

LMI Product List

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PD Series



.002 to 2 GPH (.8 to 7.6 l/h)
Max: 450 PSI (30.6 Bar)

Excel AD



.002 to 2 GPH (.8 to 7.6 l/h)
Max: 250 PSI (17.2 Bar)

B Series



.001 to 7 GPH (6.1 to 26.5 l/h)
Max: 150 PSI (10.3 Bar)

C Series



.001 to 25 GPH (4.9 to 95 l/h)
Max: 300 PSI (20.7 Bar)

SOLENOID

Solenoid Actuated Diaphragm Pumps

SD Series



.12 to 127 GPH (2.6 to 435 l/h)
Max: 175 PSI (12.1 Bar)

SG Series



26 to 300 GPH (400 to 1,136 l/h)
Max: 150 PSI (10.3 Bar)

E Series



.001 to 20 GPH (4.9 to 78 l/h)
Max: 300 PSI (20.7 Bar)

EXCEL XR



.006 to 53 GPH (.023 to 203 l/hr)
Max: 175 PSI (12.0 Bar)

MOTOR DRIVEN

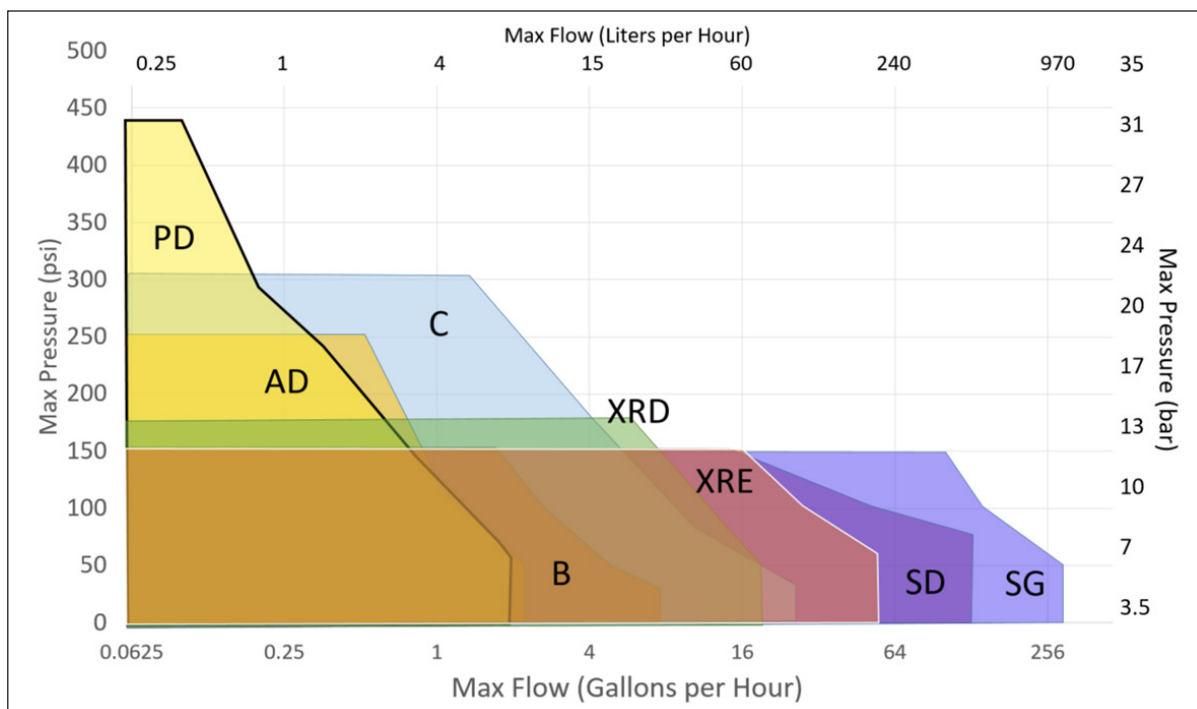
Non Lost Motion Mechanically Actuated
Diaphragm Pumps

SPECIALIZED ELECTRONIC

Solenoid Actuated
Explosion Proof Pump

INTELLIGENT CONTROL

Stepper Motor Non Lost Motion
Diaphragm Pump



CHEMICAL RESISTANCE GUIDE

This guide is offered as a general aid in selecting the appropriate materials used for a broad spectrum of aggressive chemicals routinely handled by the products we manufacture. Because chemicals and their properties can vary greatly, this chart is to be used at your discretion. The accuracy of these ratings cannot be guaranteed. Your chemical supplier is the best source for definitive material compatibility. Careful consideration must be given to all characteristics of the chemical and process system including chemical concentration, installation conditions, pressure, and temperature before a final material is selected.

Although the information set forth herein is presented in good faith and believed to be correct at date of issuance, LMI makes no guarantee or representation as to the completeness or accuracy thereof, and disclaims all liability for any loss or damage resulting from use or reliance upon any information, recommendations or suggestions contained herein. LMI MAKES NO EXPRESS OR IMPLIED REPRESENTATIONS OF WARRANTIES AS TO THE FITNESS, MERCHANTABILITY, OR ANY OTHER MATTER WITH RESPECT TO THE INFORMATION CONTAINED HEREIN OR ANY PRODUCT OR SUBSTANCE REFERRED TO HEREIN, whether used alone or in combination with any other material. Nothing contained herein is to be construed as a recommendation to use any product in conflict with any patent. The information is subject to change without notice.

These materials represent the majority of standard liquid end materials used with products we manufacture.

As always, you can rely on your LMI distributor to help with standard and unique applications. Refer to the most current chemical resistance guide by scanning the QR Code or searching for “chemical resistance guide” on <https://support.lmipumps.com>

MATERIAL DESCRIPTIONS

METAL WETTED COMPONENTS

316 Stainless Steel – alloy of iron, carbon, nickel and chromium. A nonmagnetic stainless steel with more ductility than 400SS. Austenitic in structure, 316 stainless steel has excellent corrosion resistance to a wide range of chemicals. It is not susceptible to stress corrosion cracking or affected by heat treatment. 316 stainless steel is the most widely used material for pump heads, check valves, balls and other wetted components.

Alloy 20 – contains more nickel and chromium than 300 series stainless steel and with the addition of columbium that retards stress corrosion cracking and has improved resistance to sulfuric acid.

Alloy C – a high nickel-chromium molybdenum alloy that has outstanding resistance to a wide variety of chemical process environments, including strong oxidizers such as sodium hypochlorite, and ferric chloride. Alloy C is also resistant to nitric, hydrochloric, and sulfuric acids at moderate temperatures. It's often used as spring material in check valves of non-metallic pumps. Two grades of Alloy C are used in pump components, C276® and C22®. The two grades differ slightly in chemical compatibility, so care should be taken in the selection process.



NON-METAL WETTED COMPONENTS

Acrylic – resistant to many chemicals. Acrylic is often favored over other plastics for use as pump head material because it is clear and enables the user to observe pump performance.

Ceramic – Is used for seats, weights and ball checks in a number of pump products. Ceramic has the advantages of having a high level of hardness while being very corrosion resistant to a wide range of chemicals even at elevated temperatures. Alumina is not compatible with some chemicals such as hydrofluoric, hydrofluorosilicic, and hydrochloric acids.

Polyethylene – has excellent chemical resistance to strong acids and bases. It is also resistant to gentle oxidants and reducing agents. Its primary use in pumps is as a seat material in pump heads made primarily of other plastic materials.

Polypropylene – is generally high in chemical resistance but slightly lower in physical properties compared to PVC. It is chemically resistant to organic solvents, acids, and alkalines. It is typically not effective when in contact with strong oxidizing acids, chlorinated hydrocarbons, and aromatics.

PVC – PVC is the most frequently specified of all thermoplastic materials. It is characterized by high physical properties and resistance to corrosion and chemical attack by acids, alkalines, salt solutions, and many other chemicals. It is not successful handling ketones, some chlorinated hydrocarbons, and aromatics. The maximum service temperature of PVC is 140°F. PVC pipe connections can be solvent cemented (recommended for many chemicals) threaded, or flanged.

PVDF – a strong and abrasion-resistant fluorocarbon material. It resists distortion and retains most of its strength to 280°F. PVDF is excellent with most acids, bases, and organic solvents. It also applies well to chlorine, bromine and other halogens. No other plastic material approaches the combination of strength, chemical resistance and working temperatures of PVDF. PVDF is joined by a fusion process, threading or flanging.

NOTE: For applications where Alloy C springs are not compatible, PVDF coated springs are available.

NOTE: For unlisted chemicals, consult your LMI distributor or chemical manufacturer.

NOTE REFERENCES

1. Consult LMI distributor
2. Absorption of moisture from the air dilutes chemical and increases corrosion.
3. Consult LMI distributor for assistance
4. Consult LMI distributor - Slurry - use HV liquidends
5. Liquified gas - consult LMI distributor
6. Polypropylene only good to 38% concentration.
7. Polypropylene, PEEK, and FKM up to 80 % concentration.
8. Recommend liquid end flush
9. Recommend liquid end flushing
10. Subject to gas binding - use degassing head.
11. Use 316 ss if Titanium Dioxide must remain white
12. Use degassing head, double ball checks, Polyethylene must be HDPE
13. Use liquid ends with HV options
14. Use high alumina ceramic ball checks
15. Use HV liquid ends
16. Use PTFE ball checks
17. Use slurry checks
18. Usually requires high temp options - Consult LMI distributor
19. Volatile with hydrocarbons - Subject to gas binding - use degassing head.
20. Can be very corrosive - recommend plastics
21. High specific gravity - use spring loaded checks

ELASTOMERS AND SEALS

8

POLYPREL® (TFE/P) – is a copolymer of tetrafluoroethylene and propylene with a fluorine content of about 54%. This material is resistant to petroleum products and phosphate-esters. Service temperatures are -25°F to 400°F. Polyprel® provides improved chemical resistance to a wide spectrum of oils, rust inhibitors, amines, acids and bases. Polyprel® is typically used for o-rings in various pump models.

Nitrile (Buna-N) – a general purpose oil-resistant polymer known as nitrile rubber. Nitrile is a copolymer of butadiene and acrylonitrile with a moderate temperature range of -20°F to 180°F. Nitrile is resistant with solvents, oils, water, and hydraulic fluid. Nitrile should not be used with highly polar solvents such as acetone and methyl ethyl ketone, or in applications with chlorinated hydrocarbons, ozone or nitro hydrocarbons. In metering pumps Nitrile is primarily used for o-ring seals.

EPDM – EPDM has good abrasion and tear resistance and offers excellent chemical resistance to a variety of acids and alkalines. It is susceptible to attack by oils and is not recommended for applications involving petroleum oils, strong acids, or strong alkalines. It is fairly good with ketones and alcohols and has a temperature range from -20°F to 250°F.

PEEK – Polyetheretherketone is a high-performance engineered thermoplastic that can be used as diaphragm material when an application exceeds PTFE temperature or tensile strength limits. PEEK can be used up to 550°F.

PTFE/FLUOROFILM™ – has outstanding resistance to chemical attack by most chemicals and solvents. PTFE has a wide temperature rating of -20°F to 400°F as a seal. It is also used as the primary material in diaphragms where temperature limits vary based on backing material. FluoroFilm™ is a copolymer of PTFE and PFA.

FKM – compatible with a broad range of chemicals. FKM is usually used for o-rings, and as a backing material for PTFE diaphragms. It can also be used for ball checks. FKM can be used in most applications involving mineral acids, salt solutions, chlorinated hydrocarbons, and petroleum oils. It is also good in hydrocarbon service. FKM has a temperature range of -20°F to 300°F.

Solution Temperature Maximum

For liquid handling components of LMI metering pumps operation at 100 psi (6.9 Bar)

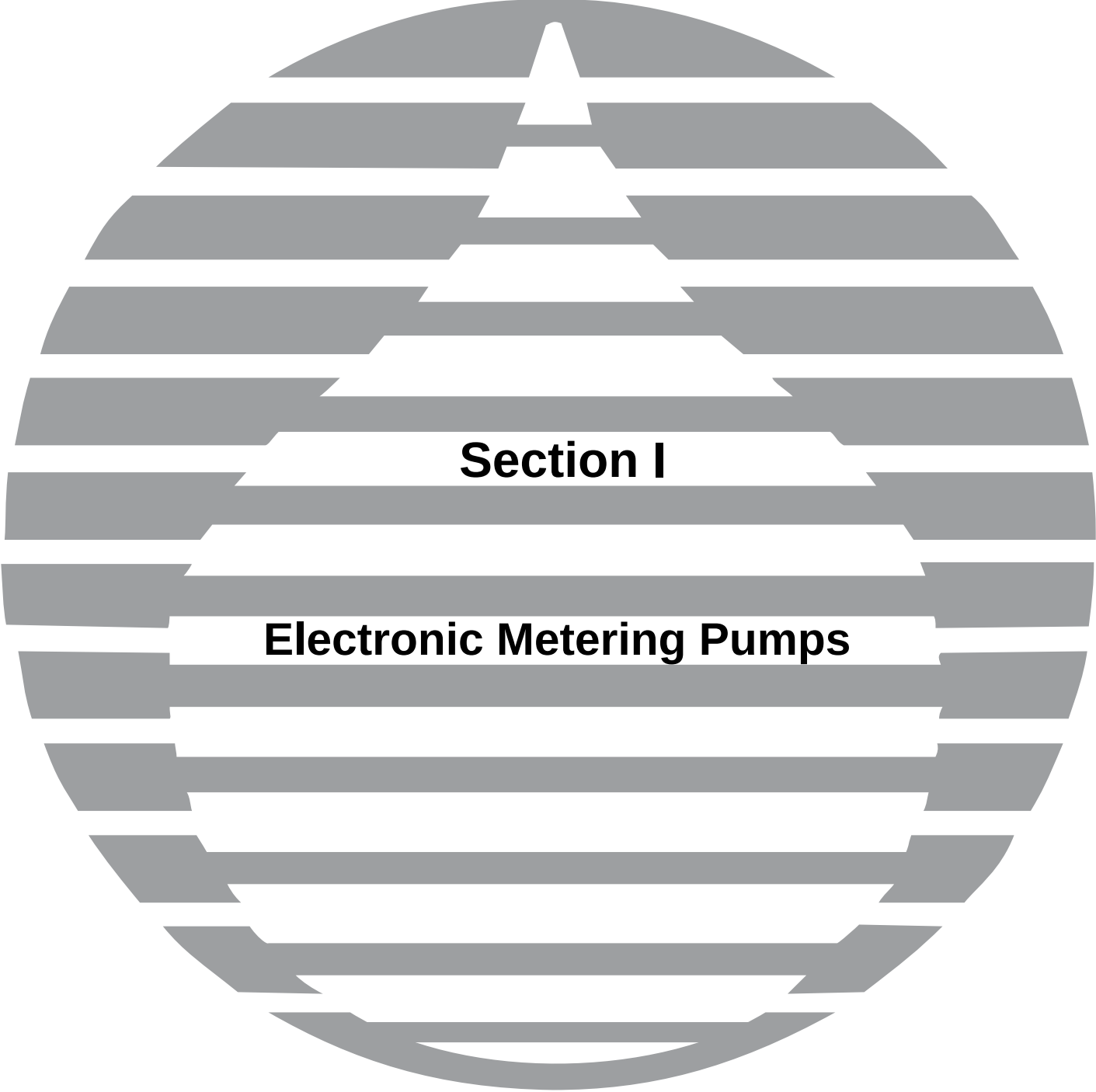
Material	Example Of Use	Temperature °F	°C
PVDF (Carbon Fiber Reinforced)	Fittings and Pump Head	250*	121*
Polyprel® (TFE/P)	Seal Rings	250*	121*
Polypropylene	Fittings and Pump Head	170	77
Polyvinyl Chloride Rigid (PVC)	Fittings and Pump Head	140	60
Polyvinyl Chloride (Flexible Vinyl)	Suction Tubing	140	60
Polyethylene	Discharge Tubing	110	43
Acrylic	Pump Head	140	60
PTFE	Liquifram™ and Seal Rings	250*	121*
FKM	Diaphragm and Seal Rings	225	107
Stainless Steel (316)	Fittings and Pump Head	250*	121*
Copolymer PTFE	Liquifram™	250*	121*
Alloy C	Spring	250*	121*
EPDM	Seal Rings	225	107
CPVC	Pipe and Corp Stop	180	82
Nitrile (Buna-N)	Gasket and Corp Stop	220	104
PEEK	Diaphragm	550	288
Alloy 20	Balls and Seats	250*	121*
Ceramic	Balls	250*	121*

RATINGS:**A** - Excellent**B** - Use with caution**C** - Do not use**_ (Underscore)** - Insufficient Data**Temperature** - Good up to listed temperature

Material Code	2	3	5	7	8	9	0	Note Reference
Head	PVDF	PVDF	PP	316ss	PVC	Acrylic	Acrylic	
Fittings	PVDF	PVDF	PP	316ss	PVC	PVDF	PVC	
Balls	Ceramic	Ceramic	Ceramic	316ss	Ceramic	PTFE	Ceramic	
Seats	Polyprel®	PTFE	PTFE	316ss	Polyprel®	Polyprel®	PTFE	
O-Rings	Polyprel®	PTFE	PTFE	PTFE	Polyprel®	Polyprel®	Polyprel®	
Chemical	Liquid End Chemical Resistance Rating							#
Acetic Acid 10%	C	A 220°F	A 250°F	A 250°F	C	C	C	
Acetic Acid 80%	C	A 150°F	C	C	C	C	C	
Acetic Acid Glacial	C	A 125°F	A 68°F	A 250°F	C	C	C	
Acetic Anhydride	C	C	C	A 250°F	C	C	C	
Alum (general - see specific chemical)				C		A		
Aluminum Chloride	A 230°F	A 212°F	A 212°F	A 212°F	A	A 212°F	A 212°F	
Aluminum Hydroxide				A 212°F		A 212°F		
Aluminum Sulfate		A 212°F	A 212°F	A 212°F				
Amines				A				
Amines (filming)			C	A				
Ammonia Solutions	C	C	A 250°F	A 250°F				
Ammonia, Anhydrous	C	C		A 250°F		C	C	
Ammonium Sulfate	C	A 230°F	A 250°F	A 250°F	C	C	C	
Bromine	B 125°F	A 125°F	C	C	C	C	C	
Calcium Carbonate	A 230°F	A 230°F	A 250°F	A 250°F	A	A 230°F	A 250°F	
Calcium Chloride	A 230°F	A 230°F	A 250°F	A 250°F	C	A	A 230°F	A 250°F
Calcium Hydroxide	A 230°F	A 212°F	A 212°F	A 212°F	A	A 212°F	A 212°F	
Calcium Hypochlorite	A 200°F	A 200°F	A 212°F	C	A	A 200°F	A 212°F	
Carbolic Acid (See Phenol)			A 250°F	A 250°F				
Carbonic Acid	A 230°F	A 230°F	A 250°F	A 250°F	A	A 230°F	A 250°F	
Chlorine Dioxide		B						
Chromic Acid 10%	A 175°F	A 175°F	A 250°F		A	C	C	
Chromic Acid 50% below 60°F	A 125°F	A 125°F	C	A 250°F	A	C	C	
Chromic Acid 50% to 140°F	A 125°F	A 125°F	C	C	A	C	C	
Citric Acid	A 230°F	A 212°F	A 212°F	A 212°F	A	A 212°F	A 212°F	
Copper Sulfate				A 212°F		A 212°F		
Copper Sulfate (5% Solution)	A 230°F	A 212°F		A 212°F		A 212°F		
Detergents			A 250°F		B		B 250°F	
Ethyl Acetate	C	C	C	A 250°F	C	C	C	
Ethyl Chloride	A 230°F	A 230°F	C	A 250°F	C	C	C	
Ethylene Glycol	A 230°F	A 230°F	A 250°F	A 250°F	A	A 230°F	A 250°F	
Ferric Chloride				C		A 230°F		8
Ferric Nitrate				A 250°F		A 230°F		
Ferric Sulfate	A 230°F	A 230°F	A 250°F	A 250°F	A	A 230°F	A 250°F	1
Ferrous Chloride				C		A 230°F		
Ferrous Sulfate	A 230°F	A 230°F	A 250°F	C	A	A 230°F	A 250°F	
Fluosilicic Acid	C	C	C	C	C	A 230°F	C	16
Glycerine	A 230°F	A 230°F	A 250°F	A 250°F	A	A 230°F	A 250°F	
Hydrobromic Acid 50%				C		A 230°F		3
Hydrochloric Acid	B 230°F	B 230°F	B 250°F	C	B	A 230°F	B 250°F	6
Hydrochloric Acid- Anhydrous		B 230°F	C	C				3
Hydrofluoric Acid 30%	C	C	C	C	C	C	C	16
Hydrofluoric Acid 75%	C	C	C	C	C	C	C	16
Hydrofluoric Acid 100%	C	C	C	C	C	C	C	16
Hydrofluosilicic Acid	C	C	C	C	C	A 212°F	C	16
Hydrogen Peroxide - Consult LMI Distributor	C	A 250°F	A 250°F	C	A 250°F	C		19
Hydrogen Sulfide, Aqueous	A 230°F	A 230°F	A 250°F	A 250°F	A	A 230°F	A 250°F	
Iodine Solutions			C	C	C	A 150°F	C	
Isopropyl Alcohol	A 140°F	A 140°F	A 250°F	C	A	C	C	
Lactic Acid (over 60% to 100°F)	A 125°F	A 125°F	C	C	C	A 125°F	C	
Lactic Acid (to 60% to 100°F)	A 125°F	A 125°F	C	C	C	A 125°F	C	
Lime Slurries				A 212°F	C			13
Magnesium Chloride	A 230°F	A 230°F	A 250°F	C	A	A 230°F	A 250°F	
Magnesium Hydroxide	A 230°F	A 230°F	A 250°F	A 250°F	A	A 230°F	A 250°F	17
Magnesium Nitrate	A 230°F	A 230°F	A 250°F	A 250°F	A	A 230°F	A 250°F	
Magnesium Sulfate				A 250°F				
Maleic Acid				A 250°F				
Malic Acid			C	A 250°F				
Methanol (Methyl Alcohol 100%)	A 230°F	A 230°F	A 250°F	A 250°F	A	C	C	
Mineral Oil	A 230°F	A 230°F	A 250°F	A 250°F	C	A 230°F	C	
Nitric Acid 10%	A 175°F	A 175°F	C	A 250°F	A	C	C	
Nitric Acid 70% to 100°F	B 125°F	A 125°F	C	C	B	C	C	
Nitric Acid Concentrated	B	A 70°F	C	A 70°F	C	C	C	
Peracetic Acid (PAA)		A	A					12
Phosphoric Acid	A 220°F	A 220°F	A 250°F	A 250°F	C	A 220°F	A 250°F	7

RATINGS:**A** - Excellent**B** - Use with caution**C** - Do not use**_ (Underscore)** - Insufficient Data**Temperature** - Good up to listed temperature

Material Code	2	3	5	7	8	9	0	Note Reference
Head	PVDF	PVDF	PP	316ss	PVC	Acrylic	Acrylic	
Fittings	PVDF	PVDF	PP	316ss	PVC	PVDF	PVC	
Balls	Ceramic	Ceramic	Ceramic	316ss	Ceramic	PTFE	Ceramic	
Seats	Polyprel®	PTFE	PTFE	316ss	Polyprel®	Polyprel®	PTFE	
O-Rings	Polyprel®	PTFE	PTFE	PTFE	Polyprel®	Polyprel®	Polyprel®	
Chemical	Liquid End Chemical Resistance Rating							#
Phthalic Acid	—	—	—	A 250°F	C	B 200°F	C	
Potassium Bicarbonate	—	A 200°F	A 250°F	A 250°F	—	—	—	
Potassium Bromide	C	C	C	A 250°F	C	A 230°F	C	
Potassium Carbonate	—	C	C	A 250°F	—	—	—	
Potassium Chlorate	B 200°F	B 200°F	B 250°F	A 250°F	B	A 200°F	B 250°F	
Potassium Chloride	—	—	—	A 250°F	—	A 230°F	—	
Potassium Fluoride	—	—	—	A 250°F	C	—	—	
Potassium Hydroxide	A	A 250°F	A 250°F	A 250°F	A	A 250°F	A 250°F	
Potassium Nitrate	B 230°F	B 230°F	B 250°F	A 250°F	B	A 230°F	B 250°F	
Potassium Permanganate	A 230°F	A 230°F	C	A 250°F	A	A 230°F	A 250°F	1
Potassium Sulfate	A 230°F	A 230°F	A 250°F	A 250°F	A	A 230°F	A 250°F	
Potassium Sulfide	—	A 230°F	A 250°F	A 250°F	—	—	—	
Soda Ash (See Sodium Carbonate)	—	—	—	—	—	A 230°F	—	8
Sodium Acetate	C	A 230°F	A 250°F	A 250°F	C	C	C	
Sodium Aluminate	—	—	—	A 212°F	C	—	—	1
Sodium Aluminum Sulfate (Soda Alum)	—	—	—	A	C	—	—	
Sodium Bicarbonate	A 230°F	A 230°F	A 250°F	A 250°F	A	A 230°F	A 250°F	
Sodium Bisulfate (to 100°F)	A 230°F	A 230°F	A 250°F	C	A	A 230°F	A 250°F	
Sodium Bisulfite (to 100°F)	A 230°F	A 230°F	A 250°F	A 250°F	A	A 230°F	A 250°F	
Sodium Borate (Borax)	A 230°F	A 230°F	A 250°F	A 250°F	A	A 230°F	A 250°F	
Sodium Carbonate (Soda Ash)	A 230°F	A 230°F	A 250°F	A 250°F	A	A 230°F	A 250°F	
Sodium Chlorate	—	A 230°F	A 250°F	A 250°F	—	—	—	
Sodium Chloride	—	—	A 250°F	A 250°F	C	—	A 250°F	
Sodium Cyanide	A 230°F	A 230°F	A 250°F	A 250°F	A	A 230°F	A 250°F	
Sodium Fluoride	C	C	C	C	C	A 230°F	C	16
Sodium Hydroxide 20% (75° to 210°F)	A	A 250°F	—	A 250°F	A	A 250°F	A 250°F	
Sodium Hydroxide 20% (to 75°F)	A	A 250°F	A 250°F	A 250°F	A	A 250°F	A 250°F	
Sodium Hydroxide 50% (75°F)	A	A 250°F	C	A 250°F	A	A 250°F	A 250°F	1
Sodium Hydroxide 50% (75° to 175°F)	A	A 250°F	—	A 250°F	A	A 250°F	A 250°F	1
Sodium Hypochlorite	A 200°F	A 200°F	C	C	A	A 200°F	A 250°F	10
Sodium Nitrate	C	A 230°F	A 250°F	A 250°F	C	C	C	
Sodium Permanganate	—	—	C	A	—	—	—	
Sodium Peroxide	—	—	—	A 250°F	C	—	—	
Sodium Polyphosphate	—	—	—	A 212°F	—	—	—	
Sodium Silicate	A	A 250°F	A 250°F	A 250°F	C	A 250°F	C	9
Sodium Sulfate	A	A 250°F	A 250°F	A 250°F	A	A 250°F	A 250°F	
Sodium Sulfide	A	A 250°F	A 250°F	A 250°F	C	—	—	
Sodium Sulfite	—	—	—	A 250°F	—	—	—	
Sulfuric Acid (40% to 95%)	A 200°F	A 200°F	C	C	B or C	C	C	2
Sulfuric Acid (95% to 100%)	A 125°F	A 125°F	C	C	B or C	C	C	2
Sulfuric Acid (up to 40%)	A 230°F	A 230°F	A 250°F	C	B or C	C	C	2
Tannic Acid	B 230°F	A 230°F	A 250°F	A 250°F	B	—	—	
Vinegar	A 230°F	A 230°F	A 250°F	A 250°F	A	A 230°F	A 250°F	
Water, Deionized	—	B 230°F	B 250°F	A 250°F	—	—	—	20
Water, Distilled	—	—	—	A	—	—	—	
Water, Fresh	A 230°F	A 230°F	—	—	—	A 230°F	—	
Water, Salt	B 230°F	B 230°F	B 250°F	A 250°F	B	A 230°F	B 250°F	
Xylene	C	A 200°F	C	A 250°F	C	C	C	
Zinc Chloride	C	C	C	C	C	A 230°F	C	
Zinc Sulfate	C	C	C	A 250°F	C	A 230°F	C	



Section I

Electronic Metering Pumps

Each LMI Metering Pump series is designed to meet user needs for specific application and installation requirements. Within each series there are a number of options for controls, liquid end designs and materials, power, and various other accessories and features.

The following product pages are presented in two groups so each can be described by the features offered:

Series PD and EXCEL™ AD - Share LMI's latest generation of FastPrime and AutoPrime liquid ends.

Series B, C, and E - Share LMI LiquiPro and Legacy generation liquid ends.

Each section has a page in the beginning that describes the features and options available.

Note: All standard plastic liquid ends are shipped with PE tubing. PE tubing is not recommended for all applications, therefore, please refer to the LMI Chemical Resistance chart for material compatibility. When PE tubing is not suitable for the application, please contact your local master distributor for alternative tubing materials.

Application Notes

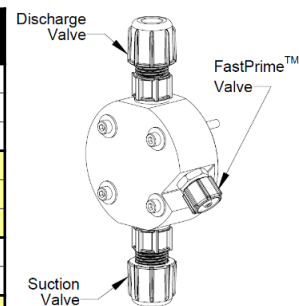
- **Off-gassing Fluids (such as Sodium Hypochlorite)** - Each pump series that offers special designs for these fluids has a separate selection table at the end of the pump selection (reference AUTOPRIME™ Liquid Ends). Pumps designed to handle these fluids are specially designed to automatically bleed a portion of the process chemical in order to eliminate gas binding of the liquid end. The pump capacity ratings take into account the continuous bleed. For applications of off-gassing liquids such as sodium hypochlorite or hydrogen peroxide, "AI" or "HI" liquid ends with AUTOPRIME™ heads or valves are recommended. An "HI" liquid end adds a 4FV to the "AI" liquid end. AUTOPRIME™ is available on PVC and Acrylic heads. A 4FV on the "HI" head enables safe pressure release of process fluid.
- **Explosion-Proof Applications** - LMI's Series E pumps are designed to operate in hazardous areas requiring explosion proof equipment.
- **High Viscosity Fluids, Polymers** - Use EXCEL™ AD Series High Viscosity Liquid End Assemblies 624xx, 626xx, 634xx, 636xx, 644xx or 646xx with corresponding size drive assembly. For B, C, E, and J pump series, use Liquid End Assemblies 20HV, 25HV, 75HV, 76HV, 85HV, or 86HV with corresponding size drive assembly. Pump output may be reduced in some applications. Also, please note that no foot valve is included with HV liquid ends.
- **Stainless Steel Liquid Ends** - Liquid End Assemblies with a "7" in the second or third position. Please note no foot valve or injection valves are included with these Stainless Steel liquid ends. 316ss liquid ends are only available in NPT connections and without 4 function valves. Separate back pressure and safety valves are available in the accessory section.
- **Accessories** - Contact your LMI distributor to discuss the variety of LMI accessories designed to make the installation and operation of your LMI pump easier and more efficient.
- **Hastelloy® C Head Screws** - are available for pumps that will be used with strong acids or other applications where Hastelloy® C will provide better results than the standard 316 S.S. head screws. Please refer to the LMI Chemical Resistance chart and to your chemical supplier for suggested materials. See head screw kits: #37144 and #38735.
- **UV Resistant Tubing** - Black UV resistant tubing kits are available as item numbers #54783, #54784, and #54793. Each UV Tubing Kit will contain (1) six foot 1/4 inch diameter bleed line and (1) sixteen foot suction/discharge line in either a 1/4 inch, 3/8 inch or 1/2 inch diameter (respectively)

SERIES PD METERING PUMPS



FastPrime™ Liquid Ends*

Output	PSI	GPH	BAR	LPH
PDx1	450	0.10	30.6	0.38
	300	0.20	20.4	0.76
	150	0.25	10.2	0.95
PDx4	250	0.35	17.0	1.32
	150	0.52	10.2	1.97
	50	0.68	3.4	2.57
PDx5	110	1.00	7.5	3.79
	30	1.10	2.0	4.20
PDx6	50	2.00	3.4	7.57



For support:



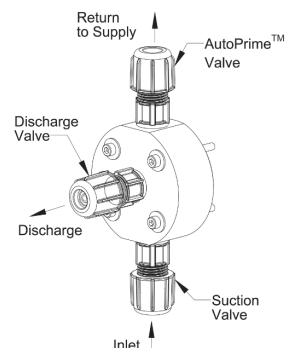
Control Codes

Key Features	PD0	PD7
Stroke frequency manually adjustable	✓	✓
Pulse signal input controls frequency		✓
Remote Start/Stop		✓
Low level float switch input		✓
Enhanced functionality		
• Calibration assist		✓
• System & user totalizer		
• StayPrime™ Degassing Technology		

FastPrime™ Has an integral manual priming valve to facilitate quick pump start-up. Standard on PD0 and PD7 models

AutoPrime™ Liquid Ends

Output	PSI	GPH	BAR	LPH
PDx4	250	0.20	17.3	0.76
	150	0.30	10.3	1.14
PDx5	110	0.75	7.6	2.8
	50	0.85	3.4	3.22
PDx6	50	1.75	3.4	6.6
	30	1.85	2.0	7.0



AutoPrime™ Allows for the constant removal of vapors and gases present in applications like sodium hypochlorite and hydrogen peroxide.



MFV Multifunction Valve

- This diaphragm type, anti-syphon/pressure relief valve is installed on the pump head.
- Can be oriented as required (360°) at precisely the desired position.
- Easier to use thanks to the more user-friendly design of the priming knobs and back pressure valve

What's in the Box

PD Series units include:



Tube Connection Hardware

Quick Start Guide



Suction/Discharge & Bleed Tubing



Injection Check Valve



Foot Valve



Ceramic Weight

PD7 units include:



5-pin Control Cable

Note: Depending on the configuration of the LE, some of the items may not be included in the box.

SERIES PD METERING PUMP SELECTION

14

OUTPUT CODE 1

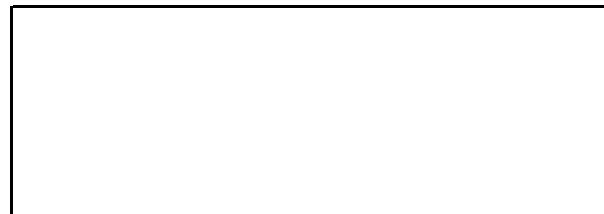
160 SPM Max.

