

pulsafeeder.com





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Fax: (866) 433-6684 Fax: (281) 359-0084 Metering Pumps and Control Systems

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IMPORTANT INFORMATION WHEN PLACING AN ORDER

1) Order online, fax, mail, or telephone orders directly to the Customer Service Department:



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



Special Tags or Marks (if needed) Item(s) Being Ordered Quantity of Each Item

- 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.
- 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, AMERICAN EXPRESS and DISCOVER CARD.
- All prices are F.O.B. Punta Gorda, FL or Kingwood, Texas 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.

PUISATION[®] 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 with internationally recognized symbols.
Digital Display	Pump parameters are displayed on an LCD or LED type display.
Signal Relay	Provides a 24V DC signal output from the pump based on user specified conditions.
Pow er Relay	Provides AC pow er output from the pump based on user specified conditions.
Alarm Display	Flashing display or LED indicator that will display an alarm condition on the front panel of the pump.
Timed Sequences	Ability to pre-program operation for repetitive metering.
Programmable Timer	Timer that can be programmed with up to 8 on/off cycles per day during a 7-day week.
Hall Effect	Hall Effect Water Meter input.
Conductivity Control	Includes a conductivity controller built into the pump.
Bleed Relay	Separate relay used to control a solenoid that will "Bleed" a cooling tow er as part of a control system.
Timer Control	User defined timer functions that control when the pump will operate. Used in Cooling Tow er control systems.
Flow Control	Optional Flow Switch turns pump on when flow is active.

	Flow Ca	pacity	Pres	Turn Down	20 mA	20-4 mA	External Pace And Stop	External Pace Or Stop Function	ouch Pad	Digital Display	Signal/Power Relay	Alarm Signals	Timed Sequences	Programmable Timer	
Series	GPH	LPH	PSIG	BAR	Ratio	4-:	20	μÂ	с Сt	Т	Di	S R R	AI	۳ Se	μ
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										
A Plus	0.25 to 2	0.90 to 7.6	50 to 250	3.3 to 17	100:1				0						
T7	0.50 to 2	1.9 to 7.6	100	7	10:1										S
C Plus	0.25 to 1.25	0.90 to 4.7	80	5.6	100:1				0						
С	0.25 to 1.25	0.90 to 4.7	80	5.6	10:1				0						
ET	0.21 to 2	0.80 to	20 to 250	1.3 to 17	100:1			S						S	

S = Standard Features

O = Optional Features

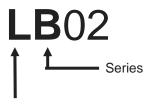
PUISATION[®] Model Selection Guide

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

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

Model Selection:

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



LB02 Flow/Pressure Code

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

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

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	Е
Series E-DC	S
Series D	F
Series A Plus	В
Series C Plus	D
Series C & T7	С
Series ET	Т



Digits 5 & 6 represent the Controls and Electrical selections.

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

PUISATION[®] 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.

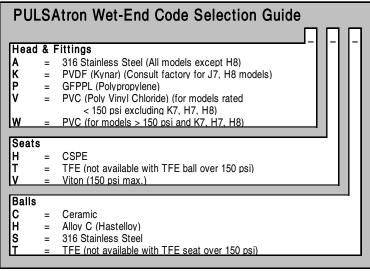
The four digits in the wet-end code represent the Head Material, Seats & O-Rings, Ball Material and Connection type. Using the above example, the code breads down as follows:

- 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.



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 Chart							
	Liquid End						
Chemical	Code						
ACETIC ACID, 5 - 10%	PHC						
ALUMINUM SULFATE	VHC						
AMMONIA, 10%	PHC						
BROMINE	KTC						
CALCIUM HY POCHLORITE	VVC						
CITRIC A CID, 10 - 20%	PHC						
DEAE - Steamline Treatment	ATS						
ETHY LENE GLY COL	PTC						
FERRIC CHLORIDE	VTC						
FERRIC SULFATE	PTC						
FLUOSILICIC A CID	PTT						
HYDROCHLORIC ACID, 0 - 37%	PTC						
HYDROCHLORIC ACID, 37 - 100%	KTT						
HYDROFLUOSILICIC ACID, 20%	PTT						
HYDROGEN PEROXIDE, 0 - 30%	VVC						
LACTIC ACID	PTC						
NITRIC A CID, 0 - 20%	PVC						
PHOSPHORIC A CID, 0 - 100%	KTC						
POTASSIUM CHLORIDE	PTC						
POTASSIUM PERMANGANATE	PTC						
SODIUM BI-CARBONATE	PTC						
SODIUM BI-SULFATE	PTC						
SODIUM BI-SULFITE	PTC						
SODIUM CARBONATE	PTC						
SODIUM HY DROXIDE, 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.

Degassing Head:

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

					Connec	tion Codes		
Code	Connect Type	Suction	Discharge	Spring	GPH Flow Limitations-125 SPM		Viscosity	Other Factors
2	Piping	.25" FNPT	.25" FNPT		0 - 1.88	0-3.76	1000 up to 3000 cps w/ SS balls	No Bleed Valve
4	Piping	.25" FNPT	.25" FNPT		1.63 - 10	3.26-20	1000 up to 3000 cps w/ SS balls	No Bleed Valve
6	Piping	.25" FNPT	.25" FNPT	Yes	Up to 10	NA	less than 10,000 cps	No Bleed Valve
8	Piping	.50" FNPT	.50" FNPT	Yes	Up to 25	NA	less than 10,000 cps	No Bleed Valve
C	Piping	.50" FNPT	.50" FNPT		25	50	1000 up to 3000 cps w/ SS balls	No Bleed Valve
G	Piping	.25" FNPT	.25" FNPT	Yes	0 - 1.88	0-3.76	1000 up to 3000 cps w/ SS balls	No Bleed Valve
	Piping	.50" MNPT	.50" MNPT	Yes	Up to 10	NA	less than 10,000 cps	No Bleed Valve
L	Piping	.50" MNPT	.50" MNPT		0 - 1.88	0-3.76	1000 up to 3000 cps w/ SS balls	No Bleed Valve
X	Piping	.50" MNPT	.50" MNPT		1.63 - 10	3.26-20	1000 up to 3000 cps w/ SS balls	No Bleed Valve
1	Tubing	.25" x .38"	.25" x .38"		0 - 1.88	0-3.76	1000 up to 3000 cps w/ SS balls	
3	Tubing	.38" x .50"	.38" x .50"		1.63 - 10	3.26-20	1000 up to 3000 cps w/ SS balls	
5	Tubing	.50" x .75"	.38" x .50"	Yes	Up to 10	NA	less than 10,000 cps	
7	Tubing	.50" x .75"	.50" FNPT	Yes	Up to 25	NA	less than 10,000 cps	No Bleed Valve
9	Tubing	.25" x .38"	.25" x .38"	Yes	0 - 1.88	0-3.76	1000 up to 3000 cps w/ SS balls	Degas Head/No Bleed Valve
A	Tubing	.38" x .50"	.38" x .50"		0 - 1.88	0-3.76	1000 up to 3000 cps w/ SS balls	
В	Tubing	.50" x .75"	.50" x .75"		25	50	1000 up to 3000 cps w/ SS balls	No Bleed Valve
D	Tubing	.25" x .38"	.25" x .38"	Yes	0 - 1.88	0-3.76	1000 up to 3000 cps w/ SS balls	
E	Tubing	.38" x .50"	.38" x .50"	Yes	0 - 1.88	0-3.76	1000 up to 3000 cps w/ SS balls	
F	Tubing	.38" x .50"	.38" x .50"	Yes	1.63 - 10	3.26-20	1000 up to 3000 cps w/ SS balls	Not Available In PVDF
Н	Tubing	.25" x .38"	.25" x .38"		1.63 - 10	3.26-20	1000 up to 3000 cps w/ SS balls	
J	Tubing	.25" x .38"	.25" x .38"		0 - 1.04	0-2.08	1000 up to 3000 cps w/ SS balls	
K	Tubing	.50" x .75"	.50" x .75"	Yes	1.88 - 25 (<50 psi)	NA	less than 10,000 cps	No Bleed Valve
	Metric Co	nnections			LPH Flow Limitations	LPH Flow Limitations		
M	Piping	G 1/2 A	G 1/2 A		6.15 - 37.85	12.3-75.7	1000 up to 3000 cps w/ SS balls	
R	Piping	G 1/2 A	G 1/2 A		0 - 7.10	0-14.2	1000 up to 3000 cps w/ SS balls	
N	Tubing	4 x 10 mm	4 x 10 mm		0 - 7.10	0-14.2	1000 up to 3000 cps w/ SS balls	
Р	Tubina	4 x 6 mm	4 x 6 mm		0 - 3.94	0-7.88	1000 up to 3000 cps w/ SS balls	
Q	Tubing	10 x 14 mm	10 x 14 mm		6.15 - 37.85	12.3-75.7	1000 up to 3000 cps w/ SS balls	
S	Tubing	6 x 10 mm	6 x 10 mm		> 18.93	> 37.86	1000 up to 3000 cps w/ SS balls	
T	Tubing	6 x 10 mm	6 x 10 mm		0 - 7.10	0-14.2	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	0-14.2	1000 up to 3000 cps w/ SS balls	
V	Tubing	12 x 19 mm	12 x 19 mm		> 29.96	>59.92	1000 up to 3000 cps w/ SS balls	No Bleed Valve
W	Tubing	10 x 16 mm	10 x 16 mm		6.15 - 37.85	12.3-75.7	1000 up to 3000 cps w/ SS balls	
ΓY	Tubing	6 x 12 mm	6 x 12 mm		0 - 7.10	0-14.2	1000 up to 3000 cps w/ SS balls	

- Pumps ranging from 0.25 gph (0.9 lph) to 0.90 gph (3.4 lph) with the stainless steel ball option ("S" in the 9th digit of the model number) must select a connection code with a spring.

- Pumps less than or equal to .25 gph (0.9 lph) require a connection code with a spring and must use a ceramic ball in place of stainless steel.

- Stainless steel head assemblies are only available in piping connections.



Selection Guide cont'd.

Suffix Code:

LB02SA-PTC1-XXX - Suffix Code

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

Standard Suffix Code Descriptions:

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

CZ____XXX = CE Approval

This suffix code tells us that you require CE Approval on the pump you are ordering. This suffix code is seven to nine digits and can be used in conjunction with other suffix codes by replacing the XXX after the CZ _ _ _ with another suffix code. For instance, if you require CE Approval and a Five Function Valve, the suffix code would be CZEURO500.

130 = PVDF Tubing

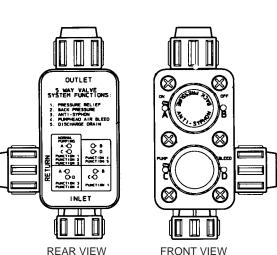
This suffix code will replace the standard pump tubing with PVDF Tubing.

500 = Five Function Valve

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

FEATURES

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



SPECIFICATIONS

Material Of Construction:

Waterial Of Construct	ion:
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	175 PSI (12 BAR) - green
pressure)	125 PSI (8.6 BAR) - blue
	50 PSI (2.8 BAR) - black (PVC only)

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

OPERATION

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

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

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

With the DG/5FV you don't have to give up the accuracy and control of a solenoid metering pump in order to pump gaseous solutions. Available in a variety of materials and popular sizes, the DG/5FV is ready to tackle most applications. Not only does the DG/5FV provide degassing, it is packed with features that increase safety, enhance performance and generally improves the convenience of operation.

FEATURES

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

OPERATION

tions.

SPECIFICATIONS

Connections:

Material Of Construction:

	1.
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 a	adjustable, typically 1-10% of pump output.

1/4" (0.635 cm) Male NPT 1/2" (1.27 cm) OD tubing

3/8" (0.95 cm) OD tubing

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

ITS = Integrated Tank System

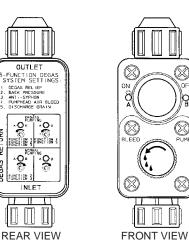
The ITS System is a completely integrated tank system constructed of high density UV resistant polyethylene (PE) with a 15 gallon capacity. This tank system is translucent with 5 gallon increments and the tank's low level indicator allows visual monitoring of chemicals without opening the tank. The tight 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.





OUTLET

UNCT ON

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 posi-

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.

NCTION DEC



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.



115 VAC/50-60 HZ/1 ph

Pressure and Flow Rate Capacity

						-		-								9700	3150	970815	0	
MODE	L	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 5/8" ID X 1/2" OD 5/00 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:	125
External Stroke Frequency Control (Automat	ic).

Engineering Data

Power Input:

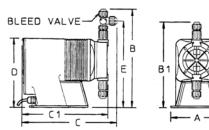
	230 VAC/50-60 HZ/1 ph
Average Current Draw:	
@ 115 VAC; Amps:	1.0 Amps
@ 230 VAC; Amps:	0.5 Amps
Peak Input Power:	300 Watts
Average Input Power @ Max SPM:	130 Watts

External Stroke Frequency Control (Automatic):

Output Relay (Signal Level Option):
Output Relay (Power Option):
Stroke Frequency Turn-Down Ratio:
Stroke Length Turn-Down Ratio:

4-20 mADC, 20-4 mADC External Pacing 24 VDC, 10 mA 250 VAC, 50/60 HZ, 0.5A 100:1 10:1

	Series MP Selection Guide												
MODELS:	K2 = 0.13 gph / 3 gpd (0.5 lph) max pres.: 300 PSI (21 BAR)												
	B2 = 0.21 gph / 5 gpd (0.8 lph) max pres.: 250 PSI (17 BAR)												
	D3 = 0.50 gph / 12 gpd (1.9 lph) max pres.: 250 PSI (17 BAR)												
	F4 = 0.85 qph / 20 qpd (3.2 lph) max pres.: 250 PSI (17 BAR)												
	H4 = 1.70 gph / 41 gpd (6.4 lph) max pres.: 250 PSI (17 BAR)												
	A2 = 0.25 gph / 6 gpd (0.9 lph) max pres.: 150 PSI (10 BAR)												
	B3 = 0.50 gph / 12 gpd (1.9 lph) max pres.: 150 PSI (10 BAR)												
	04 = 0.90 gph / 22 gpd (3.4 lph) max pres.: 150 PSI (10 BAR)												
	G4 = 1.75 gph / 42 gpd (6.6 lph) max pres.: 150 PSI (10 BAR)												
	K5 = 2.50 gph / 60 gpd (9.5 lph) max pres.: 150 PSI (10 BAR) H5 = 3.15 gph / 76 gpd (11.9 lph) max pres.: 150 PSI (10 BAR)												
	A3 = 0.50 gph / 12 gpd (1.9 lph) max pres.: 100 PSI (7 BAR)												
	K3 = 0.60 gph / 14 gpd (2.3 lph) max pres.: 100 PSI (7 BAR)												
	B4 = 1.00 gph / 24 gpd (3.8 lph) max pres.: 100 PSI (7 BAR)												
	E4 = 1.85 gph / 44 gpd (7.0 lph) max pres.: 100 PSI (7 BAR)												
	H6 = 5.00 gph / 120 gpd (18.9 lph) max pres.: 100 PSI (7 BAR)												
	K7 = 8.00 gph / 192 gpd (30.3 lph) max pres.: 50 PSI (3.3 BAR)												
	H7 = 10.0 gph / 240 gpd (37.9 lph) max pres.: 35 PSI (2.4 BAR)												
	H8 = 21.0 gph / 504 gpd (79.5 lph) max pres.: 20 PSI (1.3 BAR)												
CONTROLS:	T = Signal Level Output Relay												
	K = Power Level Output Relay												
ELECTRICAL:	A = 115 Volt / 50-60Hz												
	1 = 115 Volt / 50-60Hz (without agency approvals)												
	B = 230 Volt / 50-60Hz / 1 ph with 6' (1.8m) 3-wire US Plug												
	2 = 230 Volt / 50-60Hz (without agency approvals)												
	PTC = GFPPL / TFE / Ceramic												
MATERIALS:	KTC = PVDF / TFE / Ceramic (Consult factory for H8)												
Pump Head &	VHC = PVC / CSPE / Ceramic (not available on H7, H8, K7)												
Fittings/Seats	VTC = PVC / TFE / Ceramic (models <= 150 psi excluding H7, H8, K7)												
& O-rings/Balls	WTC = PVC / TFE / Ceramic (models > 150 psi and H7, H8, K7)												
	VVC = PVC / Viton / Ceramic (not available on H8)												
	ATS = 316 S.S. / TFE / 316 S.S. (must use FNPT piping connection) (not available on H8)												
<u>See page 6 for</u>	additional liquid end materials.												
CONNECTION	1 = Tubing .25" I.D. x .38" O.D. / .25" Ball, 0 - 1.88 GPH												
SIZES:	3 = Tubing .38" I.D. x .50" O.D. / .38" Ball, 1.63 - 10 GPH												
01220.	9 = Degas Head: .25" I.D. x .38" O.D. / 0-1.83 GPH												
	J = Tubing, .25" I.D. x .38" O.D. / .19 Ball; 0 - 1.04 GPH												
	METRIC:												
	M = G 1/2 A Threads, .38" Ball, 6.15 - 37.85 LPH												
	R = G 1/2 A Threads, .25" Ball, 0 - 7.10 LPH												
	$Y = 6 \times 12 \text{ mm}, .25^{\circ} \text{ Ball, } 0 - 7.10 \text{ LPH}$												
Please Refer t	o page 7 for additional connection sizes. All pumps with tubing connections come with the following												
	for LMH8, LPH8, LEH8, HV series pumps): 4' Suction, 4' Return, 8' dischage tubing,												
	ner assy., injection valve and bleed valve.												
SUFFIX	XXX = No Additional Options												
CODES:	130 = PVDF Tubing												
	500 = Five Function Valve												
	520 = Five Function Degas Valve												
	FVE = Flow Verification / EPDM (not available on pumps greater than 100 psi)												
	FVV = Flow Verification / Viton (not available on pumps greater than 100 psi)												
	ITS - 15 gal ITS Tank System (ITS Tank not available on LM LP LT and LF: H4 H5 H6 H7 H8 J7 K7 models)												
	CZ XXX = CE Approval (CZUKXXX=UK; CZEUROXXX=Europe; CZEFRAXXX=France/Belgium;												
	CZECRXXX=Czech Republic; CZSUIXXX=Sw itzerland/Liechtenstein)												
	See pages 8 & 9 for additional information and specs.												



						Ser	ies N	1P Dim	ension	s (ind	ches)						
Model No.	A	В	B1	С	C1	D	E	Shpg Wt	Model No.	Α	В	B1	С	C1	D	E	Shpg Wt
LMA2	5.4	10.3	-	10.8	-	1.5	8.9	13	LMH4	6.2	10.9	-	11.2	-	8.2	9.5	21
LMA3	5.4	10.6	-	10.7	-	1.5	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	-	1.5	9.2	13	LMH/	6.1	11.7	-	11.2	-	8.2	10.3	21
LMB4	5.4	10.6	-	10.7	-	1.5	9.2	13	LMH8*	6.1	-	10.9	-	10.6	8.2	-	25
LMD3	5.4	10.6	-	11.2	-	7.5	9.2	15	LMK2	5.4	10.3	-	10.8	-	7.5	8.9	13
LMD4	5.4	10.6	-	11.2	-	7.5	9.2	15	LMK3	5.4	10.6	-	10.7	-	7.5	9.2	13
LME4	5.4	10.6	-	11.2	-	1.5	9.2	15	LMK5	5.4	10.9	-	11.7	-	1.5	9.5	18
LMF4	5.4	10.6	-	11.7	-	7.5	9.2	18	LMK7	6.1	11.7	-	11.2	-	8.2	10.3	21
LMG4		10.6	-	11./	-	1.5	9.2	18	s dosiar								

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

PULSAtron[®]

Electronic Metering Pumps

Series E PLUS

Key Features

- Automatic Control, available with 4-20 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

						-		-									2100170				
MODE									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	300 250 150 250 150 100 100 250 150 100 250 15									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" FNF /2" FNF	-			

Engineering Data

Reproducibility:

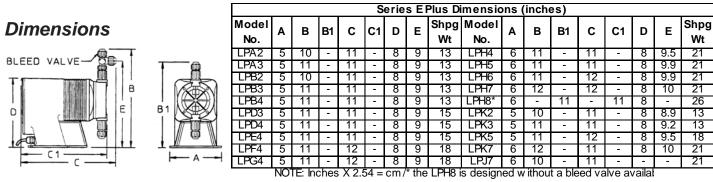
+/- 2% at maximum capacity

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.

buil checks. See Selection Guide for proper c	John Collon.
Stroke Frequency Max SPM:	125
Stroke Frequency Turn-Down Ratio:	10:1
Stroke Length Turn-Down Ratio:	10:1
Power Input:	115 VAC/50-60 HZ/1 ph
	230 VAC/50-60 HZ/1 ph
Average Current Draw:	
@ 115 VAC; Amps:	1.0 Amps
@ 230 VAC; Amps:	0.5 Amps
Peak Input Power:	300 Watts
Average Input Power @ Max SPM:	130 Watts

PULSAtron	Series E Plus Selection Guide
MODELS:	K2 = 0.13 gph / 3 gpd (0.5 lph) max pres:: 300 PSI (21 BAR) B2 = 0.21 gph / 5 gpd (0.8 lph) max pres:: 250 PSI (17 BAR) D3 = 0.50 gph / 12 gpd (1.9 lph) max pres:: 250 PSI (17 BAR) F4 = 0.85 gph / 20 gpd (3.2 lph) max pres:: 250 PSI (17 BAR) H4 = 1.70 gph / 41 gpd (6.4 lph) max pres:: 250 PSI (17 BAR) A2 = 0.25 gph / 6 gpd (0.9 lph) max pres:: 150 PSI (10 BAR) B3 = 0.50 gph / 12 gpd (1.9 lph) max pres:: 150 PSI (10 BAR) B4 = 1.75 aph / 42 apd (6.6 lph) max pres:: 150 PSI (10 BAR) G4 = 1.75 aph / 42 apd (6.6 lph) max pres:: 150 PSI (10 BAR) K5 = 2.50 aph / 60 apd (1.9 lph) max pres:: 150 PSI (10 BAR) K5 = 2.50 aph / 60 apd (1.9 lph) max pres:: 150 PSI (10 BAR) K3 = 0.60 gph / 12 gpd (1.9 lph) max pres:: 100 PSI (7 BAR) K3 = 0.60 gph / 12 gpd (3.8 lph) max pres:: 100 PSI (7 BAR) B4 = 1.00 gph / 24 gpd (3.8 lph) max pres:: 100 PSI (7 BAR) E4 = 1.85 gph / 44 gpd (7.0 lph) max pres:: 100 PSI (7 BAR) K7 = 8.00 gph / 120 gpd (18.9 lph) max pres:: 50 PSI (3.3 BAR) H6 = 5.00 gph / 240 gpd (3.7.9 lph) max pres:: 50 PSI (3.3 BAR) J7 = 10.0 gph / 240 gpd (3.7.9 lph) max pres:: 30 PSI (2.4 BAR) J7 = 10.0 gph / 240
CONTROLS:	S = Manual On/Off M = 4-20mADC Direct, w/ Stop E = External/Remote Pacing, w/ Stop
ELECTRICAL:	A = 115 Volt / 50-60Hz 1 = 115 Volt / 50-60Hz (without agency approvals) B = 230 Volt / 50-60Hz / 1ph with 6' (1.8m) 3-wire US Plug 2 = 230 Volt / 50-60Hz (without agency approvals)
MATERIALS: Pump Head & Fittings/Seats & O-rings/Balls	PTC = GFPPL / TFE / Ceramic PTT = GFPPL / TFE / TFE KTC = PVDF / TFE / Ceramic (Consult factory for H8) VHC = PVC / CSPE / Ceramic (not available on H7, H8, K7) VTC = PVC / TFE / Ceramic (models <= 150 psi excluding H7, H8, K7)
	r additional liquid end materials.
CONNECTION SIZES:	1 = Tubing .25" I.D. x .38" O.D. / .25" Ball, 0 - 1.88 GPH 3 = Tubing .38" I.D. x .50" O.D. / .38" Ball, 1.63 - 10 GPH 4 = Piping .25" FNPT / .38" Ball, 1.63 - 10 GPH B = Tubing .50" I.D. x .75" O.D. / .50" Ball, 25 GPH only METRIC: M M = G 1/2 A Threads, .38" Ball, 6.15 - 37.85 LPH R = G 1/2 A Threads, .25" Ball, 0 - 7.10 LPH Y = 6 x 12mm, .25" Ball, 0 - 7.10 LPH
Please Refer t	to page 7 for additional connection sizes. All pumps with tubing connections come with the following
items (except	for LMH8, LPH8, LEH8, HV series pumps): 4' Suction, 4' Return, 8' dischage tubing,
	iner assy., injection valve and bleed valve.
SUFFIX CODES:	XXX = No Additional Options 130 = PVDF Tubing 500 = Five Function Valve 520 = Five Function Degas Valve ITS = 15 gal. ITS Tank System (ITS Tank not available on LM, LP, LT, and LE: H4, H5, H6, H7, H8, J7, K7 models) CZ XXX = CE Approval (CZUKXXX=UK; CZEUROXXX=Europe; CZEFRAXXX=France/Belgium; CZECRXXX=Czech Republic; CZSUIXXX=Sw itzerland/Liechtenstein)
0	9 for additional information and specs.
<u>See pages 8 &</u>	A completed model number should look like 'LPB3SA-PTC1-XXX'



PULSAtron®

Electronic Metering Pumps

Series HV Key Features

- Automatic Control, available with 4-20 mADC direct or external pacing, with stop function.
- Manual Control by on-line adjustable stroke rate and stroke length.
- Agency approved for demanding OUTDOOR and indoor applications.
- Auto-Off-Manual switch.
- Highly Reliable timing circuit.
- Circuit Protection against voltage and current upsets.
- Panel Mounted Fuse.
- Solenoid Protection by thermal overload with auto reset.
- Water Resistant, for outdoor and indoor applications.
- Indicator Lights, panel mounted.
- Guided Ball Check Valve Systems, to reduce back flow and enhance outstanding priming characteristics.
- Viscosities to 20,000 CPS.



Contact factory for applicable agency approvals.

