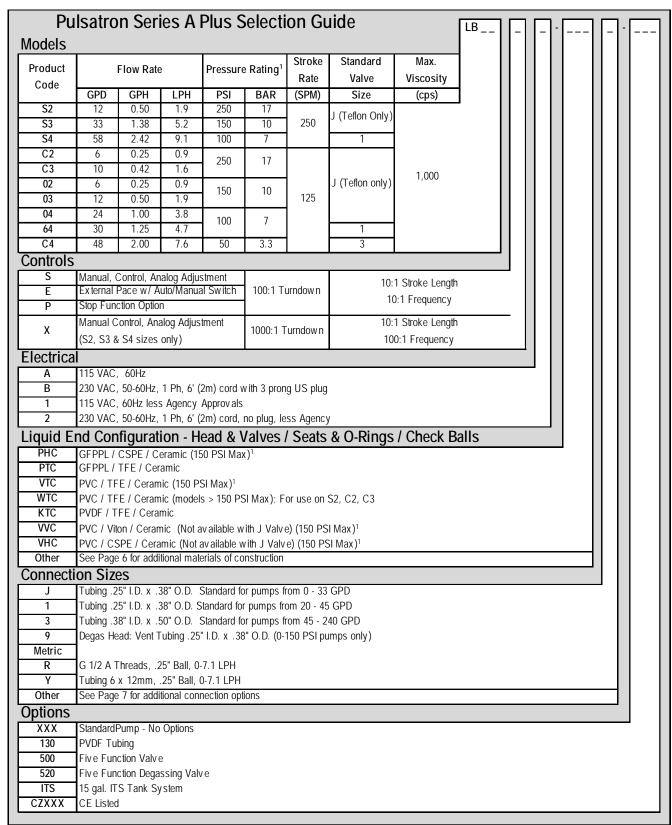
Stroke Frequency Max SPM: 125 / 250 by Model Stroke Frequency Turn-Down Ratio: 10:1 / 100:1 by Model

Stroke Length Turn-Down Ratio:

Power Input: 115 VAC/50-60 HZ/1 ph 230 VAC/50-60 HZ/1 ph

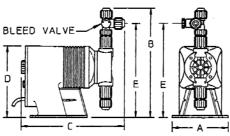
Average Current Draw:

@ 115 VAC; Amps: 0.6 Amps @ 230 VAC; Amps: 0.3 Amps Peak Input Power: 130 Watts Average Input Power @ Max SPM: 50 Watts



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





Series A PLUS Dimensions (inches)									
						Shipping			
Model No.	Α	В	С	D	E	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			

PUISAtron®

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.







Pressure and Flow Rate Capacity

MODEL	_	LD02	LD03	LD04	LD54			
Capacity	GPH	0.25	0.50	1.00	1.25			
nominal	GPD	6	12	24	30			
(max.)	LPH	0.9	1.9	3.8	4.7			
Pressure	PSIG	80	80	80	80			
(max.)	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				

Engineering Data

Reproducibility: +/- 3% at maximum capacity

Viscosity Max CPS: 1000 CPS Stroke Frequency Max SPM: Stroke Frequency Turn-Down Ratio: 10:1 Stroke Length Turn-Down Ratio:

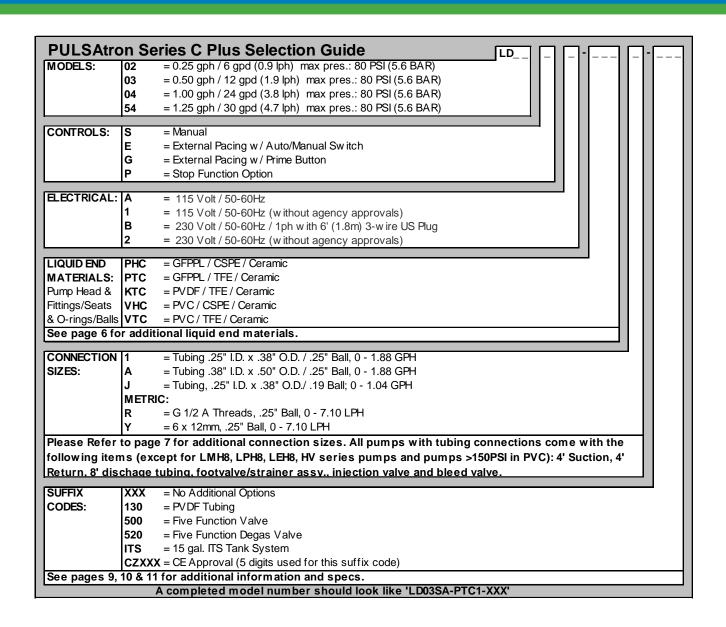
Power Input: 115 VAC/50-60 HZ/1 ph 230 VAC/50-60 HZ/1 ph

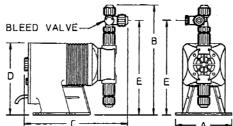
Average Current Draw:

0.6 Amps @ 115 VAC; Amps:

@ 230 VAC; Amps: 0.3 Amps @ 230 VAC

Peak Input Power: 130 Watts Average Input Power @ Max SPM: 50 Watts





	Series C PLUS Dimensions (inches)												
Model	Α	В	С	D	E	Shipping							
No.	^	Ь	C	, D	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							

PUISAtron®

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).







Pressure and Flow Rate Capacity

MODEI	_	LC02	LC03	LC04	LC54				
Capacity	GPH	0.25	0.50	1.00	1.25				
nominal	GPD	6	12	24	30				
(max.)	LPH	0.9	1.9	3.8	4.7				
Pressure	PSIG	80	80	80	80				
(max.)	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	·				

Engineering Data

Reproducibility: +/- 3% at maximum capacity

Viscosity Max CPS: 1000 CPS Stroke Frequency Max SPM: 125 Stroke Length Turn-Down Ratio: 10:1

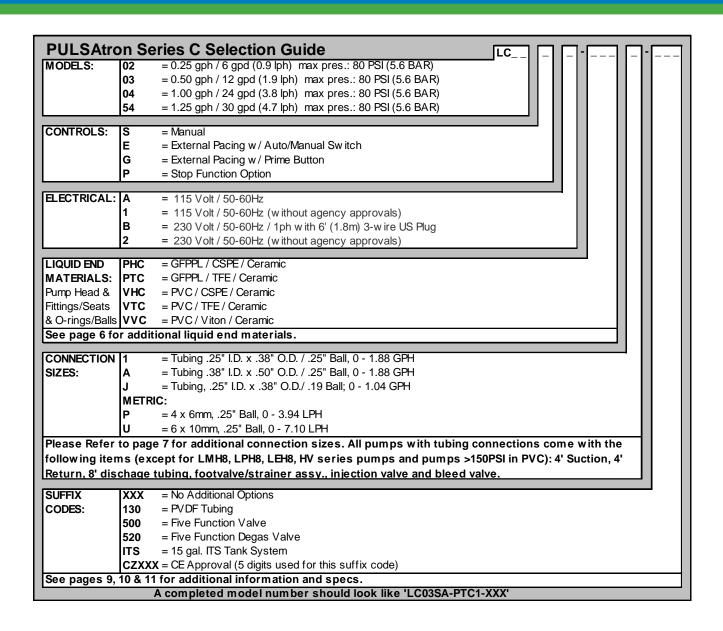
Power Input: 115 VAC/50-60 HZ/1 ph 230 VAC/50-60 HZ/1 ph

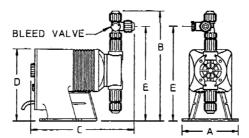
Average Current Draw:

@ 115 VAC; Amps: 0.6 Amps

0.3 Amps @ 230 VAC @ 230 VAC; Amps:

130 Watts Peak Input Power: Average Input Power @ Max SPM: 50 Watts





	Series C Dimensions (inches)												
Model	Α	В	C D	Е	Shipping								
No.	_ ^	Ь	C		_	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							

PUISATION® PLUS Electronic Metering Pumps with

Integrated Controller

Series CW

Conductivity Control with Water Meter Feed

The Series CW was designed to control conductivity and feed inhibitor in an open-air cooling tower. Chemical feed is initiated and controlled by input from a water meter. The Series CW combines everything you need to control conductivity and feed inhibitor into one unique, compact package to create a simple and cost effective metering and control system.

Principal of Operation

The Series CW includes a solenoid actuated metering pump, conductivity sensor, bleed relay and a dry contact input for water meter control. At set-up, the operator sets the conductivity set point, differential (or dead-band), the pump stroke frequency and run time. When conductivity reaches the set point, the system activates the bleed relay.

As make-up water passes through the water meter, it generates a series of pulses based on the volume of flow. The pump counts the pulses until the total reaches the Count set point. The pump runs at the frequency and run-time specified at set-up and the count is reset.



Features

- 120VAC or 250VAC @ 50/60 HZ, 5A max
- 4-electrode conductivity input
- 0-6000 mS/cm + 1%, temperature compensated
- Relay rated to 5A at 240VAC
- Isolated dry contact flow switch input
- Isolated dry contact water meter input

- 4 Digit LED, 9 key membrane keypad





- Single-button function keys
- Set, Differential, Calibration, Pulse Timer, and Count functions
- Stroke rate adjusts 0-100% in 1% increments, turndown ratio 100:1

Pressure and Flow Rate Capacity

MODE	L	LW02	LW03	LW04	LW64
Capacity	GPH	0.25	0.50	1.00	1.25
nominal	GPD	6	12	24	30
(max.)	LPH	0.9	1.9	3.8	4.7
Pressure	PSIG	150	150	100	100
(max.)	BAR	10	10	7	7

Engineering Data

Input:

Reproducibility: +/- 2% at maximum capacity

Controls: 9 key membrane keypad, Single button function keys

Conductivity Sensor: 4 electrode **Conductivity Range:**

0-6000 µS/cm +/- 1%, Temperature Compensated

Isolated Dry Contact Flow Switch Isolated Dry Contact Water Meter

Set, Differential, Calibration, and Pulse Timer and **Functions:**

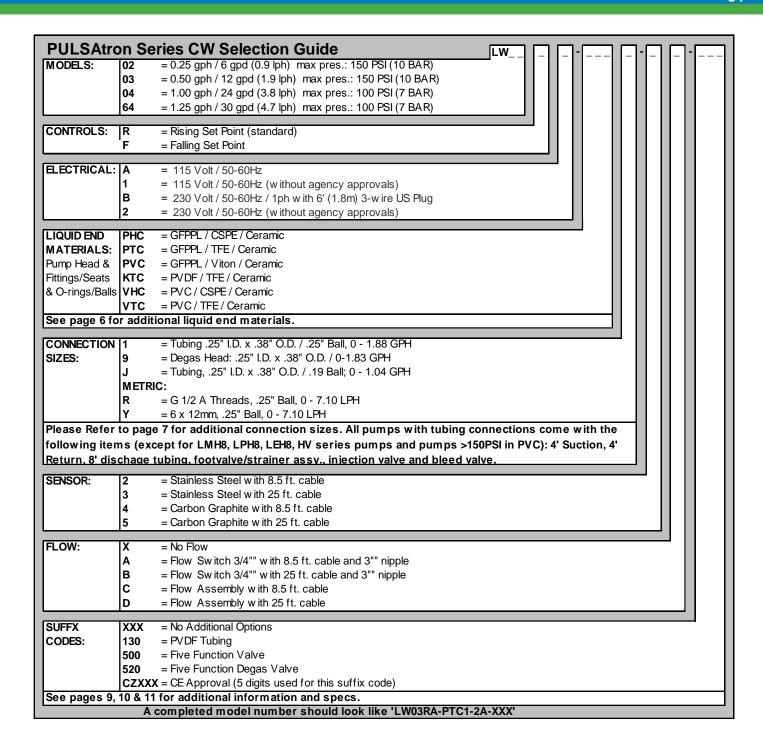
Count Function

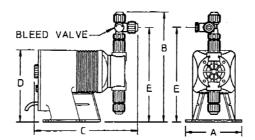
Status Display: 4 Digit LED Stroke Frequency Turn-Down Ratio: 100:1 Stroke Length Turn-Down Ratio: 100:1

Relay Ratings: 5A at 240 VAC

Power Input: 115 VAC/50-60 HZ/1 ph 230 VAC/50-60 HZ/1 ph

5 Amp max





	Series CW Dimensions (inches)												
Model	Α	В	С	D	Е	Shipping							
No.	,,	ם)	נ		Weight (lbs.)							
LW02	5.0	9.6	9.5	6.5	8.2	13							
LW03	5.0	9.9	9.5	6.5	8.5	13							
LW04	5.0	9.9	9.5	6.5	8.5	13							
LW64	5.0	9.9	9.5	6.5	8.5	13							

PUISAtron®PLUS

Electronic Metering Pumps with Integrated Controller

Series CL

Conductivity Control with Limit Timer

The Series CL was designed to control conductivity and feed inhibitor in an open-air cooling tower. The Series CL combines everything you need to control conductivity and feed inhibitor into one unique, compact package to create a simple and cost effective metering and control system.

Principle of Operation

The Series CL includes a conductivity sensor, bleed relay and a user programmable limit timer. When conductivity reaches the user specified level, the system activates the bleed relay and begins pumping inhibitor. The 'feed & bleed ' cycle will continue until the conductivity returns to the desired level. The programmable limit timer allows the user to specify a maximum pumping time for the feed cycle. If the limit time expires before the conductivity level returns to the set range, the pump stops feeding while the bleed continues. Once the conductivity level is reached and the system stops bleeding, the feed limit timer is automatically reset for the next bleed cycle.

Features

- 120VAC or 250VAC @ 50/60 HZ, 5A max
- 4-electrode conductivity input
- 0-6000 mS/cm + 1%, temperature compensated
- Relay rated to 5A at 240VAC
- Isolated dry contact flow switch input
- 4 Digit LED, 9 key membrane keypad
- Single-button function keys
- Set, Differential, Calibration, Pulse Timer, and Count functions
- Stroke rate adjusts 0-100% in 1% increments, turndown ratio 100:1







Pressure and Flow Rate Capacity

MODE	L	LL02	LL03	LL04	LL64	
Capacity	GPH	0.25	0.50	1.00	1.25 30	
nominal	GPD	6	12	24		
(max.)	LPH	0.9	1.9	3.8	4.7	
Pressure	PSIG	150	150	100	100	
(max.)	BAR	10	10	7	7	

Engineering Data

Reproducibility: +/- 2% at maximum capacity

Controls: 9 key membrane keypad, Single button function keys

Conductivity Sensor: 4 electrode

Conductivity Range: 0-6000 µS/cm +/- 1%, Temperature Compensated

Input: Isolated Dry Contact Flow Switch

Set, Differential, Calibration, and Pulse Timer **Functions:**

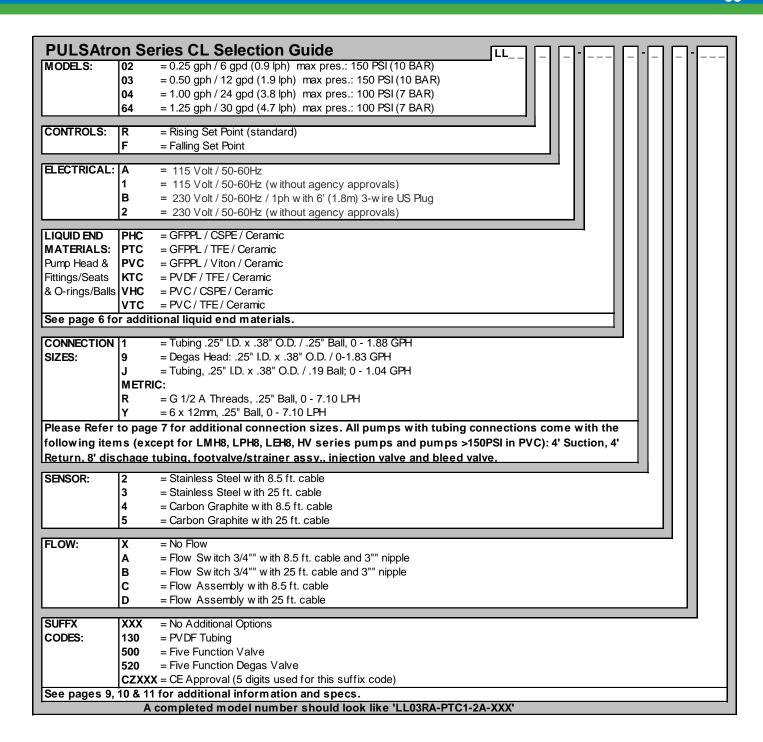
4 Digit LED Status Display: Stroke Frequency Turn-Down Ratio: 100:1 Stroke Length Turn-Down Ratio: 100:1

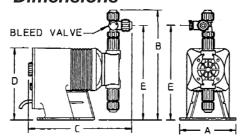
Power Input: 115 VAC/50-60 HZ/1 ph

230 VAC/50-60 HZ/1 ph

5 Amp max







	Series CL Dimensions (inches)												
Model	Α	В	С	D	Е	Shipping							
No.	_ ^	Ь			_	Shipping Weight (lbs.)							
LL02	5.0	9.6	9.5	6.5	8.2	13							
LL03	5.0	9.9	9.5	6.5	8.5	13							
LL04	5.0	9.9	9.5	6.5	8.5	13							
LL64	5.0	9.9	9.5	6.5	8.5	13							

PUISAtron®PLUS

Electronic Metering Pumps with Integrated Controller

Sereis WT

Water Meter Feed & Bleed Control

The Series WT was designed to control the feed and bleed cycle in an openair cooling tower. The feed and bleed cycle is initiated and controlled by input from a water meter. The Series WT combines everything you need to bleed off the tower and feed inhibitor into one unique, compact package to create a simple and cost effective metering and control system.

Principal of Operation

The Series WT includes a water meter input with programmable pulse timers that control the feed and bleed relays. When the water level in the cooling tower drops, the make-up water is turned on creating flow through the water meter. As make-up water passes through the water meter, it generates a series of pulses based on the volume of flow.

The Series WT has two pulse counters with independent set points that monitors output of the water meter. One controls the pump and one controls the bleed relay. When the count exceeds the set point, the counter is reset and the control function is activated for the run-time specified at set-up.



- 120VAC or 250VAC @ 50/60 HZ, 5A max
- Relay rated to 5A at 240VAC
- Isolated dry contact flow switch input
- Isolated dry contact water meter input
- 4 Digit LED, 9 key membrane keypad
- Single-button function keys
- Pump and bleed timers, pump and bleed counters
- Stroke rate adjusts 0-100% in 1% increments, turndown ratio 100:1

Pressure and Flow Rate Capacity

MODI	EL	LQ02	LQ03	LQ04	LQ64
Capacity	GPH	0.25	0.50	1.00	1.25
nominal	GPD	6	12	24	30
(max.)	LPH	0.9	1.9	3.8	4.7
Pressure	PSIG	150	150	100	100
(max.)	BAR	10	10	7	7

Engineering Data

Reproducibility: +/- 2% at maximum capacity

Controls: 9 key membrane keypad, Single button function keys

Conductivity Sensor:

Conductivity Range: 0-6000 µS/cm +/- 1%, Temperature Compensated

Isolated Dry Contact Flow Switch Input: Isolated Dry Contact Water Meter

Functions: Pump and Bleed Timers, Pump and Bleed Counters

Status Display: 4 Digit LED Stroke Frequency Turn-Down Ratio: 100:1 Stroke Length Turn-Down Ratio: 100:1

Relay Ratings: 5A at 240 VAC

Power Input: 115 VAC/50-60 HZ/1 ph

230 VAC/50-60 HZ/1 ph

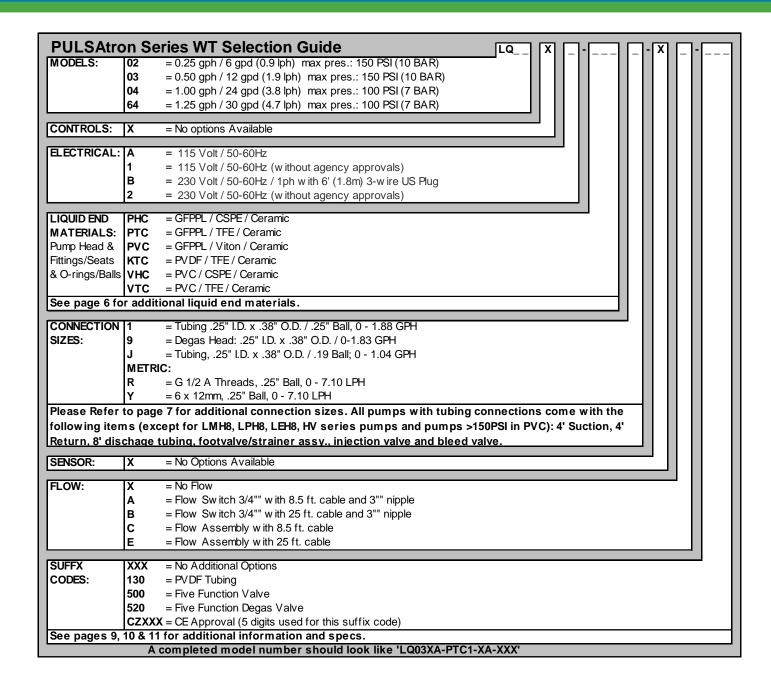
5 Amp max

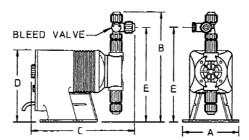












	Series WT Dimensions (inches)												
Model	Α	В	С	D	E	Shipping							
No.	l ^		ľ	C D E		Weight (lbs.)							
LQ02	5.0	9.6	9.5	6.5	8.2	13							
LQ03	5.0	9.9	9.5	6.5	8.5	13							
LQ04	5.0	9.9	9.5	6.5	8.5	13							
LQ64	5.0	9.9	9.5	6.5	8.5	13							

Note: Inches x 2.54 = cm

PUISAtron®PLUS

Electronic Metering Pumps with Integrated Controller

Series ET

Feed Control with Water Meter Input

The Series ET was designed to feed chemical in response to a water meter input. Typical applications include inhibitor feed for an open air-cooling tower. The Series ET provides everything you need in one unique, compact package to create a simple and cost effective metering system.