Size Code 0

0.25 GPH (0.95 LPH); 450 psi (30.6 bar)

PDx1								
Drive End								
Control								
PD01 Manual Control								
PD71 Enhanced control with Pulse Input, Remote Stop/Start, and Tank Level Input								
		Power Code	Voltage	Frequency	Plug			
		1	Universal	50-60 HZ	110 - 120V US Plug, UL			
		2	Universal	50-60 HZ	220 - 240V US Plug, UL			
		3	Universal	50-60 HZ	220 - 240V DIN Plug, CE			
		5	Universal	50-60 HZ	220 - 240V UK Plug, CE			
		6	Universal	50-60 HZ	220 - 240V Aust/NZ Plug			
		Liquid End	Head	Fittings	Balls	Seat / O-Ring	Connections	RPM Kit
		FastPrime™ Machined						
		907NP	316SS	316SS	316SS	316SS / PTFE	1/4" NPT	RPM-907
PD01	1	-907NP						

RPM Kit	Contents
RPM-907	*Liquifram *Shaft Seal *Suction Check Valve *Discharge Check Valve



SERIES PD METERING PUMP SELECTION

15

OUTPUT CODE 4

0.68 GPH (2.57 LPH); 250 psi (17.0 bar)

160 SPM Max.

Size Code 2

Autoprime™ 0.20 GPH (0.76 LPH); 250 psi (17.0 bar)

PDx4								
Drive End								
Control								
PD04 Manual Control								
PD74 Enhanced control with Pulse Input, Remote Stop/Start, and Tank Level Input								
Power Code	Voltage	Frequency	Plug					
1	Universal	50-60 HZ	110 - 120V US Plug, UL					
2	Universal	50-60 HZ	220 - 240V US Plug, UL					
3	Universal	50-60 HZ	220 - 240V DIN Plug, CE					
5	Universal	50-60 HZ	220 - 240V UK Plug, CE					
6	Universal	50-60 HZ	220 - 240V Aust/NZ Plug					
Liquid End	Head	Fittings	Balls	Function Valve	Connections	Seat / O-Ring	RPM Kit	
FastPrime™ Molded								
822NI	PVDF	PVDF	Ceramic	-	PE 1/4" O.D.	Polyprel®	RPM-822	
822SI	PVDF	PVDF	Ceramic	FV	PE 1/4" O.D.	Polyprel®	RPM-822	
823NI	PVDF	PVDF	Ceramic	-	PE 1/4" O.D.	PTFE	RPM-823	
823SI	PVDF	PVDF	Ceramic	FV	PE 1/4" O.D.	PTFE	RPM-823	
828NI	PVC	PVC	Ceramic	-	PE 1/4" O.D.	Polyprel®	RPM-822	
828SI	PVC	PVC	Ceramic	FV	PE 1/4" O.D.	Polyprel®	RPM-822	
FastPrime™ Machined								
925NI	PP	PP	Ceramic	-	PE 1/4" O.D.	PTFE	RPM-823	
925SI	PP	PP	Ceramic	FV	PE 1/4" O.D.	PTFE	RPM-823	
927NP	316SS	316SS	316SS		1/4" NPT	316SS / PTFE	RPM-927	
928NI	PVC	PVC	Ceramic	-	PE 1/4" O.D.	Polyprel®	RPM-822	
928SI	PVC	PVC	Ceramic	FV	PE 1/4" O.D.	Polyprel®	RPM-822	
929NI	Acrylic	PVDF	PTFE	-	PE 1/4" O.D.	Polyprel®	RPM-929	
929SI	Acrylic	PVDF	PTFE	FV	PE 1/4" O.D.	Polyprel®	RPM-929	
920NI	Acrylic	PVC	Ceramic	-	PE 1/4" O.D.	Polyprel®	RPM-822	
920SI	Acrylic	PVC	Ceramic	FV	PE 1/4" O.D.	Polyprel®	RPM-822	
AutoPrime™ De-gas								
A28AI	PVC	PVC	Ceramic	-	PE 1/4" O.D.	PTFE / Polyprel®	RPM-A20A	
A28HI	PVC	PVC	Ceramic	FV	PE 1/4" O.D.	PTFE / Polyprel®	RPM-A20A	
A20AI	Acrylic	PVC	Ceramic	-	PE 1/4" O.D.	PTFE / Polyprel®	RPM-A20A	
A20HI	Acrylic	PVC	Ceramic	FV	PE 1/4" O.D.	PTFE / Polyprel®	RPM-A20A	
PD04	1	- 822NI						

RPM Kit	Contents
FastPrime™	
RPM-822	*O Rings
RPM-823	*Shaft Seal
RPM-927	*Liquifram
RPM-929	*Check Valve Cartridges
	*Injection Valve Cartridge
AutoPrime™ De-gas	
RPM-A20A	*FastPrime or AutoPrime Cartridge



SERIES PD METERING PUMP SELECTION

16

OUTPUT CODE 5

160 SPM Max.

Size Code 3

1.1 GPH (4.2 LPH); 110 psi (7.5 bar)

Autoprime™ 0.75 GPH (2.84 LPH); 110 psi (7.5 bar)

PDx5									
Drive End									
Control									
PD05 Manual Control									
PD75 Enhanced control with Pulse Input, Remote Stop/Start, and Tank Level Input									
	Power Code		Voltage		Frequency		Plug		
	1		Universal		50-60 HZ		110 - 120V US Plug, UL		
	2		Universal		50-60 HZ		220 - 240V US Plug, UL		
	3		Universal		50-60 HZ		220 - 240V DIN Plug, CE		
	5		Universal		50-60 HZ		220 - 240V UK Plug, CE		
	6		Universal		50-60 HZ		220 - 240V Aust/NZ Plug		
		Liquid End	Head	Fittings	Balls	Function Valve	Connections	Seat / O-Ring	RPM Kit
		FastPrime™ Molded							
		832NI	PVDF	PVDF	Ceramic	-	PE ⅜" O.D.	Polyprel®	RPM-832
		832SI	PVDF	PVDF	Ceramic	FV	PE ⅜" O.D.	Polyprel®	RPM-832
		833NI	PVDF	PVDF	Ceramic	-	PE ⅜" O.D.	PTFE	RPM-833
		833SI	PVDF	PVDF	Ceramic	FV	PE ⅜" O.D.	PTFE	RPM-833
		838NI	PVC	PVC	Ceramic	-	PE ⅜" O.D.	Polyprel®	RPM-832
		838SI	PVC	PVC	Ceramic	FV	PE ⅜" O.D.	Polyprel®	RPM-832
		FastPrime™ Machined							
		935NI	PP	PP	Ceramic	-	PE ⅜" O.D.	PTFE	RPM-833
		935SI	PP	PP	Ceramic	FV	PE ⅜" O.D.	PTFE	RPM-833
		937NP	316SS	316SS	316SS		1/4" NPT	316SS / PTFE	RPM-937
		938NI	PVC	PVC	Ceramic	-	PE ⅜" O.D.	Polyprel®	RPM-832
		938SI	PVC	PVC	Ceramic	FV	PE ⅜" O.D.	Polyprel®	RPM-832
		939NI	Acrylic	PVDF	PTFE	-	PE ⅜" O.D.	Polyprel®	RPM-939
		939SI	Acrylic	PVDF	PTFE	FV	PE ⅜" O.D.	Polyprel®	RPM-939
		930NI	Acrylic	PVC	Ceramic	-	PE ⅜" O.D.	Polyprel®	RPM-832
		930SI	Acrylic	PVC	Ceramic	FV	PE ⅜" O.D.	Polyprel®	RPM-832
		AutoPrime™ De-gas							
		A38AI	PVC	PVC	Ceramic	-	PE ⅜" O.D.	PTFE / Polyprel®	RPM-A30A
		A38HI	PVC	PVC	Ceramic	FV	PE ⅜" O.D.	PTFE / Polyprel®	RPM-A30A
	A30AI	Acrylic	PVC	Ceramic	-	PE ⅜" O.D.	PTFE / Polyprel®	RPM-A30A	
	A30HI	Acrylic	PVC	Ceramic	FV	PE ⅜" O.D.	PTFE / Polyprel®	RPM-A30A	
PD05	1	- 832NI							

RPM Kit	Contents
FastPrime™	
RPM-832	*O Rings
RPM-833	*Shaft Seal
RPM-937	*Liquifram
RPM-939	*Check Valve Cartridges
	*Injection Valve Cartridge
AutoPrime™	
RPM-A30A	*FastPrime or AutoPrime Cartridge



SERIES PD METERING PUMP SELECTION

17

OUTPUT CODE 6

160 SPM Max.

Size Code 4

2.0 GPH (7.57 LPH); 50 psi (3.4 bar)

Autoprime™ 1.75 GPH (6.62 LPH); 50 psi (3.4 bar)

PDx6								
Drive End								
Control								
PD06 Manual Control								
PD76 Enhanced control with Pulse Input, Remote Stop/Start, and Tank Level Input								
Power Code	Voltage	Frequency	Plug					
1	Universal	50-60 HZ	110 - 120V US Plug, UL					
2	Universal	50-60 HZ	220 - 240V US Plug, UL					
3	Universal	50-60 HZ	220 - 240V DIN Plug, CE					
5	Universal	50-60 HZ	220 - 240V UK Plug, CE					
6	Universal	50-60 HZ	220 - 240V Aust/NZ Plug					
Liquid End	Head	Fittings	Balls	Function Valve	Connections	Seat / O-Ring	RPM Kit	
FastPrime™ Molded								
842NI	PVDF	PVDF	Ceramic	-	PE 3/8" O.D.	Polyprel®	RPM-842	
842SI	PVDF	PVDF	Ceramic	FV	PE 3/8" O.D.	Polyprel®	RPM-842	
843NI	PVDF	PVDF	Ceramic	-	PE 3/8" O.D.	PTFE	RPM-843	
843SI	PVDF	PVDF	Ceramic	FV	PE 3/8" O.D.	PTFE	RPM-843	
848NI	PVC	PVC	Ceramic	-	PE 3/8" O.D.	Polyprel®	RPM-842	
848SI	PVC	PVC	Ceramic	FV	PE 3/8" O.D.	Polyprel®	RPM-842	
FastPrime™ Machined								
945NI	PP	PP	Ceramic	-	PE 3/8" O.D.	PTFE	RPM-843	
945SI	PP	PP	Ceramic	FV	PE 3/8" O.D.	PTFE	RPM-843	
947NP	316SS	316SS	316SS		1/4" NPT	316SS / PTFE	RPM-947	
948NI	PVC	PVC	Ceramic	-	PE 3/8" O.D.	Polyprel®	RPM-842	
948SI	PVC	PVC	Ceramic	FV	PE 3/8" O.D.	Polyprel®	RPM-842	
949NI	Acrylic	PVDF	PTFE	-	PE 3/8" O.D.	Polyprel®	RPM-949	
949SI	Acrylic	PVDF	PTFE	FV	PE 3/8" O.D.	Polyprel®	RPM-949	
940NI	Acrylic	PVC	Ceramic	-	PE 3/8" O.D.	Polyprel®	RPM-842	
940SI	Acrylic	PVC	Ceramic	FV	PE 3/8" O.D.	Polyprel®	RPM-842	
AutoPrime™ De-gas								
A48AI	PVC	PVC	Ceramic	-	PE 3/8" O.D.	PTFE / Polyprel®	RPM-A40A	
A48HI	PVC	PVC	Ceramic	FV	PE 3/8" O.D.	PTFE / Polyprel®	RPM-A40A	
A40AI	Acrylic	PVC	Ceramic	-	PE 3/8" O.D.	PTFE / Polyprel®	RPM-A40A	
A40HI	Acrylic	PVC	Ceramic	FV	PE 3/8" O.D.	PTFE / Polyprel®	RPM-A40A	
PD06	1	- 842NI						

RPM Kit	Contents
FastPrime™	
RPM-842	*O Rings
RPM-843	*Shaft Seal
RPM-947	*Liquifram
RPM-949	*Check Valve Cartridges
	*Injection Valve Cartridge
AutoPrime™ De-gas	
RPM-A40A	*FastPrime or AutoPrime Cartridge



EXCEL™ AD METERING PUMPS



For support:



Output Code	Max Output GPH	Max Output LPH	Max Pressure PSI	Max Pressure Bar
Excel™ AD with FastPrime™				
1	0.21	0.8	250	17.2
4	0.50	1.9	250	17.2
5	1.0	3.8	110	7.6
6	2.0	7.6	50	3.4
Excel™ AD with AutoPrime™				
1	0.15	0.6	250	17.2
4	0.33	1.2	250	17.2
5	0.80	3.0	110	7.6
6	1.80	6.8	50	3.4

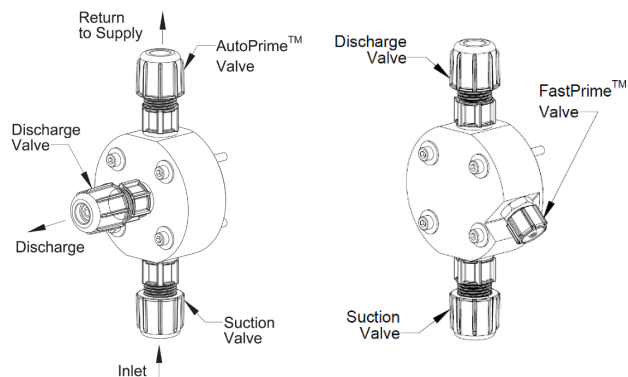
Control Codes

Key Features	AD2	AD8	AD9
Stroke length manually adjustable	✓	✓	✓
Stroke frequency manually adjustable	✓	✓	✓
Low level indication	✓	✓	✓
Display of calculated flow rate	✓	✓	✓
Pulse or 4/20 mA signal input controls frequency		✓	✓
Pulse multiply/divide functions		✓	✓
24 V output for remote device		✓	✓
Dual low-level float switch input		✓	✓
Remote on/off signal input			✓
Outputs include: 4-20mA, pulse, Alarm			✓
Remote internal/external mode input			✓
Remote alarm transfer			✓



MFV Multifunction Valve

- This diaphragm type, anti-syphon/pressure relief valve is installed on the pump head.
- Can be oriented as required (360°) at precisely the desired position.
- Easier to use thanks to the more user-friendly design of the priming knobs and back pressure valve



AutoPrime™

Allows for the constant removal of vapors and gases present in applications like sodium hypochlorite and hydrogen peroxide.

FastPrime™

Has an integral manual priming valve to facilitate quick pump start-up.

What's in the Box

Excel AD units include:						AD9 units include:	
						Certain AD8 units include:	
Tube Connection Hardware	Quick Start Guide	Suction/Discharge Tubing	Injection Check Valve	Foot Valve	Ceramic Weight		
						5-pin Control Cable	6-pin Control Cable

Note: Depending on the configuration of the LE, some of the items may not be included in the box.

EXCEL AD METERING PUMP SELECTION

19

OUTPUT CODE 1

120 SPM Max.

Size Code 1

0.002 to 0.21 GPH (0.01 to 0.8 LPH); 250 psi (17.2 bar)

Autoprime™ 0.0015 to 0.15 GPH (0.006 to 0.6 LPH)

ADx1

Drive End								
Control								
AD21 Dual Manual Control (dual power supply)								
AD81 Pulse/Analog Input w/ Dual Manual Control (universal power supply)								
AD91 Pulse/Analog Input w/ Dual Manual Control - Advanced Features (universal power supply)								
Power Code	Voltage	Frequency	Plug					
1	Dual or Universal	50-60 HZ	110 - 120V US Plug					
2	Dual or Universal	50-60 HZ	220 - 240V US Plug					
3	Dual or Universal	50-60 HZ	220 - 240V DIN Plug					
5	Dual or Universal	50-60 HZ	220 - 240V UK Plug					
6	Dual or Universal	50-60 HZ	220 - 240V Aust/NZ Plug					
Liquid End	Head	Fittings	Balls	Function Valve	Connections	Seat / O-Ring	RPM Kit	
FastPrime™ Machined								
910NI	Acrylic	PVC	Ceramic	-	PE ¼" O.D.	PTFE/Polyprel®	RPM-812	
910SI	Acrylic	PVC	Ceramic	FV	PE ¼" O.D.	PTFE/Polyprel®	RPM-812	
915NI	PP	PP	Ceramic	-	PE ¼" O.D.	PTFE	RPM-813	
915SI	PP	PP	Ceramic	FV	PE ¼" O.D.	PTFE	RPM-813	
918NI	PVC	PVC	Ceramic	-	PE ¼" O.D.	PTFE/Polyprel®	RPM-812	
918SI	PVC	PVC	Ceramic	FV	PE ¼" O.D.	PTFE/Polyprel®	RPM-812	
919NI	Acrylic	PVDF	PTFE	-	PE ¼" O.D.	Polyprel®	RPM-919	
919SI	Acrylic	PVDF	PTFE	FV	PE ¼" O.D.	Polyprel®	RPM-919	
917NP	316SS	316SS	316SS	-	¼" NPT	316SS/PTFE	RPM-917	
FastPrime™ Molded								
812NI	PVDF	PVDF	Ceramic	-	PE ¼" O.D.	PTFE/Polyprel®	RPM-812	
812SI	PVDF	PVDF	Ceramic	FV	PE ¼" O.D.	PTFE/Polyprel®	RPM-812	
813NI	PVDF	PVDF	Ceramic	-	PE ¼" O.D.	PTFE	RPM-813	
813SI	PVDF	PVDF	Ceramic	FV	PE ¼" O.D.	PTFE	RPM-813	
818NI	PVC	PVC	Ceramic	-	PE ¼" O.D.	PTFE/Polyprel®	RPM-812	
818SI	PVC	PVC	Ceramic	FV	PE ¼" O.D.	PTFE/Polyprel®	RPM-812	
AutoPrime™ De-gas								
A10AI	Acrylic	PVC	Ceramic	-	PE ¼" O.D.	PTFE/Polyprel®	RPM-A10A	
A10HI	Acrylic	PVC	Ceramic	FV	PE ¼" O.D.	PTFE/Polyprel®	RPM-A10A	
A18AI	PVC	PVC	Ceramic	-	PE ¼" O.D.	PTFE/Polyprel®	RPM-A10A	
A18HI	PVC	PVC	Ceramic	FV	PE ¼" O.D.	PTFE/Polyprel®	RPM-A10A	
AD21	1	- 910NI						

RPM Kit	Contents
FastPrime™	
RPM-812	
RPM-813	*O Rings
RPM-919	*Shaft Seal
RPM-917	*Liquifram
RPM-812	*Check Valve Cartridges
RPM-813	*Injection Valve Cartridge
AutoPrime™ De-gas	*FastPrime or AutoPrime Cartridge
RPM-A10A	



EXCEL AD METERING PUMP SELECTION

20

OUTPUT CODE 4

120 SPM Max.

Size Code 2

0.005 to 0.5 GPH (0.02 to 1.9 LPH); 250 psi (17.2 bar)

Autoprime™ 0.0033 to 0.33 GPH (0.012 to 1.2 LPH)

ADx4

Drive End

Control

AD24 Dual Manual Control (dual power supply)

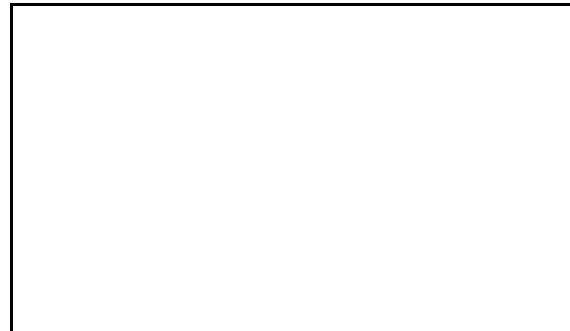
AD84 Pulse/Analog Input w/ Dual Manual Control (universal power supply)

AD94 Pulse/Analog Input w/ Dual Manual Control - Advanced Features (universal power supply)

Power Code	Voltage	Frequency	Plug
1	Dual or Universal	50-60 HZ	110 - 120V US Plug
2	Dual or Universal	50-60 HZ	220 - 240V US Plug
3	Dual or Universal	50-60 HZ	220 - 240V DIN Plug
5	Dual or Universal	50-60 HZ	220 - 240V UK Plug
6	Dual or Universal	50-60 HZ	220 - 240V Aust/NZ Plug

Liquid End	Head	Fittings	Balls	Valve	Connections Suction/Discharge	Seat / O-Ring	RPM Kit
FastPrime™ Machined							
920NI	Acrylic	PVC	Ceramic	-	PE ¼" O.D.	PTFE/Polyprel®	RPM-822
920SI	Acrylic	PVC	Ceramic	FV	PE ¼" O.D.	PTFE/Polyprel®	RPM-822
925NI	PP	PP	Ceramic	-	PE ¼" O.D.	PTFE	RPM-823
925SI	PP	PP	Ceramic	FV	PE ¼" O.D.	PTFE	RPM-823
928NI	PVC	PVC	Ceramic	-	PE ¼" O.D.	PTFE/Polyprel®	RPM-822
928SI	PVC	PVC	Ceramic	FV	PE ¼" O.D.	PTFE/Polyprel®	RPM-822
929NI	Acrylic	PVDF	PTFE	-	PE ¼" O.D.	Polyprel®	RPM-929
929SI	Acrylic	PVDF	PTFE	FV	PE ¼" O.D.	Polyprel®	RPM-929
927NP	316SS	316SS	316SS	-	¼" NPT	316SS/PTFE	RPM-927
FastPrime™ Molded							
822NI	PVDF	PVDF	Ceramic	-	PE ¼" O.D.	PTFE/Polyprel®	RPM-822
822SI	PVDF	PVDF	Ceramic	FV	PE ¼" O.D.	PTFE/Polyprel®	RPM-822
823NI	PVDF	PVDF	Ceramic	-	PE ¼" O.D.	PTFE	RPM-823
823SI	PVDF	PVDF	Ceramic	FV	PE ¼" O.D.	PTFE	RPM-823
828NI	PVC	PVC	Ceramic	-	PE ¼" O.D.	PTFE/Polyprel®	RPM-822
828SI	PVC	PVC	Ceramic	FV	PE ¼" O.D.	PTFE/Polyprel®	RPM-822
AutoPrime™ De-gas							
A20AI	Acrylic	PVC	Ceramic	-	PE ¼" O.D.	PTFE/Polyprel®	RPM-A20A
A20HI	Acrylic	PVC	Ceramic	FV	PE ¼" O.D.	PTFE/Polyprel®	RPM-A20A
A28AI	PVC	PVC	Ceramic	-	PE ¼" O.D.	PTFE/Polyprel®	RPM-A20A
A28HI	PVC	PVC	Ceramic	FV	PE ¼" O.D.	PTFE/Polyprel®	RPM-A20A
High Viscosity							
624VI	PP	PP	316SS	-	PE ½" OD / Vinyl 0.938" OD	PTFE	RPM-624
624PI	PP	PP	316SS	-	PE ½" OD / Vinyl 0.938" OD	PTFE	RPM-624
626VI	Acrylic	PP	316SS	-	PE ½" OD / Vinyl 0.938" OD	PTFE	RPM-626

RPM Kit	Contents
FastPrime™	
RPM-822	*O Rings
RPM-823	*Shaft Seal
RPM-929	*Liquifram
RPM-927	*Check Valve Cartridges
	*Injection Valve Cartridge
AutoPrime™ De-gas	
RPM-A20A	*FastPrime or AutoPrime Cartridge
High Viscosity	
RPM-624	*Clamp Rings *Liquifram
RPM-626	*Seal Ring Seats *Balls, Springs
	*Shaft Seal



EXCEL AD METERING PUMP SELECTION

21

OUTPUT CODE 5

120 SPM Max.

Size Code 3

0.01 to 1.0 GPH (0.04 to 3.8 LPH); 110 psi (7.6 bar)

Autoprime™ 0.008 to 0.8 GPH (0.03 to 3.0 LPH)

ADx5

Drive End								
Control								
AD25 Dual Manual Control (dual power supply)								
AD85 Pulse/Analog Input w/ Dual Manual Control (universal power supply)								
AD95 Pulse/Analog Input w/ Dual Manual Control - Advanced Features (universal power supply)								
Power Code	Voltage	Frequency	Plug					
1	Dual or Universal	50-60 HZ	110 - 120V US Plug					
2	Dual or Universal	50-60 HZ	220 - 240V US Plug					
3	Dual or Universal	50-60 HZ	220 - 240V DIN Plug					
5	Dual or Universal	50-60 HZ	220 - 240V UK Plug					
6	Dual or Universal	50-60 HZ	220 - 240V Aust/NZ Plug					
Liquid End	Head	Fittings	Balls	Valve	Connections Suction/Discharge	Seat / O-Ring	RPM Kit	
FastPrime™ Machined								
930NI	Acrylic	PVC	Ceramic	-	PE 3/8" O.D.	PTFE/Polyprel®	RPM-832	
930SI	Acrylic	PVC	Ceramic	FV	PE 3/8" O.D.	PTFE/Polyprel®	RPM-832	
935NI	PP	PP	Ceramic	-	PE 3/8" O.D.	PTFE	RPM-833	
935SI	PP	PP	Ceramic	FV	PE 3/8" O.D.	PTFE	RPM-833	
938NI	PVC	PVC	Ceramic	-	PE 3/8" O.D.	PTFE/Polyprel®	RPM-832	
938SI	PVC	PVC	Ceramic	FV	PE 3/8" O.D.	PTFE/Polyprel®	RPM-832	
939NI	Acrylic	PVDF	PTFE	-	PE 3/8" O.D.	Polyprel®	RPM-939	
939SI	Acrylic	PVDF	PTFE	FV	PE 3/8" O.D.	Polyprel®	RPM-939	
937NP	316SS	316SS	316SS	-	1/4" NPT	316SS/PTFE	RPM-937	
FastPrime™ Molded								
832NI	PVDF	PVDF	Ceramic	-	PE 3/8" O.D.	PTFE/Polyprel®	RPM-832	
832SI	PVDF	PVDF	Ceramic	FV	PE 3/8" O.D.	PTFE/Polyprel®	RPM-832	
833NI	PVDF	PVDF	Ceramic	-	PE 3/8" O.D.	PTFE	RPM-833	
833SI	PVDF	PVDF	Ceramic	FV	PE 3/8" O.D.	PTFE	RPM-833	
838NI	PVC	PVC	Ceramic	-	PE 3/8" O.D.	PTFE/Polyprel®	RPM-832	
838SI	PVC	PVC	Ceramic	FV	PE 3/8" O.D.	PTFE/Polyprel®	RPM-832	
AutoPrime™ De-gas								
A30AI	Acrylic	PVC	Ceramic	-	PE 3/8" O.D.	PTFE/Polyprel®	RPM-A30A	
A30HI	Acrylic	PVC	Ceramic	FV	PE 3/8" O.D.	PTFE/Polyprel®	RPM-A30A	
A38AI	PVC	PVC	Ceramic	-	PE 3/8" O.D.	PTFE/Polyprel®	RPM-A30A	
A38HI	PVC	PVC	Ceramic	FV	PE 3/8" O.D.	PTFE/Polyprel®	RPM-A30A	
High Viscosity								
634VI	PP	PP	316SS	-	PE 1/2" OD / Vinyl 0.938" OD	PTFE	RPM-634	
634PI	PP	PP	316SS	-	PE 1/2" OD / Vinyl 0.938" OD	PTFE	RPM-634	
636VI	Acrylic	PP	316SS	-	PE 1/2" OD / Vinyl 0.938" OD	PTFE	RPM-636	
AD21	1	- 930NI						

RPM Kit	Contents
FastPrime™	
RPM-832	*O Rings
RPM-833	*Shaft Seal
RPM-939	*Liquifram
RPM-937	*Check Valve Cartridges
	*Injection Valve Cartridge
AutoPrime™ De-gas	
RPM-A30A	*FastPrime or AutoPrime Cartridge
High Viscosity	
RPM-634	*Clamp Rings *Liquifram
RPM-636	*Seal Ring Seats *Balls, Springs
	*Shaft Seal



EXCEL AD METERING PUMP SELECTION

22

OUTPUT CODE 6

120 SPM Max.

Size Code 4

0.02 to 2.0 GPH (0.08 to 7.6 LPH); 50 psi (3.4 bar)

Autoprime™ 0.018 to 1.8 GPH (0.068 to 6.8 LPH)

ADx6

Drive End

Control

AD26 Dual Manual Control (dual power supply)

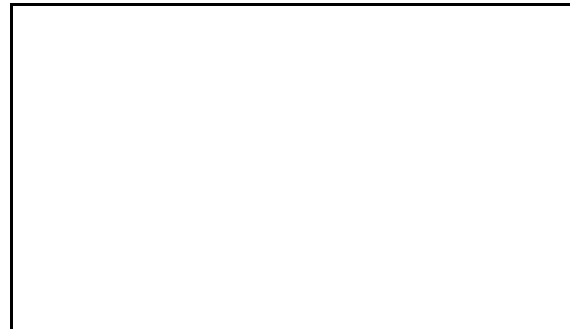
AD86 Pulse/Analog Input w/ Dual Manual Control (universal power supply)

AD96 Pulse/Analog Input w/ Dual Manual Control - Advanced Features (universal power supply)

Power Code	Voltage	Frequency	Plug
1	Dual or Universal	50-60 HZ	110 - 120V US Plug
2	Dual or Universal	50-60 HZ	220 - 240V US Plug
3	Dual or Universal	50-60 HZ	220 - 240V DIN Plug
5	Dual or Universal	50-60 HZ	220 - 240V UK Plug
6	Dual or Universal	50-60 HZ	220 - 240V Aust/NZ Plug

Liquid End	Head	Fittings	Balls	Valve	Connections Suction/Discharge	Seat / O-Ring	RPM Kit
FastPrime™ Machined							
940NI	Acrylic	PVC	Ceramic	-	PE 3/8" O.D.	PTFE/Polyprel®	RPM-842
940SI	Acrylic	PVC	Ceramic	FV	PE 3/8" O.D.	PTFE/Polyprel®	RPM-842
945NI	PP	PP	Ceramic	-	PE 3/8" O.D.	PTFE	RPM-843
945SI	PP	PP	Ceramic	FV	PE 3/8" O.D.	PTFE	RPM-843
948NI	PVC	PVC	Ceramic	-	PE 3/8" O.D.	PTFE/Polyprel®	RPM-842
948SI	PVC	PVC	Ceramic	FV	PE 3/8" O.D.	PTFE/Polyprel®	RPM-842
949NI	Acrylic	PVDF	PTFE	-	PE 3/8" O.D.	Polyprel®	RPM-939
949SI	Acrylic	PVDF	PTFE	FV	PE 3/8" O.D.	Polyprel®	RPM-939
947NP	316SS	316SS	316SS	-	1/4" NPT	316SS/PTFE	RPM-947
FastPrime™ Molded							
842NI	PVDF	PVDF	Ceramic	-	PE 3/8" O.D.	PTFE/Polyprel®	RPM-842
842SI	PVDF	PVDF	Ceramic	FV	PE 3/8" O.D.	PTFE/Polyprel®	RPM-842
843NI	PVDF	PVDF	Ceramic	-	PE 3/8" O.D.	PTFE	RPM-843
843SI	PVDF	PVDF	Ceramic	FV	PE 3/8" O.D.	PTFE	RPM-843
848NI	PVC	PVC	Ceramic	-	PE 3/8" O.D.	PTFE/Polyprel®	RPM-842
848SI	PVC	PVC	Ceramic	FV	PE 3/8" O.D.	PTFE/Polyprel®	RPM-842
AutoPrime™ De-gas							
A40AI	Acrylic	PVC	Ceramic	-	PE 3/8" O.D.	PTFE/Polyprel®	RPM-A40A
A40HI	Acrylic	PVC	Ceramic	FV	PE 3/8" O.D.	PTFE/Polyprel®	RPM-A40A
A48AI	PVC	PVC	Ceramic	-	PE 3/8" O.D.	PTFE/Polyprel®	RPM-A40A
A48HI	PVC	PVC	Ceramic	FV	PE 3/8" O.D.	PTFE/Polyprel®	RPM-A40A
High Viscosity							
644VI	PP	PP	316SS	-	PE 1/2" OD / Vinyl 0.938" OD	PTFE	RPM-644
644PI	PP	PP	316SS	-	PE 1/2" OD / Vinyl 0.938" OD	PTFE	RPM-644
646VI	Acrylic	PP	316SS	-	PE 1/2" OD / Vinyl 0.938" OD	PTFE	RPM-646

RPM Kit	Contents
FastPrime™	
RPM-842	*O Rings
RPM-843	*Shaft Seal
RPM-949	*Liquifram
RPM-947	*Check Valve Cartridges
	*Injection Valve Cartridge
AutoPrime™ De-gas	
RPM-A40A	*FastPrime or AutoPrime Cartridge
High Viscosity	
RPM-644	*Clamp Rings *Liquifram
RPM-646	*Seal Ring Seats *Balls, Springs
	*Shaft Seal



SERIES B METERING PUMPS



For support:



Control Codes

Key Features	B1	B7	B9
Stroke length manually adjustable	✓	✓	✓
Stroke frequency manually adjustable	✓	✓	✓
External control via pulse input		✓	✓
Manual/External mode selection		✓	✓
LCD and 4-key tactile keypad			✓
External control via 4-20mA			✓
Divide/Multiply incoming pulses			✓
Flow monitoring with alarm*			✓

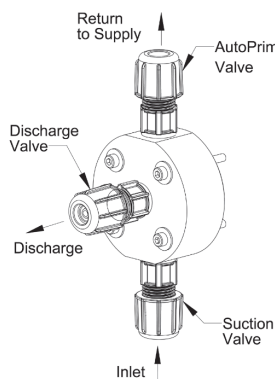
*Available with LMI Digi-Pulse™ Flow Monitor



MFV Multifunction Valve

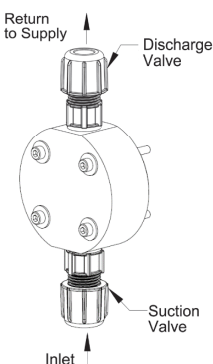
- This diaphragm type, anti-syphon/pressure relief valve is installed on the pump head.
- Can be oriented as required (360°) at precisely the desired position.
- Easier to use thanks to the more user-friendly design of the priming knobs and back pressure valve

Output Code	Max Output GPH	Max Output LPH	Max Pressure PSI	Max Pressure Bar
Series B with Liquipro™				
1	1.6	6.1	150	10.3
2	2.5	9.5	100	6.9
3	4.5	17.0	50	3.4
4	7.0	26.5	30	2.07
Series B with AutoPrime™				
1	1.4	5.3	150	10.3
2	2.3	8.7	100	6.9
3	4.0	15.1	50	3.4
4	6.8	25.7	30	2.07



AutoPrime™

Allows for the constant removal of vapors and gases present in applications like sodium hypochlorite and hydrogen peroxide.



Liquipro™

Standard Liquid End suitable for most applications

What's in the Box

Series B units include:						B9 units include:	
						B7x3, B7x5, B7x6 units include:	
Tube Connection Hardware	Quick Start Guide	Suction/Discharge Tubing	Injection Check Valve	Foot Valve	Ceramic Weight	4-pin Control Cable	8-pin Control Cable

Note: Depending on the configuration of the LE, some of the items may not be included in the box.

SERIES B PUMP SELECTION

24

OUTPUT CODE 1

100 SPM Max. Size Code 0.9

0.0 - 1.6 GPH (0.0 - 6.1 LPH); 150 psi (10.3 bar)

De-gas estimated at 0.00 to 1.4 GPH (0.00 to 5.3 LPH)

Bx1

Drive End

Control

B11 Dual Manual Control

B71 Pulse Input w/ Dual Manual Control

B91 Pulse/Analog Input w/ Dual Manual Control - Advanced Features

Power Code	Voltage	Frequency	Plug
1	110/120V	50-60 HZ	110 - 120V US Plug
2	220/240V	50-60 HZ	220 - 240V US Plug
3	220/240V	50-60 HZ	220 - 240V DIN Plug
5	220/240V	50-60 HZ	220 - 240V UK Plug
6	220/240V	50-60 HZ	220 - 240V Aust/NZ Plug

Liquid End	Head	Fittings	Balls	Valve	Connections Suction/Discharge	Cartridge Valve or Seal Ring	RPM Kit
Liquipro™ Molded							
392NI	PVDF	PVDF	Ceramic	-	PE 3/8" O.D.	PVDF / Polyprel®	RPM-392/398
392SI	PVDF	PVDF	Ceramic	FV	PE 3/8" O.D.	PVDF / Polyprel®	RPM-392/398
393NI	PVDF	PVDF	Ceramic	-	PE 3/8" O.D.	PVDF / PTFE	RPM-393
393SI	PVDF	PVDF	Ceramic	FV	PE 3/8" O.D.	PVDF / PTFE	RPM-393
398NI	PVC	PVC	Ceramic	-	PE 3/8" O.D.	PVDF / Polyprel®	RPM-392/398
398SI	PVC	PVC	Ceramic	FV	PE 3/8" O.D.	PVDF / Polyprel®	RPM-392/398
Liquipro™ Machined							
490NI	Acrylic	PVC	Ceramic	-	PE 3/8" O.D.	PVDF / Polyprel®	RPM-392/398
490SI	Acrylic	PVC	Ceramic	FV	PE 3/8" O.D.	PVDF / Polyprel®	RPM-392/398
495NI	PP	PP	Ceramic	-	PE 3/8" O.D.	PTFE	RPM-495
495SI	PP	PP	Ceramic	FV	PE 3/8" O.D.	PTFE	RPM-495
498NI	PVC	PVC	Ceramic	-	PE 3/8" O.D.	PVDF / Polyprel®	RPM-392/398
498SI	PVC	PVC	Ceramic	FV	PE 3/8" O.D.	PVDF / Polyprel®	RPM-392/398
499NI	Acrylic	PVDF	PTFE	-	PE 3/8" O.D.	PVDF / Polyprel®	RPM-490F
499SI	Acrylic	PVDF	PTFE	FV	PE 3/8" O.D.	PVDF / Polyprel®	RPM-490F
Legacy LMI							
85HV	PP	PP	316SS	-	PE 1/2" OD / Vinyl 0.938" OD	PTFE	SP-85HV
86HV	Acrylic	PP	316SS	-	PE 1/2" OD / Vinyl 0.938" OD	FKM	SP-86
297	316SS	316SS	316SS	-	Pipe 1/4" NPT M	316SS	-
Liquipro™ De-gas							
D90AI	Acrylic	PVC	Ceramic	-	PE 3/8" O.D.	Polyprel®	RPM-D98
D90HI	Acrylic	PVC	Ceramic	FV	PE 3/8" O.D.	Polyprel®	RPM-D98
D98AI	PVC	PVC	Ceramic	-	PE 3/8" O.D.	Polyprel®	RPM-D98
D98HI	PVC	PVC	Ceramic	FV	PE 3/8" O.D.	Polyprel®	RPM-D98

B11 1 - 392NI

RPM Kit	Contents
Liquipro™	
RPM-392/398	*O-Rings *Shaft Seal *Hardware kit *Liquifram
RPM-393	*Check Valve *Injection Valve
RPM-495	Cartridges Cartridge
RPM-490F	
LMI	
SP-85HV	*Shaft Seal *Seal Ring Seats *Liquifram
SP-86	*Balls & springs *Clamp rings
Liquipro™ De-gas	
RPM-D98	*O Rings *Shaft Seal *Check Valve Cartridges *Injection Valve Cartridge *Liquifram *AutoPrime Cartridge



SERIES B PUMP SELECTION

25

OUTPUT CODE 2

100 SPM Max. Size Code 0.9

0.0 - 2.5 GPH (0.0 - 9.5 LPH); 100 psi (6.9 bar)

De-gas estimated at 0.00 to 2.3 GPH (0.00 to 8.7 LPH)

Bx2								
Drive End								
Control								
B12 Dual Manual Control								
B72 Pulse Input w/ Dual Manual Control								
B92 Pulse/Analog Input w/ Dual Manual Control - Advanced Features								
Power Code	Voltage	Frequency	Plug					
1	110/120V	50-60 HZ	110 - 120V US Plug					
2	220/240V	50-60 HZ	220 - 240V US Plug					
3	220/240V	50-60 HZ	220 - 240V DIN Plug					
5	220/240V	50-60 HZ	220 - 240V UK Plug					
6	220/240V	50-60 HZ	220 - 240V Aust/NZ Plug					
Liquid End	Head	Fittings	Balls	Valve	Connections Suction/Discharge	Cartridge Valve or Seal Ring	RPM Kit	
Liquipro™ Molded								
392NI	PVDF	PVDF	Ceramic	-	PE 3/8" O.D.	PVDF / Polyprel®	RPM-392/398	
392SI	PVDF	PVDF	Ceramic	FV	PE 3/8" O.D.	PVDF / Polyprel®	RPM-392/398	
393NI	PVDF	PVDF	Ceramic	-	PE 3/8" O.D.	PVDF / PTFE	RPM-393	
393SI	PVDF	PVDF	Ceramic	FV	PE 3/8" O.D.	PVDF / PTFE	RPM-393	
398NI	PVC	PVC	Ceramic	-	PE 3/8" O.D.	PVDF / Polyprel®	RPM-392/398	
398SI	PVC	PVC	Ceramic	FV	PE 3/8" O.D.	PVDF / Polyprel®	RPM-392/398	
Liquipro™ Machined								
490NI	Acrylic	PVC	Ceramic	-	PE 3/8" O.D.	PVDF / Polyprel®	RPM-392/398	
490SI	Acrylic	PVC	Ceramic	FV	PE 3/8" O.D.	PVDF / Polyprel®	RPM-392/398	
495NI	PP	PP	Ceramic	-	PE 3/8" O.D.	PTFE	RPM-495	
495SI	PP	PP	Ceramic	FV	PE 3/8" O.D.	PTFE	RPM-495	
498NI	PVC	PVC	Ceramic	-	PE 3/8" O.D.	PVDF / Polyprel®	RPM-392/398	
498SI	PVC	PVC	Ceramic	FV	PE 3/8" O.D.	PVDF / Polyprel®	RPM-392/398	
499NI	Acrylic	PVDF	PTFE	-	PE 3/8" O.D.	PVDF / Polyprel®	RPM-490F	
499SI	Acrylic	PVDF	PTFE	FV	PE 3/8" O.D.	PVDF / Polyprel®	RPM-490F	
Legacy LMI								
85HV	PP	PP	316SS	-	PE 1/2" OD / Vinyl 0.938" OD	PTFE	SP-85HV	
86HV	Acrylic	PP	316SS	-	PE 1/2" OD / Vinyl 0.938" OD	FKM	SP-86	
297	316SS	316SS	316SS	-	Pipe 1/4 NPT M	316SS	-	
Liquipro™ De-gas								
D90AI	Acrylic	PVC	Ceramic	-	PE 3/8" O.D.	Polyprel®	RPM-D98	
D90HI	Acrylic	PVC	Ceramic	FV	PE 3/8" O.D.	Polyprel®	RPM-D98	
D98AI	PVC	PVC	Ceramic	-	PE 3/8" O.D.	Polyprel®	RPM-D98	
D98HI	PVC	PVC	Ceramic	FV	PE 3/8" O.D.	Polyprel®	RPM-D98	
B11	1	- 392NI						

RPM Kit	Contents	
Liquipro™		
RPM-392/398	*O-Rings	*Hardware kit
	*Shaft Seal	*Liquifram
RPM-393	*Check Valve	*Injection Valve
RPM-495	Cartridges	Cartridge
RPM-490F		
LMI		
SP-85HV	*Shaft Seal	*Liquifram
	*Seal Ring Seats	*Clamp rings
SP-86	*Balls & springs	
Liquipro™ De-gas		
RPM-D98	*O Rings	*Check Valve Cartridges
	*Shaft Seal	*Injection Valve Cartridge
	*Liquifram	*AutoPrime Cartridge



SERIES B PUMP SELECTION

26

OUTPUT CODE 3

100 SPM Max. Size Code 1.8

0.0 - 4.5 GPH (0.0 - 17 LPH); 50 psi (3.4 bar)

De-gas estimated at 0.00 to 4.0 GPH (0.00 to 15.1 LPH)