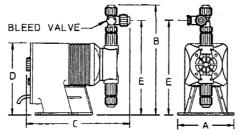
Pressure and Flow Rate Capacity

MODEL	_	LVB3	LVF4	LVG4	LVG5	LVH7							
Capacity	GPH	0.50	1.00	2.00	4.00	10.00							
nominal	GPD	12	24	48	96	240							
(max.)	LPH	1.9	3.8	7.6	15.1	37.9							
Pressure	PSIG	150	150	110	110	80							
(max.)	BAR	10	10	7	7	5.6							
Connections	Tubing		(S) .50" I.D. X .75" O.D38" I.D. X .50" OD (LVB3 & F4 or (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:	125
Stroke Frequency Turn-Down Ratio:	10:1
Stroke Length Turn-Down Ratio:	10:1
Power Input:	115 VAC/50-60 HZ/1 ph
	230 VAC/50-60 HZ/1 ph
Average Current Draw:	
@ 115 VAC; Amps:	1.0 Amps
@ 230 VAC; Amps:	0.5 Amps @ 230 VAC
Peak Input Power:	300 Watts
Average Input Power @ Max SPM:	130 Watts

PULSAtron	Serie	s HV Selection Guide
MODELS:	B3 F4 G4 G5 H7	= 0.50 gph / 12 gpd (1.9 lph) max pres.: 150 PSI (10 BAR) = 1.00 gph / 24 gpd (3.8 lph) max pres.: 150 PSI (10 BAR) = 2.00 gph / 48 gpd (7.6 lph) max pres.: 110 PSI (7 BAR) = 4.00 gph / 96 gpd (15.1 lph) max pres.: 110 PSI (7 BAR) = 10.0 gph / 240 gpd (37.9 lph) max pres.: 80 PSI (5.6 BAR)
CONTROLS:	S M E	= Manual On/Off = 4-20mADC Direct, w/ Stop = External/Remote Pacing, w/ Stop
ELECTRICAL:	A 1 B 2	 = 115 Volt / 50-60Hz = 115 Volt / 50-60Hz (without agency approvals) = 230 Volt / 50-60Hz / 1ph with 6' (1.8m) 3-wire US Plug = 230 Volt / 50-60Hz (without agency approvals)
	PTT PTS WTS VTT VTS	= GFPPL / TFE / TFE - LVB3 & F4 only = GFPPL / TFE / 316 SS - LVG4, G5 & H7 only = PVC / TFE / 316 SS - LVH7 only = PVC / TFE / TFE - LVB3 & F4 only = PVC / TFE / 316 SS - LVG5 & G4 No other liquid end materials available.
CONNECTION SIZES: No other conn	ĸ	= Tubing (S) .50" I.D. x .75" O.D. / .38" I.D. x .50" O.D LVB3 & F4 only = Tubing .50" I.D. x .75" O.D LVG4, G5 & H7 only zes available. Pumps come with 4' suction tubing and 8' discharge tubing. No bleed valve
available.		
SUFFIX CODES	XXX	= No Additional Options
See pages 8	& 9 for a	dditional information and specs. A completed model number should look like 'LVB3SA-VTT5-XXX'



	Series HV Dimensions (inches)													
Model	А	В	С	D	Shipping									
No.	No. Weight													
LVB3	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	LVG5 5.4 10.8 10.8 7.5 18													
LVH7	LVH7 6.1 11.5 11 8.2 25													
NOTE: Inches X 2.54 = cm														

PUISATION[®] 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

					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	100 100 250 150 100 2					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: Viscosity Max CPS:

Power Input:

Average Current Draw: @ 115VAC; Amps:

@ 230 VAC; Amps:

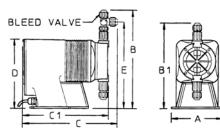
Peak Input Power:

or C with 316SS ball material. Flow rate will determine connection/ball size. Greater than 3000 CPS require spring loaded ball checks. See Selection Guide for proper connection Stroke Frequency Max SPM: 125 Stroke Frequency Turn-Down Ratio: 10:1 Stroke Length Turn-Down Ratio: 10:1 115 VAC/50-60 HZ/1 ph 230 VAC/50-60 HZ/1 ph 1.0 Amps 0.5 Amps 300 Watts Average Input Power @ Max SPM: 130 Watts

+/- 3% at maximum capacity

For viscosity up to 3000 CPS, select connection size 3, 4, B

PULSAtron	Series E Selection Guide
MODELS:	K2 = 0.13 gph / 3 gpd (0.5 lph) max pres.: 300 PSI (21 BAR) 12 = 0.21 gph 5 gpd (0.8 lph) max pres.: 250 PSI (17 BAR) 33 = 0.50 gph / 12 gpd (1.9 lph) max pres.: 250 PSI (17 BAR) F4 = 0.85 gph / 20 gpd (3.2 lph) max pres.: 250 PSI (17 BAR) H4 = 1.70 gph / 41 gpd (6.4 lph) max pres.: 250 PSI (17 BAR) 02 = 0.25 gph / 6 gpd (0.9 lph) max pres.: 150 PSI (10 BAR) 13 = 0.50 gph / 12 gpd (1.9 lph) max pres.: 150 PSI (10 BAR) 34 = 0.90 gph / 22 gpd (3.4 lph) max pres.: 150 PSI (10 BAR) G4 = 1.75 gph / 42 gpd (6.6 lph) max pres.: 150 PSI (10 BAR) K5 = 2.50 gph / 60 gpd (9.5 lph) max pres.: 150 PSI (10 BAR) K5 = 0.60 gph / 12 gpd (1.9 lph) max pres.: 150 PSI (10 BAR) K3 = 0.60 gph / 12 gpd (1.9 lph) max pres.: 100 PSI (7 BAR) K3 = 0.60 gph / 14 gpd (2.3 lph) max pres.: 100 PSI (7 BAR) K4 = 1.85 gph / 44 gpd (7.0 lph) max pres.: 100 PSI (7 BAR) K4 = 1.85 gph / 44 gpd (3.8 lph) max pres.: 100 PSI (7 BAR) K7 = 8.00 gph / 120 gpd (18.9 lph) max pres.: 50 PSI (3.3 BAR) H6 = 5.00 gph / 120 gpd (30.3 lph) max pres.: 50 PSI (3.3 BAR) H7 = 10.0 gph / 240 gpd (37.9 lph) max pres.: 35 PSI (2.4 BAR) J7 = 10.0 gph / 240 gpd
	H8 = 25.0 gph / 600 gpd (94.6 lph) max pres.: 30 PSI (2 BAR)
CONTROLS:	S = No Options Available
ELECTRICAL:	 A = 115 Volt / 50-60Hz 1 = 115 Volt / 50-60Hz (without agency approvals) B = 230 Volt / 50-60Hz / 1ph with 6' (1.8m) 3-wire US Plug 2 = 230 Volt / 50-60Hz (without agency approvals)
LIQUID END MATERIALS: Pump Head & Fittings/Seats & O-rings/Balls	PHC = GFPPL / CSPE / Ceramic PTC = GFPPL / TFE / Ceramic KTC = PVDF / TFE / Ceramic (Consult factory for J7 or H8) VHC = PVC / CSPE / Ceramic (not available on H7, H8, K7) VTC = PVC / TFE / Ceramic (models <= 150 psi excluding H7, H8, K7)
See page 6 for	r additional liquid end materials.
CONNECTION SIZES:	1 = Tubing .25" I.D. x .38" O.D. / .25" Ball, 0 - 1.88 GPH 3 = Tubing .38" I.D. x .50" O.D. / .38" Ball, 1.63 - 10 GPH METRIC: M M = G 1/2 A Threads, .38" Ball, 6.15 - 37.85 LPH P = 4 x 6mm, .25" Ball, 0 - 3.94 LPH
Please Refer t	o page 7 for additional connection sizes. All pumps with tubing connections come with the following
items (except	for LMH8, LPH8, LEH8, HV series pumps): 4' Suction, 4' Return, 8' dischage tubing, iner assy., injection valve and bleed valve.
SUFFIX CODES:	XXX = No Additional Options 130 = PVDF Tubing 500 = Five Function Valve 520 = Five Function Degas Valve ITS = 15 gal. ITS Tank System (ITS Tank not available on LM, LP, LT, and LE: H4, H5, H6, H7, H8, J7, K7 models) CZ XXX = CE Approval (CZUKXXX=UK; CZEUROXXX=Europe; CZEFRAXXX=France/Belgium; CZECRXXX=Czech Republic; CZSUIXXX=Sw itzerland/Liechtenstein)
See pages 8 &	9 for additional information and specs.



						Se	ries	E Dime	ensions	(incł	nes)						
Model	А	В	B1	с	C1	D	Е	Shpg	Model	А	В	B1	С	C1	D	E	Shpg
No.	A	Б	ы	C		U	L	Wt	No.	A	Б	ы	C	CI		L	Wt
LE02	5	9.6	1	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	-	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

NOTE: Inches X 2.54 = cm * the LEH8 is designed without a bleed valve available

PULSAtron[®]

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).





Contact factory for applicable agency approvals.

Pressure and Flow Rate Capacity

MODEI	-	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" F	INPT				

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

PULSAtro	on Sei	ries E-DC Selection Guide
MODELS:	02 13 14 44	= 0.25 gph / 6 gpd (0.9 lph) max pres.: 150 PSI (10 BAR) = 0.50 gph / 12 gpd (1.9 lph) max pres.: 150 PSI (10 BAR) = 1.00 gph / 24 gpd (3.8 lph) max pres.: 100 PSI (7 BAR) = 1.85 gph / 44 gpd (7.0 lph) max pres.: 100 PSI (7 BAR)
CONTROLS:	S	= No Options Available
ELECTRICAL:	4	= 12V DC
MATERIALS: Pump Head &	VTC	= GFPPL / CSPE / Ceramic = GFPPL / TFE / Ceramic = GFPPL / Viton / Ceramic = PVC / TFE / Ceramic
See page 6 fo	or addition	onal liquid end materials.
CONNECTION SIZES:	1 J METRIC M R	= Tubing .25" I.D. x .38" O.D. / .25" Ball, 0 - 1.88 GPH = Tubing .25" I.D. x .38" O.D./ 19" Ball, 0 - 1.04 GPH : = G 1/2 A Threads, .38" Ball, 6.15 - 37.85 LPH G 1/2 A Threads, .25" Ball, 0 - 7.10 LPH
Please Refer	to page	7 for additional connection sizes. All pumps with tubing connections come with the
following iter	ns (exc	ept for LMH8, LPH8, LEH8, HV series pumps): 4' Suction, 4' Return, 8' dischage tubing,
footvalve/stra	ainer as	sy., injection valve and bleed valve.
SUFFIX CODES:	XXX 130 500 520 ITS	= No Additional Options = PV DF Tubing = Five Function Valve = Five Function Degas Valve = 15 gal. ITS Tank System
See pages 8	& 9 for a	dditional information and specs.
		A completed model number should look like 'LS02S4-PTC1-XXX'

Series E-DC Dimensions (inches)										
Model	Α	В	С	D	Е	Shipping				
No.						Weight				
LS02	5.0	9.6	9.6	6.5	8.2	10				
LS13	5.0	9.9	9.5	6.5	8.5	10				
LS14	5.0	9.9	9.5	6.5	8.5	10				
LS44	5.0	10.6	11.4	7.5	9.2	15				
	NOTE:	Inches X	. 2.54 = (cm						

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

								970	0130 8/	19159	
MODEL		LBC2	LB02	LBC3	LB03	LB04	LB64	LBC4	LBS2	LBS3	LBS4
	GPH	0.25	0.25	0.42	0.50	1.00	1.25	2.00	0.50	1.38	2.42
	GPD	6	6	10	12	24	30	48	12	33	58
	LPH	0.9	0.9	1.6	1.9	3.8	4.7	7.6	1.9	5.2	9.14
GFPP, PVDF, 316SS											
or PVC (W code)											
w/TFE Seats)	PSIG	250 (17)	150 (10)	250 (17)	150 (10)	100 (7)	100 (7)	50 (2, 2)	250 (17)	150 (10)	100 (7)
PVC (V code) Viton or	(Bar)		150 (10)	200 (17)	150 (10)	100 (7)	100 (7)	50 (5.5)		150 (10)	100 (7)
CSPE Seats / Degas											
Liquid End		150 (10)							150 (10)		
	Tubing			1/4" ID X	3/8" OD			3/8" ID X 1/2" OD	1/4	1" ID X 3/8" (DD
	Piping					1.	/4" FNPT				
	SPM		125							250	
	GFPP, PVDF, 316SS or PVC (W code) w/TFE Seats) PVC (V code) Viton or CSPE Seats / Degas	GPH GPD LPH GFPP, PVDF, 316SS or PVC (W code) w/TFE Seats) PVC (V code) Viton or CSPE Seats / Degas Liquid End Tubing Piping	GPH0.25GPD6LPH0.9GFPP, PVDF, 316SS or PVC (W code) w/TFE Seats)PSIGPVC (V code) Viton or CSPE Seats / Degas Liquid End(Bar)Tubing150 (10)TubingPiping	GPH 0.25 0.25 GPD 6 6 LPH 0.9 0.9 GFPP, PVDF, 316SS or PVC (W code) w/TFE Seats) PSIG 250 (17) PVC (V code) Viton or CSPE Seats / Degas Liquid End PSIG 150 (10) Tubing Tubing	GPH 0.25 0.25 0.42 GPD 6 6 10 LPH 0.9 0.9 1.6 GFPP, PVDF, 316SS or PVC (W code) w/TFE Seats) PSIG 250 (17) 150 (10) 250 (17) PVC (V code) Viton or CSPE Seats / Degas Liquid End (Bar) 150 (10) 150 (10) 174" ID X Tubing Tubing	GPH 0.25 0.25 0.42 0.50 GPD 6 6 10 12 LPH 0.9 0.9 1.6 1.9 GFPP, PVDF, 316SS or PVC (W code) w/TFE Seats) PSIG 250 (17) 150 (10) 250 (17) 150 (10) PVC (V code) Viton or CSPE Seats / Degas Liquid End PSIG 250 (17) 150 (10) 250 (17) 150 (10) Tubing Tubing 1/4" ID X 3/8" OD 1/4" ID X 3/8" OD	GPH 0.25 0.25 0.42 0.50 1.00 GPD 6 6 10 12 24 LPH 0.9 0.9 1.6 1.9 3.8 GFPP, PVDF, 316SS or PVC (W code) w/TFE Seats) PSIG 250 (17) 150 (10) 250 (17) 150 (10) 100 (7) PVC (V code) Viton or CSPE Seats / Degas Liquid End Tubing 1/4" ID X 3/8" OD 1/4" ID X 3/8" OD 1/4" ID X 3/8" OD	GPH 0.25 0.25 0.42 0.50 1.00 1.25 GPD 6 6 10 12 24 30 LPH 0.9 0.9 1.6 1.9 3.8 4.7 GFPP, PVDF, 316SS or PVC (W code) w/TFE Seats) PSIG 250 (17) 150 (10) 250 (17) 150 (10) 100 (7) 100 (7) PVC (V code) Viton or CSPE Seats / Degas Liquid End Tubing 150 (10) 150 (10) 150 (10) 100 (7) 100 (7) Tubing Tubing 1/4" ID X 3/8" OD 1/4" FNPT	MODEL LBC2 LB02 LBC3 LB03 LB04 LB64 LBC4 GPD 6 0.25 0.42 0.50 1.00 1.25 2.00 GPD 6 6 10 12 24 30 48 LPH 0.9 0.9 1.6 1.9 3.8 4.7 7.6 GFPP, PVDF, 316SS or PVC (W code) w/TFE Seats) PSIG 250 (17) 150 (10) 250 (17) 100 (7) 100 (7) 50 (3.3) PVC (V code) Viton or CSPE Seats / Degas Liquid End 150 (10) 150 (10) 250 (17) 150 (10) 100 (7) 100 (7) 50 (3.3) Tubing 150 (10) 1/4" IDX 3/8" OD 3/8" ID X 1/2" OD 3/8" ID X 1/2" OD	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

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.

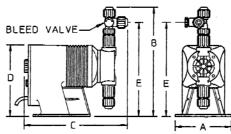
Engineering Data

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:	10:1
Power Input:	115 VAC/50-60 HZ/1 ph
	230 VAC/50-60 HZ/1 ph
Average Current Draw:	
@ 115 VAC; Amps:	0.6 Amps
@ 230 VAC; Amps:	0.3 Amps
Peak Input Power:	130 Watts
Average Input Power @ Max SPM:	50 Watts

Pulsatro	n Seri	es A P	lus Se	electio	n Guio	de			LB	Ŀ	· [1	. []
Models													
Product	I Flow Rate I			sure	Stroke	Standard	Max.						
Code	0.00	0.011	1.511		ing ¹	Rate	Valve	Viscosity	-				
S2	GPD 12	GPH 0.50	LPH 1.9	250	BAR 17	(SPM)	Size	(cps)	-				
<u>52</u> S3	33	1.38	5.2	150	10	250	J (TFE Only)						
S4	58	2.42	9.1	100	7	Ī	1						
C2	6	0.25	0.9	250	17								
<u>C3</u>	10	0.42	1.6	200		4		1,000					
02	6 12	0.25	0.9	150	10	125	J (TFE only)	.,					
03	24	0.50	1.9 3.8			125							
64	30	1.25	4.7	100	7		1						
C4	48	2.00	7.6	50	3.3		3						
Controls													
S	Manual C	ontrol			1		10.	1 Ctroke Lengt	h				
Ē	External I	Pace w/ A		I Switch	100:1 T	urndown		1 Stroke Lengt	11				
Р	Stop Fun	ction Optic	on					0:1 Frequency					
x	Manual C	ontrol			1000.1	Turndown	10:	1 Stroke Lengt	h				
^	(S2, S3 &	S4 sizes	only)		1000.1	Turnuowin	10	0:1 Frequency	1				
Electrical													
	115 VAC.	60Hz											
B			1 Ph, 6' (;	2m) cord	with 3 pro	ng US plug				_			
1	115 VAC,	60Hz less	s Agency	Approvals						_			
2						ess Agency							
						ats & O	-Rings / Ch	eck Balls					
PHC PTC		CSPE / Co TFE / Cer		0 PSI Ma	x)'								
VTC	PVC / TF	E / Ceram	nic (150 PS	SI Max) ¹									
WTC KTC	PVC / TF	E / Ceram FE / Cera	nic (models	s > 150 PS	SI Max): F	or use on	S2. C2. C3						
VVC	PVC / Vit	on / Cerar	nic (Nota	vailable w	ith J Valv	ve) (150 PS	I Max) ¹						
VHC	PVC / CS	SPE / Cera	mic (Not a	available v	vith J Valv	(150 PS	I Max) ¹						
Other		6 for addi	itional mat	erials of c	onstructio	n							
Connectio													
						from 0 - 3							
3						from 20 - 4 from 45 - 1							
9							oumps only)						
Metric													
R		hreads, .2											
	Tubing 6	<u>x 12mm, .</u>	<u>25" Ball, 0</u>	-7.1 LPH	1							_	
	See Page	7 for addi	nional con	lection of	nons								
Options	.		0.11										
XXX 130	StandardPump - No Options PVDF Tubing												
500		ction Valve											
520 ITS		ction Dega		e									
		S Tank S		CZEUPO		ONA. CZEE	RAXXX=France	Belgium C70		anuhl	ic:		
CZ_XXX		(X=Switzer							_011////=026	chan	ю,		
	0230177				nodel ni	imher sh	ould look lik	e 'I B03S∆-P	TC.I-XXX				
							rated to 15			 			

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

Dimensions



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

NOTE: Inches X 2.54 = cm

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

Pressure and Flow Rate Capacity

MODE	Ľ	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: Stroke Length Turn-Down Ratio: Power Input:

Average Current Draw: @ 115 VAC; Amps: @ 230 VAC; Amps: +/- 3% at maximum capacity 10:1 115 VAC/50-60 HZ/1 ph 230 VAC/50-60 HZ/1 ph

0.6 Amps 0.3 Amps @ 230 VAC



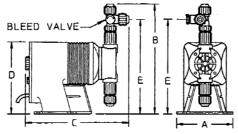
Contact factory for applicable agency approvals.



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.

PULSAtro	on Se	ries T7 Selection Guide
MODELS:	13 14 64 44	= 0.50 gph / 12 gpd (1.9 lph) max pres.: 100 PSI (7 BAR) = 1.00 gph / 24 gpd (3.8 lph) max pres.: 100 PSI (7 BAR) = 1.25 gph / 30 gpd (4.7 lph) max pres.: 100 PSI (7 BAR) = 2.00 gph / 48 gpd (7.6 lph) max pres.: 50 PSI (3.3 BAR)
CONTROLS:	В	= No Options Available
ELECTRICAL:	A 1 B 2	 = 115 Volt / 50-60Hz = 115 Volt / 50-60Hz (without agency approvals) = 230 Volt / 50-60Hz / 1ph with 6' (1.8m) 3-wire US Plug = 230 Volt / 50-60Hz (without agency approvals)
Fittings/Seats & O-rings/Balls	KTC VHC VTC	= GFPPL / CSPE / Ceramic = GFPPL / TFE / Ceramic = PVDF / TFE / Ceramic = PVC / CSPE / Ceramic = PVC / TFE / Ceramic
See page 6 fo	or additi	onal liquid end materials.
CONNECTION SIZES:	1 9 J METRI Y T	= Tubing .25" I.D. x .38" O.D. / .25" Ball, 0 - 1.88 GPH = Degas Head: .25" I.D. x .38" O.D. / 0-1.83 GPH = Tubing, .25" I.D. x .38" O.D. / .19 Ball; 0 - 1.04 GPH C: = 6 x 12mm, .25"" Ball, 0 - 7.10 LPH = 6 x 10mm, Degassing (Note: has 10mm suction), 0 - 7.10 LP
Please Refer	to page	• 7 for additional connection sizes. All pumps with tubing connections come with the
-	•	ept for LMH8, LPH8, LEH8, HV series pumps): 4' Suction, 4' Return, 8' dischage tubing,
footvalve/stra	ainer as	sy., injection valve and bleed valve.
SUFFIX CODES:	XXX 130 500 520 ITS	= No Additional Options = PVDF Tubing = Five Function Valve = Five Function Degas Valve = 15 gal. ITS Tank System
See pages 8	& 9 for a	additional information and specs.
		A completed model number should look like 'LC13BA-PTC1-XXX'



Series T7 Dimensions (inches									
Model No.	Model No. A B C D E								
model no.	~	D	0	U	-	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 = 0	Ċm					

PULSAtron[®] *Elec*

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.



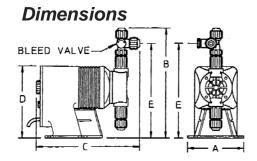
Pressure and Flow Rate Capacity

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:	125
Stroke Frequency Turn-Down Ratio:	10:1
Stroke Length Turn-Down Ratio:	10:1
Power Input:	115 VAC/50-60 HZ/1 ph
	230 VAC/50-60 HZ/1 ph
Average Current Draw:	
@ 115 VAC; Amps:	0.6 Amps
@ 230 VAC; Amps:	0.3 Amps @ 230 VAC
Peak Input Power:	130 Watts
Average Input Power @ Max SPM:	50 Watts

MODELS:	0n Se 02 03 04 54	eries C Plus Selection Guide LD = 0.25 gph / 6 gpd (0.9 lph) max pres.: 80 PSI (5.6 BAR) = 0.50 gph / 12 gpd (1.9 lph) max pres.: 80 PSI (5.6 BAR) = 1.00 gph / 24 gpd (3.8 lph) max pres.: 80 PSI (5.6 BAR) = 1.25 gph / 30 gpd (4.7 lph) max pres.: 80 PSI (5.6 BAR)
CONTROLS:	S E G P	= Manual = External Pacing w / Auto/Manual Switch = External Pacing w / Prime Button = Stop Function Option
ELECTRICAL	: A 1 B 2	 = 115 Volt / 50-60Hz = 115 Volt / 50-60Hz (without agency approvals) = 230 Volt / 50-60Hz / 1ph with 6' (1.8m) 3-wire US Plug = 230 Volt / 50-60Hz (without agency approvals)
LIQUID END MATERIALS: Pump Head & Fittings/Seats & O-rings/Balk	KTC VHC s VTC	= GFPPL / CSPE / Ceramic = GFPPL / TFE / Ceramic = PVDF / TFE / Ceramic = PVC / CSPE / Ceramic = PVC / TFE / Ceramic ional liquid end materials.
		· · · · · · · · · · · · · · · · · · ·
Connection Sizes:	A J METRI R Y	= Tubing .25" I.D. x .38" O.D. / .25" Ball, 0 - 1.88 GPH = Tubing .38" I.D. x .50" O.D. / .25" Ball, 0 - 1.88 GPH = Tubing, .25" I.D. x .38" O.D./ .19 Ball; 0 - 1.04 GPH IC: = G 1/2 A Threads, .25" Ball, 0 - 7.10 LPH = 6 x 12mm, .25" Ball, 0 - 7.10 LPH
following ite	ms (exc	e 7 for additional connection sizes. All pumps with tubing connections come with the cept for LMH8, LPH8, LEH8, HV series pumps): 4' Suction, 4' Return, 8' dischage tubing, ssv., injection valve and bleed valve.
SUFFIX CODES:	XXX 130 500 520	= No Additional Options = PV DF Tubing = Five Function Valve = Five Function Degas Valve
	ITS	= 15 gal. ITS Tank System (X = CE Approval (CZUKXX=UK; CZEUROXXX=Europe; CZEFRAXXX=France/Belgium; CZECRXXX=Czech Republic; CZSUIXXX=Sw itzerland/Liechtenstein)



Series C PLUS Dimensions (inches)							
Model	А	В	С	D	Е	Shipping	
No.						Weight	
LD02	5.0	9.6	9.5	6.5	8.2	10	
LD03	5.0	9.9	9.5	6.5	8.5	10	
LD04	5.0	9.9	9.5	6.5	8.5	10	
LD54	5.0	9.9	9.5	6.5	8.5	10	
	NOTE:	Inches X	2.54 = 0	cm			

PULSAtron®

Electronic Metering Pumps

Series C Key Features

- Automatic Control by external pacing with prime switch (optional).
- Manual Control by on-line adjustable stroke length (fixed stroke rate).
- Liquid Low Level Option available to prevent loss of prime.
- Agency approved for demanding OUTDOOR and indoor applications.
- Highly Reliable timing circuit.
- Water Resistant excellent for OUTDOOR and indoor applications.
- Internally Dampened To Reduce Noise, very acceptable for household installations.
- **Guided Ball Check Valve Systems,** to reduce back flow and enhance outstanding priming characteristics.
- Premium Standard Wetted Component Materials.
- Few Moving Parts and Wall Mountable.
- Safe & Easy Priming with durable leak-free bleed valve assembly (standard).



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				

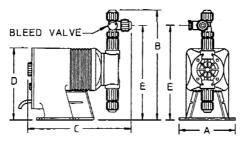
Engineering Data

Reproducibility: Viscosity Max CPS: Stroke Frequency Max SPM: Stroke Length Turn-Down Ratio: Power Input: +/- 3% at maximum capacity 1000 CPS 125 10:1 115 VAC/50-60 HZ/1 ph 230 VAC/50-60 HZ/1 ph

Average Current Draw: @ 115 VAC; Amps: @ 230 VAC; Amps: Peak Input Power: Average Input Power @ Max SPM:

0.6 Amps 0.3 Amps @ 230 VAC 130 Watts 50 Watts

PULSAtro	Series C Selection Guide	
MODELS:	2 = 0.25 gph / 6 gpd (0.9 lph) max pres.: 80 PSI (5.6 BAR) 3 = 0.50 gph / 12 gpd (1.9 lph) max pres.: 80 PSI (5.6 BAR) 4 = 1.00 gph / 24 gpd (3.8 lph) max pres.: 80 PSI (5.6 BAR) 4 = 1.25 gph / 30 gpd (4.7 lph) max pres.: 80 PSI (5.6 BAR)	
CONTROLS:	= Manual = External Pacing w / Auto/Manual Sw itch = External Pacing w / Prime Button = Stop Function Option	
ELECTRICAL:	 = 115 Volt / 50-60Hz = 115 Volt / 50-60Hz (without agency approvals) = 230 Volt / 50-60Hz / 1ph with 6' (1.8m) 3-wire US Plug = 230 Volt / 50-60Hz (without agency approvals) 	
LIQUID END MATERIALS: Pump Head & Fittings/Seats & O-rings/Balls See page 6 for	HC = GFPPL / CSPE / Ceramic TC = GFPPL / TFE / Ceramic HC = PVC / CSPE / Ceramic TC = PVC / TFE / Ceramic VC = PVC / Viton / Ceramic Additional liquid end materials.	
CONNECTION SIZES:	= Tubing .25" I.D. x .38" O.D. / .25" Ball, 0 - 1.88 GPH = Tubing .38" I.D. x .50" O.D. / .25" Ball, 0 - 1.88 GPH = Tubing, .25" I.D. x .38" O.D./ .19 Ball; 0 - 1.04 GPH ETRIC: = 4 x 6mm, .25" Ball, 0 - 3.94 LPH = 6 x 10mm, .25" Ball, 0 - 7.10 LPH	
follow ing iter	page 7 for additional connection sizes. All pumps with tubing connections come w (except for LMH8, LPH8, LEH8, HV series pumps): 4' Suction, 4' Return, 8' dischage er assv., injection valve and bleed valve.	
SUFFIX CODES:	 No Additional Options PVDF Tubing Five Function Valve Five Function Degas Valve Five Function Degas Valve S = 15 gal. ITS Tank System XXX = CE Approval (CZUKXXX=UK; CZEUROXXX=Europe; CZEFRAXXX=France/Belgium; CZECRXXX=Czech Republic; CZSUIXXX=Sw itzerland/Liechtenstein) 	
See pages 8	for additional information and specs. A completed model number should look like 'LC03SA-PTC1-XXX'	



Series C Dimensions (inches)							
Model No.	А	В	С	D	E	Shipping Weight	
	F 0	0 (0.5		0.0	weight	
LC02	5.0	9.6	9.5	6.5	8.2	10	
LC03	5.0	9.9	9.5	6.5	8.5	10	
LC04	5.0	9.9	9.5	6.5	8.5	10	
LC54	5.0	9.9	9.5	6.5	8.5	10	
NOTE: Inches X 2.54 = cm							

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

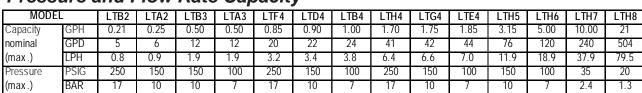
The Series ET counts pulses from a water meter. When the count exceeds a set value (either 1 or 10), the pump starts. The pump will continue to run for an adjustable time period. There are two time ranges – either 2 to 200 seconds or 12 seconds to 20 minutes. The setting is made by selecting a time base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

Features

- Isolated from Earth Ground
- 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 length adjust 0-100%.
- Agency approved for demanding OUTDOOR and indoor applications



Pressure and Flow Rate Capacity

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 Length Turn-Down Ratio:	10:1			
Power Input:	115 VAC/50-60 HZ/	1 ph		
	230 VAC/50-60 HZ/1 ph			
	5 Amp max			
Power Output:	120VAC or 250VA0	C @ 50/60 HZ, 5A max		

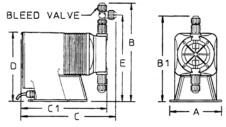




Contact factory for applicable agency approvals.

	on Series ET Selection Guide
MODELS:	B2 = 0.21 gph / 5 gpd (0.8 lph) max pres.: 250 PSI (17 BAR) F4 = 0.85 gph / 20 gpd (3.2 lph) max pres.: 250 PSI (17 BAR) H4 = 1.70 gph / 41 gpd (6.4 lph) max pres.: 250 PSI (17 BAR) A2 = 0.25 gph / 6 gpd (0.9 lph) max pres.: 150 PSI (10 BAR) B3 = 0.50 gph / 12 gpd (1.9 lph) max pres.: 150 PSI (10 BAR) D4 = 0.90 gph / 22 gpd (3.4 lph) max pres.: 150 PSI (10 BAR) G4 = 1.75 gph / 42 gpd (6.6 lph) max pres.: 150 PSI (10 BAR) H5 = 3.15 gph / 76 gpd (11.9 lph) max pres.: 150 PSI (10 BAR) H5 = 3.15 gph / 76 gpd (11.9 lph) max pres.: 150 PSI (10 BAR) H4 = 1.00 gph / 22 gpd (3.8 lph) max pres.: 100 PSI (7 BAR) B4 = 1.00 gph / 24 gpd (3.8 lph) max pres.: 100 PSI (7 BAR) E4 = 1.85 gph / 44 gpd (7.0 lph) max pres.: 100 PSI (7 BAR) H6 = 5.00 gph / 120 gpd (18.9 lph) max pres.: 35 PSI (2.4 BAR) H7 = 10.0 gph / 240 gpd (37.9 lph) max pres.: 32 PSI (2.4 BAR) H8 = 21.0 gph / 504 gpd (79.5 lph) max pres.: 20 PSI (1.3 BAR)
CONTROLS:	S = Manual On/Off
ELECTRICAL:	 A = 115 Volt / 50-60Hz 1 = 115 Volt / 50-60Hz (without agency approvals) B = 230 Volt / 50-60Hz / 1ph with 6' (1.8m) 3-wire US Plug 2 = 230 Volt / 50-60Hz (without agency approvals)
LIQUID END MATERIALS: Pump Head & Fittings/Seats & O-rings/Balls See page 6 for	KTC = PVDF / TFE / Ceramic (Consult factory for H8) VHC = PVC / CSPE / Ceramic
CONNECTION SIZES:	1 = Tubing .25" I.D. x .38" O.D. / .25" Ball, 0 - 1.88 GPH 3 = Tubing .38" I.D. x .50" O.D. / .38" Ball, 1.63 - 10 GPH 4 = Piping .25" FNPT / .38" Ball, 1.63 - 10 GPH B = Tubing .50" I.D. x .75" O.D. / .50" Ball, 21 GPH only METRIC: M M = G 1/2 A Threads, .38" Ball, 6.15 - 37.85 LPH R = G 1/2 A Threads, .25" Ball, 0 - 7.10 LPH Y = 6 x 12mm, .25" Ball, 0 - 7.10 LPH
following iter	to page 7 for additional connection sizes. All pumps with tubing connections come with the ms (except for LMH8, LPH8, LEH8, HV series pumps): 4' Suction, 4' Return, 8' dischage tubing, ainer assv., injection valve and bleed valve.
SUFFIX CODES:	XXX = No Additional Options 130 = PVDF Tubing 500 = Five Function Valve 520 = Five Function Degas Valve ITS = 15 gal. ITS Tank System (ITS Tank not available on LM, LP, LT, and LE: H4, H5, H6, H7, H8, J7, K7 models
See pages 8	& 9 for additional information and specs. A completed model number should look like 'LTA3SA-PTC1-XXX'
	A completed model number should look like "LTA35A-PTCT-XXX"

Series ET Dimensions (inches)								
Model No.	А	В	B1	С	C1	D	E	Shipping 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	-	10.9	-	10.6	8.2	-	25



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



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.