Principal of Operation

The Series ET counts pulses from a water meter. When the count exceeds a set value (either 1 or 10), the pump starts. The pump will continue to run for an adjustable time period. There are two time ranges – either 2 to 200 seconds or 12 seconds to 20 minutes. The setting is made by selecting a time base value (200 seconds or 20 minutes) and then setting the time base percentage from 1 to 100%.

Other control features include a standby mode, continuous 'ON' mode and the ability to adjust the stroke length from 0 - 100%.

The pump includes both input and output water meter connections at the front panel. The output connection provides an isolated dry contact output of the water meter contact to operate additional pumps or timers off the same water meter.

Features

- Isolated from Earth Ground
- 120VAC or 250VAC @ 50/60 HZ, 5A max
- Isolated Dry Contact (Water Meter)
- Isolated Dry Contact (Water Meter)
- Mode Select Knob, Stroke Length, Stroke Rate
- Standby, On, 200 sec/count, 200 sec/10 count, 20 min/count and 20 min/10 count
- Stroke rate and stroke length adjust 0-100% in 1% increments. Frequency turndown ratio 100:1.
- Agency approved for demanding **OUTDOOR** and indoor applications







MODE	L	LTB2	LTA2	LTB3	LTA3	LTF4	LTD4	LTB4	LTH4	LTG4	LTE4	LTH5	LTH6	LTH7	LTH8
Capacity	GPH	0.21	0.25	0.50	0.50	0.85	0.90	1.00	1.70	1.75	1.85	3.15	5.00	10.00	21
nominal	GPD	5	6	12	12	20	22	24	41	42	44	76	120	240	504
(max.)	LPH	0.8	0.9	1.9	1.9	3.2	3.4	3.8	6.4	6.6	7.0	11.9	18.9	37.9	79.5
Pressure	PSIG	250	150	150	100	250	150	100	250	150	100	150	100	35	20
(max.)	BAR	17	10	10	7	17	10	7	17	10	7	10	7	2.4	1.3

Engineering Data

Reproducibility: +/- 2% at maximum capacity Controls: Standby On

> 200 sec/count 200 sec/10 count 20 min/count 20 min/10 count

Stroke Frequency Turn-Down Ratio: 100:1 Stroke Length Turn-Down Ratio: 100:1

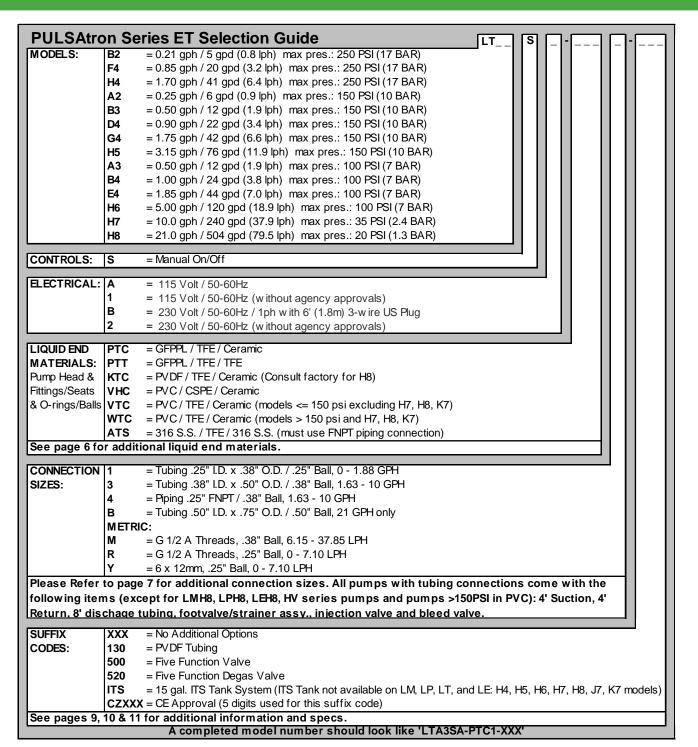
Power Input: 120 VAC/50-60 HZ/1 ph

250 VAC/50-60 HZ/1 ph

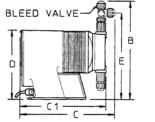
5 Amp max

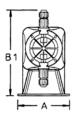






Dimensions





	Series ET Dimensions (inches)							
Model	Α	В	B1	С	C1	D	Е	Shipping
No.	l ^`		В.		01		_	Weight
LTA2	5.4	10.3	-	10.8	-	7.5	8.9	13
LTA3	5.4	10.6	-	10.7	-	7.5	9.2	13
LTB2	5.4	10.3	-	10.8	-	7.5	8.9	13
LTB3	5.4	10.6	-	10.7	-	7.5	9.2	13
LTB4	5.4	10.6	-	10.7	-	7.5	9.2	13
LTD4	5.4	10.6	-	11.2	-	7.5	9.2	15
LTE4	5.4	10.6	-	11.2	-	7.5	9.2	15
LTF4	5.4	10.6	-	11.7	-	7.5	9.2	18
LTG4	5.4	10.6	-	11.7	-	7.5	9.2	18
LTH4	6.1	10.9	-	11.2	-	8.2	9.5	21
LTH5	6.1	11.3	-	11.2	-	8.2	9.9	21
LTH6	6.1	11.3	-	11.2	-	8.2	9.9	21
LTH7	6.1	11.7	-	11.2	-	8.2	10.3	21
LTH8 *	6.1	- Inches V	10.9	-	10.6	8.2	1	25

NOTE: Inches X 2.54 = cm

^{*} the LPH8 is designed without a bleed valve available

PUISAtron®PLUS

Electronic Metering Pumps with Integrated Controller

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
- 120VAC or 250VAC @ 50/60 HZ, 5A max
- Mode Select Knob, Stroke Length, Stroke Rate
- 12, 22, 30 & 44 GPD @ 100 psi 7 bar
- Stroke length adjust 0-100% in 1% increments. Turn down ratio 10:1









Pressure and Flow Rate Capacity

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

Engineering Data

Reproducibility: +/- 3% at maximum capacity

Stroke Length Turn-Down Ratio:

Power Input: 115 VAC/50-60 HZ/1 ph 230 VAC/50-60 HZ/1 ph

Average Current Draw:

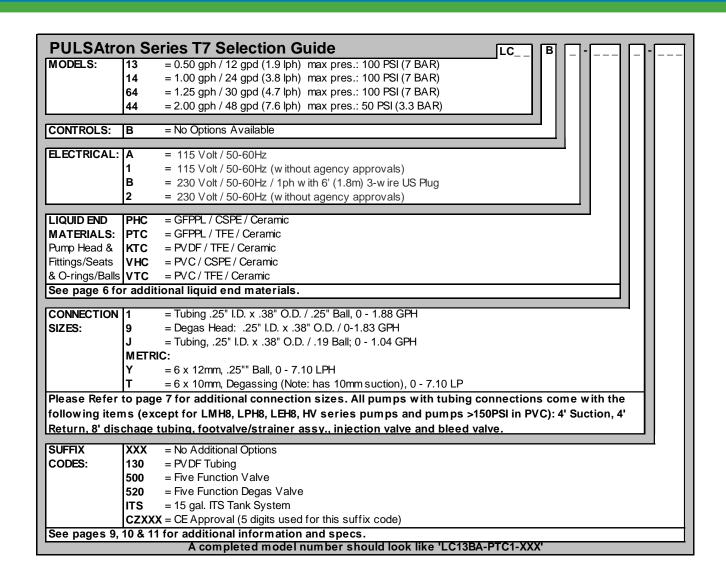
@ 115 VAC; Amps: 0.6 Amps

@ 230 VAC; Amps: 0.3 Amps @ 230 VAC

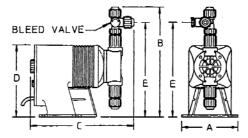


7-Day Timer

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.



Dimensions



Series T7 Dimensions (inches						
Model No.	Α	В	С	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



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.



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.



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:

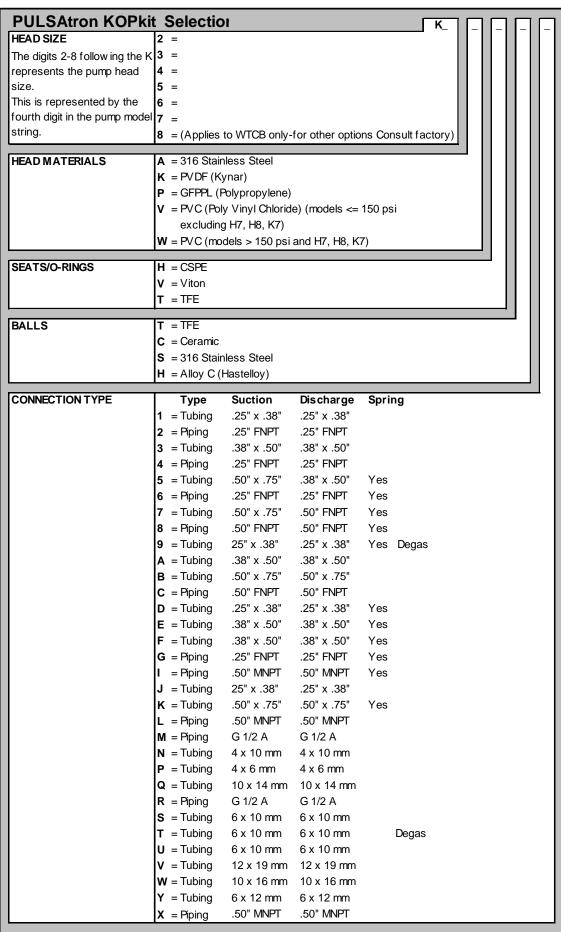
- P Head Material, including fittings. In this example, the P represents GFPPL.
- T Seat & O-Ring Material. In this example, the T represents Teflon.
- C Types of Balls used in the valves. In this example, the C represents Ceramic.
- 1 Connection type. In this example, the 1 represents tubing connections for 3/8" OD tubing.

The completed KOPkit number for the above example is:

K2PTC1

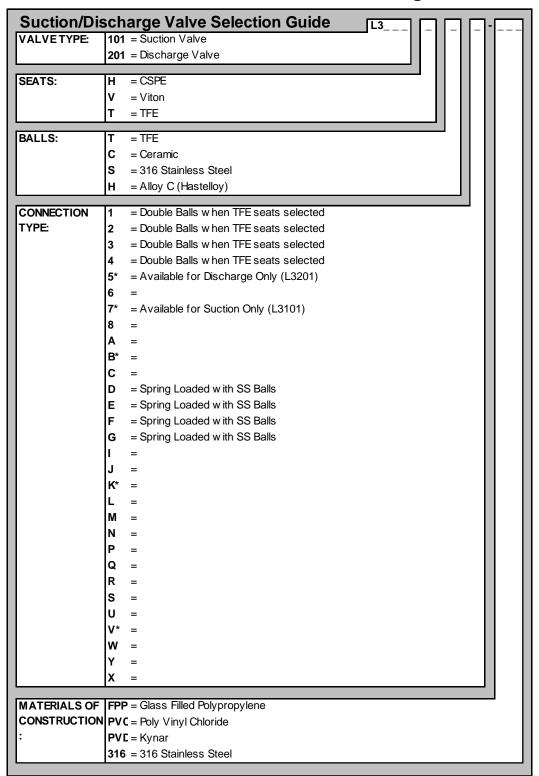
Note: If you do not find your connection size in the following selection guide, please consult the factory for accurate pricing. Our philosophy with the PULSAtron product line is to make it as flexible as our customers need it to be.





PUISAtron®

Suction/Discharge Valves



^{*} Available with Ceramic Balls and PVC Body Only - Consult factory for pricing on other options

LIQUID END COMPONENTS

DRIVE END COMPONENTS

ten	=	
No.	Part No. Description L0200200-316 HEAD, PUMP	.750
1	L0200200-519 HEAD, PUMP	.750
1	L0200200-PPH HEAD, POWP HSA #2 HEAD J	.750
1	L0200900-PY(HEAD, PUMP HSA #2 HEAD J	.750
1	L0200900-PVIHEAD, POWP HSA #2 HEAD J	.750
+	L0200300-316 HEAD, PUMP	1.000
1	L0200300-519 HEAD, POWP	1.000
1	L0200300-FPH HEAD, PUMP	1.000
1	L0202300-PV HEAD, POWP	1.000
1	L0200300-PV(HEAD, PUMP	1.000
1	L0200300-PV (HEAD, POWP HSA #3 HEAD J	1.000
1	L0201000-PP(THEAD, PUMP HSA #3 HEAD J	1.000
1	L0201000-PVIHEAD, POWP HSA #3 HEAD J	1.000
+	L0201000-PV HEAD, POWP HSA #3 HEAD 3	1.250
1	L0200400-519 HEAD, POMP	1.250
+		1.250
•	L0200400-PV(HEAD, PUMP	
1	L0200400-PV [HEAD, PUMP L0200500-SSTHEAD, PUMP	1.250 1.625
1		
1	L0200500-FPT HEAD, PUMP L0200500-PV (HEAD, PUMP	1.625 1.625
1		1.625
1	L0200500-PV[HEAD, PUMP	
1	L0200600-SSTHEAD, PUMP L0200600-FPRHEAD, PUMP	2.000
-		
1	L0200600-PV(HEAD, PUMP	2.000
1	L0200600-PV HEAD, PUMP L0200700-316 HEAD, PUMP	2.000 2.500
1	L0200700-319 HEAD, POWP	2.500
1	L0200700-PPI HEAD, POWP	2.500
1	L0200700-PVIHEAD. PUMP	2.500
1	L0200700-PV (HEAD, POWP	3.625
1	L0200800-PPUHEAD, PUMP	3.625
2	L0300900-THYDIAPHRAGM	.750
2	L0301000-THYDIAPHRAGM	1.000
2	L0301000-TH\DIAPHRAGM	1.250
2	L0301100-TH\DIAPHRAGM	1.625
2	L0301200-TH DIAPHRAGM	2.000
2	L0301300-TH\DIAPHRAGM	2.500
2	L0301400-TH\DIAPHRAGM	3.625
	L1501300-HYI SUC/DIS VLV O-RING. CSPE	ა.ნ2ა
18	L1501300-HY SUC/DIS VLV O-RING, CSPE	
18	L1501300-TFE SUC/DIS VEV O-RING, TFE L1501300-VTI SUC/DIS VEV O-RING, VTN	
	L1103400-PV(COUPLING NUT 5/16" OD	
24		
24	L1100300-PFI COUPLING NOT 3/8" OD	
	L1100300-PVI COUPLING NOT 3/8" OD	
	L1100400-FPH COUPLING NUT 1/2" OD	
24	L1100400-PFI COUPLING NOT 1/2 OD	
	L1100400-PVI COUPLING NOT 1/2" OD	
	L9906700-000 WEIGHT, CERAMIC TUBE	
	L1501200-TFBBLEED VLV O-RING. TFE	
60	L1500700-NTF SECONDARY SEAL, O-RING 2-109	
00	,	
ton	DRIVE END COMPONENTS	
ten	I Boot No Boot of ton	

