

pulsafeeder.com

Product List



Metering Pumps and Control Systems

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IMPORTANT INFORMATION WHEN PLACING AN ORDER

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

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

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

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

Account Name Special Tags or Marks (if needed)

Billing Zip Code Item(s) Being Ordered Purchase Order Number Quantity of Each Item

Ship To Address

- 3) Orders are immediately entered into the computer upon receipt. Our ability to change in house orders is limited. Please be certain your orders are complete when placed.
- 4) For assistance or to order a "special" pump model not available in the price schedule, please contact our Technical Support Department.
- 5) Orders are assigned standard lead times based on the size of the order and the time required to manufacture the particular products. Requests to expedite orders may be routed through our Customer Service Department.
- 6) Repairs and returns are coordinated through our Customer Service Department. All orders returned must have factory authorization and are subject to a 25% restocking charge for standard product.
- 7) Other Locations:

PULSAFEEDER (Knight UK Limited)

Highland Industrial Estate, Unit 12 & 13 Edison Rd Eastbourne, East Sussex England, BN23 6PT Tel: +44 1323514855 Fax: +44 1323514828

Latin America (Office Only)

Av Ejercito Nacional #404 Piso 8, Officinas 801-802 Col. Chapultepec Morales Mexico, DF, CP 11560 Mexico Tel: 52-555-255-1357

Fax: 52-555-255-1356

Far East (Office Only)

Room 3502-3504, Zhao Feng Plaza No. 1027 Changning Rd Shanghai 200050, China Tel: 86-2163906367 Fax: 86-2163863338

IDEX India Private Ltd.

Sunteck Center, 3rd Floor 37-40 Subhash Road, Vile Parle East Mumbai-400 057, India Tel: 91-22-66435500

Fax: 91-22-66780055

- Prices are subject to change without notice and are effective when order is accepted and acknowledged at point of shipment.
- When ordering, specify your P.O. number, model number, quantity, price, shipping and/or billing address and order date.
- Standard terms are NET 30 days from date of invoice for approved accounts on open account.
- WE ACCEPT VISA AND MASTERCARD.
- ONE PERCENT DISCOUNT AVAILABLE FOR PAYMENT WITHIN 10 DAYS OF INVOICE DATE FOR ACCOUNTS THAT ARE CURRENT.
- PAYMENT BY CREDIT CARD WILL NOT RECEIVE AN ADDITIONAL DISCOUNT.
- All prices are F.O.B. Punta Gorda, FL or factory warehouse location.
- Custom product sales are final.
- Charges for export documentation apply.
- Expediting fees may apply.
- Fees for changes to or cancellation of orders may apply.
- Minimum factory order of \$50.
- Possession of price schedule does not guarantee right to purchase direct from factory.

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



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 power output from the pump based on user specified conditions.
Alarm Display	Flashing display or LED indicator that will display an alarm condition on the front panel of the pump.
Timed Sequences	Ability to pre-program operation for repetitive metering.
Programmable Timer	Timer that can be programmed with up to 8 on/off cycles per day during a 7-day week.
Hall Effect	Hall Effect Water Meter input.
Conductivity Control	Includes a conductivity controller built into the pump.
Bleed Relay	Separate relay used to control a solenoid that will "Bleed" a cooling tower as part of a control system.
Timer Control	User defined timer functions that control when the pump will operate. Used in Cooling Tower control systems.
Flow Control	Optional Flow Switch turns pump on when flow is active.

	Flow Ca	pacity	Pres	sure	Turn Down	4-20 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	'- 7	20	E,	Ey St	ıΤ	ΙQ	Sign	AI	⊨ _{ဆိ}	Pr Ti
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

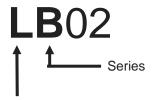


Once you have selected the appropriate Series, you must configure the model so that it is built with the features you desire. The Configuration Guide associated with each Series will present the most popular selections. Select one code from each category to build up a complete model string.

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

Model Selection:

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



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

LB02

Flow/Pressure Code

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

Digits 3 & 4 represent the Flow/Pressure Code.

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

Series Code De	esignator
Series MP	М
Series E Plus	Р
Series HV	V
Series E	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.



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.

PUI	LS/	Atron Wet-End Code Selection Guide
Head	1 & 1	Fittings
l A	=	316 Stainless Steel (All models except H8)
K	=	PVDF (Kynar) (Consult factory for J7, H8 models)
l P	=	GFPPL (Polypropylene)
V	=	PVC (Poly Vinyl Chloride) (for models rated
		< 150 psi excluding K7, H7, H8)
W	=	PVC (for models > 150 psi and K7, H7, H8)
Seat	S	
H	=	CSPE
T	=	TFE (not available with TFE ball over 150 psi)
V	=	Viton (150 psi max.)
<u> </u>		
Balls	;	
	=	Ceramic
H	=	Alloy C (Hastelloy)
S	=	316 Stainless Steel
T	=	TFE (not available with TFE seat over 150 psi)

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

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

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

Selecting the Connection Code:

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

Flow Rate:

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

Ball Type:

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

Viscosity:

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

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	GPH Flow Limitations-250 SPM	Viscosity	Other Factors
2	Piping	.25" FNPT	.25" FNPT		0 - 1.88	0-3.76	1000 up to 3000 cps w/ SS balls	No Bleed Valve
4	Piping	.25" FNPT	.25" FNPT		1.63 - 10	3.26-20	1000 up to 3000 cps w/ SS balls	No Bleed Valve
6	Piping	.25" FNPT	.25" FNPT	Yes	Up to 10	NA	less than 10,000 cps	No Bleed Valve
8	Piping	.50" FNPT	.50" FNPT	Yes	Up to 25	NA	less than 10,000 cps	No Bleed Valve
С	Pipina	.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
Ī	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
Х	Pipina	.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
Α	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	Tubina	.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		
М	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	
٧	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			6.15 - 37.85	12.3-75.7	1000 up to 3000 cps w/ SS balls	
Υ	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.



Suffix Code:

B02SA-PTC1-XXX

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.

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:

Valve Body Polyvinylidene Flouride (PVDF)

Diaphragm TFE faced CSPE

O-Rings **TFE**

Hardware 18-8 Stainless Steel (Recessed)

1000 CPS

Maximum Operating

300 PSI/21 BAR (except PVC) Pressure:

Maximum Flow: 10 GPH (37.85 LPH)

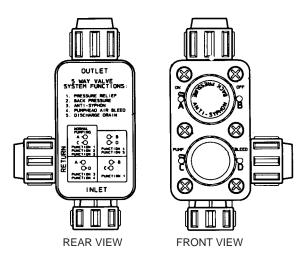
Maximum Viscosity:

Pressure Relief

Settings: 275 PSI (17 BAR) - red (nominal cracking 175 PSI (12 BAR) - green 125 PSI (8.6 BAR) - blue pressure)

50 PSI (2.8 BAR) - black (PVC only)

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



OPERATION

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

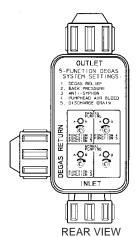
The five function valve is compatible with most PULSAtron pumps. Connected to the existing discharge valve the five function valve is capable of handling a large output flow as well as viscous liquids. A return port located on the side body provides flow of chemical back to the solution tank when in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

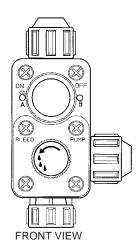
520 = DG/5FV Five Function Valve with De-Gas

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

FEATURES

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





SPECIFICATIONS

Material Of Construction:

Valve Body Polyvinylidene Flouride (PVDF)

Diaphragm TFE faced CSPE **O-Rings** Viton or CSPE

Hardware 18-8 Stainless Steel (Recessed)

Maximum Flow: 10 GPH (37.85 LPH)
Minimum Flow: 3 GPD (.47LPH)

Maximum Viscosity: 1000 CPS

MAX Pressure Ratings: Up to 250 psi (17 BAR)

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

Connections: ¼" (0.635 cm) Male NPT

1/2" (1.27 cm) OD tubing 3/8" (0.95 cm) OD tubing

OPERATION

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

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

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.



PUISAtron®

Electronic Metering Pumps

Series MP

Key Features

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









Pressure and Flow Rate Capacity

MODEL	-	LMK2	LMB2	LMA2	LMD3	LMB3	LMA3	LMK3	LMF4	LMD4	LMB4	LMH4	LMG4	LME4	LMK5	LMH5	LMH6	LMK7	LMH7	LMH8
Capacity	GPH	0.13	0.21	0.25	0.50	0.50	0.50	0.60	0.85	0.90	1.00	1.70	1.75	1.85	2.50	3.15	5.00	8.00	10.00	21.00
nominal	GPD	3	5	6	12	12	12	14	20	22	24	41	42	44	60	76	120	192	240	504
(max.)	LPH	0.5	0.8	0.9	1.9	1.9	1.9	2.3	3.2	3.4	3.8	6.4	6.6	7.0	9.5	11.9	18.9	30.3	37.9	79.5
Pressure	PSIG	300	250	150	250	150	100	100	250	150	100	250	150	100	150	150	100	50	35	20
(max.)	BAR	21	17	10	17	10	7	7	17	10	7	17	10	7	10	10	7	3.3	2.4	1.3
Connections	Tubing							ID X 3/8 ID X 1/2								1/2" ID		D (LPH	D 8 ONLY See Not	
	Piping		1/4" FNPT															FNPT FNPT		

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

Engineering Data

Reproducibility: +/- 2% at maximum capacity

Viscosity Max CPS:

For viscosity up to 3000 CPS, select connection size 3, 4, B or C with 316SS ball material. Flow rate will determine connection/ball size. Greater than 3000 CPS require spring loaded

ball checks. See Selection Guide for proper connection.

Controls: 6-Station Membrane Switch Status Display: 16-Position LCD Dot Matrix Backilght

LED Indicator Lights, Panel Mount: Power On - Green

Pulsing - Green Flashing

Stop - Red

Stroke Frequency Max SPM: External Stroke Frequency Control (Automatic):

4-20 mADC, 20-4 mADC External Pacing

Output Relay (Signal Level Option): 24 VDC, 10 mA Output Relay (Power Option): 250 VAC, 50/60 HZ, 0.5A

Stroke Frequency Turn-Down Ratio: 100:1 Stroke Length Turn-Down Ratio: 10:1

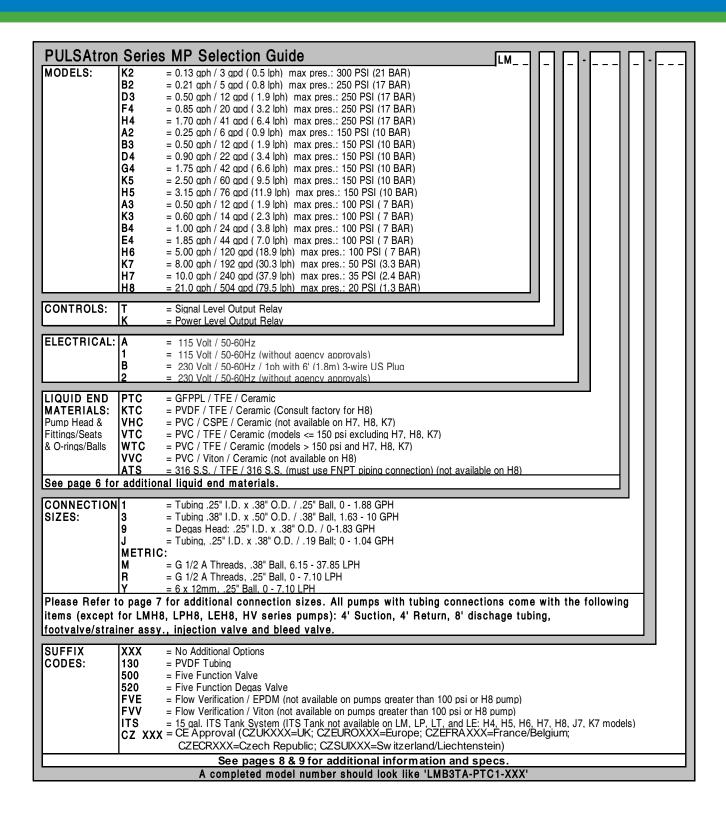
Engineering Data

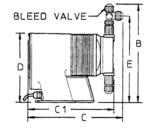
Power Input: 115 VAC/50-60 HZ/1 ph

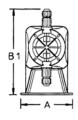
230 VAC/50-60 HZ/1 ph

Average Current Draw:

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







	Series MP Dimensions (inches)																
Model No.	Α	В	В1	С	C1	D	Ε	Shpg Wt	Model No.	Α	В	B1	С	C1	D	E	Shpg Wt
LMA2	5.4	10.3	-	10.8	-	7.5	8.9	13	LMH4	6.2	10.9	-	11.2	-	8.2	9.5	21
LMA3	5.4	10.6	1	10.7	-	7.5	9.2	13	LMH5	6.2	11.3	-	11.2		8.2	9.9	21
LMB2	5.4	10.3	-	10.8	-	7.5	8.9	13	LMH6	6.2	11.3	-	11.2		8.2	9.9	21
LMB3	5.4	10.6	1	10.7	-	7.5	9.2	13	LMH/	6.1	11./	-	11.2		8.2	10.3	21
LMB4	5.4	10.6	1	10.7	-	7.5	9.2	13	LMH8*	6.1	•	10.9	-	10.6	8.2		25
LMD3	5.4	10.6	1	11.2	1	7.5	9.2	15	LMK2	5.4	10.3	-	10.8	1	7.5	8.9	13
LMD4	5.4	10.6	1	11.2	1	7.5	9.2	15	LMK3	5.4	10.6	-	10.7	1	7.5	9.2	13
LME4	5.4	10.6	1	11.2	-	7.5	9.2	15	LMK5	5.4	10.9	-	11./		7.5	9.5	18
LMF4	5.4	10.6	-	11.7	-	7.5	9.2	18	LMK/	6.1	11.7	-	11.2	-	8.2	10.3	21
LMG4	5.4	10.6	1	11./	•	7.5	9.2	18	o dociar								

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).



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Pressure and Flow Rate Capacity

	MODEL LPK2 LPB2 LPA2 LPB3 LPB3 LPB3 LPB4 LPB4 LPB4 LPB4 LPB4 LPB4 LPB5 LPB5 LPB5 LPB6 LPK7 LPB7 LPB7 LPB7 LPB8																					
MODE	L	LPK2	LPB2	LPA2	LPD3	LPB3	LPA3	LPK3	LPF4	LPD4	LPB4	LPH4	LPG4	LPE4	LPK5	LPH5	LPG5	LPH6	LPK7	LPH7	LPJ7	LPH8
Capacity	GPH	0.13	0.21	0.25	0.5	0.50	0.50	0.60	0.85	0.90	1.00	1.70	1.75	1.85	2.50	3.15	4	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	96	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	15.1	18.9	30.3	37.9	37.9	94.6
Pressure	PSIG	300	250	150	250	150	100	100	250	150	100	250	150	100	150	150	100	100	50	35	80	30
(max.)	BAR	21	17	10	17	10	7	7	17	10	7	17	10	7	10	10	7	7	3.3	2.4	5.5	2
Connections	Tubing		•					ID X 3/8 ID X 1/2		•				•				3/8" ID X < 3/4" O		D 8 ONLY)	
	Piping						1.	/4" FNP	PT									1/4" I 1/2" I	FNPT FNPT			

Engineering Data

Reproducibility: +/- 2% at maximum capacity

Viscosity Max CPS:

For viscosity up to 3000 CPS, select connection size 3, 4, B or C with 316SS ball material. Flow rate will determine connection/ball size. Greater than 3000 CPS require spring loaded

ball checks. See Selection Guide for proper connection.

Stroke Frequency Max SPM: 125

Stroke Frequency Turn-Down Ratio: 10:1

 Stroke Length Turn-Down Ratio:
 10:1

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

 230 VAC/50-60 HZ/1 ph

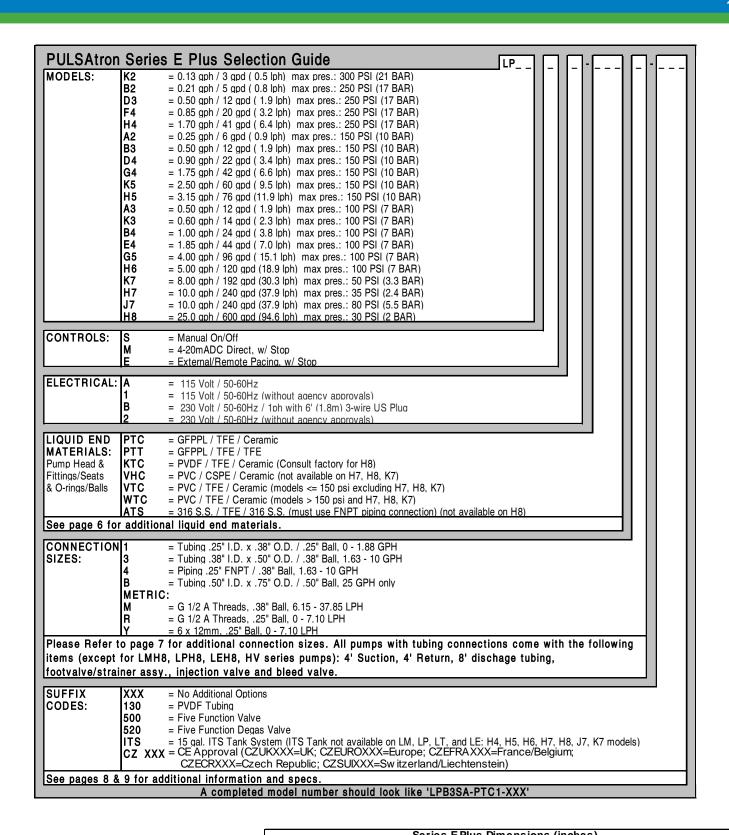
Average Current Draw:

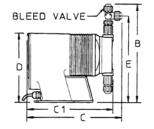
 @ 115 VAC; Amps:
 1.0 Amps

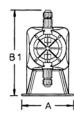
 @ 230 VAC; Amps:
 0.5 Amps

 Peak Input Power:
 300 Watts

 Average Input Power @ Max SPM:
 130 Watts







Series Epius Dimensions (inches)																	
Model No.	A	В	B1	С	C1	D	Е	Shpg Wt	Model No.	Α	В	B1	C	C1	D	Е	Shpg Wt
LPA2	5.4	10.3	-	10.8	-	7.5	8.9	13	LPH4	6.2	10.9	-	11.2	-	8.2	9.5	21
LPA3	5.4	10.6	-	10.7	-	7.5	9.2	13	LPH5	6.2	11.3	-	11.2	-	8.2	9.9	21
LPB2	5.4	10.3		10.8	-	7.5	8.9	13	LPG5	6.2	11.3	-	11.2	-	8.2	9.9	21
LPB3	5.4	10.6	-	10.7	-	7.5	9.2	13	LPH6	6.2	11.3	-	11.9	-	8.2	9.9	21
LPB4	5.4	10.6	-	10.7	-	7.5	9.2	13	LPH7	6.1	11.7	-	11.9	-	8.2	10.3	21
LPD3	5.4	10.6	-	11.2	-	7.5	9.2	15	LPH8*	6.1	-	10.9	-	11.3	8.2	-	26
LPD4	5.4	10.6	-	11.2	-	7.5	9.2	15	LPK2	5.4	10.3	-	10.8	-	7.5	8.9	13
LPE4	5.4	10.6	-	11.2	-	7.5	9.2	15	LPK3	5.4	10.6	-	10.7	-	7.5	9.2	13
LPF4	5.4	10.6	-	11.7	-	7.5	9.2	18	LPK5	5.4	10.9	•	11.7	•	7.5	9.5	18
LPG4	5.4	10.6	-	11.7	-	7.5	9.2	18	LPK7	6.1	11.7	-	11.2	-	8.2	10.3	21
									LPJ7	6.1	10.0	-	10.7	-	-	-	21

PUISAtron®

Electronic Metering Pumps

Series HV

Key Features

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



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.D.	.38" I.D. X .50	0" OD (LVB3 8	k F4 only)						
	Tubing	(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

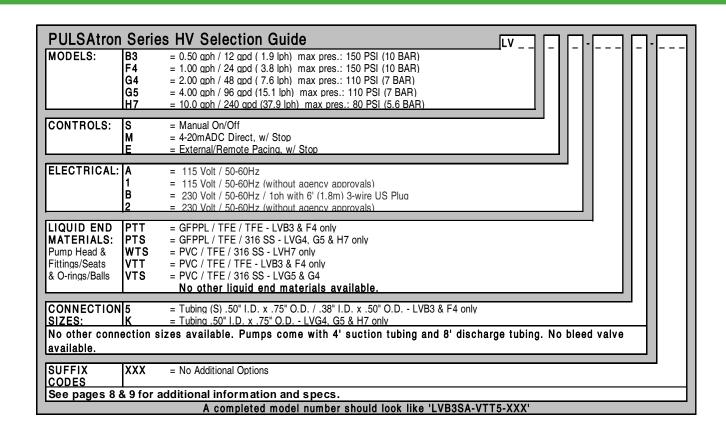
230 VAC/50-60 HZ/1 ph

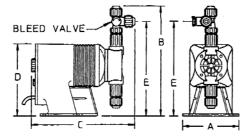
Average Current Draw:

@ 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





Series HV Dimensions (inches)										
Model	Α	A B C D Shipp								
No.	Α				Weight					
LVB3	/B3 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	6.1	11.5	11	8.2	25					

NOTE: Inches X 2.54 = cm

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.**

Pressure and Flow Rate Capacity

- Few Moving Parts and Wall Mountable.
- Safe & Easy Priming with durable leak-free bleed valve assembly (standard).









MODE	L	LEK2	LE12	LE02	LE33	LE13	LE03	LEK3	LEF4	LE34	LE14	LEH4	LEG4	LE44	LEK5	LEH5	LEH6	LEK7	LEH7	LEJ7	LEH8
Capacity	GPH	0.13	0.21	0.25	0.50	0.50	0.50	0.60	0.85	0.90	1.00	1.70	1.75	1.85	2.50	3.15	5.00	8.00	10.00	10.00	25.00
nominal	GPD	3	5	6	12	12	12	14	20	22	24	41	42	44	60	76	120	192	240	240	600
(max.)	LPH	0.5	0.8	0.9	1.9	1.9	1.9	2.3	3.2	3.4	3.8	6.4	6.6	7	9.5	11.9	18.9	30.3	37.9	37.9	94.6
Pressure	PSIG	300	250	150	250	150	100	100	250	150	100	250	150	100	150	150	100	50	35	80	30
(max.)	BAR	21	17	10	17	10	7	7	17	10	7	17	10	7	10	10	7	3.3	2.4	5.5	2
Connections	Tubing		1/4" ID X 3/8" OD 3/8" ID X 1/2" OD									3/8" ID X 1/2" OD 1/2" ID X 3/4" OD (LPH8 ONLY)									
	Piping		1/4" FNPT												/4" FNP						

Engineering Data

Reproducibility: +/- 3% at maximum capacity

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

> or C with 316SS ball material. Flow rate will determine connection/ball size. Greater than 3000 CPS require spring loaded ball checks. See Selection Guide for proper connec-

tion.