Bx3

Drive End

Control

B13 Dual Manual Control

B73 Pulse Input w/ Dual Manual Control

B93 Pulse/Analog Input w/ Dual Manual Control - Advanced Features

Power Code	Voltage	Frequency	Plug
1	110/120V	50-60 HZ	110 - 120V US Plug
2	220/240V	50-60 HZ	220 - 240V US Plug
3	220/240V	50-60 HZ	220 - 240V DIN Plug
5	220/240V	50-60 HZ	220 - 240V UK Plug
6	220/240V	50-60 HZ	220 - 240V Aust/NZ Plug

Liquid End	Head	Fittings	Balls	Valve	Connections Suction/Discharge	Cartridge Valve or Seal Ring	RPM Kit
Liquipro™ Molded							
362NI	PVDF	PVDF	Ceramic	-	PE 3/8" O.D.	PVDF / Polyprel®	RPM-362/368
362SI	PVDF	PVDF	Ceramic	FV	PE 3/8" O.D.	PVDF / Polyprel®	RPM-362/368
363NI	PVDF	PVDF	Ceramic	-	PE 3/8" O.D.	PVDF / PTFE	RPM-363
363SI	PVDF	PVDF	Ceramic	FV	PE 3/8" O.D.	PVDF / PTFE	RPM-363
368NI	PVC	PVC	Ceramic	-	PE 3/8" O.D.	PVDF / Polyprel®	RPM-362/368
368SI	PVC	PVC	Ceramic	FV	PE 3/8" O.D.	PVDF / Polyprel®	RPM-362/368
Liquipro™ Machined							
460NI	Acrylic	PVC	Ceramic	-	PE 3/8" O.D.	PVDF / Polyprel®	RPM-362/368
460SI	Acrylic	PVC	Ceramic	FV	PE 3/8" O.D.	PVDF / Polyprel®	RPM-362/368
465NI	PP	PP	Ceramic	-	PE 3/8" O.D.	PTFE	RPM-465
465SI	PP	PP	Ceramic	FV	PE 3/8" O.D.	PTFE	RPM-465
468NI	PVC	PVC	Ceramic	-	PE 3/8" O.D.	PVDF / Polyprel®	RPM-362/368
468SI	PVC	PVC	Ceramic	FV	PE 3/8" O.D.	PVDF / Polyprel®	RPM-362/368
469NI	Acrylic	PVDF	PTFE	-	PE 3/8" O.D.	PVDF / Polyprel®	RPM-460F
469SI	Acrylic	PVDF	PTFE	FV	PE 3/8" O.D.	PVDF / Polyprel®	RPM-460F
Legacy LMI							
75HV	PP	PP	316SS	-	PE 1/2" OD / Vinyl 0.938" OD	PTFE	SP-75HV
76HV	Acrylic	PP	316SS	-	PE 1/2" OD / Vinyl 0.938" OD	FKM	SP-76
277	316SS	316SS	316SS	-	Pipe 1/4 NPT M	316SS	-
Liquipro™ De-gas							
D60AI	Acrylic	PVC	Ceramic	-	PE 3/8" O.D.	Polyprel®	RPM-D68
D60HI	Acrylic	PVC	Ceramic	FV	PE 3/8" O.D.	Polyprel®	RPM-D68
D68AI	PVC	PVC	Ceramic	-	PE 3/8" O.D.	Polyprel®	RPM-D68
D68HI	PVC	PVC	Ceramic	FV	PE 3/8" O.D.	Polyprel®	RPM-D68

B13 1 - 362NI

RPM Kit	Contents
Liquipro™	
RPM-362/368	*O-Rings *Hardware kit
	*Shaft Seal *Liquifram
RPM-363	*Check Valve *Injection Valve
RPM-465	Cartridges Cartridge
RPM-460F	
LMI	
SP-75HV	*Shaft Seal *Liquifram
	*Seal Ring Seats *Clamp rings
SP-76	*Balls & springs
Liquipro™ De-gas	
RPM-D68	*O Rings *Check Valve Cartridges
	*Shaft Seal *Injection Valve Cartridge
	*Liquifram *AutoPrime Cartridge



SERIES B PUMP SELECTION

27

OUTPUT CODE 4

100 SPM Max. Size Code 3.0

0.0 - 7.0 GPH (0.0 - 26.5 LPH); 30 psi (2.07 bar)

De-gas estimated at 0.00 to 6.8 GPH (0.00 to 25.7 LPH)

Bx4									
Drive End									
Control									
B14 Dual Manual Control									
B74 Pulse Input w/ Dual Manual Control									
B94 Pulse/Analog Input w/ Dual Manual Control - Advanced Features									
	Power Code		Voltage		Frequency		Plug		
	1		110/120V		50-60 HZ		110 - 120V US Plug		
	2		220/240V		50-60 HZ		220 - 240V US Plug		
	3		220/240V		50-60 HZ		220 - 240V DIN Plug		
	5		220/240V		50-60 HZ		220 - 240V UK Plug		
	6		220/240V		50-60 HZ		220 - 240V Aust/NZ Plug		
		Liquid End	Head	Fittings	Balls	Valve	Connections Suction/Discharge	Cartridge Valve or Seal Ring	RPM Kit
	Liquipro™ Molded								
	312NI	PVDF	PVDF	Ceramic	-	PE ½" O.D.	PVDF / Polyprel®	RPM-312/318	
	312SI	PVDF	PVDF	Ceramic	FV	PE ½" O.D.	PVDF / Polyprel®	RPM-312/318	
	313NI	PVDF	PVDF	Ceramic	-	PE ½" O.D.	PVDF / PTFE	RPM-313	
	313SI	PVDF	PVDF	Ceramic	FV	PE ½" O.D.	PVDF / PTFE	RPM-313	
	318NI	PVC	PVC	Ceramic	-	PE ½" O.D.	PVDF / Polyprel®	RPM-312/318	
	318SI	PVC	PVC	Ceramic	FV	PE ½" O.D.	PVDF / Polyprel®	RPM-312/318	
	Liquipro™ Machined								
	410NI	Acrylic	PVC	Ceramic	-	PE ½" O.D.	PVDF / Polyprel®	RPM-312/318	
	410SI	Acrylic	PVC	Ceramic	FV	PE ½" O.D.	PVDF / Polyprel®	RPM-312/318	
	415NI	PP	PP	Ceramic	-	PE ½" O.D.	PTFE	RPM-415	
	415SI	PP	PP	Ceramic	FV	PE ½" O.D.	PTFE	RPM-415	
	418NI	PVC	PVC	Ceramic	-	PE ½" O.D.	PVDF / Polyprel®	RPM-312/318	
	418SI	PVC	PVC	Ceramic	FV	PE ½" O.D.	PVDF / Polyprel®	RPM-312/318	
	419NI	Acrylic	PVDF	PTFE	-	PE ½" O.D.	PVDF / Polyprel®	RPM-410F	
	419SI	Acrylic	PVDF	PTFE	FV	PE ½" O.D.	PVDF / Polyprel®	RPM-410F	
	Legacy LMI								
	217	316SS	316SS	316SS	-	Pipe ¼" NPT M	316SS	-	
	Liquipro™ De-gas								
	D10AI	Acrylic	PVC	Ceramic	-	PE ½" O.D.	Polyprel®	RPM-D98	
	D10HI	Acrylic	PVC	Ceramic	FV	PE ½" O.D.	Polyprel®	RPM-D98	
D18AI	PVC	PVC	Ceramic	-	PE ½" O.D.	Polyprel®	RPM-D98		
D18HI	PVC	PVC	Ceramic	FV	PE ½" O.D.	Polyprel®	RPM-D98		
B13	1	- 312NI							

RPM Kit	Contents
Liquipro™	*O-Rings *Shaft Seal
RPM-312/318	
RPM-313	*Check Valve Cartridges
RPM-415	*Hardware kit
RPM-410F	*Liquifram *Injection Valve Cartridge
Liquipro™ De-gas	*O Rings *Check Valve Cartridges
RPM-D18	*Shaft Seal *Injection Valve Cartridge *Liquifram *AutoPrime Cartridge

NOTE: Liquipro™ Liquid Ends use 3/8" diameter valve balls. Pump output may be reduced in some applications.

SERIES C METERING PUMPS



For support:



Control Codes

Key Features	C1	C7	C9
Stroke length manually adjustable	✓	✓	✓
Stroke frequency manually adjustable	✓	✓	✓
External control via pulse input		✓	✓
Manual/External mode selection		✓	✓
LCD and 4-key tactile keypad			✓
External control via 4-20mA			✓
Divide/Multiply incoming pulses			✓
Flow monitoring with alarm*			✓

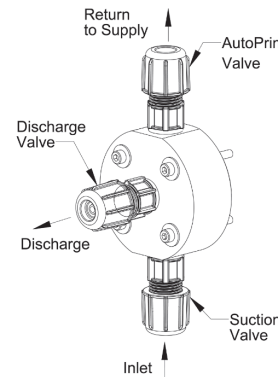
*Available with LMI Digi-Pulse™ Flow Monitor



MFV Multifunction Valve

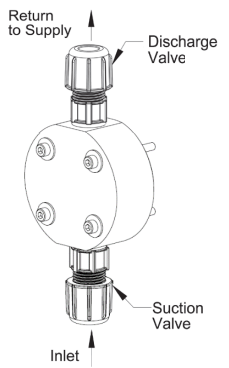
- This diaphragm type, anti-siphon/pressure relief valve is installed on the pump head.
- Can be oriented as required (360°) at precisely the desired position.
- Easier to use thanks to the more user-friendly design of the priming knobs and back pressure valve

Output Code	Max Output GPH	Max Output LPH	Max Pressure PSI	Max Pressure Bar
Series C with Liquipro™				
0	1.3	4.9	300	20.7
1	2.5	9.5	150	10.3
2	4.0	15.1	100	6.9
3	8.0	30.3	60	4.1
4	20.0	75.7	25	1.7
6	4.0	15.1	175	12.1
7	10.0	38.0	80	5.5
8	25.0	95.0	30	2.07
Series C with AutoPrime™				
1	2.3	8.7	150	10.3
2	3.8	14.4	100	6.9
3	7.8	29.5	60	4.1



AutoPrime™

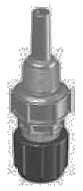
Allows for the constant removal of vapors and gases present in applications like sodium hypochlorite and hydrogen peroxide.



Liquipro™

Standard Liquid End suitable for most applications

What's in the Box

Series C units include:						C9 units include:	
 Tube Connection Hardware						 4-pin Control Cable	
 Quick Start Guide						 8-pin Control Cable	
 Suction/Discharge Tubing							
 Injection Check Valve							
 Foot Valve							
 Ceramic Weight							

Note: Depending on the configuration of the LE, some of the items may not be included in the box.

SERIES C PUMP SELECTION

29

OUTPUT CODE 0

100 SPM Max.

Size Code 0.9

0.0 - 1.3 GPH (0.0 - 4.9 LPH); 300 psi (20.7 bar)

Cx0									
Drive End									
Control									
C10 Dual Manual Control									
C70 Pulse Input w/ Dual Manual Control									
C90 Pulse/Analog Input w/ Dual Manual Control - Advanced Features									
	Power Code		Voltage		Frequency		Plug		
	1		110/120V		50-60 HZ		110 - 120V US Plug		
	2		220/240V		50-60 HZ		220 - 240V US Plug		
	3		220/240V		50-60 HZ		220 - 240V DIN Plug		
	5		220/240V		50-60 HZ		220 - 240V UK Plug		
	6		220/240V		50-60 HZ		220 - 240V Aust/NZ Plug		
			Liquid End	Valve	Head	Fittings	Balls	Seal Ring	Tubing & Connections
			RPM Kit						
			Liquipro™ Machine						
	498SP		FV	PVC	PVC	Ceramic	PVDF/Polyprel®	Pipe ½" NPT M	RPM-392/398
			Legacy LMI						
	297		-	316SS	316SS	316SS	316SS	Pipe ¼" NPT M	-
C10	1	-498SP							

RPM Kit		Contents
Liquipro™		*O-Rings
RPM-392/398		*Shaft Seal
		*Check Valve Cartridges
		*Hardware kit
		*Liquifram



SERIES C PUMP SELECTION

30

OUTPUT CODE 1

100 SPM Max.

Size Code 1.8

0.0 - 2.5 GPH (0.0 - 9.5 LPH); 150 psi (10.3 bar)

De-gas estimated at 0.00 to 2.3 GPH (0.00 to 8.7 LPH)

Cx1								
Drive End								
Control								
C11 Dual Manual Control								
C71 Pulse Input w/ Dual Manual Control								
C91 Pulse/Analog Input w/ Dual Manual Control - Advanced Features								
Power Code	Voltage	Frequency	Plug					
1	110/120V	50-60 HZ	110 - 120V US Plug					
2	220/240V	50-60 HZ	220 - 240V US Plug					
3	220/240V	50-60 HZ	220 - 240V DIN Plug					
5	220/240V	50-60 HZ	220 - 240V UK Plug					
6	220/240V	50-60 HZ	220 - 240V Aust/NZ Plug					
Liquid End	Head	Fittings	Balls	Valve	Connections Suction/Discharge	Cartridge Valve or Seal Ring	RPM Kit	
Liquipro™ Molded								
362NI	PVDF	PVDF	Ceramic	-	PE ¾" O.D.	PVDF / Polyprel®	RPM-362/368	
362SI	PVDF	PVDF	Ceramic	FV	PE ¾" O.D.	PVDF / Polyprel®	RPM-362/368	
363NI	PVDF	PVDF	Ceramic	-	PE ¾" O.D.	PVDF / PTFE	RPM-363	
363SI	PVDF	PVDF	Ceramic	FV	PE ¾" O.D.	PVDF / PTFE	RPM-363	
368NI	PVC	PVC	Ceramic	-	PE ¾" O.D.	PVDF/ Polyprel®	RPM-362/368	
368SI	PVC	PVC	Ceramic	FV	PE ¾" O.D.	PVDF/ Polyprel®	RPM-362/368	
Liquipro™ Machined								
460NI	Acrylic	PVC	Ceramic	-	PE ¾" O.D.	PVDF/ Polyprel®	RPM-362/368	
460SI	Acrylic	PVC	Ceramic	FV	PE ¾" O.D.	PVDF/ Polyprel®	RPM-362/368	
465NI	PP	PP	Ceramic	-	PE ¾" O.D.	PTFE	RPM-465	
465SI	PP	PP	Ceramic	FV	PE ¾" O.D.	PTFE	RPM-465	
468NI	PVC	PVC	Ceramic	-	PE ¾" O.D.	PVDF/ Polyprel®	RPM-362/368	
468SI	PVC	PVC	Ceramic	FV	PE ¾" O.D.	PVDF/ Polyprel®	RPM-362/368	
469NI	Acrylic	PVDF	PTFE	-	PE ¾" O.D.	PVDF/ Polyprel®	RPM-460F	
469SI	Acrylic	PVDF	PTFE	FV	PE ¾" O.D.	PVDF/ Polyprel®	RPM-460F	
Legacy LMI								
75HV	PP	PP	316SS	-	PE ½" OD / Vinyl 0.938" OD	PTFE	SP-75HV	
76HV	Acrylic	PP	316SS	-	PE ½" OD / Vinyl 0.938" OD	FKM	SP-76	
277	316SS	316SS	316SS	-	Pipe ¾" NPT M	316SS	-	
Liquipro™ De-gas								
D60AI	Acrylic	PVC	Ceramic	-	PE ¾" O.D.	Polyprel®	RPM-D68	
D60HI	Acrylic	PVC	Ceramic	FV	PE ¾" O.D.	Polyprel®	RPM-D68	
D68AI	PVC	PVC	Ceramic	-	PE ¾" O.D.	Polyprel®	RPM-D68	
D68HI	PVC	PVC	Ceramic	FV	PE ¾" O.D.	Polyprel®	RPM-D68	
C11	1	-362SI						

RPM Kit	Contents
Liquipro™	*O-Rings
RPM-362/368	*Shaft Seal
RPM-363	*Check Valve Cartridges
RPM-465	*Hardware kit
RPM-460F	*Liquifram
Legacy LMI	*Shaft Seal *Liquifram
SP-75HV	*Seal Ring Seats *Clamp rings
SP-76	*Balls & springs
Liquipro™ De-gas	*O Rings *Check Valve Cartridges
RPM-D68	*Shaft Seal *Injection Valve Cartridge
	*Liquifram *AutoPrime Cartridge



SERIES C PUMP SELECTION

31

OUTPUT CODE 2

100 SPM Max.

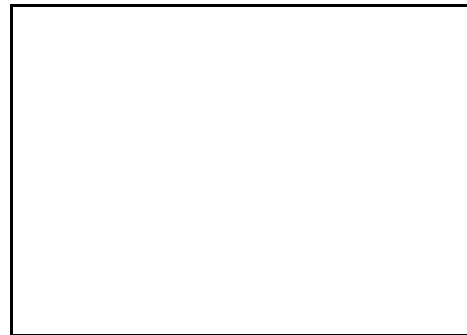
Size Code 1.8

0.0 - 4.0 GPH (0.0 - 15.1 LPH); 100 psi (6.9 bar)

De-gas estimated at 0.00 to 3.8 GPH (0.00 to 14.4 LPH)

Cx2								
Drive End								
Control								
C12 Dual Manual Control								
C72 Pulse Input w/ Dual Manual Control								
C92 Pulse/Analog Input w/ Dual Manual Control - Advanced Features								
Power Code	Voltage	Frequency	Plug					
1	110/120V	50-60 HZ	110 - 120V US Plug					
2	220/240V	50-60 HZ	220 - 240V US Plug					
3	220/240V	50-60 HZ	220 - 240V DIN Plug					
5	220/240V	50-60 HZ	220 - 240V UK Plug					
6	220/240V	50-60 HZ	220 - 240V Aust/NZ Plug					
Liquid End	Head	Fittings	Balls	Valve	Connections Suction/Discharge	Cartridge Valve or Seal Ring	RPM Kit	
Liquipro™ Molded								
362NI	PVDF	PVDF	Ceramic	-	PE ¾" O.D.	PVDF / Polyprel®	RPM-362/368	
362SI	PVDF	PVDF	Ceramic	FV	PE ¾" O.D.	PVDF / Polyprel®	RPM-362/368	
363NI	PVDF	PVDF	Ceramic	-	PE ¾" O.D.	PVDF / PTFE	RPM-363	
363SI	PVDF	PVDF	Ceramic	FV	PE ¾" O.D.	PVDF / PTFE	RPM-363	
368NI	PVC	PVC	Ceramic	-	PE ¾" O.D.	PVDF/ Polyprel®	RPM-362/368	
368SI	PVC	PVC	Ceramic	FV	PE ¾" O.D.	PVDF/ Polyprel®	RPM-362/368	
Liquipro™ Machined								
460NI	Acrylic	PVC	Ceramic	-	PE ¾" O.D.	PVDF/ Polyprel®	RPM-362/368	
460SI	Acrylic	PVC	Ceramic	FV	PE ¾" O.D.	PVDF/ Polyprel®	RPM-362/368	
465NI	PP	PP	Ceramic	-	PE ¾" O.D.	PTFE	RPM-465	
465SI	PP	PP	Ceramic	FV	PE ¾" O.D.	PTFE	RPM-465	
468NI	PVC	PVC	Ceramic	-	PE ¾" O.D.	PVDF/ Polyprel®	RPM-362/368	
468SI	PVC	PVC	Ceramic	FV	PE ¾" O.D.	PVDF/ Polyprel®	RPM-362/368	
469NI	Acrylic	PVDF	PTFE	-	PE ¾" O.D.	PVDF/ Polyprel®	RPM-460F	
469SI	Acrylic	PVDF	PTFE	FV	PE ¾" O.D.	PVDF/ Polyprel®	RPM-460F	
Legacy LMI								
75HV	PP	PP	316SS	-	PE ½" OD / Vinyl 0.938" OD	PTFE	SP-75HV	
76HV	Acrylic	PP	316SS	-	PE ½" OD / Vinyl 0.938" OD	FKM	SP-76	
277	316SS	316SS	316SS	-	Pipe 1/4" NPT M	316SS	-	
Liquipro™ De-gas								
D60AI	Acrylic	PVC	Ceramic	-	PE ¾" O.D.	Polyprel®	RPM-D68	
D60HI	Acrylic	PVC	Ceramic	FV	PE ¾" O.D.	Polyprel®	RPM-D68	
D68AI	PVC	PVC	Ceramic	-	PE ¾" O.D.	Polyprel®	RPM-D68	
D68HI	PVC	PVC	Ceramic	FV	PE ¾" O.D.	Polyprel®	RPM-D68	
C11	1	-362SI						

RPM Kit	Contents
Liquipro™	*O-Rings
RPM-362/368	*Shaft Seal
RPM-363	*Check Valve Cartridges
RPM-465	*Hardware kit
RPM-460F	*Liquifram
Legacy LMI	*Shaft Seal *Liquifram
SP-75HV	*Seal Ring Seats *Clamp rings
SP-76	*Balls & springs
Liquipro™ De-gas	*O Rings *Check Valve Cartridges
RPM-D68	*Shaft Seal *Injection Valve Cartridge
	*Liquifram *AutoPrime Cartridge



SERIES C PUMP SELECTION

32

OUTPUT CODE 3

100 SPM Max.

Size Code 3.0

0.0 - 8.0 GPH (0.0 - 30.3 LPH); 60 psi (4.1 bar)

De-gas estimated at 0.00 to 7.8 GPH (0.00 to 29.5 LPH)

Cx3									
Drive End									
Control									
C13 Dual Manual Control									
C73 Pulse Input w/ Dual Manual Control									
C93 Pulse/Analog Input w/ Dual Manual Control - Advanced Features									
	Power Code		Voltage		Frequency		Plug		
	1		110/120V		50-60 HZ		110 - 120V US Plug		
	2		220/240V		50-60 HZ		220 - 240V US Plug		
	3		220/240V		50-60 HZ		220 - 240V DIN Plug		
	5		220/240V		50-60 HZ		220 - 240V UK Plug		
	6		220/240V		50-60 HZ		220 - 240V Aust/NZ Plug		
		Liquid End	Head	Fittings	Balls	Valve	Connections Suction/Discharge	Cartridge Valve or Seal Ring	RPM Kit
	Liquipro™ Molded								
	312NI		PVDF	PVDF	Ceramic	-	PE ½" O.D.	PVDF / Polyprel®	RPM-312/318
	312SI		PVDF	PVDF	Ceramic	FV	PE ½" O.D.	PVDF / Polyprel®	RPM-312/318
	313NI		PVDF	PVDF	Ceramic	-	PE ½" O.D.	PVDF / PTFE	RPM-313
	313SI		PVDF	PVDF	Ceramic	FV	PE ½" O.D.	PVDF / PTFE	RPM-313
	318NI		PVC	PVC	Ceramic	-	PE ½" O.D.	PVDF/ Polyprel®	RPM-312/318
	318SI		PVC	PVC	Ceramic	FV	PE ½" O.D.	PVDF/ Polyprel®	RPM-312/318
	Liquipro™ Machined								
	410NI		Acrylic	PVC	Ceramic	-	PE ½" O.D.	PVDF/ Polyprel®	RPM-312/318
	410SI		Acrylic	PVC	Ceramic	FV	PE ½" O.D.	PVDF/ Polyprel®	RPM-312/318
	415NI		PP	PP	Ceramic	-	PE ½" O.D.	PTFE	RPM-415
	415SI		PP	PP	Ceramic	FV	PE ½" O.D.	PTFE	RPM-415
	418NI		PVC	PVC	Ceramic	-	PE ½" O.D.	PVDF/ Polyprel®	RPM-312/318
	418SI		PVC	PVC	Ceramic	FV	PE ½" O.D.	PVDF/ Polyprel®	RPM-312/318
	419NI		Acrylic	PVDF	PTFE	-	PE ½" O.D.	PVDF/ Polyprel®	RPM-410F
	419SI		Acrylic	PVDF	PTFE	FV	PE ½" O.D.	PVDF/ Polyprel®	RPM-410F
	Legacy LMI								
	20		Acrylic	PVC	Ceramic	-	PE ½" OD	FKM	SP-20
	20HV		Acrylic	PP	316SS	-	PE ½" OD/Vinyl 0.938" OD	FKM	SP-20HV
	20S		Acrylic	PVC	Ceramic	FV	PE ½" OD/Vinyl ½" OD	FKM	SP-20
	24		PVC	PVC	Ceramic	-	Pipe ½" NPT M	PTFE	SP-U5
	25HV		PP	316SS	316SS	-	PE ½" OD/Vinyl 0.938" OD	PTFE	SP-25HV
	26		PVC	PVC	Ceramic	-	PE ½" OD	FKM	SP-26
	26S		PVC	PVC	Ceramic	FV	PE ½" OD	FKM	SP-26
	27		316SS	316SS	316SS	-	Pipe ½" NPT M	PTFE	SP-27
	Liquipro™ De-gas								
	D10AI		Acrylic	PVC	Ceramic	-	PE ½" O.D.	Polyprel®	RPM-D18
	D10HI		Acrylic	PVC	Ceramic	FV	PE ½" O.D.	Polyprel®	RPM-D18
	D18AI		PVC	PVC	Ceramic	-	PE ½" O.D.	Polyprel®	RPM-D18
	D18HI		PVC	PVC	Ceramic	FV	PE ½" O.D.	Polyprel®	RPM-D18
	C13	1	- 312						

RPM Kit	Contents
Legacy LMI	
SP-20	*Shaft Seal
SP-20HV	*Liquifram
SP-U5	*Seal Ring Seats
SP-25HV	*Clamp rings
SP-26	*Balls & spring or springs
SP-27	

RPM Kit	Contents
Liquipro™	
RPM-312/318	*O-Rings *Hardware kit
RPM-313	*Shaft Seal *Liquifram
RPM-415	*Check Valve Cartridges
RPM-410F	
Liquipro™ De-gas	
RPM-D18	*Liquifram *O Rings *Shaft Seal *AutoPrime Cart *CV Cart. *Inj. Valve

SERIES C PUMP SELECTION

33

OUTPUT CODE 4

100 SPM Max.

Size Code 6.0

0.0 - 20 GPH (0.0 - 75.7 LPH); 25 psi (1.7 bar)

Cx4							
Drive End							
Control							
C14 Dual Manual Control							
C74 Pulse Input w/ Dual Manual Control							
C94 Pulse/Analog Input w/ Dual Manual Control - Advanced Features							
Power Code	Voltage	Frequency	Plug				
1	110/120V	50-60 HZ	110 - 120V US Plug				
2	220/240V	50-60 HZ	220 - 240V US Plug				
3	220/240V	50-60 HZ	220 - 240V DIN Plug				
5	220/240V	50-60 HZ	220 - 240V UK Plug				
6	220/240V	50-60 HZ	220 - 240V Aust/NZ Plug				
	Liquid End	Head	Fittings	Balls	Seal Ring	Tubing & Connections Suction / Discharge	RPM Kit
	Legacy LMI						
	30	Acrylic	PVC	Ceramic	PTFE	PE ½" O.D. / Vinyl ½" O.D.	SP-U6
	34	PVC	PVC	Ceramic	PTFE	Pipe ½" NPT M	SP-U6
	35P	PP	PP	Ceramic	PTFE	Pipe ½" NPT M	SP-U6
	35T	PP	PP	Ceramic	PTFE	PE ½" O.D.	SP-U6
	36	PVC	PVC	Ceramic	PTFE	PE ½" O.D.	SP-U6
	37	316SS	316SS	316SS	PTFE	Pipe ½" NPT M	SP-37
C14	1	- 30					

RPM Kit	Contents
Legacy LMI	
SP-U6	*Shaft Seal
	*Liquifram
SP-37	*Seal Ring Seats
	*Clamp rings
	*Balls & spring or springs

SERIES C PUMP SELECTION

34

OUTPUT CODE 6

100 SPM Max.

Size Code 1.8

0.0 - 4 GPH (0.0 - 15.1 LPH); 175 psi (12.1 bar)

C76										
Drive End										
Control										
C76 Pulse Input w/ Dual Manual Control										
	Power Code		Voltage		Frequency		Plug			
	1		110/120V		50-60 HZ		110 - 120V US Plug			
	2		220/240V		50-60 HZ		220 - 240V US Plug			
	3		220/240V		50-60 HZ		220 - 240V DIN Plug			
	5		220/240V		50-60 HZ		220 - 240V UK Plug			
	6		220/240V		50-60 HZ		220 - 240V Aust/NZ Plug			
		Liquid End	Head	Fittings	Balls	Cartridge or Seal Ring	Valve	Tubing & Connections Suction / Discharge	RPM Kit	
		Liquipro™ Machined								
		468SP	PVC	PVC	Ceramic	PVDF/Polyprel®	FV	½" NPT M	RPM-362/368	
Legacy LMI										
	277	316SS	316SS	316SS	PTFE	-	¼" NPT M	-		
C76	1	-468SP								

RPM Kit	Contents
Liquipro™	*O-Rings
RPM-362/368	*Shaft Seal
	*Check Valve Cartridges
	*Hardware kit
	*Liquifram

SERIES C PUMP SELECTION

35

OUTPUT CODE 7

100 SPM Max.

Size Code 3.0

0.0 - 10 GPH (0.0 - 38 LPH); 80 psi (5.5 bar)

C77

Drive End

Control

C77 Pulse Input w/ Dual Manual Control

Power Code	Voltage		Frequency		Plug			
	1	110/120V	50-60 HZ		110 - 120V US Plug			
	2	220/240V	50-60 HZ		220 - 240V US Plug			
	3	220/240V	50-60 HZ		220 - 240V DIN Plug			
	5	220/240V	50-60 HZ		220 - 240V UK Plug			
	6	220/240V	50-60 HZ		220 - 240V Aust/NZ Plug			
	Liquid End	Head	Fittings	Balls	Seal Ring	Valve	Tubing & Connections Suction / Discharge	RPM Kit
	Legacy LMI							
	20	Acrylic	PVC	Ceramic	FKM	-	PE ½" OD / Vinyl ½" OD	SP-20
	20HV	Acrylic	PP	316SS	FKM	-	PE ½" OD / Vinyl 0.938" OD	SP-20HV
	20S	Acrylic	PVC	Ceramic	FKM	FV	PE ½" OD / Vinyl ½" OD	SP-20
	24	PVC	PVC	Ceramic	PTFE	-	Pipe ½" NPT M	SP-U5
	25HV	PP	316SS	316SS	PTFE	-	PE ½" OD / Vinyl 0.938" OD	SP-25HV
25P	PP	PP	Ceramic	PTFE		Pipe ½" NPT M	SP-U5	
25T	PP	PP	Ceramic	PTFE		PE ½" OD	SP-U5	
26	PVC	PVC	Ceramic	FKM	-	PE ½" OD	SP-26	
26S	PVC	PVC	Ceramic	FKM	FV	PE ½" OD	SP-26	
27	316SS	316SS	316SS	PTFE	-	Pipe ½" NPT M	SP-27	
C77	1	-20						

RPM Kit

Contents

Legacy LMI	
SP-20	*Shaft Seal
SP-20HV	*Seal Ring Seats
SP-U5	*Liquifram
SP-25HV	*Clamp rings
SP-U5	*Balls & springs
SP-26	
SP-27	

SERIES C PUMP SELECTION

36

OUTPUT CODE 8

100 SPM Max.

Size Code 6.0

0.0 - 25 GPH (0.0 - 95 LPH); 30 psi (2.7 bar)

C78

Drive End

Control

C78 Pulse Input w/ Dual Manual Control

	Power Code			Voltage		Frequency		Plug			
	1			110V		50-60 HZ		110 - 120V US Plug			
	2			220/240V		50-60 HZ		220 - 240V US Plug			
	3			220/240V		50-60 HZ		220 - 240V DIN Plug			
	5			220/240V		50-60 HZ		220 - 240V UK Plug			
	6			220/240V		50-60 HZ		220 - 240V Aust/NZ Plug			
			Liquid End	Head	Fittings	Balls	Seal Ring	Tubing & Connections Suction / Discharge		RPM Kit	
			Legacy LMI								
			30	Acrylic	PVC	Ceramic	PTFE	PE 0½" O.D		SP-U6	
			34	PVC	PVC	Ceramic	PTFE	Pipe 0½" NPT M		SP-U6	
			35P	PP	PP	Ceramic	PTFE	Pipe 0½" NPT M		SP-U6	
			35T	PP	PP	Ceramic	PTFE	PE 0½" O.D		SP-U6	
			36	PVC	PVC	Ceramic	PTFE	PE 0½" O.D		SP-U6	
			37	316SS	316SS	316SS	PTFE	Pipe 0½" NPT M		SP-37	
C78	1	- 30									

RPM Kit	Contents
Legacy LMI	*Shaft Seal
SP-U6	*Liquifram
SP-37	*Seal Ring Seats
	*Clamp rings
	*Balls & springs

SERIES E METERING PUMPS

Explosion Proof Pumps



For support:



Control Code

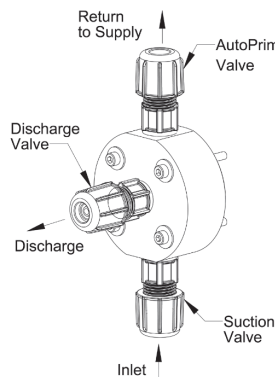
Key Features	E7
Stroke length manually adjustable	✓
Stroke frequency manually adjustable	✓
External control via pulse input	✓
Manual/External mode selection	✓



Multifunction Valve

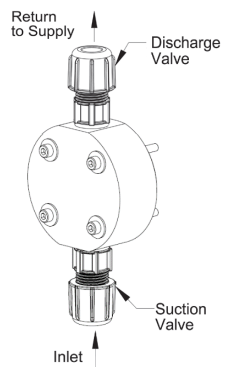
- This diaphragm type, anti-siphon/pressure relief valve is installed on the pump head.
- Can be oriented as required (360°) at precisely the desired position.
- Easier to use thanks to the more user-friendly design of the priming knobs and back pressure valve

Output Code	Max Output GPH	Max Output LPH	Max Pressure PSI	Max Pressure Bar
Series E with Liquipro™				
0	1.3	4.9	300	20.7
1	2.5	9.5	150	10.3
2	4.0	15.1	100	6.9
3	8.0	30.3	60	4.1
4	20.0	76.0	25	1.7
Series E with AutoPrime™				
1	2.3	8.7	150	10.3
2	3.8	14.4	100	6.9
3	7.8	29.5	60	4.1



AutoPrime™

Allows for the constant removal of vapors and gases present in applications like sodium hypochlorite and hydrogen peroxide.



Liquipro™

Standard Liquid End suitable for most applications

What's in the Box

Series E units include:



Tube Connection Hardware



Quick Start Guide



Suction/Discharge Tubing



Injection Check Valve



Foot Valve



Ceramic Weight

Note: Depending on the configuration of the LE, some of the items may not be included in the box.