LB02SA-<u>PTC1</u>-XXX

These four digits represent your wet-end code.

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

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

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

The completed KOPkit number for the above example is:

K2PTC1

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



PULSAtron KOPki	t Selectio	on Guide			K		
HEAD SIZE	2 =				-		
The digits 2-8 follow ing the K	3 =						
represents the pump head	4 =						
size.	5 =						
	6 =						
This is represented by the	7 =						
fourth digit in the pump mode	8 – (Applies	to WTCB only-	for other optio	ns Consult f	actory)		
string.					uotory)		
HEADMATERIALS	A = 316 Sta					- 11	
	$\mathbf{K} = PVDF(\mathbf{k})$						
		Polypropylene) bly Vinyl Chlorid	o) (modole <-	150 pei			
		ng H7, H8, K7)		150 psi			
		dels > 150 psi	and H7. H8. K7	7)			
SEATS/O-RINGS	IH = CSPE		, . ,	/			
SEAT 5/0-RINGS	$\mathbf{V} = \text{Viton}$						
	$\mathbf{T} = TFE$						
BALLS	T = TFE C = Ceramic						
	S = 316 Stat						
	H = Alloy C						
	Type	Suction	Discharge	Spring			1
CONNECTION TYPE	1 = Tubing	.25" x .38"	Discharge .25" x .38"	Spring			
	2 = Piping	.25" FNPT	.25" FNPT				
	3 = Tubing	.38" x .50"	.38" x .50"				
	4 = Piping	.25" FNPT	.25" FNPT				
	5 = Tubing	.50" x .75"	.38" x .50"	Yes			
	6 = Piping	.25" FNPT	.25" FNPT	Yes			
	7 = Tubing	.50" x .75"	.50" FNPT	Yes			
	8 = Piping	.50" FNPT	.50" FNPT	Yes			
	9 = Tubing	25" x .38"	.25" x .38"	Yes Dega	IS		
	A = Tubing	.38" x .50"	.38" x .50"				
	B = Tubing C = Piping	.50" x .75" .50" FNPT	.50" x .75" .50" FNPT				
	$\mathbf{D} = \text{Tubing}$.25" x .38"	.25" x .38"	Yes			
	$\mathbf{E} = \text{Tubing}$.38" x .50"	.38" x .50"	Yes			
	$\mathbf{F} = \text{Tubing}$.38" x .50"	.38" x .50"	Yes			
	$\mathbf{G} = \text{Piping}$.25" FNPT	.25" FNPT	Yes			
	I = Piping	.50" MNPT	.50" MNPT	Yes			
	J = Tubing	25" x .38"	.25" x .38"				
	K = Tubing	.50" x .75"	.50" x .75"	Yes			
	L = Piping	.50" MNPT	.50" MNPT				
	M = Piping	G 1/2 A	G 1/2 A				
	N = Tubing P = Tubing	4 x 10 mm	4 x 10 mm				
	$\mathbf{Q} = \text{Tubing}$	4 x 6 mm 10 x 14 mm	4 x 6 mm 10 x 14 mm				
	$\mathbf{R} = \text{Piping}$	G 1/2 A	G 1/2 A				
	S = Tubing	6 x 10 mm	6 x 10 mm				
	$\mathbf{T} = \text{Tubing}$	6 x 10 mm	6 x 10 mm	Dega	s		
	U = Tubing	6 x 10 mm	6 x 10 mm	- 9-			
	V = Tubing	12 x 19 mm	12 x 19 mm				
	W = Tubing	10 x 16 mm	10 x 16 mm				
	Y = Tubing	6 x 12 mm	6 x 12 mm				
	X = Piping	.50" MNPT	.50" MNPT				

PULSATION[®] Suction/Discharge Valves

VALVE TYPE:	charge Valve Selection Guide L3 101 = Suction Valve 201 = Discharge Valve
SEATS:	H = CSPE V = Viton T = TFE
BALLS:	T = TFE C = Ceramic S = 316 Stainless Steel H = Alloy C (Hastelloy)
CONNECTION TYPE:	1 = Double Balls w hen TFE seats selected 2 = Double Balls w hen TFE seats selected 3 = Double Balls w hen TFE seats selected 4 = Double Balls w hen TFE seats selected 5* = Available for Discharge Only (L3201) 6 = 7* = Available for Suction Only (L3101) 8 = B* = C = D = Spring Loaded w ith SS Balls E = Spring Loaded w ith SS Balls F = Spring Loaded w ith SS Balls G = Spring Loaded w ith SS Balls I = J = K* = J = K* = Q = R = V = V* = V* = V* = Y =
MATERIALS OF CONSTRUCTION:	FPP = Glass Filled Polypropylene

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

ltε	۱	n

No . 1	n	
1	Part No. Description	.750
	L0200200-316 HEAD, POMP	.750 .750
1	L0200900-FPH HEAD, PUMP HSA #2 HEAD J	.750
1	L0200900-PV (HEAD, PUMP HSA #2 HEAD J	.750
1	L0200200-PVIHEAD, PUMP HSA #2 HEAD J	.750
1	L0200300-316 HEAD, PUMP	1.000
1	L0200300-FPF HEAD, PUMP	1.000
1		1.000
1	L0200300-PV[HEAD, PUMP L0200300-PV[HEAD, PUMP	1.000
1	L0200300-PV (HEAD, POIVIP L0201000-FPFI HEAD, PUMP HSA #3 HEAD J	1.000
1	1L0201000-PV(HEAD, PUMP HSA #3 HEAD J	1.000
1	L0201000-PVI HEAD, PUMP HSA #3 HEAD J	1.000
1	L0200400-316 HEAD, PUMP	1.250
1	L0200400-FPF HEAD, PUMP	1.250
1	L0200400-PV(HEAD, PUMP	1.250
1	L0200400-PV[HEAD, PUMP	1.250
1	L0200500-SSTHEAD, PUMP L0200500-FPH HEAD, PUMP	1.625 1.625
$\frac{1}{1}$	1L0200500-PP1 HEAD, POMP	1.625
$\frac{1}{1}$	1L0200500-PVIHEAD. PUMP	1.625
1	1L0200600-SSTHEAD, PUMP	2.000
1	L0200600-FPF HEAD, PUMP	2.000
1	L0200600-PV(HEAD, PUMP	2.000
1	L0200600-PVIHEAD, PUMP	2.000
1	L0200700-316 HEAD, PUMP	2.500
1		2.500
1		2.500
1		2.500
1	L0200800-PPL HEAD, PUMP L0200800-HPV HEAD, PUMP	3.625 3.625
2	L0200800-THYDIAPHRAGM	.750
2	L0301000-THN DIA PHRAGM	1.000
2	L0301100-THI DIAPHRAGM	1.250
2	L0301200-THIDIAPHRAGM	1.625
2	L0301300-THIDIAPHRAGM	2.000
2	L0301400-THY DIA PHRAGM	2.500
2		3.625
18	L1501300-HY SUC/DIS VLV O-RING, CSPE	
	121501300-VTI SUC/DIS VLV O-RING, VTN	
24		
24	L1100300-FPF COUPLING NUT 3/8" OD	
24	L1100300-PV (COUPLING NUT 3/8" OD	
24 24	L1100300-PV (COUPLING NUT 3/8" OD L1100300-PV (COUPLING NUT 3/8" OD	
24 24 24	L1100300-PV COUPLING NUT 3/8" OD L1100300-PV COUPLING NUT 3/8" OD L1100400-FPF COUPLING NUT 1/2" OD	
24 24 24 24	L1100300-PV (COUPLING NUT 3/8" OD L1100300-PV (COUPLING NUT 3/8" OD L1100400-FPF COUPLING NUT 1/2" OD L1100400-PV (COUPLING NUT 1/2" OD	
24 24 24 24 24 24	L1100300-PV (COUPLING NUT 3/8" OD L1100300-PV (COUPLING NUT 3/8" OD L1100400-FPF COUPLING NUT 1/2" OD L1100400-PV (COUPLING NUT 1/2" OD L1100400-PV (COUPLING NUT 1/2" OD	
24 24 24 24 24 24 25	L1100300-PV COUPLING NUT 3/8" OD L1100300-PV COUPLING NUT 3/8" OD L1100400-PPF COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD	
24 24 24 24 24 24 25 36	L1100300-PV (COUPLING NUT 3/8" OD L1100300-PV (COUPLING NUT 3/8" OD L1100400-FPF COUPLING NUT 1/2" OD L1100400-PV (COUPLING NUT 1/2" OD L1100400-PV (COUPLING NUT 1/2" OD	
24 24 24 24 24 24 25 36	L1100300-PV COUPLING NUT 3/8" OD L1100300-PV COUPLING NUT 3/8" OD L1100400-PPI COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L9906700-000 WEIGHT, CERAMIC TUBE L1501200-TFE BLEED VLV O-RING, TFE	
24 24 24 24 24 24 25 36 60	L1100300-PV COUPLING NUT 3/8" OD L1100300-PV COUPLING NUT 3/8" OD L1100400-FPF COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L9906700-000 WEIGHT, CERAMIC TUBE L1501200-TFE BLEED VLV O-RING, TFE L1500700-NTF SECONDARY SEAL, O-RING 2-109 DRIVE END COM PONENTS n	
24 24 24 24 24 25 36 60 ten	L1100300-PV COUPLING NUT 3/8" OD L1100300-PV COUPLING NUT 3/8" OD L1100400-FPF COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L9906700-000 WEIGHT, CERAMIC TUBE L1501200-TFE BLEED VLV O-RING, TFE L1500700-NTF SECONDARY SEAL, O-RING 2-109 DRIVE END COM PONENTS n Part No. Description	750
24 24 24 24 25 36 60 60 ten No. 3	L1100300-PV COUPLING NUT 3/8" OD L1100300-PV COUPLING NUT 3/8" OD L1100400-FFF COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L9906700-000 WEIGHT, CERAMIC TUBE L1501200-TFF BLEED VLV O-RING, TFE L1500700-NTF SECONDARY SEAL, O-RING 2-109 DRIVE END COM PONENTS n Part No. Description L2100200-FFF DEFLECTION PLATE	.750
24 24 24 24 24 25 36 60 60 80 3 3 3	L1100300-PV COUPLING NUT 3/8" OD L1100300-PV COUPLING NUT 3/8" OD L1100400-PP COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L100400-PF BLEED VLV O-RING, TFE L1500700-NTF BLEED VLV O-RING, TFE L1500700-FFF BLEED VLV O-RING VLV O-RING, TFE L1500700-FFF BLEED VLV O-RING VLV V L1500700-FFF BLEED VLV O-RING VLV V L1500700-FFF BLEED VL	1.000
24 24 24 24 25 36 60 60 80 3 3 3 3	L1100300-PV COUPLING NUT 3/8" OD L1100300-PV COUPLING NUT 3/8" OD L1100400-FFF COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L9906700-000 WEIGHT, CERAMIC TUBE L1501200-TFF BLEED VLV O-RING, TFE L1500700-NTF SECONDARY SEAL, O-RING 2-109 DRIVE END COM PONENTS n Part No. Description L2100200-FFF DEFLECTION PLATE	
24 24 24 24 25 36 60 3 3 3 3 3 3 3 3 3 3	L1100300-PV COUPLING NUT 3/8" OD L1100300-PV COUPLING NUT 3/8" OD L1100400-PPF COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L1100400-FPF BLEED VLV O-RING, TFE L1500700-NTF SECONDARY SEAL, O-RING 2-109 DRIVE END COM PONENTS n Part No. Description L2100200-FPF DEFLECTION PLATE L2100300-FPF DEFLECTION PLATE L2100400-FPF DEFLECTION PLATE	1.000 1.250
24 24 24 24 25 36 60 en No 3 3 3 3 3 3 3 3 3 3 3 3	L1100300-PV COUPLING NUT 3/8" OD L1100300-PV COUPLING NUT 3/8" OD L1100400-PPF COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L1501200-TFF BLEED VLV O-RING, TFE L1500700-NTF BLEED VLV O-RING, TFE L1500700-NTF SECONDARY SEAL, O-RING 2-109 DRIVE END COMPONENTS n Part No. Description L2100200-FPF DEFLECTION PLATE L2100300-FPF DEFLECTION PLATE L2100400-FPF DEFLECTION PLATE L2100500-FPF DEFLECTION PLATE	1.000 1.250 1.625
24 24 24 24 25 36 60 en No 3 3 3 3 3 3 3 4	L1100300-PV COUPLING NUT 3/8" OD L1100300-PV COUPLING NUT 3/8" OD L1100400-PP COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L100400-PF BLEED VLV O-RING, TFE L1500700-NTI SECONDARY SEAL, O-RING 2-109 DRIVE END COM PONENTS n Part No. Description L2100200-FPF DEFLECTION PLATE L2100300-FPF DEFLECTION PLATE L2100500-FPF DEFLECTION PLATE L2100600-FPF DEFLECTION PLATE L2100600-FPF DEFLECTION PLATE L2100700-FPF DEFLECTION PLATE L2100700-FPF DEFLECTION PLATE L2100700-FPF DEFLECTION PLATE L2100700-FPF DEFLECTION PLATE	1.000 1.250 1.625 2.000 2.500 HSG #2
24 24 24 24 25 36 60 en 3 3 3 3 3 3 4 4	L1100300-PV COUPLING NUT 3/8" OD L1100300-PV COUPLING NUT 3/8" OD L1100400-PP COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L1100400-FF BLEED VLV O-RING, TFE L1500700-NTF SECONDARY SEAL, O-RING 2-109 DRIVE END COM PONENTS n Part No. Description L2100200-FFF DEFLECTION PLATE L2100300-FFF DEFLECTION PLATE L2100300-FFF DEFLECTION PLATE L2100600-FFF DEFLECTION PLATE L2100600-FFF DEFLECTION PLATE L2100700-FFF DEFLECTION PLATE L2100700-FFF DEFLECTION PLATE L2100700-FFF ADAPTER, .750 L0400300-FFF ADAPTER, 1.000	1.000 1.250 1.625 2.000 2.500 HSG #2 HSG #2
24 24 24 24 25 360 en 3 3 3 3 3 4 4 4	L1100300-PV COUPLING NUT 3/8" OD L1100300-PV COUPLING NUT 3/8" OD L1100400-PP COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L15001200-TFB BLEED VLV O-RING, TFE L1500700-NTF SECONDARY SEAL, O-RING 2-109 DRIVE END COM PONENTS n Part No. Description L2100200-FPF DEFLECTION PLATE L2100300-FPF DEFLECTION PLATE L2100300-FPF DEFLECTION PLATE L2100600-FPF DEFLECTION PLATE L2100600-FPF DEFLECTION PLATE L2100600-FPF DEFLECTION PLATE L2100700-FPF DEFLECTION PLATE L2100700-FPF ADAPTER, .750 L0400300-FPF ADAPTER, 1.250	1.000 1.250 1.625 2.000 2.500 HSG #2 HSG #2 HSG #2
24 24 24 25 360 an No. 3 3 3 3 3 3 4 4 4 4 4	L1100300-PV COUPLING NUT 3/8" OD L1100300-PV COUPLING NUT 3/8" OD L1100400-PP COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L15001200-TFB BLEED VLV O-RING, TFE L1500700-NTF SECONDARY SEAL, O-RING 2-109 DRIVE END COM PONENTS n Part No. Description L2100200-FPF DEFLECTION PLATE L2100300-FPF DEFLECTION PLATE L2100300-FPF DEFLECTION PLATE L2100500-FPF DEFLECTION PLATE L2100600-FPF DEFLECTION PLATE L2100600-FPF DEFLECTION PLATE L2100700-FPF DEFLECTION PLATE L2100600-FPF ADAPTER, .750 L0400300-FPF ADAPTER, 1.250 L0400500-FPF ADAPTER, 1.625	1.000 1.250 1.625 2.000 2.500 HSG #2 HSG #2 HSG #2 HSG #2
24 24 24 25 360 en No. 3 3 3 3 3 3 4 4 4 4 4 4 4	L1100300-PV COUPLING NUT 3/8" OD L1100300-PV COUPLING NUT 3/8" OD L1100400-PV COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L12906700-000 WEIGHT, CERAMIC TUBE L1501200-TFE BLEED VLV O-RING, TFE L1500700-NTF SECONDARY SEAL, O-RING 2-109 DRIVE END COMPONENTS n Part No. Description L2100200-FPF DEFLECTION PLATE L2100300-FPF DEFLECTION PLATE L2100500-FPF DEFLECTION PLATE L2100600-FPF DEFLECTION PLATE L2100600-FPF DEFLECTION PLATE L2100600-FPF DEFLECTION PLATE L2100700-FPF ADAPTER, .750 L0400300-FPF ADAPTER, 1.250 L0400500-FPF ADAPTER, 1.250	1.000 1.250 1.625 2.000 2.500 HSG #2 HSG #2 HSG #2 HSG #2 HSG #3
24 24 24 24 25 360 eN 3 3 3 3 3 3 3 3 4 4 4 4 4 4 4 4 4	L1100300-PV COUPLING NUT 3/8" OD L1100300-PV COUPLING NUT 3/8" OD L1100400-PP COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L1100400-PF BLEED VLV O-RING, TFE L1500700-NT SECONDARY SEAL, O-RING 2-109 DRIVE END COMPONENTS n Part No. Description L2100200-FPH DEFLECTION PLATE L2100300-FPH DEFLECTION PLATE L2100400-FPH DEFLECTION PLATE L2100600-FPH DEFLECTION PLATE L2100600-FPH DEFLECTION PLATE L2100600-FPH DEFLECTION PLATE L2100700-FPH DEFLECTION PLATE L2100600-FPH ADAPTER, 1.250 L0400500-FPH ADAPTER, 1.625 L0400600-FPH ADAPTER, 1.625	1.000 1.250 1.625 2.000 2.500 HSG #2 HSG #2 HSG #2 HSG #3 HSG #3 HSG #3
24 24 24 24 25 360 n N 3 3 3 3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4	L1100300-PV COUPLING NUT 3/8" OD L1100300-PV COUPLING NUT 3/8" OD L1100400-PV COUPLING NUT 1/2" OD L1100400-PF BLEED VLV O-RING, TFE L1501200-TFE BLEED VLV O-RING, TFE L1500700-NTF SECONDARY SEAL, O-RING 2-109 DRIVE END COMPONENTS n Part No. Description L2100200-FPF DEFLECTION PLATE L2100300-FPF DEFLECTION PLATE L2100300-FPF DEFLECTION PLATE L2100600-FPF DEFLECTION PLATE L2100600-FPF DEFLECTION PLATE L2100700-FPF DEFLECTION PLATE L2100700-FPF ADAPTER, .750 L0400300-FPF ADAPTER, 1.250 L0400500-FPF ADAPTER, 1.250 L0400600-FPF ADAPTER, 1.250 L0400600-FPF ADAPTER, 1.250 L0400700-FPF ADAPTER, 1.250 L0400700-FPF ADAPTER, 1.250 L0400700-FPF ADAPTER, 1.250 L0400700-FPF ADAPTER, 1.250 L0400700-FPF ADAPTER, 1.250 L0400700-FPF ADAPTER, 1.250 L0400800-FPF ADAPTER, 1.250 L0400700-FPF ADAPTER, 1.200	1.000 1.250 1.625 2.000 2.500 HSG #2 HSG #2 HSG #2 HSG #3 HSG #3 HSG #3 HSG #3
24 24 24 25 360 eno 3 3 3 3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4	L1100300-PV COUPLING NUT 3/8" OD L1100300-PV COUPLING NUT 3/8" OD L1100400-PV COUPLING NUT 1/2" OD L1100400-PF BLEED VLV O-RING, TFE L1501200-TFE BLEED VLV O-RING, TFE L1500700-NTF SECONDARY SEAL, O-RING 2-109 DRIVE END COMPONENTS n Part No. Description L2100200-FPF DEFLECTION PLATE L2100300-FPF DEFLECTION PLATE L2100300-FPF DEFLECTION PLATE L2100600-FPF DEFLECTION PLATE L2100600-FPF DEFLECTION PLATE L2100700-FPF DEFLECTION PLATE L2100700-FPF ADAPTER, .750 L0400300-FPF ADAPTER, 1.250 L0400500-FPF ADAPTER, 1.250 L0400600-FPF ADAPTER, 1.250 L0400700-FPF ADAPTER, 1.250 L0400600-FPF ADAPTER, 1.250 L0400700-FPF ADAPTER, 1.250 L0400600-FPF ADAPTER, 1.250 L040070-FPF ADAPTER, 1.250 L0400600-FPF ADAPTER, 1.250 L040070-FPF ADAPTER, 1.250 L040070-FPF ADAPTER, 1.250 L040070-FPF ADAPTER, 1.250 L040070-FPF ADAP	1.000 1.250 1.625 2.000 2.500 HSG #2 HSG #2 HSG #2 HSG #3 HSG #3 HSG #3
24 24 24 25 360 eno 3 3 3 3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4	L1100300-PV COUPLING NUT 3/8" OD L1100300-PV COUPLING NUT 3/8" OD L1100400-PP COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L1501200-TFE BLEED VLV O-RING, TFE L1500700-NTF SECONDARY SEAL, O-RING 2-109 DRIVE END COMPONENTS n Part No. Description L2100200-FPF DEFLECTION PLATE L2100300-FPF DEFLECTION PLATE L2100300-FPF DEFLECTION PLATE L2100600-FPF DEFLECTION PLATE L2100600-FPF DEFLECTION PLATE L2100600-FPF DEFLECTION PLATE L2100700-FPF DEFLECTION PLATE L2100300-FPF ADAPTER, 1.000 L0400300-FPF ADAPTER, 1.250 L0400500-FPF ADAPTER, 1.625 L0400600-FPF ADAPTER, 1.625 L0400600-FPF ADAPTER, 1.625 L0400700-FPF ADAPTER, 2.500 L0400100-FPF ADAPTER, 2.500 L0400100-FPF ADAPTER, 2.500 L0401100-FPF ADAPTER, 7.50 L0401100-FPF ADAPTER, 1.000	1.000 1.250 2.500 2.500 HSG #2 HSG #2 HSG #2 HSG #3 HSG #3 HSG #3 HSG #3 HSG #3
24 24 24 24 25 360 m2 3 3 3 3 3 3 3 3 3 4 4 4 4 4 4 4 4 4 4	L1100300-PV COUPLING NUT 3/8" OD L1100300-PV COUPLING NUT 3/8" OD L1100400-PP COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L1501200-TFB BLEED VLV O-RING, TFE L1500700-NTF SECONDARY SEAL, O-RING 2-109 DRIVE END COM PONENTS n Part No. Description L2100200-PFP DEFLECTION PLATE L2100300-FPF DEFLECTION PLATE L2100300-FPF DEFLECTION PLATE L2100500-FPF DEFLECTION PLATE L2100600-FPF DEFLECTION PLATE L2100600-FPF DEFLECTION PLATE L2100700-FPF DEFLECTION PLATE L2100700-FPF ADAPTER, 1.50 L0400200-FPF ADAPTER, 1.625 L0400600-FPF ADAPTER, 1.625 L0400600-FPF ADAPTER, 1.625 L0400800-FPF ADAPTER, 1.625 L0400800-FPF ADAPTER, 2.500 L0400900-FPF ADAPTER, 2.500 L0400100-FPF ADAPTER, 2.500 L0400100-FPF ADAPTER, 7.50	1.000 1.250 1.625 2.000 2.500 HSG #2 HSG #2 HSG #3 HSG #3 HSG #3 HSG #3 HSG #3 HSG #3 HSG #3
24422422360 EN 3333334444444444444444444444444444444	L1100300-PV COUPLING NUT 3/8" OD L1100300-PV COUPLING NUT 3/8" OD L1100400-PP COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L1100400-PF BLEED VLV O-RING, TFE L1501200-TFE BLEED VLV O-RING, TFE L1500700-NTF SECONDARY SEAL, O-RING 2-109 DRIVE END COMPONENTS n Part No. Description L2100200-FPF DEFLECTION PLATE L2100300-FPF DEFLECTION PLATE L2100600-FPF DEFLECTION PLATE L2100600-FPF DEFLECTION PLATE L2100600-FPF DEFLECTION PLATE L2100700-FPF DEFLECTION PLATE L2100600-FPF ADAPTER, 1.750 L0400300-FPF ADAPTER, 1.250 L0400700-FPF ADAPTER, 1.250 L0400700-FPF ADAPTER, 1.625 L0400600-FPF ADAPTER, 1.625 L0400800-FPF ADAPTER, 1.625 L0400800-FPF ADAPTER, 1.625 L0400800-FPF ADAPTER, 1.625 L0400100-FPF ADAPTER, 1.625 L0400100-FPF ADAPTER, 1.625 L0400100-FPF ADAPTER, 1.625 L0400100-FPF ADAPTER, 1.000 L0401300-FPF ADAPTER, 1.000 L0401300-FPF ADAPTER, 1.000 L0401300-FPF ADAPTER, 1.000 L0401300-FPF ADAPTER, 1.250 L0401300-FPF ADAPTER, 1.250 L0401400-PPL ADAPTER, 3.625	1.000 1.250 1.625 2.000 2.500 HSG #2 HSG #2 HSG #3 HSG #3 HSG #3 HSG #3 HSG #3 HSG #3 HSG #1 HSG #1
24 24 24 25 36 en No 3 3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4	L1100300-PV COUPLING NUT 3/8" OD L1100300-PV COUPLING NUT 3/8" OD L1100400-PP COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L1100400-PV COUPLING NUT 1/2" OD L1100400-PF BLEED VLV O-RING, TFE L1501200-TFE BLEED VLV O-RING, TFE L1500700-NTF SECONDARY SEAL, O-RING 2-109 DRIVE END COMPONENTS n Part No. Description L2100200-FPF DEFLECTION PLATE L2100300-FPF DEFLECTION PLATE L2100600-FPF DEFLECTION PLATE L2100600-FPF DEFLECTION PLATE L2100600-FPF DEFLECTION PLATE L2100700-FPF DEFLECTION PLATE L2100600-FPF ADAPTER, 1.750 L0400200-FPF ADAPTER, 1.250 L0400700-FPF ADAPTER, 1.250 L0400700-FPF ADAPTER, 1.625 L0400600-FPF ADAPTER, 1.625 L0400800-FPF ADAPTER, 1.625 L0400800-FPF ADAPTER, 1.625 L0400100-FPF ADAPTER, 1.625 L0400100-FPF ADAPTER, 1.625 L0400100-FPF ADAPTER, 1.500 L0401100-FPF ADAPTER, 1.500 L0401100-FPF ADAPTER, 1.500 L0401100-FPF ADAPTER, 1.250 L0401300-FPF ADAPTER, 3.625 L9901200-BR SHIM, DIAPHRAGM	1.000 1.250 1.625 2.000 2.500 HSG #2 HSG #2 HSG #3 HSG #3 HSG #3 HSG #3 HSG #3 HSG #3 HSG #1 HSG #1
24 24 24 24 24 25 360 EN 33 33 33 33 34 44 44 44 44 44 44 44 45 6	L1100300-PV COUPLING NUT 3/8" OD L1100300-PV COUPLING NUT 3/8" OD L1100400-PV COUPLING NUT 1/2" OD L1100400-PF EBLEED VLV O-RING, TFE L1501200-TFE BLEED VLV O-RING, TFE L1500700-NTF SECONDARY SEAL, O-RING 2-109 DRIVE END COMPONENTS n Part No. Description L2100200-FPF DEFLECTION PLATE L2100300-FPF DEFLECTION PLATE L2100300-FPF DEFLECTION PLATE L2100500-FPF DEFLECTION PLATE L2100600-FPF DEFLECTION PLATE L2100700-FPF DEFLECTION PLATE L2100700-FPF ADAPTER, .750 L0400300-FPF ADAPTER, 1.250 L0400300-FPF ADAPTER, 1.250 L0400500-FPF ADAPTER, 1.250 L0400600-FPF ADAPTER, 1.250 L0400600-FPF ADAPTER, 1.250 L0400700-FPF ADAPTER, 1.250 L0400600-FPF ADAPTER, 1.250 L0400700-FPF ADAPTER, 1.250 L0400100-FPF ADAPTER, 1.250 L0400100-FPF ADAPTER, 1.250 L0400100-FPF ADAPTER, 1.250 L0400100-FPF ADAPTER, 1.250 L0401100-FPF ADAPTER, 3.625 L9901200-BR\$ SHIM, DIAPHRAGM L1500400-NTF EPWADAPTER O-RING	1.000 1.250 1.625 2.000 2.500 HSG #2 HSG #2 HSG #3 HSG #3 HSG #3 HSG #3 HSG #1 HSG #1 HSG #1 HSG #3
24 24 24 24 24 25 360 E2 33 33 33 33 4 4 4 4 4 4 4 4 4 4 4 4 4	L1100300-PV COUPLING NUT 3/8" OD L1100300-PV COUPLING NUT 3/8" OD L1100400-PV COUPLING NUT 1/2" OD L1501200-TFB BLEED VLV O-RING, TFE L1501200-TFB BLEED VLV O-RING, TFE L1500700-NTF SECONDARY SEAL, O-RING 2-109 DRIVE END COM PONENTS n Part No. Des cription L2100200-FPF DEFLECTION PLATE L2100300-FPF DEFLECTION PLATE L2100300-FPF DEFLECTION PLATE L2100500-FPF DEFLECTION PLATE L2100600-FPF DEFLECTION PLATE L2100700-FPF DEFLECTION PLATE L2100700-FPF ADAPTER, 1.750 L0400200-FPF ADAPTER, 1.625 L0400600-FPF ADAPTER, 1.625 L0400600-FPF ADAPTER, 1.625 L0400800-FPF ADAPTER, 1.625 L0400100-FPF ADAPTER, 3.625 L0400100-FPF ADAPTER, 3.625 L0400100-FPF ADAPTER, 3.625 L0400100-FPF ADAPTER, 0-RING L1500400-NTF EPWADAPTER O-RING (ALL H PUMF	1.000 1.250 1.625 2.000 2.500 HSG #2 HSG #2 HSG #3 HSG #3 HSG #3 HSG #3 HSG #3 HSG #3 HSG #1 HSG #1 HSG #3 HSG
24 24 24 24 24 24 25 360 E2 33 33 33 34 44 44 44 44 44 44 44 44 44	L1100300-PV COUPLING NUT 3/8" OD L1100300-PV COUPLING NUT 3/8" OD L1100400-PV COUPLING NUT 1/2" OD L1100400-PF BLEED VLV O-RING, TFE L1500700-NT SECONDARY SEAL, O-RING 2-109 DRIVE END COMPONENTS N Part No. Description L2100200-FPH DEFLECTION PLATE L2100300-FPH DEFLECTION PLATE L2100600-FPH DEFLECTION PLATE L2100600-FPH DEFLECTION PLATE L2100600-FPH DEFLECTION PLATE L2100700-FPH DEFLECTION PLATE L2100700-FPH DEFLECTION PLATE L2100700-FPH ADAPTER, 1.750 L0400300-FPH ADAPTER, 1.250 L0400500-FPH ADAPTER, 1.625 L0400600-FPH ADAPTER, 1.625 L0400600-FPH ADAPTER, 1.625 L0400600-FPH ADAPTER, 1.625 L0400700-FPH ADAPTER, 1.625 L0400700-FPH ADAPTER, 1.500 L0401300-FPH ADAPTER, 1.250 L0401200-FPH ADAPTER, 1.250 L0401200-FPH ADAPTER, 1.250 L04001300-FPH ADAPTER, 1.250 L04001300-FPH ADAPTER, 1.250 L04001300-FPH ADAPTER, 1.250 L0401100-FPH ADAPTER, 2.200 L0401100-FPH ADAPTER, 2.200 L	1.000 1.250 1.625 2.000 2.500 HSG #2 HSG #2 HSG #3 HSG #3 HSG #3 HSG #3 HSG #3 HSG #3 HSG #3 HSG #1 HSG #1 HSG #3 HSG #3 HSG #3 HSG #3 HSG #1 HSG
24 24 24 24 24 25 360 E2 33 33 33 33 34 44 44 44 44 44 44 44 44	L1100300-PV COUPLING NUT 3/8" OD L1100300-PV COUPLING NUT 3/8" OD L1100400-PV COUPLING NUT 1/2" OD L1100400-PF BLEED VLV O-RING, TFE L1500700-NT SECONDARY SEAL, O-RING 2-109 DRIVE END COM PONENTS N Part No. Description L2100200-FPH DEFLECTION PLATE L2100300-FPH DEFLECTION PLATE L2100600-FPH DEFLECTION PLATE L2100600-FPH DEFLECTION PLATE L2100600-FPH DEFLECTION PLATE L2100600-FPH DEFLECTION PLATE L2100600-FPH DEFLECTION PLATE L0400200-FPH ADAPTER, 1.750 L0400500-FPH ADAPTER, 1.250 L0400600-FPH ADAPTER, 1.625 L0400600-FPH ADAPTER, 1.625 L0400600-FPH ADAPTER, 1.625 L0400700-FPH ADAPTER, 1.625 L0400700-FPH ADAPTER, 1.625 L0400700-FPH ADAPTER, 1.500 L0401100-FPH ADAPTER, 1.250 L0401200-FPH ADAPTER, 1.250 L0401200-FPH ADAPTER, 1.250 L04001300-FPH ADAPTER, 1.250 L0400100-FPH ADAPTER, 1.250 L0401200-FPH ADAPTER, 2.627 L9801300-188 #10-32 X 2.62 PAN HEAD, PHILLIPS L9801300-188 #10-32 X 2.62 PAN HEAD, PHILLIPS	1.000 1.250 1.625 2.000 2.500 HSG #2 HSG #2 HSG #3 HSG #3 HSG #3 HSG #3 HSG #3 HSG #1 HSG #1 HSG #1 HSG #3 HSG #1 HSG
24 24 24 24 24 25 360 E2 3 3 3 3 3 3 3 3 3 3 4 4 4 4 4 4 4 4 4	L1100300-PV COUPLING NUT 3/8" OD L1100300-PV COUPLING NUT 3/8" OD L1100400-PV COUPLING NUT 1/2" OD L1100400-PF BLEED VLV O-RING, TFE L1500700-NT SECONDARY SEAL, O-RING 2-109 DRIVE END COM PONENTS N Part No. Description L2100200-FPF DEFLECTION PLATE L2100300-FPF DEFLECTION PLATE L2100600-FPF DEFLECTION PLATE L2100600-FPF DEFLECTION PLATE L2100600-FPF DEFLECTION PLATE L2100600-FPF DEFLECTION PLATE L2100700-FPF DEFLECTION PLATE L2100600-FPF ADAPTER, 1.250 L0400300-FPF ADAPTER, 1.625 L0400600-FPF ADAPTER, 1.625 L0400600-FPF ADAPTER, 1.625 L0400600-FPF ADAPTER, 1.625 L0400100-FPF ADAPTER, 1.625 L0401100-FPF ADAPTER, 1.625 L04	1.000 1.250 1.625 2.000 2.500 HSG #2 HSG #2 HSG #3 HSG #3 HSG #3 HSG #3 HSG #3 HSG #1 HSG #3 HSG #1 HSG #3 HSG #1 HSG #3 HSG #1 HSG #3 HSG #1 HSG #1 HSG #3 HSG #1 HSG
24224222360 E 2 3 3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 5 6 6 7 7 7 7	L1100300-PV COUPLING NUT 3/8" OD L1100300-PV COUPLING NUT 3/8" OD L1100400-PV COUPLING NUT 1/2" OD L1100400-PF BLEED VLV O-RING, TFE L1500700-NT SECONDARY SEAL, O-RING 2-109 DRIVE END COMPONENTS n Part No. Description L2100200-FPH DEFLECTION PLATE L2100300-FPH DEFLECTION PLATE L2100300-FPH DEFLECTION PLATE L2100600-FPH DEFLECTION PLATE L2100700-FPH DEFLECTION PLATE L2100700-FPH DEFLECTION PLATE L2100700-FPH ADAPTER, .750 L0400300-FPH ADAPTER, 1.250 L0400300-FPH ADAPTER, 1.250 L0400600-FPH ADAPTER, 1.250 L0400600-FPH ADAPTER, 1.250 L0400600-FPH ADAPTER, 1.250 L0400700-FPH ADAPTER, 1.250 L0400700-FPH ADAPTER, 1.250 L0400100-FPH ADAPTER, 1.250 L0401100-FPH AD	1.000 1.250 1.625 2.000 2.500 2.500 HSG #2 HSG #2 HSG #3 HSG #3 HSG #3 HSG #3 HSG #3 HSG #1 HSG #1 HSG #3 HSG #3 HSG #3 HSG #3 HSG #3 HSG #3 HSG #1 HSG #1 HSG #3 HSG
24 24 24 24 24 24 24 24 24 24 25 360 E2 33 33 33 34 44 44 44 44 44 44 44 45 66 777788	L1100300-PV COUPLING NUT 3/8" OD L1100300-PV COUPLING NUT 3/8" OD L1100400-PV COUPLING NUT 1/2" OD L1100400-PF BLEED VLV O-RING, TFE L1501200-TFF BLEED VLV O-RING, TFE L1500700-NTF SECONDARY SEAL, O-RING 2-109 DRIVE END COM PONENTS n Part No. Des cription L2100200-FPF DEFLECTION PLATE L2100300-FPF DEFLECTION PLATE L2100300-FPF DEFLECTION PLATE L2100700-FPF DEFLECTION PLATE L2100700-FPF DEFLECTION PLATE L2100700-FPF ADAPTER, .750 L0400200-FPF ADAPTER, 1.000 L0400400-FPF ADAPTER, 1.625 L0400600-FPF ADAPTER, 1.625 L0400800-FPF ADAPTER, 1.625 L0400800-FPF ADAPTER, 1.625 L0400800-FPF ADAPTER, 1.250 L0400100-FPF ADAPTER, 1.625 L0400800-FPF ADAPTER, 1.250 L0400100-FPF ADAPTER, 1.625 L0400800-FPF ADAPTER, 1.625 L0400800-FPF ADAPTER, 1.625 L0400800-FPF ADAPTER, 1.625 L0400100-FPF ADAPTER, 1.250 L0401100-FPF ADAPTER, 1.250 L0401100-FPF ADAPTER, 3.625 L9901200-BRS SHIM, DIAPHRAGM L1500400-NIT EPWADAPTER O-RING L1500400-NIT EPWADAPTER O-RING (ALL H PUMF L9801700-188 #10-32 X 2.62 PAN HEAD, PHILLIPS I L9801300-188 #10-32 X 2.00 PAN HEAD L9801300-188 #10-32 X 2.00 PAN HEAD	1.000 1.250 1.625 2.000 2.500 HSG #2 HSG #2 HSG #3 HSG #3 HSG #3 HSG #3 HSG #3 HSG #1 HSG #3 HSG #1 HSG #3 HSG #1 HSG #3 HSG #1 HSG #3 HSG #1 HSG #1 HSG #3 HSG #1 HSG
24 24 24 24 24 24 24 24 24 24 24 24 24 2	L1100300-PV COUPLING NUT 3/8" OD L1100300-PV COUPLING NUT 3/8" OD L1100400-PV COUPLING NUT 1/2" OD L1100400-PF BLEED VLV O-RING, TFE L1500700-NT SECONDARY SEAL, O-RING 2-109 DRIVE END COM PONENTS n Part No. Description L2100200-FPF DEFLECTION PLATE L2100300-FPF DEFLECTION PLATE L2100300-FPF DEFLECTION PLATE L2100700-FPF DEFLECTION PLATE L2100700-FPF DEFLECTION PLATE L2100700-FPF ADAPTER, 1.750 L0400300-FPF ADAPTER, 1.250 L0400300-FPF ADAPTER, 1.250 L0400600-FPF ADAPTER, 1.250 L0400600-FPF ADAPTER, 1.250 L0400700-FPF ADAPTER, 1.250 L0400700-FPF ADAPTER, 1.250 L0400100-FPF ADAPTER, 1.250 L0401100-FPF ADAPTER, 1.250 L0401100-FPF ADAPTER, 1.250 L0401100-FPF ADAPTER, 2.500 L0401100-FPF ADAPTER, 3.625 L9901200-BRS SHIM, DIAPHRAGM L1500400-NTF EPWADAPTER O-RING (ALL H PUMF L9801700-188 #10-32 X 2.62 PAN HEAD, PHILLIPS I L9801300-188 #10-32 X 2.00 PAN HEAD L9803300-188 #10-32 X 2.00 PAN HEAD L9803300-188 #10-32 X 2.00 PAN HEAD L9801300-188 #10-32 X 2.00 PAN HEAD L9801300-188 #10-32 X 2.00 PAN HEAD	1.000 1.250 1.250 2.500 2.500 2.500 HSG #2 HSG #3 HSG #3 HSG #3 HSG #3 HSG #3 HSG #41 HSG #1 HSG #1 HSG #3 HSG