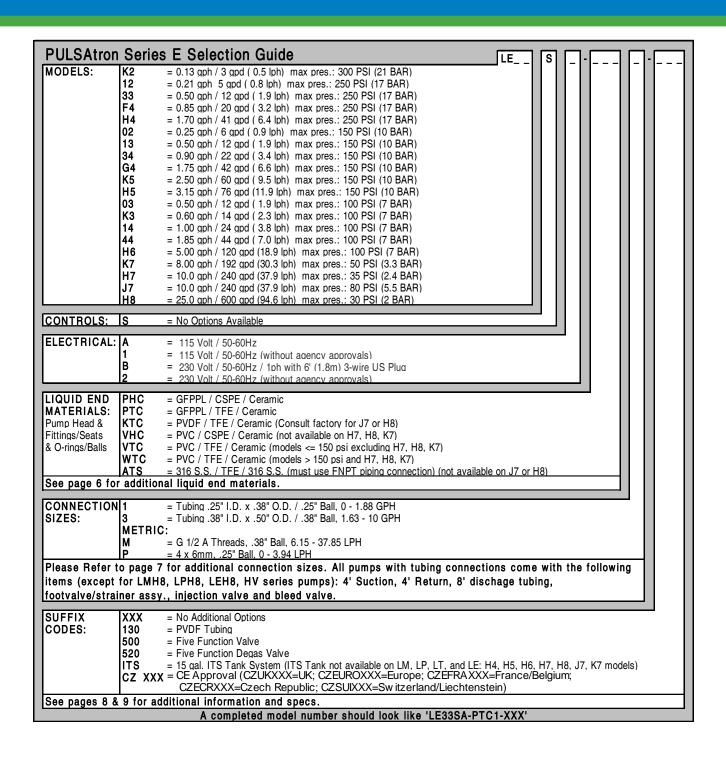
Stroke Frequency Max SPM: 125 Stroke Frequency Turn-Down Ratio: 10:1 Stroke Length Turn-Down Ratio:

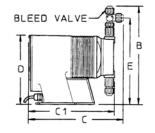
Power Input: 115 VAC/50-60 HZ/1 ph

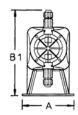
230 VAC/50-60 HZ/1 ph

Average Current Draw:

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







	Series E Dimensions (inches)																
Model No.	Α	В	B1	С	C1	D	Ε	Shpg Wt	Model No.	Α	В	B1	С	C1	D	E	Shpg Wt
LE02	5	9.6	-	9.5	-	6.4	8.2	7	LEH4	6.2	10.9	-	11.2	-	8.2	9.5	18
LE03	5	9.8	-	9.5	-	6.4	8.4	7	LEH5	6.2	11.3	-	11.2	-	8.2	9.9	18
LE12	5	9.6	-	9.5	-	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	1	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	1	11.2	1	7.5	9.2	12	LEK5	5.4	10.9	-	11.7	1	7.5	9.5	15
LEF4	5.4	10.6	ı	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	-	ı	-	18

NOTE: Inches X 2.54 = cm

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

PUISAtron®

Electronic Metering Pumps

Series E-DC **Key Features**

- Powered by 12 Volt DC..
- Manual Control by on-line adjustable stroke rate and stroke length.
- Agency approved for demanding OUTDOOR and indoor applications.
- Highly Reliable timing circuit.
- Water Resistant excellent for OUTDOOR and indoor applications.
- Internally Dampened To Reduce Noise, very acceptable for household installations.
- Guided Ball Check Valve Systems, to reduce back flow and enhance outstanding priming characteristics.
- Premium Standard Wetted Component Materials.
- Few Moving Parts and Wall Mountable.
- Safe & Easy Priming with durable leak-free bleed valve assembly (standard).





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" FNPT						

Engineering Data

Reproducibility: +/- 3% at maximum capacity

Viscosity Max CPS:

LS02, 13: 300 CPS LS14, 44: 1000 CPS Stroke Frequency Max SPM: 125 Stroke Frequency Turn-Down Ratio: 10:1 Stroke Length Turn-Down Ratio:

Power Input: 12.6 VDC Nominal Range 11.8-14.0 VDC

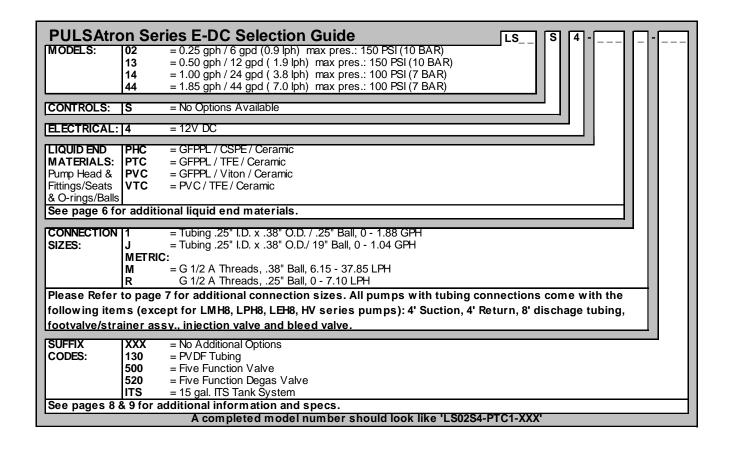
Average Current Draw:

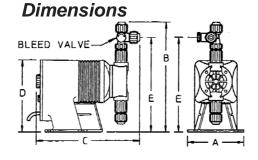
LS02, 13, 14 Amps: 4.0 Amps LS44 Amps: 8.0 Amps Peak Input Power:

LS02, 13, 14 Power: 138.6 Watts LS44 Power: 189 Watts

Average Input Power @ Max SPM:

LS02, 13, 14 Power: 50.4 Watts LS44 Power: 100.8 Watts





	Series E-DC Dimensions (inches)											
Model	Α	В	С	D	E	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												

PUISATTON® 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

				P 4. C 1. 1,					970	0150 97	00150	
	MODEL		LBC2	LB02	LBC3	LB03	LB04	LB64	LBC4	LBS2	LBS3	LBS4
Capacity		GPH	0.25	0.25	0.42	0.50	1.00	1.25	2.00	0.50	1.38	2.42
nominal		GPD	6	6	10	12	24	30	48	12	33	58
(max.)		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)											
Pressure ¹	w/TFE Seats)	PSIG	250 (17)	150 (10)	2E0 (17)	150 (10)	100 (7)	100 (7)	EO (2.2)	250 (17)	150 (10)	100 (7)
(max.)	PVC (V code) Viton or	(Bar)		150 (10)	250 (17)	150 (10)	100 (7)	100 (7)	50 (3.3)		150 (10)	100 (7)
	CSPE Seats / Degas											
	Liquid End		150 (10)							150 (10)		
Connections		Tubing			1/4" ID X	3/8" OD			3/8" ID X 1/2" OD	1/4	" ID X 3/8" (DD
		Piping					1.	4" FNPT	•			
Strokes/Minute		SPM				125					250	

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

Engineering Data

Reproducibility: +/- 3% at maximum capacity

Viscosity Max CPS: 1000 CPS

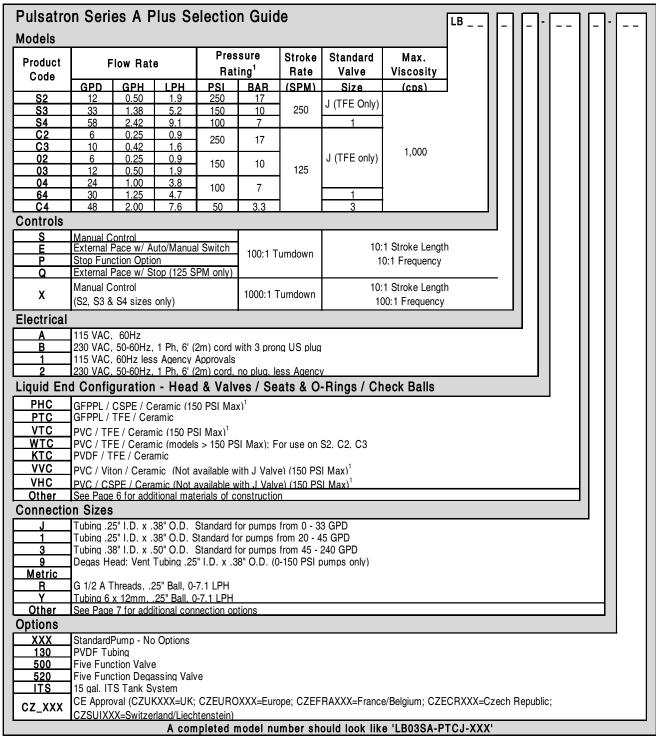
Stroke Frequency Max SPM: 125 / 250 by Model Stroke Frequency Turn-Down Ratio: 10:1 / 100:1 by Model

Stroke Length Turn-Down Ratio:

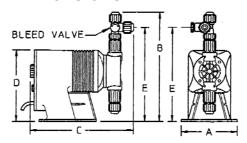
Power Input: 115 VAC/50-60 HZ/1 ph 230 VAC/50-60 HZ/1 ph

Average Current Draw:

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



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



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

MODEL		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



Contact factory for applicable agency approvals.

Engineering Data

Reproducibility: +/- 3% at maximum capacity

Stroke Length Turn-Down Ratio:

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

230 VAC/50-60 HZ/1 ph

Average Current Draw:

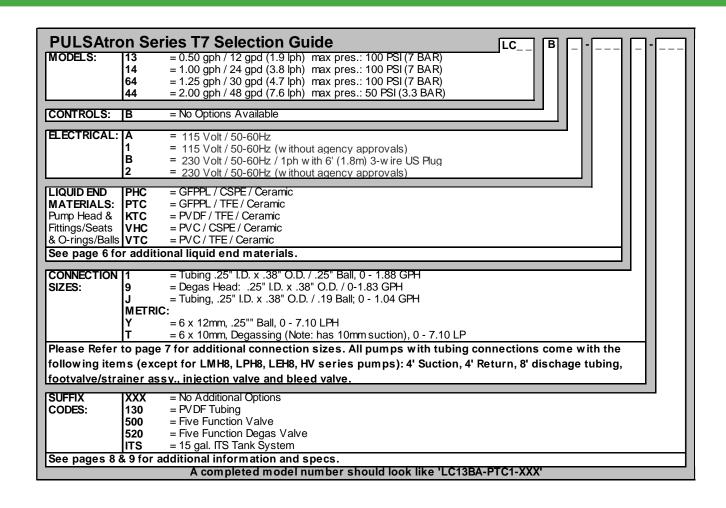
@ 115 VAC; Amps: 0.6 Amps

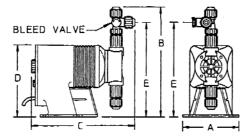
@ 230 VAC; Amps: 0.3 Amps @ 230 VAC



7-Day Timer

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





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

NOTE: Inches X 2.54 = cm

PUISAtron®

Electronic Metering Pumps

Series C PLUS

Key Features

- Manual Control by on-line adjustable stroke rate and stroke length.
- Agency approved for demanding OUTDOOR and indoor applications.
- Highly Reliable timing circuit.
- Water Resistant excellent for OUTDOOR and indoor applications.
- Internally Dampened To Reduce Noise, very acceptable for household installations.
- **Guided Ball Check Valve Systems,** to reduce back flow and enhance outstanding priming characteristics.
- Premium Standard Wetted Component Materials.
- Few Moving Parts and Wall Mountable.
- Safe & Easy Priming with durable leak-free bleed valve assembly (standard).
- Optional Control: External pace with auto/manual selection.









Pressure and Flow Rate Capacity

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

Engineering Data

Reproducibility: +/- 3% at maximum capacity

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

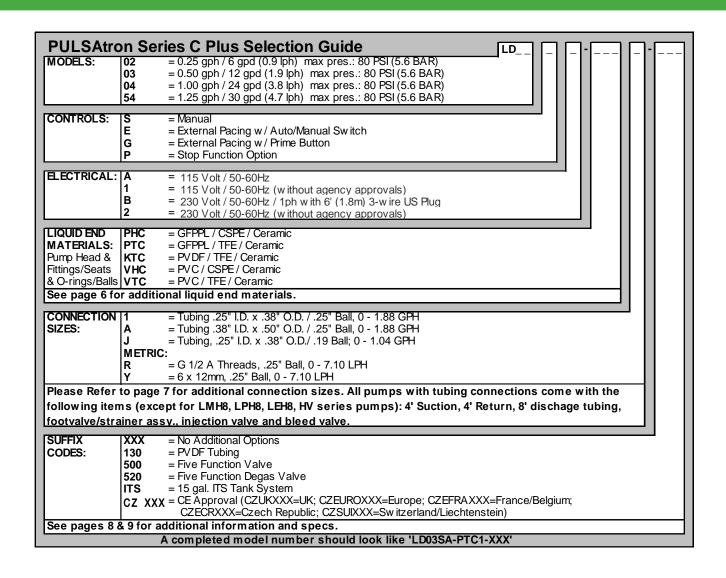
Power Input: 115 VAC/50-60 HZ/1 ph 230 VAC/50-60 HZ/1 ph

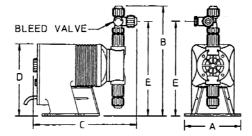
Average Current Draw:

@ 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





	Series C PLUS Dimensions (inches)											
Model	Α	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 = cm											

PUISAtron®

Electronic Metering Pumps

Series C

Key Features

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











Pressure and Flow Rate Capacity

MODEL	-	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" [NPT				

Engineering Data

Reproducibility: +/- 3% at maximum capacity

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

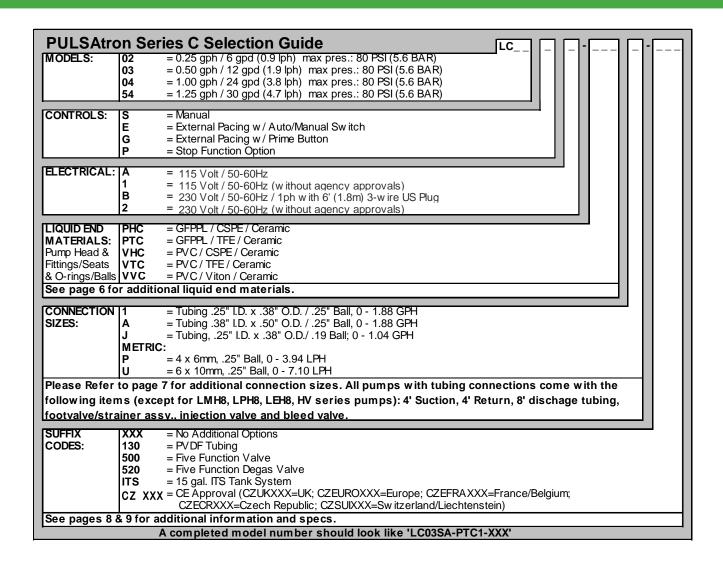
Power Input: 115 VAC/50-60 HZ/1 ph 230 VAC/50-60 HZ/1 ph

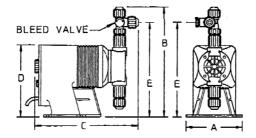
Average Current Draw:

@ 115 VAC; Amps: 0.6 Amps

@ 230 VAC; Amps: 0.3 Amps @ 230 VAC

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





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







factory for applicable agency approvals.

Pressure and Flow Rate Capacity

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

Engineering Data

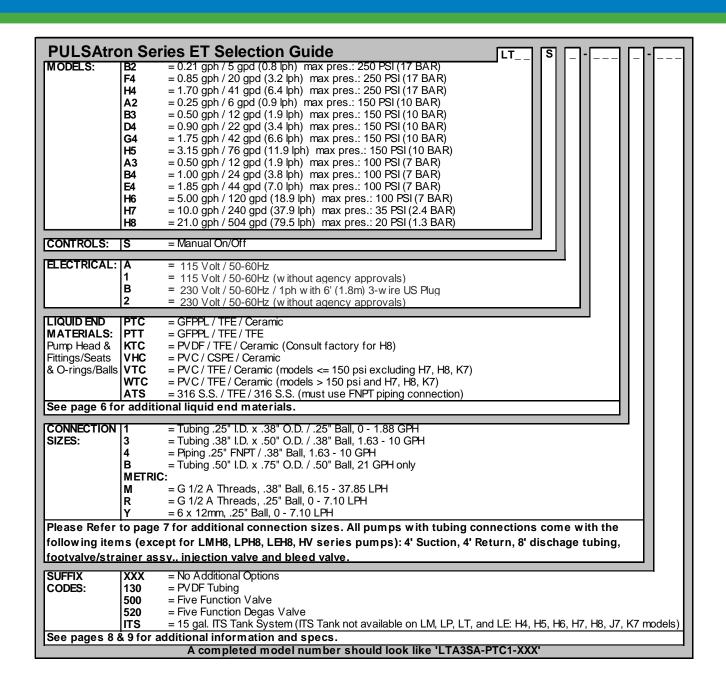
Reproducibility: +/- 2% at maximum capacity **Controls:** Standby On

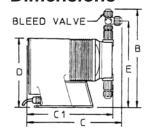
> 200 sec/10 count 200 sec/count 20 min/10 count 20 min/count

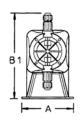
Stroke Length Turn-Down Ratio: 10:1

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

Power Output: 120VAC or 250VAC @ 50/60 HZ, 5A max







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



These four digits represent your wet-end code.

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

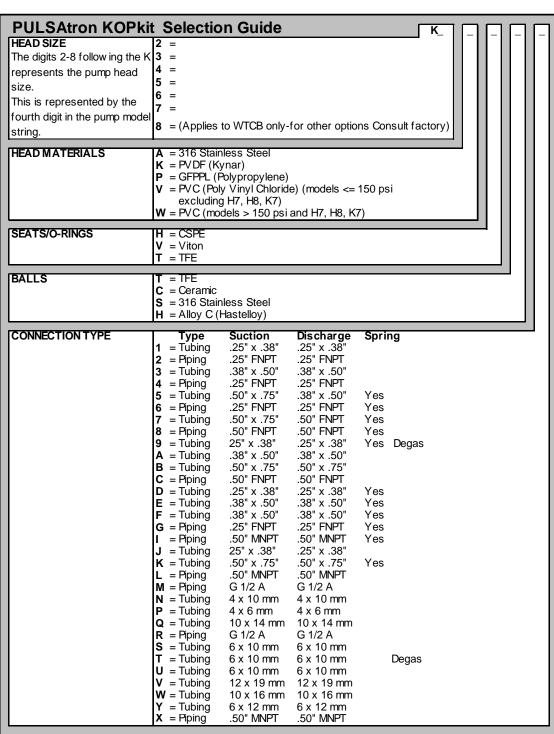
- P Head Material, including fittings. In this example, the P represents GFPPL.
- T Seat & O-Ring Material. In this example, the T represents Teflon.
- C Types of Balls used in the valves. In this example, the C represents Ceramic.
- 1 Connection type. In this example, the 1 represents tubing connections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

The completed KOPkit number for the above example is:

K2PTC1

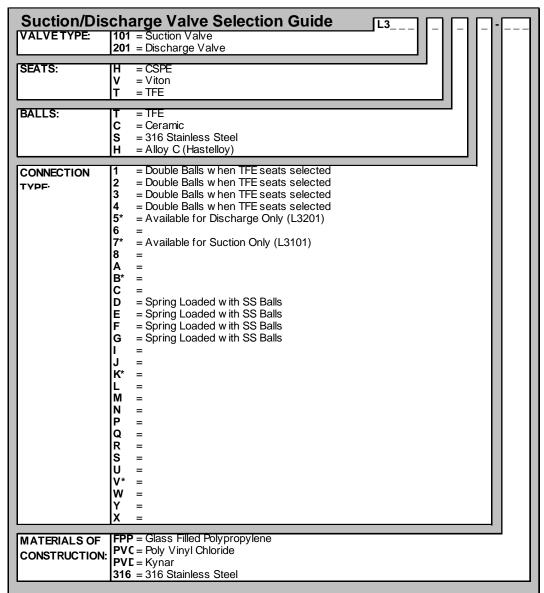
Note: If you do not find your connection size in the following selection guide, please consult the factory for accurate pricing. Our philosophy with the PULSAtron product line is to make it as flexible as our customers need it to be.