SERIES E PUMP SELECTION

38

OUTPUT CODE 0

100 SPM Max.

Size Code 0.9

0.0 - 1.3 GPH (0.0 - 4.9 LPH); 300 psi (20.7 bar)

E70										
Drive End										
Control										
E70 Pulse Input with Dual Manual Control										
	Power Code		Voltage			Frequency				
	1		110/120V			50-60 HZ				
	2		220/240V			50-60 HZ				
		Liquid End	Head	Fittings	Balls	Valve	Connections Suction/Discharge	Cartridge Valve or Seal Ring	RPM Kit	
		Liquipro™ Machine								
		498SP	PVC	PVC	Ceramic	FV	Pipe ½" NPT M	PVDF/Polyprel®	RPM-392/398	
		Legacy LMI								
	297	316 SS	316 SS	316SS	-	Pipe ¼" NPT M	316SS	-		
E70	1	-498SP								

RPM Kit	Contents
Liquipro™	*O-Rings
RPM-392/398	*Shaft Seal
	*Check Valve Cartridges
	*Hardware kit
	*Liquifram
	*Injection Valve Cartridge

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SERIES E PUMP SELECTION

39

OUTPUT CODE 1

100 SPM Max. Size Code 1.8

0.0 - 2.5 GPH (0.0 - 9.5 LPH); 150 psi (10.3 bar)

De-gas estimated at 0.00 to 2.3 GPH (0.00 to 8.7 LPH)

E71									
Drive End									
Control									
E71 Pulse Input with Dual Manual Control									
	Power Code		Voltage		Frequency				
	1		110/120V		50-60 HZ				
	2		220/240V		50-60 HZ				
	Liquid End	Head	Fittings	Balls	Valve	Connections Suction/Discharge	Cartridge Valve or Seal Ring	RPM Kit	
	Liquipro™ Molded								
	362NI	PVDF	PVDF	Ceramic	-	PE ¾" OD	PVDF / Polyprel®	RPM-362/368	
	362SI	PVDF	PVDF	Ceramic	FV	PE ¾" OD	PVDF / Polyprel®	RPM-362/368	
	363NI	PVDF	PVDF	Ceramic	-	PE ¾" OD	PVDF / PTFE	RPM-363	
	363SI	PVDF	PVDF	Ceramic	FV	PE ¾" OD	PVDF / PTFE	RPM-363	
	368NI	PVC	PVC	Ceramic	-	PE ¾" OD	PVDF/ Polyprel®	RPM-362/368	
	368SI	PVC	PVC	Ceramic	FV	PE ¾" OD	PVDF/ Polyprel®	RPM-362/368	
	Liquipro™ Machined								
	460NI	Acrylic	PVC	Ceramic	-	PE ¾" OD	PVDF/ Polyprel®	RPM-362/368	
	460SI	Acrylic	PVC	Ceramic	FV	PE ¾" OD	PVDF/ Polyprel®	RPM-362/368	
	465NI	PP	PP	Ceramic	-	PE ¾" OD	PTFE	RPM-465	
	465SI	PP	PP	Ceramic	FV	PE ¾" OD	PTFE	RPM-465	
	468NI	PVC	PVC	Ceramic	-	PE ¾" OD	PVDF/ Polyprel®	RPM-362/368	
	468SI	PVC	PVC	Ceramic	FV	PE ¾" OD	PVDF/ Polyprel®	RPM-362/368	
	469NI	Acrylic	PVDF	PTFE	-	PE ¾" OD	PVDF/ Polyprel®	RPM-460F	
	469SI	Acrylic	PVDF	PTFE	FV	PE ¾" OD	PVDF/ Polyprel®	RPM-460F	
	Legacy LMI								
	75HV	PP	PP	316 SS	-	PE ½" OD / Vinyl ½" OD	PTFE	SP-75HV	
	76HV	Acrylic	PP	316 SS	-	PE ½" OD / Vinyl ½" OD	FKM	SP-76	
	277	316 SS	316 SS	316 SS	-	Pipe ¼" NPT M	316 SS	-	
	Liquipro™ De-gas								
	D60AI	Acrylic	PVC	Ceramic	-	PE ¾" OD	Polyprel®	RPM-D68	
	D60HI	Acrylic	PVC	Ceramic	FV	PE ¾" OD	Polyprel®	RPM-D68	
	D68AI	PVC	PVC	Ceramic	-	PE ¾" OD	Polyprel®	RPM-D68	
	D68HI	PVC	PVC	Ceramic	FV	PE ¾" OD	Polyprel®	RPM-D68	
	E71	1	-362NI						

RPM Kit	Contents	
Liquipro™		
RPM-362/368	*O-Rings	
RPM-363	*Shaft Seal	
RPM-465	*Check Valve Cartridges	
RPM-460F	*Hardware kit	
	*Liquifram	
	*Injection Valve Cartridge	
Legacy LMI		
SP-75HV	*Shaft Seal	*Liquifram
SP-76	*Seal Ring Seat	*Clamp rings
	*Balls & spring or springs	
Liquipro™ De-gas		
RPM-D68	*O Rings	*Check Valve Cartridges
	*Shaft Seal	*Injection Valve Cartridge
	*Liquifram	*AutoPrime Cartridge

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SERIES E PUMP SELECTION

40

OUTPUT CODE 2

100 SPM Max.

Size Code 1.8

0.0 - 4.0 GPH (0.0 - 15.1 LPH); 100 psi (6.9 bar)

De-gas estimated at 0.00 to 3.8 GPH (0.00 to 14.4 LPH)

E72									
Drive End									
Control									
E72 Pulse Input with Dual Manual Control									
	Power Code		Voltage		Frequency				
	1		110/120V		50-60 HZ				
	2		220/240V		50-60 HZ				
	Liquid End	Head	Fittings	Balls	Valve	Connections Suction/Discharge	Cartridge Valve or Seal Ring	RPM Kit	
	Liquipro™ Molded								
	362NI	PVDF	PVDF	Ceramic	-	PE ⅜" OD	PVDF / Polyprel®	RPM-362/368	
	362SI	PVDF	PVDF	Ceramic	FV	PE ⅜" OD	PVDF / Polyprel®	RPM-362/368	
	363NI	PVDF	PVDF	Ceramic	-	PE ⅜" OD	PVDF / PTFE	RPM-363	
	363SI	PVDF	PVDF	Ceramic	FV	PE ⅜" OD	PVDF / PTFE	RPM-363	
	368NI	PVC	PVC	Ceramic	-	PE ⅜" OD	PVDF/ Polyprel®	RPM-362/368	
	368SI	PVC	PVC	Ceramic	FV	PE ⅜" OD	PVDF/ Polyprel®	RPM-362/368	
	Liquipro™ Machined								
	460NI	Acrylic	PVC	Ceramic	-	PE ⅜" OD	PVDF/ Polyprel®	RPM-362/368	
	460SI	Acrylic	PVC	Ceramic	FV	PE ⅜" OD	PVDF/ Polyprel®	RPM-362/368	
	465NI	PP	PP	Ceramic	-	PE ⅜" OD	PTFE	RPM-465	
	465SI	PP	PP	Ceramic	FV	PE ⅜" OD	PTFE	RPM-465	
	468NI	PVC	PVC	Ceramic	-	PE ⅜" OD	PVDF/ Polyprel®	RPM-362/368	
	468SI	PVC	PVC	Ceramic	FV	PE ⅜" OD	PVDF/ Polyprel®	RPM-362/368	
	469NI	Acrylic	PVDF	PTFE	-	PE ⅜" OD	PVDF/ Polyprel®	RPM-460F	
	469SI	Acrylic	PVDF	PTFE	FV	PE ⅜" OD	PVDF/ Polyprel®	RPM-460F	
	Legacy LMI								
	75HV	PP	PP	316 SS	-	PE ½" OD / Vinyl ½" OD	PTFE	SP-75HV	
	76HV	Acrylic	PP	316 SS	-	PE ½" OD / Vinyl ½" OD	FKM	SP-76	
	277	316 SS	316 SS	316 SS	-	Pipe ¼" NPT M	316 SS	-	
	Liquipro™ De-gas								
	D60AI	Acrylic	PVC	Ceramic	-	PE ⅜" OD	Polyprel®	RPM-D68	
	D60HI	Acrylic	PVC	Ceramic	FV	PE ⅜" OD	Polyprel®	RPM-D68	
	D68AI	PVC	PVC	Ceramic	-	PE ⅜" OD	Polyprel®	RPM-D68	
	D68HI	PVC	PVC	Ceramic	FV	PE ⅜" OD	Polyprel®	RPM-D68	
	E72	1	-362NI						

RPM Kit	Contents	
Liquipro™		
RPM-362/368	*O-Rings	
RPM-363	*Shaft Seal	
RPM-465	*Check Valve Cartridges	
RPM-460F	*Hardware kit	
	*Liquifram	
	*Injection Valve Cartridge	
Legacy LMI		
SP-75HV	*Shaft Seal	*Liquifram
SP-76	*Seal Ring Seat	*Clamp rings
	*Balls & spring or springs	
Liquipro™ De-gas		
RPM-D68	*O Rings	*Check Valve Cartridges
	*Shaft Seal	*Injection Valve Cartridge
	*Liquifram	*AutoPrime Cartridge

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SERIES E PUMP SELECTION

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OUTPUT CODE 3

100 SPM Max.

Size Code 3.0

0.0 - 8.0 GPH (0.0 - 30.3 LPH); 60 psi (4.1 bar)

De-gas estimated at 0.00 to 7.8 GPH (0.00 to 29.5 LPH)

E73									
Drive End									
Control									
E73 Pulse Input with Dual Manual Control									
	Power Code		Voltage		Frequency				
	1		110/120V		50-60 HZ				
	2		220/240V		50-60 HZ				
	Liquid End	Head	Fittings	Balls	Valve	Connections Suction/Discharge	Cartridge Valve or Seal Ring	RPM Kit	
	Liquipro™ Molded		These liquid ends use 3/8 diameter valve balls. Pump output may be reduced in some applications.						
	312NI	PVDF	PVDF	Ceramic	-	PE ½" OD	PVDF / Polyprel®	RPM-312/318	
	312SI	PVDF	PVDF	Ceramic	FV	PE ½" OD	PVDF / Polyprel®	RPM-312/318	
	313NI	PVDF	PVDF	Ceramic	-	PE ½" OD	PVDF / PTFE	RPM-313	
	313SI	PVDF	PVDF	Ceramic	FV	PE ½" OD	PVDF / PTFE	RPM-313	
	318NI	PVC	PVC	Ceramic	-	PE ½" OD	PVDF/ Polyprel®	RPM-312/318	
	318SI	PVC	PVC	Ceramic	FV	PE ½" OD	PVDF/ Polyprel®	RPM-312/318	
	Liquipro™ Machined								
	410NI	Acrylic	PVC	Ceramic	-	PE ½" OD	PVDF/ Polyprel®	RPM-410F	
	410SI	Acrylic	PVC	Ceramic	FV	PE ½" OD	PVDF/ Polyprel®	RPM-410F	
	415NI	PP	PP	Ceramic	-	PE ½" OD	PTFE	RPM-415	
	415SI	PP	PP	Ceramic	FV	PE ½" OD	PTFE	RPM-415	
	418NI	PVC	PVC	Ceramic	-	PE ½" OD	PVDF/ Polyprel®	RPM-312/318	
	418SI	PVC	PVC	Ceramic	FV	PE ½" OD	PVDF/ Polyprel®	RPM-312/318	
	419NI	Acrylic	PVDF	PTFE	-	PE ½" OD	PVDF/ Polyprel®	RPM-410F	
	419SI	Acrylic	PVDF	PTFE	FV	PE ½" OD	PVDF/ Polyprel®	RPM-410F	
	Legacy LMI								
	20	Acrylic	PVC	Ceramic	-	PE ½" OD / Vinyl ½" OD	FKM	SP-20	
	20HV	Acrylic	PP	316 SS	-	PE ½" OD / Vinyl ½" OD	FKM	SP-20HV	
	20S	Acrylic	PVC	Ceramic	FV	PE ½" OD / Vinyl ½" OD	FKM	SP-20	
	24	PVC	PVC	Ceramic	-	PE ½" OD / Vinyl ½" OD	PTFE	SP-U5	
	25HV	PP	316SS	316 SS	-	PE ½" OD / Vinyl ½" OD	PTFE	SP-25HV	
	26	PVC	PVC	Ceramic	-	PE ½" OD / Vinyl ½" OD	FKM	SP-26	
	26S	PVC	PVC	Ceramic	FV	PE ½" OD / Vinyl ½" OD	FKM	SP-26	
	27	316 SS	316 SS	316 SS	-	Pipe ½" NPT M	PTFE	SP-27	
	Liquipro™ De-gas								
	D10AI	Acrylic	PVC	Ceramic	-	PE ½" OD	Polyprel®	RPM-D18	
	D10HI	Acrylic	PVC	Ceramic	FV	PE ½" OD	Polyprel®	RPM-D18	
	D18AI	PVC	PVC	Ceramic	-	PE ½" OD	Polyprel®	RPM-D18	
	D18HI	PVC	PVC	Ceramic	FV	PE ½" OD	Polyprel®	RPM-D18	
E73	1	-312NI							

RPM Kit	Contents
Liquipro™	
RPM-312/318	*O-Rings
RPM-313	*Shaft Seal
RPM-415	*Check Valve Cartridges
RPM-410F	*Hardware kit
	*Liquifram
	*Injection Valve Cartridge
Legacy LMI	
SP-20	
SP-20HV	*Shaft Seal
SP-20	*Liquifram
SP-U5	*Seal Ring Seat
SP-25HV	*Clamp rings
SP-26	*Balls & spring or springs
SP-27	

RPM Kit	Contents
Liquipro™ De-gas	
RPM-D18	*O Rings
	*Shaft Seal
	*Liquifram
	*Check Valve Cartridges
	*Injection Valve Cartridge
	*AutoPrime Cartridge

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SERIES E PUMP SELECTION

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OUTPUT CODE 4

100 SPM Max.

Size Code 6.0

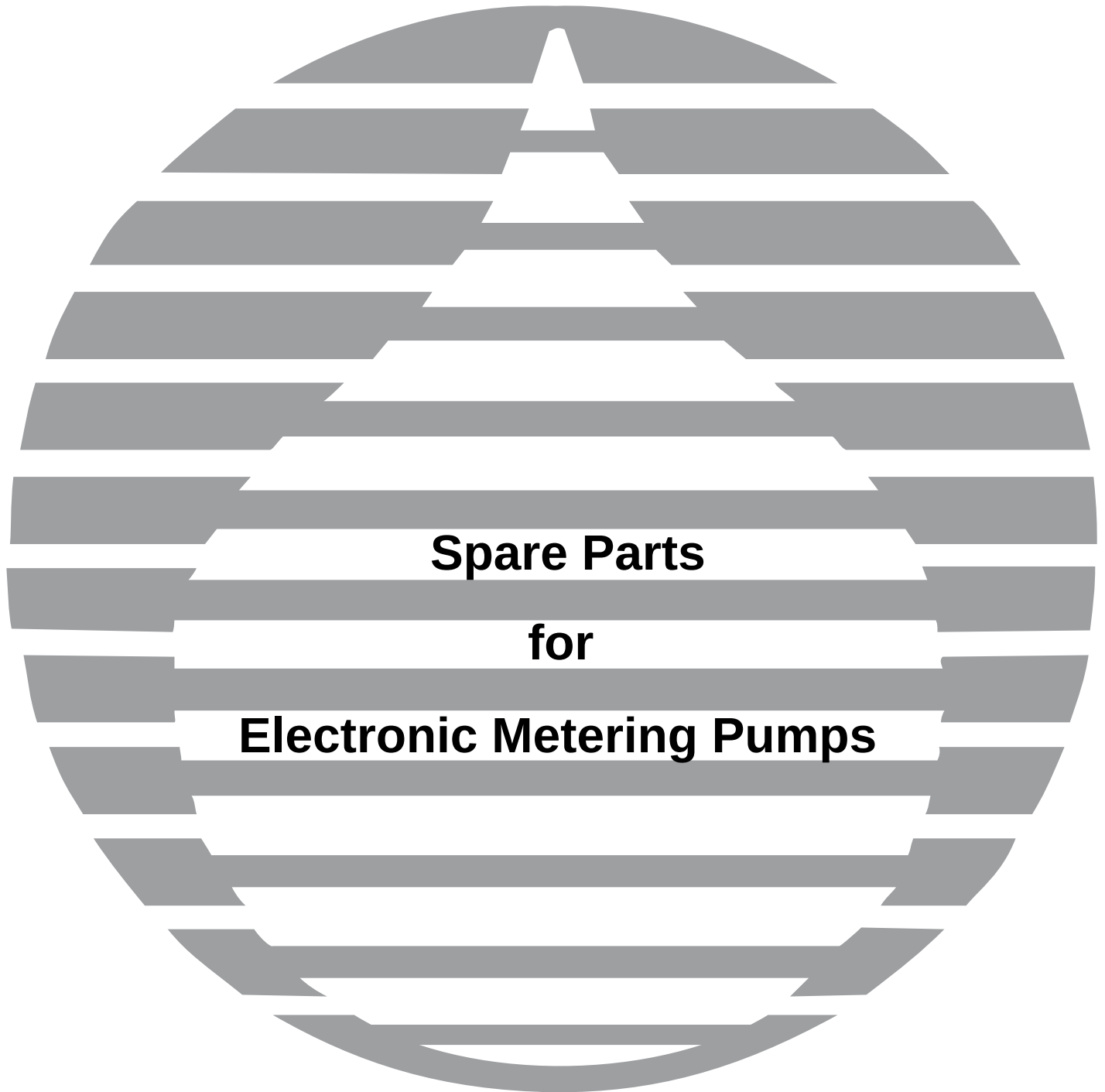
0.0 - 20 GPH (0.0 - 75.7 LPH); 25 psi (1.7 bar)

E74							
Drive End							
Control							
E74 Pulse Input with Dual Manual Control							
Power Code		Voltage		Frequency			
1		110/120V		50-60 HZ			
2		220/240V		50-60 HZ			
	Liquid End	Head	Fittings	Balls	Seal Ring	Tubing & Connections Suction / Discharge	RPM Kit
	Legacy LMI						
	30	Acrylic	PVC	Ceramic	PTFE	PE ½" OD / Vinyl ½" OD	SP-U6
	34	PVC	PVC	Ceramic	PTFE	Pipe ½" NPT M	SP-U6
	35P	PP	PP	Ceramic	PTFE	Pipe ½" NPT M	SP-U6
	35T	PP	PP	Ceramic	PTFE	PE .5" OD	SP-U6
	36	PVC	PVC	Ceramic	PTFE	PE .5" OD	SP-U6
	37	316 SS	316 SS	316 SS	PTFE	Pipe ½" NPT M	SP-37
E74	1	-30					

RPM Kit	Contents
Legacy LMI	
SP-U6	*Shaft Seal
SP-37	*Liquifram
	*Seal Ring Seat
	*Clamp rings
	*Balls & spring or springs

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Spare Parts

for

Electronic Metering Pumps

FASTPRIME® - RPM Kits

RPM Kit	For Liquid End Assembly
RPM-708	708xx
RPM-718	718xx
RPM-728	728xx
RPM-738	738xx
RPM-748	748xx
RPM-812	812xx,818xx,910Nx,910Sx,918Nx,918Sx
RPM-813	813xx, 915xx
RPM-822	822xx,828xx,920Nx,920Sx,928Nx,928Sx
RPM-823	823xx, 925xx
RPM-832	832xx,838xx,930Nx,930Sx,938Nx,938Sx
RPM-833	833xx, 935xx
RPM-842	842xx,848xx,940Nx,940Sx,948Nx,948Sx
RPM-843	843xx, 945xx
RPM-907	907NP
RPM-917	917NP
RPM-919	919xx
RPM-927	927NP
RPM-929	929xx
RPM-937	937NP
RPM-939	939xx
RPM-947	947NP
RPM-949	949xx

High Viscosity - RPM Kits

RPM Kit	For Liquid End Assembly
RPM-624	624xx
RPM-626	626xx
RPM-634	634xx
RPM-636	636xx
RPM-644	644xx
RPM-646	646xx

Legacy LMI - Spare Part Kits

RPM Kit	For Liquid End Assembly
SP-U1	81S, 81T, 82T, 85S, 85T, 91S, 91T, 92S, 92T, 94, 94S, 95S, 95T, 196, 196S
SP-U2	65, 65S, 71S, 71T, 72S, 72S, 72T, 74, 74S, 75S, 75T
SP-U3	81FS, 91FS
SP-U4	71FS
SP-U5	24, 25P, 25T
SP-U6	30, 30S, 32, 34, 35P, 35T, 36, 36S
SP-U7	190, 190S, 191, 191S, 192, 192S, 193, 193S, 198, 198S
SP-U8	150, 150S, 151, 151P, 151S, 152, 152S, 158
SP-U9	155, 155P, 155S
SP-U10	61, 62, 62S, 161, 162, 168, 168S, 171, 171S, 172, 172S
SP-U17	12, 12S, 112, 112S, 118, 118S
SP-15	15, 15S
SP-20	20, 20S
SP-20HV	20HV
SP-25HV	25HV, 20PB, 20PBA
SP-26	26, 26S
SP-27	27
SP-29	29
SP-30HV	30HV

LIQUIPRO™ - RPM Kits

RPM Kit	For Liquid End Assembly
RPM-312/318	312xx, 318xx, 410xx, 418xx
RPM-313	313xx
RPM-352/358	352xx, 358xx, 450xx, 458xx
RPM-353	353xx
RPM-362/368	362xx, 368xx, 460xx, 468xx
RPM-363	363xx
RPM-392/398	392xx, 398xx, 490xx, 498xx
RPM-393	393xx
RPM-410F	410xx, 419xx
RPM-415	415xx
RPM-450F	450xx, 459xx
RPM-455	455xx
RPM-460F	460xx, 469xx
RPM-465	465xx
RPM-490F	490xx, 499xx
RPM-495	495xx
RPM-D18	D10xx, D18xx
RPM-D58	D50xx, D58xx,
RPM-D68	D60xx, D68xx
RPM-D98	D90xx, D98xx

AUTOPRIME® De-gas - RPM Kits

RPM Kit	For Liquid End Assembly
RPM-910A	910Ax, 910Hx, 918Ax, 918Hx
RPM-920A	920Ax, 920Hx, 928Ax, 928Hx
RPM-930A	930Ax, 930Hx, 938Ax, 938Hx
RPM-A10A	A10Ax, A10Hx, A18Ax, A18Hx
RPM-A20A	A20Ax, A20Hx, A28Ax, A28Hx
RPM-A30A	A30Ax, A30Hx, A38Ax, A38Hx
RPM-A40A	A40Ax, A40Hx, A48Ax, A48Hx

Legacy LMI - Spare Parts Kits

RPM Kit	For Liquid End Assembly
SP-35HV	35HV
SP-37	37
SP-66PB	66PB
SP-75HV	75HV
SP-75V	75V
SP-76	76HV
SP-76PB	76PB
SP-77	77
SP-79	79
SP-85HV	85HV, 86PBA
SP-86	86HV
SP-86PB	86PB
SP-89	89
SP-92V	92V
SP-97	97
SP-151FS	151FS
SP-155HV	155HV, 156PB, 156PBA
SP-156	156HV
SP-157	157
SP-987	987

PUMP DRIVE ASSEMBLIES

Drive	Size Code	Max Output		Max Pressure	
		GPH	LPH	PSI	Bar
Series PD					
PD01x	0	0.10 to 0.25	0.38 to 0.95	450	30.6
PD71x	0	0.10 to 0.25	0.38 to 0.95	450	30.6
PD04x	2	0.35 to 0.68	1.32 to 2.60	250	17.3
PD74x	2	0.35 to 0.68	1.32 to 2.60	250	17.3
PD05x	3	0.80 to 1.10	3.00 to 4.20	150	10.3
PD75x	3	0.80 to 1.10	3.00 to 4.20	150	10.3
PD06x	4	1.70 to 1.85	6.40 to 7.60	70	4.8
PD76x	4	1.70 to 1.85	6.40 to 7.60	70	4.8
EXCEL AD					
AD21x	1	0.002 to 0.21	0.01 to 0.8	250	17.2
AD24x	2	0.005 to 0.50	0.02 to 1.9	250	17.2
AD25x	3	0.010 to 1.00	0.04 to 3.8	110	7.6
AD26x	4	0.020 to 2.00	0.08 to 7.6	50	3.4
AD81x	1	0.002 to 0.21	0.01 to 0.8	250	17.2
AD84x	2	0.005 to 0.50	0.02 to 1.9	250	17.2
AD85x	3	0.010 to 1.00	0.04 to 3.8	110	7.6
AD86x	4	0.020 to 2.00	0.08 to 7.6	50	3.4
AD91x	1	0.002 to 0.21	0.01 to 0.8	250	17.2
AD94x	2	0.005 to 0.50	0.02 to 1.9	250	17.2
AD95x	3	0.010 to 1.00	0.04 to 3.8	110	7.6
AD96x	4	0.020 to 2.00	0.08 to 7.6	50	3.4
SERIES B					
B11x	0.9	0.01 to 1.60	0.05 to 6.10	150	10.3
B12x	0.9	0.01 to 2.50	0.05 to 9.50	100	6.9
B13x	1.8	0.02 to 4.50	0.09 to 17.0	50	3.4
B14x	3.0	0.04 to 7.00	0.13 to 26.5	30	2.07
B71x	0.9	0.00 to 1.60	0.00 to 6.10	150	10.3
B72x	0.9	0.00 to 2.50	0.00 to 9.50	100	6.9
B73x	1.8	0.00 to 4.50	0.00 to 17.0	50	3.4
B74x	3.0	0.00 to 7.00	0.00 to 26.5	30	2.07
B91x	0.9	0.00 to 1.60	0.00 to 6.10	150	10.3
B92x	0.9	0.00 to 2.50	0.00 to 9.50	100	6.9
B93x	1.8	0.00 to 4.50	0.00 to 17.0	50	3.4
B94x	3.0	0.00 to 7.00	0.00 to 26.5	30	2.07

Drive	Size Code	Max Output		Max Pressure	
		GPH	LPH	PSI	Bar
SERIES C					
C10x	0.9	0.01 to 1.30	0.03 to 4.90	300	20.7
C11x	1.8	0.01 to 2.50	0.05 to 9.50	150	10.3
C12x	1.8	0.02 to 4.00	0.08 to 15.1	100	6.9
C13x	3.0	0.05 to 8.00	0.17 to 30.3	60	4.1
C14x	6.0	0.1 to 20.00	0.38 to 76.0	25	1.8
C70x	0.9	0.00 to 1.30	0.00 to 4.90	300	20.7
C71x	1.8	0.00 to 2.50	0.00 to 9.50	150	10.3
C72x	1.8	0.00 to 4.00	0.00 to 15.1	100	6.9
C73x	3.0	0.00 to 8.00	0.00 to 30.3	60	4.1
C74x	6.0	0.00 to 20.0	0.00 to 76.0	25	1.8
C76x	1.8	0.00 to 4.00	0.00 to 15.1	175	12.1
C77x	3.0	0.00 to 10.0	0.00 to 38.0	80	5.5
C78x	6.0	0.00 to 25.0	0.00 to 95.0	30	2.07
C90x	0.9	0.00 to 1.30	0.00 to 4.90	300	20.7
C91x	1.8	0.00 to 2.50	0.00 to 9.50	150	10.3
C92x	1.8	0.00 to 4.00	0.00 to 15.1	100	6.9
C93x	3.0	0.00 to 8.00	0.00 to 30.3	60	4.1
C94x	6.0	0.00 to 20.0	0.00 to 76.0	25	1.8
SERIES E					
E70x	0.9	0.00 to 1.30	0.00 to 4.90	300	20.7
E71x	1.8	0.00 to 2.50	0.00 to 9.50	150	10.3
E72x	1.8	0.00 to 4.00	0.00 to 15.1	100	6.9
E73x	3.0	0.00 to 8.00	0.00 to 30.3	60	4.1
E74x	6.0	0.00 to 20.0	0.00 to 76.0	25	1.7

To complete the Drive, change the "x" to one of the following:

- 1- 120 V AC USA Plug
- 2- 240 V AC USA Plug (not for export)
- 3- 220-240V AC, DIN plug
- 5- 240-250V AC, UK Plug
- 6- 240-250V AC, Aust/NZ Plug

LIQUID END ASSEMBLIES (LE's)

FASTPRIME™ Molded

Liquid End	Size Code
LE-812NI	1
LE-812SI	1
LE-813NI	1
LE-813SI	1
LE-818NI	1
LE-818SI	1
LE-822NI	2*
LE-822SI	2*
LE-823NI	2*
LE-823SI	2*
LE-828NI	2*
LE-828SI	2*
LE-832NI	3
LE-832SI	3
LE-833NI	3
LE-833SI	3
LE-838NI	3
LE-838SI	3
LE-842NI	4
LE-842SI	4
LE-843NI	4
LE-843SI	4
LE-848NI	4
LE-848SI	4

FASTPRIME™ Machined

Liquid End	Size Code
LE-907NP	0
LE-910NI	1
LE-910SI	1
LE-915NI	1
LE-915SI	1
LE-917NP	1
LE-918NI	1
LE-918SI	1
LE-919NI	1
LE-919SI	1
LE-920NI	2*
LE-920SI	2*
LE-925NI	2*
LE-925SI	2*
LE-927NP	2*
LE-928NI	2*
LE-928SI	2*
LE-929NI	2*
LE-929SI	2*
LE-930NI	3
LE-930SI	3
LE-935NI	3
LE-935SI	3
LE-937NP	3
LE-938NI	3
LE-938SI	3
LE-939NI	3
LE-939SI	3
LE-940NI	4
LE-940SI	4
LE-945NI	4
LE-945SI	4
LE-947NP	4
LE-948NI	4
LE-948SI	4
LE-949NI	4
LE-949SI	4

AUTOPRIME™ De-gas

For off-gassing fluids

Liquid End	Size Code
LE-A10AI	1
LE-A10HI	1
LE-A18AI	1
LE-A18HI	1
LE-A20AI	2
LE-A20HI	2
LE-A28AI	2
LE-A28HI	2
LE-A30AI	3
LE-A30HI	3
LE-A38AI	3
LE-A38HI	3
LE-A40AI	4
LE-A40HI	4
LE-A48AI	4
LE-A48HI	4

AUTOPRIME™ (for Roytronic A)

Liquid End	Size Code
LE-910AI	1
LE-910HI	1
LE-918AI	1
LE-918HI	1
LE-920AI	2
LE-920HI	2
LE-928AI	2
LE-928HI	2
LE-930AI	3
LE-930HI	3
LE-938AI	3
LE-938HI	3

*** NOTE for Size Code 2:**
When ordering SC 2 LE, please append:
-150 for 150 psi version (Roytronic A)
-250 for 250 psi for (PD & Excel AD)
e.g. LE-928NI-250

If not specified, LMI will default to -250

High Viscosity

Liquid End	Size Code
LE-624VI	2
LE-624VP	2
LE-624PI	2
LE-624PP	2
LE-626VI	2
LE-634VI	3
LE-634VP	3
LE-634PI	3
LE-634PP	3
LE-636VI	3
LE-644VI	4
LE-644VP	4
LE-644PI	4
LE-644PP	4
LE-646VI	4
LE-646VP	4

LIQUIPRO™ Molded

Liquid End	Size Code
LE-312NI	3.0
LE-312SI	3.0
LE-313NI	3.0
LE-313SI	3.0
LE-318NI	3.0
LE-318SI	3.0
LE-352NI	0.5
LE-352SI	0.5
LE-353NI	0.5
LE-353SI	0.5
LE-358NI	0.5
LE-358SI	0.5
LE-362NI	1.8
LE-362SI	1.8
LE-363NI	1.8
LE-363SI	1.8
LE-368NI	1.8
LE-368SI	1.8
LE-392NI	0.9
LE-392SI	0.9
LE-393NI	0.9
LE-393SI	0.9
LE-398NI	0.9
LE-398SI	0.9

LIQUIPRO™ Machined

Liquid End	Size Code
LE-410NI	3.0
LE-410SI	3.0
LE-418NI	3.0
LE-418SI	3.0
LE-419SI	3.0
LE-450NI	0.5
LE-450SI	0.5
LE-455NI	0.5
LE-455SI	0.5
LE-458NI	0.5
LE-458SI	0.5
LE-459SI	0.5
LE-460NI	1.8
LE-460SI	1.8
LE-465NI	1.8
LE-465SI	1.8
LE-468NI	1.8
LE-468SI	1.8
LE-469SI	1.8
LE-490NI	0.9
LE-490SI	0.9
LE-495NI	0.9
LE-495SI	0.9
LE-498NI	0.9
LE-498SI	0.9
LE-499SI	0.9

LIQUIPRO De-gas

For off-gassing fluids

Liquid End	Size Code
LE-D10AI	3.0
LE-D10HI	3.0
LE-D18AI	3.0
LE-D18HI	3.0
LE-D50AI	0.5
LE-D50HI	0.5
LE-D58AI	0.5
LE-D58HI	0.5
LE-D60AI	1.8
LE-D60HI	1.8
LE-D68AI	1.8
LE-D68HI	1.8
LE-D90AI	0.9
LE-D90HI	0.9
LE-D98AI	0.9
LE-D98HI	0.9

Legacy LMI Liquid Ends

Liquid End	Size Code
LE-20HV	3.0
LE-20S	3.0
LE-24	3.0
LE-25HV	3.0
LE-25P	3.0
LE-25T	3.0
LE-26	3.0
LE-26S	3.0
LE-27	3.0
LE-30	6.0
LE-30HV	6.0
LE-30S	6.0
LE-34	6.0
LE-35HV	6.0
LE-35P	6.0
LE-35T	6.0
LE-36	6.0
LE-36S	6.0
LE-37	6.0
LE-75HV	1.8
LE-76HV	1.8
LE-85HV	0.9
LE-86HV	0.9
LE-155HV	0.5
LE-156HV	0.5
LE-217	3.0
LE-257	0.5
LE-277	1.8
LE-297	0.9

NOTE: EXCEL™ XR and Series G liquid ends are detailed in their respective sections

Agitators	
Part No.	Description
34504	Agitator, 27" SS Shaft & Impeller, 230V
27591	Agitator, 27" SS Shaft & Impeller, 115V
10590	Agitator, 34" SS Shaft & Impeller, 115V
25290	Agitator, 34" SS Shaft & Impeller, 230V
25292	Agitator, 34" SS Shaft, Neoprene® Impeller, 230V
26579	Flange, Agitator Mounting
26576	Motor, Agitator 115V
26577	Shaft ASM, Agitator 35"

Corp Stop and Nozzle Assembly	
Part No.	Description
49290	1" Mueller Bronze Corp Stop Assembly with PP Nozzle Assembly (replaces P/N 27741)
49288	1" NPT Bronze Corp Stop with PP Nozzle Assembly (replaces P/N 10741)
49287	3/4" NPT Bronze Corp Stop Assembly with CPVC Nozzle Assembly (replaces P/N 10998)
10786-1	COUPLING, 1/2" NPT
30897	Cable ASM, CORP STOP 1" STD
30896	Cable ASM, CORP STOP 3/4
25335	NOZZLE ASM, CORP STOP

Fluoride Saturator	
Part No.	Description
28850	Upflow Fluoride Saturator with 50 Gallon Tank
27161	Cover ASM, Saturator
10968	Distributor ASM, Saturator
28291	Switch ASM, LEVEL-Saturator
10847-1	Strainer, Fluoride Saturator
10828	Valve, Solenoid

Liquid Level and Low Level Switches	
Part No.	Description
29190	Liquid Level Shutoff Switch for Series B7, C7
27417	LL Switch Asm w/Outlets for P&A - 35 Gal Tank, 115V
26731	LL Switch Asm w/Outlets for P&A - 50 Gal Tank, 115V
26732	LL Switch Asm w/Outlets for P&A - 50 Gal Tank, 230V, US Plug
33510	LL Switch Asm w/Outlets for P&A - 50 Gal Tank, 230V, US Plug
49246	Low Level Shutoff Switch for Excel AD2
49249	Switch, Dual Liquid Level - Excel AD8 & AD9

Tank Assemblies and Accessories	
Part No.	Description
27421	*Tank Assembly, 10 Gallon
27400	*Tank Assembly, 35 Gallon (Flooded Suction)
26900	TANK ASM, Saturator
26350	*Tank Assembly, 50 Gallon
26637	Cover Tank, 50 Gallon
26350-1	*Tank with Cover, Drilled for Agitator
27300	Valve, 1/4 Angle PVC

*Note: Tanks are yellow UV Resistant PE

MFV Spare Part and Retrofit Kits	
Part No.	Description
57708	MFV Spare Kit, 150 PSI, 1/2" NPT, Polyprel®
57709	MFV Spare Kit, 150 PSI, 1/2" NPT, PTFE
57710	MFV Spare Kit, 250 PSI, 1/2" NPT, Polyprel®
57711	MFV Spare Kit, 250 PSI, 1/2" NPT, PTFE
57706	MFV Retrofit Kit, 150 PSI
57707	MFV Retrofit Kit, 250 PSI
58062	MFV Pro Spare Kit, 150 PSI, 1/2" NPT, Polyprel®
58064	MFV Pro Spare Kit, 250 PSI, 1/2" NPT, Polyprel®
58060	MFV Pro Retrofit Kit, 150 PSI
58061	MFV Pro Retrofit Kit, 250 PSI

Calibration Cylinders	
Part No.	Description
35643	Calibration Cylinder, 200 ml, Sealed Top
35644	Calibration Cylinder, 1000 ml, Sealed Top
35645	Calibration Cylinder, 200 ml, EZ Clean
35710	Calibration Cylinder, 1000 ml, EZ Clean
35861	Calibration Cylinder, 4000 ml, EZ Clean

Digi-Pulse Flow Monitors	
Part No.	Description
FM-250	Digi-Pulse Flow Monitor for Legacy Liquid Ends with 3/8" Check Balls. Replaces FM-200, FM-201, FM-202, FM-203, FM-204
FM-259	Same as FM-250 w/ 3.5mm connector. Replaces FM-200-9
FM-350	For Legacy Liquid Ends with 1/2" Check Balls. Replaces FM-301 & FM-302
FM-359	Same as FM-350 w/ 3.5mm connector. Replaces FM-301-9 & FM302-9
FM-450	For 300 and 400 series LIQUIPRO liquid ends. Replaces FM-PRO
FM-459	Same as FM-450 w/ 3.5 mm connector. Replaces FM-PRO-9
FM-850	For 800 and 900 series Fastprime liquid ends. Replaces FM-ROY
FM-859	Same as FM-850 w/ 3.5mm connect. Replaces FM-
FM-879	Same as FM-850 w/ 4 pin connector. Replaces FM-ROY
33256	Magnet, Digipulse
55796	Reed Switch TRANSMITTER W/ 3.5MM CONNEC.
55789	Reed Switch TRANSMITTER W/ 4 PIN CONNECT.
55787	Reed Switch TRANSMITTER W/ FLYING LEADS

Micropace™ Control Modules	
Part No.	Description
MP-100	Analog to Digital converter
MP-400D	4 Digit Divider
MP-500M	4 Digit Multiplier

Remote Programmable Divider	
Part No.	Description
31271	DIVIDER ASM, PD-4

Remote Programmable Flowmeter - Pulsers	
Part No.	Description
RFP-075	0.22 to 22 GPM (0.83 to 83 l/m), 3/4" NPT
59235	Flowmeter, RFP-075
RFP-100	0.44 to 52 GPM (1.7 to 196 l/m), 1" NPT
59236	Flowmeter, RFP-100
RFP-150	0.88 to 88 GPM (3.3 to 333 l/m), 1.5" NPT
59237	Flowmeter, RFP-150
RFP-200	1.75 to 130 GPM (7.5 to 499 l/m), 2" NPT
59238	Flowmeter, RFP-200
34566	FLOW CONTROLLER
59239	SENSOR ASM, RFP-075,100,150,200

4FV Valve Assemblies	
Part No.	Description
34626	Valve ASM, 4FV 1/2" Ball, PTFE
34627	Valve ASM, 4FV 1/2" Ball, Polyprel®

Suction Check Valves & Assemblies	
Part No.	Description
48684	Suction Check Valve
48681	Suction Check Valve
48679	Suction Check Valve
48676	Suction Check Valve, 728, 738,
48677	Suction Check Valve, 812
48678	Suction Check Valve, 813
48680	Suction Check Valve, 823, 833,
48682	Suction Check Valve, 915
48683	Suction Check Valve, 919
48685	Suction Check Valve, 925, 935
48686	Suction Check Valve, 929, 939,
48768	Suction Check Valve, SS
49163	Valve ASM, SUC
38020	Valve ASM, SUC 1/2" PVC
36421	Valve ASM, SUC 1/2" PVDF
36360	Valve ASM, SUC 1/2" PVDF
36504	Valve ASM, SUC 1/4" NPT
36424	Valve ASM, SUC 1/4" NPT
36366	Valve ASM, SUC 1/4" NPT
38018	Valve ASM, SUC 1/4" PVC
36415	Valve ASM, SUC 1/4" PVDF
37846	Valve ASM, SUC 1/4" PVDF Polyprel
38019	Valve ASM, SUC 3/8" PVC
36354	Valve ASM, SUC 3/8" PVDF
36418	Valve ASM, SUC 3/8" PVDF
10562	Valve ASM, SUC LE-20/21
33482	Valve ASM, SUC LE-22/32/32S
26020	Valve ASM, SUC LE-24
27053	Valve ASM, SUC LE-25HV/76PB
25157	Valve ASM, SUC LE-25T
10564	Valve ASM, SUC LE-26/26S
25412	Valve ASM, SUC LE-26T
26014	Valve ASM, SUC LE-35P
25662	Valve ASM, SUC LE-76/86,
25202	Valve ASM, SUC LE-82T
49088	Valve ASM, SUC PVC/AFL/CER
49090	Valve ASM, SUC PVDF/AFL/CER
49089	Valve ASM, SUC PVDF/AFL/CER
49094	Valve ASM, SUC PVDF/AFL/PTFE
49093	Valve ASM, SUC PVDF/AFL/PTFE
49092	Valve ASM, SUC PVDF/PTFE/CER

Discharge Valve Assemblies	
Part No.	Description
10561	Valve ASM, DIS LE-20
30481	Valve ASM, DIS LE-20PB/66PB/76PB/ 86PB
33536	Valve ASM, DIS LE-22/32
27052	Valve ASM, DIS LE-25HV/76-86PB
26013	Valve ASM, DIS LE-25P/35
25156	Valve ASM, DIS LE-25T
10563	Valve ASM, DIS LE-26
25411	Valve ASM, DIS LE-26T
26019	Valve ASM, DIS LE-34
27530	Valve ASM, DIS LE-37
25661	Valve ASM, DIS LE-76/86,
25201	Valve ASM, DIS LE-82T
49098	Valve ASM, DIS SPRING

Seal Rings Kits	
Part No.	Description
10930	Kit, Seal Ring Teflon
25197	Kit, Seal Ring Teflon
10884	Kit, Seal Ring VITON 1/2
10928	Kit, Seal Ring VITON 3/8