	. '	DIATE END COMIT CHEMIC	
ten	•	5	
No.	Part No.	Description	
3		DEFLECTION PLATE	.750
3		DEFLECTION PLATE	1.000
3		DEFLECTION PLATE	1.250
3		DEFLECTION PLATE	1.625
3		DEFLECTION PLATE	2.000
3		DEFLECTION PLATE	2.500
4	L0400200-FPF	,	HSG #2
4		ADAPTER, 1.000	HSG #2
4	L0400400-FPF	ADAPTER, 1.250	HSG #2
4		ADAPTER, 1.625	HSG #2
4	L0400600-FPF	ADAPTER, 1.250	HSG #3
4	L0400700-FPF	ADAPTER, 1.625	HSG #3
4	L0400800-FPF	ADAPTER, 2.000	HSG #3
4		ADAPTER, 2.500	HSG #3
4	L0401100-FPF	ADAPTER, .750	HSG #1
4	L0401200-FPF	ADAPTER, 1.000	HSG #1
4	L0401300-FPF	ADAPTER, 1.250	HSG #1
4	L0401400-PPL	ADAPTER, 3.625	HSG #3
5	L9901200-BR	SHIM, DIAPHRAGM	
6	L1500400-NTF	EPM/ADAPTER O-RING	
6	L1500600-NTF	EPM/ADAPTER O-RING (ALL H PUM	PS)
7	L9801700-188	#10-32 X 2.62 PAN HEAD, PHILLIPS	LP_2-4
7		.25-20 X 2.62 PAN HEAD, PHILLIPS	
7	L9803400-188	.25-20 X 2.00 PAN HEAD	_ LP 8
7	L9803300-188	#10-32 X 2.00 PAN HEAD	316SS
8		#10 REG FLAT WASHER	LP 2-4
8	L9801400-188	.25 REG FLAT WASHER	LP 5-8
50	L0100100-115	EPM A, B, K2, 3	115V
50		EPM A. B. K2. 3	230V
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lten	0	DRIVE END COMPONENTS	
No.	. Part No.	Description	
	L0100200-115	EPM D, E, LE33, 34, 44	115V
	L0100200-230 L0100300-115		230V 115V
	L0100300-113		230V
	L0100400-115	EPM H7, K7	115V
50	L0100400-230	EPM H7, K7	230V
	L0100500-115	EPM LC, LD54 and LB64	115V
	L0100500-230	EPM LC, LD54 and LB64	230V
	L0100600-115	EPM LE 2, 3, 12, 13, 14 EPM LE 2, 3, 12, 13, 14	115V 230V
	L0100600-230 L0100200-012	EPM LS44	12VDC
	L0100600-012	EPM LS 2, 13, 14	12VDC
51	L0500100-080		.080 STRK
_	L0501100-040		.040 STRK
	L0501100-080		.080 STRK
	L0500300-040 L0500300-080		.040 STRK .080 STRK
	L0700101-125	CNTRL BD, A-B-D-E SIZE SLD	115V
	L0700101-125	CNTRL BD, A-B-D-E SIZE SLD	230V
52	L0700201-125	CNTRL BD, EXT/STOP, A, B, D, E	115V
	L0700202-125	CNTRL BD, EXT/STOP; A, B, D, E	230V
	L0700401-125	CNTRL BD, 4-20MA/STOP; A, B, D, E	115V
	L0700402-125 L0700501-150	CNTRL BD, 4-20MA/STOP; A, B, D, E	230V
	L0700501-150	CNTRL BD, F-G SIZE SLD CNTRL BD. F-G SIZE SLD	115V 230V
	L0700502-150	ICNTRL BD. H-K SIZE SLD	115V
	L0700502-200	CNTRL BD, H-K SIZE SLD	230V
	L0709401-220	CNTRL BD, LEH8	115V
	L0709402-220	CNTRL BD, LEH8	230V
	L0709101-220	CNTRL BD, LVH7, LP/LVH8	115V
	L0709102-220 L0700801-150	CNTRL BD, LVH7, LP/LVH8 CNTRL BD, EXT/STOP; F, G	230V 115V
	L0700801-150	CNTRL BD, EXT/STOP; F, G	230V
	L0700801-200	CNTRL BD EXT/STOP H SIZE SLD	115V
	L0700802-200	CNTRL BD EXT/STOP H SIZE SLD	230V
	L0709301-220	CNTRL BD EXT/STOP LVH7, LP/LVH8	115V
	L0709302-220 L0700901-150	CNTRL BD EXT/STOP LVH7, LP/LVH8 CNTRL BD, 4-20 MA/STOP; F, G	230V 115V
	L0700901-150 L0700902-150	CNTRL BD, 4-20 MA/STOP, F, G	230V
	L0700901-200	CNTRL BD, 4-20 MA/STOP; H	115V
	L0700902-200	CNTRL BD, 4-20MA/STOP; H	230V
	L0709201-220	CNTRL BD, 4-20MA/STP, LVH7, LP/LVH8	
-	L0709202-220	CNTRL BD, 4-20MA/STP, LVH7, LP/LVH8	230V
	L0701900-150 L9906500-000	CNTRL BD, E - DC CNTRL BD, 0, 5 SIZE SING FUNC	115V
	L9906600-000	CNTRL BD, 0, 5 SIZE SING FUNC	230V
	L9906201-000	CNTRL BD, C+, A+	115V
	L9906202-000	CNTRL BD, C+, A+	230V
52	L0702701-125	CNTRL BD, LM A, B, C, D, E/K2, 3	445)
52	L0702702-125	SIGNAL RELAY CNTRL BD, LM A, B, C, D, E/K2, 3	115V
32	L0702702-125	SIGNAL RELAY	230V
52	L0702901-125	CNTRL BD, LM A, B, C, D, E/K2, 3	
		POWER RELAY	115V
52	L0702902-125	CNTRL BD, LM A, B, C, D, E/K2, 3	
EO	1.0702004.450	POWER RELAY	230V
52	L0703801-150	CNTRL BD, LM F, G, K5 SIGNAL RELAY	115V
52	L0703802-150	CNTRL BD, LM F, G, K5	. 10 7
		SIGNAL RELAY	230V
52	L0703701-150	CNTRL BD, LM F, G, K5	
	1.0700700.450	POWER RELAY	115V
52	L0703702-150	CNTRL BD, LM F, G, K5 POWER RELAY	230V
52	L0702801-190	CNTRL BD, LM H, K7 Signal Relay	115V
	L0702802-190	CNTRL BD, LM H, K7 Signal Relay	230V
52	L0703001-190	CNTRL BD, LM H, K7	115V
	1.0700000 400	POWER RELAY	115V
52	L0703002-190	CNTRL BD, LM H, K7 POWER RELAY	230V
52	L0705006-120	CNTRL BD, EXT, C+, A+	230V
	L0705106-120	CNTRL BD, EXT, SERIES C	230V
52	L0705110-120	CNTRL BD, EXT, C (LC54) CNTRL PNL, SERIES MP SIGNAL, H & K7	230V
	L0601200-000	CNTRL PNL, SERIES MP SIGNAL, H & K7	
	L0601300-000	CNTRL PNL, SERIES MP SIGNAL	
	L0601400-000 L0601500-000	CNTRL PNL, SERIES MP POWER CNTRL PNL, SERIES MP POWER, H & K7	
	L0601600-000	CNTRL PNL, SERIES MP FOWER, H & K7	
	L1600400-000	DUST COVER, CONT PNL	HSG #3
	L1600500-000	DUST COVER, CONT PNL	HSG #2
	L2000100-040	SHAFT, ADJ FEMALE .040	HSG #2,3
	L2000100-080	SHAFT, ADJ FEMALE .080	HSG #2,3
ນວ	L2000200-040	SHAFT, ADJ FEMALE .040	HSG #1

DRIVE END COMPONENTS

DRIVE END COMPONENTS

ten	,	DRIVE END COMPONENTS	
No.	Part No.	Description	
	L2000200-080 L2000300-PBT		HSG #1 SG #2,3
	L2000300-PBT		HSG #1
	L1500100-EPB	O-RING, HSG #1/CONT PNL	
	L1500300-NTR	O-RING, HSG #2/CONT PNL	
	L1500500-NTR L9900600-000	O-RING, HSG #3/CONT PNL CONNECTOR, LIQUID TIGHT	
	L9900700-000	CONNECTOR, STRAIN RELIEF	
_	L9700300-000	CORD, POWER, SERIES C, E	125V
	L9700400-000 L9701200-000	CORD, POWER, SERIES C, E	230V
	L9701200-000 L9701300-000	CORD, POWER, SERIES E PLUS CORD, POWER, SERIES E PLUS	125V 230V
	L9700700-250	CIRCUIT BREAKER, SERIES MP	
	L9707300-000	FUSE 2 AMP, SERIES E, E PLUS	
	L9706900-000 L9800200-188	BOARD MNTD FUSE, SERIES A+, C+, C, E CNTRL PNL SCREW	
	L1500800-NTR	GROMMET, STROKE LENGTH	
	L1900800-000	KNOB, STROKE RATE/SWITCH	
	L9700500-000	LOCKING TAB	
	L1900100-FPP L1900300-FPP	KNOB, STROKE LENGTH KNOB, STROKE LENGTH	
	L9800200-188	KNOB MOUNTING SCREW	
	L1500900-NTR	GROMMET STROKE LENGTH	
81	L5000801-115	CNTRL PANEL ASSY,	115\/
81	L5000801-230	A-B-D-E SIZE SLDS CNTRL PANEL ASSY.	115V
		A-B-D-E SIZE SLDS	230V
81	L5000901-115	CNTRL PANEL ASSY, EXT/STOP,	4451
21	L5000901-230	A-B-D-E SIZE SLDS CNTRL PANEL ASSY, EXT/STOP,	115V
01	L3000901-230	A-B-D-E SIZE SLDS	230V
81	L5001001-115	CNTRL PANEL ASSY, 4-20MA/STOP,	
04	L5001001-230	A-B-D-E- SIZE SLDS CNTRL PANEL ASSY, 4-20MA/STOP,	115V
01	L3001001-230	A-B-D-E SIZE SLDS	230V
81	L5000301-230	CNTRL PANEL ASSY,	
	1 = 0 0 1 0 0 1 1 1 =	F-G SIZE SLDS	230V
	L5001301-115 L5001301-230	CNTRL PANEL ASSY, H SIZE SLD CNTRL PANEL ASSY, H SIZE SLD	115V 230V
_	L5028500-115	CNTRL PANEL ASSY, LEH8	115V
	L5028500-230	CNTRL PANEL ASSY, LEH8	230V
	L5028201-115 L5028200-230	CNTRL PANEL ASSY, LVH7, LP/LVH8 CNTRL PANEL ASSY, LVH7, LP/LVH8	115V 230V
	L5020200-230	CNTRL PANEL ASSY, EXT/STOP,	230 V
0.	L5001401-115	UNIKL PAINEL ASSY, EXI/STOP,	
		H SIZE SLD	115V
	L5001401-115	H SIZE SLD CNTRL PANEL ASSY, EXT/STOP,	
81		H SIZE SLD	230V
81 81	L5001401-230 L5028301-115	H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8	
81 81	L5001401-230	H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, EXT/STOP,	230V 115V
81 81	L5001401-230 L5028301-115	H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP,	230V
81 81 81	L5001401-230 L5028301-115 L5028300-230 L5001501-115	H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V	230V 115V
81 81 81	L5001401-230 L5028301-115 L5028300-230	H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP,	230V 115V 230V 115V
81 81 81 81	L5001401-230 L5028301-115 L5028300-230 L5001501-115	H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V	230V 115V 230V
81 81 81 81 81	L5001401-230 L5028301-115 L5028300-230 L5001501-115 L5001501-230 L5028401-115	H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V	230V 115V 230V 115V
81 81 81 81 81	L5001401-230 L5028301-115 L5028300-230 L5001501-115 L5001501-230	H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP,	230V 115V 230V 115V 230V 115V
81 81 81 81 81 81	L5001401-230 L5028301-115 L5028300-230 L5001501-115 L5001501-230 L5028401-115 L5028401-230	H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8	230V 115V 230V 115V 230V
81 81 81 81 81 81 81	L5001401-230 L5028301-115 L5028300-230 L5001501-115 L5001501-230 L5028401-115 L5028401-230 L5000100-012	H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14	230V 115V 230V 115V 230V 115V
81 81 81 81 81 81 81 81	L5001401-230 L5028301-115 L5028300-230 L5001501-115 L5001501-230 L5028401-115 L5028401-230 L5000100-012	H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 5-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, E-DC SIZE 44	230V 115V 230V 115V 230V 115V 230V
81 81 81 81 81 81 81 81	L5001401-230 L5028301-115 L5028300-230 L5001501-115 L5001501-230 L5028401-115 L5028401-230 L5000100-012	H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, E-DC SIZE 44 CNTRL PANEL ASSY, SERIES E	230V 115V 230V 115V 230V 115V
81 81 81 81 81 81 81 81	L5001401-230 L5028301-115 L5028300-230 L5001501-115 L5001501-230 L5028401-115 L5028401-230 L5000100-012	H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 5-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, E-DC SIZE 44	230V 115V 230V 115V 230V 115V 230V
81 81 81 81 81 81 81 81 81	L5001401-230 L5028301-115 L5028300-230 L5001501-115 L5001501-230 L5028401-115 L5028401-230 L5000100-012 L5000200-012 L5000100-115 L5000100-230	H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, SERIES E	230V 115V 230V 115V 230V 115V 230V
81 81 81 81 81 81 81 81 81 81	L5001401-230 L5028301-115 L5028300-230 L5001501-115 L5001501-230 L5028401-115 L5028401-230 L5000100-012 L5000200-012 L5000100-115 L5000100-230 L5000200-115	H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, SERIES E	230V 115V 230V 115V 230V 115V 230V 115V 230V
81 81 81 81 81 81 81 81 81 81 81	L5001401-230 L5028301-115 L5028300-230 L5001501-115 L5001501-230 L5028401-115 L5028401-230 L5000100-012 L5000200-012 L5000100-115 L5000100-230	H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, SERIES E	230V 115V 230V 115V 230V 115V 230V
81 81 81 81 81 81 81 81 81 81 81 81 81	L5001401-230 L5028301-115 L5028300-230 L5001501-115 L5001501-230 L5028401-115 L5028401-230 L5000100-012 L5000200-012 L5000100-230 L5000200-115 L5000200-115 L50002900-115	H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 5-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, 3-4 SIZE SLDS CNTRL PANEL ASSY, 3-4 ZISE SLDS CNTRL PANEL ASSY, SERIES C	230V 115V 230V 115V 230V 115V 230V 115V 230V
81 81 81 81 81 81 81 81 81 81 81 81 81	L5001401-230 L5028301-115 L5028300-230 L5001501-115 L5001501-230 L5028401-115 L5028401-230 L5000100-012 L5000200-012 L5000100-115 L5000200-115 L5000200-115 L5000200-230	H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 5-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, 3-4 SIZE SLDS CNTRL PANEL ASSY SIN-FUNC 0-SIZE SLD, 115V SERIES C CNTRL PANEL ASSY SIN-FUNC	230V 115V 230V 115V 230V 115V 230V 115V 230V
81 81 81 81 81 81 81 81 81 81 81 81 81 8	L5001401-230 L5028301-115 L5028300-230 L5001501-115 L5001501-230 L5028401-115 L5028401-230 L5000100-012 L5000200-012 L5000100-230 L5000200-115 L5000200-115 L50002900-115	H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 5-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, 3-4 SIZE SLDS CNTRL PANEL ASSY, 3-4 ZISE SLDS CNTRL PANEL ASSY, SERIES C	230V 115V 230V 115V 230V 115V 230V 115V 230V
81 81 81 81 81 81 81 81 81 81 81 81 81 8	L5001401-230 L5028301-115 L5028300-230 L5001501-115 L5001501-230 L5028401-115 L5028401-230 L5000100-012 L5000200-012 L5000100-115 L5000200-115 L5000200-115 L5000200-115 L50002900-130 L50002900-115	H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, 3-4 SIZE SLDS CNTRL PANEL ASSY, 3-4 SIZE SLDS CNTRL PANEL ASSY, 3-4 SIZE SLDS CNTRL PANEL ASSY, SERIES C CNTRL PANEL ASSY SIN-FUNC 0-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 115V SERIES C	230V 115V 230V 115V 230V 115V 230V 115V 230V
81 81 81 81 81 81 81 81 81 81 81 81 81 8	L5001401-230 L5028301-115 L5028300-230 L5001501-115 L5001501-230 L5028401-230 L50028401-230 L5000100-012 L5000200-012 L5000100-115 L5000200-115 L5000200-115 L50002900-115 L50002900-230	H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, 3-4 SIZE SLDS CNTRL PANEL ASSY, 3-4 SIZE SLDS CNTRL PANEL ASSY, 3-4 ZISE SLDS CNTRL PANEL ASSY, 3-4 ZISE SLDS CNTRL PANEL ASSY, 3-4 ZISE SLDS CNTRL PANEL ASSY SIN-FUNC 0-SIZE SLD, 115V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 115V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 115V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 115V SERIES C	230V 115V 230V 115V 230V 115V 230V 115V 230V
81 81 81 81 81 81 81 81 81 81 81 81 81 8	L5001401-230 L5028301-115 L5028300-230 L5001501-115 L5001501-230 L5028401-115 L5028401-230 L5000100-012 L5000200-012 L5000100-115 L5000200-115 L5000200-115 L5000200-115 L50002900-130 L50002900-115	H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, 3-4 SIZE SLDS CNTRL PANEL ASSY, 3-4 SIZE SLDS CNTRL PANEL ASSY, 3-4 SIZE SLDS CNTRL PANEL ASSY, SERIES C CNTRL PANEL ASSY SIN-FUNC 0-SIZE SLD, 115V SERIES C CNTRL PANEL ASSY SIN-FUNC 0-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C	230V 115V 230V 115V 230V 115V 230V 115V 230V
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81 81 81 81 81 81 81 81 81 81 81 81 81 8	L5001401-230 L5028301-115 L5028300-230 L5001501-115 L5001501-230 L5028401-115 L5028401-230 L5000100-012 L5000200-012 L5000200-115 L5000200-115 L5000200-230 L5002900-230 L5003000-115 L5003000-115 L5003000-230 L5011000-115	H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, 3-4 SIZE SLDS CNTRL PANEL ASSY SIN-FUNC 0-SIZE SLD, 115V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY EXT PACE SIZE 54, SERIES C CNTRL PANEL ASSY EXT PACE SIZE 54, SERIES C CNTRL PANEL ASSY EXT PACE SIZE 54, SERIES C	230V 115V 230V 115V 230V 115V 230V 115V 230V 115V 230V
81 81 81 81 81 81 81 81 81 81 81 81 81 8	L5001401-230 L5028301-115 L5028300-230 L5001501-115 L5001501-230 L5028401-230 L50028401-230 L5000200-012 L5000200-012 L5000200-115 L5000200-115 L5000200-115 L5000200-230 L5002900-230 L5002900-115 L5003000-115 L5003000-115 L5003000-115 L5003000-115 L5003000-115 L5003000-115 L5003000-115 L5003000-115	H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, H SIZE SLD CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 5-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, 3-4 SIZE SLDS CNTRL PANEL ASSY, 3-4 SIZE SLDS CNTRL PANEL ASSY, 3-4 SIZE SLDS CNTRL PANEL ASSY, SERIES C CNTRL PANEL ASSY SIN-FUNC 0-SIZE SLD, 115V SERIES C CNTRL PANEL ASSY SIN-FUNC 0-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC	230V 115V 230V 115V 230V 115V 230V 115V 230V 115V 230V
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ten	,	DRIVE END COMPONENTS	
No.	Part No.	Description	
81	L5003016-115	CNTRL PÅNEL ASSY, 4-20MA/STOP LPK5	115V
81	L5003701-115	CNTRL PANEL ASSY, STD K SIZE SLD	115V
81	L5003701-230	CNTRL PANEL ASSY, STD K SIZE SLD	230V
81	L5003801-115	CNTRL PANEL ASSY, EXT/STOP K SIZE SLD	115V
81	L5003801-230	CNTRL PANEL ASSY, EXT/STOP K SIZE SLD	230V
81	L5003903-115	CNTRL PANEL ASSY, 4-20MA/STOP K7	115V
81	L5003903-230	CNTRL PANEL ASSY, 4-20MA/STOP K7	230V
81	L5004100-115	CNTRL PANEL ASSY, SIN-FUNC SIZE 54, 115V SERIES C PLUS	230 V
81	L5004100-230	CNTRL PANEL ASSY, SIN-FUNC SIZE 54, 230V SERIES C PLUS	
81	L5010800-230	CNTRL PANEL ASSY EXT PACE SIZE 02, 03, 04, C3, C4 SERIES A+/C+	230\/
81	L5010900-230	CNTRL PANEL ASSY EXT PACE SIZE 54, 64 SERIES A+/C+	230V
81	L5005200-115	CNTRL PANEL ASSY, SIZE 02, 03, 04, C3, C4 SERIES A+/C+	
81	L5005300-230	CNTRL PANEL ASSY, SIZE 02, 03, 04, C3, C4 SERIES A+/C+	
81	L5004800-115	CNTRL PANEL ASSY, SIZE 54, 64 SERIES A+/C+	115V
81	L5004900-230	CNTRL PANEL ASSY, SIZE 54, 64 SERIES A+/C+	230V
81	L5007501-115	CNTRL PNL ASSY LMK2 SIGNAL RELAY	115V
81	L5007301-115	CNTRL PNL ASSY LM A,B,C,D,E,K3 SIGNAL RELAY	115V
81	L5007501-230	CNTRL PNL ASSY LMK2 SIGNAL RELAY	230V
81	L5007301-230	CNTRL PNL ASSY LM A,B,C,D,E,K3 SIGNAL RELAY	230V
81	L5007601-115	CNTRL PNL ASSY LMK2 POWER RELAY	115V
81	L5007401-115	CNTRL PNL ASSY LM A,B,C,D,E,K3 POWER RELAY	115V
	L5007601-230	CNTRL PNL ASSY LMK2 POWER RELAY	230V
	L5007401-230	CNTRL PNL ASSY LM A,B,C,D,E,K3 POWER RELAY	230V
	L5007701-115	CNTRL PNL ASSY LMK5 SIGNAL RELAY	115V
81	L5007101-115	CNTRL PNL ASSY LM F, G SIGNAL RELAY	115V
	L5007701-230	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
	L5007801-230	CNTRL PNL ASSY LMK5 POWER RELAY	230V
	L5007201-230	CNTRL PNL ASSY LM F, G POWER RELAY	230V
	L5007901-115	CNTRL PNL ASSY LMK7 SIGNAL RELAY	115V
	L5006901-115	CNTRL PNL ASSY LM H SIGNAL RELAY	115V
	L5007901-230 L5006901-230	CNTRL PNL ASSY LMK7 SIGNAL RELAY CNTRL PNL ASSY LM H	230V
	L5006901-230	SIGNAL RELAY CNTRL PNL ASSY LMK7	230V
	L5007001-115	POWER RELAY COTRL PNL ASSY H	115V
	L5008001-115	POWER RELAY CNTRL PNL ASSY LMK7	115V
		POWER RELAY	230V
	L5007001-230	CNTRL PNL ASSY H POWER RELAY	230V
	L9804000-000 L9800500-STL	GROUND LUG NUT GROUND LUG BOLT	
	L9700800-000	BREAKER COVER	
\vdash	L9700200-000	CORD, SIGNAL, 10 FT	
\vdash	L9700201-000 L9700800-000	CORD, SIGNAL, 20 FT PROTECTIVE BOOT, CKT BRKER	
	ra100000-000	I NOTECTIVE BOOT, ON FBRNEK	