DRIVE END COM	PONENTS
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ltem		DRIVE END COMPONENTS	
No. Part N		Description	
50 L010020		EPM D, E, LE33, 34, 44	115V
50 L010020		EPM D, E, LE33, 34, 44	230V
50 L010030		EPM F, G, K5	115V
50 L010030		EPM F, G, K5	230V 115V
50 L010040		EPM H7, K7	230V
50 L010040 50 L010050		EPM H7, K7 EPM LC, LD54 and LB64	230V 115V
50 L010050		EPM LC, LD54 and LB64	230V
50 L010060		EPM LE 2, 3, 12, 13, 14	115V
50 L010060		EPM LE 2, 3, 12, 13, 14	230V
50 L010020		EPM LS44	12VDC
50 L010060		EPM LS 2, 13, 14	12VDC
51 L050010	0-080		.080 STRK
51 L050110	0-040		.040 STRK
51 L050110	0-080	HOUSING #2	.080 STRK
51 L050030	0-040	HOUSING #1	.040 STRK
51 L050030			.080 STRK
52 L070010		CNTRL BD, A-B-D-E SIZE SLD	115V
52 L070010		CNTRL BD, A-B-D-E SIZE SLD	230V
52 L070020		CNTRL BD, EXT/STOP; A, B, D, E	115V
52 L070020		CNTRL BD, EXT/STOP; A, B, D, E	230V
52 L070040		CNTRL BD, 4-20MA/STOP; A, B, D, E	115V
52 L070040		CNTRL BD, 4-20MA/STOP; A, B, D, E	230V
52 L070050 52 L070050		CNTRL BD, F-G SIZE SLD	115V
		CNTRL BD, F-G SIZE SLD	230V
52 L070050 52 L070050		CNTRL BD, H-K SIZE SLD CNTRL BD. H-K SIZE SLD	115V 230V
52 L070050		CNTRL BD, H-K SIZE SLD	230V 115V
52 L070940		CNTRL BD, LEH8	230V
52 L070940	-	CNTRL BD, LEHO CNTRL BD, LVH7, LP/LVH8	230V 115V
52 L070910	-	CNTRL BD, LVH7, LP/LVH8	230V
52 L070080		CNTRL BD. EXT/STOP: F. G	115V
52 L070080		CNTRL BD, EXT/STOP; F, G	230V
52 L070080		CNTRL BD EXT/STOP H SIZE SLD	115V
52 L070080	2-200	CNTRL BD EXT/STOP H SIZE SLD	230V
52 L070930	1-220	CNTRL BD EXT/STOP LVH7, LP/LVH8	115V
52 L070930	2-220	CNTRL BD EXT/STOP LVH7, LP/LVH8	230V
52 L070090		CNTRL BD, 4-20 MA/STOP; F, G	115V
52 L070090		CNTRL BD, 4-20 MA/STOP; F, G	230V
52 L070090		CNTRL BD, 4-20 MA/STOP; H	115V
52 L070090		CNTRL BD, 4-20MA/STOP; H	230V
52 L070920		CNTRL BD, 4-20MA/STP, LVH7, LP/LVH8	115V
52 L070920		CNTRL BD, 4-20MA/STP, LVH7, LP/LVH8	230V
52 L070190 52 L990650		CNTRL BD, E - DC CNTRL BD, 0, 5 SIZE SING FUNC	1151/
52 L990650		CNTRL BD, 0, 5 SIZE SING FUNC	115V 230V
52 L990680		CNTRL BD, 0, 5 SIZE SING FONC	230V 115V
52 L990620		CNTRL BD, C+, A+	230V
52 L070270		CNTRL BD, LM A, B, C, D, E/K2, 3	2001
02 207 027 0	1 120	SIGNAL RELAY	115V
52 L070270	2-125	CNTRL BD, LM A, B, C, D, E/K2, 3	
		SIGNAL RELAY	230V
52 L070290	1-125	CNTRL BD, LM A, B, C, D, E/K2, 3	
		POWER RELAY	115V
52 L070290	2-125	CNTRL BD, LM A, B, C, D, E/K2, 3	
		POWER RELAY	230V
52 L070380	1-150	CNTRL BD, LM F, G, K5	
	o /=-	SIGNAL RELAY	115V
52 L070380	2-150	CNTRL BD, LM F, G, K5	
F01 0700	4 4 5 2	SIGNAL RELAY	230V
52 L070370	1-150	CNTRL BD, LM F, G, K5	
521 070270	2 1 5 0	POWER RELAY	115V
52 L070370	∠-150	CNTRL BD, LM F, G, K5	2201/
52 L070280	1-100	POWER RELAY CNTRL BD, LM H, K7 Signal Relay	230V 115V
52 L070280		CNTRL BD, LM H, K7 Signal Relay	230V
52 L070300		CNTRL BD, LMH, K7	115V
		POWER RELAY	115V
52 L070300	2-190	CNTRL BD, LM H, K7	
		POWER RELAY	230V
52 L070500	6-120	CNTRL BD, EXT, C+, A+	230V
52 L070510		CNTRL BD, EXT, SERIES C	230V
52 L070511		CNTRI BD EXT C (I C54)	230V
53 L060120		CNTRL PNL, SERIES MP SIGNAL, H & K7	
53 L060130		CNTRL PNL, SERIES MP SIGNAL	
53 L060140		CNTRL PNL, SERIES MP POWER	
53 L060150		CNTRL PNL, SERIES MP POWER, H & K7	
53 L060160		CNTRL PNL (ALL H & K7 PUMPS)	
54 L160040 54 L160050		DUST COVER, CONT PNL DUST COVER, CONT PNL	HSG #3 HSG #2
55 L200010		SHAFT, ADJ FEMALE .040	HSG #2,3
55 L200010		SHAFT, ADJ FEMALE .040	HSG #2,3
55 L200020		SHAFT, ADJ FEMALE .040	HSG #1
00020			

DRIVE END COMPONENTS

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DRIVE END COMPONENTS

ten	•	DRIVE END COMPONENTS	
	Part No.	Description	
	L2000200-080	SHAFT, ADJ FEMALE .080	HSG #1
	L2000300-PBT L2000400-PBT	SHAFT, ADJ MALE SHAFT, ADJ MALE	HSG #2,3 HSG #1
	L1500100-EPB	O-RING, HSG #1/CONT PNL	166#1
	L1500300-NTR	O-RING, HSG #2/CONT PNL	
59	L1500500-NTR	O-RING, HSG #3/CONT PNL	
	L9900600-000	CONNECTOR, LIQUID TIGHT	
	L9900700-000	CONNECTOR, STRAIN RELIEF	1051/
-	L9700300-000 L9700400-000	CORD, POWER, SERIES C, E CORD, POWER, SERIES C, E	125V 230V
	L9700400-000	CORD, POWER, SERIES C, E CORD, POWER, SERIES E PLUS	230V 125V
	L9701200-000	CORD, POWER, SERIES E PLUS	230V
	L9700700-250	CIRCUIT BREAKER, SERIES MP	
	L9707300-000	FUSE 2 AMP, SERIES E, E PLUS	
	L9706900-000	BOARD MNTD FUSE, SERIES A+, C+, C,	E
	L9800200-188 L1500800-NTR	CNTRL PNL SCREW GROMMET, STROKE LENGTH	
	L1900800-000	KNOB. STROKE RATE/SWITCH	
	L9700500-000	LOCKING TAB	
	L1900100-FPP	KNOB, STROKE LENGTH	
	L1900300-FPP	KNOB, STROKE LENGTH	
	L9800200-188 L1500900-NTR	KNOB MOUNTING SCREW GROMMET STROKE LENGTH	
	L5000801-115	CNTRL PANEL ASSY,	
0.	20000001 110	A-B-D-E SIZE SLDS	115V
81	L5000801-230	CNTRL PANEL ASSY,	
		A-B-D-E SIZE SLDS	230V
81	L5000901-115	CNTRL PANEL ASSY, EXT/STOP,	
04	1 5000001 000	A-B-D-E SIZE SLDS CNTRL PANEL ASSY. EXT/STOP.	115V
81	L5000901-230	A-B-D-E SIZE SLDS	230V
81	L5001001-115	CNTRL PANEL ASSY, 4-20MA/STOP,	230 V
Ŭ .		A-B-D-E- SIZE SLDS	115V
81	L5001001-230	CNTRL PANEL ASSY, 4-20MA/STOP,	
		A-B-D-E SIZE SLDS	230V
81	L5000301-230	CNTRL PANEL ASSY, F-G SIZE SLDS	230V
81	L5001301-115	CNTRL PANEL ASSY, H SIZE SLD	230V 115V
	L5001301-230	CNTRL PANEL ASSY, H SIZE SLD	230V
	L5028500-115	CNTRL PANEL ASSY, LEH8	115V
	L5028500-230	CNTRL PANEL ASSY, LEH8	230V
	L5028201-115	CNTRL PANEL ASSY, LVH7, LP/LVH8	115V 230V
	L5028200-230 L5001401-115	CNTRL PANEL ASSY, LVH7, LP/LVH8 CNTRL PANEL ASSY, EXT/STOP,	2300
0.	20001401 110	H SIZE SLD	115V
81	L5001401-230	CNTRL PANEL ASSY, EXT/STOP,	
		H SIZE SLD	230V
81	L5028301-115	CNTRL PANEL ASSY, EXT/STOP,	4451
81	L5028300-230	LVH7, LP/LVH8 CNTRL PANEL ASSY, EXT/STOP,	115V
01	LJ020300-230	LVH7, LP/LVH8	230V
81	L5001501-115	CNTRL PANEL ASSY, 4-20MA/STOP,	
		H SIZE SLD, 115V	115V
81	L5001501-230	CNTRL PANEL ASSY, 4-20MA/STOP,	
04	L5028401-115	H SIZE SLD	230V
01	10020401-115	CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V	115V
81	L5028401-230	CNTRL PANEL ASSY, 4-20MA/STOP,	1131
-		LVH7, LP/LVH8	230V
81	L5000100-012	CNTRL PANEL ASSY, E-DC	
		SIZE 01, 13, 14	
	L5000200-012 L5000100-115	CNTRL PANEL ASSY, E-DC SIZE 44 CNTRL PANEL ASSY, SERIES E	115V
	2000100-110	0-1/SIZE SLD	1150
81	L5000100-230	CNTRL PANEL ASSY, SERIES E	230V
		0-1/SIZE SLD	
	L5000200-115	CNTRL PANEL ASSY, 3-4 SIZE SLDS	115V
	L5000200-230	CNTRL PANEL ASSY, 3-4 ZISE SLDS	230V
01	L5002900-115	CNTRL PANEL ASSY SIN-FUNC 0-SIZE SLD, 115V SERIES C	
81	L5002900-230	CNTRL PANEL ASSY SIN-FUNC	
-		0-SIZE SLD, 230V SERIES C	
81	L5003000-115	CNTRL PANEL ASSY SIN-FUNC	
0.4		5-SIZE SLD, 115V SERIES C	
δΊ	L5003000-230	CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C	
81	L5011000-115	CNTRL PANEL ASSY EXT PACE	
ľ		SIZE 54, SERIES C	115V
81	L5013000-115	CNTRL PANEL ASSY EXT PACE	
		SIZE 54, SERIES C	115V
81	L5003014-115	CNTRL PANEL ASSY, EXT/STOP	
81	L5003015-115	K5 CNTRL PANEL ASSY, 4-20MA/STOP	115V
	2000010-110	K2	115V
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No. 81	Part No. L5003016-115	Description CNTRL PANEL ASSY, 4-20MA/STOP	
04			115V
_	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	
81	L5003903-115	K SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP	230V
81	L5003903-230	K7 CNTRL PANEL ASSY, 4-20MA/STOP	115V
81	L5004100-115	K7 CNTRL PANEL ASSY, SIN-FUNC	230V
81	L5004100-230	SIZE 54, 115V SERIES C PLUS CNTRL PANEL ASSY, SIN-FUNC	
81	L5010800-230	SIZE 54, 230V SERIES C PLUS CNTRL PANEL ASSY EXT PACE	
81	L5010900-230	SIZE 02, 03, 04, C3, C4 SERIES A+/C+ CNTRL PANEL ASSY EXT PACE	230V
81	L5005200-115	SIZE 54, 64 SERIES A+/C+	230V
_	L5005300-230	SIZE 02, 03, 04, C3, C4 SERIES A+/C+ CNTRL PANEL ASSY,	115V
_		SIZE 02, 03, 04, C3, C4 SERIES A+/C+	230V
-	L5004800-115	CNTRL PANEL ASSY, SIZE 54, 64 SERIES A+/C+	115V
_	L5004900-230	CNTRL PANEL ASSY, SIZE 54, 64 SERIES A+/C+	230V
_	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
81	L5007601-230	CNTRL PNL ASSY LMK2 POWER RELAY	230V
81	L5007401-230	CNTRL PNL ASSY LM A, B, C, D, E, K3 POWER RELAY	230V
81	L5007701-115	CNTRL PNL ASSY LMK5 SIGNAL RELAY	
81	L5007101-115	CNTRL PNL ASSY LM F, G	115V
81	L5007701-230	SIGNAL RELAY CNTRL PNL ASSY LMK5	115V
81	L5007101-230	SIGNAL RELAY CNTRL PNL ASSY LM F, G	230V
81	L5007801-115	SIGNAL RELAY CNTRL PNL ASSY LMK5	230V
81	L5007201-115	POWER RELAY CNTRL PNL ASSY LM F, G	115V
81	L5007801-230	POWER RELAY CNTRL PNL ASSY LMK5	115V
81	L5007201-230	POWER RELAY CNTRL PNL ASSY LM F, G	230V
_	L5007901-115	POWER RELAY CNTRL PNL ASSY LMK7	230V
-	L5006901-115	SIGNAL RELAY	115V
		SIGNAL RELAY CNTRL PNL ASSY LMK7	115V
	L5007901-230	SIGNAL RELAY	230V
	L5006901-230	CNTRL PNL ASSY LM H SIGNAL RELAY	230V
	L5008001-115	CNTRL PNL ASSY LMK7 POWER RELAY	115V
-	L5007001-115	CNTRL PNL ASSY H POWER RELAY	115V
	L5008001-230	CNTRL PNL ASSY LMK7 POWER RELAY	230V
81	L5007001-230	CNTRL PNL ASSY H POWER RELAY	230V
_	L9804000-000 L9800500-STL	GROUND LUG NUT GROUND LUG BOLT	
	L9800500-STL	BREAKER COVER	
	L9700200-000	CORD, SIGNAL, 10 FT	
	L9700201-000	CORD, SIGNAL, 20 FT	
	L9700800-000	PROTECTIVE BOOT, CKT BRKER	

BLEED VALVE ASSEMBLIES				
Item				
No. Part No.	Description	<u>OD</u>		
11 L3300H01-FPP	FPP/CSPE	3/8"		
11 L3300H01-PVC	PV C/CSPE	3/8"		
11 L3300H03-FPP	FPP/CSPE	1/2"		
11 L3300H03-PVC	PV C/CSPE	1/2"		
	FPP/TFE	3/8"		
11 L3300T01-PVC 11 L3300T01-PVD	PVC/TFE PVD/TFE	3/8"		
	=, =	3/8" 1/2"		
11 L3300T03-FPP 11 L3300T03-PVC	FPP/TFE PVC/TFE	1/2"		
11 L3300T03-PVC	PVD/TFE	1/2 1/2"		
11 L3300 V01-FPP	FPP/VTN	3/8"		
11 L3300V01-PVC	PPP/VIN PVC/VTN	3/8"		
11 L3300V01-PVD	PVD/VTN	3/8"		
11 L3300V03-FPP	FPP/VTN	3/8 1/2"		
11 L3300V03-PVC	PVC/VTN	1/2		
11 L3300V03-PVD		1/2"		
tem FOOT VAI	LVE/STRAINER ASSEMB	LIED		
No. Part No.	Description			
12 J40117	FPP/CSPE/C	3/8" X 1/2"I		
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	PVD/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"		