Foot Valves & Assemblies	
Part No.	Description
48720	Foot Valve, 812
48724	Foot Valve, 813
48723	Foot Valve, 822, 832, 842
48725	Foot Valve, 823, 833, 843
48718	Foot Valve, 910, X18
49164	Foot Valve, 910A, 918A
48726	Foot Valve, 915
48719	Foot Valve, 919
48721	Foot Valve, 920, 930, 940
49165	Foot Valve, 920A, 928A
48727	Foot Valve, 925, 935, 945
48722	Foot Valve, 929, 939, 949
48873	Foot Valve, 3/8" PVC/TFE
49107	Foot Valve, PP/PTFE/CER, 455
49108	Foot Valve, PP/PTFE/CER, 465, 495
49100	Foot Valve, PVC/AFL/CER, 3/468, 3/498, 460, 490
49099	Foot Valve, PVC/AFL/CER, 358, 450, 458
49101	Foot Valve, PVDF/AFL/CER, 352
49102	Foot Valve, PVDF/AFL/CER, 362, 392
49106	Foot Valve, PVDF/AFL/PTFE, 469, 499
49103	Foot Valve, PVDF/PTFE/CER, 353
49104	Foot Valve, PVDF/PTFE/CER, 363, 393
38271	Valve ASM, Foot
27535	Valve ASM, Foot LE-27/37
36358	Valve ASM, Foot 1/2"
38033	Valve ASM, Foot 1/2"
36419	Valve ASM, Foot 1/2" PVDF Polyprel
36346	Valve ASM, Foot 1/4"
36413	Valve ASM, Foot 1/4"
36502	Valve ASM, Foot 1/4" NPT
36352	Valve ASM, Foot 3/8"
37845	Valve ASM, Foot 3/8" PVDF Polyprel
10153	Valve ASM, Foot LE-20/20S
26021	Valve ASM, Foot LE-24/34
26015	Valve ASM, Foot LE-25P
25154	Valve ASM, Foot LE-25T, 35T
10253	Valve ASM, Foot LE-26/26S
25977	Valve ASM, Foot LE-36
33480	Valve ASM, FT LE-32, 32S

Pressure Relief Valves	
Part No.	Description
35635	Pressure Relief, 1/4" PVC
35636	Pressure Relief, 1/4" PP
35844	Pressure Relief, 1/4" PVDF
35845	Pressure Relief, 1/4" SS
35639	Pressure Relief, 1/2" PVC
35640	Pressure Relief, 1/2" PP
35848	Pressure Relief, 1/2" PVDF
35849	Pressure Relief, 1/2" SS
35852	Pressure Relief, 1" PVC
35853	Pressure Relief, 1" PP
35854	Pressure Relief, 1" PVDF
35855	Pressure Relief, 1" SS

Back Pressure Valves	
Part No.	Description
35637	Back Pressure, 1/4" PVC
35638	Back Pressure, 1/4" PP
35846	Back Pressure, 1/4" PVDF
35847	Back Pressure, 1/4" SS
35641	Back Pressure, 1/2" PVC
35642	Back Pressure, 1/2" PP
35850	Back Pressure, 1/2" PVDF
35851	Back Pressure, 1/2" SS
35856	Back Pressure, 1" PVC
35857	Back Pressure, 1" PP
35858	Back Pressure 1" PVDF
35859	Back Pressure, 1" SS

Injection Valves & Assemblies	
Part No.	Description
48731	Injection Valve, 8X2
48732	Injection Valve, 8X3
48728	Injection Valve, 9X0, XX8
48729	Injection Valve, 9X5
48730	Injection Valve, 9X9
38027	Valve ASM, INJ 1/2" PVC
37358	Valve ASM, INJ 1/2" PVDF
37360	Valve ASM, INJ 1/4" NPT
38025	Valve ASM, INJ 1/4" PVC
37354	Valve ASM, INJ 1/4" PVDF
37848	Valve ASM, INJ 1/4" PVDF
27080	Valve ASM, INJ 25HV 75HV
38026	Valve ASM, INJ 3/8" PVC
37356	Valve ASM, INJ 3/8" PVDF
25273	Valve ASM, INJ 71FS 81FS
32514	Valve ASM, INJ Check SS
25073	Valve ASM, INJ CHK
25178	Valve ASM, INJ CK
25687	Valve ASM, INJ CK
25029	Valve ASM, INJ CK
26851	Valve ASM, INJ CK LE-20/21
25663	Valve ASM, INJ CK LE-20H
33481	Valve ASM, INJ CK LE-22/32/32S
26716	Valve ASM, INJ CK LE-24/34/24WK/34WK
26710	Valve ASM, INJ CK LE-25P/35P
26758	Valve ASM, INJ CK LE-25T
26751	Valve ASM, INJ CK LE-26
27534	Valve ASM, INJ CK LE-27/37
26713	Valve ASM, INJ CK LE-30/36
32088	Valve ASM, INJ. Check
32515	Valve ASM, Check 316 SS

Valve Seats	
Part No.	Description
10792-1	Valve Seat, .375 X 1/4
26032	Valve Seat, 1/2 NPT PP
26001	Valve Seat, 1/2 NPT PVC
10792	Valve Seat, 1/2 Tubing
31937	Valve Seat, 1/2 Tubing
10492	Valve Seat, 1/2 Tubing PVC
35420	Valve Seat, 1/2" NPT
10492-1	Valve Seat, 1/4 NPT
31561-1	Valve Seat, 1/4 NPT PVDF
28664	Valve Seat, 1/4 Tubing
28882	Valve Seat, 1/4 Tubing
10292	Valve Seat, 3/8 OD TUB PVC
10392	Valve Seat, 3/8 Tubing
25600	Valve Seat, Foot PP
10978	Valve Seat, PP
25649	Valve Seat, PP
30383	Valve Seat, PVC
26839	Valve Seat, PVDF 3/8 TUB
25106	Valve Seat, SUC PP 1/2
10206	Valve Seat, Suction PVC

Tubing Connector Assemblies & Connection Systems	
Part No.	Description
26114	PP, .375" O.D. Tubing x 1/2" NPT M
28381	PP, .250" O.D. Tubing x 1/2" NPT M
10482	PP, .375" O.D. Tubing x 1/4" NPT M
10804	PP, .5" O.D. Tubing x 1/2" NPT M
10895	PVC, .5" O.D. Tubing x 1/2" NPT M
77382	Tubing Connection Kit, 1/4"
77383	Tubing Connection Kit, 3/8"
77384	Tubing Connection Kit, 1/2"
77378	Tubing Connection Kit, 3X6MM
77379	Tubing Connection Kit, 6X8MM
77380	Tubing Connection Kit, 9X12MM
48378	Coupling Nut for Tubing Connection System
28896	Connector ASM,
25650	Connector, 1/2 NPT
10833	Connector, 3/8 Tube PP
28804	Connector, Tubing
50618	Coupling nut, PP, Tubing Containment Kit 1/4" & 3/8"
49216	Right Angle adapter for Autoprime™ LE accessories

AutoPrime Valve Components	
Part No.	Description
48707	Autoprime Discharge Cartridge
48706	Autoprime Discharge Cartridge
48704	Autoprime Discharge Check
48705	Autoprime Discharge Check
48709	Autoprime Shuttle Cartridge
48708	Autoprime Shuttle Valve

FastPrime Valve Components	
Part No.	Description
48767	Discharge Check Valve, SS
48551	Fastprime Cartridge Valve, 915
48549	Fastprime Cartridge Valve, 920
48552	Fastprime Cartridge Valve, 925
48698	Fastprime Cartridge Valve, 929
48848	Fastprime Valve xx8, 9x0
48699	Fastprime Valve, 8X2, 9X9
48700	Fastprime Valve, 8X3
48701	Fastprime Valve, 9X5
48670	Fastprime Discharge CV
48672	Fastprime Discharge CV

Valve Housings	
Part No.	Description
10793-1	Valve Housing, .375 X
25173	Valve Housing, .500 X 1/2 PP
10793	Valve Housing, 1/2
26033	Valve Housing, 1/2 NPT
10493	Valve Housing, 1/2 Tubing PVC
10273	Valve Housing, 1/2 Tubing PVC
31562	Valve Housing, 1/2 Tubing PVDF
35585	Valve Housing, 1/2" NPT
31938	Valve Housing, 1/2" Tubing
28665	Valve Housing, 1/4
28883	Valve Housing, 1/4
10493-1	Valve Housing, 1/4 NPT
31562-1	Valve Housing, 1/4 NPT
10393	Valve Housing, 3/8
10293	Valve Housing, 3/8 OD Tubing PVC
31332	Valve Housing, BARBED PP
30375	Valve Housing, PVC
26840	Valve Housing, PVDF 3/8
25199	Valve Housing, UHMWPE
26024	Valve, 1/2 NPT PVC

Tubing*	
Part No.	Description
25636-500	Tubing PE, .250 OD X .062, 500 FEET
28636-500	Tubing PE, .250 OD X .062, 500 FEET
25636-16	Tubing PE, .250 X .062, 16 FEET
27342-500	Tubing PE, .375 OD X .062, 500 FEET
27142-500	Tubing PE, .500 OD X .062, 500 FEET
10469-500	Tubing VINYL, .375 OD X .062, 500 FT
10469-06	Tubing VINYL, .375 OD X .062, 6 FEET
25651-50	Tubing VINYL, .938 OD X .15, 50 FT
10342-500	Tubing, .375 OD X .062 PE, 500 FEET
10142-500	Tubing, .500 OD X .062 PE, 500 FEET
10141-500	Tubing, .500 OD X .062 VINYL, 500 FEET
54783	Tubing, UV Kit, 1/4"
54784	Tubing, UV Kit, 3/8"

Note*-To purchase tubing in foot increments, contact your local distributor.

Cords & Cordsets	
Part No.	Description
30926	Cord ASM, 115V
26293	Cord ASM, 115V B & C
29033CE	Cord ASM, 115V CE
26297	Cord ASM, 220-250V DIN B
29788	Cord ASM, 240V
48851	Cord, POWER USA 120V
48231	Cord, POWER USA 120V
48852	Cord, POWER USA 230V
48414	Cordset, 5-PIN REVERSE KEY
48414	Cordset, 5 pin, 2M / 6.6 FT
49035	Cordset, 6 pin, 2M / 6.6 FT
48488	Cordset, Adapter, Old 4 pin to 5 pin
57958	Cable Adapter, MP-100 for PD7

Connectors & Cable Assemblies	
Part No.	Description
49253	3 Pin Connector (4 Pin standard key)
33796	Cable ASM, 4 PIN/4 WIRE
33738	Cable ASM, 8 PIN/8WIRE
33833	Cable ASM, HALL EFFECT
31277	Connector ASM, 8 PIN
25643	Connector FEMALE, Cable 4-PIN
25644	Connector MALE, Cable 4-PIN
48490	Connector, 5-PIN REVERSE KEY
50503-15	EXTENSION Cable, 15 M / 49.2FT
50503-6	EXTENSION Cable, 6 M / 19.7FT
26034-20	Cable Asm, 4-Pin Extension 20'
26034-50	Cable Asm, 4-Pin Extension 50'
31396-25	Cable Asm, 8-Pin Extension 25'
50703	Cable ASM, Hall Effect - EXCEL AD9
50503-6	5 Pin Extension Cable, 6 M / 19.7 FT
50684-6	6 Pin Extension Cable, 6 M / 19.7 FT

Control Panel Assemblies	
Part No.	Description
48594	Control Panel AD2
50663	PULSER ASM, AD2
48595	Control Panel AD8
50664	PULSER ASM, AD8
48596	Control Panel AD9
50665	PULSER ASM, AD9
33212	Control Panel ASM, 230V
36229	Control Panel ASM, B121, B131, B141
33211	Control Panel ASM, B7/C7
34093	Control Panel ASM, B711
35895CE	Control Panel ASM, B92/B93/B94 115V
36237	Control Panel ASM, C101/C111
36240	Control Panel ASM, C121
36243	Control Panel ASM, C131
36246	Control Panel ASM, C141
33814	Control Panel ASM, C701/C711
33816	Control Panel ASM, C721
33817	Control Panel ASM, C72x
33818	Control Panel ASM, C731
33819	Control Panel ASM, C73x
33821	Control Panel ASM, C74x
33822	Control Panel ASM, C781
33823	Control Panel ASM, C78x
35960CE	Control Panel ASM, C901/C911 115V
35962CE	Control Panel ASM, C921 115 V
35964CE	Control Panel ASM, C931 115V
35966CE	Control Panel ASM, C941 115V
33820	Panel ASM, CONTROL
36256	Panel W/NAMEPLATE, B1/C1
10627	Varistor ASM, 220-250V
31255	Varistor ASM, 240V
31898	STROKE ADJ ASM, B SERIES
36254	PULSER, FIXED

EPU & Spacers	
Part No.	Description
26893	EPU & Spacer ASM, "B"
26893CE	EPU & Spacer ASM, "B"
26897	EPU & Spacer ASM, "B"
32534CE	EPU & Spacer ASM, "C"
32536CE	EPU & Spacer ASM, "C"
32534	EPU & Spacer ASM, "C" 1.8SI 120V
32536	EPU & Spacer ASM, "C" 3.0SI 120V
32329	EPU & Spacer ASM, C771
30240	EPU ASM W/DISK, 0.5
30107	EPU ASM W/DISK, 0.5
30242	EPU ASM W/DISK, 0.9
32158CE	EPU ASM, 120V C7 C9 CE
32314	EPU ASM, 120V C781
32158	EPU ASM, 120V, CX01,CX11
32159	EPU ASM, 220/240V
30154	EPU ASM, 3.0 82 OHMS
32239	EPU ASM, C761/C771
31929CE	EPU W/STROKE ADJ, "B"
31927CE	EPU W/STROKE ADJ, "B"
31927	EPU W/STROKE ADJ, "B" 0.9 115V (D SHAFT)
31929	EPU W/STROKE ADJ, "B" 1.8 115V (D SHAFT)
30155	EPU, 3.0 330 OHMS
30531	EPU, 3.0 313 OHMS 240V
31862	EPU, 3.0 82 OHMS
30530	EPU, 3.0 82 OHMS 120 V
35394	Spacer W/PLUG 5X5 1.8
35395	Spacer W/PLUG 5X5 3.0
35837	Spacer, 0.9 W/O Bosses
35838	Spacer, 1.8 W/O Bosses
27516	Spacer, 1.8SI 4.2C
35839	Spacer, 3.0 W/O Bosses
27517	Spacer, 3.0SI 4.2C
36905	Spacer, FM-PRO

Seal Ring Kits	
Part No.	Description
25197	Kit, Seal Ring PTFE 1/2" Ball
10930	Kit, Seal Ring , PTFE 3/8" Ball
10884	Kit, Seal ring, Viton® 1/2" Ball
10928	Kit, Seal ring, Viton® 3/8" Ball
29570	Kit, Seal Ring, Polyprel® 3/8" Ball

Accessories	
Part No.	Description
10461	Pump Mounting Kit
34643	Polypropylene Wall Bracket Asm w/ mounting hardware
48603	Clear Cover for EXCEL™ AD
37144	Kit, Hastelloy C head screws [4], 10-24 x 0.75

Heads	
Part No.	Description
28390	Head, 0.5 Acrylic
38571	Head, 0.5 Acrylic HV
38571-1	Head, 0.5 Acrylic HV
38578	Head, 0.5 Machined
38579	Head, 0.5 Machined PVC
37750	Head, 0.5 Molded PVC
37980	Head, 0.5 Molded PVDF(DEEP COR
28391	Head, 0.5 PP
38572	Head, 0.5 PP HV
38572-1	Head, 0.5 PP HV
29609	Head, 0.5 PVDF
32506	Head, 0.5 SS 316
38568	Head, 0.9 Acrylic HV
25550	Head, 0.9 Acrylic HV
38568-1	Head, 0.9 Acrylic HV
38561	Head, 0.9 Machined
38562	Head, 0.9 Machined PVC
37752	Head, 0.9 Molded PVC
38569-1	Head, 0.9 PP HV
38569	Head, 0.9 PP HV
26050-1	Head, 0.9 PP HV
29611	Head, 0.9 PVDF
32507	Head, 0.9 SS 316
38592	Head, 1.8 Acrylic HV
38592-1	Head, 1.8 Acrylic HV
38595	Head, 1.8 Acrylic MACH
37742	Head, 1.8 Machined PVC
37754	Head, 1.8 Molded PVC
38593	Head, 1.8 PP HV
26040	Head, 1.8 PP HV
38593-1	Head, 1.8 PP HV
38596	Head, 1.8 PVC Machined
27214	Head, 1.8 PVDF
32508	Head, 1.8 SS 316
27511	Head, 1.8 UHMWPE SLURRY
27394	Head, 3.0 316 SS
10524	Head, 3.0 Acrylic
10524-3	Head, 3.0 Acrylic
37745	Head, 3.0 Machined PVC
37756	Head, 3.0 Molded PVC
10681	Head, 3.0 PP
10681-4	Head, 3.0 PP
10681-3	Head, 3.0 PP HV
10525	Head, 3.0 PVC
31053	Head, 3.0 PVDF Molded
32509	Head, 3.0 SS 316
25718	Head, 6.0 Acrylic
25906	Head, 6.0 PP
25906-3	Head, 6.0 PP HV
25905	Head, 6.0 PVC
48429	Head, Autoprime SC3 PVC
48743	Head, Autoprime, 0.5 ACL
48744	Head, Autoprime, 0.9 ACL
48745	Head, Autoprime, 1.8 ACL
48748	Head, Autoprime, 1.8 PVC
50529	Head, Autoprime, 3.0 ACL
50530	Head, Autoprime, 3.0 PVC
48422	Head, Autoprime, SC1 ACL
48423	Head, Autoprime, SC1 PVC
48425	Head, Autoprime, SC2 ACL
48426	Head, Autoprime, SC2 PVC
48428	Head, Autoprime, SC3 ACL
48431	Head, Autoprime, SC4 ACL
48432	Head, Autoprime, SC4 PVC

Heads	
Part No.	Description
36156	Head, Machined 0.5 Acrylic
36157	Head, Machined 0.9
36159	Head, Machined 3.0
49329	Head, Machined SC2 HV Acrylic
49332	Head, Machined SC2 HV Ported PP
49331	Head, Machined SC2 HV PP
49334	Head, Machined SC3 HV Acrylic
49337	Head, Machined SC3 HV Ported PP
49336	Head, Machined SC3 HV PP
49339	Head, Machined SC4 HV Acrylic
49342	Head, Machined SC4 HV Ported PP
49341	Head, Machined SC4 HV PP
48214	Head, Machined, SC1 ACL
48216	Head, Machined, SC1 PP
48218	Head, Machined, SC2 ACL
48220	Head, Machined, SC2 PP
48219	Head, Machined, SC2 PVC
48222	Head, Machined, SC3 ACL
48224	Head, Machined, SC3 PP
48226	Head, Machined, SC4 ACL
36128	Head, Molded 3.0 PVDF
48363	Head, Molded Fastprime SC2
48364	Head, Molded Fastprime SC2
48366	Head, Molded Fastprime SC3
48367	Head, Molded Fastprime SC3
48370	Head, Molded Fastprime SC4
48369	Head, Molded Fastprime SC4
48471	Head, SC1, 316 SS
48472	Head, SC2, 316 SS
48473	Head, SC3, 316 SS
48474	Head, SC4, 316 SS

Pump Housings	
Part No.	Description
28970	Housing ASM, 115V B7 BE
49031	Housing ASM, 120 V
28983	Housing ASM, 220-240V
35949CE	Housing ASM, B9X1/C9X1
35956CE	Housing ASM, B9X6/C9X6
32405	Housing ASM, C7X6
28925	Housing LESS WIRES
35398	Housing, 5 X 5 W/PG9
48599	Housing, AD
29256	Housing, B1 SERIES
35890	Housing, B9/C9
35404	Housing, LESS WIRES

Liquiframs	
Part No.	Description
30916	Liquifram, 0.5 Fluorfilm
30917	Liquifram, 0.9 Fluorfilm
31420	Liquifram, 1.8 Fluorfilm
31419	Liquifram, 3.0 Fluorfilm (NON FABRIC)
25719	Liquifram, 6.0 Fluorfilm (NON FABRIC)
55322	Liquifram, SC0 Fluorfilm
48186	Liquifram, SC1
48187	Liquifram, SC2
48188	Liquifram, SC3
48189	Liquifram, SC4

Balls	
Part No.	Description
26323	Ball GUIDE, .500 DIA
26025	Ball, .188 Teflon
10338	Ball, .375 Ceramic
10659	Ball, .375 SS
10444	Ball, .375 Teflon
10138	Ball, .500 Ceramic
25042	Ball, .500 SS
10601	Ball, .500 Teflon

Bushings	
Part No.	Description
27301	Bushing, .375 ID X .375
25344	Bushing, .71ID X .75OD X .75 NY
32862	Bushing, SHAFT AX1S

Cartridges	
Part No.	Description
36303	Cartridge ASM, .281
36304	Cartridge ASM, .281
36307	Cartridge ASM, .375 [PVDF/POLYPREL]
36306	Cartridge ASM, .375 [PVDF/Teflon]
37857	Cartridge ASM, .375 PVC/POLYPREL
49097	Cartridge SUB ASM, Spring
37334	Liquid End Cartridge
37337	Liquid End Cartridge
37858	Liquid End Cartridge
37859	Liquid End Cartridge
37335	Liquid End Cartridge
37338	Liquid End Cartridge
48545	Cartridge Valve, 915, 813
48543	Cartridge Valve, 920, 930, 940
48546	Cartridge Valve, 925, 935, 945
48692	Cartridge Valve, 929, 939, 949
48795	Injection VLV Cartridge

Connectors	
Part No.	Description
27397	CONNECTOR, MALE 35

Liquid End Adapter Disks	
Part No.	Description
29445	Disk, 0.5
29437	Disk, 0.9
48167	Disk, LE Adapter SC1
48168	Disk, LE Adapter SC2
48169	Disk, LE Adapter SC3
48170	Disk, LE Adapter SC4

Ferrules	
Part No.	Description
50508	Ferrule 1/4" ferrule kit (50 pcs)
50509	Ferrule 3/8" ferrule kit
50510	Ferrule 1/2" ferrule kit

Gaskets	
Part No.	Description
30803	Gasket, NEOPRENE
34118	Gasket, PACK JOINT
34115	Gasket, PACK JOINT
10465	GROMMET, .25 X .56 NEOPRENE

Labels	
Part No.	Description
30643	Label COVER, CLEAR
35184	Label SET, SILVER (BLANK)
28410	Label, MODEL # FIELD

Knobs and Stroke Dials	
Part No.	Description
31891	KNOB ASM, "B" SERIES
30709	KNOB, PUSH-ON
27097	STICKER, Stroke Dial DX4
25882	Stroke Dial, BX1
32465	Stroke Dial, CX1
32466	Stroke Dial, CX2/CX6
32467	Stroke Dial, CX3

Boxes and Packing Inserts	
Part No.	Description
30414	Box, "U" AND "P" PUMP
37394	Box, 15 1/8 X 10 5/8 X 10 13/16 BROWN PRIN
27226	Box, 20 1/4 X 20 1/4 X 31
25299	Box, OUTER 12 X 9 X 11
25970	Box, Tank 50 GALLON
31032	INSERT, "B" SERIES
25301	INSERT, PACKING PSF

Brackets	
Part No.	Description
10746	BRACKET, PUMP HOLD-DOWN

Cap Plug Assemblies	
Part No.	Description
36280	Cap ASM, A/S
36260	Cap ASM, Relief
25985	Cap ASM, Tank
10437	Cap, Plug .516 OD PE
27039	Cap, Plug 5.25OD PE
26779	Cap, Plug PE Black 10 GAL Tank
25125	Cap, SLEEVE .69OD PE
25630	Cap, Tube
34114	Plug, Audio 3.5 MM
10436	Plug, Cap .375 OD, PE (Yellow)
30744	Plug, Cap 1-14
10346	Plug, PE (Black)
25648	Plug, 3/4 - 16 PP Yellow

Tubing and Hose Clamps	
Part No.	Description
37203	Clamp Ring, 1/2" Tubing SST
26136	Clamp Ring, 3/8 OD Tubing
25652	Clamp, Hose

Coupling Nuts and Relief Tubing Nuts	
Part No.	Description
10411	Coupling Nut, PP 1/2
10299	Coupling Nut, PP 3/8
25628	Nut, 6-32 X HEX SS
25631	Nut, Relief Tubing

Plastic Dowel	
Part No.	Description
28898	DOWEL, PLASTIC .250 OD X 1.75L

Fittings	
Part No.	Description
48791	Fitting DBL Ball w/ O-Ring, PVC/Polyprel®
48792	Fitting DBL Ball w/ O-Ring, PVDF/Polyprel®
48793	Fitting DBL Ball w/ O-Ring, PVDF/PTFE
48794	Fitting DBL Ball w/ O-Ring, Polyprel®/PTFE
48787	Fitting SGL Ball w/ O-Ring, PVC/Polyprel®
48788	Fitting SGL Ball w/ O-Ring, PVDF/Polyprel®
48789	Fitting SGL Ball w/ O-Ring, PVDF/PTFE
48790	Fitting SGL Ball w/ O-Ring, Polyprel®/PTFE
37763	Fitting with Washer
37765	Fitting with Washer
37767	Fitting with Washer
37769	Fitting with Washer
37117	Fitting with Washer, 1/2" Tubing PVDF (CART) 10
37119	Fitting with Washer, 1/4" NPT PVDF (CART)
37113	Fitting with Washer, 1/4" Tubing PVDF (CART) 10
37115	Fitting with Washer, 3/8" Tubing PVDF (CART) 10
48617	Fitting, Injection VLV, PVC
48618	Fitting, Injection VLV, PVDF
26841	Fitting, Injector
25108	Fitting, Injector 1/2 PP
10394	Fitting, Injector 3/8 PP
10294	Fitting, Injector PVC
37351	Fitting, Liquipro

Liquid End Hardware	
Part No.	Description
49109	Liquid End Hardware, 4XX, DXX
48703	Liquid End Hardware, 7XX, 8XX
48702	Liquid End Hardware, 9XX

Seal Rings & Retaining Rings	
Part No.	Description
48313	RETAINING Ring, 8MM
34116	Ring, ANTI-FRICTION
10422	Ring, RETAINING
27253	Ring, RETAINING EXT 3/8
10407	Ring, Seal .375 Teflon
10207	Ring, Seal .375 VITON
25128	Ring, Seal .500 Teflon
10228	Ring, Seal .500 VITON

Springs	
Part No.	Description
27034	Spring & PAD ASM, D
25558	Spring, .42 X .24 X 1.0
37539	Spring, CLEAR PVDF
30348	Spring, COATED
37341	Spring, COMPRESSION
37349	Kit, REPLACEMENT, Spring LOADED Liquipro II 10

Coupling Knobs	
Part No.	Description
48646	Coupling KNOB, 4FV
48646	Coupling KNOB, 4FV
36204	Coupling, Foot Valve PP

Other	
Part No.	Description
27401	NIPPLE, 1/4 CLOSE PVC
35744	PIN, DUAL
35743	SHAFT, SPEED ADJ
10322	WEIGHT, SUCTION Tubing
48622	4FV Bleed Nut - Roytronic
27352	FLAPPER Valve,
10123	STRAINER, Foot Valve PP

O-Rings	
Part No.	Description
36103	O-Ring, .549 ID X .103 W POLYPREL
33264	O-Ring, .674 ID X .103 W POLYPREL
26983	O-Ring, .937 ID X .139 W
34497	O-Ring, 0.25ID x 0.437OD
48347	O-Ring, 2-008 80D AFLAS
48349	O-Ring, 2-111, 80DUR AFLAS
10166	O-Ring, 3.989 ID X .070 W BUNA N
35269	O-Ring, 4.984 ID X .139
48590	O-Ring, PTFE, 2-007, WHITE
48591	O-Ring, PTFE, 2-111
48589	O-Ring, PTFE, 2-113

Screws	
Part No.	Description
30856	SCREW, 10-24 1.25L SS
10598	SCREW, 10-24 X .625 PH SS
10340	SCREW, 10-24 X .75 PH SS
25127	SCREW, 10-24 X 4.5 RH SS

Shims	
Part No.	Description
32654	SHIM, .020 THICK 4.2
27586	SHIM, 3.5S 4.2C NY

Stud Assemblies	
Part No.	Description
27641-1	STUD ASM, 3.0 SI 4.2C
27641	STUD ASM, 3.5 SI 4.2C

Varistor	
Part No.	Description
10626	VARISTOR ASM, 115V

Washers	
Part No.	Description
38490	Washer, FLAT #10 SS 316
30970	Washer, PLUNGER ASM
36107	Washer, Cartridge Valve

Part Number	Description	UM
10123	STRAINER, FOOT VALVE PP	EA
10138	BALL, .500 CERAMIC	EA
10153	VALVE ASM, FOOT LE-20/20S	EA
10166	O-RING, 3.989 ID X .070 W BUNA N	EA
10206	VALVE SEAT, SUCTION PVC	EA
10207	RING, SEAL .375 VITON	EA
10228	RING, SEAL .500 VITON	EA
10253	VALVE ASM, FOOT LE-26/26S	EA
10273	VALVE HOUSING, 1/2 TUBING PVC	EA
10292	VALVE SEAT, 3/8 OD TUB PVC	EA
10293	VALVE HOUSING, 3/8 OD TUBING PVC	EA
10294	FITTING, INJECTOR PVC	EA
10299	COUPLING NUT, PP 3/8	EA
10322	WEIGHT, SUCTION TUBING	EA
10338	BALL, .375 CERAMIC	EA
10340	SCREW, 10-24 X .75 PH SS	EA
10346	PLUG, PE (BLACK)	EA
10392	VALVE SEAT, 3/8 TUBING	EA
10393	VALVE HOUSING, 3/8	EA
10394	FITTING, INJECTOR 3/8 PP	EA
10407	RING, SEAL .375 TEFLON	EA
10411	COUPLING NUT, PP 1/2	EA
10422	RING, RETAINING	EA
10436	PLUG, CAP .375 OD, PE (YELLOW)	EA
10437	CAP, PLUG .516 OD PE	EA
10444	BALL, .375 TEFLON	EA
10465	GROMMET, .25 X .56 NEOPRENE	EA
10492	VALVE SEAT, 1/2 TUBING PVC	EA
10493	VALVE HOUSING, 1/2 TUBING PVC	EA
10524	HEAD, 3.0 ACRYLIC	EA
10525	HEAD, 3.0 PVC	EA
10561	VALVE ASM, DIS LE-20	EA
10562	VALVE ASM, SUC LE-20/21	EA
10563	VALVE ASM, DIS LE-26	EA
10564	VALVE ASM, SUC LE-26/26S	EA
10590	AGITATOR, 34" SS 115V	EA
10598	SCREW, 10-24 X .625 PH SS	EA
10601	BALL, .500 TEFLON	EA
10626	VARISTOR ASM, 115V	EA
10627	VARISTOR ASM, 220-250V	EA
10659	BALL, .375 SS	EA
10681	HEAD, 3.0 PP	EA
10746	BRACKET, PUMP HOLD-DOWN	EA
10792	VALVE SEAT, 1/2 TUBING	EA
10793	VALVE HOUSING, 1/2	EA
10804	CONNECTOR ASM	EA
10833	CONNECTOR, 3/8 TUBE PP	EA
10884	KIT, SEAL RING VITON 1/2	EA
10895	CONNECTOR ASM	EA
10928	KIT, SEAL RING VITON 3/8	EA
10930	KIT, SEAL RING TEFLON	EA
10978	VALVE SEAT, PP	EA
25029	VALVE ASM, INJ CK	EA
25042	BALL, .500 SS	EA
25073	VALVE ASM, INJ CHK	EA
25106	VALVE SEAT, SUC PP 1/2	EA
25108	FITTING, INJECTOR 1/2 PP	EA
25125	CAP, SLEEVE .690D PE	EA
25127	SCREW, 10-24 X 4.5 RH SS	EA
25128	RING, SEAL .500 TEFLON	EA
25154	VALVE ASM, FOOT LE-25T, 35T	EA
25156	VALVE ASM, DIS LE-25T	EA
25157	VALVE ASM, SUC LE-25T	EA
25173	VALVE HOUSING, .500 X 1/2 PP	EA
25178	VALVE ASM, INJ CK	EA
25197	KIT, SEAL RING TEFLON	EA
25199	VALVE HOUSING, UHMWPE	EA
25201	VALVE ASM, DIS LE-82T	EA
25202	VALVE ASM, SUC LE-82T	EA
25273	VALVE ASM, INJ 71FS 81FS	EA
25290	AGITATOR, 34" SS	EA
25292	AGITATOR, 34" N 220-240V	EA
25299	BOX, OUTER 12 X 9 X 11	EA
25301	INSERT, PACKING PSF	EA
25335	NOZZLE ASM, CORP STOP	EA
25344	BUSHING, .71ID X .75OD X .75 NY	EA
25411	VALVE ASM, DIS LE-26T	EA
25412	VALVE ASM, SUC LE-26T	EA
25550	HEAD, 0.9 ACRYLIC HV	EA
25558	SPRING, .42 X .24 X 1.0	EA
25600	VALVE SEAT, FOOT PP	EA
25628	NUT, 6-32 X HEX SS	EA
25630	CAP, TUBE	EA

Part Number	Description	UM
25631	NUT, RELIEF TUBING	EA
25643	CONNECTOR FEMALE, CABLE 4-PIN	EA
25644	CONNECTOR MALE, CABLE 4-PIN	EA
25648	PLUG, 3/4 - 16 PP YELLOW	EA
25649	VALVE SEAT, PP	EA
25650	CONNECTOR, 1/2 NPT	EA
25652	CLAMP, HOSE	EA
25661	VALVE ASM, DIS LE-76/86,	EA
25662	VALVE ASM, SUC LE-76/86,	EA
25663	VALVE ASM, INJ CK LE-20H	EA
25687	VALVE ASM, INJ CK	EA
25718	HEAD, 6.0 ACRYLIC	EA
25719	LIQUIFRAM, 6.0 FLUOROFILM (NON FABRIC)	EA
25882	STROKE DIAL, BX1	EA
25905	HEAD, 6.0 PVC	EA
25906	HEAD, 6.0 PP	EA
25970	BOX, TANK 50 GALLON	EA
25977	VALVE ASM, FOOT LE-36	EA
25985	CAP ASM, TANK	EA
26001	VALVE SEAT, 1/2 NPT PVC	EA
26013	VALVE ASM, DIS LE-25P/35	EA
26014	VALVE ASM, SUC LE-35P	EA
26015	VALVE ASM, FOOT LE-25P	EA
26019	VALVE ASM, DIS LE-34	EA
26020	VALVE ASM, SUC LE-24	EA
26021	VALVE ASM, FOOT LE-24/34	EA
26024	VALVE, 1/2 NPT PVC	EA
26025	BALL, .188 TEFLON	EA
26032	VALVE SEAT, 1/2 NPT PP	EA
26033	VALVE HOUSING, 1/2 NPT	EA
26040	HEAD, 1.8 PP HV	EA
26136	CLAMP RING, 3/8 OD TUBING	EA
26293	CORD ASM, 115V B & C	EA
26297	CORD ASM, 220-250V DIN B	EA
26323	BALL GUIDE, .500 DIA	EA
26350	TANK AND COVER ASM	EA
26576	MOTOR, AGITATOR 115V	EA
26577	SHAFT ASM, AGITATOR 35"	EA
26579	FLANGE, AGITATOR MOUNTING	EA
26637	COVER, TANK 50 GALLON	EA
26710	VALVE ASM, INJ CK LE-25P/35P	EA
26713	VALVE ASM, INJ CK LE-30/36	EA
26716	VALVE ASM, INJ CK LE-24/34/24WK/34WK	EA
26731	SWITCH ASM, LL 115V	EA
26732	SWITCH ASM, LL 230V	EA
26751	VALVE ASM, INJ CK LE-26	EA
26758	VALVE ASM, INJ CK LE-25T	EA
26779	CAP, PLUG PE BLACK 10 GAL TANK	EA
26839	VALVE SEAT, PVDF 3/8 TUB	EA
26840	VALVE HOUSING, PVDF 3/8	EA
26841	FITTING, INJECTOR	EA
26851	VALVE ASM, INJ CK LE-20/21	EA
26893	EPU & SPACER ASM, "B"	EA
26897	EPU & SPACER ASM, "B"	EA
26900	TANK ASM, SATURATOR	EA
26983	O-RING, .937 ID X .139 W	EA
27034	SPRING & PAD ASM, D	EA
27039	CAP, PLUG 5.25OD PE	EA
27052	VALVE ASM, DIS LE-25HV/76-86PB	EA
27053	VALVE ASM, SUC LE-25HV/76PB	EA
27080	VALVE ASM, INJ 25HV 75HV	EA
27097	STICKER, STROKE DIAL DX4	EA
27214	HEAD, 1.8 PVDF	EA
27226	BOX, 20 1/4 X 20 1/4 X 31	EA
27253	RING, RETAINING EXT 3/8	EA
27300	VALVE, 1/4 ANGLE PVC	EA
27301	BUSHING, .375 ID X .375	EA
27352	FLAPPER VALVE,	EA
27394	HEAD, 3.0 316 SS	EA
27397	CONNECTOR, MALE 35	EA
27400	TANK ASM, 35 GAL	EA
27401	NIPPLE, 1/4 CLOSE PVC	EA
27417	SWITCH ASM, LL 35 GAL	EA
27511	HEAD, 1.8 UHMWPE SLURRY	EA
27516	SPACER, 1.8SI 4.2C	EA
27517	SPACER, 3.0SI 4.2C	EA
27530	VALVE ASM, DIS LE-37	EA
27535	VALVE ASM, FOOT LE-27/37	EA
27586	SHIM, 3.5S 4.2C NY	EA
27591	AGITATOR, 27" SS 115V	EA
27641	STUD ASM, 3.5 SI 4.2C	EA
28390	HEAD, 0.5 ACRYLIC	EA
28391	HEAD, 0.5 PP	EA

Part Number	Description	UM
28410	LABEL, MODEL # FIELD	EA
28663	FERRULE, 1/4" OD	EA
28664	VALVE SEAT, 1/4 TUBING	EA
28665	VALVE HOUSING, 1/4	EA
28804	CONNECTOR, TUBING	EA
28882	VALVE SEAT, 1/4 TUBING	EA
28883	VALVE HOUSING, 1/4	EA
28896	CONNECTOR ASM,	EA
28898	DOWEL, PLASTIC .250 OD X 1.75L	EA
28925	HOUSING LESS WIRES	EA
28970	HOUSING ASM, 115V B7 BE	EA
28983	HOUSING ASM, 220-240V	EA
29190	SWITCH ASM, LEVEL A7 B7 D7	EA
29256	HOUSING, B1 SERIES	EA
29437	DISK, 0.9	EA
29445	DISK, 0.5	EA
29609	HEAD, 0.5 PVDF	EA
29611	HEAD, 0.9 PVDF	EA
29788	CORD ASM, 240V	EA
30107	EPU ASM W/DISK, 0.5	EA
30154	EPU ASM, 3.0 82 OHMS	EA
30155	EPU, 3.0 330 OHMS	EA
30240	EPU ASM W/DISK, 0.5	EA
30242	EPU ASM W/DISK, 0.9	EA
30348	SPRING, COATED	EA
30375	VALVE HOUSING, PVC	EA
30383	VALVE SEAT, PVC	EA
30414	BOX, "U" AND "P" PUMP	EA
30481	VALVE ASM, DIS LE-20PB/66PB/76PB/ 86PB	EA
30530	EPU, 3.0 82 OHMS 120 V	EA
30531	EPU, 3.0 313 OHMS 240V	EA
30643	LABEL COVER, CLEAR	EA
30709	KNOB, PUSH-ON	EA
30744	PLUG, CAP 1-14	EA
30803	GASKET, NEOPRENE	EA
30856	SCREW, 10-24 1.25L SS	EA
30896	CABLE ASM, CORP STOP 3/4	EA
30897	CABLE ASM, CORP STOP 1" STD	EA
30916	LIQUIFRAM, 0.5 FLUORFILM	EA
30917	LIQUIFRAM, 0.9 FLUORFILM	EA
30926	CORD ASM, 115V	EA
30970	WASHER, PLUNGER ASM	EA
31032	INSERT, "B" SERIES	EA
31053	HEAD, 3.0 PVDF MOLDED	EA
31255	VARISTOR ASM, 240V	EA
31271	DIVIDER ASM, PD-4	EA
31277	CONNECTOR ASM, 8 PIN	EA
31332	VALVE HOUSING, BARBED PP	EA
31419	LIQUIFRAM, 3.0 FLUORFILM (NON FABRIC)	EA
31420	LIQUIFRAM, 1.8 FLUORFILM	EA
31562	VALVE HOUSING, 1/2 TUBING PVDF	EA
31862	EPU, 3.0 82 OHMS	EA
31891	KNOB ASM, "B" SERIES	EA
31898	STROKE ADJ ASM, B SERIES	EA
31927	EPU W/STROKE ADJ, "B" 0.9 115V (D SHAFT)	EA
31929	EPU W/STROKE ADJ, "B" 1.8 115V (D SHAFT)	EA
31937	VALVE SEAT, 1/2 TUBING	EA
31938	VALVE HOUSING, 1/2" TUBING	EA
32088	VALVE ASM, INI CHECK	EA
32158	EPU ASM, 120V, CX01,CX11	EA
32159	EPU ASM, 220/240V	EA
32239	EPU ASM, C761/C771	EA
32314	EPU ASM, 120V C781	EA
32329	EPU & SPACER ASM, C771	EA
32405	HOUSING ASM, C7X6	EA
32465	STROKE DIAL, CX1	EA
32466	STROKE DIAL, CX2/CX6	EA
32467	STROKE DIAL, CX3	EA
32506	HEAD, 0.5 SS 316	EA
32507	HEAD, 0.9 SS 316	EA
32508	HEAD, 1.8 SS 316	EA
32509	HEAD, 3.0 SS 316	EA
32514	VALVE ASM, INI CHECK SS	EA
32515	VALVE ASM, CHECK 316 SS	EA
32534	EPU & SPACER ASM, "C" 1.8SI 120V	EA
32536	EPU & SPACER ASM, "C" 3.0SI 120V	EA
32654	SHIM, .020 THICK 4.2	EA
32862	BUSHING, SHAFT AX1S	EA
33211	CONTROL PANEL ASM, B7/C7	EA
33212	CONTROL PANEL ASM, 230V	EA
33256	MAGNET, DIGIPULSE	EA
33264	O-RING, .674 ID X .103 W POLYPREL	EA
33480	VALVE ASM, FT LE-32, 32S	EA