PUISAtron®

Suction/Discharge Valves



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

LIQUID END COMPONENTS

ten	LIQUID END COMPONENTS	
No.		
17	IL0200200-316 HEAD. PUMP	.750
1	L0200200-FPF HEAD, PUMP	.750
1	L0200900-FPH HEAD, PUMP HSA #2 HEAD J	.750
1	L0200900-PV(HEAD, PUMPHSA #2 HEAD J	.750
1	L0200200-PVI HEAD, PUMP HSA #2 HEAD J	.750
1	L0200300-316 HEAD, PUMP	1.000
1	L0200300-FPF HEAD, PUMP	1.000
1	L0202500-HPVHEAD, PUMP	1.000
1	L0200300-PVIHEAD, PUMP	1.000
1	L0200300-PV(HEAD, PUMP	1.000
1	L0201000-FPF HEAD, PUMP HSA #3 HEAD J	1.000
1	L0201000-PV (HEAD, PUMP HSA #3 HEAD J	1.000
1	L0201000-PV[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	1.625
1	L0200500-FPF HEAD, PUMP	1.625
1	L0200500-PV(HEAD, PUMP	1.625
1	L0200500-PVI HEAD, PUMP	1.625
1	L0200600-SS HEAD, PUMP	2.000
1	L0200600-FPF HEAD, PUMP	2.000
1	L0200600-PV(HEAD, PUMP	2.000
1	L0200600-PVI HEAD, PUMP	2.000
 	L0200700-316 HEAD, PUMP L0200700-FPH HEAD, PUMP	2.500 2.500
1	L0200700-PPI HEAD, POMP	2.500
+	L0200700-PV[HEAD, PUMP	2.500
+	L0200800-PPLHEAD, PUMP	3.625
H	L0200800-HPVHEAD, PUMP	3.625
2	L0300900-THY DIAPHRAGM	.750
2	I 0301000-THY DIA PHRAGM	1.000
2	L0301100-THY DIA PHRAGM	1.250
2	L0301200-THY DIA PHRA GM	1.625
2	L0301300-TH1 DIA PHRA GM	2.000
2	L0301400-THY DIA PHRA GM	2.500
2	L0301600-THY DIA PHRA GM	3.625
18	L1501300-HY SUC/DIS VLV O-RING, CSPE	
18	L1501300-TFE SUC/DIS VLV O-RING, TFE	
18		
24	L1103400-PV COUPLING NUT 5/16" OD	
24	L1100300-FPF COUPLING NUT 3/8" OD	
24	L1100300-PV COUPLING NUT 3/8" OD	
24	L1100300-PVI COUPLING NUT 3/8" OD	
24		
24		
	L1100400-PV COUPLING NUT 1/2" OD	
25		
36		
60	L1500700-NTF SECONDARY SEAL, O-RING 2-109	

DRIVE END COMPONENTS

		DRIVE END COMPONENTS	
ten		-	
No.		Description	
		DEFLECTION PLATE	.750
_		DEFLECTION PLATE	1.000
3		DEFLECTION PLATE	1.250
		DEFLECTION PLATE	1.625
		DEFLECTION PLATE	2.000
3		DEFLECTION PLATE	2.500
		ADAPTER, .750	HSG #2
		ADAPTER, 1.000	HSG #2
4		ADAPTER, 1.250	HSG #2
		ADAPTER, 1.625	HSG #2
4		ADAPTER, 1.250	HSG #3
4		ADAPTER, 1.625	HSG #3
		ADAPTER, 2.000	HSG #3
4		ADAPTER, 2.500	HSG #3
4		ADAPTER, .750	HSG #1
		ADAPTER, 1.000	HSG #1
4	L0401300-FP	ADAPTER, 1.250	HSG #1
		ADAPTER, 3.625	HSG #3
		SHIM, DIAPHRAGM	
		EPWADAPTER O-RING	
6	L1500600-NT	EPWADAPTER O-RING (ALL H PUMI	PS)
7	L9801700-188	#10-32 X 2.62 PAN HEAD, PHILLIPS	LP_2-4
7	L9801800-188	.25-20 X 2.62 PAN HEAD, PHILLIPS	LP_5-7
7	L9803400-188	.25-20 X 2.00 PAN HEAD	LP_8
7	L9803300-188	#10-32 X 2.00 PAN HEAD	316SS
		#10 REG FLAT WASHER	LP_2-4
		.25 REG FLAT WASHER	LP_5-8
50	L0100100-115	EPM A, B, K2, 3	115V
50	L0100100-230	EPM A, B, K2, 3	230V