BLEED VALVE ASSEMBLIES

lte	m		
No.		Description	OD
11	L3300H01-FPP	FPP/CSPE	3/8"
11	L3300H01-PVC	PVC/CSPE	3/8"
11	L3300H03-FPP	FPP/CSPE	1/2"
11	L3300H03-PVC	PVC/CSPE	1/2"
11	L3300T01-FPP	FPP/TFE	3/8"
11	L3300T01-PVC	PVC/TFE	3/8"
11	L3300T01-PVD	PVD/TFE	3/8"
11	L3300T03-FPP	FPP/TFE	1/2"
11	L3300T03-PVC	PVC/TFE	1/2"
11	L3300T03-PVD	PVD/TFE	1/2"
11	L3300V01-FPP	FPP/VTN	3/8"
11	L3300V01-PVC	PVC/VTN	3/8"
11	L3300V01-PVD	PVD/VTN	3/8"
11	L3300V03-FPP	FPP/VTN	1/2"
11	L3300V03-PVC	PVC/VTN	1/2"
11	L3300V03-PVD	PVD/VTN	1/2"

FOOT VALVE/STRAINER ASSEMBLIES

tem		
No. Part No.	Description	ID X OD
12 J40117	FPP/CSPE/C	3/8" X 1/2"
12 J40203	FPP/CSPE/316	3/8" X 1/2"
12 J40123	FPP/CSPE/TFE	3/8" X 1/2"
12 J60509	FPP/VTN/C	3/8" X 1/2"
12 J40141	FPP/VTN/316	3/8" X 1/2"
12 J40125	FPP/VTN/TFE	3/8" X 1/2"
12 J40212	FPP/FTF/C	3/8" X 1/2"
12 J40175	FPP/FTF/316	3/8" X 1/2"
12 J40171	FPP/FTF/TFE	3/8" X 1/2"
12 J60728	PVD/FTF/C	3/8" X 1/2"
12 J60729	PV D/CSPE/C	3/8" X 1/2"
12 J60730	PVD/VTN/C	3/8" X 1/2"
12 J40116	FPP/CSPE/C	1/4" X 3/8"
12 J40156	FPP/CSPE/316	1/4" X 3/8"
12 J40122	FPP/CSPE/TFE	1/4" X 3/8"
12 J60524	FPP/VTN/C	1/4" X 3/8"
12 J40158	FPP/VTN/316	1/4" X 3/8"
12 J40124	FPP/VTN/TFE	1/4" X 3/8"
12 J40211	FPP/FTF/C	1/4" X 3/8"
12 J40170	FPP/FTF/316	1/4" X 3/8"
12 J40169	FPP/FTF/TFE	1/4" X 3/8"
12 J60716	PVD/FTF/C	1/4" X 3/8"
12 J60717	PV D/CSPE/C	1/4" X 3/8"
12 J60718	PVD/VTN/C	1/4" X 3/8"
12 J40095	316	.25 NPT
12 J40195	FPP/CSPE/C	.25 NPT
12 J40187	FPP/VTN/C	.25 NPT
12 J40179	FPP/FTF/C	.25 NPT
12 J60503	FPP	.50 NPT
12 J60561	FPP	1/2 X 3/4"
12 J60564	FPP/FTF/C	3/16 X 5/16"
12 J60712	PVD/FTF/C	3/16 X 5/16"

STAINLESS STEEL VALVE REPAIR KITS

Part No.	Description
L9904200-316	VALVE REPAIR KIT - ATS2
L9904600-316	VALVE REPAIR KIT - ATS4
L9904700-316	VALVE REPAIR KIT - ATS6
L9904800-316	VALVE REPAIR KIT - ATS8
L9904900-316	VALVE REPAIR KIT - ATSG

TUBING

Part No.	Description	
00007	SUCT, 3/8 OD, CLEAR PVC	FT
00008	DISCH, 1/2 OD, WHITE PE	FT
00009	DISCH, 1/2 OD, BLACK PE	FT
00010	DISCH, 3/8 OD, WHITE PE	FT
00011	DISCH, 3/8 OD, BLACK PE	FT
J00012	DISCH, 1/2 OD, HI PRES, WHITE	FT
00013	DISCH, 1/2 OD, HI PRES, BLACK	FT
J00022	DISCH, 3/8 OD, HI PRES, WHITE	FT
J00023	SUCT, 1/2 OD, CLEAR PVC	FT
J00024	DISCH, 3/8 OD, HI PRES, BLACK	FT
J00032	SUCT/DISCH, 3/4 OD, CLEAR P\	FT
L9902900-000	PV DF TUBING, 3/8 OD	FT
L9903000-000	PVDF TUBING, 1/2 OD	FT
L9904300-PEB	SUCT, 5/16 OD, PE BLACK	FT
L9904300-PEW	SUCT, 5/16 OD, PE WHITE	FT
L9904300-PVC	SUCT, 5/16 OD, CLEAR PVC	FT
L9904300-PVD	SUCT, 5/16 OD, PV DF WHITE	FT
L9904500-PEW	DISCH, 1/2 X 5/8, PE WHITE	FT
L9913200-BRD	PVC CLEAR BRAIDED, 3/4 OD	FT

INJECTION BACK PRESS VALVE ASSEMBLIES

Item	ACK PRESS VALVE A	SSEVIDEIES
No. Part No.	Description	ID X OD
13 J41767	FPP/CSPE/C	3/8" X 1/2"
13 J41863	FPP/CSPE/316	3/8" X 1/2"
13 J41773	FPP/CSPE/TFE	3/8" X 1/2"
13 41716	FPP/VTN/C	3/8" X 1/2"
13 J41882	FPP/VTN/316	3/8" X 1/2"
13 J41775	FPP/VTN/TFE	3/8" X 1/2"
13 J41872	FPP/FTF/C	3/8" X 1/2"
13 J41879	FPP/FTF/316	3/8" X 1/2"
13 J41875	FPP/FTF/TFE	3/8" X 1/2"
13 J41694	PVC/CSPE/C	3/8" X 1/2"
13 41698	PVC/CSPE/C 6"	3/8" X 1/2"
13 41702	PP/VTN/C 6"	3/8" X 1/2"
13 J41865	PVC/CSPE/316	3/8" X 1/2"
13 J41759	PVC/CSPE/TFE	3/8" X 1/2"
13 J41714	PVC/VTN/C	3/8" X 1/2"
13 J41095	PVC/VTN/316	3/8" X 1/2"
13 J41761	PVC/VTN/TFE	3/8" X 1/2"
13 J41873	PVC/FTF/C	3/8" X 1/2"
13 J41881	PVC/FTF/316	3/8" X 1/2"
13 J41877	PVC/FTF/TFE	3/8" X 1/2"
13 J61073	PVD/FTF/TFE	3/8" X 1/2" 3/8" X 1/2"
13 J61021 13 J41766	PVD/FTF/C TFPP/CSPE/C	3/6 X 1/2 1/4" X 3/8"
13 J41766 13 J41862	IFPP/CSPE/316	1/4 × 3/8 1/4" × 3/8"
13 J41772	TFPP/CSPE/TFE	1/4 X 3/8 1/4" X 3/8"
13 41715	IFPP/VTNC	1/4" X 3/8"
13 41701	IFPP/VTN/C 6"	1/4" X 3/8"
13 J41866	FPP/VTN/316	1/4" X 3/8"
13 J41774	FPP/VTN/TFE	1/4" X 3/8"
13 J61098	FPP/FTF/C	1/4" X 3/8"
13 J41878	FPP/FTF/316	1/4" X 3/8"
13 J41874	FPP/FTF/TFE	1/4" X 3/8"
13 41693	PVC/CSPE/C	1/4" X 3/8"
13 41705	PVC/CSPE/C 6"	1/4" X 3/8"
13 J41864	PVC/CSPE/316	1/4" X 3/8"
13 J41758	PVC/CSPE/TFE	1/4" X 3/8"
13 J61237	PVC/VTN/C	1/4" X 3/8"
13 J41867	PVC/VTN/316	1/4" X 3/8"
13 41760	PVC/VTN/TFE	1/4" X 3/8"
13 J41996	PVC/FTF/C	1/4" X 3/8"
13 J41880	PVC/FTF/316	1/4" X 3/8"
13 J41876	PVC/FTF/TFE	1/4" X 3/8"
13 J61020	PVD/FTF/C	1/4" X 3/8"
13 J61026	PVD/FTF/TFE	1/4" X 3/8"
13 J41911	FPP/CSPE/C	.25 NPT
13 J41901	FPP/VTN/C	.25 NPT
13 J41944	FPP/FTF/C	.25 NPT
13 J41904	PVC/CSPE/C	.25 NPT
13 J41858	PVC/VTN/C	.25 NPT
13 J41908 13 J61015	PVC/FTF/C PVD/FTF/C	.25 NPT .25 NPT
13 J61015	316/FTF/316	.25 NPT
13 J41969	PVC/CSPE/C	1/2 X 3/4"
13 J61149-10P	FPP/FTF/C	1/2 X 3/4"
13 J61152-10P	FPP/CSPE/C	1/2 X 3/4"
13 J61160-10P	FPP/FTF/C	.50 NPT
13 J61157-10P	PVC/FTF/C	.50 NPT
13 J61156-10P	PVC/TFE/S	.50 NPT
1	OTHER	

OTHER

Part No.	Description
26858	BULKHEAD FITTING - PP 1/2"
26859	BULKHEAD FITTING - PVC 1/2"
26860	BULKHEAD FITTING - PVC 3/8"
26867	BULKHEAD FITTING - PP 3/8"
L9905000-FPP	J CONVERSION KIT (FPP/TFE/C)
L9905000-PVC	J CONVERSION KIT (PVC/TFE/C)
L9905100-FPP	J CONVERSION KIT (FPP/TFE/C)
L9905100-PVC	J CONVERSION KIT (PVC/TFE/C)
L9905100-PVD	J CONVERSION KIT (PVD/TFE/C)
L9906901-000	CONV. KIT (.75" VVC9) DEGAS HEAD
L9907001-000	CONV. KIT (1.00" VVC9) DEGAS HEAD
L9907101-000	CONV. KIT (1.25" VVC9) DEGAS HEAD



OMNI mechanical metering pumps and controllers are the economical standard for a reliable chemical feed pump with virtually no maintenance. For high technology in a simple to understand package an an economical price, add an MPC (metering pump controller) to the OMNI pump to take advantage of complete system integration between metering pump and process. The OMNI offers the following user friendly benefits

- Long Life DC2—DC6 are greased for life, DC7 is oil lubricated.
- Compact and Lightweight Saves space and easy handling.
- Controller Ready Add an MPC when automatic pump control is required.
- Simple Design Easy to install and operate.
- Highly Efficient Quiet and cool, standard fan cooled motor design.
- 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.
- Liquid End Materials-PP, PVDF & 316 SS

	MPC NO MOTOR OPTION
Minimal MPC	Motor Requirements:
HP/KW	Defined on order (Pump Dependent)
Voltage	230V nominal
Base Freq	50 or 60Hz (by Mfgr's Motor design)
Туре	TEFC
Phases	3 phase
	4 poles, 1500 rpm (50 hz) or 1,800 rpm (60hz) synchronous
Poles	speed
SF	>=1.05
Turn Down	Minimum 3:1 constant torque
Insulation	Class F or better
Inverter Duty	Not Required

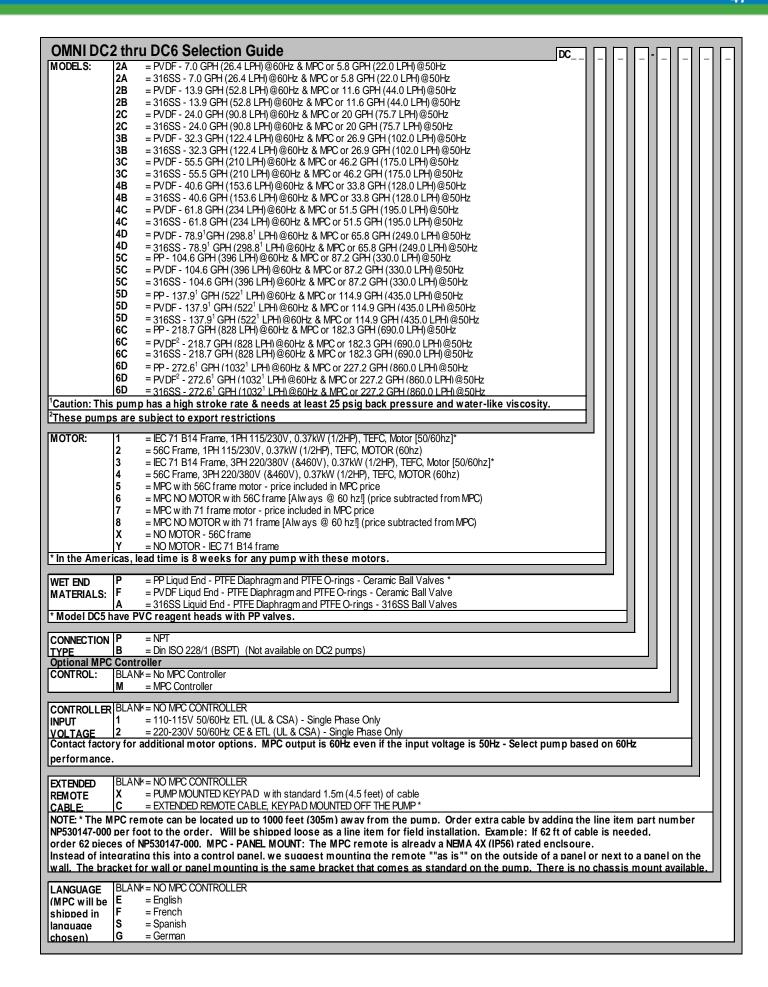


Performance & Selection Table

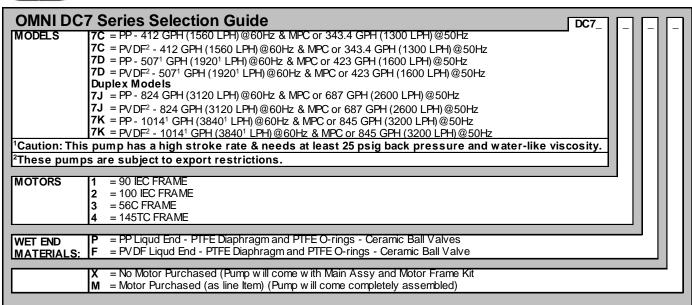
MODE	L	DC2A	DC2B	DC2C	DC3B	DC3C	DC4B	DC4C	DC4D	DC5C	DC5D	DC6C	DC6D
Capacity	GPH	7	13.9	24	32.3	55.5	40.6	61.8	78.9 ¹	105	138	218.7	272.6 ¹
60 hz & MPC	CLPH	26.4	52.8	90.8	122	210	154	234	298.8 ¹	396	522¹	828	1032¹
Capacity	GPH	5.8	11.6	20	26.9	46.2	33.8	51.5	65.8	87.2	115	182.3	227.2
50 hz	LPH	22	44	75.7	102	175	128	195	249	330	435	690	860
Pressure	PSIG		150		7	75		150		g	00	4	5
(max.)	BAR		10.3		5.	.1		10.3		6	.2	3.	.1
SPM @	1725	44	88	150	88	150	117	175	223 ¹	175	223 ¹	175	223 ¹
SFIVI @	1425	37	73	125	73	125	97	145	186	146	186	146	186
HP/kW Requ	ired		0.	25 / 0.	18					0.50	/ 0.37		
Connection	Size	1/4	4" (F)N	IPT	1/	2" (F)N	IPT OR	R (F)BS	SPT		1" (F)NI	PT OR (F)E	SPT

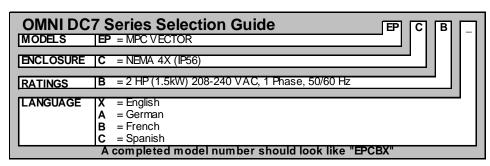
¹This selection uses a high stroking rate, use with caution.

Must have at least 25 psig discharge pressure and water-like viscosity.









Motor Selection							
Part Number	Power (hp/kW)	Volts	Phase	Hz	RPM	Frame	Enclosur
M D496	1.5 / 1.1	208-230 /		60	1725	NEMA 56C	
W773127-001 **	2 / 1.5 (DC7 Duplex)	460	3	60	1723	NEMA 145TC	TEFC
NP500622-000	1.5 / 1.1	400		60	1140	NEMA 56C	
NP500619-000	1.5 / 1.1				1425 / 1725		
NP500624-000 **	2 / 1.5 (DC7 Duplex)	220 / 380	3	50/60	1423 / 1723	IEC 90	TEFC
NP500621-000	1.5 / 1.1				940 / 1140		

Performance & Selection Table

MODEL	DC7C	DC7D	DC7J	DC7K			
Capacity	GPH	412 5071 824 1014					
60 hz & MPC	LPH	1560	1920¹	3120	3840¹		
Capacity	GPH	343	423	687	845		
50 hz	LPH	1300	1600	2600	3200		
Pressure	PSIG		6	0			
(max.)	BAR		4.	.1			
	1725	175	000 1	175	223 ¹		
ISDN/@	1725	175	223 ¹	175	223		
SPM @	1425	146	186	146	186		
SPM @ HP/kW Requi	1425		186	146			
	1425 red	146 1.5	186	146	186 1.5		

¹This selection uses a high stroking rate, use with caution. Must have at least 25 psig discharge pressure and water-like viscosity.



Common Pump Accessories - Omni & Others						
Component	Size	Material	Part No.			
Drip Cover,						
Motor	56C	Steel, Baldor	NP999119			
	1/2"	PVC/TFE	NA100001-PVC			
	1/2"	PV DF/TFE	NA100001-PVD			
_	1/2"	SS/TFE	NA100001-316			
Pressure	1"	PVC/TFE	NA100002-PVC			
Relief Valves	1"	PV DF/TFE	NA100002-PVD			
	1"	SS/TFE	NA100002-316			
	1.5"	PVC/TFE	NA100003-PVC			
	1.5"	PVDF/TFE	NA100003-PVD			
	1/2"	PVC/TFE	NA200001-PVC			
	1/2"	PV DF/TFE	NA200001-PVD			
	1/2"	SS/TFE	NA200001-316			
Back Pressure	1"	PVC/TFE	NA200002-PVC			
Valves	1"	PV DF/TFE	NA200002-PVD			
	1"	SS/TFE	NA200002-316			
	1.5"	PVC/TFE	NA200003-PVC			
	1.5"	PVDF/TFE	NA200003-PVD			
Gauge	1/4"	CPV C/TFE	NA500001-CPVC			
Isolator w/	1/4"	PVDF/TFE	NA500001-PVD			
200PSI Gauge	1/4"	316SS/TFE	NA500001-316			
	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			
Calibration	1/2"	Glass/PVD 200mL	NA300010-PVD			
Column	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			
	1/2"	PVC	40085			
	1/2"	CPVC	NA400001-CPVC			
Y Strainer	1/2"	PVD	NA400001-PVD			
	1"	PVC	NA400002-PVC			
	1"	CPVC	NA400002-CPVC			
	1"	PVD	NA400002-PVD			

OMNI KOPkit Selection Guide						
Type	Wetted		KOPkit	List		
Connectio	Material	Pump	Number	Adder		
NPT	PVDF	DC2	NLK020FP	\$ 300.80		
NPT	PVDF	DC3 or DC4	NLK040FP	\$ 451.20		
BSPT	PVDF	DC3 or DC4	NLK040FB	\$ 451.20		
NPT	PVDF	DC5	NLK050FP	\$ 630.40		
BSPT	PVDF	DC5	NLK050FB	\$ 630.40		
NPT	PVDF	DC6	NLK060FP	\$ 804.50		
BSPT	PVDF	DC6	NLK060FB	\$ 804.50		
NPT	PP	DC5	NLK050PP	\$ 516.10		
BSPT	PP	DC5	NLK050PB	\$ 516.10		
NPT	PP	DC6	NLK060PP	\$ 679.80		
BSPT	PP	DC6	NLK060PB	\$ 679.80		
N/A	PVDF & PP	DC7	NLK070XX	\$ 578.90		
NPT	316SS	DC2	NLK020AP	\$ 510.90		
NPT	316SS	DC3 or DC4	NLK040AP	\$ 750.90		
BSPT	316SS	DC3 or DC4	NLK040AB	\$ 750.90		
NPT	316SS	DC5	NLK050AP	\$ 904.40		
BSPT	316SS	DC5	NLK050AB	\$ 810.70		
NPT	316SS	DC6	NLK060AP	\$ 891.00		
BSPT	316SS	DC6	NLK060AB	\$ 891.00		