PVD/FTF/C STAINLESS STEEL VALVE REPAIR KITS

Part No. Description

TUBING		
L9904900-316	VALVE REPAIR KIT - ATSG	
L9904800-316	VALVE REPAIR KIT - ATS8	
L9904700-316	VALVE REPAIR KIT - ATS6	
L9904600-316	VALVE REPAIR KIT - ATS4	
	VALVE REPAIR KIT - A I S2	

т	UBI	NG

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	PV DF 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 No. Part No.	Description	ID X OD
13J41767	IFPP/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 41702 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"
13 J61021	PVD/FTF/C	3/8" X 1/2"
13 J41766	FPP/CSPE/C	1/4" X 3/8"
13 J41862	FPP/CSPE/316	1/4" X 3/8"
13 J41772	FPP/CSPE/TFE	1/4" X 3/8"
13 41715	FPP/VTN/C	1/4" X 3/8"
13 41701	FPP/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 1/4" X 3/8"
13 J61026	PVD/FTF/TFE	1/4 × 3/8 1/4" X 3/8"
13 J41911	FPP/CSPE/C	.25 NPT
13 J41901	FPP/VTN/C	.25 NPT
13 J41944		.25 NPT
	FPP/FTF/C PVC/CSPE/C	.25 NPT .25 NPT
13 J41904		
13 J41858	PVC/VTN/C	.25 NPT
13 J41908	PVC/FTF/C	.25 NPT
13 J61015	PV D/FTF/C	.25 NPT
13 J61025	316/FTF/316	.25 NPT
13 J41969	PV C/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
	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 Dow n	Minimum 3:1 constant torque							
Insulation	Class F or better							
Inverter Duty	Not Required							

Performance & Selection Table

MODEL		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	LPH	26.4	52.8	90.8	122	210	154	234	298.8 ¹	396	5221	828	1032 ¹
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			75		150			90		45	
(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
	1425	37	73	125	73	125	97	145	186	146	186	146	186
HP/kW Required 0.25 /			25 / 0.	18					0.50 / 0.37				
Connection Size		1/4" (F)NPT			1/2" (F)NPT OR (F)BSPT					1" (F)NPT OR (F)BSPT			

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

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



	2 thr	u DC6 Selection Guide
MODELS:	2A	= PVDF - 7.0 GPH (26.4 LPH)@60Hz & MPC or 5.8 GPH (22.0 LPH)@50Hz
	2A	= 316SS - 7.0 GPH (26.4 LPH)@60Hz & MPC or 5.8 GPH (22.0 LPH)@50Hz
	2B	= PVDF - 13.9 GPH (52.8 LPH)@60Hz & MPC or 11.6 GPH (44.0 LPH)@50Hz
	2B	= 316SS - 13.9 GPH (52.8 LPH)@60Hz & MPC or 11.6 GPH (44.0 LPH)@50Hz
	2C	= PVDF - 24.0 GPH (90.8 LPH)@60Hz & MPC or 20 GPH (75.7 LPH)@50Hz
	2C	= 316SS - 24.0 GPH (90.8 LPH)@60Hz & MPC or 20 GPH (75.7 LPH)@50Hz
	3B	= PV DF - 32.3 GPH (122.4 LPH)@60Hz & MPC or 26.9 GPH (102.0 LPH)@50Hz
	3B	= 316SS - 32.3 GPH (122.4 LPH) @ 60Hz & MPC or 26.9 GPH (102.0 LPH) @ 50Hz
	3C	= PV DF - 55.5 GPH (210 LPH) @60Hz & MPC or 46.2 GPH (175.0 LPH) @50Hz
	3C 4B	= 316SS - 55.5 GPH (210 LPH) @60Hz & MPC or 46.2 GPH (175.0 LPH) @50Hz
		= PVDF - 40.6 GPH (153.6 LPH)@60Hz & MPC or 33.8 GPH (128.0 LPH)@50Hz
	4B 4C	= 316SS - 40.6 GPH (153.6 LPH)@60Hz & MPC or 33.8 GPH (128.0 LPH)@50Hz
	4C 4C	= PV DF - 61.8 GPH (234 LPH)@60Hz & MPC or 51.5 GPH (195.0 LPH)@50Hz = 316SS - 61.8 GPH (234 LPH)@60Hz & MPC or 51.5 GPH (195.0 LPH)@50Hz
	40 4D	
	4D	= PVDF - 78.9 ¹ GPH (298.8 ¹ LPH)@60Hz & MPC or 65.8 GPH (249.0 LPH)@50Hz
	4D 5C	= 316SS - 78.9 ¹ GPH (298.8 ¹ LPH)@60Hz & MPC or 65.8 GPH (249.0 LPH)@50Hz = PP - 104.6 GPH (396 LPH)@60Hz & MPC or 87.2 GPH (330.0 LPH)@50Hz
	5C	= PV DF - 104.6 GPH (396 LPH)@60Hz & MPC of 87.2 GPH (330.0 LPH)@50Hz
	5C 5C	= 316SS - 104.6 GPH (396 LPH)@60Hz & MPC or 87.2 GPH (330.0 LPH)@50Hz
	5D	
	5D	= PP - 137.9 ¹ GPH (522 ¹ LPH)@60Hz & MPC or 114.9 GPH (435.0 LPH)@50Hz
	5D 5D	= PVDF - 137.91 GPH (5221 LPH) @60Hz & MPC or 114.9 GPH (435.0 LPH) @50Hz = 216SS - 137.01 CPH (5221 LPH) @60Hz & MPC or 114.0 CPH (435.0 LPH) @50Hz
	6C	= 316SS - 137.9 ¹ GPH (522 ¹ LPH) @60Hz & MPC or 114.9 GPH (435.0 LPH) @50Hz = PP - 218.7 GPH (828 LPH) @60Hz & MPC or 182.3 GPH (690.0 LPH) @50Hz
	6C 6C	
	6C 6C	= PV DF ² - 218.7 GPH (828 LPH)@60Hz & MPC or 182.3 GPH (690.0 LPH)@50Hz = 316SS - 218.7 GPH (828 LPH)@60Hz & MPC or 182.3 GPH (690.0 LPH)@50Hz
	6D	
	6D	= PP - 272.6 ¹ GPH (1032 ¹ LPH)@60Hz & MPC or 227.2 GPH (860.0 LPH)@50Hz
	6D	= PVDF ² - 272.6 ¹ GPH (1032 ¹ LPH)@60Hz & MPC or 227.2 GPH (860.0 LPH)@50Hz = 316SS - 272.6 ¹ GPH (1032 ¹ LPH)@60Hz & MPC or 227.2 GPH (860.0 LPH)@50Hz
Caution: This	-	p has a high stroke rate & needs at least 25 psig back pressure and water-like viscosity.
		subject to export restrictions
IOTOR:	1	= IEC 71 B14 Frame, 1PH 115/230V, 0.37kW (1/2HP), TEFC, Motor [50/60hz]*
	2	= 56C Frame, 1PH 115/230V, 0.37kW (1/2HP), TEFC, MOTOR (60hz)
	3	= IEC 71 B14 Frame, 3PH 220/380V (&460V), 0.37kW (1/2HP), TEFC, Motor [50/60hz]*
	4	= 56C Frame, 3PH 220/380V (&460V), 0.37kW (1/2HP), TEFC, MOTOR (60hz)
	5	= MPC with 56C frame motor - price included in MPC price
	6	= MPC NO MOTOR with 56C frame [Always @ 60 hz!] (price subtracted from MPC)
	7	= MPC with 71 frame motor - price included in MPC price
	8	= MPC NO MOTOR with 71 frame [Alw ays @ 60 hz!] (price subtracted from MPC)
	X Y	= NO MOTOR - 56C frame = NO MOTOR - IEC 71 B14 frame
In the Amer		ead time is 8 weeks for any pump with these motors.
	1003, 10	
vet end	Р	= PP Liqud End - PTFE Diaphragm and PTFE O-rings - Ceramic Ball Valves
ATERIALS:	F	= PV DF Liqud End - PTFE Diaphragm and PTFE O-rings - Ceramic Ball Valves
	Α	= 316SS Liquid End - PTFE Diaphragm and PTFE O-rings - 316SS Ball Valves
The DC2 has	s Cera	mic Ball Valves
ONNECTION	Р	= NPT
YPE	В	= Din ISO 228/1 (BSPT) (Not available on DC2 pumps)
ptional MPC		
ONTROL:		IK = No MPC Controller
	Μ	= MPC Controller
ONTROLLER	BLAN	IK = NO MPC CONTROLLER
IPUT	1	= 110-115V 50/60Hz ETL (UL & CSA) - Single Phase Only
OI TAGE	2	= 220-230V 50/60Hz CE & ETL (UL & CSA) - Single Phase Only
ontact facto	ry for	additional motor options. MPC output is 60Hz even if the input voltage is 50Hz - Select pump based on 60Hz
erformance		
XTENDED	BLAN	IK = NO MPC CONTROLLER
EMOTE	Х	= PUMP MOUNTED KEYPAD with standard 1.5m (4.5 feet) of cable
ABLE:	С	= EXTENDED REMOTE CABLE, KEY PAD MOUNTED OFF THE PUMP *
	IPC re	mote can be located up to 1000 feet (305m) away from the pump. Order extra cable by adding the line item part number
OTE: * The N	per fo	pot to the order. Will be shipped loose as a line item for field installation. Example: If 62 ft of cable is needed,
IOTE: * The N		NP530147-000. MPC - PANEL MOUNT: The MPC remote is already a NEMA 4X (IP56) rated enclsoure.
IOTE: * The N IP530147-000	es of l	
IOTE: * The N IP530147-000 rder 62 piec		ng this into a control panel, we suggest mounting the remote ""as is"" on the outside of a panel or next to a panel on the
OTE: * The N P530147-000 rder 62 piec istead of int	egrati	or wall or panel mounting is the same bracket that comes as standard on the pump. There is no chassis mount available.
OTE: * The N IP530147-000 rder 62 piec ostead of int vall. The bra	egrati icket f	or wall or panel mounting is the same bracket that comes as standard on the pump. There is no chassis mount available.
OTE: * The N P530147-000 rder 62 piec Istead of int vall. The bra ANGUAGE	egrati Icketf BLAN	or wall or panel mounting is the same bracket that comes as standard on the pump. There is no chassis mount available. IK = NO MPC CONTROLLER
OTE: * The N P530147-000 rder 62 piec 1stead of int /all. The bra ANGUAGE MPC will be	egrati I <u>cket f</u> IBLAN IE	or wall or panel mounting is the same bracket that comes as standard on the pump. There is no chassis mount available. IK = NO MPC CONTROLLER = English
OTE: * The N P530147-000 rder 62 piec stead of int vall. The bra ANGUAGE MPC will be hipped in	egratii Icket fo IBLAN E F	or wall or panel mounting is the same bracket that comes as standard on the pump. There is no chassis mount available. IK = NO MPC CONTROLLER = English = French
IOTE: * The N IP530147-000 order 62 piec nstead of int	egrati I <u>cket f</u> IBLAN IE	or wall or panel mounting is the same bracket that comes as standard on the pump. There is no chassis mount available. IK = NO MPC CONTROLLER = English

Mechanical Diaphragm Pumps

OMNI DC	7 Series Selection Guide
MODELS	7C = PP - 412 GPH (1560 LPH)@60Hz & MPC or 343.4 GPH (1300 LPH)@50Hz
	7C = PVDF ² - 412 GPH (1560 LPH)@60Hz & MPC or 343.4 GPH (1300 LPH)@50Hz
	7D = PP - 507 ¹ GPH (1920 ¹ LPH)@60Hz & MPC or 423 GPH (1600 LPH)@50Hz
	7D = PVDF ² - 507 ¹ GPH (1920 ¹ LPH)@60Hz & MPC or 423 GPH (1600 LPH)@50Hz
	Duplex Models 7J = PP - 824 GPH (3120 LPH)@60Hz & MPC or 687 GPH (2600 LPH)@50Hz
	7J = PVDF ² - 824 GPH (3120 LPH)@60Hz & MPC or 687 GPH (2600 LPH)@50Hz
	7K = PP - 1014 ¹ GPH (3840 ¹ LPH)@60Hz & MPC or 845 GPH (3200 LPH)@50Hz
	7K = PV DF ² - 1014 ¹ GPH (3840 ¹ LPH)@60Hz & MPC or 845 GPH (3200 LPH)@50Hz
¹ Caution: This	s pump has a high stroke rate & needs at least 25 psig back pressure and water-like viscosity.
	os are subject to export restrictions.
MOTORS	1 = 90 IEC FRAME
	2 = 100 IEC FRAME 3 = 56C FRAME
	4 = 145 TC FRAME
WET END	P = PP Ligud End - PTFE Diaphragm and PTFE O-rings - Ceramic Ball Valves
MATERIALS:	F = PVDF Liqud End - PTFE Diaphragm and PTFE O-rings - Ceramic Ball Valve
	 X = No Motor Purchased (Pump will come with Main Assy and Motor Frame Kit M = Motor Purchased (as line Item) (Pump will come completely assembled)
	m - Motor Furchased (as me non) (Furp wincome completely assembled)

MPC Vec MODELS	tor Selection Guide EP C B - IEP = MPC VECTOR EP C B -
ENCLOSURE	C = NEMA 4X (IP56)
RATINGS	B = 2 HP (1.5kW) 208-240 VAC, 1 Phase, 50/60 Hz
LANGUAGE	X = English A = German B = French C = Spanish
	A completed model number should look like "EPCBX"

Motor Selection							
Part Number	Power (hp/kW)	Volts	Phase	Hz	RPM	Frame	Enclosure
M D496	1.5 / 1.1	208-230 /		60	1725	NEMA 56C	
W773127-001 **	2 / 1.5 (DC7 Duplex)	460	3	60	1725	NEMA 1451C	TEFC
NP500622-000	1.5 / 1.1	460		60	1140	NEMA 56C	
NP500619-000	1.5 / 1.1				1425 / 1725		
NP500624-000 **	2 / 1.5 (DC7 Duplex)	220 / 380	3	50/60) 1425 / 1725	IEC 90	TEFC
NP500621-000	1.5 / 1.1				940 / 1140		

Performance & Selection Table

MODEL		DC7C	DC7D	DC7J	DC7K			
Capacity	GPH	412	412 507 ¹ 824 1014					
60 hz & MPC	LPH	1560	1920 ¹	3120	38401			
Capacity	GPH	343	423	687	845			
50 hz	50 hz LPH		1300 1600 2600 32					
Pressure	PSIG	60						
(max.)	BAR		4.	1				
SPM @	1725	175	223 ¹	175	223 ¹			
	1425	146	186	146	186			
HP/kW Requi	1.5 / 1.1 2 / 1.5							
Connection S	1 1/2" (F)NPT, ANSI 1 1/2" & DIN 40 FLANGE							

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

Commo	<u>n Pu</u> mp	<u>Acces</u> sori	<u>es - Om</u>	ni & Others	150	PSI Pu	<u>Isatio</u> n D	Chargeable	
Component	Size	Materia	al	Part No.	Volume	Body	Bladder	Connection	Part Number
Drip Cover,							EPDM	3/8" FNPT	W777614-PPN
Motor	56C	Steel. Baldor		NP999119			CSPE	3/8" FNPT	W777614-PPH
	1/2"	PVC/TFE		NA100001-PVC	41		TFE	3/8" FNPT	W777614-PPT
	<u>1/2"</u> 1/2"	PVDF/TFE SS/TFE		NA100001-PVD	41	POLY	Viton	3/8" FNPT	W777614-PPV
ressure Reli		PVC/TFE		NA100001-316 NA100002-PVC	11		CSPE TFE	1/2" FNPT 1/2" FNPT	L9908300-HYI
Valves	1"	PVDF/TFE		NA100002-PVD	11		Viton	1/2" FNPT	L9908300-1FE
Valves	1"	SS/TFE		NA100002-316	11		CSPE	1/2" FNPT	L9908400-HYI
	1.5"	PVC/TFE		NA100003-PVC	10 cubic	PVC	TFE	1/2" FNPT	L9908400-TFE
	1.5"	PVDF/TFE		NA100003-PVD	inches		Viton	1/2" FNPT	L9908400-VIT
	1/2"	PVC/TFE		NA200001-PVC]		EPDM	3/8" FNPT	W777614-PVN
	1/2"	PVDF/TFE		NA200001-PVD	11	PVDF	CSPE	3/8" FNPT	W777614-PVH
	1/2"	SS/TFE		NA200001-316	41		TFE	3/8" FNPT	W777614-PVT
Back Pressur	-	PVC/TFE		NA200002-PVC	4 1		Viton	3/8" FNPT	W777614-PVV
Valves	<u>1"</u>	PVDF/TFE		NA200002-PVD	4 1		EPDM	3/8" FNPT	W777611-16N
	1.5"	SS/TFE PVC/TFE		NA200002-316 NA200003-PVC	{ }	316 SS	CSPE TFE	3/8" FNPT 3/8" FNPT	W777611-16H W777611-16T
	1.5	PVDF/TFE		NA200003-PVC	11		Viton	3/8" FNPT	W777611-16V
Gauge	1.3	PVDF/TFE		NA500001-PVC	1		EPDM	3/4" FNPT	W777616-PPN
Isolator w/	1/4"	PVDF/TFE		NA500001-PVD	11	DOLY	CSPE	3/4" FNPT	W777616-PPH
200PSI Gaug		316SS/TFE		NA500001-316	11	POLY	TFE	3/4" FNPT	W777616-PPT
	1/2"	PVC 100mL		NA300001-PVC	11		Viton	3/4" FNPT	W777616-PPV
	1/2"	PVC 200mL		NA300002-PVC			EPDM	3/4" FNPT	W777616-PVN
	3/4"	PVC 500mL		NA300003-PVC	85 cubic	PVDF	CSPE	3/4" FNPT	W777616-PVH
	3/4"	PVC 1000mL		NA300004-PVC	inches	1 1 2 1	TFE	3/4" FNPT	W777616-PVT
	1"	PVC 2000mL		NA300005-PVC	4 1		Viton	3/4" FNPT	W777616-PVV
	1" 2"	PVC 4000mL		NA300006-PVC	4 1		EPDM	3/4" FNPT	W777613-16N
	2"	PVC 10,000mL PVC 20,000mL		NA300007-PVC NA300008-PVC	{ }	316 SS	CSPE TFE	3/4" FNPT 3/4" FNPT	W777613-16H W777613-16T
	1/2"	Glass/PVD 100m	1	NA300009-PVD	t		Viton	3/4 FNFT 3/4" FNPT	W777613-16V
Calibration	1/2"	Glass/PVD 200m		NA300010-PVD	1		EPDM	2" FNPT	W777618-PPN
Column	3/4"	Glass/PVD 500n		NA300011-PVD			CSPE	2" FNPT	W777618-PPH
	3/4"	Glass/PVD 1000		NA300012-PVD	11	POLY	TFE	2" FNPT	W777618-PPT
	1"	Glass/PVD 2000		NA300013-PVD	11		Viton	2" FNPT	W777618-PPV
	1"	Glass/PVD 4000)mL	NA300014-PVD			EPDM	2" FNPT	W777618-PVN
	1/2"	Glass/SS 100mL		NA300015-316	370 cubic	PVDF	CSPE	2" FNPT	W777618-PVH
	1/2"	Glass/SS 200mL		NA300016-316	inches		TFE	2" FNPT	W777618-PVT
	3/4"	Glass/SS 500mL		NA300017-316			Viton	2" FNPT	W777618-PVV
	3/4"	Glass/SS 1000m		NA300018-316	11		EPDM	2" FNPT	W777631-16N
	1"	Glass/SS 2000m		NA300019-316	41	316 SS	CSPE	2" FNPT	W777631-16H
	1"	Glass/SS 4000m		NA300020-316	11		TFE	2" FNPT	W777631-16T
	<u>1/2"</u> 1/2"	PVC CPVC		40085 NA400001-CPVC	┨┠────		Viton EPDM	2" FNPT 3/4" FNPT	W777631-16V W777615-PPN
	1/2"	PVD		NA400001-0FV0	11		CSPE	3/4" FNPT	W777615-PPH
Y Strainer	1"	PVC		NA400002-PVC		POLY	TFE	3/4" FNPT	W777615-PPT
	1"	CPVC		NA400002-CPVC	11		Viton	3/4" FNPT	W777615-PPV
	1"	PVD		NA400002-PVD	11		EPDM	3/4" FNPT	W777615-PVN
			0		36 cubic		CSPE	3/4" FNPT	W777615-PVH
	<u>NUPKI</u> t	Selection	Guide		inches	PVDF	TFE	3/4" FNPT	W777615-PVT
Туре	Wetted		KOPkit				Viton	3/4" FNPT	W777615-PVV
Connection	Material	Pump	Number				EPDM	3/4" FNPT	W777612-16N
NPT	PVDF		NLK020FF			316 SS	CSPE	3/4" FNPT	W777612-16H
NPT	PVDF		NLK040FF			310 55	TFE	3/4" FNPT	W777612-16T
BSPT	PVDF		NLK040FE	3			Viton	3/4" FNPT	W777612-16V
NPT	PVDF	DC5	NLK050FF				EPDM	2" FNPT	W777617-PPN
BSPT	PVDF	DC5	NLK050FE	3		POLY	CSPE	2" FNPT	W777617-PPH
NPT	PVDF	DC6	NLK060F	2		PULT	TFE	2" FNPT	W777617-PPT
BSPT	PVDF	DC6	NLK060F				Viton	2" FNPT	W777617-PPV
NPT	PP	DC5	NLK050P				EPDM	2" FNPT	W777617-PVN
BSPT	PP	DC5	NLK050P		175 cubic	PVDF	CSPE	2" FNPT	W777617-PVH
NPT	PP	DC6	NLK060P	귀	inches		TFE	2" FNPT	W777617-PVT
BSPT		DC6	NLK060P				Viton	2" FNPT	W777617-PVV
	PVDF & PF		NLK070X				EPDM	2" FNPT	W777630-16N
NPT	316SS	DC2	NLK020AF			316 SS	CSPE	2" FNPT	W777630-16H
NPT	316SS		NLK040AF			310 55	TFE	2" FNPT	W777630-16T
BSPT	316SS		NLK040AE				Viton	2" FNPT	W777630-16V
NPT	316SS	DC5	NLK050AF			Specificat		ximum Pressure	
BSPT NPT	316SS	DC5	NLK050AE						
INF I	316SS	DC6	NLK060A	1					



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.





VO.

Contact factory for applicable agency approvals.

Chem-Tech XP Series Selection Guide													
Chem-lech	XP Se	eries Selection							XP		-		
	Pump		Pres	ssure Rati	ing - PSI (Tube	Speed					
	Size	Flow		e Head Op		Duplex	Size	(RPM)					
			'H' lube	'L' Tube			0.20	•					
		4 GPD (0.6 LPH)	125 (8.6)	80 (5.5)	60 (4.1)	80 (5.5)	2	30					
	XP007 7 GPD (1.1 LPH) 123 (6.6) 80 (5.3) 60 (4.1) 2 50 XP009 9 GPD (1.4 LPH) 110 (7.6) 70 (4.8) 50 (3.4) 70 (4.8) 3 30												
MODELS:		15 GPD (2.4 LPH)	110 (7.6)	70 (4.8)	50 (3.4)	70 (4.0)	3	50					
		14 GPD (2.3 LPH)	100 (5 0)	50 (0 4)	40 (0 0)	50 (3.4)	4	30					
		23 GPD (3.6 LPH)	100 (5.9)	50 (3.4)	40 (2.8)		4	50					
	XP030	30 GPD (4.7 LPH)	80 (5.5)	40 (2.8)		40 (2.8)	6	30					
		50 GPD (7.9 LPH)		40 (2.0)			0	50					
		48 GPD (7.5 LPH)		25 (1.7)		25 (1.7)	8	30					
	XP080	80 GPD (12.6 LPH)		-• ()				50					
		115V. 60Hz											
	Ĥ	230V. 50/60Hz											
ELECTRICAL:	R	230V, 50Hzwith Ground	ded Right Ar	ngle Europea	n Plug								
	Note: 50	Hz pumps will produce	5/6 of the ra	ted flow									
	_												
	F	Fixed Rate, On / Off Only											
	A	Adjustable 20:1 Turndown, On / Off with Current Interrupter Timer											
	G B	Duplex Head - Fixed Rate, On / Off Only, 'L' Tube											
	 1	Duplex Head - Adjustable, On / Off with Current Interrupter Timer, 'L' Tube Pulse Input., 1 to 1 Second Timer											
	2	Pulse Input, .2 to 10 Se											
DRIVE:	3	Pulse Input, 1 to 60 Se											
	4	Dry Contact Input - Fix		nn									
	5	Dry Contact Input - Ad											
	6	Flow Switch Activated			tch - Fixed F	Rate Pump							
	7	Flow Switch Activated with 3/4" NPT Flow Switch - Adjustable Rate Pump											
	8	7 Day - 8 Event Electro	onic Timer -	Fixed Rate	Pump								
	-	Low Pressure Norprene	o with 1/4" T	ubo Eittingo									
	L H	High Pressure Norpren											
	3	Low Pressure Norpren											
TUBING:	4	High Pressure Norpren											
	F	Fluran, Acid resistant t				ot include st	rainer &	injector a	ccessories				
	G	Fluran, Acid resistant t											
	X	Pump Only											
SYSTEM:	1	15 Gallon Tank System											
	3 T	35 Gallon Tank System	1										
		15 Gallon ITS System	malatad m	adal ahau	Id look lik	A "VD020L					_	_	
		A CO	mpleted m			e APU3UL	FLA						



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



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

Chem-Tech XPV Series Selection Guide											
	Pump				ting - PSI	(Bar)	Tube	Speed	1		
	Size	Flow	•	e Head Op		Duplex	Size	(RPM)			
	0				'F' Tube	'L' Tube		(131147)	l		
	XP008		125 (8.6)		60 (4.1)	80 (5.5)	2	65			
MODELO.	XP017	17 GPD (2.7 LPH)		70 (4.8)	50 (3.4) ¹	70 (4.8)	3	Max.			
	XP033			50 (3.4)	40 (2.8) ²	50 (3.4)	4	Max.			
	XP055	1		40 (2.8)		40 (2.8)	6	60	T		
	XP100	100 GPD (15.8 LPH)		25 (1.7)		25 (1.7)	8	Max.			
ELECTRICAL:	L 115V, 60Hz H 230V, 60/50Hz R 230V, 60/50Hz with Grounded Right Angle European Plug										
DRIVE:	V G		Variable Input Control with I/O Cable Duplex Head - Low Pressure Norprene with 1/4" Tube Fitting								
TUBING:	TUBING: L Low Pressure Norprene w ith 1/4" Tube Fittings H High Pressure Norprene w ith 1/4" Tube Fittings Low Pressure Norprene w ith 3/8" Tube Fittings High Pressure Norprene w ith 3/8" Tube Fittings High Pressure Norprene w ith 3/8" Tube Fittings F Fluran, Acid resistant tubing w ith 1/4" Tube Fittings (Doesnot include strainer & injector accessories) G Fluran, Acid resistant tubing w ith 3/8" Tube Fittings (Doesnot include strainer & injector accessories)										
	X	Pump Only									
0/07.74	1	15 Gallon Tank Syst	em								
SYSTEM:	3 T	35 Gallon Tank Syst 15 Gallon ITS Syste	em								
·				nodelsho	ould 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 Schedule