DRIVE END COMPONENTS

No. Part No. Description 50 L0100200-115 EMD E. LE33, 34, 44 230, 50 10100300-230 EPM D. E. LE33, 34, 44 230, 50 10100300-230 EPM F. G. KS 115, 50 L0100300-230 EPM F. G. KS 230, 50 L0100300-230 EPM E. Z. 3, 12, 13, 14 220, 50 L0100300-230 EPM E. Z. 3, 12, 13, 14 220, 50 L0100300-230 EPM E. Z. 3, 12, 13, 14 220, 50 L0100300-230 EPM E. Z. 3, 13, 14 127, 50 L0100300-012 EPM E. Z. 3, 13, 14 127, 50 L0100300-012 EPM E. Z. 3, 13, 14 127, 50 L0100300-012 EPM E. Z. 3, 13, 14 127, 50 L0100300-014 HOUSING #2 040 STRP 10, 50 STR	tem	1	DRIVE END COMPONENTS	
SOL	No.	Part No.		445\/
SOL				
SOL				
SO L0100400-230 EPM H7, K7				
50 L0100500-115 EPM H7, K7				115V
SOL L0100500-230 EPM LC LD54 and LB64 2300 L0100600-135 EPM LE 2 3, 12, 13, 14 1350 L0100600-012 EPM LE 2 3, 12, 13, 14 2200 EPM LE 2 2, 3, 12, 13, 14 2200 EPM LE 2 2, 3, 12, 13, 14 2200 EPM LE 2 2, 3, 12, 13, 14 2200 EPM LE 2 2, 3, 12, 13, 14 2200 EPM LE 2 2, 3, 12, 13, 14 2200 EPM LE 2 2, 3, 12, 13, 14 2200 EPM LE 2 2, 3, 12, 13, 14 2200 EPM LE 2 EPM LE	50	L0100400-230		230V
SO L0100600-230 EPM LE2 3, 12, 13, 14	50	L0100500-115	EPM LC, LD54 and LB64	115V
50 L0100600-230 EPM LE 2, 3, 12, 13, 14 230\ 2010 L0100600-012 EPM LS 44 12VD\ 2010 L0100600-012 EPM LS 42, 13, 14 12VD\ 2010 L0100600-012 EPM LS 2, 13, 14 12VD\ 2010 L0100600-012 EPM LS 2, 13, 14 12VD\ 2010 L0100600-012 EPM LS 2, 13, 14 12VD\ 2010 L0100600-014 HOUSING #2 .040 STRF 10.0501100-040 HOUSING #2 .040 STRF 10.0501300-040 HOUSING #1 .040 STRF 10.0500300-040 HOUSING #1 .040 STRF 10.0500300-040 HOUSING #1 .040 STRF 12 L0700101-125 CNITR. BD, A-B-D-E SZE SLD .155\ 21.0700101-125 CNITR. BD, A-B-D-E SZE SLD .230\ 22.10700201-125 CNITR. BD, A-B-D-E SZE SLD .230\ 22.10700201-125 CNITR. BD, EXT/STOP, A, B, D, E .115\ 22.10700201-125 CNITR. BD, EXT/STOP, A, B, D, E .115\ 22.10700201-125 CNITR. BD, EXT/STOP, A, B, D, E .135\ 22.10700201-125 CNITR. BD, EXT/STOP, A, B, D, E .230\ 22.10700201-125 CNITR. BD, EXT/STOP, A, B, D, E .125\ 22.10700201-125 CNITR. BD, EXT/STOP, A, B, D, E .230\ 22.10700501-150 CNITR. BD, E-G SZE SLD .115\ 22.10700501-150 CNITR. BD, E-G SZE SLD .115\ 22.10700301-200 CNITR. BD, E-G SZE SLD .115\ 22.10700301-200 CNITR. BD, E-H SZE SLD .115\ 22.10700301-200 CNITR. BD, E-H SZE SLD .115\ 22.10700301-200 CNITR. BD, LEHB .115\ 22.10700301-200 CNITR. BD, LEHB .115\ 22.10700301-200 CNITR. BD, LUTF, LPILUTHB .230\ 22.10700301-200 CNITR. BD, LUTF, LPILUTHB .135\ 22.10700301-200 CNITR. BD, EXT/STOP, F, G .115\ 22.10700301-200 CNITR. BD, EXT/STOP, F, G .115\ 22.10700301-200 CNITR. BD, EXT/STOP, F, G .15\ 22.10700301-200 CNITR. BD, EXT/S				
50 L0100000-012 EPM LS24 12VDX			EPM LE 2, 3, 12, 13, 14	115V
50 L0100600-012 EPM LS 2, 13, 14 12V DS				
51 L0500100-080 HOUSING #2				
STI				
STI L0501100-080				
51 L0500300-040				
STEENSTORM HOUSING #1 .080 STR:				
152 10700101-125 CNIRL BD, A-B-D-E SIZE SLD 230V	-			
SZ LO700102-125				115V
52 L0700202-125 CNIRL BD, EXT/STOP, A, B, D, E 230\	52	L0700102-125		230V
52 L0700202-125 CNIRL BD, EXT/STOP, A, B, D, E 230\	52	L0700201-125	CNTRL BD, EXT/STOP, A, B, D, E	115V
52 L0700401-125 CNIRL BD, 4-20MA/STOP; A, B, D, E 135\ 52 L0700501-150 CNIRL BD, F-G SIZE SLD 135\ 52 L0700501-150 CNIRL BD, F-G SIZE SLD 230\ 52 L0700501-200 CNIRL BD, F-G SIZE SLD 135\ 52 L0700501-200 CNIRL BD, H-K SIZE SLD 135\ 52 L0700502-200 CNIRL BD, H-K SIZE SLD 230\ 52 L0700502-200 CNIRL BD, H-K SIZE SLD 230\ 52 L0700502-200 CNIRL BD, LEHB 115\ 52 L0700502-200 CNIRL BD, LEHB 115\ 52 L0700502-200 CNIRL BD, LEHB 115\ 52 L0709301-220 CNIRL BD, LEHB 115\ 52 L0709301-220 CNIRL BD, LUH, LPLVHB 135\ 52 L0709301-220 CNIRL BD, LVHT, LPLVHB 230\ 52 L0700801-150 CNIRL BD, EXT/STOP; F, G 115\ 52 L0700801-150 CNIRL BD, EXT/STOP; F, G 115\ 52 L0700801-200 CNIRL BD EXT/STOP H SIZE SLD 130\ 52 L0700801-200 CNIRL BD EXT/STOP H SIZE SLD 130\ 52 L0700801-200 CNIRL BD EXT/STOP LVHT, LPLVHB 230\ 52 L0700901-150 CNIRL BD EXT/STOP LVHT, LPLVHB 230\ 52 L0700901-150 CNIRL BD, 4-20 MA/STOP; F, G 115\ 52 L0700902-150 CNIRL BD, 4-20 MA/STOP; F, G 115\ 52 L0700902-200 CNIRL BD, 4-20 MA/STOP; F, G 115\ 52 L0700902-200 CNIRL BD, 4-20 MA/STOP; F, G 115\ 52 L0700902-200 CNIRL BD, 4-20 MA/STOP; F, G 115\ 52 L0700901-200 CNIRL BD, 4-20 MA/STOP; F, G 230\ 52 L0700901-200 CNIRL BD, 4-20 MA/STOP; F, G 115\ 52 L0700902-200 CNIRL BD, 4-20 MA/STOP; F, G 230\ 52 L0709201-220 CNIRL BD, 4-20 MA/STOP; H 115\ 52 L0709201-220 CNIRL BD, 4-20 MA/STOP; H 230\ 52 L0709201-250 CNIRL BD, 6-5 DC 52 L0709201-150 CNIRL BD, 6-5 SZE SING FUNC 53 L070000-150 CNIRL BD, CH, A+ 20\ 54 L070201-150 CNIRL BD, LMA, B, C, D, EK2, 3\ 55 L070000-150 CNIRL BD, LMA, B, C, D, EK2, 3\ 55 L070000-150 CNIRL BD, LMA, B, C, D, EK2, 3\ 55 L070000-150 CNIRL B			CNTRL BD, EXT/STOP; A, B, D, E	230V
150 150	_		CNTRL BD, 4-20MA/STOP; A, B, D, E	115V
12 10700502-150 CNIRL BD, F-G SZE SLD 230\	-			230V
150 150				115V
152 10709502-200 CNIRL BD, LEH8				
152 10709401-220 CNITRL BD, LEH8 1155 120709401-220 CNITRL BD, LVH7, LP/LVH8 1155 120709401-220 CNITRL BD, LVH7, LP/LVH8 1230 1252 10709401-220 CNITRL BD, LVH7, LP/LVH8 230 1252 10700801-150 CNITRL BD, EXT/STOP, F, G 1155 120700801-150 CNITRL BD, EXT/STOP, F, G 1230 1252 10700801-200 CNITRL BD, EXT/STOP, F, G 230 1252 10700801-200 CNITRL BD EXT/STOP H SIZE SLD 1155 1252 10700801-200 CNITRL BD EXT/STOP H SIZE SLD 1155 120709301-220 CNITRL BD EXT/STOP LVH7, LP/LVH8 1155 120709301-220 CNITRL BD EXT/STOP LVH7, LP/LVH8 1252 10709301-220 CNITRL BD EXT/STOP LVH7, LP/LVH8 1252 10709901-150 CNITRL BD, 4-20 MA/STOP, F, G 120709901-150 CNITRL BD, 4-20 MA/STOP, F, G 120709901-150 CNITRL BD, 4-20 MA/STOP, F, G 120709901-150 CNITRL BD, 4-20 MA/STOP, F, G 120709901-200 CNITRL BD, 4-20 MA/STOP, H 1155 120709901-200 CNITRL BD, 4-20 MA/STOP, H 1155 120709901-200 CNITRL BD, 4-20 MA/STOP, H 120709001-200 CNITRL BD, C+, A+ 120709001-200 CNITRL BD, C+, A+ 12070901-200 CNITRL BD, LM A, B, C, D, E/K2, 3 SIGNAL RELAY 12070901-125 CNITRL BD, LM A, B, C, D, E/K2, 3 CNITRL BD, LM A, B, C, D, E/K2, 3 CNITRL BD, LM A, B, C, D, E/K2, 3 CNITRL BD, LM A, B, C, D, E/K2, 3 CNITRL BD, LM A, B, C, D, E/K2, 3 CNITRL BD, LM A, B, C, D, E/K2, 3 CNITRL BD, LM A, B, C, D, E/K2, 3 CNITRL BD, LM A, B, C, D, E/K2, 3 CNITRL BD, LM A, B, C, D, E/K2, 3 CNITRL BD, L				
S2 L0709402-220 CNITRL BD, LEHB 230V				
1150 1150				
SZ L0709102-220 CNITRL BD, LVHT, LP/LVH8 230V				
S2 L0700801-150 CNITRL BD, EXT/STOP, F, G S2 L0700801-200 CNITRL BD, EXT/STOP H SIZE SLD S2 L0700801-200 CNITRL BD EXT/STOP H SIZE SLD S2 L0700801-200 CNITRL BD EXT/STOP H SIZE SLD S2 L0709301-220 CNITRL BD EXT/STOP LVH7, LP/LVH8 S1 S2 L0709301-220 CNITRL BD EXT/STOP LVH7, LP/LVH8 S1 S2 L0709301-220 CNITRL BD EXT/STOP LVH7, LP/LVH8 S2 L0709901-150 CNITRL BD, 4-20 MA/STOP, F, G S2 L0700901-150 CNITRL BD, 4-20 MA/STOP, F, G S2 L0700901-200 CNITRL BD, 4-20 MA/STOP, F, G S2 L0700901-200 CNITRL BD, 4-20 MA/STOP, H S2 L0709201-220 CNITRL BD, 4-20 MA/STOP, H S2 L0709201-220 CNITRL BD, 4-20MA/STOP, H S2 L0709201-220 CNITRL BD, 5 L0709201-220 CNITRL BD, 4-20MA/STOP, LVH7, LP/LVH8 S2 L0709201-220 CNITRL BD, 5 L07004/STP, LVH7, LP/LVH8 S3 L0709201-220 CNITRL BD, 5 L07004/STP, LVH7, LP/LVH8 S3 L0709201-220 CNITRL BD, 6 L07004/STP, LVH7, LP/LVH8 S3 L0709201-220 CNITRL BD, 0, 5 SIZE SING FUNC S3 L070100-150 CNITRL BD, 0, 5 SIZE SING FUNC S3 L070100-150 CNITRL BD, 0, 5 SIZE SING FUNC S3 L0702701-125 CNITRL BD, LMA, B, C, D, E/K2, 3 SIGNAL RELAY S1 L0702701-125 CNITRL BD, LMA, B, C, D, E/K2, 3 L0702701-125 CNITRL BD, LMA, B, C, D, E/K2, 3 L0703801-150 CNITRL BD, LMA, B, C, D, E/K2, 3 L0703801-150 CNITRL BD, LMA, B, C, D, E/K2, 3 L0703801-150 CNITRL BD, LMA, B, C, D, E/K2, 3 L0703701-150 CNITRL BD, LMA, B, C, D, E/K2, 3 L0703701-150 CNITRL BD, LMA, B, C, D, E/K2, 3 L0703701-150 CNITRL BD, LMA, B, C, D, E/K2, 3 L0703701-150 CNITRL BD, LMA, B, C, D, E/K2, 3 L0703701-150 CNITRL BD, LMA, B, C, D, E/K2, 3 L0703701-150 CNITRL BD, LMA, B, C, D, E/K2, 3 L0703701-150 CNITRL BD, LMA, B, C, D, E/K2, 3 L0703701-15				
S2 L0700802-150 CNITRL BD, EXT/STOP, F, G S200				
150				
152 10709301-220 CNTRL BD EXT/STOP LVH7, LP/LVH8 1150 120703902-220 CNTRL BD EXT/STOP LVH7, LP/LVH8 2300 2300 23000901-150 CNTRL BD, 4-20 MA/STOP, F, G 1150 2300 2300 23000901-200 CNTRL BD, 4-20 MA/STOP, H 1150 2300 2300 23000901-200 CNTRL BD, 4-20 MA/STOP, H 1150 2300 2				115V
S2				230V
52 L0700901-150 CNTRL BD, 4-20 MA/STOP, F, G 230V 52 L0700902-150 CNTRL BD, 4-20 MA/STOP, F, G 230V 52 L0700902-200 CNTRL BD, 4-20 MA/STOP, H 115V 52 L0700902-200 CNTRL BD, 4-20MA/STOP, H 230V 52 L0709201-220 CNTRL BD, 4-20MA/STOP, H 230V 52 L0709201-220 CNTRL BD, 4-20MA/STP, LVH7, LP/LVH¢ 115V 52 L0709201-220 CNTRL BD, 4-20MA/STP, LVH7, LP/LVH¢ 115V 52 L070900-150 CNTRL BD, 4-20MA/STP, LVH7, LP/LVH¢ 230V 52 L0701900-150 CNTRL BD, 5 SIZE SING FUNC 115V 52 L9906500-000 CNTRL BD, 0, 5 SIZE SING FUNC 230V 52 L9906201-000 CNTRL BD, 0, 5 SIZE SING FUNC 230V 52 L9906201-000 CNTRL BD, C+, A+ 115V 52 L9906201-000 CNTRL BD, C+, A+ 230V 52 L0702701-125 CNTRL BD, LMA, B, C, D, E/K2, 3 SIGNAL RELAY 115V 52 L0702901-125 CNTRL BD, LMA, B, C, D, E/K2, 3 POWER RELAY 230V 52 L0702901-125 CNTRL BD, LMA, B, C, D, E/K2, 3 POWER RELAY 115V 52 L0703801-150 CNTRL BD, LMA, B, C, D, E/K2, 3 POWER RELAY 230V 52 L0703701-150 CNTRL BD, LMF, G, K5 SIGNAL RELAY 115V 52 L0703701-150 CNTRL BD, LMF, G, K5 SIGNAL RELAY 115V 52 L0703701-150 CNTRL BD, LMF, G, K5 POWER RELAY 115V 52 L0703701-150 CNTRL BD, LMF, G, K5 POWER RELAY 115V 52 L0703701-150 CNTRL BD, LMF, G, K5 POWER RELAY 230V 52 L0703701-150 CNTRL BD, LMF, G, K5 POWER RELAY 115V 52 L0703701-150 CNTRL BD, LMF, G, K5 POWER RELAY 230V 52 L0703701-150 CNTRL BD, LMF, G, K5 POWER RELAY 115V 52 L0703001-190 CNTRL BD, LM H, K7 Signal Relay 115V 52 L0703001-190 CNTRL BD, LM H, K7 POWER RELAY 230V 52 L0705106-120 CNTRL BD, LM H, K7 POWER RELAY 230V 52 L0705106-120 CNTRL BD, LM H, K7 POWER RELAY 230V 53 L0601300-000 CNTRL BD, EXT, C+, A+ 230V 54 L0601300-000 CNTRL PNL, SERIES MP POWER KA K7 53 L0601300-000 CNTRL PNL, SERIES MP POWER KA K7 53 L0601300-000 CNTRL PNL, SERIES MP POWER KA K7 54 L1600500-000 CNTRL PNL, SERIES MP POWER KA K7 55 L0000100-040 SHAFT, ADJ FEMALE .040 HSG #2,55 L0000100-040 SHAFT, ADJ FEMALE .040	52	L0709301-220	CNTRL BD EXT/STOP LVH7, LP/LVH8	115V
52 L0700902-150 CNTRL BD, 4-20 MA/STOP, F, G 52 L0700901-200 CNTRL BD, 4-20 MA/STOP, H 52 L0700901-200 CNTRL BD, 4-20 MA/STOP, H 52 L0709201-220 CNTRL BD, 4-20MA/STOP, LVH7, LP/LVH£ 52 L0709201-220 CNTRL BD, 4-20MA/STOP, LVH7, LP/LVH£ 53 L0709201-220 CNTRL BD, 4-20MA/STP, LVH7, LP/LVH£ 54 L0709202-220 CNTRL BD, 4-20MA/STP, LVH7, LP/LVH£ 55 L0701900-150 CNTRL BD, 4-20MA/STP, LVH7, LP/LVH£ 56 L0701900-150 CNTRL BD, 5 SIZE SING FUNC 57 L9906500-000 CNTRL BD, 0, 5 SIZE SING FUNC 58 L9906600-000 CNTRL BD, 0, 5 SIZE SING FUNC 59 L9906201-000 CNTRL BD, 0, 5 SIZE SING FUNC 50 L9906201-000 CNTRL BD, C+, A+ 50 L0702701-125 CNTRL BD, LMA, B, C, D, E/K2, 3 50 L0702701-125 CNTRL BD, LMA, B, C, D, E/K2, 3 51 L0702701-125 CNTRL BD, LMA, B, C, D, E/K2, 3 52 L0702901-125 CNTRL BD, LMA, B, C, D, E/K2, 3 52 L0702901-125 CNTRL BD, LMA, B, C, D, E/K2, 3 52 L0702901-125 CNTRL BD, LMA, B, C, D, E/K2, 3 52 L0703801-150 CNTRL BD, LMA, B, C, D, E/K2, 3 52 L0703802-150 CNTRL BD, LM, F, G, K5 53 L0703701-150 CNTRL BD, LM, F, G, K5 54 L0703001-190 CNTRL BD, LM, F, G, K5 55 L0703001-190 CNTRL BD, LM, K7 Signal Relay 55 L0703001-190 CNTRL BD, LM, K7 Signal Relay 56 L0703001-190 CNTRL BD, LM, K7 Signal Relay 57 L0705006-120 CNTRL BD, LM, K7 58 L0705106-120 CNTRL BD, EXT, C+, A+ 59 L0705006-120 CNTRL BD, EXT, C+, A+ 50 L0705006-120 CNTRL BD, EXT, SERIES MP SIGNAL 59 L0705106-120 CNTRL BD, EXT, SERIES MP SIGNAL 50 L0705106-120 CNTRL BD, EXT, SERIES MP SIGNAL 50 L0705106-120 CNTRL BD, EXT, SERIES MP SIGNAL 51 L0601300-000 CNTRL PNL, SERIES MP POWER 52 L0705106-120 CNTRL BD, EXT, SERIES MP POWER 53 L0601500-000 CNTRL PNL, SERIES MP POWER 54 L1600400-000 CNTRL PNL, SERIES MP POWER 55 L0700100-040 SHAFT, ADJ FEMALE .040 HSG #2,55 L02000100-040 SHAFT, ADJ FEMALE .040 HSG #2,55 L02000100-040 SHAFT, ADJ FEMALE .040 HSG #2,55 L02000100-040 SHAFT, ADJ FEMALE .040 HSG #2,55 L0200100-040 SHAFT, ADJ FEMALE .040 HSG #2,55	52	L0709302-220	CNTRL BD EXT/STOP LVH7, LP/LVH8	230V
150				115V
52 L0700902-200 CNTRL BD, 4-20MA/STOP, H 230V 52 L0709201-220 CNTRL BD, 4-20MA/STP, LVH7, LP/LVH£ 115V 52 L0709202-220 CNTRL BD, 4-20MA/STP, LVH7, LP/LVH£ 230V 52 L0701900-150 CNTRL BD, 4-5 DC 52 L9906500-000 CNTRL BD, 6-5 SIZE SING FUNC 115V 52 L9906600-000 CNTRL BD, 0, 5 SIZE SING FUNC 230V 52 L9906201-000 CNTRL BD, 0, 5 SIZE SING FUNC 230V 52 L9906201-000 CNTRL BD, C+, A+ 115V 52 L9906201-000 CNTRL BD, C+, A+ 230V 52 L0702701-125 CNTRL BD, LMA, B, C, D, E/K2, 3 SIGNAL RELAY 115V 52 L0702702-125 CNTRL BD, LMA, B, C, D, E/K2, 3 SIGNAL RELAY 230V 52 L0702901-125 CNTRL BD, LMA, B, C, D, E/K2, 3 POWER RELAY 115V 52 L0702902-125 CNTRL BD, LMA, B, C, D, E/K2, 3 POWER RELAY 230V 52 L0703801-150 CNTRL BD, LMF, G, K5 SIGNAL RELAY 115V 52 L0703701-150 CNTRL BD, LMF, G, K5 SIGNAL RELAY 230V 52 L0703702-150 CNTRL BD, LMF, G, K5 POWER RELAY 115V 52 L0703702-150 CNTRL BD, LMF, G, K5 POWER RELAY 115V 52 L0703702-150 CNTRL BD, LMF, G, K5 POWER RELAY 230V 52 L0703001-190 CNTRL BD, LMF, G, K5 POWER RELAY 115V 52 L0702802-190 CNTRL BD, LMH, K7 Signal Relay 115V 52 L0703002-190 CNTRL BD, LMH, K7 Signal Relay 230V 52 L0705066-120 CNTRL BD, LMH, K7 Signal Relay 230V 52 L0705066-120 CNTRL BD, LMH, K7 Signal Relay 230V 53 L0601500-000 CNTRL BD, EMT, SERIES MP SIGNAL, H & K7 53 L0601400-000 CNTRL BD, EXT, C+, A+ 230V 53 L0601200-000 CNTRL BD, EXT, C+, A+ 230V 53 L0601300-000 CNTRL BD, EXT, C+, A+ 230V 53 L0601300-000 CNTRL BD, EXT, C+, A+ 230V 53 L0601300-000 CNTRL BD, EXT, C+, A+ 230V 53 L0601500-000 CNTRL BD, EXT, C+, A+ 230V 54 L1600400-000 CNTRL PNL, SERIES MP POWER H & K7 53 L0601600-000 CNTRL PNL, SERIES MP POWER, H & K7 53 L0601600-000 CNTRL PNL, SERIES MP POWER, H & K7 54 L1600500-000 CNTRL PNL, SERIES MP POWER, H & K7 55 L2000100-040 SHAFT, ADJ FEMALE .040 HSG #2,55 L2000100-040 SHAFT, ADJ FEMALE .080	_			230V
52 L0709201-220 CNIRL BD, 4-20MA/STP, LVH7, LP/LVHK 115V 52 L0709202-220 CNIRL BD, 4-20MA/STP, LVH7, LP/LVHK 230V 52 L0701900-150 CNIRL BD, 6- DC 52 L0906500-000 CNIRL BD, 0, 5 SIZE SING FUNC 115V 52 L9906201-000 CNIRL BD, 0, 5 SIZE SING FUNC 230V 52 L9906201-000 CNIRL BD, C+, A+ 115V 52 L9906202-000 CNIRL BD, C+, A+ 230V 52 L0702701-125 CNIRL BD, LMA, B, C, D, E/K2, 3 SIGNAL RELAY 115V 52 L0702702-125 CNIRL BD, LMA, B, C, D, E/K2, 3 SIGNAL RELAY 230V 52 L0702901-125 CNIRL BD, LMA, B, C, D, E/K2, 3 POWER RELAY 230V 52 L0702901-125 CNIRL BD, LMA, B, C, D, E/K2, 3 POWER RELAY 115V 52 L0703801-150 CNIRL BD, LMA, B, C, D, E/K2, 3 POWER RELAY 115V 52 L0703701-150 CNIRL BD, LMF, G, K5 SIGNAL RELAY 115V 52 L0703701-150 CNIRL BD, LMF, G, K5 SIGNAL RELAY 115V 52 L0703702-150 CNIRL BD, LMF, G, K5 SIGNAL RELAY 115V 52 L0703702-150 CNIRL BD, LMF, G, K5 52 L0703702-150 CNIRL BD, LMF, G, K5 52 L0703801-190 CNIRL BD, LMF, G, K5 52 L0702802-190 CNIRL BD, LMH, K7 Signal Relay 115V 52 L0703002-190 CNIRL BD, LMH, K7 Signal Relay 230V 52 L0705016-120 CNIRL BD, LMH, K7 Signal Relay 230V 52 L0705016-120 CNIRL BD, LMH, K7 Signal Relay 230V 53 L0601400-000 CNIRL BD, EXT, C+, A+ 230V 54 L0705110-120 CNIRL BD, EXT, C+, CLC54) 230V 53 L0601500-000 CNIRL BD, EXT, C+, CLC54) 230V 53 L0601500-000 CNIRL BD, EXT, C+, CLC54) 230V 54 L1600400-000 CNIRL PNL, SERIES MP SIGNAL 55 L0000100-040 SHAFT, ADJ FEMALE .040 HSG #2, 55 L2000100-040 SHAFT, AD				
52 L0709202-220 CNTRL BD, 4-20MA/STP, LVH7, LP/LVH€ 230V 52 L0701900-150 CNTRL BD, E - DC 52 L9906500-000 CNTRL BD, 0, 5 SIZE SING FUNC 230V 52 L9906600-000 CNTRL BD, C+, A+ 115V 52 L9906201-000 CNTRL BD, C+, A+ 230V 52 L0702701-125 CNTRL BD, LMA, B, C, D, E/K2, 3 SIGNAL RELAY 115V 52 L0702702-125 CNTRL BD, LMA, B, C, D, E/K2, 3 SIGNAL RELAY 230V 52 L0702901-125 CNTRL BD, LMA, B, C, D, E/K2, 3 SIGNAL RELAY 115V 52 L0702901-125 CNTRL BD, LMA, B, C, D, E/K2, 3 POWER RELAY 230V 52 L0702901-125 CNTRL BD, LMA, B, C, D, E/K2, 3 POWER RELAY 115V 52 L0703801-150 CNTRL BD, LMA, B, C, D, E/K2, 3 POWER RELAY 230V 52 L0703701-150 CNTRL BD, LMF, G, K5 SIGNAL RELAY 115V 52 L0703702-150 CNTRL BD, LMF, G, K5 POWER RELAY 230V 52 L0703702-150 CNTRL BD, LMF, G, K5 POWER RELAY 115V 52 L0703702-150 CNTRL BD, LMF, G, K5 POWER RELAY 115V 52 L0703701-150 CNTRL BD, LMF, G, K5 POWER RELAY 115V 52 L0703001-190 CNTRL BD, LMF, G, K5 POWER RELAY 230V 52 L0702801-190 CNTRL BD, LMH, K7 Signal Relay 115V 52 L0703002-190 CNTRL BD, LMH, K7 Signal Relay 230V 52 L0705106-120 CNTRL BD, LMH, K7 POWER RELAY 115V 52 L0705006-120 CNTRL BD, EXT, C+, A+ 230V 53 L0601200-000 CNTRL BD, EXT, C+, A+ 230V 53 L0601200-000 CNTRL BD, EXT, SERIES C 230V 53 L0601200-000 CNTRL BD, EXT, CH, A+ 230V 53 L0601500-000 CNTRL PNL, SERIES MP SIGNAL 54 L1600400-000 CNTRL PNL, SERIES MP SIGNAL 55 L0000100-040 SHAFT, ADJ FEMALE .040 HSG #2,55 L2000100-040 SHAFT, ADJ FEMALE .040 HSG #2,55				
52 L0701900-150 CNTRL BD, E - DC 52 L9906500-000 CNTRL BD, 0, 5 SIZE SING FUNC 52 L9906600-000 CNTRL BD, 0, 5 SIZE SING FUNC 52 L9906201-000 CNTRL BD, C, 5 A+ 52 L9906202-000 CNTRL BD, C+, A+ 52 L9906202-000 CNTRL BD, C+, A+ 52 L0702701-125 CNTRL BD, LMA, B, C, D, E/K2, 3 SIGNAL RELAY 52 L0702702-125 CNTRL BD, LMA, B, C, D, E/K2, 3 SIGNAL RELAY 52 L0702901-125 CNTRL BD, LMA, B, C, D, E/K2, 3 POWER RELAY 52 L0702902-125 CNTRL BD, LMA, B, C, D, E/K2, 3 POWER RELAY 52 L0703801-150 CNTRL BD, LMA, B, C, D, E/K2, 3 POWER RELAY 52 L0703802-150 CNTRL BD, LMF, G, K5 SIGNAL RELAY 52 L0703701-150 CNTRL BD, LMF, G, K5 SIGNAL RELAY 52 L0703701-150 CNTRL BD, LMF, G, K5 SIGNAL RELAY 52 L0703701-150 CNTRL BD, LMF, G, K5 POWER RELAY 52 L0703702-150 CNTRL BD, LMF, G, K5 SIGNAL RELAY 52 L0703702-150 CNTRL BD, LMF, G, K5 POWER RELAY 52 L0703702-150 CNTRL BD, LMF, G, K5 POWER RELAY 52 L0703701-190 CNTRL BD, LMF, G, K5 52 L0702801-190 CNTRL BD, LMH, K7 Signal Relay 52 L0703001-190 CNTRL BD, LMH, K7 Signal Relay 52 L0703001-190 CNTRL BD, LMH, K7 52 L0703001-190 CNTRL BD, LMH, K7 T15V T20000001-190 CNTRL BD, LMH, K7 T15V T2000000000 CNTRL BD, LMH, K7 T20000000000 CNTRL BD, EXT, C+, A+ T15V T2000000000 CNTRL BD, EXT, C+, C+ T2000000000 CNTRL PNL, SERIES MP SIGNAL T200000000 CNTRL PNL, SERIES MP SIGNAL T200000000 CNTRL PNL, SERIES MP POWER T20000000 CNTRL PNL, SERIES MP POWER T200000000 CNTRL PNL, SERIES MP POWER T2000000000 CNTRL PNL, SERIES MP POWER T2000000000 CNTRL PNL, SER			CNTRL BD, 4-20MA/STP, LVH7, LP/LVH8	115V
52 L9906500-000 CNTRL BD, 0, 5 SIZE SING FUNC 230V 52 L9906600-000 CNTRL BD, 0, 5 SIZE SING FUNC 230V 52 L9906201-000 CNTRL BD, C+, A+ 115V 52 L0702701-125 CNTRL BD, EM A, B, C, D, E/K2, 3 SIGNAL RELAY 115V 52 L0702702-125 CNTRL BD, LM A, B, C, D, E/K2, 3 SIGNAL RELAY 230V 52 L0702901-125 CNTRL BD, LM A, B, C, D, E/K2, 3 SIGNAL RELAY 230V 52 L0702901-125 CNTRL BD, LM A, B, C, D, E/K2, 3 POWER RELAY 230V 52 L0702901-125 CNTRL BD, LM A, B, C, D, E/K2, 3 POWER RELAY 230V 52 L0703801-150 CNTRL BD, LM A, B, C, D, E/K2, 3 POWER RELAY 230V 52 L0703802-150 CNTRL BD, LM F, G, K5 SIGNAL RELAY 115V 52 L0703701-150 CNTRL BD, LM F, G, K5 SIGNAL RELAY 230V 52 L0703701-150 CNTRL BD, LM F, G, K5 SIGNAL RELAY 230V 52 L0703701-150 CNTRL BD, LM F, G, K5 POWER RELAY 115V 52 L0703702-150 CNTRL BD, LM F, G, K5 POWER RELAY 115V 52 L0703702-150 CNTRL BD, LM F, G, K5 POWER RELAY 115V 52 L0703702-150 CNTRL BD, LM F, G, K5 POWER RELAY 115V 52 L0703702-150 CNTRL BD, LM F, K7 Signal Relay 115V 52 L0703702-150 CNTRL BD, LM F, K7 Signal Relay 115V 52 L0703702-190 CNTRL BD, LM H, K7 Signal Relay 230V 52 L0703001-190 CNTRL BD, LM H, K7 Signal Relay 230V 52 L0705006-120 CNTRL BD, LM H, K7 Signal Relay 230V 52 L0705106-120 CNTRL BD, EM F, G, K5 POWER RELAY 230V 53 L0601400-000 CNTRL BD, EXT, C+, A+ 230V 53 L0601500-000 CNTRL BD, EXT, C+, A+ 230V 53 L0601500-000 CNTRL BD, EXT, SERIES MP SIGNAL, H & K7 53 L0601500-000 CNTRL PNL, SERIES MP SIGNAL, H & K7 53 L0601500-000 CNTRL PNL, SERIES MP POWER, H & K7 53 L0601500-000 CNTRL PNL, SERIES MP POWER, H & K7 53 L0601500-000 CNTRL PNL, SERIES MP POWER, H & K7 55 L2000100-040 SHAFT, ADJ FEMALE.040 HSG #2,5 55 L2000100-040 SHAFT, ADJ FE				230 V
52 L9906600-000 CNTRL BD, 0, 5 SIZE SING FUNC 52 L9906201-000 CNTRL BD, C+, A+ 52 L9906202-000 CNTRL BD, C+, A+ 52 L0702701-125 CNTRL BD, LM A, B, C, D, E/K2, 3 SIGNAL RELAY 52 L0702702-125 CNTRL BD, LM A, B, C, D, E/K2, 3 SIGNAL RELAY 52 L0702901-125 CNTRL BD, LM A, B, C, D, E/K2, 3 SIGNAL RELAY 52 L0702902-125 CNTRL BD, LM A, B, C, D, E/K2, 3 POWER RELAY 52 L0703801-150 CNTRL BD, LM A, B, C, D, E/K2, 3 POWER RELAY 52 L0703802-150 CNTRL BD, LM F, G, K5 SIGNAL RELAY 52 L0703701-150 CNTRL BD, LM F, G, K5 SIGNAL RELAY 52 L0703702-150 CNTRL BD, LM F, G, K5 POWER RELAY 53 L0703702-150 CNTRL BD, LM F, G, K5 CNTRL BD, LM F, G, K5 SIGNAL RELAY 54 L0703702-150 CNTRL BD, LM F, G, K5 CNTRL BD, LM F, G, K5 SIGNAL RELAY 55 L0703702-150 CNTRL BD, LM F, G, K5 POWER RELAY 55 L0703702-150 CNTRL BD, LM F, G, K5 POWER RELAY 55 L0703702-150 CNTRL BD, LM F, G, K5 SIGNAL RELAY 56 L0703702-150 CNTRL BD, LM F, G, K5 SIGNAL RELAY 57 L0703702-150 CNTRL BD, LM F, G, K5 SIGNAL RELAY 58 L0703702-150 CNTRL BD, LM F, G, K5 SIGNAL RELAY 59 L0703702-100 CNTRL BD, LM F, G, K5 SIGNAL RELAY 50 L0703701-190 CNTRL BD, LM F, G, K5 SIGNAL RELAY 50 L0703701-190 CNTRL BD, LM F, G, K5 SIGNAL RELAY 50 L0703701-190 CNTRL BD, LM F, G, K5 SIGNAL RELAY 50 L0703701-190 CNTRL BD, LM F, G, K5 SIGNAL RELAY 50 L0703701-190 CNTRL BD, LM F, G, K5 SIGNAL RELAY 50 L0703701-190 CNTRL BD, LM F, G, K5 SIGNAL RELAY 51 L0703701-190 CNTRL BD, EXT, SERIES C SIGNAL RELAY 51 L0705706-120 CNTRL BD, EXT, SERIES C SIGNAL RELAY SI				115\/
52 L9906201-000 CNTRL BD, C+, A+ 230V 52 L0906202-000 CNTRL BD, C+, A+ 230V 52 L0702701-125 CNTRL BD, LM A, B, C, D, E/K2, 3 SIGNAL RELAY 115V 52 L0702702-125 CNTRL BD, LM A, B, C, D, E/K2, 3 SIGNAL RELAY 230V 52 L0702901-125 CNTRL BD, LM A, B, C, D, E/K2, 3 POWER RELAY 115V 52 L0702902-125 CNTRL BD, LM A, B, C, D, E/K2, 3 POWER RELAY 230V 52 L0703801-150 CNTRL BD, LM F, G, K5 SIGNAL RELAY 230V 52 L0703802-150 CNTRL BD, LM F, G, K5 SIGNAL RELAY 230V 52 L0703701-150 CNTRL BD, LM F, G, K5 POWER RELAY 115V 52 L0703702-150 CNTRL BD, LM F, G, K5 POWER RELAY 115V 52 L0702801-190 CNTRL BD, LM F, G, K5 POWER RELAY 230V 52 L0703802-190 CNTRL BD, LM H, K7 Signal Relay 115V 52 L0703001-190 CNTRL BD, LM H, K7 Signal Relay 230V 52 L0703001-190 CNTRL BD, LM H, K7 Signal Relay 115V 52 L0703001-190 CNTRL BD, LM H, K7 Signal Relay 230V 52 L0703001-190 CNTRL BD, LM H, K7 Signal Relay 230V 52 L0703001-190 CNTRL BD, LM H, K7 Signal Relay 230V 52 L0703001-190 CNTRL BD, LM H, K7 Signal Relay 230V 52 L0703001-190 CNTRL BD, LM H, K7 Signal Relay 230V 52 L0703001-190 CNTRL BD, LM H, K7 POWER RELAY 115V 52 L0703001-190 CNTRL BD, EXT, C+, A+ 230V 52 L0705106-120 CNTRL BD, EXT, C+, A+ 230V 53 L0601300-000 CNTRL BD, EXT, C (LC54) 230V 53 L0601400-000 CNTRL BD, EXT, SERIES MP SIGNAL 14 K7 53 L0601500-000 CNTRL PNL, SERIES MP SIGNAL 15 CONTRL BD, EXT, C (LC54) 230V 54 L1600400-000 CNTRL PNL, SERIES MP POWER 15 L0601500-000 CNTRL PNL, SERIES MP POWER 15 L0601500-000 CNTRL PNL, SERIES MP POWER 15 L0601600-000 CNTRL PNL, SERIES MP SIGNAL 15 CNTRL PNL SERIES MP SIGNAL 15 CNTRL PNL SERIES MP SIGNAL 15 CNTRL PNL SERIES MP SIG	-			230V
52 L9906202-000 CNTRL BD, C+, A+ 230V				115V
52 L0702701-125 CNTRL BD, LMA, B, C, D, E/K2, 3 115V 52 L0702702-125 CNTRL BD, LMA, B, C, D, E/K2, 3 230V 52 L0702901-125 CNTRL BD, LMA, B, C, D, E/K2, 3 230V 52 L0702902-125 CNTRL BD, LMA, B, C, D, E/K2, 3 230V 52 L0703801-150 CNTRL BD, LMA, B, C, D, E/K2, 3 230V 52 L0703802-150 CNTRL BD, LMA, B, C, D, E/K2, 3 230V 52 L0703802-150 CNTRL BD, LMA, B, C, B, E/K2, 3 230V 52 L0703701-150 CNTRL BD, LMA, B, C, B, S 115V 52 L0703701-150 CNTRL BD, LMA, C, KS 230V 52 L0703702-150 CNTRL BD, LMA, C, KS 115V 52 L0703702-150 CNTRL BD, LMA, K, G, KS 230V 52 L0703702-150 CNTRL BD, LMA, K, Signal Relay 115V 52 L0702801-190 CNTRL BD, LMH, K, TSignal Relay 115V 52 L0703001-190 CNTRL BD, LMH, K, T 115V 52 L0703002-190 CNTRL BD, EXT, C+, A+ 230V			CNTRL BD, C+, A+	230V
SIGNAL RELAY				
SIGNAL RELAY 230V				115V
S2 L0702901-125 CNTRL BD, LM A, B, C, D, E/K2, 3 POWER RELAY P	52	L0702702-125		
POWER RELAY			SIGNAL RELAY	230V
52 L0702902-125 CNTRL BD, LM A, B, C, D, E/K2, 3 52 L0703801-150 CNTRL BD, LM F, G, K5 52 L0703802-150 CNTRL BD, LM F, G, K5 52 L0703701-150 CNTRL BD, LM F, G, K5 52 L0703702-150 CNTRL BD, LM F, G, K5 52 L0703702-150 CNTRL BD, LM F, G, K5 FOWER RELAY 230V 52 L0703702-150 CNTRL BD, LM F, G, K5 POWER RELAY 230V 52 L0702801-190 CNTRL BD, LM H, K7 Signal Relay 230V 52 L0702802-190 CNTRL BD, LM H, K7 Signal Relay 230V 52 L0703001-190 CNTRL BD, LM H, K7 115V 52 L0703002-190 CNTRL BD, LM H, K7 115V 52 L0703002-190 CNTRL BD, EM H, K7 230V 52 L0705006-120 CNTRL BD, EXT, C+, A+ 230V 52 L0705106-120 CNTRL BD, EXT, C+, A+ 230V 52 L0705110-120 CNTRL BD, EXT, SERIES MP SIGNAL, H & K7 53 53 L0601200-000 <td< td=""><td>52</td><td>L0702901-125</td><td>CNTRL BD, LMA, B, C, D, E/K2, 3</td><td></td></td<>	52	L0702901-125	CNTRL BD, LMA, B, C, D, E/K2, 3	
POWER RELAY 230\		1.0700000 105		115V
52 L0703801-150 CNTRL BD, LM F, G, K5 SIGNAL RELAY 115V 52 L0703802-150 CNTRL BD, LM F, G, K5 SIGNAL RELAY 230V 52 L0703701-150 CNTRL BD, LM F, G, K5 POWER RELAY 115V 52 L0703702-150 CNTRL BD, LM F, G, K5 POWER RELAY 115V 52 L0702801-190 CNTRL BD, LM H, K7 Signal Relay 115V 52 L0702802-190 CNTRL BD, LM H, K7 Signal Relay 230V 52 L0703001-190 CNTRL BD, LM H, K7 Signal Relay 115V 52 L0703001-190 CNTRL BD, LM H, K7 Signal Relay 230V 52 L0703002-190 CNTRL BD, LM H, K7 Signal Relay 115V 52 L0703002-190 CNTRL BD, LM H, K7 Signal Relay 230V 52 L0705106-120 CNTRL BD, EM H, K7 Signal Relay 115V 52 L0705106-120 CNTRL BD, EXT, C+, A+ 230V 52 L0705106-120 CNTRL BD, EXT, C+, A+ 230V 53 L0601200-000 CNTRL BD, EXT, SERIES C 230V 53 L0601200-000 CNTRL PNL, SERIES MP SIGNAL, H & K7 53 L0601300-000 CNTRL PNL, SERIES MP SIGNAL 53 L0601500-000 CNTRL PNL, SERIES MP POWER 54 L1600400-000 CNTRL PNL, SERIES MP POWER, H & K7 55 L2000100-040 SHAFT, ADJ FEMALE .040 HSG #2,55 L2000100-080 SHAFT, ADJ FEMALE .080	52	LU702902-125		00017
SIGNAL RÉLAY		1.0702004.450	_	2307
52 L0703802-150 CNTRL BD, LM F, G, K5 230V 52 L0703701-150 CNTRL BD, LM F, G, K5 115V 52 L0703702-150 CNTRL BD, LM F, G, K5 230V 52 L0702801-190 CNTRL BD, LM H, K7 Signal Relay 115V 52 L0702802-190 CNTRL BD, LM H, K7 Signal Relay 230V 52 L0703001-190 CNTRL BD, LM H, K7 115V 52 L0703002-190 CNTRL BD, LM H, K7 115V 52 L0703002-190 CNTRL BD, EM H, K7 230V 52 L0705006-120 CNTRL BD, EXT, C+, A+ 230V 52 L0705106-120 CNTRL BD, EXT, SERIES C 230V 52 L0705110-120 CNTRL BD, EXT, C (LC54) 230V 53 L0601200-000 CNTRL PNL, SERIES MP SIGNAL 31 53 L0601400-000 CNTRL PNL, SERIES MP POWER 53 53 L0601500-000 CNTRL PNL, SERIES MP POWER 54 54 L1600400-000 CNTRL PNL, SERIES MP POWER, H & K7 55 54 L1600500-000	SZ	LU7U38U1-15U		115\/
SIGNAL RÉLAY 230V	52	1 0703802-150		1101
52 L0703701-150 CNTRL BD, LM F, G, K5 FOWER RELAY 115V 52 L0703702-150 CNTRL BD, LM F, G, K5 POWER RELAY 230V 52 L0702801-190 CNTRL BD, LM H, K7 Signal Relay 115V 52 L0702802-190 CNTRL BD, LM H, K7 Signal Relay 230V 52 L0703001-190 CNTRL BD, LM H, K7 115V 52 L0703002-190 CNTRL BD, LM H, K7 115V 52 L0703002-190 CNTRL BD, LM H, K7 230V 52 L0705006-120 CNTRL BD, EXT, C+, A+ 230V 52 L0705106-120 CNTRL BD, EXT, SERIES C 230V 52 L0705110-120 CNTRL BD, EXT, C+, A+ 230V 52 L0705110-120 CNTRL BD, EXT, SERIES MP SIGNAL, H & K7 53 L0601200-000 CNTRL PNL, SERIES MP SIGNAL 53 L0601300-000 CNTRL PNL, SERIES MP POWER 53 L0601500-000 CNTRL PNL, SERIES MP POWER 53 L0601600-000 CNTRL PNL, SERIES MP POWER 54 L1600400-000 <td>٥2</td> <td>_0,0000Z-100</td> <td>, , , -, -</td> <td>230\/</td>	٥2	_0,0000Z-100	, , , -, -	230\/
POWER RELAY	52	L0703701-150		2001
52 L0703702-150 CNTRL BD, LM F, G, K5 FOWER RELAY 230V 52 L0702801-190 CNTRL BD, LM H, K7 Signal Relay 115V 52 L0702802-190 CNTRL BD, LM H, K7 Signal Relay 230V 52 L0703001-190 CNTRL BD, LM H, K7 115V 52 L0703002-190 CNTRL BD, LM H, K7 230V 52 L0705006-120 CNTRL BD, EXT, C+, A+ 230V 52 L0705106-120 CNTRL BD, EXT, SERIES C 230V 52 L0705106-120 CNTRL BD, EXT, SERIES MP SIGNAL, H & K7 53 L0601200-000 CNTRL PNL, SERIES MP SIGNAL 53 L0601300-000 CNTRL PNL, SERIES MP POWER 53 L0601400-000 CNTRL PNL, SERIES MP POWER 53 L0601600-000 CNTRL PNL, SERIES MP POWER, H & K7 53 L0601600-000 CNTRL PNL, SERIES MP POWER, H & K7 53 L0601600-000 CNTRL PNL, SERIES MP POWER, H & K7 54 L1600400-000 DUST COVER, CONT PNL HSG #2, SERIES MP SIGNAL 55 L2000100-040 SHAFT, ADJ FEWALE .04		2.23.0.100		115V
POWER RELAY 230V	52	L0703702-150		. 10 V
52 L0702801-190 CNTRL BD, LM H, K7 Signal Relay 115V 52 L0702802-190 CNTRL BD, LM H, K7 Signal Relay 230V 52 L0703001-190 CNTRL BD, LM H, K7 115V 52 L0703002-190 CNTRL BD, LM H, K7 115V 52 L0705006-120 CNTRL BD, EXT, C+, A+ 230V 52 L0705106-120 CNTRL BD, EXT, SERIES C 230V 52 L0705110-120 CNTRL BD, EXT, C (LC54) 230V 53 L0601200-000 CNTRL BD, EXT, C (LC54) 230V 53 L0601300-000 CNTRL PNL, SERIES MP SIGNAL, H & K7 53 L0601400-000 CNTRL PNL, SERIES MP POWER 53 L0601500-000 CNTRL PNL, SERIES MP POWER 53 L0601600-000 CNTRL PNL, SERIES MP POWER, H & K7 53 L0601500-000 CNTRL PNL, SERIES MP POWER, H & K7 54 L1600400-000 DUST COVER, CONT PNL HSG #2, 55 L2000100-040 SHAFT, ADJ FEMALE .040 HSG #2, 55 L2000100-080 SHAFT, ADJ FEMALE .080 HSG #2,				230V
52 L0703001-190 CNTRL BD, LM H, K7 POWER RELAY 115V 52 L0703002-190 CNTRL BD, LM H, K7 POWER RELAY 230V 52 L0705006-120 CNTRL BD, EXT, C+, A+ 230V 52 L0705106-120 CNTRL BD, EXT, SERIES C 230V 52 L0705110-120 CNTRL BD, EXT, C (LC54) 230V 53 L0601200-000 CNTRL BD, EXT, C (LC54) 230V 53 L0601300-000 CNTRL PNL, SERIES MP SIGNAL 53 L0601400-000 CNTRL PNL, SERIES MP POWER 53 L0601500-000 CNTRL PNL, SERIES MP POWER, H & K7 53 L0601600-000 CNTRL PNL, SERIES MP POWER, H & K7 54 L1600400-000 DUST COVER, CONT PNL 55 L2000100-040 SHAFT, ADJ FEMALE .040 HSG #2, 55 L2000100-080 SHAFT, ADJ FEMALE .080				115V
POWER RELAY 115V 52 L0703002-190 CNTRL BD, LM H, K7 POWER RELAY 230V 52 L0705006-120 CNTRL BD, EXT, C+, A+ 230V 52 L0705106-120 CNTRL BD, EXT, C (LC54) 230V 52 L0705110-120 CNTRL BD, EXT, C (LC54) 230V 53 L0601200-000 CNTRL PNL, SERIES MP SIGNAL, H & K7 53 L0601300-000 CNTRL PNL, SERIES MP SIGNAL 53 L0601400-000 CNTRL PNL, SERIES MP POWER 53 L0601500-000 CNTRL PNL, SERIES MP POWER, H & K7 53 L0601600-000 CNTRL PNL, SERIES MP POWER, H & K7 54 L1600400-000 DUST COVER, CONT PNL HSG #2 54 L1600500-000 DUST COVER, CONT PNL HSG #2 55 L2000100-040 SHAFT, ADJ FEMALE .040 HSG #2, 55 L2000100-080 SHAFT, ADJ FEMALE .080				230V
52 L0703002-190 CNTRL BD, LM H, K7 POWER RELAY 52 L0705006-120 CNTRL BD, EXT, C+, A+ 52 L0705106-120 CNTRL BD, EXT, C+, A+ 52 L0705106-120 CNTRL BD, EXT, SERIES C 53 L0601200-000 CNTRL BD, EXT, C (LC54) 53 L0601200-000 CNTRL PNL, SERIES MP SIGNAL, H & K7 53 L0601300-000 CNTRL PNL, SERIES MP SIGNAL 53 L0601400-000 CNTRL PNL, SERIES MP POWER 54 L0601500-000 CNTRL PNL, SERIES MP POWER 55 L0601600-000 CNTRL PNL, SERIES MP POWER, H & K7 56 L1600400-000 DUST COVER, CONT PNL 57 L1600500-000 DUST COVER, CONT PNL 58 L2000100-040 SHAFT, ADJ FEMALE .040 HSG #2, 55 L2000100-080 SHAFT, ADJ FEMALE .080	52	L0703001-190		115V
POWER RELAY 230V		1.0700000 101		115V
52 L0705006-120 CNTRL BD, EXT, C+, A+ 230V 52 L0705106-120 CNTRL BD, EXT, SERIES C 230V 52 L0705110-120 CNTRL BD, EXT, SERIES C 230V 53 L0601200-000 CNTRL BD, EXT, C (LC54) 230V 53 L0601300-000 CNTRL PNL, SERIES MP SIGNAL, H & K7 53 L0601400-000 CNTRL PNL, SERIES MP POWER 53 L0601500-000 CNTRL PNL, SERIES MP POWER, H & K7 53 L0601600-000 CNTRL PNL, SERIES MP POWER, H & K7 54 L1600400-000 DUST COVER, CONT PNL HSG #2 54 L1600500-000 DUST COVER, CONT PNL HSG #2 55 L2000100-040 SHAFT, ADJ FEMALE .040 HSG #2,55 L2000100-080 SHAFT, ADJ FEMALE .080	52	L0703002-190		0001
52 L0705106-120 CNTRL BD, EXT, SERIES C 230V 52 L0705110-120 CNTRL BD, EXT, C (LC54) 230V 53 L0601200-000 CNTRL PNL, SERIES MP SIGNAL, H & K7 53 L0601300-000 CNTRL PNL, SERIES MP POWER 53 L0601500-000 CNTRL PNL, SERIES MP POWER 53 L0601600-000 CNTRL PNL, SERIES MP POWER, H & K7 53 L0601600-000 CNTRL PNL (ALL H & K7 PUMPS) 54 L1600400-000 DUST COVER, CONT PNL HSG #2 55 L2000100-040 SHAFT, ADJ FEMALE .040 HSG #2,55 L2000100-080 SHAFT, ADJ FEMALE .080	E	1.0705000 100		
52 L0705110-120 CNTRL BD, EXT, C (LC54) 230V 53 L0601200-000 CNTRL PNL, SERIES MP SIGNAL, H & K7 53 L0601300-000 CNTRL PNL, SERIES MP SIGNAL 53 L0601400-000 CNTRL PNL, SERIES MP POWER 53 L0601500-000 CNTRL PNL, SERIES MP POWER, H & K7 53 L0601600-000 CNTRL PNL, SERIES MP POWER, H & K7 54 L1600400-000 DUST COVER, CONT PNL HSG #3 54 L1600500-000 DUST COVER, CONT PNL HSG #3 55 L2000100-040 SHAFT, ADJ FEWALE .040 HSG #2,55 L2000100-080 SHAFT, ADJ FEWALE .080 HSG #2,3			IONIKL BU, EXI, C+, A+	
53 L0601200-000 CNTRL PNL, SERIES MP SIGNAL, H & K7 53 L0601300-000 CNTRL PNL, SERIES MP SIGNAL 53 L0601400-000 CNTRL PNL, SERIES MP POWER 53 L0601500-000 CNTRL PNL, SERIES MP POWER, H & K7 53 L0601600-000 CNTRL PNL (ALL H & K7 PUMPS) 54 L1600400-000 DUST COVER, CONT PNL HSG #2 54 L1600500-000 DUST COVER, CONT PNL HSG #2 55 L2000100-040 SHAFT, ADJ FEMALE .040 HSG #2, 55 L2000100-080 SHAFT, ADJ FEMALE .080 HSG #2,			CNTRL BD, EAT, SERIES C	
53 L0601300-000 CNTRL PNL, SERIES MP SIGNAL 53 L0601400-000 CNTRL PNL, SERIES MP POWER 53 L0601500-000 CNTRL PNL, SERIES MP POWER, H & K7 53 L0601600-000 CNTRL PNL (ALL H & K7 PUMPS) 54 L1600400-000 DUST COVER, CONT PNL HSG #2 54 L1600500-000 DUST COVER, CONT PNL HSG #2 55 L2000100-040 SHAFT, ADJ FEMALE .040 HSG #2, 55 L2000100-080 SHAFT, ADJ FEMALE .080 HSG #2,			CNTRE PNESERIES MP SIGNAL H & K7	2307
53 L0601400-000 CNTRL PNL, SERIES MP POWER 53 L0601500-000 CNTRL PNL, SERIES MP POWER, H & K7 53 L0601600-000 CNTRL PNL (ALL H & K7 PUMPS) 54 L1600400-000 DUST COVER, CONT PNL HSG #2 54 L1600500-000 DUST COVER, CONT PNL HSG #2 55 L2000100-040 SHAFT, ADJ FEMALE .040 HSG #2 55 L2000100-080 SHAFT, ADJ FEMALE .080 HSG #2			CNTRI PNI SERIES MP SIGNAL	
53 L0601500-000 CNTRL PNL, SERIES MP POWER, H & K7 53 L0601600-000 CNTRL PNL (ALL H & K7 PUMPS) 54 L1600400-000 DUST COVER, CONT PNL HSG #2 54 L1600500-000 DUST COVER, CONT PNL HSG #2 55 L2000100-040 SHAFT, ADJ FEMALE .040 HSG #2 55 L2000100-080 SHAFT, ADJ FEMALE .080 HSG #2			ICNTRI PNI. SERIES MP POWER	
53 L0601600-000 CNTRL PNL (ALL H & K7 PUMPS) 54 L1600400-000 DUST COVER, CONT PNL HSG #3 54 L1600500-000 DUST COVER, CONT PNL HSG #2 55 L2000100-040 SHAFT, ADJ FEMALE .040 HSG #2,3 55 L2000100-080 SHAFT, ADJ FEMALE .080 HSG #2,3			CNTRL PNL SERIES MP POWER H & K7	
54 L1600400-000 DUST COVER, CONT PNL HSG #3 54 L1600500-000 DUST COVER, CONT PNL HSG #2 55 L2000100-040 SHAFT, ADJ FEMALE .040 HSG #2,3 55 L2000100-080 SHAFT, ADJ FEMALE .080 HSG #2,3				
54 L1600500-000 DUST COVER, CONT PNL HSG #2, 55 L2000100-040 SHAFT, ADJ FEMALE .040 HSG #2, 55 L2000100-080 SHAFT, ADJ FEMALE .080 HSG #2, 3				HSG #3
55 L2000100-040 SHAFT, ADJ FEMALE .040 HSG #2,5 L2000100-080 SHAFT, ADJ FEMALE .080 HSG #2,3				HSG #2
55 L2000100-080 SHAFT, ADJ FEMALE .080 HSG #2,3				HSG #2,3
LEEU 0000000 040 TOUNET A DIFFERENCE 040	55			1188
55 L2000200-040 SHAFT, ADJ FEMALE .040 HSG #*	55	L2000100-080	SHAFT, ADJ FEMALE .080	