150 PS	SI Puls	ation Da	mpeners	- Chargeable
Volume	Body	Bladder	Connection	Part Number
		EPDM	3/8" FNPT	W777614-PPN
		CSPE	3/8" FNPT	W777614-PPH
	POLY	TFE Viton	3/8" FNPT 3/8" FNPT	W777614-PPT W777614-PPV
	FOLI	CSPE	1/2" FNPT	L9908300-HYP
		TFE	1/2" FNPT	L9908300-HTF
		Viton	1/2" FNPT	L9908300-VIT
		CSPE	1/2" FNPT	L9908400-HYP
10 cubic	PVC	TFE	1/2" FNPT	L9908400-TFE
inches		Viton	1/2" FNPT	L9908400-VIT
		EPDM CSPE	3/8" FNPT 3/8" FNPT	W777614-PVN W777614-PVH
	PVDF	TFE	3/8" FNPT	W777614-PVT
		Viton	3/8" FNPT	W777614-PVV
		EPDM	3/8" FNPT	W777611-16N
	316 SS	CSPE	3/8" FNPT	W777611-16H
		TFE Viton	3/8" FNPT 3/8" FNPT	W777611-16T W777611-16V
		EPDM	3/4" FNPT	W777616-PPN
	DOL 1/	CSPE	3/4" FNPT	W777616-PPH
	POLY	TFE	3/4" FNPT	W777616-PPT
		Viton	3/4" FNPT	W777616-PPV
85 cubic		EPDM	3/4" FNPT	W777616-PVN
inches	PVDF	CSPE TFE	3/4" FNPT 3/4" FNPT	W777616-PVH W777616-PVT
inches		Viton	3/4" FNPT	W777616-PVV
		EPDM	3/4" FNPT	W777613-16N
	316 SS	CSPE	3/4" FNPT	W777613-16H
	310 33	TFE	3/4" FNPT	W777613-16T
		Viton	3/4" FNPT	W777613-16V
		EPDM CSPE	2" FNPT 2" FNPT	W777618-PPN W777618-PPH
	POLY	TFE	2" FNPT	W777618-PPT
		Viton	2" FNPT	W777618-PPV
370		EPDM	2" FNPT	W777618-PVN
cubic	PVDF	CSPE	2" FNPT	W777618-PVH
inches	1 4 51	TFE	2" FNPT	W777618-PVT
		Viton EPDM	2" FNPT 2" FNPT	W777618-PVV W777631-16N
		CSPE	2" FNPT	W777631-16H
	316 SS	TFE	2" FNPT	W777631-16T
		Viton	2" FNPT	W777631-16V
		EPDM	3/4" FNPT	W777615-PPN
	POLY	CSPE	3/4" FNPT	W777615-PPH
		TFE Viton	3/4" FNPT 3/4" FNPT	W777615-PPT W777615-PPV
		EPDM	3/4" FNPT	W777615-PVN
36 cubic	חיים	CSPE	3/4" FNPT	W777615-PVH
inches	PVDF	TFE	3/4" FNPT	W777615-PVT
		Viton	3/4" FNPT	W777615-PVV
		EPDM	3/4" FNPT	W777612-16N
	316 SS	CSPE	3/4" FNPT	W777612-16H
	310 33	TFE	3/4" FNPT	W777612-16T
		Viton	3/4" FNPT	W777612-16V
		EPDM	2" FNPT	W777617-PPN
	POLY	CSPE	2" FNPT	W777617-PPH
	IOLI	TFE	2" FNPT	W777617-PPT
		Viton	2" FNPT	W777617-PPV
175		EPDM	2" FNPT	W777617-PVN
cubic	PVDF	CSPE	2" FNPT	W777617-PVH
inches	, , , Di	TFE	2" FNPT	W777617-PVT
		Viton	2" FNPT	W777617-PVV
		EPDM	2" FNPT	W777630-16N
	316 SS	CSPE	2" FNPT	W777630-16H
	3.3.55	TFE	2" FNPT	W777630-16T
		Viton	2" FNPT	W777630-16V
	Specifics	150 PSI Maxi	mum Draggura	-

Specifica 150 PSI Maximum Pressure



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 riability 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.



ΧP

Tested and Certified by WQA against NSF/ANSI 61-Section 8 and CSA B483.1



	Pump			ssure Rat	(Bar)	Tube	Speed		
	Size	Flow	Single	e Head Op	tions	Duplex	Size	(RPM)	
	Size		'H' Tube	'L' Tube	'F' Tube	'L' Tube	SIZE	(KEW)	
	XP004	4 GPD (0.6 LPH)	125 (8.6)	80 (5.5)	60 (4.1)	80 (5.5)	2	30	1
	XP007	7 GPD (1.1 LPH)	123 (0.0)	00 (3.3)	00 (4.1)		_	50	1
	XP009	9 GPD (1.4 LPH)	110 (7.6)	70 (4.8)	50 (3.4)	70 (4.8)	3	30	1
MODELS:	XP015	15 GPD (2.4 LPH)	110 (7.0)	70 (4.0)	30 (3.4)		3	50	1
	XP014	14 GPD (2.3 LPH)	100 (5.9)	50 (3.4)	40 (2.8)	50 (3.4)	4	30	1
	XP023	23 GPD (3.6 LPH)	100 (3.9)	30 (3.4)	40 (2.0)		4	50	1
	XP030	30 GPD (4.7 LPH)	80 (5.5)	40 (2.8)		40 (2.8)	6	30	1
	XP050	50 GPD (7.9 LPH)		40 (2.8)			O	50	1
	XP048	48 GPD (7.5 LPH)		25 (1.7)		25 (1.7)	8	30	1
	XP080	80 GPD (12.6 LPH)		23 (1.7)			0	50	
	APUOU	00 GPD (12.0 LPH)		` '				50	<u>_</u>

ELECTRICAL:	Н	115V, 60Hz 230V, 50/60Hz 230V, 50Hzwith Grounded Right Angle European Plug
	Note: 5	OHz pumps will produce 5/6 of the rated flow
`		

	F	Fixed Rate, On / Off Only
	Α	Adjustable 20:1 Turndow n, On / Off with Current Interrupter Timer
	G	Duplex Head - Fixed Rate, On / Off Only, 'L' Tube
	В	Duplex Head - Adjustable, On / Off with Current Interrupter Timer, 'L' Tube
	1	Pulse Input, .1 to 1 Second Timer
DDIVE.	2	Pulse Input, .2 to 10 Second Timer
DRIVE:	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
	7	Flow Switch Activated with 3/4" NPT Flow Switch - Adjustable Rate Pump
	8	7 Day - 8 Event Electronic Timer - Fixed Rate Pump

TUBING:	L H	Low Pressure Norprene with 1/4" Tube Fittings 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
		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)
	X	IPump Only

		A complete
	Т	15 Gallon ITS System
SISIEWI.	3	35 Gallon Tank System
SYSTEM:	1	15 Gallon Tank System
		i amp omy

A completed model should look like "XP030LFLX"



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



against NSF/ANSI 61-Section 8 and CSA B483.1

Tested and Certified by WQA

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

Chem-Tech XPV Series Selection Guide												
	Pump	_		ssure Rat			Tube	Speed		ш		
	Size	Flow		Head Op		Duplex 'L' Tube	Size	(RPM)		ш		
	XP008	8 GPD (1.3 LPH)	125 (8.6)	'L' Tube 80 (5.5)	60 (4.1)	80 (5.5)	2		ł			
	XP017	17 GPD (2.7 LPH)	110 (7.6)	70 (4.8)	50 (3.4)	70 (4.8)	3	65				
	XP033	, ,	100 (5.9)	50 (3.4)	40 (2.8)	50 (3.4) 1	4	Max.				
		55 GPD (8.7 LPH)	80 (5.5)	40 (2.8)	10 (=10)	40 (2.8) ²	6	60	t			
		100 GPD (15.8 LPH)		25 (1.7)		25 (1.7)	8	Max.				
		,						IVIGA.		<u> </u>		
		115V, 60Hz								_ I		
ELECTRICAL:		230V, 60/50Hz	C = =	Dialet Assa	. F	Dive				- 1		
	R	230V, 60/50Hz w ith	Grounded	Right Ang	e Europea	in Mug						
DDIVE.	V	Variable Input Contr	ol w ith I/O	Cable							- 1	
DRIVE:	G	Duplex Head - Low Pressure Norprene with 1/4" Tube Fitting										
					9						-	!
	- <u>-</u>	Low Pressure Norp										
		High Pressure Norph										
TUBING:	3 4	Low Pressure Norp High Pressure Norp	rene with 3	0/0 Tube F	ittings							
		Fluran, Acid resista				(Doesnot i	nclude :	strainer 8	R injector	20025	enripe	a
G Fluran, Acid resistant tubing with 3/8" Tube Fittings (Doesnot include strainer & injector accessories)												
	Х	Pump Only										
System: 1 15 Gallon Tank System												
		35 Gallon Tank Syst										- 1
	Т	15 Gallon ITS System			erlel less t	191 IIVB87	101 V// 1	7 11				
		A coi	n pieted n	nodelsho	ula look	like "XP03	33LVL)	("				

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

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

XP & XPV SERIES PARTS PRICE SCHEDULE

Part Number	Description	Part Number	Description
KOPkits - Low Press		ACCESSORIES ASSEN	•
NCKA2LPAP1	KOPkit XP - 004 / 007 / 008	J63051	Access. Kit, PVC/VTN, .25N
NCKA3LPAP1	KOPkit XP - 009 / 015 / 017	J30257	Grease Kit
NCKA4LPAP1	KOPkit XP - 023 / 033 / 014	000201	Crodoc rui
NCKA6LPAP1	KOPkit XP - 030 / 050 / 055	PARTS	
NCKA8LPAP1	KOPkit XP - 048 / 080 / 100	J60609	Strainer Assembly w/o Valve
KOPkits - High Press		J63002	Control Panel Cover (Clear)
NCKA2HPAP1	KOPkit XP - 004 / 007 / 008	J63004	Rain Hood
NCKA3HPAP1	KOPkit XP - 009 / 015 / 017	J63007	Switch, On-Off
NCKA4HPAP1	KOPkit XP - 023 / 033 / 014	J63013	Timer Assy
NCKA6HPAP1	KOPkit XP - 030 / 055	J63016	Gear Motor, 30RPM / 120V / 50-60Hz
NCKA24PAP1	KOPkit XP - 004 / 008 - 3/8"	J63017	Gear Motor, 30RPM / 240V / 50-60Hz
NCKA44PAP2	KOPkit XP - 033 / 014 - 3/8"	J63018	Gear Motor, 50RPM / 120V / 50-60Hz
KOPkits - Duplex Lov	w Pressure	J63019	Gear Motor, 50RPM / 240V / 50-60Hz
NCKD2LPAP1	KOPkit XP - 004 / 008	J63023	Housing Assy, 100% Fixed Rate
NCKD3LPAP1	KOPkit XP - 009 / 017	J63024	Housing Assy, 100% Timer
NCKD4LPAP1	KOPkit XP - 033 / 014	L1900500-000	Thumb Screw #6 (Control Pnl Cover)
NCKD6LPAP1	KOPkit XP - 030 / 055	NC110002-PVC	Coupling Nut, .25 NPT
NCKD8LPAP1	KOPkit XP - 048 / 100	NC110016-000	Sleeve, .25 OD Tube
		NC170004-000	Label, Earth Ground
TUBE KITS		NC190000-000	Knob, #10 Thumb Screw (Head Mtg)
Low Pressure 1/4" 1	Tube Fittings	U8800712	Injection Valve Assembly
NC90XX2LPA-XXXXX	Kit, Tube Assy - 004 / 007 / 008	NC82XX3LP1-XXXXX	Roller Assembly For Size 2-6 Tubes
NC90XX3LPA-XXXXX	Kit, Tube Assy - 009 / 015 / 017	NC82XX8LP1-XXXXX	Roller Assembly For Size 8 Tube
NC90XX4LPA-XXXXX	Kit, Tube Assy - 023/ 033 / 014		·
NC90XX6LPA-XXXXX	Kit, Tube Assy - 030 / 050 / 055	TANK/WALL MOUNT	KITS
NC90XX8LPA-XXXXX	Kit, Tube Assy - 080 / 100	J63047	15 Gal Tank Bracket
High Pressure 1/4" 1	Tube Fittings	J63048	ITS Tank Adaptor Plate
NC90XX2HPA-XXXXX	Kit, Tube Assy - 004 / 007 / 008	J63049	Tank / Wall Mount with Shield
NC90XX3HPA-XXXXX	Kit, Tube Assy - 009 / 015 / 017		
NC90XX4HPA-XXXXX	Kit, Tube Assy - 023/ 033 / 014	WATER METER PULSI	ETIMER
NC90XX6HPA-XXXXX	Kit, Tube Assy - 030 / 055	U8800655	Control Mate, 115V
Low Pressure 3/8" 1	-	U8800715	Control Mate LT, 0.1 to 10 seconds
NC90XX23PA-XXXXX	Kit, Tube Assy - 004 / 007 / 008	U0818343	Bracket, Mount
NC90XX33PA-XXXXX	Kit, Tube Assy - 009 / 015 / 017		
NC90XX43PA-XXXXX	Kit, Tube Assy - 023/ 033 / 014	XPV Series Pa	rts
NC90XX63PA-XXXXX	Kit, Tube Assy - 030 / 050 / 055	J63006	Drive Motor, Variable Speed
NC90XX83PA-XXXXX	Kit, Tube Assy - 080 / 100	J63053	Digital Control Board, Variable Speed
High Pressure 3/8" 1	Tube Fittings	J63054	Pow er Supply, Variable Speed
NC90XX24PA-XXXXX	Kit, Tube Assy - 004 / 007 / 008	J63071	Motor Control Board, Variable Speed
NC90XX34PA-XXXXX	Kit, Tube Assy - 009 / 015 / 017	J63115	Fuse Kit, Variable Speed
NC90XX44PA-XXXXX	Kit, Tube Assy - 023/ 033 / 014		
NC90XX64PA-XXXXX	Kit, Tube Assy - 030 / 055		
Fluran 1/4" Tubing Fi	ittings		
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 Fi	=		
NC90XX2GPA-XXXXX	Kit, Tube Assy - 004 / 007 / 008		
NC90XX3GPA-XXXXX	Kit, Tube Assy - 009 / 015 / 017		
NC90XX4GPA-XXXXX	Kit, Tube Assy - 023/ 033 / 014		



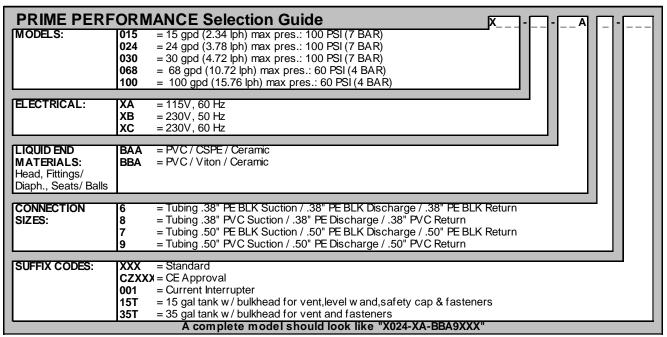
Prime Performance

The Chem-Tech Prime Performance Series pumps have a specially designed degassing valve system for applications using off-gasing 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.

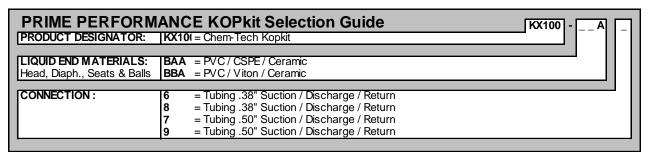


Standard Agency Listings					
Model	ETL	ETLsan	CE		
All 60Hz	X	X			
All 50Hz X					
Contact factory for alternate listings					



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.







Series 100, 150, 200

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.

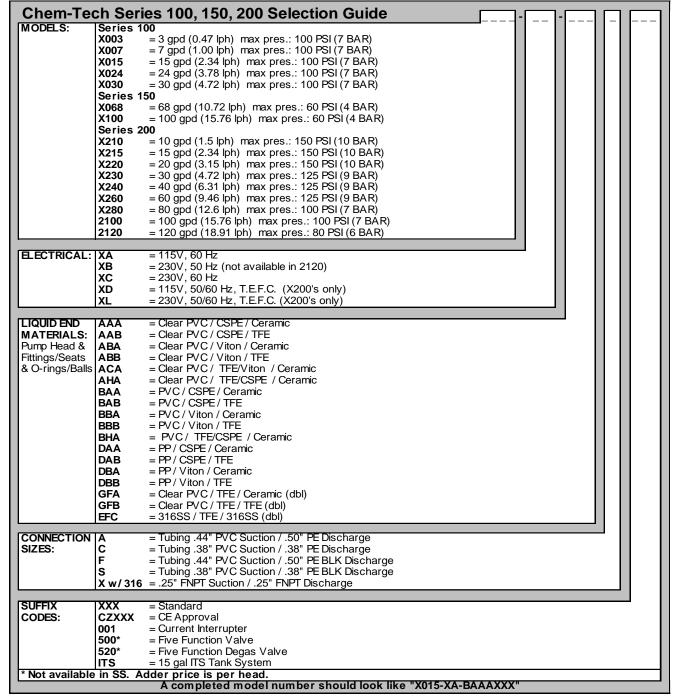
Series 200 Models – The pump popular for their rugged design for continuous duty operation offers feed rates from 10 to 120 gpd and pressures up to 150 psi.

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

Standard Agency Listings					
Model	ETL	ETLsan	CE		
All 60Hz	Χ	Χ			
100-150 50Hz			Х		
200 50Hz					
Contact factory for alternate listings					









Series 100D and 150D

Offering the same features as the Series 100 and 150 Models but configured as duplex units capable of dosing 2 chemicals at different rates.

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

Remember that liquid end adders must be doubled for duplex pump models.

Standard Agency Listings						
Model	ETL	ETLsan	CE			
All 60Hz	Х	Х				
100-150 50Hz			Χ			
200 50Hz						
Contact fact	ory for alt	ernate listir	Contact factory for alternate listings			





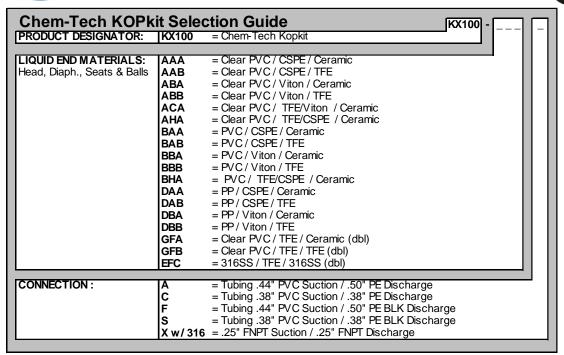
	ch Series 100D and 150D Duplex Selection Guide 1
	Series 100D Duplex Pump 144
	465 = 69.0 gpd (10.88 lph) / 24.0 gpd (3.79 lph) max pres.: 60 PSI (4.2 BAR) 466 = 69.0 gpd (10.88 lph) / 69.0 gpd (10.88 lph) max pres.: 60 PSI (4.2 BAR)
ELECTRICAL:	XA
LIQUID END	IAAA = Clear PVC / CSPE / Ceramic
MATERIALS: Pump Head & Fittings/Seats & O-rings/Balls	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 DAA = PP / CSPE / Ceramic DAB = PP / CSPE / TFE DBA = PP / Viton / Ceramic DBB = PP / Viton / Ceramic DBB = PP / Viton / TFE GFA = Clear PVC / TFE / Ceramic (dbl) GFB = Clear PVC / TFE / TFE (dbl) EFC = 316SS / TFE / 316SS (dbl) A = Tubing .44" PVC Suction / .50" PE Discharge
SIZES:	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
CODES:	XXX = Standard CZXXX = CE Appoval 001 = Current Interrupter 500* = Five Function Valve 520* = Five Function Degas Valve ITS = 15 gal ITS Tank System
	e in SS. Adder price is per head.

STANDARD ACCESSORIES

Series 100/150/100D/150D/200: Pumps with tubing connections come with foot valve/strainer/weight, 4' of suction tubing, bleed valve, 4' of return tubing, 8' of discharge tubing, and injection/back pressure valve assembly.