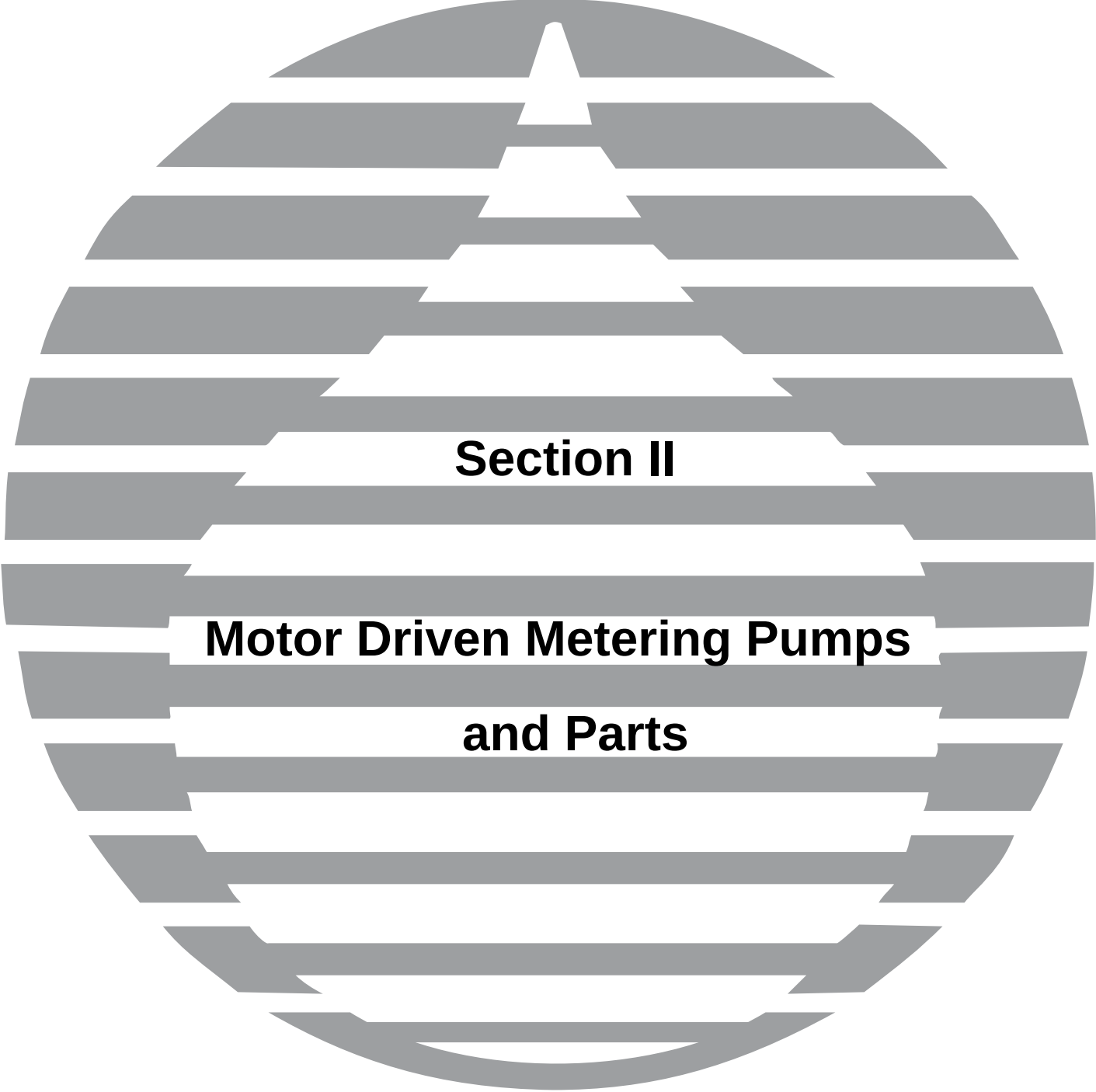
Part Number	Description	UM
33481	VALVE ASM, INJ CK LE-22/32/32S	EA
33482	VALVE ASM, SUC LE-22/32/32S	EA
33510	SWITCH ASM, LL 35 GAL (230V)	EA
33536	VALVE ASM, DIS LE-22/32	EA
33738	CABLE ASM, 8 PIN/8WIRE	EA
33796	CABLE ASM, 4 PIN/4 WIRE	EA
33814	CONTROL PANEL ASM, C701/C711	EA
33816	CONTROL PANEL ASM, C721	EA
33817	CONTROL PANEL ASM, C72X	EA
33818	CONTROL PANEL ASM, C731	EA
33819	CONTROL PANEL ASM, C73X	EA
33820	PANEL ASM, CONTROL	EA
33821	CONTROL PANEL ASM, C74X	EA
33822	CONTROL PANEL ASM, C781	EA
33823	CONTROL PANEL ASM, C78X	EA
33833	CABLE ASM, HALL EFFECT	EA
34093	CONTROL PANEL ASM, B711	EA
34114	Plug, Audio 3.5 MM	EA
34115	GASKET, PACKJOINT	EA
34116	RING, ANTI-FRICTION	EA
34118	GASKET, PACK JOINT	EA
34497	O-RING, 0.25ID x 0.437OD	EA
34504	AGITATOR, 27" SS 230V	EA
34566	FLOW CONTROLLER	EA
35184	LABEL SET, SILVER (BLANK)	EA
35269	O-RING, 4.984 ID X .139	EA
35394	SPACER W/PLUG 5X5 1.8	EA
35395	SPACER W/PLUG 5X5 3.0	EA
35398	HOUSING, 5 X 5 W/PG9	EA
35404	HOUSING, LESS WIRES	EA
35420	VALVE SEAT, 1/2" NPT	EA
35585	VALVE HOUSING, 1/2" NPT	EA
35643	CYLINDER, CALIBRATION 200 ML SEALED TOP	EA
35644	CYLINDER, CALIBRATION 1000 ML SEALED TOP	EA
35645	CYLINDER, CALIBRATION 200 ML EZ CLEAN	EA
35710	CYLINDER, CALIBRATION 1000mL EZ Clean	EA
35743	SHAFT, SPEED ADJ	EA
35744	PIN, DUAL	EA
35837	SPACER, 0.9 W/O BOSSES	EA
35838	SPACER, 1.8 W/O BOSSES	EA
35839	SPACER, 3.0 W/O BOSSES	EA
35890	HOUSING, B9/C9	EA
36103	O-RING, .549 ID X .103 W POLYPREL	EA
36107	WASHER, CARTRIDGE VALVE	EA
36128	HEAD, MOLDED 3.0 PVDF	EA
36156	HEAD, MACHINED 0.5 ACRYLIC	EA
36157	HEAD, MACHINED 0.9	EA
36159	HEAD, MACHINED 3.0	EA
36204	COUPLING, FOOT VALVE PP	EA
36229	CONTROL PANEL ASM, B121, B131, B141	EA
36237	CONTROL PANEL ASM, C101/C111	EA
36240	CONTROL PANEL ASM, C121	EA
36243	CONTROL PANEL ASM, C131	EA
36246	CONTROL PANEL ASM, C141	EA
36254	PULSER, FIXED	EA
36256	PANEL W/NAMEPLATE, B1/C1	EA
36260	CAP ASM, RELIEF	EA
36280	CAP ASM, A/S	EA
36303	CARTRIDGE ASM, .281	EA
36304	CARTRIDGE ASM, .281	EA
36306	CARTRIDGE ASM, .375	EA
36307	CARTRIDGE ASM, .375	EA
36346	VALVE ASM, FOOT 1/4"	EA
36352	VALVE ASM, FOOT 3/8"	EA
36354	VALVE ASM, SUC 3/8" PVDF	EA
36358	VALVE ASM, FOOT 1/2"	EA
36360	VALVE ASM, SUC 1/2" PVDF	EA
36366	VALVE ASM, SUC 1/4" NPT	EA
36413	VALVE ASM, FOOT 1/4"	EA
36415	VALVE ASM, SUC 1/4" PVDF	EA
36418	VALVE ASM, SUC 3/8" PVDF	EA
36419	VALVE ASM, FOOT 1/2" PVDF POLYPREL	EA
36421	VALVE ASM, SUC 1/2" PVDF	EA
36424	VALVE ASM, SUC 1/4" NPT	EA
36502	VALVE ASM, FOOT 1/4" NPT	EA
36504	VALVE ASM, SUC 1/4" NPT	EA
36905	SPACER, FM-PRO	EA
37113	FITTING WITH WASHER, 1/4" TUBING PVDF (CART)	EA
37115	FITTING WITH WASHER, 3/8" TUBING PVDF (CART)	EA
37117	FITTING WITH WASHER, 1/2" TUBING PVDF (CART)	EA
37119	FITTING WITH WASHER, 1/4" NPT PVDF (CART)	EA
37144	SCREW KIT, HASTELLOY (4)	
37203	CLAMP RING, 1/2" TUBING SST	

Part Number	Description	UM
37334	Liquid End Cartridge	EA
37335	Liquid End Cartridge	EA
37337	Liquid End Cartridge	EA
37338	Liquid End Cartridge	EA
37341	SPRING, COMPRESSION	EA
37349	KIT, REPLACEMENT, SPRING LOADED LIQUIPRO INJ C	EA
37351	FITTING, LIQUIPRO	EA
37354	VALVE ASM, INJ 1/4" PVDF	EA
37356	VALVE ASM, INJ 3/8" PVDF	EA
37358	VALVE ASM, INJ 1/2" PVDF	EA
37360	VALVE ASM, INJ 1/4" NPT	EA
37394	BOX, 15 1/8 X 10 5/8 X 10 13/16 BROWN PRINTED	EA
37539	SPRING, CLEAR PVDF	EA
37742	HEAD, 1.8 MACHINED PVC	EA
37745	HEAD, 3.0 MACHINED PVC	EA
37750	HEAD, 0.5 MOLDED PVC	EA
37752	HEAD, 0.9 MOLDED PVC	EA
37754	HEAD, 1.8 MOLDED PVC	EA
37756	HEAD, 3.0 MOLDED PVC	EA
37763	FITTING WITH WASHER,	EA
37765	FITTING WITH WASHER,	EA
37767	FITTING WITH WASHER,	EA
37769	FITTING WITH WASHER,	EA
37845	VALVE ASM, FOOT 3/8" PVDF POLYPREL	EA
37846	VALVE ASM, SUC 1/4" PVDF POLYPREL	EA
37848	VALVE ASM, INJ 1/4" PVDF	EA
37857	CARTRIDGE ASM, .375 PVC/POLYPREL	EA
37858	Liquid End Cartridge	EA
37859	Liquid End Cartridge	EA
37980	HEAD, 0.5 MOLDED PVDF(DEEP COR	EA
38018	VALVE ASM, SUC 1/4" PVC	EA
38019	VALVE ASM, SUC 3/8" PVC	EA
38020	VALVE ASM, SUC 1/2" PVC	EA
38025	VALVE ASM, INJ 1/4" PVC	EA
38026	VALVE ASM, INJ 3/8" PVC	EA
38027	VALVE ASM, INJ 1/2" PVC	EA
38033	VALVE ASM, FOOT 1/2"	EA
38271	VALVE ASM, FOOT	EA
38490	WASHER, FLAT #10 SS 316	EA
38561	HEAD, 0.9 MACHINED	EA
38562	HEAD, 0.9 MACHINED PVC	EA
38568	HEAD, 0.9 ACRYLIC HV	EA
38569	HEAD, 0.9 PP HV	EA
38571	HEAD, 0.5 ACRYLIC HV	EA
38572	HEAD, 0.5 PP HV	EA
38578	HEAD, 0.5 MACHINED	EA
38579	HEAD, 0.5 MACHINED PVC	EA
38592	HEAD, 1.8 ACRYLIC HV	EA
38593	HEAD, 1.8 PP HV	EA
38595	HEAD, 1.8 ACRYLIC MACH	EA
38596	HEAD, 1.8 PVC MACHINED	EA
48167	DISK, LE ADAPTER SC1	EA
48168	DISK, LE ADAPTER SC2	EA
48169	DISK, LE ADAPTER SC3	EA
48170	DISK, LE ADAPTER SC4	EA
48186	LIQUIFRAM, SC1	EA
48187	LIQUIFRAM, SC2	EA
48188	LIQUIFRAM, SC3	EA
48189	LIQUIFRAM, SC4	EA
48214	HEAD, MACHINED, SC1 ACL	EA
48216	HEAD, MACHINED, SC1 PP	EA
48218	HEAD, MACHINED, SC2 ACL	EA
48219	HEAD, MACHINED, SC2 PVC	EA
48220	HEAD, MACHINED, SC2 PP	EA
48222	HEAD, MACHINED, SC3 ACL	EA
48224	HEAD, MACHINED, SC3 PP	EA
48226	HEAD, MACHINED, SC4 ACL	EA
48231	CORD, POWER USA 120V	EA
48313	RETAINING RING, 8MM	EA
48347	O-RING, 2-008 80D AFLAS	EA
48349	O-RING, 2-111, 80DUR AFLAS	EA
48363	HEAD, MOLDED FASTPRIME SC2	EA
48364	HEAD, MOLDED FASTPRIME SC2	EA
48366	HEAD, MOLDED FASTPRIME SC3	EA
48367	HEAD, MOLDED FASTPRIME SC3	EA
48369	HEAD, MOLDED FASTPRIME SC4	EA
48370	HEAD, MOLDED FASTPRIME SC4	EA
48414	CORDSET, 5-PIN REVERSE KEY	EA
48414	Cordset, Roytronic 5 pin	EA
48422	HEAD, AUTOPRIME, SC1 ACL	EA
48423	HEAD, AUTOPRIME, SC1 PVC	EA
48425	HEAD, AUTOPRIME, SC2 ACL	EA
48426	HEAD, AUTOPRIME, SC2 PVC	EA

Part Number	Description	UM
48428	HEAD, AUTOPRIME, SC3 ACL	EA
48429	HEAD, AUTOPRIME SC3 PVC	EA
48431	HEAD, AUTOPRIME, SC4 ACL	EA
48432	HEAD, AUTOPRIME, SC4 PVC	EA
48471	HEAD, SC1, 316 SS	EA
48472	HEAD, SC2, 316 SS	EA
48473	HEAD, SC3, 316 SS	EA
48474	HEAD, SC4, 316 SS	EA
48488	ADAPTER, ROYTRONIC ACCESSORIES	EA
48490	CONNECTOR, 5-PIN REVERSE KEY	EA
48543	CARTRIDGE VALVE, 920, 930, 940	EA
48545	CARTRIDGE VALVE, 915, 813	EA
48546	CARTRIDGE VALVE, 925, 935, 945	EA
48549	FASTPRIME CARTRIDGE VALVE, 920	EA
48551	FASTPRIME CARTRIDGE VALVE, 915	EA
48552	FASTPRIME CARTRIDGE VALVE, 925	EA
48589	O-RING, PTFE, 2-113	EA
48590	O-RING, PTFE, 2-007, WHITE	EA
48591	O-RING, PTFE, 2-111	EA
48594	CONTROL PANEL AD2	EA
48595	CONTROL PANEL AD8	EA
48596	CONTROL PANEL AD9	EA
48599	HOUSING, AD	EA
48603	COVER, CLEAR AD	EA
48617	FITTING, INJECTION VLV, PVC	EA
48618	FITTING, INJECTION VLV, PVDF	EA
48622	4FV Bleed Nut - Roytronic	EA
48646	COUPLING KNOB, 4FV	EA
48646	COUPLING KNOB, 4FV	EA
48670	FASTPRIME DISCHARGE CV	EA
48672	FASTPRIME DISCHARGE CV	EA
48676	SUCTION CHECK VALVE, 728, 738,	EA
48677	SUCTION CHECK VALVE, 812	EA
48678	SUCTION CHECK VALVE, 813	EA
48679	SUCTION CHECK VALVE	EA
48680	SUCTION CHECK VALVE, 823, 833,	EA
48681	SUCTION CHECK VALVE	EA
48682	SUCTION CHECK VALVE, 915	EA
48683	SUCTION CHECK VALVE, 919	EA
48684	SUCTION CHECK VALVE	EA
48685	SUCTION CHECK VALVE, 925, 935	EA
48686	SUCTION CHECK VALVE, 929, 939,	EA
48692	CARTRIDGE VALVE, 929, 939, 949	EA
48698	FASTPRIME CARTRIDGE VALVE, 929	EA
48699	FASTPRIME VALVE, 8X2, 9X9	EA
48700	FASTPRIME VALVE, 8X3	EA
48701	FASTPRIME VALVE, 9X5	EA
48702	LIQUID END HARDWARE, 9XX	EA
48703	LIQUID END HARDWARE, 7XX, 8XX	EA
48704	AUTOPRIME DISCHARGE CHECK	EA
48705	AUTOPRIME DISCHARGE CHECK	EA
48706	AUTOPRIME DISCHARGE CARTRIDGE	EA
48707	AUTOPRIME DISCHARGE CARTRIDGE	EA
48708	AUTOPRIME SHUTTLE VALVE	EA
48709	AUTOPRIME SHUTTLE CARTRIDGE	EA
48718	FOOT VALVE, 910, X18	EA
48719	FOOT VALVE, 919	EA
48720	FOOT VALVE, 812	EA
48721	FOOT VALVE, 920, 930, 940	EA
48722	FOOT VALVE, 929, 939, 949	EA
48723	FOOT VALVE, 822, 832, 842	EA
48724	FOOT VALVE, 813	EA
48725	FOOT VALVE, 823, 833, 843	EA
48726	FOOT VALVE, 915	EA
48727	FOOT VALVE, 925, 935, 945	EA
48728	INJECTION VALVE, 9X0, XX8	EA
48729	INJECTION VALVE, 9X5	EA
48730	INJECTION VALVE, 9X9	EA
48731	INJECTION VALVE, 8X2	EA
48732	INJECTION VALVE, 8X3	EA
48743	HEAD, AUTOPRIME, 0.5 ACL	EA
48744	HEAD, AUTOPRIME, 0.9 ACL	EA
48745	HEAD, AUTOPRIME, 1.8 ACL	EA
48748	HEAD, AUTOPRIME, 1.8 PVC	EA
48767	DISCHARGE CHECK VALVE, SS	EA
48768	SUCTION CHECK VALVE, SS	EA
48787	FITTING SGL BALL WITH O-RING	EA
48788	FITTING SGL BALL WITH O-RING	EA
48789	FITTING SGL BALL WITH O-RING	EA
48790	FITTING SGL BALL WITH O-RING	EA
48791	FITTING DBL BALL WITH O-RING	EA
48792	FITTING DBL BALL WITH O-RING	EA
48793	FITTING DBL BALL WITH O-RING	EA

Part Number	Description	UM
48794	FITTING DBL BALL WITH O-RING	EA
48795	INJECTION VLV CARTRIDGE	EA
48848	Fastprime Valve xx8, 9x0	EA
48851	CORD, POWER USA 120V	EA
48852	CORD, POWER USA 230V	EA
48873	Foot Valve, 3/8" PVC/TFE	EA
49031	Housing ASM, 120 V	EA
49035	Cordset, Roytronic 6 pin	EA
49088	VALVE ASM, SUC PVC/AFI/CER	EA
49089	VALVE ASM, SUC PVDF/AFI/CER	EA
49090	VALVE ASM, SUC PVDF/AFI/CER	EA
49092	VALVE ASM, SUC PVDF/PTFE/CER	EA
49093	VALVE ASM, SUC PVDF/AFI/PTFE	EA
49094	VALVE ASM, SUC PVDF/AFI/PTFE	EA
49097	CARTRIDGE SUB ASM, SPRING	EA
49098	VALVE ASM, DIS SPRING	EA
49099	Foot Valve, PVC/AFI/CER, 358, 450, 458	EA
49100	Foot Valve, PVC/AFI/CER, 3/468, 3/498, 460, 490	EA
49101	Foot Valve, PVDF/AFI/CER, 352	EA
49102	Foot Valve, PVDF/AFI/CER, 362, 392	EA
49103	Foot Valve, PVDF/PTFE/CER, 353	EA
49104	Foot Valve, PVDF/PTFE/CER, 363, 393	EA
49106	Foot Valve, PVDF/AFI/PTFE, 469, 499	EA
49107	Foot Valve, PP/PTFE/CER, 455	EA
49108	Foot Valve, PP/PTFE/CER, 465, 495	EA
49109	LIQUID END HARDWARE, 4XX, DXX	EA
49163	VALVE ASM, SUC	EA
49164	Foot Valve, 910A, 918A	EA
49165	Foot Valve, 920A, 928A	EA
49216	90 degree adapter	
49246	Roytronic Low Level Switch Assembly	
49249	Switch, Dual Liquid Level (Excel only)	
49253	3 Pin Connector (4 Pin standard key)	EA
49287	CORP STOP ASM, 3/4" - CA AB1953 mat'l req.	EA
49288	CORP STOP ASSY, 1" - CA AB1953 mat'l req.	EA
49290	CORP STOP ASSY, 1" - CA AB1953 mat'l req.	EA
49329	Head, machined SC2 HV Acrylic	EA
49331	Head, machined SC2 HV PP	EA
49332	Head, machined SC2 HV Ported PP	EA
49334	Head, machined SC3 HV Acrylic	
49336	Head, machined SC3 HV PP	
49337	Head, machined SC3 HV Ported PP	
49339	Head, machined SC4 HV Acrylic	
49341	Head, machined SC4 HV PP	EA
49342	Head, machined SC4 HV Ported PP	EA
50508	50 piece 1/4" ferrule kit	EA
50509	50 piece 3/8" ferrule kit	
50510	50 piece 1/2" ferrule kit	
50529	HEAD, AUTOPRIME, 3.0 ACL	
50530	HEAD, AUTOPRIME, 3.0 PVC	
50663	PULSER ASM, AD2	
50664	PULSER ASM, AD8	
50665	PULSER ASM, AD9	
54783	TUBING, UV KIT, 1/4"	
54784	TUBING, UV KIT, 3/8"	
55787	REED SWITCH TRANSMITTER W/ FLYING LEADS	
55789	REED SWITCH TRANSMITTER W/ 4 PIN CONNECT.	
55796	REED SWITCH TRANSMITTER W/ 3.5MM CONNEC.	
57958	CABLE ADAPTOR, MP-100 FOR PD7	
59235	FLOWMETER, RFP-075	EA
59236	FLOWMETER, RFP-100	EA
59237	FLOWMETER, RFP-150	EA
59238	FLOWMETER, RFP-200	EA
59239	SENSOR ASM, RFP-075, 100, 150, 200	EA
10141-500	TUBING, .500 OD X .062 VINYL, 500 FEET	EA
10142-500	TUBING, .500 OD X .062 PE, 500 FEET	EA
10342-500	TUBING, .375 OD X .062 PE, 500 FEET	EA
10469-06	TUBING VINYL, .375 OD X .062, 6 FEET	EA
10469-500	TUBING VINYL, .375 OD X .062, 500 FT	EA
10492-1	VALVE SEAT, 1/4 NPT	EA
10493-1	VALVE HOUSING, 1/4 NPT	EA
10524-3	HEAD, 3.0 ACRYLIC	EA
10681-3	HEAD, 3.0 PP HV	EA
10681-4	HEAD, 3.0 PP	EA
10786-1	COUPLING, 1/2" NPT	EA
10792-1	VALVE SEAT, .375 X 1/4	EA
10793-1	VALVE HOUSING, .375 X	EA
25636-16	TUBING PE, .250 X .062, 16 FEET	EA
25636-500	TUBING PE, .250 OD X .062, 500 FEET	EA
25651-50	TUBING VINYL, .938 OD X .15, 50 FT	EA
25906-3	HEAD, 6.0 PP HV	EA
26050-1	HEAD, 0.9 PP HV	EA
26350-1	TANK W/COVER, DRILL	EA
26893CE	EPU & SPACER ASM, "B"	EA

Part Number	Description	UM
27142-500	TUBING PE, .500 OD X .062, 500 FEET	EA
27342-500	TUBING PE, .375 OD X .062, 500 FEET	EA
27641-1	STUD ASM, 3.0 SI 4.2C	EA
28636-500	TUBING PE, .250 OD X .062, 500 FEET	EA
29033CE	CORD ASM, 115V CE	EA
31561-1	VALVE SEAT, 1/4 NPT PVDF	EA
31562-1	VALVE HOUSING, 1/4 NPT	EA
31927CE	EPU W/STROKE ADJ, "B"	EA
31929CE	EPU W/STROKE ADJ, "B"	EA
32158CE	EPU ASM, 120V C7 C9 CE	EA
32534CE	EPU & SPACER ASM, "C"	EA
32536CE	EPU & SPACER ASM, "C"	EA
35895CE	CONTROL PANEL ASM, B92/B93/B94 115V	EA
35949CE	HOUSING ASM, B9X1/C9X1	EA
35956CE	HOUSING ASM, B9X6/C9X6	EA
35960CE	CONTROL PANEL ASM, C901/C911 115V	EA
35962CE	CONTROL PANEL ASM, C921 115 V	EA
35964CE	CONTROL PANEL ASM, C931 115V	EA
35966CE	CONTROL PANEL ASM, C941 115V	EA
38568-1	HEAD, 0.9 ACRYLIC HV	EA
38569-1	HEAD, 0.9 PP HV	EA
38571-1	HEAD, 0.5 ACRYLIC HV	EA
38572-1	HEAD, 0.5 PP HV	EA
38592-1	HEAD, 1.8 ACRYLIC HV	EA
38593-1	HEAD, 1.8 PP HV	EA
50503-15	EXTENSION CABLE, 15 M / 49.2FT	EA
50503-6	EXTENSION CABLE, 6 M / 19.7FT	EA



Section II

Motor Driven Metering Pumps and Parts

Excel XR® Series



Manual

Communications

Enhanced

XRD

XRE

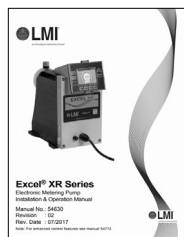
	Output Code	Max Output		Max Pressure	
		GPH	LPH	PSI	Bar
XRD	XRDx2	5.6	21.2	175	12
	XRDx3	14.0	53.0	75	5
	XRDx4	18.0	68.1	50	3.5
XRE	XREx2	16.0	60.6	150	10.3
	XREx3	32.0	121.1	100	6.9
	XREx4	53.0	200.6	60	4.1

For support:



What's in the Box

Excel XR units include:



Manual



Foot Valve



Tubing (0 or 2 rolls) & Tube Connection Hardware



Injection Check Valve

Enhanced Model:



4 Pin Cordset

Communications Model:



5 Pin Cordset

Note: Depending on the configuration of the LE, some of the items may not be included in the box.

Tel: +1 (866) 433-6682

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<https://www.novatech-usa.com>

METERING PUMP SERIES

General Description

The EXCEL[®] XR metering pump is a mechanically actuated diaphragm pump driven by advanced variable speed technology to provide the most accurate and reliable performance in the industry. This proven technology is easy to maintain and will provide years of maximum up-time service. The EXCEL XR pump fits seamlessly into the process control requirements of every application. All models come standard with a color backlit display, multi-language options and remote operation options.

General Performance Specifications

- Flow rate up to 18.0 GPH (68.1 LPH)
 - Pressure up to 175 psi (12.0 bar)
 - Steady state accuracy +/- 1%
 - Turndown 1000:1 (200:1 PTFE Seat, 500:1 FPM Seat)
 - Power Required - 42 W rated (ETL)
- ** Flow rates up to 53.0 GPH (200.6 LPH) to be released with XRE in 2020**

Weights and Shipping Dimensions

Weight (approximate)	lbs	kg
Plastic Head (unboxed)	14	6.35
SS Head (unboxed)	24.5	11.1
Domestic Box	22	10

Domestic Box Dimensions	
Inches	Metric
16.5" x 18" x 13.5"	420 x 457 x 343

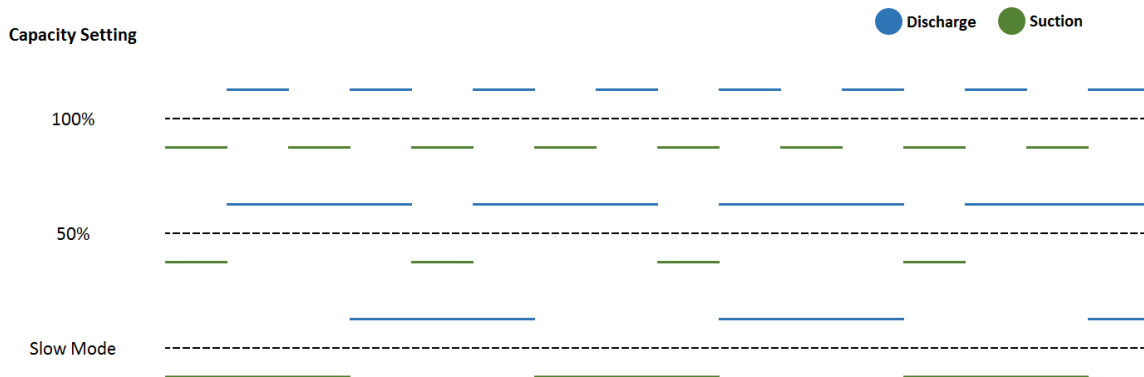
Temperature & Environmental Ratings

Unit	Ambient	Process Fluid	Storage
Fahrenheit	14°F to +104°F	14°F to +104°F	-40°F to +158°F
Celsius	-10°C to +40°C	-10°C to +40°C	-40°C to +70°C

Operating humidity range:	0-95% RH (Non-condensing)
Ingress protection:	IP65 / NEMA 4X
Operation environment:	Indoor

Drive Specifications

The drive is powered by an electronically controlled variable speed stepper motor which provides accurate dosing output of the fixed stroke length drive.



Capacity Adjustment

Variable speed stepper motor with controlled stroke profile. The profile features constant speed suction, and the discharge stroke is used to control pump capacity. This takes full advantage of the characteristics of a positive displacement pump, in that once the fluid is within the pump head, discharging it is highly controllable and predictable.

The profile also has a configurable feature allowing the suction stroke to be extended to better handle viscous fluids, or fluids with high specific gravity. The chart below indicates how the flexible stroke profile functions.

Overpressure Protection

An external safety relief valve is required for safe installation. The pump includes motor stall detection in the event of motor stall, but is not sufficient as the only means of overpressure protection.

EXCEL® XR SPECIFICATIONS

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Lubrication System

Pump is factory lubricated for life.

Pump Housing Material

Polyphenylene ether and Polystyrene blend - 20% glass reinforced

Liquid End Specifications

Mechanically actuated diaphragm with suction and discharge ball check valves.

Materials

Refer to Pump Selection Tables for most materials.

Spring Materials:

In High Viscosity Liquid ends - Spring material is 316ss

Injection Valve Spring Material - Hastelloy C 276

Performance Specifications

Turndown Ratio:	1000:1 (200:1 PTFE Seat, 500:1 FKM Seat)
Steady State Accuracy:	± 1.0%
Repetitive Accuracy:	± 3.0%
Linearity:	± 3.0%
Duty Rating:	Continuous

Suction Lift and Pressure

Drive	Max. Suction Lift [ft]	Max. Suction Lift [m]	Max. Suction Inlet Pressure [psi]	Max. Suction Inlet Pressure [bar]
XRDx2	13.1	4	30	2
XRDx3	13.1	4	30	2
XRDx4	6.5	2	30	2
XREx2	13.1	4	30	2
XREx3	6.5	2	30	2
XREx4	6.5	2	30	2

Testing

Standard Production Test: Every pump is tested to assure the pump meets capacity and pressure expectations and functions as expected.

Certifications

NSF 61

CE Compliant

ETL listed by Intertek to UL 61010-1 issued 2012/5/11 edition 3, and CSA C22.2#61010-1 issued 2012/5/11 edition 3

Dimension Drawing and Documentation

Description	No.
Customer Data Sheet	59261
Brochure	59260
Customer Dimensional Drawing	59017
Installation, Operation and Maintenance	54630
Enhanced Supplement	54772
Modbus Supplement	55312
Profibus Supplement	55313
Instruction Supplement	59288
Quick Start Guide	54941

EXCEL® XR SPECIFICATIONS

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	Manual	Enhanced	Communications
User Interface			
Four Color Backlit graphical display	●	●	●
Flow rate or volume display (GPH, L/hr)	●	●	●
Capacity setting display	●	●	●
Start/Stop button	●	●	●
Mode/Select button	●	●	●
Full capacity (100%) button	●	●	●
Prime button	●	●	●
Active operation mode indication on display	●	●	●
Active alarm indication on display	●	●	●
Calibration status indication on display	●	●	●
Control Modes			
Manual (Internal)	●	●	●
Analog [0/4-20 mA] (External)	●	●	●
Pulse [volume/pulse] (External)	●	●	●
Batch (External)	●	●	●
Cycle Timer (Internal)	●	●	●
Timed event (Internal)	●	●	●
Control Input			
Programmable digital contacts	1	4	4
User 1**	●	●	●
User 2**	●	●	●
User 3**	●	●	●
Single level float switch	●	●	●
Dual low level float switch	●	●	●
Pulse control	●	●	●
Remote start/stop	●	●	●
Remote internal/external mode selection	●	●	●
Programmable analog inputs	0	2	2
Pacing	●	●	●
Tank level	●	●	●
Control Protocol			
Modbus RTU*	●	●	●
Profibus DP*	●	●	●

* Must order pump configured for your control protocol

	Manual	Enhanced	Communications
Control Output			
Programmable digital contacts	0	2	2
Pump running	●	●	●
Pump standby/stopped [not pumping but ready]	●	●	●
Alarm status	●	●	●
User alarm status	●	●	●
Internal/External mode indication	●	●	●
Pump stopped	●	●	●
Stroke pulse	●	●	●
Timed event running	●	●	●
Programmable analog output	0	1	1
Flow rate [4-20 mA correlates to 0 - max capacity]	●	●	●
Mirror analog input 1	●	●	●
Mirror analog input 2**	●	●	●
Power supply for remote device [24V] (eg. Flow sensor)	0	1	1
Operation functions			
Capacity control by motor speed variation	●	●	●
Variable stroke profile (variable discharge speed/constant suction speed)	●	●	●
Slow suction mode for viscous or degassing media	●	●	●
Calibration function (single point)	●	●	●
Prime feature (max capacity) button, timer	●	●	●
Totalizer (strokes, volume, hours motor operation, number of power cycles)	●	●	●
Keypad lock (software driven with password)	●	●	●
Clock feature (date and 12 hour time)	●	●	●
Diaphragm replacement mode (sets stroke to extended position)	●	●	●
Display firmware revision	●	●	●
Load factory defaults	●	●	●
Battery to maintain date and time settings when main power is removed	●	●	●
EEPROM nonvolatile memory (configurations saved/powers up in last used mode)	●	●	●
Internal/External input control mode configuration	●	●	●
Alarm output mask configuration (configure which events trigger alarm output relay)	●	●	●
Analog input response curve customization	●	●	●
Input pulse width setting	●	●	●
Start/Stop via remote signal	●	●	●
Pump switch off on tank empty	●	●	●
Modbus RTU / Profibus DP protocol	●	●	●
StayPrime Degassing Technology**	●	●	●
Alarm Log**	●	●	●

** Features coming to software version 2.0 alongside launch of XRE in 2020

EXCEL® XR PUMP SELECTION

63

XRD - OUTPUT CODE 2

151 SPM Max.

Size Code 4

5.6 GPH (21.2 LPH); 175 psi (12 bar)

Note: High Viscosity option and PE tube limited to 150 psi (10.3 bar)

XRDx2										
Drive End										
Control		Description			Cordset Included		Part Number			
XRD12		Manual Control			-		-		See Note	
XRD92		Enhanced Control			4 Pin Cordset		54711			
XRDP2		Enhanced Control with ProfiBus			4 Pin, 5 Pin Cordset		54711, 55199			
XRDM2		Enhanced Control with ModBus			4 Pin, 5 Pin Cordset		54711, 55199			
	Power Code		Voltage			Plug				
	1		Universal			110 - 120 VAC 1 Phase US Plug				
	2		Universal			220 - 240 VAC 1 Phase US Plug				
	3		Universal			220 - 240 VAC 1 Phase DIN Plug				
	5		Universal			220 - 240 VAC 1 Phase UK Plug				
	6		Universal			220 - 240 VAC 1 Phase Australia / New Zealand Plug				
		Liquid End	Head	Seat	Balls	Check Valve Body	Max Turndown Ratio	RPM Kit Standard DN15 Conn.		
		Standard Plastic								
		A44AC	PP	TFE/P	Ceramic	PVDF	1000:1	RPM54771	RPM54772	
		A44A1	PP	TFE/P	316L	PVDF	1000:1	RPM54778	RPM54779	
		A44AT	PP	TFE/P	PTFE	PVDF	1000:1	RPM56409	RPM56410	
		A74TC	PVDF	PTFE	Ceramic	PVDF	200:1	RPM54773	RPM54774	
		A74AT	PVDF	TFE/P	PTFE	PVDF	1000:1	RPM56409	RPM56410	
		Standard Metallic								
		A1411	316L	316L	316L	316L	1000:1	see below		
		Slurry								
		S1414	316L	316L	440C	316L	1000:1	RPM54776		
		High Viscosity								
		V44T1	PP	PTFE	316L	PP	1000:1	RPM54777		
			Standard Plastic	Diaphragm		O-Rings	Fittings	Connections	Tubing Kit	RPM Kit
			A7T1	PTFE/PVDF		TFE/P	PVDF	Imperial Tube	1	-
			A7PN	PTFE/PVDF		TFE/P	PVDF	1/2" BSP	-	-
			A7M2	PTFE/PVDF		TFE/P	PVDF	Metric Tube	2	-
			A2FN	PTFE/PVDF		TFE/P	PVDF/PVC	DN15 Female	-	see above
			A7DN	PVDF heads only	PTFE/PVDF	TFE/P	PVDF	DN15 Male	-	see above
			Standard Metallic							
			A1PN	PTFE/316L		TFE/P	316L	1/2" FNPT	-	RPM56407
			V1PN	PTFE/316L		FKM	316L	1/2" FNPT	-	RPM54775
			Slurry							
			V1PN	PTFE/316L		FKM	316L	1/2" FNPT	-	-
			High Viscosity							
			N4T3	PTFE/PVDF		-	PP	Imperial Tube	3	-
XRD12	1		A44AC	A7T1						

RPM Kit	RPM Kit	Contents
RPM54771	RPM54777	- Primary Diaphragm - Secondary Diaphragm housing seal - Required O-rings - Replacable Check valves or components
RPM54772	RPM54778	
RPM54773	RPM54779	
RPM54774	RPM56407	
RPM54775	RPM56409	
RPM54776	RPM56410	

Note: Add 6 pin cordset (49035) for digital input and analog output and 5 pin (48414) for digital output.