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DRIVE END COMPONENTS

DRIVE END COMPONENTS

) Port No	Description	
No.	Part No. L2000200-080	Description ISHAFT. ADJ FEMALE .080	HSG #1
	L2000300-PBT		SG #2,3
	L2000300-1BT		HSG #1
	L1500100-EPB	O-RING, HSG #1/CONT PNL	1100 # 1
	L1500300-NTR	O-RING, HSG #2/CONT PNL	
	L1500500-NTR	O-RING, HSG #3/CONT PNL	
	L9900600-000	CONNECTOR, LIQUID TIGHT	
_	L9900700-000	CONNECTOR, STRAIN RELIEF	
	L9700300-000	CORD, POWER, SERIES C, E	125V
	L9700300-000	CORD, POWER, SERIES C, E	230V
		CORD, POWER, SERIES C, E	
	L9701200-000 L9701300-000		125V
_		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	CNTRL PNL SCREW	
	L1500800-NTR	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	KNOB MOUNTING SCREW	
	L1500900-NTR	GROMMET STROKE LENGTH	
81	L5000801-115	CNTRL PANEL ASSY,	4.5
<u></u>	1 5000001 00-	A-B-D-E SIZE SLDS	115V
81	L5000801-230	CNTRL PANEL ASSY,	
<u></u>		A-B-D-E SIZE SLDS	230V
81	L5000901-115	CNTRL PANEL ASSY, EXT/STOP,]
ب	1 =0000000	A-B-D-E SIZE SLDS	115V
81	L5000901-230	CNTRL PANEL ASSY, EXT/STOP,]
Ļ		A-B-D-E SIZE SLDS	230V
81	L5001001-115	CNTRL PANEL ASSY, 4-20MA/STOP,	,]
لـــا		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
_	L5001301-115	CNTRL PANEL ASSY, H SIZE SLD	115V
	L5001301-230	CNTRL PANEL ASSY, H SIZE SLD	230V
81	L5028500-115	CNTRL PANEL ASSY, LEH8	115V
81	L5028500-230	CNTRL PANEL ASSY, LEH8	230V
	L5028201-115	CNTRL PANEL ASSY, LVH7, LP/LVH8	115V
81	L5028200-230	CNTRL PANEL ASSY, LVH7, LP/LVH8	230V
81	L5001401-115	CNTRL PANEL ASSY, EXT/STOP,	
		H SIZE SLD	115V
81	L5001401-230	CNTRL PANEL ASSY, EXT/STOP,	
		H SIZE SLD	230V
α_{4}		CNTRL PANEL ASSY, EXT/STOP,	
δı	L5028301-115		
		LVH7, LP/LVH8	115V
	L5028301-115 L5028300-230	CNTRL PANEL ASSY, EXT/STOP,	115V
81	L5028300-230	CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8	115V 230V
81		CNTRL PANEL ASSY, EXT/STOP,	
81	L5028300-230 L5001501-115	CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V	
81	L5028300-230	CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP,	230V 115V
81 81	L5028300-230 L5001501-115 L5001501-230	CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD	230V
81 81	L5028300-230 L5001501-115	CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP,	230V 115V 230V
81 81 81	L5028300-230 L5001501-115 L5001501-230 L5028401-115	CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V	230V 115V
81 81 81	L5028300-230 L5001501-115 L5001501-230	CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V CNTRL PANEL ASSY, 4-20MA/STOP,	230V 115V 230V 115V
81 81 81 81	L5028300-230 L5001501-115 L5001501-230 L5028401-115 L5028401-230	CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8	230V 115V 230V
81 81 81 81	L5028300-230 L5001501-115 L5001501-230 L5028401-115	CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP,	230V 115V 230V 115V
81 81 81 81 81	L5028300-230 L5001501-115 L5001501-230 L5028401-115 L5028401-230 L5000100-012	CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14	230V 115V 230V 115V
81 81 81 81 81	L5028300-230 L5001501-115 L5001501-230 L5028401-115 L5028401-230 L5000100-012 L5000200-012	CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, E-DC SIZE 44	230V 115V 230V 115V 230V
81 81 81 81 81	L5028300-230 L5001501-115 L5001501-230 L5028401-115 L5028401-230 L5000100-012	CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, E-DC SIZE 44 CNTRL PANEL ASSY, SERIES E	230V 115V 230V 115V
81 81 81 81 81 81 81	L5028300-230 L5001501-115 L5001501-230 L5028401-115 L5028401-230 L5000100-012 L5000200-012 L5000100-115	CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, E-DC SIZE 44 CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD	230V 115V 230V 115V 230V
81 81 81 81 81 81 81	L5028300-230 L5001501-115 L5001501-230 L5028401-115 L5028401-230 L5000100-012 L5000200-012	CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, E-DC SIZE 44 CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, SERIES E	230V 115V 230V 115V 230V
81 81 81 81 81 81 81 81	L5028300-230 L5001501-115 L5001501-230 L5028401-115 L5028401-230 L5000100-012 L5000200-012 L5000100-115 L5000100-230	CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, E-DC SIZE 44 CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD	230V 115V 230V 115V 230V 115V 230V
81 81 81 81 81 81 81 81	L5028300-230 L5001501-115 L5001501-230 L5028401-115 L5028401-230 L5000100-012 L5000200-012 L5000100-115 L5000100-230 L5000200-115	CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, E-DC SIZE 44 CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, 3-4 SIZE SLDS	230V 115V 230V 115V 230V 115V 230V
81 81 81 81 81 81 81 81 81 81	L5028300-230 L5001501-115 L5001501-230 L5028401-115 L5028401-230 L5000100-012 L5000200-012 L5000100-115 L5000200-115 L5000200-115 L5000200-230	CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 15V CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, E-DC SIZE 44 CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, 3-4 SIZE SLDS CNTRL PANEL ASSY, 3-4 SIZE SLDS	230V 115V 230V 115V 230V 115V 230V
81 81 81 81 81 81 81 81 81 81	L5028300-230 L5001501-115 L5001501-230 L5028401-115 L5028401-230 L5000100-012 L5000200-012 L5000100-115 L5000100-230 L5000200-115	CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, E-DC SIZE 44 CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, 3-4 SIZE SLDS CNTRL PANEL ASSY, 3-4 ZISE SLDS	230V 115V 230V 115V 230V 115V 230V
81 81 81 81 81 81 81 81 81 81	L5028300-230 L5001501-115 L5001501-230 L5028401-115 L5028401-230 L5000100-012 L5000200-012 L5000100-230 L5000200-115 L5000200-230 L50002900-115	CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, 3-4 SIZE SLDS CNTRL PANEL ASSY, 3-4 ZISE SLDS CNTRL PANEL ASSY, 3-4 ZISE SLDS CNTRL PANEL ASSY, 3-4 ZISE SLDS CNTRL PANEL ASSY SIN-FUNC 0-SIZE SLD, 115V SERIES C	230V 115V 230V 115V 230V 115V 230V
81 81 81 81 81 81 81 81 81 81	L5028300-230 L5001501-115 L5001501-230 L5028401-115 L5028401-230 L5000100-012 L5000200-012 L5000100-115 L5000200-115 L5000200-115 L5000200-230	CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, 3-4 SIZE SLDS CNTRL PANEL ASSY SIN-FUNC 0-SIZE SLD, 115V SERIES C CNTRL PANEL ASSY SIN-FUNC	230V 115V 230V 115V 230V 115V 230V
81 81 81 81 81 81 81 81 81 81 81	L5028300-230 L5001501-115 L5001501-230 L5028401-115 L5028401-230 L5000100-012 L5000200-012 L5000100-115 L5000200-115 L5000200-115 L5000200-115 L50002900-130 L50002900-230	CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, 3-4 SIZE SLDS CNTRL PANEL ASSY, 3-4 ZISE SLDS CNTRL PANEL ASSY, 3-4 ZISE SLDS CNTRL PANEL ASSY, SIN-FUNC 0-SIZE SLD, 115V SERIES C CNTRL PANEL ASSY SIN-FUNC 0-SIZE SLD, 230V SERIES C	230V 115V 230V 115V 230V 115V 230V
81 81 81 81 81 81 81 81 81 81 81	L5028300-230 L5001501-115 L5001501-230 L5028401-115 L5028401-230 L5000100-012 L5000200-012 L5000100-230 L5000200-115 L5000200-230 L50002900-115	CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, 3-4 SIZE SLDS CNTRL PANEL ASSY, 3-4 ZISE SLDS CNTRL PANEL ASSY, 3-4 ZISE SLDS CNTRL PANEL ASSY, SERIES C CNTRL PANEL ASSY SIN-FUNC 0-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 0-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC	230V 115V 230V 115V 230V 115V 230V
81 81 81 81 81 81 81 81 81 81 81 81	L5028300-230 L5001501-115 L5001501-230 L5028401-230 L5028401-230 L5000100-012 L5000200-012 L5000100-230 L5000200-115 L5000200-115 L50002900-130 L50002900-115	CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, 3-4 SIZE SLDS CNTRL PANEL ASSY, 3-4 SIZE SLDS CNTRL PANEL ASSY, SIN-FUNC 0-SIZE SLD, 115V SERIES C CNTRL PANEL ASSY SIN-FUNC 0-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 115V SERIES C	230V 115V 230V 115V 230V 115V 230V
81 81 81 81 81 81 81 81 81 81 81 81	L5028300-230 L5001501-115 L5001501-230 L5028401-115 L5028401-230 L5000100-012 L5000200-012 L5000100-115 L5000200-115 L5000200-115 L5000200-115 L50002900-130 L50002900-230	CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, 3-4 SIZE SLDS CNTRL PANEL ASSY, 3-4 SIZE SLDS CNTRL PANEL ASSY, SIN-FUNC 0-SIZE SLD, 115V SERIES C CNTRL PANEL ASSY SIN-FUNC 0-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 115V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 115V SERIES C CNTRL PANEL ASSY SIN-FUNC	230V 115V 230V 115V 230V 115V 230V
81 81 81 81 81 81 81 81 81 81 81 81 81	L5028300-230 L5001501-115 L5001501-230 L5028401-230 L500200-012 L5000200-012 L5000100-115 L5000200-115 L5000200-115 L5000200-115 L5002900-230 L5002900-230 L5003000-115 L5003000-230	CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, 3-4 SIZE SLDS CNTRL PANEL ASSY, 3-4 SIZE SLDS CNTRL PANEL ASSY, 3-4 SIZE SLDS CNTRL PANEL ASSY SIN-FUNC 0-SIZE SLD, 115V SERIES C CNTRL PANEL ASSY SIN-FUNC 0-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 115V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C	230V 115V 230V 115V 230V 115V 230V
81 81 81 81 81 81 81 81 81 81 81 81 81	L5028300-230 L5001501-115 L5001501-230 L5028401-230 L5028401-230 L5000100-012 L5000200-012 L5000100-230 L5000200-115 L5000200-115 L50002900-130 L50002900-115	CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, 3-4 SIZE SLDS CNTRL PANEL ASSY, 3-4 ZISE SLDS CNTRL PANEL ASSY, SERIES C CNTRL PANEL ASSY SIN-FUNC 0-SIZE SLD, 115V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 130V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC	230V 115V 230V 115V 230V 115V 230V
81 81 81 81 81 81 81 81 81 81 81 81 81 8	L5028300-230 L5001501-115 L5001501-230 L5028401-230 L50028401-230 L5000100-012 L5000200-012 L5000200-115 L5000200-130 L5000200-130 L5000200-130 L5000200-130 L5000200-130 L5000200-230 L5000200-135 L5000200-230 L5000200-230	CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, 3-4 SIZE SLDS CNTRL PANEL ASSY, 3-4 SIZE SLDS CNTRL PANEL ASSY, SERIES C CNTRL PANEL ASSY SIN-FUNC 0-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 115V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 115V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C	230V 115V 230V 115V 230V 115V 230V
81 81 81 81 81 81 81 81 81 81 81 81 81 8	L5028300-230 L5001501-115 L5001501-230 L5028401-230 L500200-012 L5000200-012 L5000100-115 L5000200-115 L5000200-115 L5000200-115 L5002900-230 L5002900-230 L5003000-115 L5003000-230	CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, 3-4 SIZE SLDS CNTRL PANEL ASSY, 3-4 SIZE SLDS CNTRL PANEL ASSY, 3-4 SIZE SLDS CNTRL PANEL ASSY SIN-FUNC 0-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 115V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC	230V 115V 230V 115V 230V 115V 230V 115V 230V
81 81 81 81 81 81 81 81 81 81 81 81 81 8	L5028300-230 L5001501-115 L5001501-230 L50028401-115 L5028401-230 L5000100-012 L5000100-012 L5000100-115 L5000200-115 L5000200-115 L5002900-130 L5002900-130 L5003000-115 L5003000-115 L5003000-115 L5003000-115	CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, 3-4 SIZE SLDS CNTRL PANEL ASSY, 3-4 SIZE SLDS CNTRL PANEL ASSY, 3-4 SIZE SLDS CNTRL PANEL ASSY SIN-FUNC 0-SIZE SLD, 115V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIT PACE SIZE 54, SERIES C	230V 115V 230V 115V 230V 115V 230V
81 81 81 81 81 81 81 81 81 81 81 81 81 8	L5028300-230 L5001501-115 L5001501-230 L5028401-230 L50028401-230 L5000100-012 L5000200-012 L5000200-115 L5000200-130 L5000200-130 L5000200-130 L5000200-130 L5000200-130 L5000200-230 L5000200-135 L5000200-230 L5000200-230	CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, 3-4 SIZE SLDS CNTRL PANEL ASSY, 3-4 SIZE SLDS CNTRL PANEL ASSY SIN-FUNC 0-SIZE SLD, 115V SERIES C CNTRL PANEL ASSY SIN-FUNC 0-SIZE SLD, 15V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY EXT PACE SIZE 54, SERIES C CNTRL PANEL ASSY EXT PACE SIZE 54, SERIES C CNTRL PANEL ASSY, EXT/STOP	230V 115V 230V 115V 230V 115V 230V 115V 230V
81 81 81 81 81 81 81 81 81 81 81 81 81 8	L5028300-230 L5001501-115 L5001501-230 L5028401-230 L5028401-230 L5000100-012 L5000200-012 L5000100-115 L5000200-115 L5000200-115 L5000200-115 L5002900-230 L5003000-115 L5003000-230 L5011000-115 L5013000-115 L5013000-115	CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, 3-4 SIZE SLDS CNTRL PANEL ASSY, 3-4 SIZE SLDS CNTRL PANEL ASSY SIN-FUNC 0-SIZE SLD, 115V SERIES C CNTRL PANEL ASSY SIN-FUNC 0-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 250V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 250V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 250V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 250V SERIES C CNTRL PANEL ASSY SIT PACE SIZE 54, SERIES C CNTRL PANEL ASSY EXT PACE SIZE 54, SERIES C CNTRL PANEL ASSY, EXT/STOP K5	230V 115V 230V 115V 230V 115V 230V 115V 230V
81 81 81 81 81 81 81 81 81 81 81 81 81 8	L5028300-230 L5001501-115 L5001501-230 L50028401-115 L5028401-230 L5000100-012 L5000100-012 L5000100-115 L5000200-115 L5000200-115 L5002900-130 L5002900-130 L5003000-115 L5003000-115 L5003000-115 L5003000-115	CNTRL PANEL ASSY, EXT/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD, 115V CNTRL PANEL ASSY, 4-20MA/STOP, H SIZE SLD CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 115V CNTRL PANEL ASSY, 4-20MA/STOP, LVH7, LP/LVH8 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, E-DC SIZE 01, 13, 14 CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, SERIES E 0-1/SIZE SLD CNTRL PANEL ASSY, 3-4 SIZE SLDS CNTRL PANEL ASSY, 3-4 SIZE SLDS CNTRL PANEL ASSY SIN-FUNC 0-SIZE SLD, 115V SERIES C CNTRL PANEL ASSY SIN-FUNC 0-SIZE SLD, 15V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY SIN-FUNC 5-SIZE SLD, 230V SERIES C CNTRL PANEL ASSY EXT PACE SIZE 54, SERIES C CNTRL PANEL ASSY EXT PACE SIZE 54, SERIES C CNTRL PANEL ASSY, EXT/STOP	230V 115V 230V 115V 230V 115V 230V 115V 230V