J26907 Bulkhead Fitting (PVC-1/2") J26908 Bulkhead Fitting (PVC-3/8")



SERIES 100, 150, 100D, 150D AND 200 PARTS PRICE SCHEDULE

Part No.	Description	Part No.	Description
00006	Suction Tubing - per foot 7/16" OD	J26909	Bulkhead Fitting (PVC-5/16")
00007	Suction Tubing - per foot 3/8"	J26910	Bulkhead Fitting w ithout strainer (PVC-3/8")
00008	Discharge Tubing - per foot 1/2" OD	J26905	Bulkhead Fitting for ITS (PVC-1/4")
00009	Discharge Tubing - per foot 1/2" Black	J27903	Gasket, IFE
00010	Discharge Lubing - per foot 3/8"	27911	Gasket
00011	Discharge Tubing - per foot 3/8" Black	28210	Gear Housing Assembly #210
20038	1/2" NPI Connection - PVC - fits Suction side of	28211	Gear Housing Assembly #215
	Pump Head and Back Ck. VIv. Assy. (per connection)	28212	Gear Housing Assembly #220
20039	1/2" NPI Connection - PVC - fits Discharge side of	28213	Gear Housing Assembly #230
	Pump Head and Strainer Assy. (per connection)	28214	Gear Housing Assembly #240
J20560	Ball Check (ceramic)	28215	Gear Housing Assembly #260
21829	Drive Bracket Assy. S100	28216	Gear Housing Assembly #280
21960	Bronze Bushing (right)	28217	Gear Housing Assembly #2-100
21961	Bronze Bushing (left)	28218	Gear Housing Assembly #2-120
21962	Bronze Bushing (center)	28521	Grommet
21971	Diaphragm Shaft Bushing	28800	Head, Clear PVC
22255	Cam Bearing Assy. S100 - 3, 7, 15, 30 GPD	28803	Head, Polypropylene
22256	Cam Bearing Assy. S100 - 24 GPD	28896	Head Assy, (SSI-IFE-SSI-1/4" S/D)
22257	Cam Bearing Assy. S150 - 68, 100 GPD	28897	Head Assy, (PVC-V I-C-1/2" S/D)
23700	Shatt Collar38 Small	28899	Head Assy, (PP-V I-C-1/2" S/D)
23701	Shatt Collar38 Large	28902	Head Assy, (PVC-V I-C-3/8" S/D)
J24269	Oil (quart)	29036	Head Assy, (PP-V I-C-3/8" D)
24450	Current Interrupter - S100 - 115V	29230	Motor Housing
24452	Current Interrupter - S200 - 115V	29232	Pump Housing (Duplex)
24453	Current Interrupter/Plug Receptacle S200 - 115V	29313	Main Housing 10, 15, 20, 30, 40, 60, 100 GPD
24454	Current Interrupter/Plug Receptacle/Bottom Plate	29314	Main Housing 120 GPD only
	(Standard) 115V	30460	Output Adjustment Knob
24481	Current Interrupter - S100 - 230V	30467	Output Adj Knob Asm S150
24482	Current Interrupter - S200 - 230V	30468	Output Adj Knob Asm S100
24820	Cord Assy 115V, 60 Hz	J30496	Housing - S100 - 3, 7, 15, 30 GPD
24821	Cord - 230V, 50 or 60 Hz	J30497	Housing - S100 - 24 GPD
J24960	Coupling Nut, PVC 1/2" (Standard)	J30498	Housing - S150, 68, 100 GPD
24961	Coupling Nut, PP 1/2"	J30503	Motor - 115V, 60 Hz, S200
24963	Coupling Nut, PVC 3/8"	J30504	Motor - 230V, 50 Hz, S200
25180	Motor Cover	J30505	Motor - 230V, 60 Hz, S200
25704	Diaphragm, CSPE	J30507	Kit, Bleed, Valve, PVC/HPY/ 3/8
25706	Diaphragm, Viton	J30509	Kit, Bleed, Valve, PVC/VTN/ 3/8
25707	Diaphragm, PTFE Coated	J30510	Kit, Bleed, Valve, PVC/TFE/ 3/8
J26780	Injection Fitting, PVC 3/8"	J30511	Kit, Bleed, Valve, FPP/CSPE/ 3/8
26781	Injection Fitting, PVC 1/2"	J30513	Kit, Bleed, Valve, FPP/VTN/ 3/8
26858	Bulkhead Fitting (PP-1/2")		
26867	Bulkhead Fitting (PP-3/8")		

SERIES 100, 150, 100D, 150D AND 200 PARTS PRICE SCHEDULE

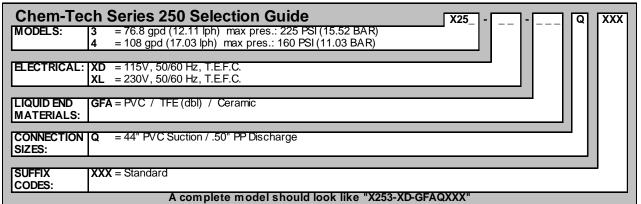
Part Number	Description EDE TEST () (2)	Part Number	
J30514	Kit, Bleed, Valve, FPP/TFE/ 3/8	41588	Anti-Siphon Valve (PVC-VT-1/2")
J30515	Kit, Bleed, Valve, PVC/HPY/ 1/2	41624	Anti-Siphon Valve (PVC-CSPE-1/2") (Standard)
J30517	Kit, Bleed, Valve, PVC/VTN/ 1/2	41657	Back Check Valve Assy (PVC-CSPE-C-3/8")
J30518	Kit, Bleed, Valve, PVC/TFE/ 1/2	J41658	Back Check Valve Assy (PVC-CSPE-C-1/2")
J30519	Kit, Bleed, Valve, FPP/CSPE/ 1/2	41659	Back Check Valve Assy (PP-VT-C-1/2")
L3300V03-FPP	Kit, Bleed, Valve, FPP/VTW 1/2	41661	Back Check Valve Assy (PVC-VT-C-1/2")
J30522	Kit, Bleed, Valve, FPP/TFE/ 1/2	41665	Anti-Scale Injector (PVC-CSPE-1/2")
31081	Locking Lever - \$100, 215, 230, 260	41666	Double Ball Ck VIv Cart Assy (PVC-3/8") Suct
31082	Locking Lever 20, 40, GPD S200	J41667	Double Ball Ck VIv Cart Assy (PVC-1/2") Suct
31083	Locking Lever - \$150, 280, 2-100, 2-120	41668	Double Ball Ck VIv Cart Assy (PVC-3/8") Disch
32520	Motor - 7 SPM, 115V, 60 Hz, 003	J41669	Double Ball Ck VIv Cart Assy (PVC-1/2") Disch
32521	Motor - 13 SPM, 115V, 60 Hz, 007	J41694	Back Check Valve Assy (PVC-CSPE-C-1/2")
32522	Motor - 25 SPM, 115V, 60 Hz, 015	41695	Back Check Valve Assy (PVC-VT-C-3/8")
32523	Motor - 51 SPM, 115V, 60 Hz, 024/030/068	41696	Back Check Valve Assy (PP-VT-C-3/8")
32524	Motor - 7 SPM, 230V, 60 Hz, 003	41705	6" Ck VIv Inj Assy (PVC-CSPE-C-3/8")
32525	Motor - 13 SPM, 230V, 60 Hz, 007	41707	6" Ck VIve Inj Assy (PVC-VT-C-3/8")
32526	Motor - 25 SPM, 230V, 60 Hz, 015	41708	6" Ck VIv Inj Assy (PVC-VT-C-1/2")
32527	Motor - 51 SPM, 230V, 60 Hz, 024/030/068	41709	6" Ck VIv Inj Assy (PP-VT-C-3/8")
32528	Motor - 7 SPM, 230V, 50 Hz, 003	41710	6" Ck VIv Inj Assy (PP-VT-C-1/2")
32529	Motor - 13 SPM, 230V, 50 Hz, 007	41720	Anti-Siphon Valve (PVC-CSPE-1/2" NPT)
32530	Motor - 25 SPM, 230V, 50 Hz, 015	41786	Anti-Siphon Valve (PVC-VT-1/2" NPT)
32531	Motor - 51 SPM, 230V, 50 Hz, 024/030/068	41795	Back Check Valve Assy (PVC-CSPE-C-1/2" x 1/2" NPT)
32532	Motor - 70 SPM, 115V, 60 Hz, 100	J42020	Head Bolt Washer SS .20 x .38
32533	Motor - 70 SPM, 230V, 50 Hz, 100	J42030	Fiber Washer
32535	Motor - 70 SPM, 230V, 60 Hz, 100	42031	Washer, Fiber
J34379	Backing Plate	J60030	Head Assy (SAN-CSPE-C-3/8" D)
34405	Plate, Motor Cover	J61222	Kit, 5 Function Valve incl L380DT03-PVC for Series 100/200
34423 34532	Back Plate	J61271	Kit, 5 Function Valve incl L380FT03-PVC for Series 200
	Oil Filler Plug w /Cap	J61539	Kit, 5 Function Valve incl L380DT02-PVC for Series 100/200
J37073 37080	Screw Motor Cover Output Adjust Screw 10, 20, 40 GPD	J61502 J61503	Kit, Oil Drain Plug (includes J37002 & J42030) Kit, S200 Back Plate Screws (5 - J37017, 5 - J42030)
37081		J61504	Kit, S200 Motor Cover Hdw e (2 - J37002, 2 - J42030)
37083	Output Adjust Screw 15, 30, 60 GPD	J61505	
37088	Output Adjust Screw 80, 100, 120 GPD Output Adj Screw - S150	J61506	Kit, S100 Motor Cover Hdw e (4 - J37032, 2 - J37073) Kit, S100 Cam Bearing Set Screw (2 - 37047)
37089	Output Adj Screw - S100	J61507	Kit, S100 Motor Mount Hdw e (3 - 37047)
37300	Oil Seal	J61508	Kit, S200 Main Housing Screw
J37440	Valve Seat, CSPE	001000	(2 - 37021, 2 - J42083, 2 - 42031)
J37442	Valve Seat, Viton	J61509	Kit, S200 Shaft Coupling Motor (1 - 24966, 1 - 37060)
37886	Diaphragm Shaft	J61510	Kit, S200 Shaft Coupling Gear (1 - 24967, 1 - 37061)
38080	Locking Sleeve	J61511	Kit, Screw Motor Cover (2 - J37073)
38980	Diaphragm Return Spring	J61512	Kit, Valve Seats CSPE (4 - J37440)
38981	Coupling Spring	J61513	Kit, Ball Checks (4 - J20560)
38984	Valve Spring - top - light	J61515	Kit, Valve Seats Viton (4 - J37442)
J38985	Valve Spring	J61516	Kit, Head Mounting Bolts (4 - J37005, 4 - J42020)
J60717	Foot Valve & Strainer Assy (PVD-CSPE-C-3/8")	J61518	Kit, Gasket TFE (4 - J27903)
J60729	Foot Valve & Strainer Assy (PVD-CSPE-C-1/2")	L9906700-000	Sinker
J60718	Foot Valve & Strainer Assy (PVD-VT-C-3/8")		
J60730	Foot Valve & Strainer Assy (PVD-VT-C-1/2")		SPECIAL ADAPTERS
J41540	Valve Housing Discharge, PVC 1/2"	20013	
41541	Valve Housing Discharge, PP 1/2"		'
41543	Valve Housing Discharge, PVC 3/8"		STAINLESS STEEL PUMP ACCESSORIES
41544	Valve Housing Discharge, PP 3/8"	28896	316 SS Head Assy - Double Check VIv
J41548	Valve Housing Suction, PVC 1/2"		(TFE, SS) 1/4" FPT Conn
J41834	Valve Housing Suction, PP 1/2"	J41656	316 SS Double Back Ck VIv Assembly
41551	Valve Housing Suction, PVC 3/8"		(TFE, SS) 1/4" FPT Conn
J41835	Valve Housing Suction, PP 3/8"	J40095	316 SS Strainer Assy 1/4" FPT Conn
		J41640	316 SS Suction Valve 1/4" FPT
		J41641	316 SS Discharge Valve 1/4" FPT



Series 250

The Series 250 is a mechanically activated, heavy duty diaphragm feed pump that provide excellent efficiency under strenuous conditions. The Series 250 combines the power and repeatability of piston pumps with the chemical resistance of diaphragm pumps for high pressure applications.





IMPORTANT NOTES:

Part No.

- KOPkits are not available for this model.
- Shipping weight is 21 lbs.

STANDARD ACCESSORIES:

Description

Models with tubing connections come with a footvalve/strainer/weight, 4' of suction tubing, 8' of discharge tubing, and an injection valve.

Models with piping connections come with a strainer and an injection valve.

SERIES 250 PARTS PRICE SCHEDULE

Description

raitivo.	Description	raitivo.	Description
00006	Suction Tubing (per foot) 7/16" OD	29230	Motor Cover / 253 - 254
J00012	Polypropylene Tubing, 1/2" OD - Discharge (per foot)	29313	Pump Housing
00013	Polypropylene Tubing, 1/2" OD-Discharge (per ft) - Black	30460	Output Adjustment Knob
J20560	Ball Check, Ceramic	31084	Locking Lever
23705	Collar - Model 253	32545	Motor, 115/230V, 50/60 Hz, TEFC
23706	Collar - Model 254	34532	Oil Filler Plug with Cap
J24269	Oil (quart)	37084	Adjustment Screw
24820	Cord Assembly, 115V, 60Hz	37886	Diaphragm Shatt
24821	Cord, 230V, 50-60 Hz	J41658	Back Check Valve Assy (PVC-CSPE-C-1/2")
J24960	Coupling Nut - PVC 1/2"	J41667	Double Ball Check Valve Cart Assy (PVC 1/2") Suction
25681	Diaphragm Assembly - Model 253	41668	Double Ball Check Valve Cart Assy (PVC 3/8") Disch
25682	Diaphragm Assembly - Model 254	J41669	Double Ball Check Valve Cart Assy (PVC 1/2") Disch
J27903	Gasket, IFE	J42020	Bolt Washer (4 required) SS
28220	Gear Housing Assembly - Model 253/254	J60729	Foot Valve & Strainer Assy (PVD-CSPE-C-1/2")
J28815	Pump Head, PVC - Model 253	J61272	Kit, 5 Function Valve incl L380KT03-PVC for Series X253
28816	Pump Head, PVC - Model 254	J61516	Kit, Head Mounting Bolts (4 - J37005, 4 - J42020)
J28919	Head Assembly, PVC - Model 253 - 1/2"	J61518	Kit, Gasket TFE (4 - J27930)
28920	Head Assembly, PVC - Model 254 - 1/2"		



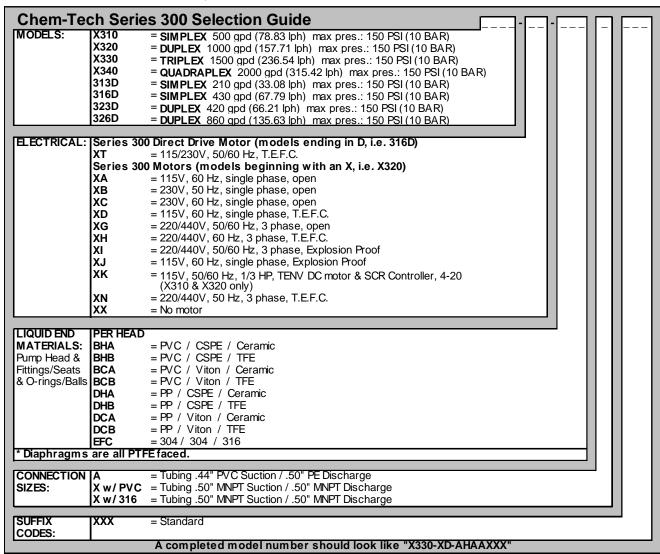
Series 300

- Output adjustable from zero to maximum capacity without shutdown
- Completely self-priming
- Corrosion resistant solution-handling components
- Pump assembly has lifetime lubricated mechanical components
- Heavy duty plastic housing for increased corrosion resistance
- Heavy duty speed reducer with oil sight gauge
- Metal and fabric reinforced diaphragm for extra long life
- Maximum operating pressure to 150 psi / 10 BAR

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

Remember that liquid end adders must be multiplied by the number of pump heads.

PLEASE ADD A CRATING FEE OF \$50.00 NET PER PUMP WHEN SHIPPING AIR OR OCEAN FREIGHT.



IMPORTANT NOTE: KOPkits not available for this model.

STANDARD ACCESSORIES:

Models with tubing connections come with a foot valve/strainer/weight, 4' of suction tubing, 8' of discharge tubing, and an injection valve.

Models with piping connections come with a strainer and an injection valve.

SERIES 300 PARTS PRICE SCHEDULE

```
Part Number
                 Description
        00006
                 Suction Tubing (per foot) 7/16" OD - PVC
        80000
                 Discharge Tubing Polyethylene (per foot) 1/2" OD
        J20560
                 Ball Check (Ceramic)
        20700
                 Base-Simplex
                 Drive Bearing
        20843
        20844
                 Main Shaft Bearing
        20980
                 V-Belt
                 Head Bolt, 1/4" - 20 x 2,2, Stainless Steel
        21407
        21409
                 Head Bolt, 1/4" - 20 x 10,5, Stainless Steel
                 Bracket
        21821
        22253
                 Cam
        23702
                 Locking Collar
                 Collar, Suction Swivel Assy
        J23723
        J24960
                 Coupling Nut, PVC 1/2" (Standard)
                 Diaphragm, PTFE Coated
        25712
        J26780
                 Injection Fitting
        J27903
                 Gasket, TFE
        27906
                 Gasket, Viton
        28661
                 Belt Guard
        J28814
                 Head, PVC
        28809
                 SST Head 304
                 Polypropylene Head
        28813
        28939
                 Head Assembly, Acrylic (SAN-CSPE-C) 1/2"
         28940
                 Head Assembly, PVC (PVC-CSPE-C)
Polypropylene Head Assy
        29074
        29107
                 SST Head Assy 304
                 Housing Back Plate
         29237
        29238
                 Pump, Housing Simplex
                 Pump Housing, Assembly w/Fitting & Tubing (SAN-CSPE-C)
        29297
        J30120
                 Reducer Input Shaft Key
        30121
                 Main Shaft Key
        30461
                 Output Adjusting Knob
         32590
                 Motor (Standard) 1/3 hp, 115V, 60Hz ODP
                 Adjusting Screw Lock Nut
         32970
                 O Ring Seal - CSPE
        33081
         33761
                 Output Indicator Pin
                 Pulley (4-step) - Motor
Pulley (4-step) - Reducer
         35220
        35221
                 Speed Reducer 60:1
        J35918
                 Cam Bearing Locking ring
        J36395
        J37440
                 Valve Seat, CSPE
                 Valve Seat, Viton
        J37442
        37447
                 Valve Seat, Viton
        37887
                 Main Shaft
                 Output Adjusting Shaft
        37888
         37889
                 Diaphragm Shaft
                 Diaphragm Return Spring
         38982
        38983
                 Valve Spring
        39180
                 Sprocket - Motor
         39181
                 Sprocket - Reducer
                 Strainer Assembly - PP - CSPE - C - 1/2"
        40087
                 Valve Housing PVC 1/2"
        J41548
        41565
                 Valve Housing Discharge PVC
        41566
                 Valve Housing Suction PVC
        41568
                 Valve Seat, Suction - PVC
        41637
                 Back Check Valve Assembly (PVC - CSPE - C - 1/2")
        41638
                 Back Check Valve Assy (PVC - CSPE - C - 1/2")
        41677
                 Valve Seat Suction Assembly
                 Kit, Gasket CSPE (2 - 27905)
        J61519
                 Kit, Valve Seat CSPE (2 - 37446)
        J61520
        J61521
                 Kit, Acorn Nut Set (10 - 32960, 10 - 42022)
                 Kit, Output Indicator (2 - 37030, 1 - 34381)
        J61522
        J61523
                 Kit, Coupling Chain (1 - 24976, 1 - 33765, 1 - 36400)
        J61526
                 Kit, Valve Components (2 - 37446, 2 - 27905, 2 - L1000500-ALA)
        J61527
                 Kit, Suction Swivel Base (1 - 20705, 1 - 37040)
        J61528
                 Kit, Head Bolt 2,2" (2 - 21407, 2 - 32960, 2 - 42022)
L1000500-ALA
                 Ball Check - Ceramic
```



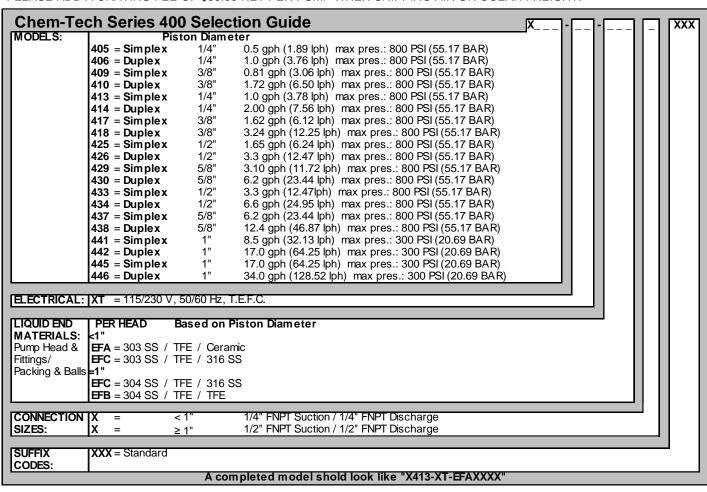
Series 400

- Precise metering over entire pressure and output range
- Fully adjustable output capacities from 0 to 34 gph / 128.52 lph, depending on model*
- Rugged piston design, corrosion resistant metals and solution handling components for the most severe applications
- Heavy-duty plastic pump body for increase corrosion resistance
- Operating pressures up to 800 psi / 55.17 BAR
- Low maintenance design
- Available in Simplex, or Duplex for multi-chemical feed
- Metering adjustment accomplished without shutdown

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

Remember that liquid end adders must be multiplied by the number of pump heads.