For Tubing Kit contents, refer to Tubing Kits Table.
For accessory kits, see Accessories section

EXCEL® XR PUMP SELECTION

64

XRD - OUTPUT CODE 3

162 SPM Max.

Size Code 4

14.0 GPH (53.0 LPH); 75 psi (5 bar)

XRDx3										
Drive End										
Control	Description			Cordset Included		Part Number				
XRD13	Manual Control			-		-		See Note		
XRD93	Enhanced Control			4 Pin Cordset		54711				
XRDP3	Enhanced Control with ProfiBus			4 Pin, 5 Pin Cordset		54711, 55199				
XRDM3	Enhanced Control with ModBus			4 Pin, 5 Pin Cordset		54711, 55199				
	Power Code		Voltage		Plug					
	1		Universal		110 - 120 VAC 1 Phase US Plug					
	2		Universal		220 - 240 VAC 1 Phase US Plug					
	3		Universal		220 - 240 VAC 1 Phase DIN Plug					
	5		Universal		220 - 240 VAC 1 Phase UK Plug					
	6		Universal		220 - 240 VAC 1 Phase Australia / New Zealand Plug					
		Liquid End	Head	Seat	Balls	Check Valve Body	Max Turndown Ratio	RPM Kit		
								Standard	DN15 Conn.	
		Standard Plastic								
		A44AC	PP	TFE/P	Ceramic	PVDF	1000:1	RPM54771	RPM54772	
		A44A1	PP	TFE/P	316L	PVDF	1000:1	RPM54778	RPM54779	
		A44AT	PP	TFE/P	PTFE	PVDF	1000:1	RPM56409	RPM56410	
		A74TC	PVDF	PTFE	Ceramic	PVDF	200:1	RPM54773	RPM54774	
		A74AT	PVDF	TFE/P	PTFE	PVDF	1000:1	RPM56409	RPM56410	
		Standard Metallic								
		A1411	316L	316L	316L	316L	1000:1	see below		
		Slurry								
		S1414	316L	316L	440C	316L	1000:1	RPM54776		
		High Viscosity								
		V44T1	PP	PTFE	316L	PP	1000:1	RPM54777		
			Standard Plastic	Diaphragm		O-Rings	Fittings	Connections	Tubing Kit	RPM Kit
			A7T1	PTFE/PVDF		TFE/P	PVDF	Imperial Tube	1	-
			A7PN	PTFE/PVDF		TFE/P	PVDF	1/2" BSP	-	-
			A7M2	PTFE/PVDF		TFE/P	PVDF	Metric Tube	2	-
			A2FN	PTFE/PVDF		TFE/P	PVDF/PVC	DN15 Female	-	see above
			A7DN PVDF heads only	PTFE/PVDF		TFE/P	PVDF	DN15 Male	-	see above
			Standard Metallic							
			A1PN	PTFE/316L		TFE/P	316L	1/2" FNPT	-	RPM56407
			V1PN	PTFE/316L		FKM	316L	1/2" FNPT	-	RPM54775
			Slurry							
	V1PN		PTFE/316L		FKM	316L	1/2" FNPT	-	-	
	High Viscosity									
	N4T3		PTFE/PVDF		-	PP	Imperial Tube	3	-	
XRD13	1		A44AC	A7T1						

RPM Kit	RPM Kit	Contents
RPM54771	RPM54777	- Primary Diaphragm - Secondary Diaphragm housing seal - Required O-rings - Replacable Check valves or components
RPM54772	RPM54778	
RPM54773	RPM54779	
RPM54774	RPM56407	
RPM54775	RPM56409	
RPM54776	RPM56410	

Note: Add 6 pin cordset (49035) for digital input and analog output and 5 pin (48414) for digital output.

For Tubing Kit contents, refer to Tubing Kits Table.
For accessory kits, see Accessories section

EXCEL® XR PUMP SELECTION

65

XRD - OUTPUT CODE 4

144 SPM Max.

Size Code 6

18.0 GPH (68.1 LPH): 50 psi (3.5 bar)

XRDx4											
Drive End											
Control		Description			Cordset Included		Part Number				
XRD14		Manual Control			-		-		See Note		
XRD94		Enhanced Control			4 Pin Cordset		54711				
XRDP4		Enhanced Control with ProfiBus			4 Pin, 5 Pin Cordset		54711, 55199				
XRDM4		Enhanced Control with ModBus			4 Pin, 5 Pin Cordset		54711, 55199				
	Power Code		Voltage			Plug					
	1		Universal			110 - 120 VAC 1 Phase US Plug					
	2		Universal			220 - 240 VAC 1 Phase US Plug					
	3		Universal			220 - 240 VAC 1 Phase DIN Plug					
	5		Universal			220 - 240 VAC 1 Phase UK Plug					
	6		Universal			220 - 240 VAC 1 Phase Australia / New Zealand Plug					
		Liquid End		Head	Seat	Balls	Check Valve Body	Diaphragm	Max Turndown Ratio	RPM Kit	
		Standard PP									
		A46VC		PP	FKM	Ceramic	PP	PTFE	500:1	RPM54780	
		A46V1		PP	FKM	316L	PP	PTFE	500:1	RPM54784	
		A46AC		PP	TFE/P	Ceramic	PP	PTFE	500:1	RPM56405	
		A46A1		PP	TFE/P	316L	PP	PTFE	500:1	RPM56406	
		Standard PVDF									
		A76VC		PVDF	FKM	Ceramic	PVDF	PTFE	500:1	RPM54780	
		A76AT		PVDF	TFE/P	PTFE	PVDF	PTFE	500:1	RPM56411	
		A76AC		PVDF	TFE/P	Ceramic	PVDF	PTFE	500:1	RPM56405	
		Standard Metallic									
		A1611		316L	316L	316L	316L	PTFE	1000:1	see below	
		Slurry									
		S1614		316L	316L	440C	316L	PTFE	1000:1	RPM54783	
		High Viscosity									
		V46T1		PP	PTFE	316L	PP	PTFE	1000:1	RPM54782	
			Standard PP		O-Rings		Fittings	Connections	Tubing Kit		RPM Kit
			N4PN		-		PP	1/2" NPT	-		-
			N4TN		-		PP	Imperial Tube	-		-
			N2FN		-		PP/PVC	DN15 Female	-		-
			Standard PVDF								
			N2FN		-		PVDF/PVC	DN15 Female	-		-
			N7PN		-		PVDF	1/2" NPT	-		-
			N7TN		-		PVDF	Imperial Tube	-		-
			Standard Metallic								
			A1PN		TFE/P		316L	1/2" FNPT	-		RPM56408
			V1PN		FKM		316L	1/2" FNPT	-		RPM54781
			Slurry								
			V1PN		FKM		316L	1/2" FNPT	-		-
			High Viscosity								
N4P4			-		PP	1/2" NPT	4		-		
N4T4		-		PP	Imperial Tube	4		-			
XRD14		1	A46VC	N4PN							

RPM Kit	RPM Kit	Contents
RPM54780	RPM56405	• Primary Diaphragm
RPM54781	RPM56406	• Secondary Diaphragm
RPM54782	RPM56408	housing seal
RPM54783	RPM56411	• Required O-rings
RPM54784		• Replacable Check valves or components

Note: Add 6 pin cordset (49035) for digital input and analog output and 5 pin (48414) for digital output.

For Tubing Kit contents, refer to Tubing Kits Table.
For accessory kits, see Accessories section

EXCEL® XR PUMP SELECTION

66

XRE - OUTPUT CODE 2

198 SPM Max.

Size Code 4

16 GPH (60.6 LPH); 150 psi (10.3 bar)

XREx2												
Drive End	Note: Cordsets from the accessories table may be required for the customer to connect to desired input/output.											
Control	Description			Cordset Included			Part Number					
XRE12	Manual Control			-			- See Note					
XRE92	Enhanced Control			4 Pin Cordset			54711					
XREP2	Enhanced Control with ProfiBus			4 Pin, 5 Pin Cordset			54711, 55199					
XREM2	Enhanced Control with ModBus			4 Pin, 5 Pin Cordset			54711, 55199					
	Power Code		Voltage		Plug							
	1		Universal		110 - 120 VAC 1 Phase US Plug							
	2		Universal		220 - 240 VAC 1 Phase US Plug							
	3		Universal		220 - 240 VAC 1 Phase DIN Plug							
	5		Universal		220 - 240 VAC 1 Phase UK Plug							
	6		Universal		220 - 240 VAC 1 Phase Australia / New Zealand Plug							
		Liquid End	Head	Seat	Balls	Check Valve Body	Max Turndown Ratio	RPM Kit				
								Standard	DN15 Conn.			
		Standard Plastic										
		A44A1	PP	TFE/P	316L	PVDF	1000:1	RPM54778	RPM54779			
		A44AC	PP	TFE/P	Ceramic	PVDF	1000:1	RPM54771	RPM54772			
		A44AT	PP	TFE/P	PTFE	PVDF	1000:1	RPM56409	RPM56410			
		A74AT	PVDF	TFE/P	PTFE	PVDF	1000:1	RPM56409	RPM56410			
		A74TC	PVDF	PTFE	Ceramic	PVDF	200:1	RPM54773	RPM54774			
		Standard Metallic										
		A1411	316L	316L	316L	316L	1000:1	see below				
		Slurry										
		S1414	316L	316L	440C	316L	1000:1	see below				
		High Viscosity										
		V44T1	PP	PTFE	316L	PP	1000:1	see below				
				Standard Plastic		Diaphragm	O-Rings	Fittings	Connections	Tubing Kit	RPM Kit	
				A2FN		PTFE/PVDF	TFE/P	PVDF/PVC	DN15 Female	-	-	
				A7M2		PTFE/PVDF	TFE/P	PVDF	Metric Tube	2	-	
				A7PN		PTFE/PVDF	TFE/P	PVDF	1/2" NPT/BSP	-	-	
				A7T1		PTFE/PVDF	TFE/P	PVDF	Imperial Tube	1	-	
				A7DN (PVDF heads only)		PTFE/PVDF	TFE/P	PVDF	DN15 Male	-	-	
				Standard Metallic								
				A1PN		PTFE/316L	TFE/P	316L	1/2" FNPT	-	RPM56407	
				V1PN		PTFE/316L	FKM	316L	1/2" FNPT	-	RPM54775	
				Slurry								
	V1PN			PTFE/316L	FKM	316L	1/2" FNPT	-	RPM54776			
	High Viscosity											
N4T3		PTFE/PVDF		-	PP	Imperial Tube	3	RPM54777				
XRE12	1	A44AC	A7T1									

RPM Kit	RPM Kit	Contents
RPM54771	RPM54777	- Primary Diaphragm - Secondary Diaphragm housing seal - Required O-rings - Replacable Check valves or components
RPM54772	RPM54778	
RPM54773	RPM54779	
RPM54774	RPM56407	
RPM54775	RPM56409	
RPM54776	RPM56410	

Note: Add 6 pin cordset (49035) for digital input and analog output and 5 pin (48414) for digital output.

For Tubing Kit contents, refer to Tubing Kits Table.
For accessory kits, see Accessories section

EXCEL® XR PUMP SELECTION

67

XRE - OUTPUT CODE 3

200 SPM Max.

Size Code 6

28 GPH (106 LPH); 100 psi (6.9 bar) - 32 GPH (121 LPH); 50 psi (3.5 bar)

XREx3									
Drive End	Note: Cordsets from the accessories table may be required for the customer to connect to desired input/output.								
Control	Description	Cordset Included			Part Number				
XRE13	Manual Control	-			-	See Note			
XRE93	Enhanced Control	4 Pin Cordset			54711				
XREP3	Enhanced Control with ProfiBus	4 Pin, 5 Pin Cordset			54711, 55199				
XREM3	Enhanced Control with ModBus	4 Pin, 5 Pin Cordset			54711, 55199				
	Power Code	Voltage	Plug						
	1	Universal	110 - 120 VAC 1 Phase US Plug						
	2	Universal	220 - 240 VAC 1 Phase US Plug						
	3	Universal	220 - 240 VAC 1 Phase DIN Plug						
	5	Universal	220 - 240 VAC 1 Phase UK Plug						
	6	Universal	220 - 240 VAC 1 Phase Australia / New Zealand Plug						
		Liquid End	Head	Seat	Balls	Check Valve Body	Max Turndown Ratio	RPM Kit	
		Standard PP							
		A46A1	PP	TFE/P	316L	PP	500:1	RPM56406	
		A46AC	PP	TFE/P	Ceramic	PP	500:1	RPM56405	
		A46V1	PP	FKM	316L	PP	500:1	RPM54784	
		A46VC	PP	FKM	Ceramic	PP	500:1	RPM54780	
		Standard PVDF							
		A76AC	PVDF	TFE/P	Ceramic	PVDF	500:1	RPM56405	
		A76AT	PVDF	TFE/P	PTFE	PVDF	500:1	RPM56411	
		A76VC	PVDF	FKM	Ceramic	PVDF	500:1	RPM54780	
		Standard Metallic							
		A1611	316L	316L	316L	316L	1000:1	see below	
		Slurry							
		S1614	316L	316L	440C	316L	1000:1	RPM54783	
		High Viscosity							
		V46T1	PP	PTFE	316L	PP	1000:1	RPM54782	
			Standard PP	Diaphragm	O-Rings	Fittings	Connections	Tubing Kit	RPM Kit
			N4PN	PTFE	-	PP	1/2" MNPT	-	-
			N2FN	PTFE	-	PP/PVC	DN15 Female	-	-
			Standard PVDF						
			N2FN	PTFE	-	PP/PVC	DN15 Female	-	-
			N7PN	PTFE	-	PVDF	1/2" MNPT	-	-
			Standard Metallic						
			A1PN	PTFE/316L	TFE/P	316L	1/2" FNPT	-	RPM56408
			V1PN	PTFE/316L	FKM	316L	1/2" FNPT	-	RPM54781
			Slurry						
			V1PN	PTFE/316L	FKM	316L	1/2" FNPT	-	-
		High Viscosity							
		N4P4	PTFE/PVDF	-	PP	1/2" MNPT	4	-	
XRE13	1	A46VC	N4PN						

RPM Kit	RPM Kit	Contents
RPM54780	RPM56405	- Primary Diaphragm - Secondary Diaphragm housing seal
RPM54781	RPM56406	
RPM54782	RPM56408	- Required O-rings - Replacable Check valves or components
RPM54783	RPM56411	
RPM54784		

Note: Add 6 pin cordset (49035) for digital input and analog output and 5 pin (48414) for digital output.

For Tubing Kit contents, refer to Tubing Kits Table.
For accessory kits, see Accessories section

EXCEL® XR PUMP SELECTION

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XRE - OUTPUT CODE 4

184 SPM Max.

Size Code 6

53 GPH (200.6 LPH); 60 psi (4.1 bar)

XREx4							
Drive End	Note: Cordsets from the accessories table may be required for the customer to connect to desired input/output.						
Control	Description	Cordset Included		Part Number			
XRE14	Manual Control	-		-			
XRE94	Enhanced Control	4 Pin Cordset		54711			
XREP4	Enhanced Control with ProfiBus	4 Pin, 5 Pin Cordset		54711, 55199			
XREM4	Enhanced Control with ModBus	4 Pin, 5 Pin Cordset		54711, 55199			
	Power Code	Voltage		Plug			
	1	Universal		110 - 120 VAC 1 Phase US Plug			
	2	Universal		220 - 240 VAC 1 Phase US Plug			
	3	Universal		220 - 240 VAC 1 Phase DIN Plug			
	5	Universal		220 - 240 VAC 1 Phase UK Plug			
	6	Universal		220 - 240 VAC 1 Phase Australia / New Zealand Plug			
	Liquid End	Head	Seat	Balls	Check Valve Body	Max Turndown Ratio	RPM Kit
	Standard PP						
	A46A1	PP	TFE/P	316L	PVDF	500:1	RPM56406
	A46AC	PP	TFE/P	Ceramic	PVDF	500:1	RPM56405
	A46V1	PP	FKM	316L	PVDF	500:1	RPM54784
	A46VC	PP	FKM	Ceramic	PVDF	500:1	RPM54780
	Standard PVDF						
	A76AC	PVDF	TFE/P	Ceramic	PVDF	500:1	RPM56405
	A76AT	PVDF	TFE/P	PTFE	PVDF	500:1	RPM56411
	A76VC	PVDF	FKM	Ceramic	PVDF	500:1	RPM54780
	Standard Metallic						
	A1611	316L	316L	316L	316L	1000:1	see below
	Slurry						
	S1614	316L	316L	440C	316L	1000:1	RPM54783
	High Viscosity						
	V46T1	PP	PTFE	316L	PP	1000:1	RPM54782
	Standard PP		Diaphragm	O-Rings	Fittings	Connections	Tubing Kit RPM Kit
	N7NN		PTFE	-	PVDF	3/4" MNPT	- -
	N2GN		PTFE	-	PVDF/PVC	DN20 Female	- -
	Standard PVDF						
	N7NN		PTFE	-	PVDF	3/4" MNPT	- -
	N2GN		PTFE	-	PVDF/PVC	DN20 Female	- -
	Standard Metallic						
	A1NN		PTFE	TFE/P	316L	3/4" FNPT	- RPM56408
	V1NN		PTFE	FKM	316L	3/4" FNPT	- RPM54781
	Slurry						
	V1NN		PTFE	FKM	316L	3/4" FNPT	- -
	High Viscosity						
	N4N5		PTFE	-	PP	3/4" MNPT	5 -
XRE14	1	A46VC	N7NN				

RPM Kit	RPM Kit	Contents
RPM54780	RPM56405	• Primary Diaphragm
RPM54781	RPM56406	• Secondary Diaphragm
RPM54782	RPM56408	housing seal
RPM54783	RPM56411	• Required O-rings
RPM54784		• Replacable Check valves or components

Note: Add 6 pin cordset (49035) for digital input and analog output and 5 pin (48414) for digital output.

For Tubing Kit contents, refer to Tubing Kits Table.
For accessory kits, see Accessories section

EXCEL® XR PUMP ACCESSORIES

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Tubing Kits (included in select pump configurations)

Tubing Kit 1	Tubing Kit 2	Tubing Kit 3	Tubing Kit 4	Tubing Kit 5
• Injection Valve • Foot Valve • 1 Weight (Suction Tubing) • 16' PE Tube 3/8" • 20' Reinforced PVC Hose 1/4" x 1/2"	• Injection Valve • Foot Valve • 1 Weight (Suction Tubing) • Metric Ferrules 6x12mm • 6m Reinforced PVC Hose 6x12mm	• Injection Valve • 2m Reinforced PVC hose 15x23mm (Suction) • 3m PE Tube 1/2" (Discharge) • 1 Suction hose fitting (1/2" FNPT X 15x23 hose) & 2 hose clamps	• 2m Reinforced PVC hose 15x23mm (Suction) • 1 suction hose fitting (1/2" FNPT X 15x23 hose) & 2 hose clamps	• 6.5ft Reinforced PVC hose 0.75" x 1.031" (Suction) • 1 Suction hose fitting (3/4" MNPT x 0.75" x 1.031" hose) & 2 hose clamps

ACCESSORY KITS

OUTPUT CODE XRDx2, XRDx3, XREx2

Imperial Connections

Part No.	Description
PP Head, 316 SS Balls	
58982	Injection Valve, PTFE
58987	Foot Valve, Mixed
59008	Connection Kit, 0.375 and 0.25x0.5
Tubing Kit, includes:	
10342-10	3/8" TUBE X 10 FT
54342-20	1/4" x 1/2" HOSE x 20 FT
PP Head, Ceramic Balls	
58983	Injection Valve, Mixed
58985	Foot Valve, Aflas
59008	Connection Kit, 0.375 and 0.25x0.5
Tubing Kit, includes:	
10342-10	3/8" TUBE X 10 FT
54342-20	1/4" x 1/2" HOSE x 20 FT
PVDF Head, Ceramic Balls	
58983	Injection Valve, Mixed
58986	Foot Valve, PTFE
59008	Connection Kit, 0.375 and 0.25x0.5
Tubing Kit, includes:	
10342-10	3/8" TUBE X 10 FT
54342-20	1/4" x 1/2" HOSE x 20 FT

Metric Connections

Part No.	Description
PP Head, 316 SS Balls	
58982	Injection Valve, PTFE
58987	Foot Valve, Mixed
59009	Connection Kit, 6x12
Tubing Kit, includes:	
36181-6M	8mm TUBE X 6m
70121-6M	6x12mm HOSE X 6m
PP Head, Ceramic Balls	
58983	Injection Valve, Mixed
58985	Foot Valve, Aflas
59009	Connection Kit, 6x12
Tubing Kit, includes:	
36181-6M	8mm TUBE X 6m
70121-6M	6x12mm HOSE X 6m
PVDF Head, Ceramic Balls	
58983	Injection Valve, Mixed
58986	Foot Valve, PTFE
59009	Connection Kit, 6x12
Tubing Kit, includes:	
36181-6M	8mm TUBE X 6m
70121-6M	6x12mm HOSE X 6m
High Viscosity	
58984	Injection Valve, HV
59010	Connection Kit, Hose Clamp
59013	Tubing Kit, HV

OUTPUT CODE XRDx4, XREx3 (NPT Connections only)

Tubing Connections

Part No.	Description
PP Head	
26758	Injec. Valve, 0.5" Tube, PP, PTFE, Cer
25154	Foot Valve, 0.5" Tube, PP, PTFE, Cer
77384	Connection Kit, 0.5" Tubing
PVDF Head	
33481	Injec. Valve, 0.5" Tube, PVDF, PTFE, Cer
33480	Foot Valve, 0.5" Tube, PVDF, PTFE, Cer
77384	Connection Kit, 0.5" Tubing

NPT Connections

Part No.	Description
PP Head	
26710	Injection Valve, NPT, PP, PTFE, Cer
26015	Foot Valve, NPT, PP, PTFE, Cer
PVDF Head	
38270	Injection Valve, NPT, PVDF, PTFE, Cer
38271	Foot Valve, NPT, PVDF, PTFE, Cer
High Viscosity	
56912	Injec. Valve, 0.5" MNPT, PVDF, PTFE, Cer

OUTPUT CODE XREx4

Part No.	Description
PP Head	
56909	Injection Valve, 0.75" MNPT, PP, PTFE, Cer
56914	Foot Valve, 0.75" MNPT, PP, PTFE, Cer
PVDF Head	
56910	Injec. Valve, 0.75" MNPT, PVDF, PTFE, Cer
56915	Foot Valve, 0.75" MNPT, PVDF, PTFE, Cer
High Viscosity	
56911	Injec. Valve, 0.75" MNPT, PVDF, PTFE, Cer

ACCESSORIES

Tubing Connection Kits (One kit needed per tube end)

Kit No.	Description
54714	TUBING CONNECTION KIT, 3/8" TUBE
54715	TUBING CONNECTION KIT, 1/4"x1/2" HOSE
54716	TUBING CONNECTION KIT, 8mm TUBE
54717	TUBING CONNECTION KIT, 6x12mm HOSE
54718	TUBING CONNECTION KIT, 1/2" TUBE
48378	COUPLING NUT
10411	COUPLING NUT, 1/2" TUBE

Tubing

Part No.	Description
10342-10	3/8" TUBE X 10 FT
10142-10	1/2" TUBE X 10 FT
54342-20	1/4"x1/2" HOSE X 20 FT
36181-6M	8mm TUBE X 6m
70121-6M	6x12mm HOSE X 6m

Bulk Kit of 20 Ferrules Each Kit

Kit No.	Description
54800	BULK FERRULE KIT, 3/8" TUBE
54801	BULK FERRULE KIT, 1/4"x1/2" HOSE
54802	BULK FERRULE KIT, 8mm TUBE
54803	BULK FERRULE KIT, 6x12mm HOSE

Input/Output Cordsets

Part No.	Description	Application Notes
48414	CORDSET, 5 PIN, 2 M / 6.6 FT	(J2) Digital output
49035	CORDSET, 6 PIN, 2 M / 6.6 FT	(J1 & J4) Digital input & Analog output
54711	CORDSET, 4 PIN, 2 M / 6.6 FT	(J3) Analog input
55199	CORDSET, 5 PIN, 2 M / 6.6 FT	(C) ProfiBus/ModBus Communicaton

Extension Cable Assemblies - 5 Pin

Part No.	Description
50503-6	Extension Cable, 6 M / 19.7 Ft
50503-15	Extension Cable, 15 M / 49.2 Ft

Extension Cable Assemblies - 6 Pin

Part No.	Description
50684-6	Extension Cable, 6 M / 19.7 Ft
50684-30	Extension Cable, 30 M / 98.4 Ft

Parts by Number

Part Number	Description	Part Number	Description
10138	BALL	54804	BULK FERRULE KIT, 1/2" TUBE
10228	SEAT	58994	ASM, CHECK VALVE CARTRIDGE, TEFLON
10338	BALL	70033	LIQUID END HEAD Size 4 316L ss
10411	COUPLING NUT	70034	LIQUID END HEAD Size 6 316L ss
10659	BALL	70117	LIQUID END HEAD Size 4 PVDF
25042	BALL	70143	FERULE, MALE
25128	SEAT	70185	FERULE, MALE
25558	SPRING	70186	FERULE, FEMALE
25906	LIQUID END HEAD Size 6 PP	70187	FERULE, MALE
32234	LIQUID END HEAD Size 6 PVDF	70188	FERULE, FEMALE
35031	LIQUID END HEAD Size 4 PP Hi Vis	70192	FERULE, MALE
35326	SEAT	70193	FERULE, FEMALE
35330	SECONDARY DIAPHRAGM	77118	ASSEMBLY, DIAPHRAGM
36054	SEAT	77119	ASSEMBLY, DIAPHRAGM
36103	O-RING	0210599016N	FITTING
36116	CARTRIDGE	0210696016N	FITTING
36953	ASSEMBLY, DIAPHRAGM	0920046016N	BALL STOP
37012	LIQUID END HEAD Size 4 PP	0920064016N	BALL STOP
37340	SEAT	4070014112N	BALL
37341	SPRING	4370000144N	BALL
48145	SEAT	4370000224N	BALL
48349	O-RING	4370002094N	BALL
48378	COUPLING NUT	4370002144N	BALL
48485	LIQUID END HEAD Size 6 PP Hi Vis	4370002224N	BALL
48851	CORD, POWER USA 120V, A+	4380051072N	O-RING
48852	CORD, POWER USA 230V, A+	4380051162N	O-RING
48853	CORD, POWER DIN, A+	52702-1680	BEZEL,DISPLAY
48855	CORD, POWER BRITISH, A+	52702-1810	CLEAR COVER,DISPLAY
48856	CORD, POWER AUST, A+	RPM54771	RPM Size 4 PP/Ceramic Tube Conn
48857	CORD, POWER SWISS, A+	RPM54772	RPM Size 4 PP/Ceramic DN15 Conn
48859	CORD, POWER NO PLUG, A+	RPM54773	RPM Size 4 PVDF/Ceramic Tube Conn
53441	FERULE, MALE	RPM54774	RPM Size 4 PVDF/Ceramic DN15 Conn
53442	FERULE, FEMALE	RPM54775	RPM Size 4 316 ss Standard
54195	DISPLAY MEMBRANE	RPM54776	RPM Size 4 316 ss Slurry
54714	CONN KIT, 3/8" TUBE	RPM54777	RPM Size 4 PP/316 Ball Hi Vis
54715	CONN KIT, 1/4"x1/2" HOSE	RPM54778	RPM Size 4 PP/316 Ball Tube Conn
54716	CONN KIT, 8mm TUBE	RPM54779	RPM Size 4 PP/316 Ball DN15
54717	CONN KIT, 6x12mm HOSE	RPM54780	RPM Size 6 Ceramic Ball FKM Seat
54718	CONN KIT, 1/2" TUBE	RPM54781	RPM Size 6 316 ss Standard
54800	BULK FERRULE KIT, 3/8" TUBE	RPM54782	RPM Size 6 PP Hi Viscosity
54801	BULK FERRULE KIT, 1/4"x1/2" HOSE	RPM54783	RPM Size 6 316L ss Ball & Seat Slurry
54802	BULK FERRULE KIT, 8mm TUBE	RPM54784	RPM Size 6 316Lss Ball FKM Seat
54803	BULK FERRULE KIT, 6x12mm HOSE		

SERIES G SD METERING PUMPS



Size Code	Max Output		Max Pressure	
	GPH	LPH	PSI	Bar
2	0.7	2.6	175	12.1
4	12	45	150	10.3
7	50	189	100	6.9
8	115	435	75	5.2

Liquid Ends & Drives

The liquid ends and drives for Series G pumps can be purchased separately using the codes from the following product pages.

NOTE: Drives cannot be mixed and matched with all liquid end sizes. Check with factory before attempting to put a different size liquid end on a drive.

SERIES G - SD PUMP SELECTION

73

SIZE CODE 2

0.7 GPH (2.6 LPH); 175 psi (12 bar)

SD2																
Drive End																
SD2		Size Code														
	60Hz						50Hz									
	Metallic Head Gear Code		GPH	LPH	psi	bar	SPM	GPH	LPH	psi	bar	SPM				
	1		0.18	0.7	175	12	43	0.15	0.6	175	12	36				
	2		0.35	1.3	175	12	86	0.29	1.1	175	12	72				
	6		0.48	1.8	175	12	120	0.40	1.5	175	12	102				
	3		0.7	2.6	175	12	173	0.58	2.2	175	12	144				
	Plastic Head Gear Code															
	1		0.12	0.5	175	12	43	0.10	0.4	175	12	36				
	2		0.23	0.9	175	12	86	0.19	0.7	175	12	72				
	6		0.34	1.3	175	12	120	0.28	1.0	175	12	102				
	3		0.51	1.9	175	12	173	0.42	1.6	175	12	144				
	Motor Code															
	8		0.25 HP, 1725 RPM, 1 Phase, 60 Hertz, 115/230 Volt, TEFC, NEMA 56C													
	9		0.33 HP (.25 kW), 1425 RPM, 1 Phase, 50 Hertz, 115/230 Volt, TEFC, NEMA 56C													
	J		0.25 HP, 1725 RPM, 3 Phase, 60 Hertz, 230/460 Volt, TEFC, NEMA 56C													
	L		0.33 HP (.25 kW), 1425 RPM, 3 Phase, 50 Hertz, 220/380/440 Volt, TEFC, NEMA 56C													
	P		DC Variable Speed Drive; 0.5 HP 1725 RPM TEFC motor w/DC Drive, 4-20 mA input, NEMA 4/12 115 VAC													
	X		Mount less Motor; Flange Mount, NEMA 56C													
			Liquid End		Head		Valves		Seals		Seats		Balls		RPM	
			2 PVDF		PVDF		PVDF		PolyPrel®		C22		Ceramic		RPM099	
			8 PVC		PVC		PVDF		PolyPrel®		C22		Ceramic		RPM099	
			7 316 SS		316 SS		316 SS		PTFE		316 SS		316 SS		RPM101	
			P Polymer Apps.		PVC		PVDF		Viton®		C 22		Alloy 20		Call Factory	
			N H2SO4 Apps		PVC		PVDF		PolyPrel®		Alloy 20		Alloy 20		Call Factory	
			Connection Code													
			P Standard 1/4" NPTM													
		T Tubing (Barb Fitting) 1/4"														
Not available on Metallic Heads																
SD2	1	8	2	P												

RPM	Contents
RPM099	
RPM101	*Diaphragm
	*Oil Seal
	*O-Rings
	*Suction & Discharge Cartridge, OR
	*Balls & Seats

All capacities are based on maximum pressures. For operation at reduced pressures, add 1% flow for every 25 psi (1.7 bar) decrease in pressure.

Motor requirements: 1/4 Horsepower or 0.18 KW

SERIES G - SD PUMP SELECTION

74

SIZE CODE 4

14.4 GPH (55 LPH); 150 psi (10 bar)

SD4										
Drive End										
SD4	Size Code									
Gear Code	60Hz					50Hz				
	GPH	LPH	psi	bar	SPM	GPH	LPH	psi	bar	SPM
1	3	11.4	150	10	43	2.5	9.5	150	10	36
2	6.6	25	150	10	86	5.5	21	150	10	72
6	10	38	150	10	120	6.9	26	150	10	102
3	14.4	55	150	10	173	12	45	150	10	144
Motor Code										
8	0.25 HP, 1725 RPM, 1 Phase, 60 Hertz, 115/230 Volt, TEFC, NEMA 56C									
9	0.33 HP (.25 kW), 1425 RPM, 1 Phase, 50 Hertz, 115/230 Volt, TEFC, NEMA 56C									
J	0.25 HP, 1725 RPM, 3 Phase, 60 Hertz, 230/460 Volt, TEFC, NEMA 56C									
L	0.33 HP (.25 kW), 1425 RPM, 3 Phase, 50 Hertz, 220/380/440 Volt, TEFC, NEMA 56C									
P	DC Variable Speed Drive; 0.5 HP 1725 RPM TEFC motor w/DC Drive, 4-20 mA input, NEMA 4/12 115 VAC									
X	Mount less Motor; Flange Mount, NEMA 56C									
Liquid End	Head		Valves		Seals		Seats		Balls	
	RPM Kit									
2	PVDF	PVDF	PVDF	PolyPrel®	PTFE	Ceramic	RPM102			
8	PVC	PVC	PVDF	PolyPrel®	PTFE	Ceramic	RPM102			
7	316 SS	316 SS	316 SS	PTFE	316 SS	316 SS	RPM104			
P	Polymer Apps	PVC	PVDF	Viton®	316 SS	316 SS	RPM196			
L	Slurry Apps	316 SS	316 SS	-	316 SS	316 SS	RPM212			
N	H2SO4 Apps	PVC	PVDF	PolyPrel®	Alloy 20	Alloy 20	RPM173			
Connection Code										
P	Standard, 1/4" NPTM (1/2" for Slurry Apps)									
T	Tubing (Barb Fitting) 1/2"									
P	Degassing, 1/4" NPTF, must order Valve PN 38794									
T	Degassing, 1/2" Tubing, must order Valve PN 38794									
SD4	1	8	2	P						

RPM Kit	Contents
RPM102	*Diaphragm
RPM102	*Oil Seal
RPM104	*O-Rings
RPM196	*Suction & Discharge
RPM173	Cartridge, OR
RPM212	*Balls & Seats

Degassing Valve

38794

All capacities are based on maximum pressures. For operation at reduced pressures, add 1% flow for every 25 psi (1.7 bar) decrease in pressure.

Motor requirements: 1/4 Horsepower or 0.18 KW

SERIES G - SD PUMP SELECTION

75

SIZE CODE 7

50 GPH (189 LPH); 100 psi (7 bar)

SD7											
Drive End											
SD7 Size Code											
	60Hz					50Hz					
	Gear Code	GPH	LPH	psi	bar	SPM	GPH	LPH	psi	bar	SPM
	1	13	49	100	7	43	10	38	100	7	36
	2	25	95	100	7	86	21	79	100	7	72
	6	34	129	100	7	120	28	106	100	7	102
	3	50	189	100	7	173	42	159	100	7	144
	Motor Code										
	8	0.25 HP, 1725 RPM, 1 Phase, 60 Hertz, 115/230 Volt, TEFC, NEMA 56C									
	9	0.33 HP (.25 kW), 1425 RPM, 1 Phase, 50 Hertz, 115/230 Volt, TEFC, NEMA 56C									
	J	0.25 HP, 1725 RPM, 3 Phase, 60 Hertz, 230/460 Volt, TEFC, NEMA 56C									
L	0.33 HP (.25 kW), 1425 RPM, 3 Phase, 50 Hertz, 220/380/440 Volt, TEFC, NEMA 56C										
P	DC Variable Speed Drive; 0.5 HP 1725 RPM TEFC motor w/DC Drive, 4-20 mA input, NEMA 4/12 115 VAC										
X	Mount less Motor; Flange Mount, NEMA 56C										
		Liquid End	Head	Valves	Seals	Seats	Balls	RPM Kit			
		2	PVDF	PVDF	PVDF	Teflex®	PVDF	Ceramic	RPM136		
		8	PVC	PVC	PVDF	Viton®	PVC	Ceramic	RPM135		
		7	316 SS	316 SS	316 SS	Viton®	316 SS	316 SS	RPM137		
		P	Polymer Apps	PVC	PVC	Viton®	316 SS	316 SS	RPM211		
		L	Slurry Apps	PVC	316 SS	Viton®	316 SS	316 SS	RPM401		
		N	H2SO4 Apps	PVC	PVDF	PolyPreI®	Alloy 20	Alloy 20	RPM175		
		Connection Code									
	P	Standard 1/2" NPTF									
	T	Tubing (Barb Fitting) 1/2"						Not available on Metallic Heads			
P	Degassing, 1/2" NPTF, must order Valve PN 61411						Not available on Metallic Heads				
T	Degassing, 1/2" Tubing, must order Valve PN 61411						Not available on Metallic Heads				
SD7	1	8	2	P							

RPM Kit	Contents
RPM135	*Diaphragm
RPM136	*Oil Seal
RPM137	*O-Rings
RPM211	*Suction & Discharge
RPM175	Cartridge, OR
RPM401	*Balls & Seats

Degassing Valve
61411

All capacities are based on maximum pressures. For operation at reduced pressures, add 1% flow for every 25 psi (1.7 bar) decrease in pressure.