lten	1	DRIVE END COMPONENTS	
No.		Description	
	L5003016-115	CNTRL PANEL ASSY, 4-20MA/STOP LPK5	115V
	L5003701-115	CNTRL PANEL ASSY, STD K SIZE SLD	115V
	L5003701-230	CNTRL PANEL ASSY, STD K SIZE SLD	230V
81	L5003801-115	CNTRL PANEL ASSY, EXT/STOP K SIZE SLD	115V
81	L5003801-230	CNTRL PANEL ASSY, EXT/STOP K SIZE SLD	230V
81	L5003903-115	CNTRL PANEL ASSY, 4-20MA/STOP K7	115V
81	L5003903-230	CNTRL PANEL ASSY, 4-20MA/STOP K7	230V
81	L5004100-115	CNTRL PANEL ASSY, SIN-FUNC SIZE 54, 115V SERIES C PLUS	
81	L5004100-230	CNTRL PANEL ASSY, SIN-FUNC SIZE 54, 230V SERIES C PLUS	
81	L5010800-230	CNTRL PANEL ASSY EXT PACE SIZE 02, 03, 04, C3, C4 SERIES A+/C+	230V
81	L5010900-230	CNTRL PANEL ASSY EXT PACE SIZE 54, 64 SERIES A+/C+	230V
81	L5005200-115	CNTRL PANEL ASSY,	
81	L5005300-230	SIZE 02, 03, 04, C3, C4 SERIES A+/C+ CNTRL PANEL ASSY,	115V
81	L5004800-115	SIZE 02, 03, 04, C3, C4 SERIES A+/C+	
81	L5004900-230	SIZE 54, 64 SERIES A+/C+ CNTRL PANEL ASSY,	115V
81	L5007501-115	SIZE 54, 64 SERIES A+/C+ CNTRL PNL ASSY LMK2	230V
81	L5007301-115	SIGNAL RELAY CNTRL PNL ASSY LM A,B,C,D,E,K3	115V
81	L5007501-230	SIGNAL RELAY CNTRL PNL ASSY LMK2	115V
81	L5007301-230	SIGNAL RELAY CNTRL PNL ASSY LM A,B,C,D,E,K3	230V
81	L5007601-115	SIGNAL RELAY CNTRL PNL ASSY LMK2	230V
81	L5007401-115	POWER RELAY CNTRL PNL ASSY LM A,B,C,D,E,K3	115V
81	L5007601-230	POWER RELAY CNTRL PNL ASSY LMK2	115V
81	L5007401-230	POWER RELAY CNTRL PNL ASSY LM A,B,C,D,E,K3	230V
81	L5007701-115	POWER RELAY CNTRL PNL ASSY LMK5	230V
81	L5007101-115	SIGNAL RELAY 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
	L5007801-115	SIGNAL RELAY CNTRL PNL ASSY LMK5	230V
81		POWER RELAY CNTRL PNL ASSY LM F, G	115V
	L5007801-230	POWER RELAY CNTRL PNL ASSY LMK5	115V
	L5007201-230	POWER RELAY CNTRL PNL ASSY LM F, G	230V
	L5007901-115	POWER RELAY CNTRL PNL ASSY LMK7	230V
	L5006901-115	SIGNAL RELAY COTRL PNL ASSY LM H	115V
	L5006901-115	SIGNAL RELAY COTRL PNL ASSY LMK7	115V
	L5007901-230	SIGNAL RELAY COTRL PNL ASSY LMH	230V
		SIGNAL RELAY COTRL PNL ASSY LMK7	230V
	L5008001-115	POWER RELAY CNTRL PNL ASSY H	115V
	L5007001-115	POWER RELAY	115V
	L5008001-230	CNTRL PNL ASSY LMK7 POWER RELAY	230V
	L5007001-230	CNTRL PNL ASSY H POWER RELAY	230V
	L9804000-000 L9800500-STL	GROUND LUG NUT GROUND LUG BOLT	
	L9700800-000	BREAKER COVER	
	L9700200-000	CORD, SIGNAL, 10 FT	
\square	L9700201-000	CORD, SIGNAL, 20 FT	
Щ	L9700800-000	PROTECTIVE BOOT, CKT BRKER	

BLEED VALVE ASSEMBLIES

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

FOOT VALVE / STRAINER ASSEMBLIES

FOOT VALVE / STRAINER ASSEMBLIES					
tem No. Part No.	Description	ID X OD			
12IJ40117	IFPP/CSPE/C	3/8" X 1/2"			
12 J40203	FPP/CSPE/316	3/8" X 1/2"			
12 J40123	FPP/CSPE/TFE	3/8" X 1/2"			
12 J60509	FPP/VTN/C	3/8" X 1/2"			
12 J40141	FPP/VTN/316	3/8" X 1/2"			
12 J40125	FPP/VTN/TFE	3/8" X 1/2"			
12 J40212	FPP/FTF/C	3/8" X 1/2"			
12 J40175	FPP/FTF/316	3/8" X 1/2"			
12 J40171	FPP/FTF/TFE	3/8" X 1/2"			
12 J60728	PVD/FTF/C	3/8" X 1/2"			
12 J60729	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"			

STAINLESS STEEL VALVE REPAIR KITS

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

TUBING

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

INJECTION BACK PRESS VALVE ASSEMBLIES

INJECTION BACK PRESS VALVE ASSEMBLIES									
Item No. Part No.	Description	ID X OD							
131J41767	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/VTNC	3/8" X 1/2"							
13 J41882	IFPP/VTN/316	3/8" X 1/2"							
13 J41775	IFPP/VTN/TFF	3/8" X 1/2"							
13 J41872	FPP/FTF/C	3/8" X 1/2"							
13 J41879	FPP/FTF/316	3/8" X 1/2"							
13 J41875	FPP/FTF/TFE	3/8" X 1/2"							
13 J41694	PVC/CSPE/C	3/8" X 1/2"							
13 41698	PVC/CSPE/C 6"	3/8" X 1/2"							
13 41702	PP/VTN/C 6"	3/8" X 1/2"							
13 J41865	PVC/CSPE/316	3/8" X 1/2"							
13 J41759	PVC/CSPE/TFE	3/8" X 1/2"							
13 J41714	PVC/VTN/C	3/8" X 1/2"							
13 J41095	PVC/VTN/316	3/8" X 1/2"							
13 J41761	PVC/VTN/TFE	3/8" X 1/2"							
13 J41873	PVC/FTF/C	3/8" X 1/2"							
13 J41881	PVC/FTF/316	3/8" X 1/2"							
13 J41877	PVC/FTF/TFE	3/8" X 1/2"							
13 J61073	PVD/FTF/TFE	3/8" X 1/2"							
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" 1/4" X 3/8"							
13 J41874 13 41693	FPP/FTF/TFE PVC/CSPE/C	1/4" X 3/8" 1/4" X 3/8"							
13 41705	PVC/CSPE/C 6"	1/4 X 3/8 1/4" X 3/8"							
13 41705 13 J41864	PVC/CSPE/C 6	1/4 X 3/8 1/4" X 3/8"							
13 J41758	IPVC/CSPE/TFE	1/4" X 3/8"							
13 J61237	PVC/VTN/C	1/4" X 3/8"							
13 J41867	PVC/VTN/316	1/4" X 3/8"							
13 41760	PVC/VTN/TFE	1/4" X 3/8"							
13 J41996	PVC/FTF/C	1/4" X 3/8"							
13 J41880	PVC/FTF/316	1/4" X 3/8"							
13 J41876	PVC/FTF/TFE	1/4" X 3/8"							
13 J61020	PVD/FTF/C	1/4" X 3/8"							
13 J61026	IPVD/FTF/TFE	1/4" X 3/8"							
13 J41911	FPP/CSPE/C	.25 NPT							
13 J41901	FPP/VTN/C	.25 NPT							
13 J41944	FPP/FTF/C	.25 NPT							
13 J41904	PVC/CSPE/C	.25 NPT							
13 J41858	PVC/VTN/C	.25 NPT							
13 J41908	PVC/FTF/C	.25 NPT							
13 J61015	PVD/FTF/C	.25 NPT							
13 J61025	316/FTF/316	.25 NPT							
13 J41969	PVC/CSPE/C	1/2 X 3/4"							
13 J61149-10P	FPP/FTF/C	1/2 X 3/4"							
13 J61152-10P	FPP/CSPE/C	1/2 X 3/4"							
13 J61160-10P	FPP/FTF/C	.50 NPT							
13 J61157-10P	PVC/FTF/C	.50 NPT							
13 J61156-10P	PVC/TFE/S	.50 NPT							

OTHER

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



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

- Long Life DC2—DC6 are greased for life, DC7 is oil lubricated.
- Compact and Lightweight Saves space and easy handling.
- Controller Ready Add an MPC when automatic pump control is required.
- Simple Design Easy to install and operate.
- Highly Efficient Quiet and cool, standard fan cooled motor design.
- Guided Ball Check Valve Systems, to reduce back flow and enhance outstanding priming characteristics.
- Premium Standard Wetted Component Materials.
- Few Moving Parts and Wall Mountable.
- Liquid End Materials-PP, PVDF & 316 SS

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

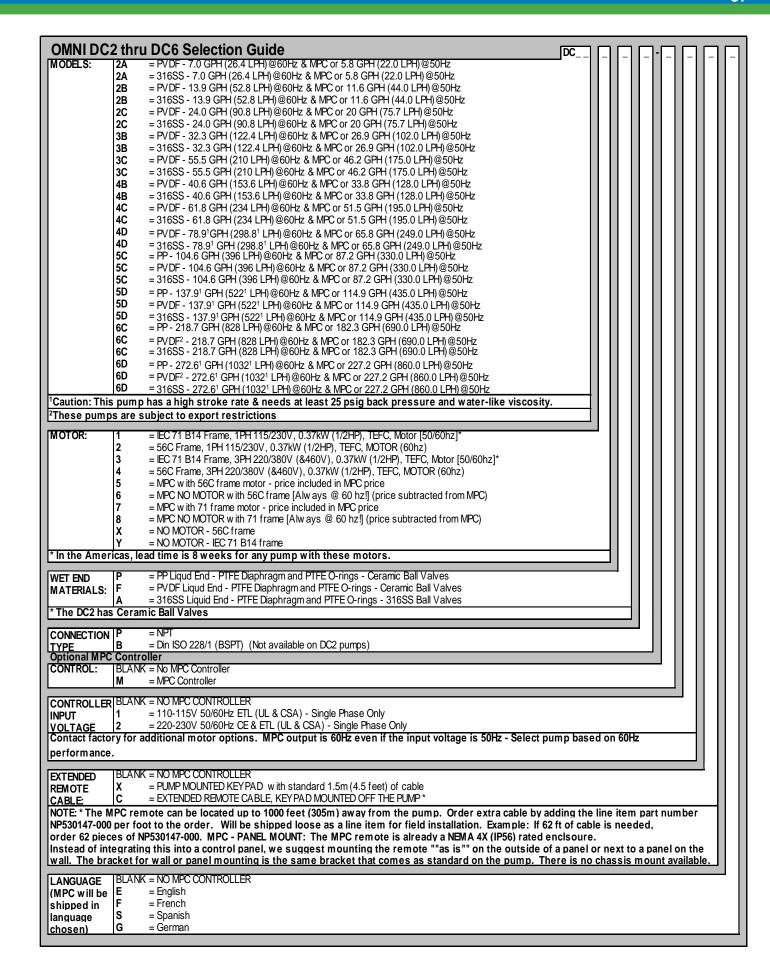


Performance & Selection Table

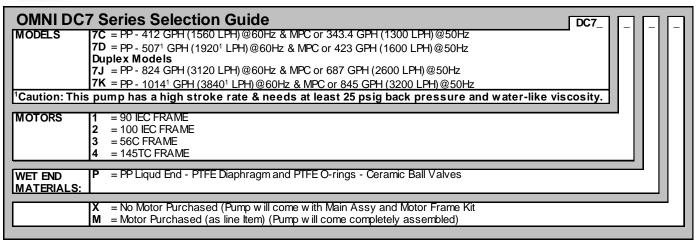
MODEL	_	DC2A	DC2B	DC2C	DC3B	DC3C	DC4B	DC4C	DC4D	DC5C	DC5D	DC6C	DC6D
Capacity	GPH	7	13.9	24	32.3	55.5	40.6	61.8	78.9 ¹	105	138	218.7	272.6 ¹
60 hz & MPC	LPH	26.4	52.8	90.8	122	210	154	234	298.8 ¹	396	522¹	828	1032¹
Capacity	GPH	5.8	11.6	20	26.9	46.2	33.8	51.5	65.8	87.2	115	182.3	227.2
50 hz	LPH	22	44	75.7	102	175	128	195	249	330	435	690	860
Pressure	PSIG	150		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
SFIVI @	1425	37	73	125	73	125	97	145	186	146	186	146	186
HP/kW Required 0.25 / 0.		8			0.50 / 0.37								
Connection Size 1/4" (F)NPT		PT	1/	1/2" (F)NPT OR (F)BSPT			1" (F)NPT OR (F)BSPT						

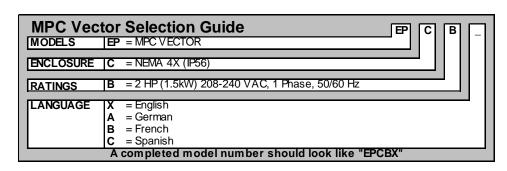
¹This selection uses a high stroking rate, use with caution.

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









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)		3	60	1723	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	507¹	824	1014 ¹		
60 hz & MPC	LPH	1560	1920¹	3120	3840¹		
Capacity	GPH	343	423	687	845		
50 hz LPH		1300 1600 2600 3200					
Pressure	60						
(max.)	BAR	4.1					
SPM @	1725	175	223 ¹	175	223 ¹		
SFIVI @	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.