PLEASE ADD A CRATING FEE OF \$50.00 NET PER PUMP WHEN SHIPPING AIR OR OCEAN FREIGHT.



^{*}Actual feed rates will vary depending on solution viscosity and actual operating pressure



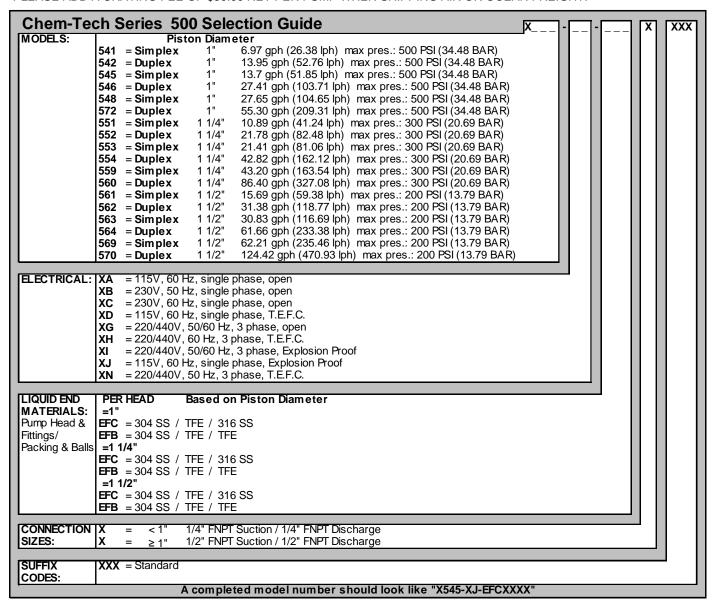
Series 500

- Completely adjustable while running
- Easily field calibration
- Materials of construction for metering chemicals for industrial and agricultural uses
- Consistent repeatability of output
- Easy maintenance due to interchangeability or most wetted components
- Available in Simplex or Duplex configurations
- Wide range of output and pressure capability

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

Remember that liquid end adders must be multiplied by the number of pump heads.

PLEASE ADD A CRATING FEE OF \$50.00 NET PER PUMP WHEN SHIPPING AIR OR OCEAN FREIGHT.



SERIES 400 and SERIES 500 PARTS

SERIES 400 PARTS

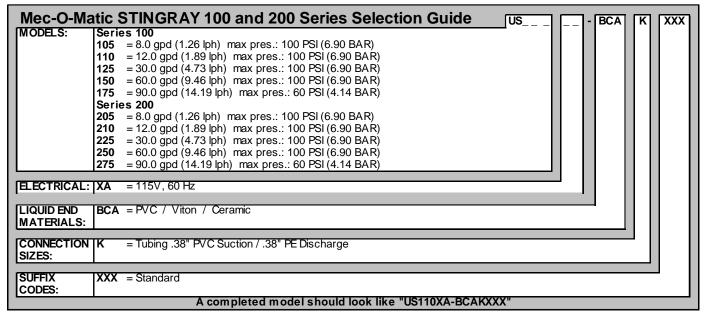
Part Number	Description	Part No.	Description
J20723	Pump Base (Simplex)		F-PUMP HEAD
20703	Pump Base (Duplex)	28821	1/4" Bore Stainless Steel S-Series
20845	Main bearing (closed)	28823	3/8" Bore Stainless Steel S-Series
21965	Main Shaft Motor Bushing	28825	1/2" Bore Stainless Steel S-Series
21964	Outboard Bearing	28826	5/8" Bore CRS
26810	Grease Relief Fitting	28827	5/8" Bore Stainless Steel S-Series
26811	Grease Fitting	J24960	Coupling Nut (2 req)
28200	Gear/Shaft Assy - 30RPM, 115V OPD Simp	J41667	Double Ball Check Valve Cartridge (Suction)
28202	Gear/Shaft Assy - 60 RPM, 115V OPD Simp	J41669	Double Ball Check Valve Cartridge (Discharge)
29246	Housing Set Assy S400 Simplex & Duplex		SERIES 500 PARTS
29249	Housing Set Assy S400 Duplex	00570	
30125	Main Shaft Key	20579	SS Ball 7/16" (2 req)
32632 32634	Motor Assy w/Shaft 60 RPM 115V ODP-Simp Motor Assy w/Shaft 30 RPM 115V ODP-Dup	20580	SS Ball 11/16" (2 req)
32645	Motor Assy w/Shaft 60 RPM 115V ODP-Dup	20704 21970	S500 Base (Simplex or Duplex) Bronze Bushing
32646	Motor Assy w/Shaft 30 RPM 115V ODP-Simp	25004	Delrin Motor Coupling Assy
32648	Shaft Assy, Coupled	29290	Housing Set Assy 115 SPM Simplex-Duplex
J32749	MTR, 30 RPM 115/230V TEFC	29291	Housing Set Assy 115 SPM Duplex
J32750	MTR, 60 RPM 115/230V TEFC	29247	Housing Set Assy S500 Simplex-Duplex
J32943	Mounting Nut (4 req)	29248	Housing Set Assy S500 Duplex
32971	Adjustment Screw Lock Nut	32590	Motor 1/3" HP 56 FR, 115V, Open
33764	Slide Pin	33082	O-Ring, Head Cap, VT-1,859 x ,139
36396	Main Shaft Locking Ring	33083	O-Ring, Head Cap, VT-2,359 x ,139
J37054	Set Screw 1/4" - 20 x 3/4"	33767	Pin - Suction Check Valve
37090	Adjustment Screw	J35913	Speed Reducer, 115 SPM
37305	PVC Seal (2 reg)	J35916	Speed Reducer, 57 SPM
37891	Main Shaft (Duplex)	J35918	Speed Reducer, 29 SPM
38221	Slide (Simplex / Duplex)	37053	Piston Set Screw
38224	Slide Arm Assembly (Simplex)	37306	PVC Seal (2 req)
38225	Slide Arm Assembly (Duplex)	38710	Spacer, packing 1"
38988	Valve Spring (2 req)	38711	Spacer, packing 1-1/4"
41672	Discharge Check Valve Assy 1/4" FPT	38712	Spacer, packing 1-1/2"
41674	Suction Check Valve Assy 1/4" FPT	38986	Spring-Packing Compression 1"
J61530	Kit, Main Shaft (Simp, TEFC) (1 - 37899,	38987	Spring-Packing Compression 1-1/4" & 1-1/2"
104504	3 - D4844-31)	38989	Valve Spring
J61531	Kit, Main Bearing Cam (1 - 22263, 1 - 33771)	41673	Discharge Check Valve Assy 1/2" FPT
J61532	Kit, Housing Set Hdw e (2 - 21407, 2 - 21406,	41675	Suction Check Valve Assy 1/2" FPT
14000400 ALA	2 - 42022, 2 - 42035, 4 - 32942)	J61523	Kit, Coupling Chain (1 - 24976, 1 - 33765, 1 - 36400)
L1000400-ALA L1000500-ALA	Ceramic Ball 1/4" (2 req) Ceramic Ball 3/8" (2 req)	J61531 J61536	Kit, Main Bearing Cam (1 - 22263, 1 - 33771) Kit, Coupling Shaft (1 - 24984, 1 - 37059, 1 - 37047)
L1000300-ALA	A-PISTON HEAD ASSEMBLY	J61537	Kit, Main Shaft (1 - 30121, 1 - 37894)
28925	5/8" Bore CRS	301337	G-SERIES 500 PUMP HEAD
28929	5/8" Bore Stainless Steel	28829	1" Bore Stainless Steel S-SERIES
28930	1/2" Bore Stainless Steel	28831	1-1/4" Bore Stainless Steel S-SERIES
28931	3/8" Bore Stainless Steel	28831	1-1/2" Bore Stainless Steel S-SERIES
28932	1/4" Bore Stainless Steel		G-SERIES 500 PUMP HEAD CAP
	B-PISTON	28841	1" Stainless Steel
34180	1/4" Diameter 303 SS	28843	1-1/4" & 1-1/2" Stainless Steel
34182	3/8" Diameter 303 SS		H-SERIES 500 PISTON
34184	1/2" Diameter 303 SS	34188	1" Diameter 303 SS
34186	5/8" Diameter 303 SS	34189	1-1/4" Diameter 303 SS
	C-PACKING NUT	34190	1-1/2" Diameter 303 SS
32972	1/4" Bore		I-SERIES 500 PACKING SET
32973	3/8" Bore	33424	1" Bore (Neoprene - Standard)
32974	1/2" Bore	33425	1-1/4" Bore (Neoprene - Standard)
32975	5/8" Bore	33426	1-1/2" Bore (Neoprene - Standard)
22420	D-PACKING SET	33431	1" Bore (TFE - Optional)
33420 33421	1/4" Bore (Neoprene - Standard) 3/8" Bore (Neoprene - Standard)	33432 33433	1-1/4" Bore (TFE - Optional) 1-1/2" Bore (TFE - Optional)
33422	1/2" Bore (Neoprene - Standard)	JJ433	J-SERIES 500 PISTON HEAD ASSEMBLY
33423	5/8" Bore (Neoprene - Standard)	28934	1" Bore Stainless Steel
33427	1/4" Bore (TFE - Optional)	28935	1-1/4" Bore CRS
33428	3/8" Bore (TFE - Optional)	28936	1-1/4" Bore Stainless Steel
33429	1/2" Bore (TFE - Optional)	28937	1-1/2" Bore CRS
33430	5/8" Bore (TFE - Optional)	28938	1-1/2" Bore Stainless Steel
22.30	E-GREASE GLAND		
28380	1/4" Bore		*Series 400-500 1" parts are interchangeable.
28380	3/8" Bore		
28381	1/2" Bore		
28381	5/8" Bore		

EC-O-MATIC DIAPHRAGM PUMPS

STINGRAY Series 100 & 200

- Versatility: range of models, offering feed rates from 8 GPD to 90 GPD, and operating pressures up to
- Durability: rugged, chemical-resistant plastic casing, and corrosion-resistant rubber and plastic solution handling components
- Long Life: PTFE coated diaphragm and viton seals, for long life even in highly corrosive
- Reliability: spring-loaded check valves for high reliability.





- Maximum GPD Rating is at Zero PSI.
- Standard material of construction is: PVC head/fittings, Viton Seats, PTFE faced diaphragm, spring loaded ceramic balls, 4 ft. 3/8" PVC suction tubing, 8 ft. 3/8" polyethelene discharge tubing.
- KOPkit includes head assembly, diaphragm and head screws.
- Shipping weight is 8 lbs

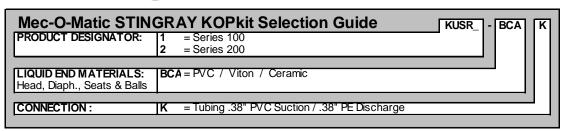
STINGRAY Electro Mechanical Series



Mec-O-Ma	Mec-O-Matic STINGRAY ELECTRO MECH. Selection Guide		
MODELS:	105		
TIMER:	D = 24 Hour Timer W = 7 Day Timer		
ELECTRICAL:	XA = 115V, 60 Hz		
LIQUID END MATERIALS:	BCA = PVC / Viton / Ceramic		
CONNECTION SIZES:	K = Tubing .38" PVC Suction / .38" PE Discharge		
SUFFIX CODES:	XXX = Standard		
A completed model should look like "US110DXABCAKXXX"			

- 1. Available in 115V 60 cycle only.
- 2. Maximum GPD Rating is at Zero PSI.
- 3. Standard material of construction is: PVC head/fittings, Viton Seats, PTFE faced diaphragm, spring loaded ceramic balls, 4 ft. 3/8" PVC suction tubing, 8 ft. 3/8" polyethelene discharge tubing.

MEC-O-MATIC KOPKits





STINGRAY SERIES PARTS PRICE SCHEDULE

Part No.	Description	Part No.	Description
41403	Discharge Tubing 8 ft PE 3/8"	U8800656	Kit, SR Drive Block Conversion
J41424	Suction tubing 4 ft PVC 3/8"	U8800701	Head Assembly Series 100
U0810545	Spring Clutch	U8800703	Head Assembly Series 200
U0811279	Pump Head Series 200	U8800704	Valve Kit Series 200 (viton)
U0817888	Shoulder Screw 10 - 24 X ,58	U8800729	Kit, Head Bolt S100 (4 - U0810036, 4 - L9801300-188)
U0811861	Head Cover Series 100	U8800730	Kit, Head Bolt S200 (4 - U0813501, 4 - L9801300-188)
U0812318	Pump Head Series 100	U8800732	Kit, Foot Pads (4 - U0818379)
U0814211	Compression Nut	U8800735	Kit, Spring (2 - U0812915)
U0818143	Drive Block	L9900700-00	Strain Relief
U0818148	Drive Plate	U0818406	Motor, SR 105/205, 120V, 60Hz
U0818215	Motor Housing	U0818407	Motor, SR 105/205, 240V, 50/60Hz
U0818226	Regulator Housing	U0818408	Motor, SR 110/210, 120V, 60Hz
	Regulator Top Cover	U0818409	Motor, SR 110/210, 240V, 50/60Hz
U0818256	Output Adjustment Knob	U0818410	Motor, SR 125/225, 120V, 60Hz
U0818257	Wear Plate	U0818411	Motor, SR 125/225, 240V, 50/60Hz
U0818258	Adjustment Knob Bushing	U0818412	Motor, SR 150/250, 120V, 60Hz
U0818339	Adjustment Plate	U0818413	Motor, SR 150/250, 240V, 50/60Hz
U0818340	Adjustment Shaft Assembly	U0818414	Motor, SR 175/275, 120V, 60Hz
U8800412	Tubing Assy, 15', 3/8"	U0818415	Motor, SR 175/275, 240V, 50/60Hz
U8800456	Foot Valve Strainer 3/8" OD Tubing (viton)	24820	Pow er Cord 120V
U8800470	Diaphragm Kit	24821	Pow er Cord 240V
U8800525	Relief/Release Plunger Kit (viton)	U0818561	Timer Assy, 24 hr (SR Electro Mech)
U8800554	Cartridge Valve Kit Series 100 (viton)	U0818562	Timer Assy, 7 Day (SR Electro Mech)
U8800606	Injection Fitting	U0818564	Motor Fan SR 105, 110, 205, 210

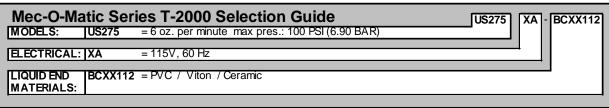
MISCELLANEOUS TUBING

Part No.	Description	Part No.	Description
U0811307	Tube PE, Transparent, 1/4" OD X 100 ft.	U0818324	Viton Peri. Tube, 3/8" OD X 9"
J41447	Tube PE, White, 3/8" OD X 100 ft.	U0818654	Nozzle Assembly
LI0818134	Viton Peri Tuhe 7/16" OD X 9"	110818994	Tube PF Black 1/4" OD X 15 ft

MEC-O-MATIC WAREWASH PUMPS

Series T-2000 Misting System

- Consistent misting pattern for maximum effectiveness.
- Diaphragm metering pump provides capacity of 180cc/6 oz. per minute at 100 PSI.
- Wide angle misting nozzle provides optimum pattern.



- 1. Standard system includes SR275 pump, 24 hour timer, spray nozzle and tubing in a lockable metal cabinet with an industrial gray finish.
- 2. Available in 115 volt only.

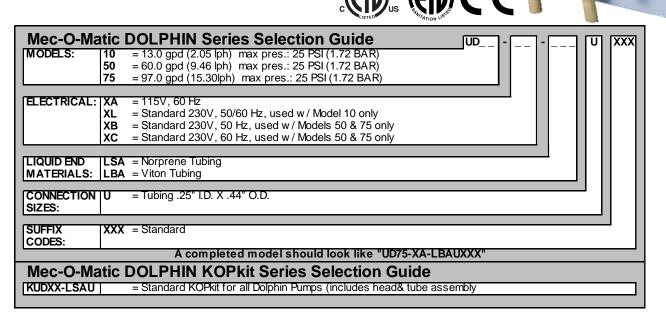




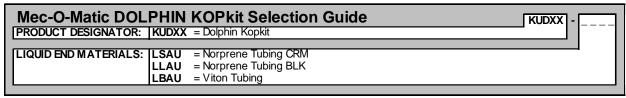
MEC-O-MATIC PERISTALTIC PUMPS

Dolphin Series

- 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.



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.



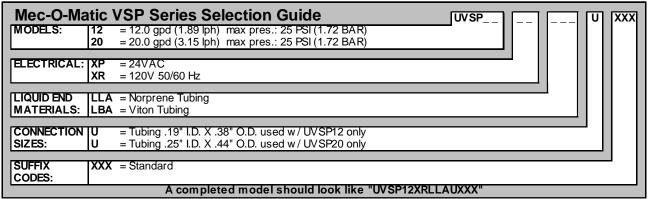
DOLPHIN SERIES PARTS PRICE SCHEDULE

MEC-O-MATIC PERISTALTIC PUMPS

VSP Series

- 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.





Shipping weight for all VSP pumps is 6 lbs.

VSP SERIES PARTS PRICE SCHEDULE

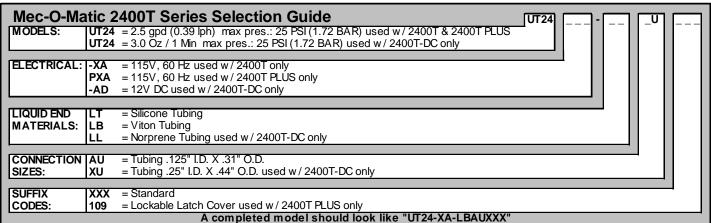
Part Number Description J60552 Strainer w/o Valve Collar VSP - 12 U0817122 U0817123 Collar VSP - 20 Hose Clamps U0817742 U0817923 Sw itch 24820 Pow er Cord 120 V U0819142 Front Housing U0819143 Rear Assembly L9710200-000 Lead Assembly U0818083 Hole Plug U0818305 Printed Circuit Board 24V Printed Circuit Board 120V U0818306 U0818320 Pow er Cord 24V Fuse 24V, 1/2 Amp U0818463 U0818464 Fuse 120V, 1/8 Amp U0818667 Gearmotor Kit Tube Kit VSP - 20 U7013397 U8800431 15" X 1/4" Poly Tubing U8800651 Pump Head Kit U8800700 Tube Kit VSP - 12 U8800712 IPF Auto Clean Injection Fitting Kit, Motor Mount (2 - U0818666, 2 - 32946, 2 - U0811297) U8800739 U8800742 Kit, Pump Head Bearings (2 - U0817121) L9900700-000 Strain Relief

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





- 1. 2400T comes standard with 24 hour mechanical timer. 2400T plus and DC utilizes a 7 day, 8 event programmable timer
- 2. 2400T DC Pump requires 8 "D" cell batteries (not included).
- 3. Shipping weight is 7.5 lbs.