Part Number Description

Part Number	Description
KOPkits - Low Pressu	ure
NCKA2LPAP1	KOPkit XP - 004 / 007 / 008
NCKA3LPAP1	KOPkit XP - 009 / 015 / 017
NCKA4LPAP1	KOPkit XP - 023 / 033 / 014
NCKA6LPAP1	KOPkit XP - 030 / 050 / 055
NCKA8LPAP1	KOPkit XP - 048 / 080 / 100
KOPkits - High Pressu	ıre
NCKA2HPAP1	KOPkit XP - 004 / 007 / 008
NCKA3HPAP1	KOPkit XP - 009 / 015 / 017
NCKA4HPAP1	KOPkit XP - 023 / 033 / 014
NCKA6HPAP1	KOPkit XP - 030 / 055
NCKA24PAP1	KOPkit XP - 004 / 008 - 3/8"
NCKA44PAP2	KOPkit XP - 033 / 014 - 3/8"
KOPkits - Duplex Low	Pressure
NCKD2LPAP1	KOPkit XP - 004 / 008
NCKD3LPAP1	KOPkit XP - 009 / 017
NCKD4LPAP1	KOPkit XP - 033 / 014
NCKD6LPAP1	KOPkit XP - 030 / 055
NCKD8LPAP1	KOPkit XP - 048 / 100
TUBE KITS	
Low Pressure 1/4" Tu	ıbe Fittings
NC90XX2LPA-XXXXX	Kit, Tube Assy - 004 / 007 / 008
NC90XX3LPA-XXXXX	Kit, Tube Assy - 009 / 015 / 017
NC90XX4LPA-XXXXX	Kit, Tube Assy - 023 / 033 / 014
NC90XX6LPA-XXXXX	Kit, Tube Assy - 030 / 050 / 055
NC90XX8LPA-XXXXX	Kit, Tube Assy - 048 / 080 / 100
High Pressure 1/4" Tu	ıbe Fittings
NC90XX2HPA-XXXXX	Kit, Tube Assy - 004 / 007 / 008
NC90XX3HPA-XXXXX	Kit, Tube Assy - 009 / 015 / 017
NC90XX4HPA-XXXXX	Kit, Tube Assy - 023 / 033 / 014
NC90XX6HPA-XXXXX	Kit, Tube Assy - 030 / 055
Low Pressure 3/8" Tu	
NC90XX23PA-XXXXX	Kit, Tube Assy - 004 / 007 / 008
NC90XX33PA-XXXXX	Kit, Tube Assy - 009 / 015 / 017
NC90XX43PA-XXXXX	Kit, Tube Assy - 023 / 033 / 014
NC90XX63PA-XXXXX	Kit, Tube Assy - 030 / 050 / 055
NC90XX83PA-XXXXX	Kit, Tube Assy - 048 / 080 / 100
High Pressure 3/8" Tu	ıbe Fittings
NC90XX24PA-XXXXX	Kit, Tube Assy - 004 / 007 / 008
NC90XX34PA-XXXXX	Kit, Tube Assy - 009 / 015 / 017
NC90XX44PA-XXXXX	Kit, Tube Assy - 023 / 033 / 014
NC90XX64PA-XXXXX	Kit, Tube Assy - 030 / 055
Fluran 1/4" Tubing Fitt	tings
NC90XX2FPA-XXXXX	Kit, Tube Assy - 004 / 007 / 008
NC90XX3FPA-XXXXX	Kit, Tube Assy - 009 / 015 / 017

NC9UAAZFPA-AAAAA	R_{II} , Tube ASSy - 004 / 007 / 006
NC90XX3FPA-XXXXX	Kit, Tube Assy - 009 / 015 / 017
NC90XX4FPA-XXXXX	Kit, Tube Assy - 023 / 033 / 014
Fluran 3/8" Tubing Fit	tings
NC90XX2GPA-XXXXX	Kit, Tube Assy - 004 / 007 / 008
NC90XX3GPA-XXXXX	Kit, Tube Assy - 009 / 015 / 017
NC90XX4GPA-XXXXX	Kit, Tube Assy - 023 / 033 / 014

Part Number	Description
ACCESSORIES ASSEM	IBLY
J63051	Access. Kit, PVC/VTN, .25N
J30257	Grease Kit
PARTS	
J60609	Strainer Assembly w/o Valve
J63002	Control Panel Cover (Clear)
J63004	Rain Hood
J63007	Switch, On-Off
J63013	Timer Assy
J63016	Gear Motor, 30RPM / 120V / 50-60Hz
J63017	Gear Motor, 30RPM / 240V / 50-60Hz
J63018	Gear Motor, 50RPM / 120V / 50-60Hz
J63019	Gear Motor, 50RPM / 240V / 50-60Hz
J63023	Housing Assy, 100% Fixed Rate
J63024	Housing Assy, 100% Timer
L1900500-000	Thumb Screw #6 (Control Pnl Cover)
NC110002-PVC	Coupling Nut, .25 NPT
NC110016-000	Sleeve, .25 OD Tube
NC170004-000	Label, Earth Ground
NC190000-000	Knob, #10 Thumb Screw (Head Mtg)
U8800712	Injection Valve Assembly
NC82XX3LP1-XXXXX	Roller Assembly For Size 2-6 Tubes
NC82XX8LP1-XXXXX	Roller Assembly For Size 8 Tube
TANK/WALL MOUNT	
J63047	15 Gal Tank Bracket
J63048	ITS Tank Adaptor Plate
J63049	Tank / Wall Mount with Shield
WATER METER PULSE	TIMER
U8800655	Control Mate, 115V
U8800715	Control Mate LT, 0.1 to 10 seconds
	·

XPV Series Parts

U0818343

J63006	Drive Motor, Variable Speed
J63053	Digital Control Board, Variable Speed
J63054	Pow er Supply, Variable Speed
J63071	Motor Control Board, Variable Speed
J63115	Fuse Kit, Variable Speed

Bracket, Mount



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

		Standard Agency Listings
		Model EIL EILsan (CII) factory
		All 60Hz X X applies applies
		All 50Hz
		Contact factory for alternate listings
PRIME PER	FORM	ANCE Selection Guide
MODELS:	015	= 15 gpd (2.34 lph) max pres.: 100 PSI (7 BAR)
	024	= 24 gpd (3.78 lph) max pres.: 100 PSI (7 BAR)
	030	= 30 gpd (4.72 lph) max pres.: 100 PSI (7 BAR)
	068	= 68 gpd (10.72 lph) max pres.: 60 PSI (4 BAR)
	100	= 100 gpd (15.76 lph) max pres.: 60 PSI (4 BAR)
ELECTRICAL:	XA	= 115V. 60 Hz
LLOTRICAL.	XB	= 113V, 50 Hz
	xc	= 230V, 60 Hz
LIQUID END	BAA	= PVC / CSPE / Ceramic
MATERIALS:	BBA	= PVC / Viton / Ceramic
Head, Fittings/		
Diaph., Seats/ Balls	5	
CONNECTION	6	= Tubing .38" PE BLK Suction / .38" PE BLK Discharge / .38" PE BLK Return
SIZES:	8	= Tubing .38" PVC Suction / .38" PE Discharge / .38" PVC Return
	7	= Tubing .50" PE BLK Suction / .50" PE BLK Discharge / .50" PE BLK Return
	9	= Tubing .50" PVC Suction / .50" PE Discharge / .50" PVC Return
SUFFIX CODES:	XXX	= Standard
	001	= Current Interrupter
	15T	= 15 gal tank w / bulkhead for vent, level w and, safety cap & fasteners
	35T	= 35 gal tank w/ bulkhead for vent and fasteners
		A complete model should look like "X024-XA-BBA9XXX"

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



PRIME PERFORMANCE KOPkit Selection Guide				
PRODUCT DESIGNATOR:	NATUU	= Chem-Tech Kopkit		
LIQUID END MATERIALS: Head, Diaph., Seats & Balls		= PVC / CSPE / Ceramic = PVC / Viton / Ceramic		
CONNECTION :	6 8 7 9	= Tubing .38" Suction / Discharge / Return = Tubing .38" Suction / Discharge / Return = Tubing .50" Suction / Discharge / Return = Tubing .50" Suction / Discharge / Return		



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.

Contact factory for applicable agency approvals.