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

OMNI KOPkit Selection Guide						
Type	Wetted		KOPkit			
Connection	Material	Pump	Number			
NPT	PVDF	DC2	NLK020FP			
NPT	PVDF	DC3 or DC4	NLK040FP			
BSPT	PVDF	DC3 or DC4	NLK040FB			
NPT	PVDF	DC5	NLK050FP			
BSPT	PVDF	DC5	NLK050FB			
NPT	PVDF	DC6	NLK060FP			
BSPT	PVDF	DC6	NLK060FB			
NPT	PP	DC5	NLK050PP			
BSPT	PP	DC5	NLK050PB			
NPT	PP	DC6	NLK060PP			
BSPT	PP	DC6	NLK060PB			
N/A	PVDF & PP	DC7	NLK070XX			
NPT	316SS	DC2	NLK020AP			
NPT	316SS	DC3 or DC4	NLK040AP			
BSPT	316SS	DC3 or DC4	NLK040AB			
NPT	316SS	DC5	NLK050AP			
BSPT	316SS	DC5	NLK050AB			
NPT	316SS	DC6	NLK060AP			
BSPT	316SS	DC6	NLK060AB			

	apnragm Pumps 150 PSI Pulsation Dampeners - Chargeable						
			· ·	1			
Volume	Body	Bladder	Connection	Part Number			
		EPDM CSPE	3/8" FNPT 3/8" FNPT	W777614-PPN W777614-PPH			
		TFE	3/8" FNPT	W777614-PPT			
	POLY	Viton	3/8" FNPT	W777614-PPV			
i		CSPE	1/2" FNPT	L9908300-HYP			
		TFE	1/2" FNPT	L9908300-TFE			
		Viton	1/2" FNPT	L9908300-VIT			
10 aubia	DVO.	CSPE	1/2" FNPT	L9908400-HYP			
10 cubic inches	PVC	TFE	1/2" FNPT 1/2" FNPT	L9908400-TFE			
IIICHES		Viton EPDM	3/8" FNPT	L9908400-VIT W777614-PVN			
	חעייי	CSPE	3/8" FNPT	W777614-PVH			
	PVDF	TFE	3/8" FNPT	W777614-PVT			
		Viton	3/8" FNPT	W777614-PVV			
		EPDM	3/8" FNPT	W777611-16N			
	316 SS	CSPE TFE	3/8" FNPT 3/8" FNPT	W777611-16H W777611-16T			
		Viton	3/8" FNPT	W777611-16V			
		EPDM	3/4" FNPT	W777616-PPN			
	POLY	CSPE	3/4" FNPT	W777616-PPH			
	POLI	TFE	3/4" FNPT	W777616-PPT			
		Viton	3/4" FNPT	W777616-PPV			
OF aubia		EPDM	3/4" FNPT	W777616-PVN			
85 cubic inches	PVDF	CSPE TFE	3/4" FNPT 3/4" FNPT	W777616-PVH W777616-PVT			
inches		Viton	3/4 FNPT	W777616-PVV			
		EPDM	3/4" FNPT	W777613-16N			
	316 SS	CSPE	3/4" FNPT	W777613-16H			
		TFE	3/4" FNPT	W777613-16T			
		Viton	3/4" FNPT	W777613-16V			
	POLY	EPDM	2" FNPT	W777618-PPN			
		CSPE	2" FNPT	W777618-PPH			
		TFE Viton	2" FNPT 2" FNPT	W777618-PPT W777618-PPV			
		EPDM	2" FNPT	W777618-PVN			
370 cubic	PVDF	CSPE	2" FNPT	W777618-PVH			
inches	PVDF	TFE	2" FNPT	W777618-PVT			
		Viton	2" FNPT	W777618-PVV			
i		EPDM	2" FNPT	W777631-16N			
	316 SS	CSPE TFE	2" FNPT 2" FNPT	W777631-16H W777631-16T			
		Viton	2" FNPT	W777631-16V			
		EPDM	3/4" FNPT	W777615-PPN			
	DOI V	CSPE	3/4" FNPT	W777615-PPH			
	POLY	TFE	3/4" FNPT	W777615-PPT			
		Viton	3/4" FNPT	W777615-PPV			
		EPDM	3/4" FNPT 3/4" FNPT	W777615-PVN			
36 cubic	PVDF	CSPE TFE	3/4" FNPT	W777615-PVH W777615-PVT			
inches		Viton	3/4" FNPT	W777615-PVV			
		EPDM	3/4" FNPT	W777612-16N			
i		CSPE	3/4" FNPT	W777612-16H			
i	316 SS	TFE	3/4" FNPT	W777612-16T			
		Viton	3/4" FNPT	W777612-16V			
		EPDM	2" FNPT	W777617-PPN			
	DOLY	CSPE	2" FNPT	W777617-PPH			
	POLY	TFE	2" FNPT	W777617-PPT			
		Viton	2" FNPT	W777617-PPV			
		EPDM	2" FNPT	W777617-PVN			
175 cubic	PVDF	CSPE	2" FNPT	W777617-PVH			
inches	ו עטר	TFE	2" FNPT	W777617-PVT			
		Viton	2" FNPT	W777617-PVV			
		EPDM	2" FNPT	W777630-16N			
	316 SS	CSPE	2" FNPT	W777630-16H			
		TFE	2" FNPT	W777630-16T			
	Specificati	Viton	2" FNPT	W777630-16V			

Specificati 150 PSI Maximum Pressure



Series XP

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

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

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

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

35 Gallon Tank System 15 Gallon ITS System

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





Contact factory for applicable agency

and CSA B483.1 approvals. Chem-Tech XP Series Selection Guide XP_ Pressure Rating - PSI (Bar) Speed Pump Tube Single Head Options Flow **Duplex** (RPM) Size Size 'L' Tube 'H' Tube | 'L' Tube | 'F' Tube XP004 4 GPD (0.6 LPH) 80 (5.5) 30 125 (8.6) 80 (5.5) 60 (4.1) XP007 7 GPD (1.1 LPH) XP009 9 GPD (1.4 LPH) 50 70 (4.8) 30 3 110 (7.6) 70 (4.8) 50 (3.4) MODELS: XP015 15 GPD (2.4 LPH) 50 XP014 14 GPD (2.3 LPH) 30 50 (3.4) 40 (2.8) 100 (5.9) XP023 23 GPD (3.6 LPH) 50 XP030 30 GPD (4.7 LPH) 80 (5.5) 40 (2.8) 30 40 (2.8) 6 XP050 50 GPD (7.9 LPH) 50 25 (1.7) XP048 48 GPD (7.5 LPH) 30 25 (1.7) 8 XP080 80 GPD (12.6 LPH) 115V, 60Hz н 230V. 50/60Hz **ELECTRICAL:** R 230V, 50Hzwith Grounded Right Angle European Plug Note: 50Hz pumps will produce 5/6 of the rated flow Fixed Rate, On / Off Only Adjustable 20:1 Turndown, On / Off with Current Interrupter Timer Α G Duplex Head - Fixed Rate, On / Off Only, 'L' Tube В Duplex Head - Adjustable, On / Off with Current Interrupter Timer, 'L' Tube Pulse Input, .1 to 1 Second Timer Pulse Input, .2 to 10 Second Timer 2 DRIVE: Pulse Input, 1 to 60 Second Timer Dry Contact Input - Fixed Rate Pump 5 Dry Contact Input - Adjustable Pump Flow Switch Activated with 3/4" NPT Flow Switch - Fixed Rate Pump 6 Flow Switch Activated with 3/4" NPT Flow Switch - Adjustable Rate Pump 7 Day - 8 Event Electronic Timer - Fixed Rate Pump Low Pressure Norprene with 1/4" Tube Fittings H High Pressure Norprene with 1/4" Tube Fittings 3 Low Pressure Norprene with 3/8" Tube Fittings **TUBING:** 4 High Pressure Norprene with 3/8" Tube Fittings Fluran, Acid resistant tubing with 1/4" Tube Fittings (Doesnot include strainer & injector accessories) Fluran, Acid resistant tubing with 3/8" Tube Fittings (Doesnot include strainer & injector accessories) G X Pump Only 15 Gallon Tank System SYSTEM: 3

A completed model should look like "XP030LFLX"



Series XPV

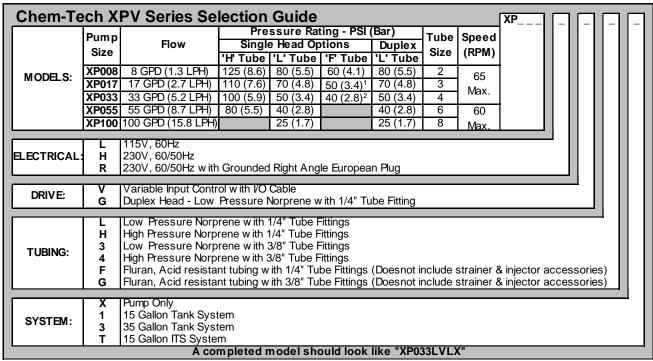
The Chem-Tech XPV Series pump combines the best in variable speed peristaltic pump technology with state of the art control electronics, providing you with unparalleled performance, control and value. The XPV represents the leading edge of microprocessor performance management, giving you many choices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

Key Features

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



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



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.

Fluran 3/8" Tubing Fittings

 NC90XX2GPA-XXXXX
 Kit, Tube Assy - 004 / 007 / 008

 NC90XX3GPA-XXXXX
 Kit, Tube Assy - 009 / 015 / 017

 NC90XX4GPA-XXXXX
 Kit, Tube Assy - 023 / 033 / 014

XP & XPV Series Parts Schedule

	XP & XPV Series	s Parts Schedule	
Part Number	Description	Part Number	Description
KOPkits - Low Press		ACCESSORIES ASSEM	
NCKA2LPAP1	KOPkit XP - 004 / 007 / 008	J63051	Access. Kit, PVC/VTN, .25N
NCKA3LPAP1	KOPkit XP - 009 / 015 / 017	J30257	Grease Kit
NCKA4LPAP1	KOPkit XP - 023 / 033 / 014		
NCKA6LPAP1	KOPkit XP - 030 / 050 / 055	PARTS	
NCKA8LPAP1	KOPkit XP - 048 / 080 / 100	J60609	Strainer Assembly w/o Valve
KOPkits - High Press	sure	J63002	Control Panel Cover (Clear)
NCKA2HPAP1	KOPkit XP - 004 / 007 / 008	J63004	Rain Hood
NCKA3HPAP1	KOPkit XP - 009 / 015 / 017	J63007	Sw itch, On-Off
NCKA4HPAP1	KOPkit XP - 023 / 033 / 014	J63013	Timer Assy
NCKA6HPAP1	KOPkit XP - 030 / 055	J63016	Gear Motor, 30RPM / 120V / 50-60Hz
NCKA24PAP1	KOPkit XP - 004 / 008 - 3/8"	J63017	Gear Motor, 30RPM / 240V / 50-60Hz
NCKA44PAP2	KOPkit XP - 033 / 014 - 3/8"	J63018	Gear Motor, 50RPM / 120V / 50-60Hz
KOPkits - Duplex Lov	w Pressure	J63019	Gear Motor, 50RPM / 240V / 50-60Hz
NCKD2LPAP1	KOPkit XP - 004 / 008	J63023	Housing Assy, 100% Fixed Rate
NCKD3LPAP1	KOPkit XP - 009 / 017	J63024	Housing Assy, 100% Timer
NCKD4LPAP1	KOPkit XP - 033 / 014	L1900500-000	Thumb Screw #6 (Control Pnl Cover)
NCKD6LPAP1	KOPkit XP - 030 / 055	NC110002-PVC	Coupling Nut, .25 NPT
NCKD8LPAP1	KOPkit XP - 048 / 100	NC110016-000	Sleeve, .25 OD Tube
		NC170004-000	Label, Earth Ground
TUBE KITS		NC190000-000	Knob, #10 Thumb Screw (Head Mtg)
Low Pressure 1/4" 1	Tube Fittings	U8800712	Injection Valve Assembly
NC90XX2LPA-XXXXX	Kit, Tube Assy - 004 / 007 / 008	NC82XX3LP1-XXXXX	Roller Assembly For Size 2-6 Tubes
NC90XX3LPA-XXXXX	Kit, Tube Assy - 009 / 015 / 017	NC82XX8LP1-XXXXX	Roller Assembly For Size 8 Tube
NC90XX4LPA-XXXXX	Kit, Tube Assy - 023 / 033 / 014		
NC90XX6LPA-XXXXX	Kit, Tube Assy - 030 / 050 / 055	TANK/WALL MOUNT	KITS
NC90XX8LPA-XXXXX	Kit, Tube Assy - 048 / 080 / 100	J63047	15 Gal Tank Bracket
High Pressure 1/4" 1	Tube Fittings	J63048	ITS Tank Adaptor Plate
NC90XX2HPA-XXXXX	Kit, Tube Assy - 004 / 007 / 008	J63049	Tank / Wall Mount with Shield
NC90XX3HPA-XXXXX	Kit, Tube Assy - 009 / 015 / 017		
NC90XX4HPA-XXXXX	Kit, Tube Assy - 023 / 033 / 014	WATER METER PULS	E TIM ER
NC90XX6HPA-XXXXX	Kit, Tube Assy - 030 / 055	U8800655	Control Mate, 115V
Low Pressure 3/8" T	-	U8800715	Control Mate LT, 0.1 to 10 seconds
NC90XX23PA-XXXXX	Kit, Tube Assy - 004 / 007 / 008	U0818343	Bracket, Mount
NC90XX33PA-XXXXX	Kit, Tube Assy - 009 / 015 / 017		,
NC90XX43PA-XXXXX	Kit, Tube Assy - 023 / 033 / 014	XPV Series Pa	rte
NC90XX63PA-XXXXX	Kit, Tube Assy - 030 / 050 / 055	J63006	Drive Motor, Variable Speed
NC90XX83PA-XXXXX	Kit, Tube Assy - 048 / 080 / 100	J63053	Digital Control Board, Variable Speed
High Pressure 3/8" 1	•	J63054	Pow er Supply, Variable Speed
NC90XX24PA-XXXXX	Kit, Tube Assy - 004 / 007 / 008	J63071	Motor Control Board, Variable Speed
NC90XX34PA-XXXXX	Kit, Tube Assy - 009 / 015 / 017	J63115	Fuse Kit, Variable Speed
NC90XX44PA-XXXXX	Kit, Tube Assy - 023 / 033 / 014		,
NC90XX64PA-XXXXX	Kit, Tube Assy - 030 / 055		
Fluran 1/4" Tubing Fi	-		
NC90XX2FPA-XXXXX	Kit, Tube Assy - 004 / 007 / 008		
NC90XX3FPA-XXXXX	Kit, Tube Assy - 009 / 015 / 017		
NC90XX4FPA-XXXXX	Kit, Tube Assy - 023 / 033 / 014		
Eluran 2/9" Tubing Ei	Ittings		



Prime Performance

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

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



Standard Agency Listings					
Model	ETL	ETLsan			
All 60Hz	Χ	Χ			
All 50Hz					
Contact factory	for alterna	te listings			



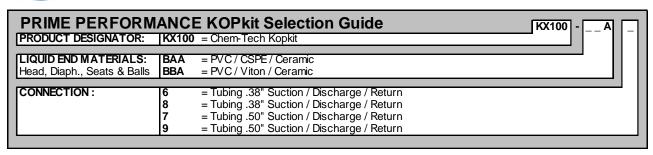


Contact factory for applicable agency provals.

PRIME PERFORM MODELS: 015 024 030 068 100 ELECTRICAL: XA XB XC LIQUID END MATERIALS: Head, Fittings/ Diaph., Seats/ Balls CONNECTION SIZES: 8 7 9	ANCE Selection Guide = 15 gpd (2.34 lph) max pres.: 100 PSI (7 BAR) = 24 gpd (3.78 lph) max pres.: 100 PSI (7 BAR) = 30 gpd (4.72 lph) max pres.: 100 PSI (7 BAR) = 68 gpd (10.72 lph) max pres.: 60 PSI (4 BAR) = 100 gpd (15.76 lph) max pres.: 60 PSI (4 BAR) = 115V, 60 Hz = 230V, 50 Hz = 230V, 60 Hz = PVC / CSPE / Ceramic	A	
Diaph., Seats/ Balls CONNECTION 6 8 7	= 24 gpd (3.78 lph) max pres.: 100 PSI (7 BAR) = 30 gpd (4.72 lph) max pres.: 100 PSI (7 BAR) = 68 gpd (10.72 lph) max pres.: 60 PSI (4 BAR) = 100 gpd (15.76 lph) max pres.: 60 PSI (4 BAR) = 115V, 60 Hz = 230V, 50 Hz = 230V, 60 Hz		
LIQUID END BAA BBA Head, Fittings/ Diaph., Seats/ Balls CONNECTION 6 8 7	= 230V, 50 Hz = 230V, 60 Hz		
MATERIALS: Head, Fittings/ Diaph., Seats/ Balls CONNECTION SIZES: 6 8 7	= PVC / CSPE / Ceramic	_	
SIZES: 8 7	= PVC / Viton / Ceramic		1
	= Tubing .38" PE BLK Suction / .38" PE BLK Discharge / .38" PE BLK Return = Tubing .38" PVC Suction / .38" PE Discharge / .38" PVC Return = Tubing .50" PE BLK Suction / .50" PE BLK Discharge / .50" PVC Return = Tubing .50" PVC Suction / .50" PE Discharge / .50" PVC Return		١
SUFFIX CODES: XXX 001 15T 35T	= Standard = Current Interrupter		
	= 15 gal tank w/bulkhead for vent,level w and,safety cap & fasteners = 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 injecion/back pressure valve assembly.







Series 100, 150, 200

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

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

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

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

Standard Agency Listings					
Model	ETL	ETLsan			
All 60Hz	Χ	Χ			
100-150 50Hz					
200 50Hz					
Contact factory	for alterna	te listings			







Contact factory for applicable agency approvals.

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R)	MODELS:
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	LECTRICAL:
	LECTRICAL:
	IQUID END
	IATERIALS:
	ump Head &
	ittings/Seats
	ι O-rings/Balls
	ONNECTION
	IZES:
ge	
ge	
95	
	UFFIX
	ODES:
	Not available
IIKE "X015-XA-BAAAXXX"	available
like "X015-XA-BAAAXXX"	INOT AVAIIADIO



Series 100D and 150D

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

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

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

Standard Agency Listings Model All 60Hz 100-150 50Hz

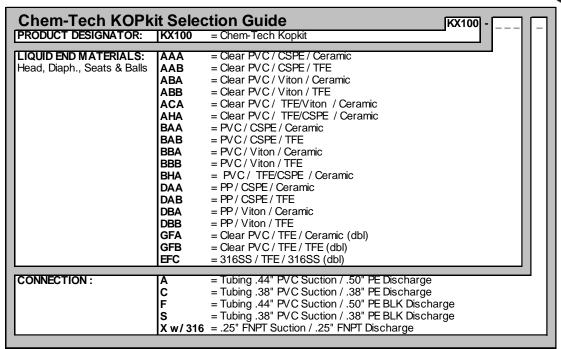
200 50Hz Contact factory for alternate listings





		9790150 approvals.
Chem-Tee	ch Ser	ries 100D and 150D Duplex Selection Guide 🔟 - 🦳 🦳 🦳
MODELS:		100D Duplex Pump
	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.: 75 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 (1.189 lph) / 8.0 gpd (1.26 lph) max pres.: 60 PSI (4.2 BAR)
	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	
	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:		= 115V, 60 Hz
	XB	= 230V, 50 Hz
	XC	= 230V, 60 Hz
IQUID END	IAAA	= Clear PVC / CSPE / Ceramic
MATERIALS:	AAB	= Clear PVC / CSPE / TFE
ump Head &	ABA	= Clear PVC / Viton / Ceramic
ittings/Seats	ABB	= Clear PVC / Viton / TFE
O-rings/Balls		= Clear PVC / TFE/Viton / Ceramic
t o Tilligo/Dallo	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/TTE
	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)
ONNECTION	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 V / 04/	= Tubing .38" PVC Suction / .38" PE BLK Discharge
	X w/ 31	6 = .25" FNPT Suction / .25" FNPT Discharge
UFFIX	IXXX	= Standard
	001	= Current Interrupter
CODES:	500*	= Five Function Valve
	500* 520*	= Five Function Valve = Five Function Degas Valve
ODES:	500* 520* ITS	= Five Function Valve





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

Part No.	Description	Part No.	Description
00006	Suction Tubing - per foot 7/16" OD	J26909	Bulkhead Fitting (PVC-5/16")
00007	Suction Tubing - per foot 3/8"	J26910	Bulkhead Fitting 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
_0000	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 - \$100 - 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")		
ISCOO	Pull-bood Fitting (D)/C 2/0")		

J26908 Bulkhead Fitting (PVC-3/8")

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

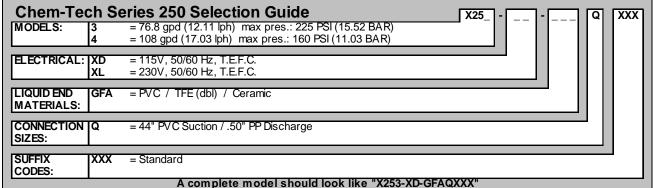
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Part Number	Description	Part Number	Description
J30514	Kit, Bleed, Valve, FPP/TFE/ 3/8	41588	Anti-Siphon Valve (PVC-VT-1/2")
J30515	Kit, Bleed, Valve, PVC/HPY/ 1/2	41624	Anti-Siphon Valve (PVC-CSPE-1/2") (Standard)
J30517	Kit, Bleed, Valve, PVC/VTN/ 1/2	41657	Back Check Valve Assy (PVC-CSPE-C-3/8")
J30518	Kit, Bleed, Valve, PVC/TFE/ 1/2	J41658	Back Check Valve Assy (PVC-CSPE-C-1/2")
J30519	Kit, Bleed, Valve, FPP/CSPE/ 1/2	41659	Back Check Valve Assy (PP-VT-C-1/2")
L3300V03-FPP	Kit, Bleed, Valve, FPP/VTN/ 1/2	41661	Back Check Valve Assy (PVC-VT-C-1/2")
J30522	Kit, Bleed, Valve, FPP/TFE/ 1/2	41665	Anti-Scale Injector (PVC-CSPE-1/2")
31081	Locking Lever - S100, 215, 230, 260	41666	Double Ball Ck VIv Cart Assy (PVC-3/8") Suct
31082	Locking Lever 20, 40, GPD S200	J41667	Double Ball Ck Vlv Cart Assy (PVC-1/2") Suct
31083	Locking Lever - S150, 280, 2-100, 2-120	41668	Double Ball Ck Vlv Cart Assy (PVC-3/8") Disch
32520	Motor - 7 SPM, 115V, 60 Hz, 003	J41669	Double Ball Ck VIv Cart Assy (PVC-1/2") Disch
32521	Motor - 13 SPM, 115V, 60 Hz, 007	J41694	Back Check Valve Assy (PVC-CSPE-C-1/2")
32522	Motor - 25 SPM, 115V, 60 Hz, 015	41695	Back Check Valve Assy (PVC-VT-C-3/8")
32523	Motor - 51 SPM, 115V, 60 Hz, 024/030/068	41696	Back Check Valve Assy (PP-VT-C-3/8")
32524	Motor - 7 SPM, 230V, 60 Hz, 003	41705	6" Ck VIv Inj Assy (PVC-CSPE-C-3/8")
32525	Motor - 13 SPM, 230V, 60 Hz, 007	41707	6" Ck Vlve Inj Assy (PVC-VT-C-3/8")
32526	Motor - 25 SPM, 230V, 60 Hz, 015	41708	6" Ck VIv Inj Assy (PVC-VT-C-1/2")
32527	Motor - 51 SPM, 230V, 60 Hz, 024/030/068	41709	6" Ck VIv Inj Assy (PP-VT-C-3/8")
32528	Motor - 7 SPM, 230V, 50 Hz, 003	41710	6" Ck VIv Inj Assy (PP-VT-C-1/2")
32529	Motor - 13 SPM, 230V, 50 Hz, 007	41720	Anti-Siphon Valve (PVC-CSPE-1/2" NPT)
32530	Motor - 25 SPM, 230V, 50 Hz, 015	41786	Anti-Siphon Valve (PVC-VT-1/2" NPT)
32531	Motor - 51 SPM, 230V, 50 Hz, 024/030/068	41795	Back Check Valve Assy (PVC-CSPE-C-1/2" x 1/2" NPT)
32532	Motor - 70 SPM, 115V, 60 Hz, 100	J42020	Head Bolt Washer SS .20 x .38
32533	Motor - 70 SPM, 230V, 50 Hz, 100	J42030	Fiber Washer
32535	Motor - 70 SPM, 230V, 60 Hz, 100	42031	Washer, Fiber
J34379	Backing Plate	J60030	Head Assy (SAN-CSPE-C-3/8" D)
34405	Plate, Motor Cover	J61222	Kit, 5 Function Valve incl L380DT03-PVC for Series 100/200
34423	Back Plate	J61271	Kit, 5 Function Valve incl L380FT03-PVC for Series 200
34532	Oil Filler Plug w /Cap	J61539	Kit, 5 Function Valve incl L380DT02-PVC for Series 100/200
J37073	Screw Motor Cover	J61502	
37080	Output Adjust Screw 10, 20, 40 GPD	J61503	Kit, Oil Drain Plug (includes J37002 & J42030)
37081		J61504	Kit, S200 Back Plate Screws (5 - J37017, 5 - J42030)
37083	Output Adjust Screw 15, 30, 60 GPD	J61505	Kit, S200 Motor Cover Hdw e (2 - J37002, 2 - J42030) Kit, S100 Motor Cover Hdw e (4 - J37032, 2 - J37073)
37088	Output Adjust Screw 80, 100, 120 GPD		
37089	Output Adi Screw - S150	J61506	Kit, S100 Cam Bearing Set Screw (2 - 37047)
	Output Adj Screw - S100	J61507	Kit, S100 Motor Mount Hdw e (3 - 37049)
37300	Oil Seal	J61508	Kit, S200 Main Housing Screw
J37440	Valve Seat, Vites	164500	(2 - 37021, 2 - J42083, 2 - 42031) Vit \$200 Shoft Coupling Meter (4 - 24066, 4 - 27060)
J37442	Valve Seat, Viton	J61509	Kit, S200 Shaft Coupling Motor (1 - 24966, 1 - 37060)
37886	Diaphragm Shaft	J61510	Kit, S200 Shaft Coupling Gear (1 - 24967, 1 - 37061)
38080	Locking Sleeve	J61511	Kit, Screw Motor Cover (2 - J37073)
38980	Diaphragm Return Spring	J61512	Kit, Valve Seats CSPE (4 - J37440)
38981	Coupling Spring	J61513	Kit, Ball Checks (4 - J20560)
38984	Valve Spring - top - light	J61515	Kit, Valve Seats Viton (4 - J37442)
J38985	Valve Spring	J61516	Kit, Head Mounting Bolts (4 - J37005, 4 - J42020)
J60717	Foot Valve & Strainer Assy (PVD-CSPE-C-3/8")	J61518	Kit, Gasket TFE (4 - J27903)
J60729	Foot Valve & Strainer Assy (PVD-CSPE-C-1/2")	L9906700-000	Sinker
J60718	Foot Valve & Strainer Assy (PVD-VT-C-3/8")		0000111 40400000
J60730	Foot Valve & Strainer Assy (PVD-VT-C-1/2")	00040	SPECIAL ADAPTERS
J41540	Valve Housing Discharge, PVC 1/2"	20013	Pressure Relief Valve Adapter
41541	Valve Housing Discharge, PP 1/2"		OTAINI FOO OTEEL DIMAD A COFCOODIES
41543	Valve Housing Discharge, PVC 3/8"	00000	STAINLESS STEEL PUMP ACCESSORIES
41544	Valve Housing Discharge, PP 3/8"	28896	316 SS Head Assy - Double Check VIv
J41548	Valve Housing Suction, PVC 1/2"	144050	(TFE, SS) 1/4" FPT Conn
J41834	Valve Housing Suction, PP 1/2"	J41656	316 SS Double Back Ck VIv Assembly
41551	Valve Housing Suction, PVC 3/8"	14005=	(TFE, SS) 1/4" FPT Conn
J41835	Valve Housing Suction, PP 3/8"	J40095	316 SS Strainer Assy 1/4" FPT Conn
		J41640	316 SS Suction Valve 1/4" FPT
		J41641	316 SS Discharge Valve 1/4" FPT