2400T & T PLUS SERIES PARTS PRICE SCHEDULE

Part No.	Description	Part No.	Description
J60552	Strainer Assembly w/o Valve	U0819143	Pump Housing (rear)
U0814047	Wire Clip	U0818061	Toggle Sw itch
U0817131	Tubing Assy 5/16" X 9" Silicone	U0818084	Lead Assembly 4.5" Yellow (2) Timer
U0817133	Pump Cover (Backing Plate)	U0818564	Fan
U0817742	Hose Clamp	U0818602	Gearmotor Assembly
U0817888	Pump Head Screw	U0818740	Timer (2400T Plus)
U0817942	Screw 10 - 30 X .688", Motor Mount	U8800431	15' X 1/4" PE Tubing
U0817952	Timer (2400T)	U8800712	Injection Fitting
U0818018	Indicator Light	U8800753	Pump Head Assembly Kit (No Tubing)
U0819145	Pump Housing (front-2400T Plus)	U0812955	Hex Screw 8 - 32 X 1/4"
U0819144	Pump Housing (front-2400T)	L9900700-000	Strain Relief

2400T DC SERIES PARTS PRICE SCHEDULE

Part No.	Description	Part No.	Description
U0812955	Screw 6 - 32 X .25" PHP	U0818902	Battery Holder Assembly
U0817888	Shoulder Screw	U0818903	Low Battery Board Assembly
U0818026	Spacer SST (Motor)	U0818904	Ground Wire Connection
U0818061	Toggle Switch	U0819037	12V DC Timer LO AMP
U0818666	Screw 8 - 32 X 1.25 FHP	U8800490	Injection Fitting
U0818881	12V DC Motor	U8800637	7/16" Tubing Kit (Peristaltic)
U0818888	PVC Spacer (Timer)	U8800651	Pump Head Assembly Kit (No Tubing)
U0818895	1/4" X 20' Tubing PE	U8800700	3/8" Tubing Kit
U0818897	Housing Assembly w/lock	U8800742	Kit, Pump Head Bearings (2 - U0817121)
U0818901	Lock Nuts (10-24 NY - Lock)		,

Policies and Procedures

1. Manufacturer's Equipment Warranty

- a. Pulsafeeder warrants all pumps and controllers of its manufacture to be free of defects in material or workmanship. Liability under this policy extends for 24 months from date of shipment from the factory. The manufacturer's liability is limited to repair or replacement of any failed equipment or part which is proven defective in material or workmanship upon manufacturer's examination. This warranty does not include removal or installation costs and in no event shall the manufacturer's liability exceed the selling price of such equipment or part.
- b. The manufacturer disclaims all liability for damage to its products through improper installation, maintenance, use or attempts to operate such products beyond their functional capacity, intentionally or otherwise, or any other unauthorized repair. The manufacturer is not responsible for consequential or other damages, injuries or expense incurred through the use of its products.
- c. The above warranty is in lieu of any other warranty, whether expressed or implied. The manufacturer makes no warranty of fitness or merchantability. No agent of ours is authorized to provide any warranty other than the above.

2. Pulsafeeder's Parts and Accessory Warranty

- Pulsafeeder, Inc. warrants parts and accessories provided to be free of defects in material or workmanship. Unless otherwise noted below, liability under this policy extends for 90 days from date of shipment from the factory when sold as service parts. (Replaceable elastomeric parts are expendable and are not covered by any warranty either expressed or implied.)
- b. This policy is extended to a full 12 months from the date of installation or 18 months from shipment from the factory whichever comes first on the following accessories;

Intelliscan

Digital Glycol Feeders

Analog Timers

Water Meters

Flow Controllers

- c. MicroTrac and MicroVision toroidal probes are warranted for 24 months from date of shipment from the factory when purchased in conjunction with the controller.
 - All other electrodes/probes and sensors are considered maintenance items and such are warranted for six (6) months from the date of shipment when purchased in conjunction with the controller.
 - Any electrodes/probes and sensors purchased as spare parts are warranted for 90 days from date of shipment.
- d. The manufacturer's liability is limited to repair or replacement of any failed equipment or part which is proven defective in material or workmanship upon manufacturer's examination. This warranty does not include removal or installation costs and in no event shall the manufacturer's liability exceed the selling price of such equipment or part.
- e. The manufacturer disclaims all liability for damages to its products through improper installation, maintenance, use or attempts to operate such products beyond their functional capacity, intentionally or otherwise, or any unauthorized repair. The manufacturer is not responsible for consequential or other damages, injuries or expense incurred through the use of its products.
- f. The above warranty is in lieu of any other warranty, whether expressed or implied. The manufacturer makes no warranty of fitness or merchantability. No agent of ours is authorized to provide any warranty other than the above.

3. Process for All Returned Goods

 Please contact our Customer Service Department to request a RMA (Return Material Authorization) number prior to returning any goods. The following information will be required:

Billing and ship-to address

Model number and serial number

Contact name and phone number

Reason for return

Purchase order (where applicable)

A packing slip will be provided to the shipper and MUST accompany the product being returned. Packages received without our proper packing list will be refused by the receiver.

- b. All material must be returned freight prepaid.
- c. All material must be properly packaged to prevent damage in shipment.
- d. All products MUST be wiped and flushed clean of any and all chemicals, solvents or buffers and be warranted to be safe for handling. You will be requested to acknowledge the condition of the product being returned on our packing list. Any product received that is deemed to be unsafe for handling or without this acknowledgement will be refused by our receiver.
- e. RMA for returning product for credit is effective for 90 days from the date of issue. After 90 days if the product has not been returned to Pulsafeeder the RMA number will be cancelled, and a new request must be made by the customer to continue with the return procedure.

4. Non-Warranty Return Procedure

- a. If you are experiencing a concern with your Pulsafeeder product, first consult the distributor, dealer or Regional Sales Manager or the operation and maintenance manual for assistance. If service of your non-warranty unit is necessary, you must request a return material authorization. A RMA form will be issued and must be used as the packing list attached to the outside of the box. Please send the unit freight prepaid with the RMA number visibly displayed on the outside of the carton. All products MUST be wiped and flushed clean of any and all chemicals, solvents or buffers and be warranted to be safe for handling. You will be requested to acknowledge the condition of the product being returned on our packing list. Any product received that is deemed to be unsafe for handling or without this acknowledgement will be refused by our receiver.
- b. The charges listed in the following table will apply.

Product	Repair Cost	
Pumps and Pump Accessories – within 5 years of sale date	Current List Price x .50 x Part Discount Multiplier	
Controllers and Controller Accessories within 5 years of sale date	Current List Price x .50 x Part Discount Multiplier	
Any item older than 5 years from date of sale	With purchase order, \$50 bench fee to evaluate. The \$50 bench fee may be applied towards repair cost of unit or towards a new controller	

- c. Extended warranty on repair goods will be offered only when the repairs were made by the factory on non-warranty units.
 - i. Microprocessor Controls 1 year from date of shipment
 - ii. Electronic Controls 6 months from date of shipment (excluding electronic parts)
 - iii. Standard metering pumps 3 months from date of shipment

Policies and Procedures continued

5. Credit for Return of New, Unused Equipment

- a. No equipment will be accepted beyond six months after date of shipment from factory for credit.
- b. Only new, unused and undamaged standard equipment will be accepted for return to stock.
- c. All credits are based on evaluation and acceptance of material as new and unused by Pulsafeeder. You will be requested to acknowledge the condition of the product being returned on our packing list. Any product received that is deemed to be unsafe for handling or without this acknowledgement will be refused by our receiver.
- d. A restocking fee of 25% will apply to returned goods. When a PO is provided for a replacement item at the time of the return request the restocking fee will be 15%. Note: any product mounted on a panel or skid will be charged a 50% re-stocking fee.
- e. A request for a Returned Material Authorization (RMA) number must be made prior to returning product to Pulsafeeder.
- f. All equipment shall be returned with the RMA Packing List form attached to the outside of the box.
- g. If any chemical, solvent or buffer has been introduced into the product it must be wiped and flushed clean of any and all substances prior to returning to Pulsafeeder.
- h. All material shall be returned freight prepaid.
- i. Private label products or Engineered Panel Mount Systems are not returnable.

6. Pricing Errors

- a. Pulsafeeder does their very best to avoid errors in billing. You will receive a confirmation of your order within 24 hours of order entry. If upon review the customer feels there is a discrepancy, they should contact Pulsafeeder Customer Service as soon as possible to resolve.
- Should an invoice be received that the customer believes to have incorrect pricing, they should notify Pulsafeeder Customer Service to investigate.

7. Missing Items

- a. If a product is received by the customer with an item missing the customer must notify Pulsafeeder Customer Service within 7 days of receipt of the product by the end user. A replacement item will be sent at no charge as quickly as possible.
- b. If a shipment is received by the customer with a line item missing they must notify Pulsafeeder Customer Service within 7 days of receipt of the product by the end user. If the customer had been billed for that item, a credit will be issued against the original Sales Order and a new Sales Order will be created for the replacement product.

Damaged Items

- a. Should the customer receive an order that was damaged in transit, the customer must notify the carrier directly to initiate a claim on the day of delivery.
- b. Should the customer receive a product with damaged components due to improper packaging they should notify Pulsafeeder Customer Service within 7 days of receipt of product by end user. A replacement item will be sent at no charge as quickly as possible.

9. Technical Support Services Available

- a. Pulsafeeder's Technical Sales Support team is available to provide all your sales and support needs. The principle mission of this group is to sell and support our customer base in a timely and effective manner. This includes the ability to provide in-field service training, assistance in start-up of our products and perform field repair of goods when required.
- b. Scope
 - Pulsafeeder, Inc. factory Field Service Technicians are available throughout the World for field services on all Pulsafeeder products. Services include:
 - Maintenance Training Seminars, including Classroom slide presentations and or Hands-on Training. The seminar will take approximately four to five hours, and if time permits minor repair and or adjustments may be made to the customer's pumps, controllers or accessories.
 - ii. Pre-start up inspections and start up testing/calibration of pumps, controllers and accessories.

Fee Schedule	Service Rate (1)
Field Repairs and Start-ups	
Normal 8 hour day	\$98.00/hour
Overtime (in excess of 8 hrs, each day)	\$148.00/hour
Sundays, National Holiday	\$195.00/hour
Travel time to job site and return	\$87.00/hour
Travel expenses (air fare, hotel, car and meals)	Chargeable to customer at cost
Minimum charge	4 hours labor, plus travel time and expenses
End User Training Seminars	
Normal work day	\$750.00/day plus expenses (air fare, car rental, hotel and meals at cost)
Sundays, National Holiday	\$1495.00/day plus expenses (air fare, car rental, hotel and meals at cost)

- iii. Field repairs of pumps controllers and accessories
- iv. Diagnosing and recommending solutions to systems problems.

⁽¹⁾ All rates listed in this section are actual hourly and daily rates, not reference rates

TERMS & CONDITIONS

- 1 . AGREEMENT. The contract of sale resulting from Seller's documentation together with these terms and conditions ("Contract") constitutes the entire agreement between the parties hereto, except as modified in writing signed by both the Seller and Purchaser. The Seller is Pulsafeeder, Inc. and the Purchaser is identified in the Contract. Any terms in a purchase order, irrespective of their materiality, which are either different from or additional to Seller's conditions of sale, are objected to and are excluded unless the Seller expressly agrees in writing to such terms. Execution of such forms by Seller to accommodate Purchaser's procurement or accounting procedures or to evidence agreed up on change orders shall not be construed as assent to Purchaser's terms. Acceptance of the goods shipped shall constitute assent to Seller's conditions of sale. This Contract shall be binding up on Purchaser and Seller, and on their successors and assigns.
- 2 . PROPOSAL OR QUOTATION. A proposal shall not become binding up on Seller until it has been executed and returned by Purchaser. An oral quotation shall not be considered an offer: only a written confirmation thereof incorporating Seller's terms and conditions shall constitute an offer.
- 3 . CREDIT. Credit terms of payment must have the approval of Seller's Credit Department and must be specified in writing on Seller's invoice or in the Contract. If Purchaser's credit is found by Seller to be unsatisfactory . Seller may rescind or terminate this Contract. If at any time during the term of this Contract Purchaser's financial responsibility becomes impaired or unsatisfactory to Seller, Seller reserves the right to stop shipment on notification to Purchaser, project owner and surety with a demand for payment in advance or at time of delivery for future deliveries or to require other security satisfactory to Seller and in the absence thereof, to cancel the unfilled portion of the Contract. Seller will notify Purchaser promptly of its decision to stop shipments and give an advance notice to the extent this is possible. In the absence of credit terms, sales are for cash.
- 4 . PAYMENT. Specific terms of payment for this order shall be set forth on the reverse side of this Contract or identified and appended hereto. Purchaser agrees to make payment at Seller's location specified in this Contract in lawful money of the United States. Purchaser further agrees to make all payments when due to Seller in accordance with the agreed terms of payment in this Contract without reference to Purchaser's agreement with or payments by the owner and with no right of retention.
- 5 . INTEREST AND COSTS. Purchaser agrees to pay interest at 1.5% per month (to the extent permitted by law) on all delinquent balances if and when assessed by Seller, and any attorney's fees or court costs arising out of and made necessary in collection of its obligation to Seller created by this Contract.
- 6 . TAXES. Any federal, state or local tax assessment, fee, duty or charge hereafter imposed on or measured by the products purchased hereunder shall be for Purchaser's account unless Purchaser furnishes Seller an acceptable exemption certificate from such tax, fee, duty or charge prior to shipment.
- 7 . FORCE MAJEURE. Seller shall make delivery in accordance with the terms of this Contract or within a reasonable time in the absence of any commitment, but Seller shall not be liable for delays or defaults in delivery caused by floods, fires, storms, or other acts of God, by war or act of public enemy (or civil disturbance), strikes, lock outs, shortages of labor or raw materials and supplies (including fuel) or production facilities, transportation service or equipment shortages or failures, action of any governmental authority or other conditions beyond Seller's reasonable control.
- 8 . CANCELLATION. If Purchaser desires to cancel or change any portion of this Contract, he must make such request in writing to Seller. Seller may, in its sole discretion, accept or reject any such request. If accepted, the Purchaser nonetheless must take delivery and make payment to Seller for all material manufactured and in process of manufacture at time of notice, and all special materials ordered at time of notice and for which Seller must take delivery, unless otherwise agreed by Seller in writing. All such materials must be removed from Seller's premises within 30 days after payment and payment will due at time of notice. Seller also reserves the right to make a cancellation charge in the event of cancellation by the Purchaser of an order p laced in Seller's shipping schedule and acknowledged by Seller.
- 9 . INSPECTION AND TESTING . Seller's standard specifications and tests apply to all orders. All charges for inspections or tests not regularly furnished are for Purchaser's account and subject to prior negotiation. All inspections shall be conducted at Seller's plant, and failure of Purchaser to avail himself of inspection privileges shall be deemed a waiver of such privileges.
- 10. PRICES. Prices are subject to change without notice. Orders based on published prices and accepted for scheduled shipment will be invoiced at Seller's applicable price in effect on the scheduled date of shipment, unless otherwise specifically noted on the order acknowledgment. All prices will be in accordance with applicable government regulations. Orders specifying palletizing or special packaging will involve special charges.
- 11. DELAYS. All orders are accepted subject to Seller's ability to make delivery at the time and in the quantities specified, and Seller shall not be liable for damages for failure to make partial or complete shipment or for any delay in making shipments. Purchaser shall be liable for any added expenses incurred by Seller because of Purchaser's delay in furnishing requested information to Seller, delay resulting from order changes by Purchaser, or delay in unloading shipments at delivery point.
- 1 2 . SHIPMENT. Seller will select method of shipment and routing when transportation charges are for account of Seller. When shipping instructions are specified by the Purchaser, all costs will be for the account of the Purchaser. The foregoing includes, but is not limited to, carriers charges for notification prior to delivery, demurrage, delay in unloading, diversion, or reconsignment.
- 13. TITLE. Title to products transfers up on delivery to Purchaser at the F.O.B. point of delivery which will be clearly set forth in the shipment terms of this Contract. On receipt of title, Purchaser is then responsible for proper protection of product, placement, compliance with all regulations and ordinances, and will indemnify Seller against all claims for personal injuries or property damage arising from the storage, use or handling of such products.
- 1 4 . IN TRANSIT CLAIMS. Claims for damage or shortage in transit must be made against the carrier by the owner of the shipment according to the F.O.B. terms of the Contract. Purchaser has the responsibility to inspect shipments before or during unloading to identify any such damage or shortage and see that appropriate notation is made on the delivery tickets or an inspection report furnished by the local agent of the carrier in order to support a claim.
- 15. CLAIMS. Notice of Claims against Seller hereunder for any reason, must be made to Seller in writing promptly after discovery and within any applicable warranty period. Failure to give such notice to Seller shall constitute a waiver by Purchaser of any right later to assert such a claim.
- 1 6. RETURNS. Returned goods shall be accepted for credit only if in salable condition and only with evidence of Seller's prior written consent. Seller will assess charges for freight both ways and any costs necessary to restore such goods to the regular plant inventory. The amount of credit given will depend further up on the degree of salability of products accepted in opinion of Seller.
- 17. PATENTS. Seller agrees to defend, and to protect Purchaser against loss or damage arising out of any legal action for patent infringement in connection with the manufacture of its products sold to Purchaser, provided Seller is notified promptly of any such action with complete information and is given an opportunity to defend.
- 18. WARRANTY: LIMITATION OF LIAB ILITY. Seller warrants title to each individual product sold under this Contract and further warrants for a period of twenty-four (24) months from ship date, but only to the extent and limit of the purchase price paid for such individual product, that such product conforms to the specifications set forth in the Contract and is free from defects in material and workmanship under normal service and use for which it was designed. Seller's sole obligation and Purchaser's exclusive remedy under this warranty shall be limited to one of the following, as selected by Seller: delivering to Purchaser a replacement for any product or part thereof determined by Seller to be defective, repairing such product or part, or refunding the purchase price (or an equitable portion thereof) paid for such product or part by Purchaser. SELLER MAKES NO WARRANTY OF FITNESS OR MERCHANTABILITY, AND NO OTHER WARRANTY, WHETHER EXPRESS OR ARISING BY OPERATION OF LAW, COURSE OF DEALING, USAGE OF TRADE OR OTHERWISE IMPLIED SHALL EXIST IN CONNECTION WITH SELLER'S PRODUCTS OR ANY SALE OR USE THERE OF. Purchaser must notify Seller promptly and within the warranty period of any claim under this warranty. Seller's warranty extends only to the first purchaser of a product from Seller or Seller's authorized distributor. All goods not manufactured by Seller are warranted only to the extent of the warranties of the original manufacturer. Seller disclaims any liability arising from tort, including strict liability, and Seller further disclaims any liability (whether arising under this or any other provision of this Contract or otherwise) for any costs (including costs of removal or replacement), liabilities, lost profits, loss of good will or any other general, special, incidental or consequential damages incurred by Purchaser in connection with this Contract or any product purchased there under.
- 19. LAW. This order shall be governed by and shall be construed by the law of the State of New York.
- 2 0 . GOVERNMENTAL REGULATIONS. Seller warrants that no code, law, regulation or ordinance of the United States, a state or any other governmental authority or agency or any applicable Executive Order has been violated in the manufacture or sale of the items covered by this Agreement and warrants that the equipment, supplies, and/or articles covered thereby conform with all such requirements.
- 2 1 . NUCLEAR FINANCIAL PROTECTION. Purchaser agrees to procure and maintain, as available to it, nuclear energy liability insurance, in a form of policy approved by the Nuclear Regulatory Commission, and protection, as available, against liability for nuclear incidents not covered by such insurance through an indemnity agreement, as provided in Section 170 of the Atomic Energy Act of 1954, as amended, or any succeeding comparable statutory provision, and the regulations thereunder. Such financial protection shall be effective prior to the time any equipment purchased from us is used or installed at or in connection with any nuclear facility and shall cover us an insured party. To the extent that such financial protection is not suitable to Purchaser. Purchaser agrees to use its best efforts to cause such financial protection to be obtained by eligible parties. We will cooperate with Purchaser and representatives of the nuclear energy insurance syndicates in complying with all underwriting requirements and with those insurance recommendations which may be mutually agreed up on. Notwithstanding any representations or warranties made by us elsewhere in these conditions of sale, we shall not be responsible for any bodily injury or property damage liability or any other public liability for any nuclear incidents, whether or not in respect of or arising in connection with use or installation of our equipment at any



pulsafeeder.com



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