Chem-Tech Series 100, 150, 200 Selection Guide MODELS: Series 100 Series 100 Saries 100 WODELS: Series 100 Saries 100 max press: 100 PSI (7 BAR) X007 = 3 gpd (1.047 (ph) max press: 100 PSI (7 BAR) X007 = 3 gpd (3.15 (ph) max press: 100 PSI (7 BAR) X003 = 3 gpd (3.15 (ph) max press: 100 PSI (7 BAR) X003 = 3 gpd (3.15 (ph) max press: 100 PSI (7 BAR) X009 = 10 gpd (1.5 fb) max press: 100 PSI (7 BAR) X210 = 10 gpd (1.5 fb) max press: 100 PSI (7 BAR) X210 = 10 gpd (1.5 fb) max press: 100 PSI (1 BAR) X220 = 20 gpd (3.15 (ph) max press: 150 PSI (10 BAR) X230 = 30 gpd (1.24 (ph) max press: 150 PSI (10 BAR) X240 = 40 gpd (1.5 fb) max press: 100 PSI (7 BAR) Z200 = 20 gpd (1.85 (ph) max press: 100 PSI (7 BAR) Z201 = 120 gpd (1.85 (ph) max press: 100 PSI (7 BAR) Z202 = 20 gpd (1.81 (ph) max press: 100 PSI (7 BAR) Z202 = 20 gpd (1.81 (ph) max press: 100 PSI (7 BAR) Z100 = 100 gpd (1.85 (ph) max press: 100 PSI (7 BAR) Z100 = 100 gpd (1.5 (ph) max press: 100 PSI (Contact factory for alternate listings	intertek in 9700150 9	tertek	appro
X003 = 3 gpd (1.04 fph) max pres:: 100 PSI (7 BAR) X015 = 15 gpd (2.34 ph) max pres:: 100 PSI (7 BAR) X016 = 15 gpd (2.34 ph) max pres:: 100 PSI (7 BAR) X017 = 7 gpd (2.34 ph) max pres:: 100 PSI (7 BAR) X018 = 68 gpd (10.72 ph) max pres:: 60 PSI (4 BAR) X010 = 100 gpd (1.5.16 ph) max pres:: 60 PSI (4 BAR) X100 = 100 gpd (1.5.16 ph) max pres:: 150 PSI (10 BAR) X211 = 11 gpd (2.34 ph) max pres:: 150 PSI (10 BAR) X212 = 20 gpd (3.51 ph) max pres:: 150 PSI (10 BAR) X220 = 20 gpd (3.51 ph) max pres:: 125 PSI (9 BAR) X240 = 40 gpd (5.31 ph) max pres:: 125 PSI (9 BAR) X240 = 40 gpd (1.5.16 ph) max pres:: 125 PSI (9 BAR) X240 = 40 gpd (1.5.16 ph) max pres:: 100 PSI (7 BAR) Z120 = 120 gpd (1.5.16 ph) max pres:: 100 PSI (7 BAR) Z120 = 120 gpd (1.5.16 ph) max pres:: 100 PSI (7 BAR) Z120 = 120 gpd (1.5.16 ph) max pres:: 100 PSI (7 BAR) Z120 = 120 gpd (1.5.16 ph) max pres:: 100 PSI (7 BAR) Z120 = 120 gpd (1.5.16 ph) max pres:: 100 PSI (7 BAR) Z120 = 120 gpd (1.5.16 ph) max pres:: 100 PSI (7 BAR) Z120	Chem-Te	ch Series 100, 150, 200 Selectio	on Guide			
X007 = 7 Gpd (1.00 [ph) max pres:: 100 PSI (7 BAR) X024 = 24 gpd (3.78 ph) max pres:: 100 PSI (7 BAR) X024 = 24 gpd (3.78 ph) max pres:: 100 PSI (7 BAR) Series 150 X068 = 68 gpd (10.72 [ph) max pres:: 60 PSI (4 BAR) X100 = 100 gpd (15.76 [ph) max pres:: 60 PSI (4 BAR) X210 = 10 gpd (15.76 [ph) max pres:: 150 PSI (10 BAR) X210 = 10 gpd (15.76 [ph) max pres:: 150 PSI (10 BAR) X220 = 20 gpd (3.15 [ph) max pres:: 150 PSI (10 BAR) X220 = 20 gpd (3.15 [ph) max pres:: 150 PSI (10 BAR) X220 = 20 gpd (3.16 [ph) max pres:: 150 PSI (10 BAR) X220 = 20 gpd (3.16 [ph) max pres:: 150 PSI (10 BAR) X220 = 00 gpd (12.6 [ph) max pres:: 100 PSI (7 BAR) X200 = 00 gpd (12.6 [ph) max pres:: 100 PSI (7 BAR) Z100 = 100 gpd (15.76 [ph) max pres:: 100 PSI (7 BAR) Z100 = 100 gpd (15.76 [ph) max pres:: 100 PSI (7 BAR) Z100 = 100 gpd (15.76 [ph) max pres:: 100 PSI (7 BAR) Z100 = 100 gpd (15.76 [ph) max pres:: 100 PSI (7 BAR) Z100 = 100 gpd (15.76 [ph) max pres:: 100 PSI (7 BAR) Z100 = 100 gpd (15.76 [ph) max pres:: 100 PSI (7 BAR)					-	
X015 = 15 gpd (2.34 iph) max press: 100 FSI (7 BAR) X030 = 30 gpd (4.72 lph) max press: 100 FSI (7 BAR) X030 = 30 gpd (4.72 lph) max press: 100 FSI (7 BAR) X010 = 10 gpd (1.5 r6 lph) max press: 100 FSI (7 BAR) X210 = 10 gpd (1.5 r6 lph) max press: 150 FSI (10 BAR) X210 = 10 gpd (1.5 r6 lph) max press: 150 FSI (10 BAR) X210 = 30 gpd (4.72 lph) max press: 150 FSI (10 BAR) X220 = 20 gpd (3.15 lph) max press: 125 FSI (9 BAR) X240 = 40 gpd (6.31 lph) max press: 125 FSI (9 BAR) X240 = 40 gpd (1.5 rbh) max press: 125 FSI (9 BAR) X260 = 60 gpd (9.46 lph) max press: 125 FSI (9 BAR) X280 = 80 gpd (12.6 lph) max press: 100 FSI (7 BAR) 2100 = 100 gpd (15.76 lph) max press: 100 FSI (7 BAR) 2120 = 120 gpd (18.19 lph) max press: 100 FSI (7 BAR) 2120 = 120 gpd (18.19 lph) max press: 100 FSI (7 BAR) 2120 = 120 gpd (18.19 lph) max press: 100 FSI (7 BAR) 2120 = 120 gpd (18.19 lph) max press: 100 FSI (7 BAR) 2120 = 120 gpd (18.19 lph) max press 2101 = 100 gpd (15.76 lph) max press 2102 = 110 gpd (15.76 l						
X02 = 24 grd (3.78 lph) max pres:: 100 FSI (7 BAR) Sories 150 X068 = 68 grd (10.72 lph) max pres:: 60 FSI (4 BAR) X100 = 100 gpd (15.76 lph) max pres:: 50 FSI (4 BAR) X101 = 10 gpd (15.76 lph) max pres:: 50 FSI (10 BAR) X210 = 10 gpd (15.76 lph) max pres:: 150 FSI (10 BAR) X210 = 20 gpd (3.15 lph) max pres:: 150 FSI (10 BAR) X220 = 20 gpd (3.15 lph) max pres:: 150 FSI (10 BAR) X220 = 20 gpd (3.15 lph) max pres:: 125 FSI (9 BAR) X240 = 40 gpd (6.31 lph) max pres:: 125 FSI (9 BAR) X240 = 40 gpd (15.9h) max pres:: 100 FSI (7 BAR) 2120 = 120 gpd (18.91 lph) max pres:: 100 FSI (7 BAR) 2120 = 120 gpd (18.91 lph) max pres:: 100 FSI (7 BAR) 2120 = 120 gpd (15.9F/ TEE VC = 230V, 50 Hz (not available in 2120) XC = 230V, 50 Hz (not available in 2120) XC = 230V, 50 Hz (not available in 2120) XC = 230V, 50 Hz (not available in 2120) XC = 230V, 50 Hz (not available in 2120) XC = 230V, 50 Hz (not available in 2120) XC = 230V, 50 Hz (not available in 2120)						
X030 = 30 gpd (4,72 jph) max press: 100 F81 (7 BAR) X068 = 68 gpd (10.72 ph) max press: 60 F81 (4 BAR) X100 = 10 gpd (15.76 jph) max press: 150 F81 (10 BAR) X210 = 10 gpd (15.76 jph) max press: 150 F81 (10 BAR) X210 = 10 gpd (15.76 jph) max press: 150 F81 (10 BAR) X210 = 20 gpd (14.72 jph) max press: 150 F81 (10 BAR) X210 = 20 gpd (15.76 jph) max press: 150 F81 (10 BAR) X220 = 20 gpd (14.72 jph) max press: 150 F81 (10 BAR) X220 = 20 gpd (14.72 jph) max press: 150 F81 (10 BAR) X220 = 20 gpd (14.72 jph) max press: 125 F81 (9 BAR) X280 = 80 gpd (16.9h) max press: 100 F81 (7 BAR) 2100 = 100 gpd (15.76 lph) max press: 100 F81 (7 BAR) 2120 = 115V. 60 Hz XB = 230V. 60 Hz, T.E.F.C. (X200's only) XL = 230V. 50 Hz (not available in 2120) XC = 230V. 50 Hz (not Zermic MATERIALS: ABB = Clear PVC / Viton / TFE XD = 115V. 60 Hz = 230V. 50 Hz (7 CSFE/ Ceramic MATERIALS: ABB = Clear PVC / TFE/Viton / Ceramic ABA = Clear PVC / TFE/Viton / Ceramic		X015 = 15 gpd (2.34 lph) max pres.: 100 F	PSI (7 BAR)			
Series 150 Series 150 X068 = 68 pdd (10.72 ph) max pres.: 60 PSI (4 BAR) X100 = 100 gdd (15.76 lph) max pres.: 150 PSI (10 BAR) X215 = 15 gdd (2.34 lph) max pres.: 150 PSI (10 BAR) X220 = 20 gpd (3.15 lph) max pres.: 150 PSI (10 BAR) X220 = 20 gpd (3.15 lph) max pres.: 150 PSI (10 BAR) X220 = 20 gpd (3.15 lph) max pres.: 125 PSI (9 BAR) X220 = 40 gpd (6.27 lph) max pres.: 125 PSI (9 BAR) X220 = 60 gpd (9.46 lph) max pres.: 125 PSI (9 BAR) X220 = 60 gpd (9.46 lph) max pres.: 100 PSI (7 BAR) Z100 = 100 gpd (15.76 lph) max pres.: 100 PSI (7 BAR) Z100 = 100 gpd (15.76 lph) max pres.: 100 PSI (7 BAR) Z100 = 100 gpd (15.76 lph) max pres.: 100 PSI (7 BAR) Z100 = 100 gpd (15.76 lph) max pres.: 100 PSI (7 BAR) Z100 = 100 gpd (15.76 lph) max pres.: 100 PSI (7 BAR) Z100 = 100 gpd (15.76 lph) max pres.: 100 PSI (7 BAR) Z100 = 100 gpd (15.76 lph) max pres.: 100 PSI (7 BAR) Z100 = 0 Gar PVC / (VSI (7 Carmic X10 = 1100 g.47 PC (2 SPE / Carmic ABB Clear PVC / TEV/Cormic						
X068 = 68 gpd (10.72 ph) max pres.: 60 PSI (4 BAR) X100 = 10 gpd (15.76 [ph) max pres.: 150 PSI (10 BAR) X210 = 10 gpd (15.16 [ph) max pres.: 150 PSI (10 BAR) X212 = 20 gpd (14.72 [ph) max pres.: 150 PSI (10 BAR) X220 = 20 gpd (14.72 [ph) max pres.: 150 PSI (10 BAR) X220 = 20 gpd (14.72 [ph) max pres.: 150 PSI (10 BAR) X230 = 00 gpd (19.76 [ph) max pres.: 125 PSI (9 BAR) X280 = 60 gpd (19.47 [ph) max pres.: 125 PSI (9 BAR) X280 = 60 gpd (16.91 [ph) max pres.: 125 PSI (9 BAR) X280 = 60 gpd (15.76 [ph) max pres.: 125 PSI (9 BAR) X280 = 00 gpd (15.76 [ph) max pres.: 100 PSI (7 BAR) 2100 = 100 gpd (15.76 [ph) max pres.: 80 PSI (6 BAR) Z100 = 100 gpd (15.76 [ph) max pres.: 80 PSI (6 BAR) X280 = 00 gpd (16.81 [ph) max pres.: 80 PSI (6 BAR) Z100 = 100 gpd (15.76 [ph) max pres.: 80 PSI (6 BAR) Z100 = 100 gpd (15.76 [ph) max pres.: 80 PSI (6 BAR) Z100 = 100 gpd (15.76 [ph) max pres.: 80 PSI (6 BAR) Z100 = 100 gpd (15.76 [ph) (7 CBPC) X0 = 115V. (50 PC) (CSPC / CSPC) (CSPC) (CS		X030 = 30 gpd (4.72 lph) max pres.: 100 F	PSI (7 BAR)			
X100 = 100 gpd (15.76 lph) max pres.: 150 PSI (4 BAR) X210 = 10 gpd (1.5.16 h) max pres.: 150 PSI (10 BAR) X220 = 20 gpd (3.15 ph) max pres.: 150 PSI (10 BAR) X230 = 20 gpd (3.15 ph) max pres.: 150 PSI (10 BAR) X230 = 20 gpd (15.76 lph) max pres.: 150 PSI (10 BAR) X230 = 20 gpd (15.76 lph) max pres.: 150 PSI (10 BAR) X230 = 20 gpd (15.76 lph) max pres.: 125 PSI (9 BAR) X240 = 40 gpd (16.36 lph) max pres.: 125 PSI (9 BAR) X260 = 60 gpd (9.46 lph) max pres.: 125 PSI (9 BAR) X280 = 50 gpd (15.76 lph) max pres.: 125 PSI (9 BAR) X280 = 60 gpd (9.46 lph) max pres.: 125 PSI (9 BAR) X280 = 50 gpd (15.76 lph) max pres.: 125 PSI (9 BAR) X280 = 100 gpd (15.76 lph) max pres.: 125 PSI (9 BAR) X210 = 120 gpd (15.76 lph) max pres.: 125 PSI (9 BAR) X210 = 120 gpd (15.76 lph) max pres.: 125 PSI (9 BAR) X210 = 120 gpd (15.76 lph) max pres.: 125 PSI (9 BAR) X210 = 120 gpd (15.76 lph) max pres.: 125 PSI (9 BAR) X210 = 150, 50 lph X120 = 150, 50 lph X120 = 120 gpd (15.76 lph)						
Series 200 10 grd (1.5 lph) max pres: 150 PSI (10 BAR) X210 = 15 grd (2.34 lph) max pres: 150 PSI (10 BAR) X221 = 20 grd (3.15 lph) max pres: 150 PSI (10 BAR) X220 = 20 grd (3.15 lph) max pres: 150 PSI (10 BAR) X200 = 00 grd (4.72 lph) max pres: 125 PSI (9 BAR) X200 = 00 grd (12.6 lph) max pres: 125 PSI (9 BAR) X200 = 00 grd (12.6 lph) max pres: 102 PSI (7 BAR) X2100 = 100 grd (15.76 lph) max pres: 100 PSI (7 BAR) Z100 = 100 grd (15.76 lph) max pres: 100 PSI (7 BAR) Z100 = 100 grd (15.76 lph) max pres: 100 PSI (7 BAR) Z100 = 100 grd (15.76 lph) max pres: 100 PSI (7 BAR) Z100 = 100 grd (15.76 lph) max pres: 100 PSI (7 BAR) Z100 = 100 grd (15.76 lph) max pres: 100 PSI (7 BAR) X00 = 115V, 50/60 Hz, T.E.F.C. (X200's only) X1 = 120 grd (15.76 lph) max pres: 100 PSI (7 BAR) X0 = 115V, 50/60 Hz, T.E.F.C. (X200's only) X1 = 230V, 50/60 Hz, T.E.F.C. (X200's only) X1 = 230V, 50/60 Hz, T.E.F.C. (X200's only) X1 = 230V, 50/60 Hz, T.E.F.C. (X200's only) XL = Clear PVC / VISPL / Ceramic </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
X215 = 10 gpd (1.5 lph) max pres:: 150 PSI (10 BAR) X220 = 20 gpd (3.15 lph) max pres:: 150 PSI (10 BAR) X220 = 20 gpd (3.15 lph) max pres:: 125 PSI (9 BAR) X20 = 40 gpd (6.3 lph) max pres:: 125 PSI (9 BAR) X20 = 00 gpd (16.76 lph) max pres:: 125 PSI (9 BAR) X200 = 00 gpd (15.76 lph) max pres:: 100 PSI (7 BAR) 2100 = 100 gpd (15.76 lph) max pres:: 100 PSI (7 BAR) 2100 = 100 gpd (15.76 lph) max pres:: 100 PSI (7 BAR) 2100 = 100 gpd (15.76 lph) max pres:: 100 PSI (7 BAR) 2100 = 100 gpd (15.76 lph) max pres:: 100 PSI (7 BAR) 2100 = 100 gpd (15.76 lph) max pres:: 100 PSI (7 BAR) 2100 = 100 gpd (15.76 lph) max pres:: 100 PSI (7 BAR) 2100 = 100 gpd (15.76 lph) max pres:: 100 PSI (7 BAR) 2100 = 100 gpd (15.76 lph) max pres:: 100 PSI (7 BAR) 2100 = 100 gpd (15.76 lph) max pres:: 100 PSI (7 BAR) 2101 = 230V, 5060 Hz, T.EF.C. (X200's only) XL = = 230V, 5060 Hz, T.EF.C (X200's only) XL = = 230V, 5060 Hz, T.EF.C (X200's only) XL = = Clear PVC/ Viton / Ceramic BAB = Clear PVC/ Viton / Ceramic BAB = Clear PVC/ TFE/Vito		X100 = 100 gpd (15.76 lph) max pres.: 60	PSI (4 BAR)			
X215 = 15 grd (2:34 [ph) max pres::150 PSI (10 BAR) X220 = 20 grd (3:15 [ph) max pres::150 PSI (10 BAR) X230 = 30 grd (4:72 [ph) max pres::125 PSI (9 BAR) X260 = 60 grd (2:46 [ph) max pres::125 PSI (9 BAR) X260 = 60 grd (2:6 [ph) max pres::125 PSI (9 BAR) X260 = 00 grd (12:6 [ph) max pres::100 PSI (7 BAR) 2100 = 100 grd (15:7 [ph) max pres::100 PSI (7 BAR) 2100 = 100 grd (15:7 [ph) max pres::100 PSI (7 BAR) 2100 = 100 grd (15:7 [ph) max pres::100 PSI (7 BAR) 2100 = 100 grd (15:7 [ph) max pres::100 PSI (7 BAR) 2100 = 100 grd (15:7 [ph) max pres::100 PSI (7 BAR) 2100 = 120 grd (18:9 [ph) max pres::100 PSI (7 BAR) 2100 = 120 grd (18:9 [ph) max pres::100 PSI (7 BAR) 2100 = 120 grd (18:9 [ph) max pres::100 PSI (7 BAR) 2100 = 120 grd (18:9 [ph) (max pres::100 PSI (7 BAR) 2100 = 120 grd (18:9 [ph) (max pres::100 PSI (7 BAR) 2100 = 120 grd (18:9 [ph) (max pres::100 PSI (7 BAR) 2100 = 120 grd (18:9 [ph) (max pres::100 PSI (7 BAR) 2100 EAC = 230V, 50 [ph (2 cramic) AB = Clear PVC / CSPE / TEE BBA = P						
x220 = 20 gipd (3.15 jph) max pres:: 125 RSI (9 BAR) x240 = 40 gpd (6.31 lph) max pres:: 125 RSI (9 BAR) x260 = 60 gpd (9.46 lph) max pres:: 125 RSI (9 BAR) x280 = 80 gpd (12.6 lph) max pres:: 100 RSI (7 BAR) 2120 = 102 gpd (15.76 lph) max pres:: 100 RSI (7 BAR) 2120 = 102 gpd (15.76 lph) max pres:: 100 RSI (7 BAR) 2120 = 102 gpd (15.76 lph) max pres:: 100 RSI (7 BAR) 2120 = 120 gpd (15.76 lph) max pres:: 100 RSI (7 BAR) 2120 = 230V, 50 Hz xCc = 230V, 50 Hz (not available in 2120) xCc = 230V, 50 Hz (not available in 2120) xCc = 230V, 50 Mc Hz, TLEF.C. (X200's only) xL = 230V, 50 Mc Hz, TLEF.C. (X200's only) xL = 230V, 50 Mc Hz, TLEF.C. (X200's only) xL = 230V, 50 Mc Hz, TLEF.C. (X200's only) xL = 230V, 50 Mc Hz, TLEF.C. (X200's only) xL = 230V, 50 Mc Hz, TLEF.C. (X200's only) xL = 230V, 50 Mc Hz, TLEF.C. (X200's only) xL = Clear PVC/ (SPE/ TFE BAB = Clear PVC / Mon / Ceramic BAB = Clear PVC / TEF/ Ceramic						
X230 = 30 gpd (4,72 lph) max pres:: 125 FSI (9 BAR) X240 = 40 gpd (6,31 lph) max pres:: 125 FSI (9 BAR) X260 = 60 gpd (12.6 lph) max pres:: 120 FSI (7 BAR) Z100 = 100 gpd (15.76 lph) max pres:: 100 FSI (7 BAR) Z101 = 120 gpd (18.91 lph) max pres:: 80 FSI (6 BAR) Z102 = 120 gpd (18.91 lph) max pres:: 80 FSI (6 BAR) Z103 = 230V, 50 Hz (not available in 2120) XC = 230V, 50 Hz (not available in 2120) XC = 230V, 50 Hz (not available in 2120) XC = 230V, 50 Hz (not available in 2120) XC = 230V, 50 Hz (not available in 2120) XC = 230V, 50 Hz (not available in 2120) XC = 230V, 50 Hz (not available in 2120) XC = 230V, 50 Hz (not available in 2120) XC = 230V, 50 Hz (not available in 2120) XC = 230V, 50 Hz (not available in 2120) XL = 230V, 50 Hz (not available in 2120) XL = 230V, 50 Hz (not available in 2120) XL = 230V, 50 Hz (not available in 2120) XL = 230V, 50 Hz (not available in 2120) XL = 230V. (S0 Hz (not available in 2120) AA = Clear PVC / Viton / TEE		X215 = 15 gpd (2.34 lph) max pres.: 150 F	PSI (10 BAR)			
X240 = 40 gipd (6.31 iph) max pres:: 125 PSI (9 BAR) X260 = 60 gpd (9.46 lph) max pres:: 100 PSI (7 BAR) 2100 = 100 gpd (15.76 iph) max pres:: 100 PSI (7 BAR) 2120 = 120 gpd (18.31 iph) max pres:: 100 PSI (7 BAR) 2120 = 120 gpd (18.31 iph) max pres:: 100 PSI (7 BAR) 2120 = 120 gpd (18.31 iph) max pres:: 100 PSI (7 BAR) 2120 = 120 gpd (18.31 iph) max pres:: 100 PSI (7 BAR) 2120 = 2100 pd (15.76 iph) max pres:: 100 PSI (7 BAR) 2120 = 2100 pd (18.31 iph) max pres:: 100 PSI (7 BAR) 2120 = 2100 pd (18.31 iph) max pres:: 100 PSI (7 BAR) 2120 = 2100 pd (15.76 iph) max pres:: 100 PSI (7 BAR) 2120 = 2100 pd (15.76 iph) max pres:: 100 PSI (7 BAR) 2120 = 2100 pd (15.76 iph) max pres:: 100 PSI (7 BAR) XC = 230V, 50 Hz XC = 230V, 50 Hz XL = 230V, 50 Hz Tittings/Sealia ACA Ge		X220 = 20 gpd (3.15 lph) max pres.: 150 F	PSI (10 BAR)			
X260 = 60 grd (9.46 [ph] max pres:: 100 FSI (7 BAR) X280 = 80 grd (12.66 [ph] max pres:: 100 FSI (7 BAR) 2100 = 100 grd (15.76 [ph] max pres:: 100 FSI (7 BAR) 2120 = 120 grd (18.91 [ph] max pres:: 80 PSI (6 BAR) 2120 = 120 grd (18.91 [ph] max pres:: 80 PSI (6 BAR) 2120 = 230V, 50 Hz (not available in 2120) XC = 230V, 50 Hz (not available in 2120) XC = 230V, 50 Hz (not available in 2120) XC = 230V, 50 Hz (not available in 2120) XC = 230V, 50 Hz (not available in 2120) XL = 230V, 50 Hz (not available in 2120) XL = 230V, 50 Hz (not available in 2120) XL = 230V, 50 Hz (not available in 2120) XL = 230V, 50 Hz (not available in 2120) XL = 230V, 50 Hz (not available in 2120) XL = 230V, 50 Hz (not retremain AAB = Clear PVC / CSPE / TFE ABA = Clear PVC / Viton / TEE BA = PVC / SEP / TFE BAB = PVC / SEP / TFE BAB = PVC / TE/CSPE / Ceramic DAA = PP / SSE / TFE		X230 = 30 gpd (4.72 lph) max pres.: 125 F	PSI (9 BAR)			
X280 = 80 ğrd (12.6 jph) max pres.: 100 PSI (7 BAR) 2100 = 100 gpd (15.76 jph) max pres.: 80 PSI (6 BAR) 2120 = 115V, 60 Hz XB = 230V, 50 Hz (not available in 2120) XC = 230V, 50 Hz (not available in 2120) XC = 230V, 50 Hz (not available in 2120) XC = 230V, 50 Hz (not available in 2120) XC = 230V, 50 Hz (not available in 2120) XC = 230V, 50 Hz, T.E.F.C. (X200's only) XL = 230V, 50 Hz, T.E.F.C. (X200's only) XL = 230V, 50 Hz, T.E.F.C. (X200's only) XL = 230V, 70 Hz (7 CSPE/ Ceramic ABA = Clear PVC / (SSPE / TEE Pump Head & AHA Titings/Seata ACA ACA = Clear PVC / TEE/ Ceramic BAB = PV (CSPE / Ceramic BAA = PV (C) THE/ CSPE / Ceramic BAB = PV (C) THE / Caramic BAA = PV (C / TEE / Ceramic BAB = PV		X240 = 40 gpd (6.31 lph) max pres.: 125 F	PSI (9 BAR)			
X280 = 80 gpd (12.6 lph) max pres: 100 FSI(7 BAR) 2100 = 100 gpd (13.57 lph) max pres: 100 FSI(7 BAR) 2120 = 120 gpd (18.91 lph) max pres: 180 PSI (6 BAR) 2120 = 120 gpd (18.91 lph) max pres: 180 PSI (6 BAR) 2120 = 130V, 50 Hz XB = 230V, 50 Hz XC = 230V, 50 Hz XD = 115V, 50/60 Hz, T.E.F.C. (X200's only) XL = 230V, 70/60 Hz, T.E.F.C. (X200's only) XL = 230V, 70/60 Hz, T.E.F.C. (X200's only) XL = 230V, 70/60 Hz, T.E.F.C. (X200's only) LIQUID ENC AAA ABB Clear PVC/ (SPE/ TEF ABB = Clear PVC / TE/CSPE / Ceramic BAA = PVC (SPE/ TEF BAA = PVC (Viton / Ceramic BAB = PVC (Viton / Ceramic DAB = PP / CSPE / TEF BBA = PVC / TEF / Ceramic		X260 = 60 gpd (9.46 lph) max pres.: 125 F	PSI (9 BAR)			
2120 = 120 gpd (18.91 lph) max pres.: 80 PSI (6 BAR) ELECTRICAL: XA = 115V, 60 Hz XB = 230V, 50 Hz (not available in 2120) XC = 230V, 50 Hz, T.E.F.C. (X200's only) XL = 230V, 500 Hz, T.E.F.C. (X200's only) XL = 230V, 500 Hz, T.E.F.C. (X200's only) XL = 230V, 5006 Hz, T.E.F.C. (X200's only) LIQUID END AAA = Clear PVC/ CSPE/Ceramic MATERIALS: AAB = Clear PVC / TEP/CSPE / Ceramic BA = PVC / TEP/CSPE / Ceramic BAA BAA = PVC / TEP/CSPE / Ceramic BAA BAA = PVC / TEP/CSPE / Ceramic DAA BAB = PVC / TEP/CSPE / TEE BBA BBA = PVC / TEP/CSPE / Ceramic DAA DAB = PV / Viton / Ceramic DAB DBB = PV / Viton / TEE BBA BCOE TTE DBA DBB = PV						
2120 = 120 gpd (18.91 lph) max pres.: 80 PSI (6 BAR) ELECTRICAL: XA = 115V, 60 Hz XB = 230V, 50 Hz (not available in 2120) XC = 230V, 50 Hz (not available in 2120) XC = 230V, 50 Hz (not available in 2120) XD = 115V, 50/60 Hz, T.E.F.C. (X200's only) XL = 230V, 50/60 Hz, T.E.F.C. (X200's only) XL = 230V, 50/60 Hz, T.E.F.C. (X200's only) LIQUID END AAA = Clear PVC/ CSPE/Ceramic MATERIALS: AAB = Clear PVC / Viton / Ceramic Hump Head & ABA = Clear PVC / TFE/CSPE / Ceramic BAA = PVC / TFE/CSPE / Ceramic DAA = PP / CSPE / TFE DBA = PP / Viton / Ceramic DAB = PV (V/ TFE / Ceramic (db)) GFA = Clear PVC / TFE / Ceramic (db) GFB = Clear PVC / TFE / Ceramic (db) GFB = Clear PVC / TFE / Ceramic (db) EFC = 316SS / TFE / 316SS (db) <tr< td=""><td></td><td>2100 = 100 gpd (15.76 lph) max pres.: 10</td><td>0 PSI (7 BÁR)</td><td></td><td></td><td></td></tr<>		2100 = 100 gpd (15.76 lph) max pres.: 10	0 PSI (7 BÁR)			
ELECTRICAL: XA = 115V, 60 Hz XB = 230V, 50 Hz (not available in 2120) XC = 230V, 60 Hz XD = 115V, 50/60 Hz, T.E.F.C. (X200's only) XL = 230V, 50/60 Hz, T.E.F.C. (X200's only) XL = Clear PVC/ (SPE/TFE BAB = PVC/ Viton / TEE BBA = PVC/ Viton / TEE BBA = PVC / Viton / TEE BBA = PVC / TEE / Ceramic DAA = PP / SPE / Ceramic DAB = PP / Viton / TEE GFA Clear PVC / TEE / Ceramic<						
XC = 230V, 50 Hz (not available in 2120) XC = 230V, 60 Hz XD = 115V, 50/60 Hz, T.E.F.C. (X200's only) XL = 230V, 50/60 Hz, T.E.F.C. (X200's only) XL = Clear PVC / Viton / Ceramic BAB = DVC / Viton / Ceramic DAA = PV / CSRE / Ceramic DAA = PV / Coreamic DBB = PV / Viton / Ceramic DBA = PV / Viton / Ceramic DBB = PV / Viton / TEF BBB = Cear PVC						
XC = 230V, 60 Hz' XD = 115V, 50/60 Hz, T.E.F.C. (X200's only) XL = 230V, 50/60 Hz, T.E.F.C. (X200's only) XL = 230V, 50/60 Hz, T.E.F.C. (X200's only) IQUID END AAA = Clear PVC / CSPE / TFE Amp Head & ABA = Clear PVC / Viton / Ceramic ABB = Clear PVC / Viton / Ceramic ABB = Clear PVC / TFE/CSPE / Ceramic BAA = PVC / VIton / Ceramic BAA = PVC / VIton / Ceramic BAB = PVC / VIton / Ceramic BAB = PVC / VIton / Ceramic BAB = PVC / VIton / Ceramic DAA = PP / CSPE / Ceramic DAA = PP / CSPE / Ceramic DAA = PP / CSPE / Ceramic DAA = PP / VIton / TFE DBA = PV / VIton / TFE SE C = Tubing .34" PVC Suction / .50" PE Discharge SZ	ELECTRICAL:					
XD = 115V, 50/60 Hz, T.E.F.C. (X200's only) XL = 230V, 50/60 Hz, T.E.F.C. (X200's only) LIQUID END AAA = Clear PVC/CSPE/Cramic AAB = Clear PVC/Viton / Ceramic ABA = Clear PVC/Viton / Ceramic ABB = Clear PVC/Viton / Ceramic ABA = Clear PVC/Viton / Ceramic AAB = Clear PVC/Viton / Ceramic BAA = PVC/Viton / TEFC BAA = PVC/Viton / Ceramic BAA = PVC/Viton / TEFE BBA = PVC/Viton / TEFE DAA = PP//SBFE/Ceramic DAB = PVC/VTEF/Ceramic DBB = PP/Viton / TEFE BBA = Cear PVC/TEF/CEramic DBA = PP/Viton / TEFE DBA = PP/Viton / TEFE DBA = PP/Viton / TEFE SIZES:						
XL = 230V, 50/60 Hz, T.E.F.C. (X200's only)' LIQUID END WATERIALS: AAA = Clear PVC/CSPE/Ceramic AAB = Clear PVC/Viton / TFE Pump Head & ABA = Clear PVC/Viton / TFE Supp Head & ABA = Clear PVC/Viton / TFE & ABA = Clear PVC/TE/CSPE/Ceramic ABB = Clear PVC/TFE/CSPE/Ceramic BAA = PVC/CSPE/Ceramic BAA = PVC/Viton / Ceramic BAB = PVC/Viton / Ceramic BBA = PVC/Viton / Ceramic BBA = PVC/Viton / Ceramic DAA = PP/CSDE/Ceramic DAA = PVC/TFE/CSDE/Ceramic DAA = PVC/Viton / Ceramic DAA = PVC/TFE/CSDE/Ceramic DAA = PV/C/TFE/CSDE/Ceramic DAB = PV/C/TFE/CSDE/Ceramic DAB = PV/C/TFE/CSDE/Ceramic DAB = PV						
IQUID FND AAA = Clear PVC / CSPE / TFE AAB = Clear PVC / Viton / Ceramic Tittings/Salls ABB = Clear PVC / Viton / TFE & AB = Clear PVC / Viton / TFE & ACA = Clear PVC / Viton / TFE & ACA = Clear PVC / TFE/CSPE / Ceramic BAA = PVC / CSPE / Ceramic BAA = PVC / CSPE / Ceramic BAA = PVC / Viton / TFE BBA = PVC / Viton / Ceramic BAB = PVC / Viton / TFE BBA = PVC / Viton / Ceramic DAA = PP / CSPE / TFE BBA = PVC / Viton / Ceramic DAA = PP / CSPE / TFE DBA = PP / Viton / TFE GFA = Clear PVC / TFE / Ceramic (dbl) GFB = Clear PVC / TFE / Ceramic (dbl) GFB = Clear PVC / Suction / .50" PE Discharge SIZES: = Tubing .44" PVC Suction / .50" PE Discharge S = Tubing .38" PVC Suction / .50" PE BLK Discharge						
MATERIALS: AAB = Clear PVC/CSPE/TFE ABA = Clear PVC/Viton / Ceramic ABA = Clear PVC/Viton / TFE ACA = Clear PVC/TFE/Viton / Ceramic AHA = Clear PVC/TFE/CERE BAA = PVC/CSPE/CERE BAB = PVC/CSPE/CERE BBA = PVC/Viton / Ceramic BAB = PVC/Viton / Ceramic BAB = PVC/Viton / Ceramic DAA = PP/CSPE/Ceramic DAA = PP/CSPE/Ceramic DAA = PP/CSPE/Ceramic DAA = PP/CSPE/Ceramic DAB = PP/Viton / Ceramic DAB = PP/Viton / Ceramic DBB = PP/Viton / Ceramic SUFFIX XXX = Standard Ot1 = Current Interrupter SOUFFIX SUFFIX XXX = Standard Ot1 = Current Interrupter SOUF Enve Function Degas Valve ITS = 15 gal ITS Tank System Not available in SS. Adder price is per head.		XL = 230V, 50/60 Hz, T.E.F.C. (X200's o	nly)			
MATERIALS: AAB = Clear PVC / Viton / Ceramic Amp Head & ABA = Clear PVC / Viton / Ceramic ABB = Clear PVC / Viton / TFE AABA AC-rings/Balls ACA = Clear PVC / Viton / Ceramic AHA = Clear PVC / Viton / Ceramic BAA = PVC / Vitor / TFE/CSPE / Ceramic BAA = PVC / Viton / Ceramic BAB = PVC / Viton / Ceramic BBB = PVC / Viton / Ceramic DAA = PP / SCPE / TFE BBA = PVC / Viton / Ceramic DAA = PP / SCPE / TFE DBA = PP / Viton / Ceramic DAA = PP / SCPE / TFE DBA = PP / Viton / Ceramic DBB = PP / Viton / Ceramic DBB = PP / Viton / Ceramic DBB = PP / Viton / TFE DBB = PP / Viton / Ceramic DBB = PP / Viton / Ceramic DBB = Clear PVC / TFE / Ceramic BBB = Clear PVC / TFE / Ceramic BBB = Clear PVC / TFE / Section / .50° PE Discharge Sconnection A = Tubing .38° PC Suction / .50° PE BLK Discharge	IQUID END	AAA = Clear PVC / CSPE / Ceramic				
Bump Head & ABA = Clear PVC / Viton / Ceramic ABB = Clear PVC / Viton / TFE & O-rings/Balls ACA = Clear PVC / TFE/VIton / Ceramic AHA = Clear PVC / TFE/CSPE / Ceramic BAA = PVC / Viton / TFE BBA = PVC / Viton / Ceramic BAB = PVC / Viton / Ceramic BBB = PVC / Viton / Ceramic DAA = PP / CSPE / Ceramic DAB = PP / Viton / TFE BBA = PVC / Viton / Ceramic DAB = PP / Viton / TFE DBA = PP / Viton / TFE GFA = Clear PVC / TFE / Ceramic (dbl) GFB = Clear PVC / TFE / TFE (dbl) EFC = 316SS / TFE / 316SS (dbl) CONNECTION A = Tubing .44" PVC Suction / .50" PE Discharge SIZES: C = Tubing .38" PVC Suction / .38" PE Discharge SIZES: S = Tubing .38" PVC Suction / .38" PE BLK Discharge SUFFIX XXX = Standard CODES: O						
Titings/Seats ABB = Clear PVC / Viton / TFE & O-rings/Balls ACA = Clear PVC / TFE/CSPE / Ceramic BAA = PVC / CSPE / Ceramic BAA = PVC / Viton / Ceramic BBA = PVC / Viton / Ceramic BBB = PVC / Viton / TFE BBA = PVC / Viton / Ceramic DAA = PP / CSPE / TFE DBA = PP / Viton / TFE GFA = Clear PVC / TFE / Ceramic (dbl) GFB = Clear PVC / TFE / TFE (dbl) EFC = 316SS / TFE / 316SS (dbl) CONNECTION A = Tubing .44" PVC Suction / .50" PE Discharge SIZES: C = Tubing .38" PVC Suction / .38" PE Discharge SIZES: S = Tubing .38" PVC Suction / .38" PE BLK Discharge SUFFIX XXX = Standard CODES: O01 = Current Interrupter S00" = Five Function Valve 520" S20" = Five Function Degas Valve ITS <t< td=""><td>Pump Head &</td><td>ABA = Clear PVC / Viton / Ceramic</td><td></td><td></td><td></td><td></td></t<>	Pump Head &	ABA = Clear PVC / Viton / Ceramic				
& O-rings/Balls ACA = Clear PVC / TFE/Viton / Ceramic AHA = Clear PVC / TFE/CSPE / Ceramic BAA = PVC / CSPE / Ceramic BAB = PVC / Viton / Ceramic BBB = PVC / Viton / Ceramic BBB = PVC / Viton / TFE BBA = PVC / Viton / TFE BBA = PVC / TFE/CSPE / Ceramic DAA = PP / CSPE / TFE DBA = PP / Viton / Ceramic DBB = PP / Viton / TFE GFA = Clear PVC / TFE / Ceramic (dbl) GFB = Clear PVC / TFE / TFE (dbl) EFC = 316SS / TFE / 316SS (dbl) CONNECTION A = Tubing .44" PVC Suction / .50" PE Discharge SIZES: C = Tubing .38" PVC Suction / .38" PE Discharge SIZES: C = Tubing .38" PVC Suction / .38" PE BLK Discharge S = Tubing .38" PVC Suction / .38" PE BLK Discharge S = Tubing .38" PVC Suction / .38" PE BLK Discharge S = Uring 1.44" PVC Suction / .38" PE BLK Discharge SUFFIX XXX = Standard CODES: 001 = Current Interrupter S00* = Five Functio						
AHA = Clear PVC / TFE/CSPE / Ceramic BAA = PVC / CSPE / Ceramic BAB = PVC / Viton / Ceramic BBB = PVC / Viton / Creamic BBB = PVC / Viton / TFE BHA = PVC / TFE/CSPE / Ceramic DAA = PP / CSPE / Ceramic DAB = PP / Viton / CFE DBB = PP / Viton / TFE GFA = Clear PVC / TFE / Ceramic (dbl) GFB = Clear PVC / TFE / Ceramic (dbl) GFB = Clear PVC / TFE / Ceramic (dbl) GFB = Clear PVC / TFE / Ceramic (dbl) CONNECTION A = Tubing .44" PVC Suction / .50" PE Discharge F = Tubing .38" PVC Suction / .38" PE Discharge F = Tubing .34" PVC Suction / .38" PE Discharge SUFFIX XXX = Standard CODES: 001 = Current Interrupter S00* = Five Function Valve S20* = Five Function Valve S20* = Five Function Degas Valve ITS = 15 gal ITS Tank System Not available in SS. Adder price is per head.						
BAA = PVC/CSPE/Ceramic BAB = PVC/CSPE/TFE BBA = PVC/Viton / Ceramic BBB = PVC/Viton / TFE BHA = PVC/SPE/Ceramic DAA = PP/CSPE/Ceramic DAB = PP/CSPE/TFE DBA = PP/Viton / Ceramic DBB = PP/Viton / TFE DBB = PP/Viton / TFE GFA = Clear PVC / TFE / TFE (dbl) EFC = 316SS / TFE / 316SS (dbl) CONNECTION A = Tubing .44" PVC Suction / .50" PE Discharge SIZES: F = Tubing .38" PVC Suction / .38" PE Discharge SIZES: = Tubing .38" PVC Suction / .38" PE Discharge SUFFIX XXX = Standard CODES: 001 = Current Interrupter S00* = Five Function Valve S20* = Five Function Valve S20* = Five Function Degas Valve ITS = 15 gal ITS Tank System Not available in SS. Adder price is per head.	J					
BAB = PVC / CSPE / TFE BBA = PVC / Viton / Ceramic BBB = PVC / Viton / TFE BHA = PVC / TFE/CSPE / Ceramic DAA = PP / CSPE / Ceramic DAB = PP / CSPE / Ceramic DBB = PP / Viton / Ceramic (dbl) GFA = Clear PVC / TFE / Ceramic (dbl) GFB = Clear PVC / TFE / TFE (dbl) EFC = 316SS / TFE / 316SS (dbl) CONNECTION A = Tubing .44" PVC Suction / .50" PE Discharge SIZES: C = Tubing .44" PVC Suction / .38" PE Discharge F = Tubing .38" PVC Suction / .38" PE BLK Discharge SUEFIX XXX = Standard CODES: 001 = Current Interrupter S00* = Five Function Valve 520" S20* = Five Function Degas Valve ITS = 15 gal ITS Tank System Not available in SS. Adder price is per head. E						
BBA = PVC / Viton / Ceramic BBB = PVC / Viton / TFE BHA = PVC / TFE/CSPE / Ceramic DAA = PP / CSPE / Ceramic DAB = PP / Viton / Ceramic DBA = PP / Viton / Ceramic DBB = PP / Viton / Ceramic DBB = PP / Viton / Ceramic (dbl) GFA = Clear PVC / TFE / Ceramic (dbl) GFB = Clear PVC / TFE / TFE (dbl) EFC = 316SS / TFE / 316SS (dbl) CONNECTION A = Tubing .44" PVC Suction / .50" PE Discharge GF = Tubing .38" PVC Suction / .50" PE Discharge F = Tubing .38" PVC Suction / .38" PE Discharge F = Tubing .38" PVC Suction / .38" PE Discharge SUEFEX XXX = Standard CODES: 001 = Current Interrupter S00* = Five Function Valve 520* = Tive Function Degas Valve ITS = 15 gal ITS Tank System TNot available in SS. Adder price is per head.						
BBB = PVC / Viton / TFE BHA = PVC / TFE/CSPE / Ceramic DAA = PP / CSPE / Ceramic DAB = PP / CSPE / TFE DBA = PP / Viton / Ceramic DBB = PP / Viton / TFE GFA = Clear PVC / TFE / Ceramic (dbl) GFB = Clear PVC / TFE / Ceramic (dbl) GFB = Clear PVC / TFE / TFE (dbl) EFC = 316SS / TFE / 316SS (dbl) CONNECTION A = Tubing .44" PVC Suction / .50" PE Discharge SIZES: F F = Tubing .44" PVC Suction / .38" PE Discharge SIZES: F F = Tubing .38" PVC Suction / .38" PE BLK Discharge S = Tubing .38" PVC Suction / .38" PE BLK Discharge S = Tubing .38" PVC Suction / .25" FNPT Discharge SUFFIX XXX = Standard CODES: 001 = Current Interrupter 500* = Five Function Valve 520* = Five Function Degas Valve ITS = 15 gal ITS Tank System TNot available in SS. Adder price is per head.						
BHA = PVC / TFE/CSPE / Ceramic DAA = PP / CSPE / Ceramic DAB = PP / CSPE / TFE DBA = PP / Viton / Ceramic DBB = PP / Viton / Ceramic (dbl) GFA = Clear PVC / TFE / Ceramic (dbl) GFB = Clear PVC / TFE / TFE (dbl) EFC = 316SS / TFE / 316SS (dbl) CONNECTION A = Tubing .44" PVC Suction / .50" PE Discharge SIZES: C = Tubing .38" PVC Suction / .38" PE Discharge F = Tubing .38" PVC Suction / .30" PE BLK Discharge SIZES: = Tubing .38" PVC Suction / .38" PE BLK Discharge SUFFIX XXX = Standard CODES: 001 = Current Interrupter 500* = Five Function Valve 520* 520* = Five Function Degas Valve ITS = 15 gal ITS Tank System Not available in SS. Adder price is per head. Adder price is per head.						
DAA = PP / CSPE / Ceramic DAB = PP / CSPE / TFE DBA = PP / Viton / Ceramic DBB = PP / Viton / TFE GFA = Clear PVC / TFE / Ceramic (dbl) GFB = Clear PVC / TFE / TFE (dbl) EFC = 316SS / TFE / 316SS (dbl) CONNECTION A = Tubing .44" PVC Suction / .50" PE Discharge C = Tubing .38" PVC Suction / .38" PE Discharge F = Tubing .34" PVC Suction / .50" PE BLK Discharge SIZES: C = Tubing .38" PVC Suction / .38" PE Discharge SV = .25" FNPT Suction / .50" PE BLK Discharge X w/ 316 = .25" FNPT Suction / .25" FNPT Discharge SUFFIX XXX = Standard CODES: 001 = Current Interrupter 500* = Five Function Valve 520* 520* = Five Function Degas Valve ITS ITS = 15 gal ITS Tank System Not available in SS. Adder price is per head. E						
DAB = PP / CSPE / TFE DBA = PP / Viton / Ceramic DBB = PP / Viton / TFE GFA = Clear PVC / TFE / Ceramic (dbl) GFB = Clear PVC / TFE / TFE (dbl) EFC = 316SS / TFE / 316SS (dbl) CONNECTION A = Tubing .44" PVC Suction / .50" PE Discharge SIZES: C = Tubing .44" PVC Suction / .38" PE Discharge F = Tubing .44" PVC Suction / .38" PE Discharge SIZES: F = Tubing .44" PVC Suction / .38" PE Discharge S = Tubing .44" PVC Suction / .38" PE Discharge S = Tubing .38" PVC Suction / .38" PE Discharge S = Tubing .38" PVC Suction / .38" PE BLK Discharge S = Tubing .38" PVC Suction / .38" PE BLK Discharge S = Tubing .38" PVC Suction / .25" FNPT Discharge SUFFIX XXX = Standard CODES: 001 = Current Interrupter 500* = Five Function Valve 520* 520* = Five Function Degas Valve ITS ITS = 15 gal ITS Tank System Not available in SS. Adder price is per head. E						
DBA = PP / Viton / Ceramic DBB = PP / Viton / TFE GFA = Clear PVC / TFE / Ceramic (dbl) GFB = Clear PVC / TFE / TFE (dbl) EFC = 316SS / TFE / 316SS (dbl) CONNECTION A = Tubing .44" PVC Suction / .50" PE Discharge C = Tubing .38" PVC Suction / .38" PE Discharge F = Tubing .44" PVC Suction / .50" PE BLK Discharge S = Tubing .38" PVC Suction / .38" PE BLK Discharge X w/316 = .25" FNPT Suction / .25" FNPT Discharge SUFFIX XXX = Standard Standard CODES: 001 = Current Interrupter Stot S0* = Five Function Valve Stot Five Function Degas Valve ITS = 15 gal ITS Tank System Not available in SS. Adder price is per head.						
DBB = PP / Viton / TFE GFA = Clear PVC / TFE / Ceramic (dbl) GFB = Clear PVC / TFE / TFE (dbl) EFC = 316SS / TFE / 316SS (dbl) CONNECTION A = Tubing .44" PVC Suction / .50" PE Discharge C = Tubing .44" PVC Suction / .38" PE Discharge F = Tubing .38" PVC Suction / .50" PE BLK Discharge S = Tubing .38" PVC Suction / .50" PE BLK Discharge S = Tubing .38" PVC Suction / .38" PE BLK Discharge S = Tubing .38" PVC Suction / .38" PE BLK Discharge S = Tubing .38" PVC Suction / .25" FNPT Discharge SUFFIX XXX = Standard CODES: 001 = Current Interrupter 500* = Five Function Valve 520* = Five Function Degas Valve ITS = 15 gal ITS Tank System Not available in SS. Adder price is per head.						
GFA = Clear PVC / TFE / Ceramic (dbl) GFB = Clear PVC / TFE / TFE (dbl) EFC = 316SS / TFE / 316SS (dbl) CONNECTION A = Tubing .44" PVC Suction / .50" PE Discharge C = Tubing .38" PVC Suction / .38" PE Discharge F = Tubing .34" PVC Suction / .50" PE BLK Discharge S = Tubing .38" PVC Suction / .38" PE BLK Discharge S = Tubing .38" PVC Suction / .38" PE BLK Discharge S = Tubing .38" PVC Suction / .38" PE BLK Discharge S = Tubing .38" PVC Suction / .38" PE BLK Discharge S = Tubing .38" PVC Suction / .25" FNPT Discharge SUFFIX XXX = Standard CODES: 001 = Current Interrupter 500* = Five Function Valve 520* = Five Function Degas Valve ITS = 15 gal ITS Tank System Not available in SS. Adder price is per head.						
GFB = Clear PVC / TFE / TFE (dbl) EFC = 316SS / TFE / 316SS (dbl) CONNECTION A = Tubing .44" PVC Suction / .50" PE Discharge C = Tubing .38" PVC Suction / .38" PE Discharge F = Tubing .34" PVC Suction / .50" PE BLK Discharge S = Tubing .38" PVC Suction / .50" PE BLK Discharge S = Tubing .38" PVC Suction / .38" PE BLK Discharge X w/ 316 = .25" FNPT Suction / .25" FNPT Discharge SUFFIX XXX = Standard CODES: 001 = Current Interrupter 500* = Five Function Valve 520* = Five Function Degas Valve ITS = 15 gal ITS Tank System Not available in SS. Adder price is per head.						
EFC = 316SS / TFE / 316SS (dbl) CONNECTION A = Tubing .44" PVC Suction / .50" PE Discharge C = Tubing .44" PVC Suction / .38" PE Discharge F = Tubing .44" PVC Suction / .50" PE BLK Discharge S = Tubing .38" PVC Suction / .38" PE BLK Discharge S = Tubing .38" PVC Suction / .38" PE BLK Discharge S = Tubing .38" PVC Suction / .38" PE BLK Discharge S = Tubing .38" PVC Suction / .25" FNPT Discharge SUFFIX XXX = Standard CODES: 001 = Current Interrupter 500* = Five Function Valve 520* 520* = Five Function Degas Valve ITS ITS = 15 gal ITS Tank System Not available in SS. Adder price is per head. E		- ()				
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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 SUFFIX XXX = Standard CODES: 001 = Current Interrupter 500* = Five Function Valve 520* = Five Function Degas Valve ITS = 15 gal ITS Tank System Not available in SS. Adder price is per head.		- ()				
F = Tubing .44" PVC Suction / .50" PE BLK Discharge S = Tubing .38" PVC Suction / .38" PE BLK Discharge X w/ 316 = .25" FNPT Suction / .25" FNPT Discharge SUFFIX XXX = Standard CODES: 001 = Current Interrupter 500* = Five Function Valve 520* = Five Function Degas Valve ITS = 15 gal ITS Tank System Not available in SS. Adder price is per head.						
S = Tubing .38" PVC Suction / .38" PE BLK Discharge X w/316 = .25" FNPT Suction / .25" FNPT Discharge UUFFIX XXX = Standard :ODES: 001 = Current Interrupter 500* = Five Function Valve 520* = Five Function Degas Valve ITS = 15 gal ITS Tank System Not available in SS. Adder price is per head.	125:					
X w/316 = .25" FNPT Suction / .25" FNPT Discharge SUFFIX XXX = Standard CODES: 001 = Current Interrupter 500* = Five Function Valve 520* = Five Function Degas Valve ITS = 15 gal ITS Tank System Not available in SS. Adder price is per head.			SLK Discharge			
SUFFIX XXX = Standard CODES: 001 = Current Interrupter 500* = Five Function Valve 520* = Five Function Degas Valve ITS = 15 gal ITS Tank System Not available in SS. Adder price is per head.			SLK Discharge			
CODES: 001 = Current Interrupter 500* = Five Function Valve 520* = Five Function Degas Valve ITS = 15 gal ITS Tank System Not available in SS. Adder price is per head.		X W/ 316 = .25" FNPT Suction / .25" FNPT Disc	narge			
CODES: 001 = Current Interrupter 500* = Five Function Valve 520* = Five Function Degas Valve ITS = 15 gal ITS Tank System Not available in SS. Adder price is per head.	UFFIX	XXX = Standard				
500* = Five Function Valve 520* = Five Function Degas Valve ITS = 15 gal ITS Tank System Not available in SS. Adder price is per head.						
520* = Five Function Degas Valve ITS = 15 gal ITS Tank System Not available in SS. Adder price is per head.						
ITS = 15 gal ITS Tank System Not available in SS. Adder price is per head.						
Not available in SS. Adder price is per head.						
A completed model number should look like "X015-XA-BAAAXXX"	Not available	in SS. Adder price is per head.				
		A completed model number s	hould look like "X015-XA-BAAAXXX"			