Series 250

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





IMPORTANT NOTES:

Part No.

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

STANDARD ACCESSORIES:

Description

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

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

Series 250 Parts Schedule

Description

raitino.	Description	raitino.	Description
00006	Suction Tubing (per foot) 7/16" OD	29230	Motor Cover / 253 - 254
J00012	Polypropylene Tubing, 1/2" OD - Discharge (per foot)	29313	Pump Housing
00013	Polypropylene Tubing, 1/2" OD-Discharge (per ft) - Black	30460	Output Adjustment Knob
J20560	Ball Check, Ceramic	31084	Locking Lever
23705	Collar - Model 253	32545	Motor, 115/230V, 50/60 Hz, TEFC
23706	Collar - Model 254	34532	Oil Filler Plug with Cap
J24269	Oil (quart)	37084	Adjustment Screw
24820	Cord Assembly, 115V, 60Hz	37886	Diaphragm 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 1FE (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
- 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 ap-
- Reliability: spring-loaded check valves for high reliability.

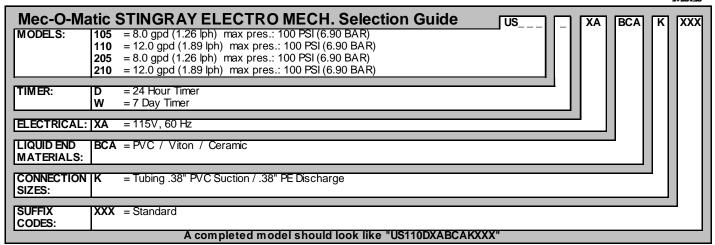


Mec-O-Matic STINGRAY 100 and 200 Series Selection Guide US FECA K X
MODELS: Series 100
105 = 8.0 gpd (1.26 lph) max pres.: 100 PSI (6.90 BAR)
110 = 12.0 gpd (1.89 lph) max pres.: 100 PSI (6.90 BAR)
125 = 30.0 gpd (4.73 lph) max pres.: 100 PSI (6.90 BAR)
150 = 60.0 gpd (9.46 lph) max pres.: 100 PSI (6.90 BAR)
175 = 90.0 gpd (14.19 lph) max pres.: 60 PSI (4.14 BAR)
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: XA = 115V, 60 Hz
TELECTRICAL. AA = 110V, 001E
LIQUID END BCA = PVC / Viton / Ceramic
MATERIALS:
SANKESTIAN U.C. T. L. T. CON D.C. O. L. C. O. D. D. D. D. D. L. T. C. C. D.
CONNECTION K = Tubing .38" PVC Suction / .38" PE Discharge
SIZES.
SUFFIX XXX = Standard
CODES:
A completed model should look like "US110XA-BCAKXXX"

- 1. Maximum GPD Rating is at Zero PSI.
- 2. 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

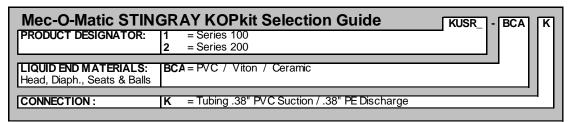


STINGRAY Electro Mechanical Series



- Available in 115V 60 cycle only.
- 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.

MEC-O-MATIC KOPKits





STINGRAY Series Parts Schedule

Part No.	Description	Part No.	Description
41403	Discharge Tubing 8 ft PE 3/8"	U8800656	Kit, SR Drive Block Conversion
J41424	Suction tubing 4 ft PVC 3/8"	U8800701	Head Assembly Series 100
U0810545	Spring Clutch	U8800703	Head Assembly Series 200
U0811279	Pump Head Series 200	U8800704	Valve Kit Series 200 (viton)
U0817888	Shoulder Screw 10 - 24 X ,58	U8800729	Kit, Head Bolt S100 (4 - U0810036, 4 - L9801300-188)
U0811861	Head Cover Series 100	U8800730	Kit, Head Bolt S200 (4 - U0813501, 4 - L9801300-188)
U0812318	Pump Head Series 100	U8800732	Kit, Foot Pads (4 - U0818379)
U0814211	Compression Nut	U8800735	Kit, Spring (2 - U0812915)
U0818143	Drive Block	L9900700-00	Strain Relief
U0818148	Drive Plate	U0818406	Motor, SR 105/205, 120V, 60Hz
U0818215	Motor Housing	U0818407	Motor, SR 105/205, 240V, 50/60Hz
U0818226	Regulator Housing	U0818408	Motor, SR 110/210, 120V, 60Hz
U0818227	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"	LI0818994	Tube PF Black 1/4" OD X 15 ft

MEC-O-MATIC WAREWASH PUMPS

Series T-2000 Misting System

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

Contact factory for applicable agency approvals.



Mec-O-Matic Series T-2000 Selection Guide	US275 XA - BCXX
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

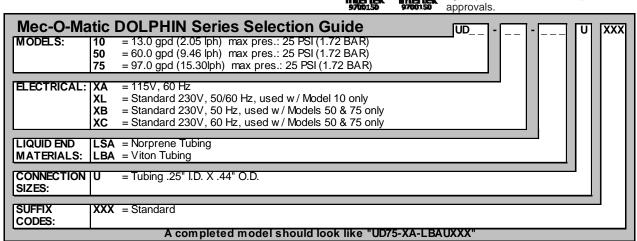
- Exclusive quick-release, twist-off, clear polycarbonate, acid-resistant head to withstand the harshest environment.
- Self-lubricating chemical resistant roller assembly.
- Durable, long lasting tubing with no tube adjustment.
- Rugged and dependable Heavy-duty shaded pole gearmotor with lifetime lubrication.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

Part No

Description

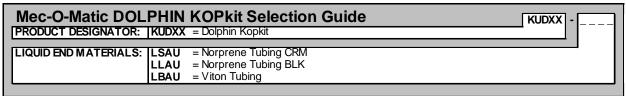


agency



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.

EC-O-MATIC KOPKits



DOLPHIN Series Parts Schedule

Part No.

Description

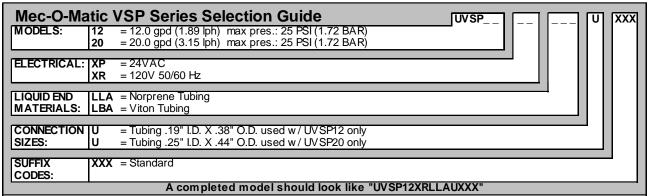
raitivo.	Description	raitivo.	Description
J60552	Strainer Assembly w/o valve	U0818616	Gearmotor Assembly, 120V, 10 RPM - D10
24820	Pow er Cord 120V	U0818617	Gearmotor Assembly, 240V, 10 RPM - D10
24821	Pow er Cord 240V	U0818618	Gearmotor Assembly, 120V, 50 RPM - D50
U0817630	Lead Assembly	U0818619	Gearmotor Assembly, 240V, 50 RPM - D50
U0817635	Knob	U0818620	Gearmotor Assembly, 120V, 75 RPM - D75
U0817923	Sw itch, 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)		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.





Shipping weight for all VSP pumps is 6 lbs.

VSP Series Parts Schedule

Part Number Description J60552 Strainer w/o Valve U0817122 Collar VSP - 12 U0817123 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 Printed Circuit Board 120V U0818306 U0818320 Pow er Cord 24V Fuse 24V, 1/2 Amp U0818463 U0818464 Fuse 120V, 1/8 Amp U0818667 Gearmotor Kit Tube Kit VSP - 20 U7013397 U8800431 15" X 1/4" Poly Tubing Pump Head Kit U8800651 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)

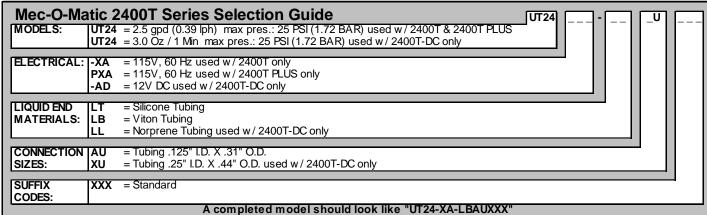
L9900700-000 Strain Relief

MEC-O-MATIC PERISTALTIC PUMPS

Series 2400T Grease Trap Dispenser

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





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

2400T & T PLUS Series Parts Schedule

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

2400T DC Series Parts Schedule

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

Policies and Procedures

1. Manufacturer's Equipment Warranty

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

2. Pulsafeeder's Parts and Accessory Warranty

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

Digital Glycol Feeders Pre-Engineered Systems Corrosion Coupon Racks
Analog Timers Water Meters Flow Controllers

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

3. Process for All Returned Goods

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

Billing and ship-to address

Model number and serial number

Contact name and phone number

Reason for return

Purchase order (where applicable)

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

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

4. Non-Warranty Return Procedure

iii.

- a. If you are experiencing a concern with your Pulsafeeder product, first consult the distributor, dealer or Regional Sales Manager or the operation and maintenance manual for assistance. If service of your non-warranty unit is necessary, you must request a return material authorization. A RMA form will be issued and must be used as the packing list attached to the outside of the box. Please send the unit freight prepaid with the RMA number visibly displayed on the outside of the carton. All products MUST be wiped and flushed clean of any and all chemicals, solvents or buffers and be warranted to be safe for handling. You will be requested to acknowledge the condition of the product being returned on our packing list. Any product received that is deemed to be unsafe for handling or without this acknowledgement will be refused by our receiver.
- b. The charges listed in the following table will apply.
- c. Extended warranty on repair goods will be offered only when the repairs were made by the factory on non-warranty units.
 - i. Microprocessor Controls 1 year from date of shipment
 - ii. Electronic Controls 6 months from date of shipment (excluding electronic parts)

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

Policies and Procedures continued

5. Credit for Return of New, Unused Equipment

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

6. Pricing Errors

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

7. Missing Items

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

8. Damaged Items

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

9. Technical Support Services Available

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

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

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

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

Terms & Conditions

- 1 . AGREEMENT. The contract of sale resulting from Seller's documentation together with these terms and conditions ("Contract") constitutes the entire agreement between the parties hereto, except as modified in writing signed by both the Seller and Purchaser. The Seller is Pulsafeeder, Inc. and the Purchaser is identified in the Contract. Any terms in a purchase order, irrespective of their materiality, which are either different from or additional to Seller's conditions of sale, are objected to and are excluded unless the Seller expressly agrees in writing to such terms. Execution of such forms by Seller to accommodate Purchaser's procurement or accounting procedures or to evidence agreed up on change orders shall not be construed as assent to Purchaser's terms. Acceptance of the goods shipped shall constitute assent to Seller's conditions of sale. This Contract shall be binding up on Purchaser and Seller, and on their successors and assigns.
- 2 . PROPOSAL OR QUOTATION. A proposal shall not become binding up on Seller until it has been executed and returned by Purchaser. An oral quotation shall not be considered an offer: only a written confirmation thereof incorporating Seller's terms and conditions shall constitute an offer.
- 3 . CREDIT. Credit terms of payment must have the approval of Seller's Credit Department and must be specified in writing on Seller's invoice or in the Contract. If Purchaser's credit is found by Seller to be unsatisfactory. Seller may rescind or terminate this Contract. If at any time during the term of this Contract Purchaser's financial responsibility becomes impaired or unsatisfactory to Seller, Seller reserves the right to stop shipment on notification to Purchaser, project owner and surety with a demand for payment in advance or at time of delivery for future deliveries or to require other security satisfactory to Seller and in the absence thereof, to cancel the unfilled portion of the Contract. Seller will notify Purchaser promptly of its decision to stop shipments and give an advance notice to the extent this is possible. In the absence of credit terms, sales are for cash.
- 4 . PAYMENT. Specific terms of payment for this order shall be set forth on the reverse side of this Contract or identified and appended hereto. Purchaser agrees to make payment at Seller's location specified in this Contract in lawful money of the United States. Purchaser further agrees to make all payments when due to Seller in accordance with the agreed terms of payment in this Contract without reference to Purchaser's agreement with or payments by the owner and with no right of retention 5 . INTEREST AND COSTS. Purchaser agrees to pay interest at 1.5% per month (to the extent permitted by law) on all delinquent balances if and when assessed by Seller, and any attorney's fees or court costs arising out of and made necessary in collection of its obligation to Seller created by this Contract.
- 6 . TAXES. Any federal, state or local tax assessment, fee, duty or charge hereafter imposed on or measured by the products purchased hereunder shall be for Purchaser's account unless Purchaser furnishes Seller an acceptable exemption certificate from such tax, fee, duty or charge prior to shipment.
- 7 . FORCE MAJEURE. Seller shall make delivery in accordance with the terms of this Contract or within a reasonable time in the absence of any commitment, but Seller shall not be liable for delays or defaults in delivery caused by floods, fires, storms, or other acts of God, by war or act of public enemy (or civil disturbance), strikes, lock outs, shortages of labor or raw materials and supplies (including fuel) or production facilities, transportation service or equipment shortages or failures, action of any governmental authority or other conditions beyond Seller's reasonable control.
- 8. CANCELLATION. If Purchaser desires to cancel or change any portion of this Contract, he must make such request in writing to Seller. Seller may, in its sole discretion, accept or reject any such request. If accepted, the Purchaser nonetheless must take delivery and make payment to Seller for all material manufactured and in process of manufacture at time of notice, and all special materials ordered at time of notice and for which Seller must take delivery, unless otherwise agreed by Seller in writing. All such materials must be removed from Seller's premises within 30 days after payment and payment will due at time of notice. Seller also reserves the right to make a cancellation charge in the event of cancellation by the Purchaser of an order p laced in Seller's shipping schedule and acknowledged by Seller.
- 9 . INSPECTION AND TESTING . Seller's standard specifications and tests apply to all orders. All charges for inspections or tests not regularly furnished are for Purchaser's account and subject to prior negotiation. All inspections shall be conducted at Seller's plant, and failure of Purchaser to avail himself of inspection privileges shall be deemed a waiver of such privileges.
- 10. PRICES. Prices are subject to change without notice. Orders based on published prices and accepted for scheduled shipment will be invoiced at Seller's applicable price in effect on the scheduled date of shipment, unless otherwise specifically noted on the order acknowledgment. All prices will be in accordance with applicable government regulations. Orders specifying palletizing or special packaging will involve special charges.
- 11. DELAYS. All orders are accepted subject to Seller's ability to make delivery at the time and in the quantities specified, and Seller shall not be liable for damages for failure to make partial or complete shipment or for any delay in making shipments. Purchaser shall be liable for any added expenses incurred by Seller because of Purchaser's delay in furnishing requested information to Seller, delay resulting from order changes by Purchaser, or delay in unloading shipments at delivery point.
- 12. SHIPMENT. Seller will select method of shipment and routing when transportation charges are for account of Seller. When shipping instructions are specified by the Purchaser, all costs will be for the account of the Purchaser. The foregoing includes, but is not limited to, carriers charges for notification prior to delivery, demurrage, delay in unloading, diversion, or reconsignment.
- 13. TITLE. Title to products transfers up on delivery to Purchaser at the F.O.B. point of delivery which will be clearly set forth in the shipment terms of this Contract. On receipt of title, Purchaser is then responsible for proper protection of product, placement, compliance with all regulations and ordinances, and will indemnify Seller against all claims for personal injuries or property damage arising from the storage, use or handling of such products.
- 14. IN TRANSIT CLAIMS. Claims for damage or shortage in transit must be made against the carrier by the owner of the shipment according to the F.O.B. terms of the Contract. Purchaser has the responsibility to inspect shipments before or during unloading to identify any such damage or shortage and see that appropriate notation is made on the delivery tickets or an inspection report furnished by the local agent of the carrier in order to support a claim.

 1 5 . CLAIMS. Notice of Claims against Seller hereunder for any reason, must be made to Seller in writing promptly after discovery and within any applicable warranty
- period. Failure to give such notice to Seller shall constitute a waiver by Purchaser of any right later to assert such a claim.
- 16. RETURNS. Returned goods shall be accepted for credit only if in salable condition and only with evidence of Seller's prior written consent. Seller will assess charges for freight both ways and any costs necessary to restore such goods to the regular plant inventory. The amount of credit given will depend further up on the degree of salability of products accepted in opinion of Seller.
- 17. PATENTS. Seller agrees to defend, and to protect Purchaser against loss or damage arising out of any legal action for patent infringement in connection with the manufacture of its products sold to Purchaser, provided Seller is notified promptly of any such action with complete information and is given an opportunity to defend. 18. WARRANTY: LIMITATION OF LIAB ILITY. Seller warrants title to each individual product sold under this Contract and further warrants for a period of twenty-four (24) months from ship date, but only to the extent and limit of the purchase price paid for such individual product, that such product conforms to the specifications set forth in the Contract and is free from defects in material and workmanship under normal service and use for which it was designed. Seller's sole obligation and Purchaser's exclusive remedy under this warranty shall be limited to one of the following, as selected by Seller: delivering to Purchaser a replacement for any product or part thereof determined by Seller to be defective, repairing such product or part, or refunding the purchase price (or an equitable portion thereof) paid for such product or part by Purchaser. SELLER MAKES NO WARRANTY OF FITNESS OR MERCHANTABILITY, AND NO OTHER WARRANTY, WHETHER EXPRESS OR ARISING BY OP-ÉRATION OF LAW, COURSE OF DEALING, USAGE OF TRADE OR OTHERWISE IMPLIED SHALL EXIST IN CONNECTION WITH SELLER'S PRODUCTS OR ANY SALE OR USE THERE OF. Purchaser must notify Seller promptly and within the warranty period of any claim under this warranty. Seller's warranty extends only to the first purchaser of a product from Seller's authorized distributor. All goods not manufactured by Seller are warranted only to the extent of the warranties of the original manufacturer. Seller disclaims any liability arising from tort, including strict liability, and Seller further disclaims any liability (whether arising under this or any other provision of this Contract or otherwise) for any costs (including costs of removal or replacement), liabilities, lost profits, loss of good will or any other general, special, incidental or consequential damages incurred by Purchaser in connection with this Contract or any product purchased there under.
- 19. LAW. This order shall be governed by and shall be construed by the law of the State of New York.
- 2 0 . GOVERNMENTAL REGULATIONS. Seller warrants that no code, law, regulation or ordinance of the United States, a state or any other governmental authority or agency or any applicable Executive Order has been violated in the manufacture or sale of the items covered by this Agreement and warrants that the equipment, supplies, and/or articles covered thereby conform with all such requirements.
- 21. NUCLEAR FINANCIAL PROTECTION. Purchaser agrees to procure and maintain, as available to it, nuclear energy liability insurance, in a form of policy approved by the Nuclear Regulatory Commission, and protection, as available, against liability for nuclear incidents not covered by such insurance through an indemnity agreement, as provided in Section 170 of the Atomic Energy Act of 1954, as amended, or any succeeding comparable statutory provision, and the regulations thereunder. Such financial protection shall be effective prior to the time any equipment purchased from us is used or installed at or in connection with any nuclear facility and shall cover us an insured party. To the extent that such financial protection is not suitable to Purchaser. Purchaser agrees to use its best efforts to cause such financial protection to be obtained by eligible parties. We will cooperate with Purchaser and representatives of the nuclear energy insurance syndicates in complying with all underwriting requirements and with those insurance recommendations which may be mutually agreed up on. Notwithstanding any representations or warranties made by us elsewhere in these conditions of sale, we shall not be responsible for any bodily injury or property damage liability or any other public liability for any nuclear incidents, whether or not in respect of or arising in connection with use or installation of our equipment at any nuclear facility or in connection with any such facility. Purchaser hereby assumes any liability which might otherwise be imposed up on us and agrees to indemnify us and hold harmless from any such liability and costs or expenses in connection therewith.

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pulsafeeder.com



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