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.

emember that liquid end adders must doubled for duplex pump models. Standard Agency Listings Model ETL ETL All 60Hz X 100-150 50Hz Image: Contact factory for alternate listings Contact factory for alternate listings Image: Contact factory for alternate listings Contact factory for alternate listings Image: Contact factory for alternate listings Chem-Tech Series 100D Duplex Pump Image: Contact factory for alternate listings It4 = 4.0 gpd (0.63 lph) / 4.0 gpd (0.63 lph) max pres.: 50 PSI (3.5 BAR) It5 = 5.0 gpd (0.79 lph) / 4.0 gpd (0.63 lph) max pres.: 50 PSI (3.5 BAR) It5 = 5.0 gpd (0.79 lph) / 5.0 gpd (0.79 lph) max pres.: 50 PSI (5.25 BAR) It5 = 5.0 gpd (1.03 lph) / 6.5 gpd (1.03 lph) max pres.: 75 PSI (5.25 BAR) It5 = 7.5 gpd (1.18 lph) / 7.5 gpd (1.18 lph) max pres.: 75 PSI (5.25 BAR) It5 = 7.5 gpd (1.18 lph) / 7.5 gpd (1.26 lph) max pres.: 75 PSI (5.25 BAR) It64 = 12.0 gpd (1.89 lph) / 8.0 gpd (1.26 lph) max pres.: 50 PSI (4.2 BAR) It65 = 12.0 gpd (1.89 lph) / 8.0 gpd (1.43 lph) max pres.: 60 PSI (4.2 BAR)
Model ETL ETLsan All 60Hz X X 100-150 50Hz
All 60Hz X X 100-150 50Hz
100-130 30H2 200 50Hz applicable agency approvals. Contact factory for alternate listings Contact factory for alternate listings Chem-Tech Series 100D and 150D Duplex Selection Guide 144 = 4.0 gpd (0.63 lph) / 4.0 gpd (0.63 lph) max pres.: 50 PSI (3.5 BAR) 145 = 5.0 gpd (0.79 lph) / 4.0 gpd (0.63 lph) max pres.: 50 PSI (3.5 BAR) 155 = 5.0 gpd (0.79 lph) / 5.0 gpd (0.79 lph) max pres.: 50 PSI (3.5 BAR) 244 = 6.5 gpd (1.03 lph) / 6.5 gpd (1.03 lph) max pres.: 50 PSI (5.25 BAR) 245 = 7.5 gpd (1.18 lph) / 6.5 gpd (1.03 lph) max pres.: 75 PSI (5.25 BAR) 255 = 7.5 gpd (1.18 lph) / 7.5 gpd (1.18 lph) max pres.: 75 PSI (5.25 BAR) 264 = 12.0 gpd (1.89 lph) / 8.0 gpd (1.26 lph) max pres.: 60 PSI (4.2 BAR)
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265 = 12.0 gpd (1.89 lph) / 9.0 gpd (1.43 lph) max pres.: 60 PSI (4.2 BAR) 344 = 14.0 gpd (2.21 lph) / 14.0 gpd (2.21 lph) max pres.: 75 PSI (5.25 BAR)
345 = 18.0 gpd (2.84 lph) / 14.0 gpd (2.21 lph) max pres.: 75 PSI (5.25 BAR)
355 = 18.0 gpd (2.84 lph) / 18.0 gpd (2.84 lph) max pres.: 75 PSI (5.25 BAR)
364 = 25.0 gpd (3.94 lph) / 15.0 gpd (2.37 lph) max pres.: 60 PSI (4.2 BAR)
365 = 25.0 gpd (3.94 lph) / 19.0 gpd (3.0 lph) max pres.: 60 PSI (4.2 BAR)
444 = 30.0 gpd (4.72 lph) / 30.0 gpd (4.72 lph) max pres.: 75 PSI (5.25 BAR)
445 = 30.0 gpd (4.72 lph) / 33.0 gpd (5.20 lph) max pres.: 75 PSI (5.25 BAR) Series 150D
455 = 33.0 gpd (5.20 lph) / 33.0 gpd (5.20 lph) max pres.: 75 PSI (5.25 BAR)
464 = 69.0 gpd (10.88 lph) / 32.0 gpd (5.05 lph) max pres.: 60 PSI (4.2 BAR)
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)
LECTRICAL: XA = 115V, 60 Hz
XB = 230V, 50 Hz
XC = 230V, 60 Hz
IQUID END AAA = Clear PVC / CSPE / Ceramic
MATERIALS: AAB = Clear PVC / CSPE / TFE
Pump Head & ABA = Clear PVC / Viton / Ceramic
Fittings/Seats ABB = Clear PVC / Viton / TFE
& O-rings/Balls ACA = Clear PVC / TFE/Viton / Ceramic
AHA = Clear PVC / TFE/CSPE / Ceramic
BAA = PVC / CSPE / Ceramic BAB = PVC / CSPE / TFE
BBA = PVC / Viton / Ceramic
BBB = PVC / Viton / TFE
BHA = PVC / TFE/CSPE / Ceramic
DAA = PP / CSPE / Ceramic
DAB = PP/CSPE/TFE
DBA = PP / Viton / Ceramic DBB = PP / Viton / TFE
GFA = Clear PVC / TFE / Ceramic (dbl)
GFB = Clear PVC / TFE / TFE (dbl)
EFC = 316SS / TFE / 316SS (dbl)
CONNECTION A = Tubing .44" PVC Suction / .50" PE Discharge
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
SUFFIX XXX = Standard
CODES: 001 = Current Interrupter
500* = Five Function Valve
520* = Five Function Degas Valve
ITS = 15 gal ITS Tank System
Not available in SS. Adder price is per head. A completed model number should look like "1445-XA-BAAAXXX"

STANDARD ACCESSORIES

Series 100/150/100D/150D/200: Pumps with tubing connections come with foot valve/strainer/weight, 4' of suction tubing, bleed

Chem-Tech KOPk		KOPkits		W
	IKX100	= Chem-Tech Kopkit	- 🛛 🦉	00
THE DOOT DEDICITION.				
LIQUID END MATERIALS:	AAA	= Clear PVC / CSPE / Ceramic		
Head, Diaph., Seats & 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		
	DAB	= PP/CSPE/TFE		
	DBA	= PP / Viton / Ceramic = PP / Viton / TFE		
	DBB GFA			
	GFA	= Clear PVC / TFE / Ceramic (dbl) = Clear PVC / TFE / TFE (dbl)		
	EFC	= 316SS / TFE / 316SS (dbl)		
		= 510557 IFE7 51055 (dbl)		
CONNECTION :	A	= Tubing .44" PVC Suction / .50" PE Discharge		
	C	= Tubing .38" PVC Suction / .38" PE Discharge		
	F	= Tubing .44" PVC Suction / .50" PE BLK Discharge		
	s	= Tubing .38" PVC Suction / .38" PE BLK Discharge		
	X w/ 316	= .25" FNPT Suction / .25" FNPT Discharge		

Series 100, 150, 100D, 150D And 200 Parts Schedule

Part No. Description

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 without 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, TFE
00010	Discharge Tubing - per foot 3/8"	27911	Gasket
00011	Discharge Tubing - per foot 3/8" Black	28210	Gear Housing Assembly #210
20038	1/2" NPT Connection - PVC - fits Suction side of	28211	Gear Housing Assembly #215
20000	Pump Head and Back Ck. Vlv. Assy. (per connection)	28212	Gear Housing Assembly #220
20039	1/2" NPT 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, (SST-TFE-SST-1/4" S/D)
22257	Cam Bearing Assy. S150 - 68, 100 GPD	28897	Head Assy, (PVC-VT-C-1/2" S/D)
23700	Shaft Collar38 Small	28899	Head Assy, (PP-VT-C-1/2" S/D)
23701	Shaft Collar38 Large	28902	Head Assy, (PVC-VT-C-3/8" S/D)
J24269	Oil (quart)	29036	Head Assy, (PP-VT-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")		
J26907	Bulkhead Fitting (PVC-1/2")		
J26908	Bulkhead Fitting (PVC-3/8")		

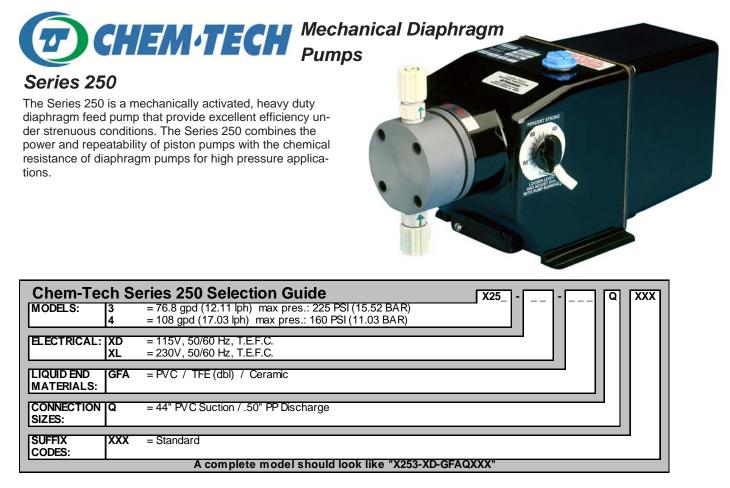
Series 100, 150, 100D, 150D And 200 Parts Schedule

Part Number	Description
J30514	Kit, Bleed, Valve, FPP/TFE/ 3/8
J30515	Kit, Bleed, Valve, PVC/HPY/ 1/2
J30517	Kit, Bleed, Valve, PVC/VTN/ 1/2
J30518	Kit, Bleed, Valve, PVC/TFE/ 1/2
J30519	Kit, Bleed, Valve, FPP/CSPE/ 1/2
L3300V03-FPP	Kit, Bleed, Valve, FPP/VTN/ 1/2
J30522	Kit, Bleed, Valve, FPP/TFE/ 1/2
31081	Locking Lever - S100, 215, 230, 260
31082	Locking Lever 20, 40, GPD S200
31083	Locking Lever - S150, 280, 2-100, 2-120
32520	Motor - 7 SPM, 115V, 60 Hz, 003
32521	Motor - 13 SPM, 115V, 60 Hz, 007
32522	Motor - 25 SPM, 115V, 60 Hz, 015
32523	Motor - 51 SPM, 115V, 60 Hz, 024/030/068
32524	Motor - 7 SPM, 230V, 60 Hz, 003
32525	Motor - 13 SPM, 230V, 60 Hz, 007
32526	Motor - 25 SPM, 230V, 60 Hz, 015
32527	Motor - 51 SPM, 230V, 60 Hz, 024/030/068
32528	Motor - 7 SPM, 230V, 50 Hz, 003
32529	Motor - 13 SPM, 230V, 50 Hz, 007 Motor - 25 SPM, 230V, 50 Hz, 015
32530 32531	
32531	Motor - 51 SPM, 230V, 50 Hz, 024/030/068 Motor - 70 SPM, 115V, 60 Hz, 100
32532	Motor - 70 SPM, 230V, 50 Hz, 100
32535	Motor - 70 SPM, 230V, 60 Hz, 100
J34379	Backing Plate
34405	Plate, Motor Cover
34423	Back Plate
34532	Oil Filler Plug w /Cap
J37073	Screw Motor Cover
37080	Output Adjust Screw 10, 20, 40 GPD
37081	Output Adjust Screw 15, 30, 60 GPD
37083	Output Adjust Screw 80, 100, 120 GPD
37088	Output Adj Screw - S150
37089	Output Adj Screw - S100
37300	Oil Seal
J37440	Valve Seat, CSPE
J37442	Valve Seat, Viton
37886	Diaphragm Shaft
38080	Locking Sleeve
38980	Diaphragm Return Spring
38981 38984	Coupling Spring Valve Spring - top - light
J38985	Valve Spring
J60717	Foot Valve & Strainer Assy (PVD-CSPE-C-3/8")
J60729	Foot Valve & Strainer Assy (PVD-CSPE-C-1/2")
J60718	Foot Valve & Strainer Assy (PVD-VT-C-3/8")
J60730	Foot Valve & Strainer Assy (PVD-VT-C-1/2")
J41540	Valve Housing Discharge, PVC 1/2"
41541	Valve Housing Discharge, PP 1/2"
41543	Valve Housing Discharge, PVC 3/8"
41544	Valve Housing Discharge, PP 3/8"
J41548	Valve Housing Suction, PVC 1/2"
J41834	Valve Housing Suction, PP 1/2"
41551	Valve Housing Suction, PVC 3/8"
J41835	Valve Housing Suction, PP 3/8"

Port Number	Decorintion
Part Number	Description
41588	Anti-Siphon Valve (PVC-VT-1/2")
41624	Anti-Siphon Valve (PVC-CSPE-1/2") (Standard)
41657	Back Check Valve Assy (PVC-CSPE-C-3/8")
J41658	Back Check Valve Assy (PVC-CSPE-C-1/2")
41659	Back Check Valve Assy (PP-VT-C-1/2")
41661	Back Check Valve Assy (PVC-VT-C-1/2")
41665	Anti-Scale Injector (PVC-CSPE-1/2")
41666	Double Ball Ck VIv Cart Assy (PVC-3/8") Suct
J41667	Double Ball Ck VIv Cart Assy (PVC-1/2") Suct
41668	Double Ball Ck VIv Cart Assy (PVC-3/8") Disch
J41669	Double Ball Ck VIv Cart Assy (PVC-1/2") Disch
J41694	Back Check Valve Assy (PVC-CSPE-C-1/2")
41695	Back Check Valve Assy (PVC-VT-C-3/8")
41696	Back Check Valve Assy (PP-VT-C-3/8")
41705	6" Ck Vlv Inj Assy (PVC-CSPE-C-3/8")
41707	6" Ck Vlve Inj Assy (PVC-VT-C-3/8")
41708	6" Ck Vlv Inj Assy (PVC-VT-C-1/2")
41709	6" Ck Vlv Inj Assý (PP-VT-C-3/8")
41710	6" Ck Vlv Inj Assy (PP-VT-C-1/2")
41720	Anti-Siphon Valve (PVC-CSPE-1/2" NPT)
41786	Anti-Siphon Valve (PVC-VT-1/2" NPT)
41795	Back Check Valve Assy (PVC-CSPE-C-1/2" x 1/2" NPT)
J42020	Head Bolt Washer SS .20 x .38
J42030	Fiber Washer
42031	Washer, Fiber
J60030	Head Assy (SAN-CSPE-C-3/8" D)
J61222	Kit, 5 Function Valve incl L380DT03-PVC for Series 100/200
J61271	Kit, 5 Function Valve incl L380FT03-PVC for Series 200
J61539	Kit, 5 Function Valve incl L380DT02-PVC for Series 100/200
J61502	Kit, Oil Drain Plug (includes J37002 & J42030)
J61503	Kit, S200 Back Plate Screws (5 - J37017, 5 - J42030)
J61504	Kit, S200 Motor Cover Hdw e (2 - J37002, 2 - J42030)
J61505	Kit, S100 Motor Cover Hdw e (4 - J37032, 2 - J37073)
J61506	Kit, S100 Cam Bearing Set Screw (2 - 37047)
J61507	Kit, S100 Motor Mount Hdw e (3 - 37049)
J61508	Kit, S200 Main Housing Screw
	(2 - 37021, 2 - J42083, 2 - 42031)
J61509	Kit, S200 Shaft Coupling Motor (1 - 24966, 1 - 37060)
J61510	Kit, S200 Shaft Coupling Gear (1 - 24967, 1 - 37061)
J61511	Kit, Screw Motor Cover (2 - J37073)
J61512	Kit, Valve Seats CSPE (4 - J37440)
J61513	Kit, Ball Checks (4 - J20560)
J61515	Kit, Valve Seats Viton (4 - J37442)
J61516	Kit, Head Mounting Bolts (4 - J37005, 4 - J42020)
J61518	Kit, Gasket TFE (4 - J27903)
L9906700-000	Sinker
00010	
20013	Pressure Relief Valve Adapter

STAINLESS STEEL PUMP ACCESSORIES

28896	316 SS Head Assy - Double Check VIv
	(TFE, SS) 1/4" FPT Conn
J41656	316 SS Double Back Ck VIv Assembly
	(TFE, SS) 1/4" FPT Conn
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
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IMPORTANT NOTES:

1. KOPkits are not available for this model.

2. Shipping weight is 21 lbs.

STANDARD ACCESSORIES:

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 Schedule

Part No.	Description	Part No.	Description
00006	Suction Tubing (per toot) 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 Shaft
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"		

MEC-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 100 PSI
- 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 applications
- Reliability: spring-loaded check valves for high reliability.

Mec-O-M	atic STINGRAY 100 and 200 Series Selection Guide
MODELS:	Series 100
	105 = 8.0 gpd (1.26 lph) max pres.: 100 PSI (6.90 BAR)
	110 = 12.0 gpd (1.89 lph) max pres.: 100 PSI (6.90 BAR)
	125 = 30.0 gpd (4.73 lph) max pres.: 100 PSI (6.90 BAR)
	150 = 60.0 gpd (9.46 lph) max pres.: 100 PSI (6.90 BAR)
	175 = 90.0 gpd (14.19 lph) max pres.: 60 PSI (4.14 BAR)
	Series 200
	205 = 8.0 gpd (1.26 lph) max pres.: 100 PSI (6.90 BAR)
	210 = 12.0 gpd (1.89 lph) max pres.: 100 PSI (6.90 BAR)
	225 = 30.0 gpd (4.73 lph) max pres.: 100 PSI (6.90 BAR)
	250 = 60.0 gpd (9.46 lph) max pres.: 100 PSI (6.90 BAR)
	275 = 90.0 gpd (14.19 lph) max pres.: 60 PSI (4.14 BAR)
ELECTRICAL	: IXA = 115V, 60 Hz
LIQUID END	BCA = PVC / Viton / Ceramic
MATERIALS:	
CONNECTION	LK
SIZES:	K = Tubing .38" PVC Suction / .38" PE Discharge
51213.	
ISUFFIX	XXX = Standard
CODES:	
	A completed model should look like "US110XA-BCAKXXX"

- 1. 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.
- 3. KOPkit includes head assembly, diaphragm and head screws.
- 4. Shipping weight is 8 lbs

STINGRAY Electro Mechanical Series



Mec-O-Ma	atic STINGRAY ELECTRO MECH. Selection Guide
MODELS:	105 = 8.0 gpd (1.26 lph) max pres.: 100 PSI (6.90 BAR)
	110 = 12.0 gpd (1.89 lph) max pres.: 100 PSI (6.90 BAR)
	205 = 8.0 gpd (1.26 lph) max pres.: 100 PSI (6.90 BAR)
	210 = 12.0 gpd (1.89 lph) max pres.: 100 PSI (6.90 BAR)
TIMED.	
TIMER:	D = 24 Hour Timer
	W = 7 Day Timer
ELECTRICAL	: JXA = 115V, 60 Hz
LIQUID END MATERIALS:	BCA = PVC / Viton / Ceramic
CONNECTION SIZES:	K = Tubing .38" PVC Suction / .38" PE Discharge
ISUFFIX	XXX = Standard
CODES:	
	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.

Decorintion

MEC-O-MATIC KOPkits	- Million Billioners -
Mec-O-Matic STINGRAY KOPkit Selection Guide KUSR_ PRODUCT DESIGNATOR: 1 = Series 100 2 = Series 200 -	Mec-O-Matic
LIQUID END MATERIALS: BCA = PVC / Viton / Ceramic Head, Diaph., Seats & Balls	

STINGRAY Series Parts Schedule Dart No

Dart No Decorintion

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
	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
U0818134	Viton Peri. Tube, 7/16" OD X 9"	U0818994	Tube PE, 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. .

factory for applicable

Contact

agency approvals.

	2/3 AA	Mec-O-Matic Series T-2000 Selection Guide US275 XA BCX				
MODELS: US275 = 6 oz. per minute max pres.: 100 PSI (6.90 BAR)						
ELECTRICAL: XA = 115V, 60 Hz						
LIQUID END BCXX112 = PVC / Viton / Ceramic MATERIALS:						

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

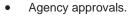
Dolphin Series

- 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 Indus try, and elsewhere.



factory for applicable agency approvals



Mec-O-Ma	atic DOLPHIN Series Selection Guide					
MODELS:	10 = 13.0 gpd (2.05 lph) max pres.: 25 PSI (1.72 BAR) 50 = 60.0 gpd (9.46 lph) max pres.: 25 PSI (1.72 BAR) 75 = 97.0 gpd (15.30lph) max pres.: 25 PSI (1.72 BAR)					
ELECTRICAL:	XA = 115V, 60 Hz XL = Standard 230V, 50/60 Hz, used w / Model 10 only XB = Standard 230V, 50 Hz, used w / Models 50 & 75 only XC = Standard 230V, 60 Hz, used w / Models 50 & 75 only					
	LSA = Norprene Tubing LBA = Viton Tubing					
CONNECTION SIZES:	U = Tubing .25" I.D. X .44" O.D.					
SUFFIX CODES:	XXX = Standard					
A completed model should look like "UD75-XA-LBAUXXX"						
Mec-O-Matic DOLPHIN KOPkit Series Selection Guide						
KUDXX-LSAU	= Standard KOPkit for all Dolphin Pumps (includes head & tube assembly					

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.

AEC-O-MATIC KOPkits

Mec-O-Matic DOL	HIN KOPkit Selection Guide	KUDXX
PRODUCT DESIGNATOR:	UDXX = Dolphin Kopkit	·
	SAU = Norprene Tubing CRM	
	LAU = Norprene Tubing BLK BAU = Viton Tubing	
	LAU = Norprene Tubing BLK	

DOLPHIN Series Parts Schedule

Part No.	Description	Part No.	Description
J60552	Strainer Assembly w/o valve		Gearmotor Assembly, 120V, 10 RPM - D10
24820	Pow er Cord 120V		Gearmotor Assembly, 240V, 10 RPM - D10
24821	Pow er Cord 240V	U0818618	Gearmotor Assembly, 120V, 50 RPM - D50
U0817630	Lead Assembly	U0818619	Gearmotor Assembly, 240V, 50 RPM - D50
U0817635	Knob	U0818620	Gearmotor Assembly, 120V, 75 RPM - D75
U0817923	Switch, Rocker	U0818621	Gearmotor Assembly, 240V, 75 RPM - D75
U0817942	Screw 10 - 32 X .688", Motor Mount	U8800431	Tubing cut 1/4" X 15 ft. PE
U0819142	Box, Front	U8800637	Tubing Replacement Kit (7/16"Norprene Crm)
U0819143	Box, Back	U8800651	Pump Head Assembly
U0818180	Potentiometer Assembly	U8800712	Injection Fitting
U0818564	Fan D10 (CW)	U8800740	Kit, Timer 120V (1 - U0818183, 1 - U0020522)
U0818565	Fan D50, D75 (CCW)	U8800741	Kit, Timer 240V (1 - U0818182, 1 - U0020522)
U0812955	Screw 8 - 32 X 1/4", Fan	U8800742	Kit, Pump Head Bearings (2 - U0817121)
L9900700-000	Strain Relief	U8800743	Kit, Collars (2 - U0817123)
		U8800758	Kit, Pump Head Tubing (Viton)

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.



Mec-O-Ma	atic '	VSP Series Selection Guide	UVSP			U	XXX
MODELS:	12 20	= 12.0 gpd (1.89 lph) max pres.: 25 PSI (1.72 BAR) = 20.0 gpd (3.15 lph) max pres.: 25 PSI (1.72 BAR)					
ELECTRICAL:	XP XR	= 24VAC = 120V 50/60 Hz					
		= Norprene Tubing = Viton Tubing					
CONNECTION SIZES:	U U	= Tubing .19" I.D. X .38" O.D. used w / UVSP12 only = Tubing .25" I.D. X .44" O.D. used w / UVSP20 only			_		
SUFFIX CODES:	XXX	= Standard					1
A completed model should look like "UVSP12XRLLAUXXX"							

Shipping weight for all VSP pumps is 6 lbs.

VSP Series Parts Schedule

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

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



Mec-O-Ma	atic 2400T Series Selection Guide	
MODELS:	UT24 = 2.5 gpd (0.39 lph) max pres.: 25 PSI (1.72 BAR) used w/2400T & 2400T PLUS UT24 = 3.0 Oz / 1 Min max pres.: 25 PSI (1.72 BAR) used w/2400T-DC only	
ELECTRICAL:	-XA = 115V, 60 Hz used w / 2400T only PXA = 115V, 60 Hz used w / 2400T PLUS only -AD = 12V DC used w / 2400T-DC only	
LIQUID END MATERIALS:	LT = Silicone Tubing LB = Viton Tubing LL = Norprene Tubing used w / 2400T-DC only	
CONNECTION SIZES:	AU = Tubing .125" l.D. X .31" O.D. XU = Tubing .25" l.D. X .44" O.D. used w / 2400T-DC only	<u> </u>
SUFFIX CODES:	XXX = Standard	_
	A completed model should look like "UT24-XA-LBAUXXX"	

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 Schedule

2400T DC Series Parts Schedule

Part No. Description U0812955 Screw 6 - 32 X .25" PHP U0817888 Shoulder Screw U0818026 Spacer SST (Motor) U0818061 Toggle Switch U0818066 Screw 8 - 32 X 1.25 FHP U0818881 12V DC Motor U0818888 PVC Spacer (Timer) U0818895 1/4" X 20' Tubing PE U0818897 Housing Assembly w /lock	Part No. U0818902 U0818903 U0818904 U0819037 U8800490 U8800637 U8800651 U8800700 U8800742	Description Battery Holder Assembly Low Battery Board Assembly Ground Wire Connection 12V DC Timer LO AMP Injection Fitting 7/16" Tubing Kit (Peristaltic) Pump Head Assembly Kit (No Tubing) 3/8" Tubing Kit Kit, Pump Head Bearings (2 - U0817121)
U0818897 Housing Assembly w /lock U0818901 Lock Nuts (10-24 NY - Lock)	U8800742	Kit, Pump Head Bearings (2 - U0817121)