Motor requirements: 1/4 Horsepower or 0.18 KW

SERIES G - SD PUMP SELECTION

76

SIZE CODE 8

127 GPH (481 LPH); 75 psi (5 bar)

SD8											
Drive End											
SD8		Size Code									
	60Hz					50Hz					
	Gear Code	GPH	LPH	psi	bar	SPM	GPH	LPH	psi	bar	SPM
	1	31	117	75	5	43	26	98	75	5	36
	2	57	216	75	5	86	47	178	75	5	72
	6	87	329	75	5	120	72	273	75	5	102
	3	127	481	75	5	173	106	401	75	5	144
	Motor Code										
	9	0.33 HP (.25 kW), 1425 RPM, 1 Phase, 50 Hertz, 115/230 Volt, TEFC, NEMA 56C									
	J	0.25 HP, 1725 RPM, 3 Phase, 60 Hertz, 230/460 Volt, TEFC, NEMA 56C									
	L	0.33 HP (.25 kW), 1425 RPM, 3 Phase, 50 Hertz, 220/380/440 Volt, TEFC, NEMA 56C									
P	DC Variable Speed Drive; 0.5 HP 1725 RPM TEFC motor w/DC Drive, 4-20 mA input, NEMA 4/12 115 VAC										
X	Mount less Motor; Flange Mount, NEMA 56C										
		Liquid End	Head	Valves	Seals	Seats	Balls	RPM Kit			
		2	PVDF	PVDF	PVDF	Teflex®	PVDF	Ceramic	RPM106		
		8	PVC	PVC	PVDF	Viton®	PVC	Ceramic	RPM105		
		7	316 SS	316 SS	316 SS	Viton®	316 SS	316 SS	RPM107		
		P	Polymer Apps	PVC	PVC	Viton®	316 SS	316 SS	RPM210		
		L	Slurry Apps	PVC	316 SS	Viton®	316 SS	316 SS	Call Factory		
		N	H2SO4 Apps	PVC	PVDF	Viton®	Alloy 20	Alloy 20	RPM183		
		Connection Code									
	P	Standard 1/2" NPTF									
	T	Tubing (Barb Fitting) 1/2"					Not available on Metallic Heads				
P	Degassing, 1/2" NPTF, must order Valve PN 61411					Not available on Metallic Heads					
T	Degassing, 1/2" Tubing, must order Valve PN 61411					Not available on Metallic Heads					
SD8	1	8	2	P							

RPM Kit	Contents
RPM105	*Diaphragm
RPM106	*Oil Seal
RPM107	*O-Rings
RPM210	*Suction & Discharge
RPM183	Cartridge, OR *Balls & Seats

Degassing Valve
61411

All capacities are based on maximum pressures. For operation at reduced pressures, add 1% flow for every 25 psi (1.7 bar) decrease in pressure.

Motor requirements: 1/4 Horsepower or 0.18 KW for 3-phase
1/3 Horsepower or 0.25 KW for 1-phase

SERIES G - SD PUMP PARTS - DRIVES

77

Series G Model SD Drive End

SD				
Drive End Only				
SD				
Liquid End Size Code				Max GPH at 173 SPM
2	Only fits on Liquid End Code 2			0.7
4	Liquid End Code 4 & 7 are interchangeable on drives with any of these codes			14.4
7	Liquid End Code 4 & 7 are interchangeable on drives with any of these codes			50
8	Only fits on Liquid End Code 8			127
	Gear Code		SPM at 60 Hz	SPM at 50 Hz
	1		43	36
	2		86	72
	6		120	102
	3		173	144
	Motor Code			
	8	0.25 HP, 1725 RPM, 1 Phase, 60 Hertz, 115/230 Volt, TEFC, NEMA 56C		
	9	0.33 HP (.25 kW), 1425 RPM, 1 Phase, 50 Hertz, 115/230 Volt, TEFC, NEMA 56C		
	J	0.25 HP, 1725 RPM, 3 Phase, 60 Hertz, 230/460 Volt, TEFC, NEMA 56C		
	L	0.33 HP (.25 kW), 1425 RPM, 3 Phase, 50 Hertz, 220/380/440 Volt, TEFC, NEMA 56C		
	P	0.5 HP 1725 RPM TEFC motor w/DC Drive, 4-20 mA Input, NEMA 4/12 115 VAC		
	X	Mount less Motor; Flange Mount, NEMA 56C		
SD	2	1	8	-DR

All capacities are based on maximum pressures. For operation at reduced pressures, add 1% flow for every 25 psi (1.7 bar) decrease in pressure.

Motor requirements: 1/4 Horsepower or 0.18 KW

SERIES G - SD PUMP PARTS - LIQUID ENDS

78

Series G Model SD Liquid End

SD								
Liquid End Only								
SD2		Size Code 2						
SD4		Size Code 4						
SD7		Size Code 7						
SD8		Size Code 8						
	Liquid End Material by Size Code							
	Size Code 2		Head	Valves	Seals	Seats	Balls	RPM
	2	PVDF	PVDF	PVDF	PolyPrel®	C22	Ceramic	RPM099
	8	PVC	PVC	PVDF	PolyPrel®	C22	Ceramic	RPM099
	7	316 SS	316 SS	316 SS	PTFE	316 SS	316 SS	RPM101
	P	Polymer Apps.	PVC	PVDF	Viton®	Alloy 22	Alloy 20	Call Factory
	N	H2SO4 Apps	PVC	PVDF	PolyPrel®	Alloy 20	Alloy 20	Call Factory
	Size Code 4		Head	Valves	Seals	Seats	Balls	RPM Kit
	2	PVDF	PVDF	PVDF	Teflex®	PVDF	Ceramic	RPM102
	8	PVC	PVC	PVDF	Viton®	PVC	Ceramic	RPM102
	7	316 SS	316 SS	316 SS	Viton®	316 SS	316 SS	RPM104
	P	Polymer Apps	PVC	PVC	Viton®	316 SS	316 SS	RPM196
	L	Slurry Apps	PVC	316 SS	Viton®	316 SS	316 SS	RPM212
	N	H2SO4 Apps	PVC	PVDF	Viton®	Alloy 20	Alloy 20	RPM173
	Size Code 7		Head	Valves	Seals	Seats	Balls	RPM Kit
	2	PVDF	PVDF	PVDF	Teflex®	PVDF	Ceramic	RPM136
	8	PVC	PVC	PVDF	Viton®	PVC	Ceramic	RPM135
	7	316 SS	316 SS	316 SS	Viton®	316 SS	316 SS	RPM137
	P	Polymer Apps	PVC	PVC	Viton®	316 SS	316 SS	RPM211
	L	Slurry Apps	PVC	316 SS	Viton®	316 SS	316 SS	RPM401
	N	H2SO4 Apps	PVC	PVDF	PolyPrel®	Alloy 20	Alloy 20	RPM175
	Size Code 8		Head	Valves	Seals	Seats	Balls	RPM Kit
	2	PVDF	PVDF	PVDF	Teflex®	PVDF	Ceramic	RPM106
	8	PVC	PVC	PVDF	Viton®	PVC	Ceramic	RPM105
	7	316 SS	316 SS	316 SS	Viton®	316 SS	316 SS	RPM107
	P	Polymer Apps	PVC	PVC	Viton®	316 SS	316 SS	RPM210
	L	Slurry Apps	PVC	316 SS	Viton®	316 SS	316 SS	Call Factory
	N	H2SO4 Apps	PVC	PVDF	Viton®	Alloy 20	Alloy 20	RPM183
	Connections by Size Code							
	Size Code 2							
	P		Standard 1/4" NPTM					
	T		Tubing (Barb Fitting) 1/4"					Not available on Metallic Heads
	Size Code 4							
	P		Standard, 1/4" NPTM (1/2" for Slurry Apps)					
	T		Tubing (Barb Fitting) 1/2"					Not available on Metallic Heads
	P		Degassing, 1/4" NPTF, must order Valve PN 38794					Not available on Metallic Heads
	T		Degassing, 1/2" Tubing, must order Valve PN 38794					Not available on Metallic Heads
	Size Code 7 & 8							
	P		Standard 1/2" NPTF					
	T		Tubing (Barb Fitting) 1/2"					Not available on Metallic Heads
	P		Degassing, 1/2" NPTF, must order Valve PN 61411					Not available on Metallic Heads
	T		Degassing, 1/2" Tubing, must order Valve PN 61411					Not available on Metallic Heads
	SD2	2	P	-LE				

Degassing Valve

38794

61411

All capacities are based on maximum pressures. For operation at reduced pressures, add 1% flow for every 25 psi (1.7 bar) decrease in pressure.

Motor requirements: 1/4 Horsepower or 0.18 KW

SERIES G SG METERING PUMPS



Size Code	Max Output		Max Pressure	
	GPH	LPH	PSI	Bar
5	106	400	150	10.3
6	147	556	100	6.9
7	300	1136	50	3.4

Liquid Ends & Drives

The liquid ends and drives for Series G pumps can be purchased separately using the codes from the following pages.

NOTE: Drives cannot be mixed and matched with all liquid end sizes. Check with factory before attempting to put a different size liquid end on a drive.

SERIES G - SG PUMP SELECTION

80

SIZE CODE 5

106 GPH (400 LPH); 150 psi (10.3 bar)

SG5											
Drive End											
SG5 Size Code											
Gear Code	60Hz					50Hz					
	GPH	LPH	psi	bar	SPM	GPH	LPH	psi	bar	SPM	
	1	26	98	150	10.3	43	22	82	150	10.3	36
	2	53	200	150	10.3	86	44	167	150	10.3	72
	6	75	284	150	10.3	120	63	237	150	10.3	102
	3	106	400	150	10.3	173	88	334	150	10.3	144
	Motor Code										
8	1 HP, 1725 RPM, 1 Phase, 60 Hertz, 115/230 Volt, TEFC, NEMA 56C										
9	1 HP (.75 kW), 1425 RPM, 1 Phase, 50 Hertz, 115/230 Volt, TE, NEMA 56C										
J	1 hp, 1725 RPM, 3 Phase, 60 Hertz, 230/460 Volt, TEFC, NEMA 56C										
L	1 HP (.75 kW), 1450 RPM, 3 Phase, 50 Hertz, 220/380 Volt, TEFC, NEMA 56C										
P	1 HP 1725 RPM TEFC motor w/DC Drive, 4-20 mA input, NEMA 4/12 115 VAC										
X	Mount less Motor; Flange Mount, NEMA 56C										
Y	Mount less Motor; Flange Mount, NEMA 143/145TC										
Liquid End	Head	Valves	Seals	Seats	Balls	RPM					
2 PVDF	PVDF	PVDF	Teflex®	PVDF	Ceramic	RPM046					
7 316 SS	316 SS	316 SS	Viton®	316 SS	316 SS	RPM047					
8 PVC	PVC	PVC	Viton®	PVC	Ceramic	RPM045					
4 Black PP	Black PP	PVDF	Viton®	PVC	Ceramic	RPM045					
C Caustic Apps	PVC	PVDF	EPDM	PVC	Ceramic	RPM483					
F Flouride Apps	PVC	PVDF	Viton®	PVC	PTFE	RPM045					
P Polymer Apps	PVC	PVDF	Viton®	316 SS	316 SS	RPM126					
L Slurry Apps*	PVC	316 SS	Viton®	316 SS (pin)	316 SS	SEE NOTE					
N H2SO4 Apps	PVC	PVDF	Viton®	Alloy 20	Alloy 20	RPM175					
Connection Code											
P	Standard, 1/2" NPTF										
T	Tubing (Barb Fitting) 1/2"										
P	Degassing, 1/2" NPTF, must order Valve PN 61411				Not available on Metallic Heads						
T	Degassing, 1/2" Tubing, must order Valve PN 61411				Not available on Metallic Heads						
SG5	1	8	2	P							

RPM	Contents
RPM045	*Diaphragm *Oil Seal *O-Rings *Suction & Discharge Cartridge, OR *Balls & Seats
RPM046	
RPM047	
RPM483	
RPM126	
RPM175	
RPM226	
RPM400	

Degassing Valve
61411

*NOTE:

Slurry LE prior to May 2008, use RPM226.

Slurry LE post May 2008, new, or converted, use RPM400

SG5 Slurry pumps made before 2008 may require conversion kit RPM226 in order to use parts in RPM400 going forward. RPM400 is a more cost effective design used on all new pumps after May 2008 and on those converted to the new design using RPM226.

High Viscosity Liquid Ends may result in a reduction of output.

All Diaphragms are PTFE.

All capacities are based on maximum pressures. For operation at reduced pressures, add 1% flow for every 25 psi (1.7 bar) decrease in pressure.

Motor Requirements: 1HP / 0.75kW for Single and Three Phase

SERIES G - SG PUMP SELECTION

81

SIZE CODE 6

147 GPH (556 LPH); 100 psi (6.9 bar)

SG6													
Drive End													
SG6 Size Code													
		60Hz					50Hz						
		Gear Code	GPH	LPH	psi	bar	SPM	GPH	LPH	psi	bar	SPM	
		1	36	136	100	6.9	43	30	114	100	6.9	36	
		2	73	276	100	6.9	86	61	230	100	6.9	72	
		6	104	394	100	6.9	120	87	238	100	6.9	102	
		3	147	556	100	6.9	173	123	464	100	6.9	144	
		Motor Code	8	1 HP, 1725 RPM, 1 Phase, 60 Hertz, 115/230 Volt, TEFC, NEMA 56C									
			9	1 HP (.75 kW), 1425 RPM, 1 Phase, 50 Hertz, 115/230 Volt, TE, NEMA 56C									
			J	1 hp, 1725 RPM, 3 Phase, 60 Hertz, 230/460 Volt, TEFC, NEMA 56C									
			L	1 HP (.75 kW), 1450 RPM, 3 Phase, 50 Hertz, 220/380 Volt, TEFC, NEMA 56C									
P			1 HP 1725 RPM TEFC motor w/DC Drive, 4-20 ma input, NEMA 4/12 115 VAC										
X			Mount less Motor; Flange Mount, NEMA 56C										
Y		Mount less Motor; Flange Mount, NEMA 143/145TC											
		Liquid End	Head	Valves	Seals	Seats	Balls	RPM					
			2 PVDF	PVDF	PVDF	Teflex®	PVDF	Ceramic	RPM049				
			7 316 SS	316 SS	316 SS	PTFE	316 SS	316 SS	RPM050				
	8 PVC		PVC	PVC	Viton®	PE	Ceramic	RPM048					
	4 Black PP		Black PP	PP	Viton®	PE	Ceramic	RPM048					
	C Caustic Apps		PVC	PVC	EPDM	PE	Ceramic	RPM485					
	F Flouride Apps		PVC	PVC	Viton®	PE	PTFE	RPM048					
	P Polymer Apps		PVC	PVC	Viton®	316 SS	316 SS	RPM176					
	L Slurry Apps		PVC	316 SS	Viton®	316 SS (pin)	316 SS	RPM219					
	N H2SO4 Apps		PVC	PVDF	Viton®	Alloy 20	Alloy 20	RPM194					
	Connection Code	P	Standard; 1" NPTF for Plastic Heads, 1" NPTM for Metallic Heads										
		T	Tubing (Barb Fitting) 1"										
		P	Degassing, 1/2" NPTF, must order Valve PN 61421					Not available on Metallic Heads					
		T	Degassing, 1/2" Tubing, must order Valve PN 61421					Not available on Metallic Heads					
SG6	1	8	2	P									

RPM	Contents
RPM048	*Diaphragm
RPM049	*Oil Seal
RPM050	*O-Rings
RPM176	*Suction & Discharge
RPM194	Cartridge, OR
RPM219	*Balls & Seats
RPM485	

Degassing Valve

61411

NOTE:

High Viscosity Liquid Ends may result in a reduction of output.

All Diaphragms are PTFE.

All capacities are based on maximum pressures. For operation at reduced pressures, add 1% flow for every 25 psi (1.7 bar) decrease in pressure.

Motor Requirements: 1HP / 0.75kW for Single and Three Phase

SERIES G - SG PUMP SELECTION

82

SIZE CODE 7

300 GPH (1136 LPH); 50 psi (3.4 bar)

SG7

Drive End

SG7 Size Code

60Hz						50Hz				
Gear Code	GPH	LPH	psi	bar	SPM	GPH	LPH	psi	bar	SPM
1	75	284	50	3.4	43	63	237	50	3.4	36
2	149	564	50	3.4	86	127	470	50	3.4	72
6	208	787	50	3.4	120	173	656	50	3.4	102
3	300	1136	50	3.4	173	250	946	50	3.4	144
Motor Code										
8	1.5 HP, 1725 RPM, 1 Phase, 60 Hertz, 115/230 Volt, TEFC, NEMA 56C									
9	1.5 HP (1.1 kW), 1425 RPM, 1 Phase, 50 Hertz, 115/230 Volt, TE, NEMA 56C									
J	1 hp, 1725 RPM, 3 Phase, 60 Hertz, 230/460 Volt, TEFC, NEMA 56C									
L	1 HP (.75 kW), 1450 RPM, 3 Phase, 50 Hertz, 220/380 Volt, TEFC, NEMA 56C									
P	1 HP 1725 RPM TEFC motor w/DC Drive, 4-20 ma input, NEMA 4/12 115 VAC									
X	Mount less Motor; Flange Mount, NEMA 56C									
Y	Mount less Motor; Flange Mount, NEMA 143/145TC									
Liquid End										
2	PVDF	PVDF	PVDF	Teflex®	PVDF	Ceramic	RPM052			
7	316 SS	316 SS	316 SS	PTFE	316 SS	316 SS	RPM053			
8	PVC	PVC	PVC	Viton®	PE	Ceramic	RPM051			
C	Caustic Apps	PVC	PVC	EPDM	PE	Ceramic	RPM487			
F	Flouride Apps	PVC	PVC	Viton®	PE	Teflon	RPM488			
P	Polymer Apps	PVC	PVC	Viton®	316 SS	316 SS	RPM221			
L	Slurry Apps	PVC	316 SS	Viton®	316 SS (pin)	316 SS	RPM220			
N	H2SO4 Apps	PVC	PVC	Viton®	Alloy 20	Alloy 20	RPM203			
Connection Code										
P	Standard; 1" NPTF for Plastic Heads, 1" NPTM for Metallic Heads									
T	Tubing (Barb Fitting) 1"									
P	Degassing, 1/2" NPTF, must order Valve PN 61421					Not available on Metallic Heads				
T	Degassing, 1/2" Tubing, must order Valve PN 61421					Not available on Metallic Heads				
SG7	1	8	2	P						

RPM	Contents
RPM051	*Diaphragm
RPM052	*Oil Seal
RPM053	*O-Rings
RPM203	*Suction & Discharge
RPM220	Cartridge, OR
RPM221	*Balls & Seats
RPM487	
RPM488	

Degassing Valve

61421

NOTE:

High Viscosity Liquid Ends may result in a reduction of output.

All Diaphragms are PTFE.

All capacities are based on maximum pressures. For operation at reduced pressures, add 1% flow for every 25 psi (1.7 bar) decrease in pressure.

Motor Requirements-

Single Phase: 1.5 HP / 1.1 kW

Three Phase : 1 HP / 0.75 kW

SERIES G - SG

PUMP PARTS - DRIVES

83

Series G Model SG Drive End

SG				
Drive End Only				
SG	Size Code			
	Gear Code		SPM at 60 Hz	
	1		43	36
	2		86	72
	6		120	102
	3		173	144
	Motor Code			
	8	1 HP for LE Code 5 & 6 or 1.5 HP for LE Code 7, 1725 RPM, 1 Phase, 60 Hertz, 115/230 Volt, TEFC, NEMA 56C		
	9	1 HP (.75 kW) for LE Code 5 & 6 or 1.5 HP (1.1 kW) for LE Code 7, 1425 RPM, 1 Phase, 50 Hertz, 115/230 Volt, TEFC, NEMA 56C		
	J	1 hp, 1725 RPM, 3 Phase, 60 Hertz, 230/460 Volt, TEFC, NEMA 56C		
	L	1 HP (.75 kW), 1450 RPM, 3 Phase, 50 Hertz, 220/380 Volt, TEFC, NEMA 56C		
	P	1 HP 1725 RPM TEFC motor w/DC Drive, 4-20 ma input, NEMA 4/12 115 VAC		
	X	Mount less Motor; Flange Mount, NEMA 56C		
	Y	Mount less Motor; Flange Mount, NEMA 143/145TC		
SG	1	8	-DR	

SERIES G - SG PUMP PARTS - LIQUID ENDS

84

Series G Model SG Liquid End

SG								
Liquid End Only								
SG5		Size Code 5						
SG6		Size Code 6						
SG7		Size Code 7						
	Liquid End Material by Size Code							
	Size Code 5		Head	Valves	Seals	Seats	Balls	RPM
	2	PVDF	PVDF	PVDF	Teflex®	PVDF	Ceramic	RPM046
	7	316 SS	316 SS	316 SS	Viton®	316 SS	316 SS	RPM047
	8	PVC	PVC	PVC	Viton®	PVC	Ceramic	RPM045
	4	Black PP	Black PP	PVDF	Viton®	PVC	Ceramic	RPM045
	C	Caustic Apps	PVC	PVDF	EPDM	PVC	Ceramic	RPM483
	F	Flouride Apps	PVC	PVDF	Viton®	PVC	PTFE	RPM045
	P	Polymer Apps	PVC	PVDF	Viton®	316 SS	316 SS	RPM126
	L	Slurry Apps	PVC	316 SS	Viton®	316 SS (pin)	316 SS	see note
	N	H2SO4 Apps	PVC	PVDF	Viton®	Alloy 20	Alloy 20	RPM175
	Size Code 6		Head	Valves	Seals	Seats	Balls	RPM
	2	PVDF	PVDF	PVDF	Teflex®	PVDF	Ceramic	RPM049
	7	316 SS	316 SS	316 SS	PTFE	316 SS	316 SS	RPM050
	8	PVC	PVC	PVC	Viton®	PE	Ceramic	RPM048
	4	Black PP	Black PP	PP	Viton®	PE	Ceramic	RPM048
	C	Caustic Apps	PVC	PVC	EPDM	PE	Ceramic	RPM485
	F	Flouride Apps	PVC	PVC	Viton®	PE	PTFE	RPM048
	P	Polymer Apps	PVC	PVC	Viton®	316 SS	316 SS	RPM176
	L	Slurry Apps	PVC	316 SS	Viton®	316 SS (pin)	316 SS	RPM219
	N	H2SO4 Apps	PVC	PVDF	Viton®	Alloy 20	Alloy 20	RPM194
	Size Code 7		Head	Valves	Seals	Seats	Balls	RPM
	2	PVDF	PVDF	PVDF	Teflex®	PVDF	Ceramic	RPM052
	7	316 SS	316 SS	316 SS	PTFE	316 SS	316 SS	RPM053
	8	PVC	PVC	PVC	Viton®	PE	Ceramic	RPM051
	C	Caustic Apps	PVC	PVC	EPDM	PE	Ceramic	RPM487
	F	Flouride Apps	PVC	PVC	Viton®	PE	Teflon	RPM488
	P	Polymer Apps	PVC	PVC	Viton®	316 SS	316 SS	RPM221
	L	Slurry Apps	PVC	316 SS	Viton®	316 SS (pin)	316 SS	RPM220
	N	H2SO4 Apps	PVC	PVC	Viton®	Alloy 20	Alloy 20	RPM203
	Connections by Size Code							
	Size Code 5							
	P Standard, 1/2" NPTF							
	T Tubing (Barb Fitting) 1/2"							
	P Degassing, 1/2" NPTF, must order Valve PN 61411					Not available on Metallic Heads		
	T Degassing, 1/2" Tubing, must order Valve PN 61411					Not available on Metallic Heads		
	Size Code 6 & 7							
	P Standard; 1" NPTF for Plastic Heads, 1" NPTM for Metallic Heads							
	T Tubing (Barb Fitting) 1"							
	P Degassing, 1/2" NPTF, must order Valve PN 61421					Not available on Metallic Heads		
	T Degassing, 1/2" Tubing, must order Valve PN 61421					Not available on Metallic Heads		
	SG5	2	P	-LE				

Degassing Valve

61411

61421

Series G Parts by Number

85

Part Number	Description	Units	Part Number	Description	Units
21291	DRIVE SHAFT MACROY D	EA	60640	DIAPHRAGM CAP GB80 PVDF	EA
39461	CARTRIDGE ASM, .375	EA	60642	SUPPORT NUT GB80 304SS	EA
40203	WALDES TRUARC RET RING 5133-12	EA	60654	OBSOLETE - SEE S60654	EA
40204	WALDES RET RING X5133-18	EA	60733	COUPLING WORM,GM/MACROY D, 56C	EA
40348	O-RING TEFLEX PARKER#2-117	EA	60754	BACK-UP PLATE G40/60	EA
41065	BREATHING PLUG, 3/8 (#54022)	EA	60765	O-RING, TEFLEX-V-123	EA
41069	SOC HD SCR #10-24X1-3/4 SS	EA	60819	G40 LIME SLURRY,SEAL RING,316S	EA
41655	BALL 9/32 DIA. CA20	EA	60828	DO NOT USE (S60829&S60829)	EA
60001	DRIVE HOUSING MACHINED GB	EA	60829	DO NOT USE (S60829&S60829)	EA
60002	SLIDING CRANK STEEL GB	EA	60855	SEAT 5/8" BALL CA20	EA
60003	ECCENTRIC STEEL GB	EA	60865	CONV KIT D7,D8,G5 POLYMER 1/2"	EA
60007	GEAR 10:1	EA	60875	ECCENTRIC; STROKE COUNTING	EA
60009	GEAR 20:1 MACD	EA	60876	TARGET; MACG STROKE COUNTING	EA
60011	GEAR 40:1 MACG	EA	60877	HOUSING; STROKE COUNTING	EA
60014	THRUST FLANGE BEARING GB	EA	60878	INDUCTIVE PROXIMITY SWITCH	EA
60020	WORM 40:1 F130 GB	EA	60931	BASE KIT MACROY	EA
60024	CARTRIDGE BODY PVDF GB40	EA	60948	STRK ADJ SCR G OBSOL(H60768)	EA
60031	HEAD PVDF GB40	EA	60949	BRG RET OBSOL(H60757)	EA
60032	HEAD POLYPRO GB40	EA	60973	HSG STROKE COUNTING SPECIAL G	EA
60033	HEAD PVC GB40	EA	60974	TARGET ADAPTER STR COUNTING	EA
60034	OIL SEAL CLAMP ALUM G	EA	60995	DIAPHRAGM, MACROY D, LE4	EA
60035	DIAPH SUPPORT RING GB40 POLYP	EA	61035	SPACER: MACROY D LE 2/4	EA
60043	OIL SEAL CLAMP ALUM G	EA	61051	SUPPORT NUT: MACD4.0	EA
60048	DIAPHRAGM / OIL SEAL BELLOW	EA	61052	DIAPHRAGM CAP; PVC; MACD4.0	EA
60050	GEAR OBSOLETE - SEE S60050	EA	61053	DIAPHRAGM CAP; PVDF; MACD4.0	EA
60052	SHOE GB	EA	61055	PTFE WASHER	EA
60068	HEAD PVDF GB60	EA	61056	PVC HEAD	EA
60070	DIAPHRAGM SUPPORT RING GB60	EA	61057	DIAPHRAGM HEAD, MACD4.0, PVDF	EA
60086	HEX HEAD PLUG 3/8-19 BSP	EA	61059	10-24X 3/4" HI-PREFORM HEXHEAD	EA
60117	UNION END 1/2 NPT FEMALE PVC	EA	61075	SUPPORT RING MACROY D 4	EA
60119	UNION END 1/2 NPT PVDF	EA	61076	MAC D & MIL D NAMEPLTE	EA
60130	HEAD PVC GB60	EA	61083	ADAPTER; MACD2.0	EA
60132	UNION END 1" NPT PVC	EA	61088	DIAPHRAM SEAT RING	EA
60133	UNION END 1" NPT PVDF	EA	61089	DIAPHRAGM HEAD PVC SD2	EA
60135	COUPLING 1 BSP X 1/2 NPT 316	EA	61090	DIAPHRAGM HEAD PVDF SD2	EA
60147	UNION END 1" BSP PVDF	EA	61104	MALE ECCENTRIC SD2	EA
60148	CAUTION MOTOR DECAL G	EA	61105	FEMALE ECCENTRIC SD2	EA
60150	DIAPHRAGM ASSY GB40 PVC	EA	61106	DIAPHRAGM HEAD 316SS SD2	EA
60151	DIAPHRAGM ASSY GB60 PVC	EA	61107	BALL SEAT 9/32 BALL	EA
60159	DIAPHRAGM SUPPORT RING GB80	EA	61108	KEY SD2	EA
60160	CAP POLYPRO B80 (60639)	EA	61114	COUPLING IEC 71 FR MAC D	EA
60162	DIAPHRAGM GB80 GYLON	EA	61115	COUPLING 56CFR MAC D	EA
60163	SUPPORT NUT ALUM GB80 (60642)	EA	61116	BEARING DEEP GROOVE SKF# 6203	EA
60165	ADAPTER LE/HSG ALUM GB80	EA	61118	G60-80 SLURRY VALVE BODY,316	EA
60171	HEAD PVC GB80	EA	61136	COVER MACHINED SD	EA
60173	DIAPH CAP PVDF GB80 (60640)	EA	61141	CHECK VALVE SD2-PVC/PVDF-NPT	EA
60174	HEAD PVDF GB80	EA	61142	CHECK VALVE SD2-PVC/PVDF-TUBE	EA
60180	DIAPHRAGM HEAD 316 GB80	EA	61145	SUPPORT RING, SD8	EA
60199	MOTOR ADAPTER PLATE IEC 80	EA	61146	SUPPORT NUT; D8	EA
60206	HEX HD SCR M8X130MM LG 304SS	EA	61147	HEAD PVDF SD8	EA
60208	HEX NIPPLE 1/4NPT X 1/4BSP 316	EA	61148	HEAD PVC SD8	EA
60222	WORM-GEAR-SHAFT 10:1 IEC80	EA	61149	HEAD 316SS SD8	EA
60223	WORM-GEAR-SHAFT 20:1 IEC 80	EA	61152	SPACER: MACROY D7/8	EA
60224	WORM-GEAR-SHAFT 40:1 IEC80	EA	61153	SPRING CUP D7/8 (6)	EA
60226	DIAPHRAGM ASSY GB80 PVC	EA	61154	PTFE SEAL RING	EA
60227	DIAPHRAGM ASSY GB80 POLYPRO	EA	61155	ADAPTER, CONN. ROD, SD7/8	EA
60228	DIAPHRAGM ASSY GB80 316SS	EA	61156	LE ADPTR, SD7/8(D61156/HIS)	EA
60229	DIAPHRAGM ASSY GB80 PVDF	EA	61216	SEAT CA20 1" BALL, MACROY G	EA
60232	D.D. SPACER PVC GB80	EA	61246	STANDOFF - D/SD ECC	EA
60233	D.D. INTER RING PVC GB80	EA	61247	DRIVE COUPLING - D/SD ECC	EA
60260	WORM SHAFT COUPLING IEC 71 FR	EA	61260	HEAD BLEED PORT 316 GB40	EA
60261	WORM SHAFT COUPLING 56C FR	EA	61261	STROKE SCREW, ORING, MACROY D	EA
60264	SPRING LEE LC-092H-1	EA	61262	SET SCREW M8 MOD, 3" MACROY D	EA
60266	CHECK 1/2NPT CERAMIC BALL	EA	61266	BASE MACROY G AND D	EA
60292	SIDE GUARDS ECC GB MODIFY	EA	61270	SEAT 3/8 BALL MACROY D-4, D-2	EA
60294	PAN HD SCR SLOT M3X10MM 304SS	EA	61273	CHECK VLV SD4-PVC/PVDF-NPT DIS	EA
60296	STROKE CONTROL KNOB KIT	EA	61274	CHECK VLV SD4-PVC/PVDF-NPT SUC	EA
60395	WORM-GEAR-SHAFT 10:1 56C	EA	61275	SPRING, LEE LC-016C-8-HAST-C	EA
60396	WORM-GEAR-SHAFT 20:1 56C	EA	61277	CHKVLVS SLURRY G6,7 KIT	EA
60397	WORM-GEAR-SHAFT 40:1 56C"G	EA	61300	INDUCTIVE SWITCH CABLE	EA
60443	SIDE COVR OBSOLETE USE H60767	EA	61302	VALVE BODY & GUIDE D15.9 316L	EA
60444	STROKE ADJ (H60768)INS OBSOLET	EA	61303	COUPLING 1 BSP X 3/4 NPT 316	EA
60536	HEAD ACRYLIC GB40	EA	61304	SUC CHECK ASSY G6 316 KIT	EA
60618	DIAPHRAGM D82 LE 40 GYLON	EA	61305	HEAD BLEED PORT PVC GB40	EA
60624	DIAPHRAGM GB60 GYLON	EA	61306	HEAD BLEED PORT POLY PRO GB40	EA
60628	DIAPHRAGM CAP GB40 PVC	EA	61307	HEAD BLEED PORT PVDF GB40	EA
60629	DIAPHRAGM CAP GB40 POLYPRO	EA	61316	BALL SEAT 3/8 BALL CA-20	EA
60630	DIAPHRAGM CAP GB40 PVDF	EA	61319	HEX HD SCR M8X140MM LG 304SS	EA
60631	DIAPHRAGM CAP GB40 316SS	EA	61377	DIAPHRAGM HEAD BLK POLY SD2	EA
60632	SUPPORT NUT GB40 304SS	EA	61378	MALE CONN 1/16 NPTM X1/8 TUBE	EA
60633	DIAPHRAGM CAP GB60 PVC	EA	61379	MODIFY STUD 1/4 X 1-3/8LG	EA
60634	DIAPHRAGM CAP GB60 POLYPRO	EA	61380	ADAPTER DOUBLE DIAPH MACD2.0	EA
60635	DIAPHRAGM CAP GB60 PVDF	EA	61381	DIAPH MACROY D2 MODIFY DD	EA
60636	DIAPHRAGM CAP GB60 316SS	EA	61386	DIAPHRAM SEAT RING DD	EA
60637	SUPPORT NUT GB60 304SS	EA	61395	ELBOW 1" MPT X 1" BARB PVDF	EA
60638	DIAPH CAP GB80 PVC (60170)	EA	61396	ELBOW 1/2" MPT X 1/2" BARB PVDF	EA
60639	DIAPH CAP GB80 POLYPRO (60160)	EA	61407	DE-GASSING VALVE BODY PVC	EA

Series G Parts by Number

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Part Number	Description	Units	Part Number	Description	Units
61408	DE-GASSING SEAT INSERT PVC	EA	435003542	HEX HD SCR M8 X 35MM Z PL	EA
61409	DE-GASSING BALL STOP PVC	EA	435003565	HEX HD SCR M8X 90MM LG 304SS	EA
61410	DE-GASSING LIFT PIN HASTC22	EA	4350035785	HEX HD SCR M10 X 75MM LG 304	EA
61411	DE-GAS VAL ASSY PVC D7/D8/G5	EA	4350036035	HEX HD SCR M12 X 130MM 304SS	EA
61412	UNION END 3/4 NPTF PVC	EA	4350071284	SOC SET SCR DOG PT M10X45MM ST	EA
61413	O' RING 2-015 VITON	EA	4350071334	SOC SET SCR DOG PT M10X70MM ST	EA
61414	DE-GASSING ADAP PVC 1" BSP	EA	4350071374	SOC SET SCR CUP PT M10X90MM	EA
61415	WORM-GEAR-SHAFT 14:1 56C	EA	4350117100	SELF-TAPPING TH'D INSERT M10	EA
61421	DEGASSING VALVE	EA	4370000140	BALL 14MM CERAMIC AD995	EA
61422	SENSOR ADAPTER STR COUNTING	EA	4370000169	BALL D15.9 GLASS (BOROSILICATE	EA
61425	DE-GASSING ADAP PVC 1-1/2 BSP	EA	4380051062	O-RING VITON	EA
61426	HEAD BLEED PORT PVC GB60	EA	60030106071	BALL GUIDE PVC	EA
61439	SEAT 9/32 BALL CA20	EA	60240137073	SEAT POLYETHYLENE 1" BALL	EA
62000	BASE MACROY D 3-A	EA	1600273192N	MALE ECCENTRIC 6MM S.L. - N/A	EA
62001	DRIVE HOUSING MACHINED FD	EA	2502110067N	SEAL SIDE COVER SD	EA
62002	LOCKING KNOB MACROY FD 316	EA	3701310039N	OBSOLETE SEE 37013100039	EA
62003	STROKE KNOB MACROY FD 316SS	EA	4380024051N	O-RING 102MM ID 4MM THICK	EA
62009	STROKE SCREW COVER REWORK	EA	5203092085N	GEAR 10:1 MACROY D - N/A Must purchase Drive	EA
62013	DIAPHRAGM CAP 40 316SS 3A PUMP	EA	5203093085N	GEAR 20:1 MACROY D - N/A Must purchase Drive	EA
62014	LE ADAPTOR SD7/8, 3A PUMP	EA	5203094085N	GEAR 40:1 MACROY D - N/A Must purchase Drive	EA
62019	BALL GUIDE 5/8 WITH 1" T/C	EA	H60767	SIDE COVER GB	EA
62020	SEAT 5/8 BALL WITH 1" T/C	EA	H60768	ADJUST SCREW GB	EA
62021	LIQUID END SD 7/8 3-A	EA	RPM019	ROUTINE MAINT KIT GB40 POLYPRO	EA
70003	MOLDED CONNECTING ROD DMR PART-N/A	EA	RPM020	ROUTINE MAINT KIT GB60 POLYPRO	EA
70022	G KNOB STICKER(SEE69004)	EA	RPM021	ROUTINE MAINT KIT GB80 POLYPRO	EA
70066	STROKE ADJUST KNOB GB	EA	RPM022	ROUTINE MAINT KIT GB40 PVC	EA
70067	VENT W/DIP STICK	EA	RPM023	ROUTINE MAINT KIT GB60 PVC	EA
40215010	VALVE CLAMP 304SS	EA	RPM024	ROUTINE MAINT KIT GB80 PVC	EA
210696016	VAL BODY & GUIDE (REWORK)	EA	RPM025	ROUTINE MAINT KIT GB40 PVDF	EA
210696071	CARTRIDGE BODY DOUBLE B40 PVC	EA	RPM026	ROUTINE MAINT KIT GB60 PVDF	EA
210760016	HEAD 316 GB40	EA	RPM027	ROUTINE MAINT KIT GB80 PVDF	EA
210761016	HEAD 316 GB60	EA	RPM028	ROUTINE MAINT KIT GB40 G5 316	EA
240137016	SEAT 1" BALL 316SS	EA	RPM029	ROUTINE MAINT KIT GB60 316SS	EA
440090078	POPPET, PVDF	EA	RPM030	ROUTINE MAINT KIT GB80 316SS	EA
450128116	CHECK VALVE BODY 1"NPT 316	EA	RPM045	RPM KIT G5 SG5 PP/PVC/ACRYLIC	EA
450420016	COUPLING 1 BSP X 1/2 BSP 316	EA	RPM046	RPM KIT G5 SG5 PVDF	EA
800123026	SPRING, HASTELLOY C	EA	RPM047	RPM KIT G5 SG5 316SS	EA
920064071	BALL STOP B40 PVC	EA	RPM048	RPM KIT G6 SG6 PP/PVC/ACRYLIC	EA
980358062	SUPPORT NUT D82 LE 40	EA	RPM049	RPM KIT G6 SG6 PVDF	EA
980366071	D.D. INTER RING PVC GB40	EA	RPM050	RPM KIT G6 SG6 316SS	EA
980367071	D.D. SPACER PVC GB40	EA	RPM051	RPM KIT G7 SG7 PP/PVC/ACRYLIC	EA
980368071	D.D. INTER RING PVC GB60	EA	RPM052	RPM KIT G7 SG7 PVDF	EA
980369071	D.D. SPACER PVC GB60	EA	RPM053	RPM KIT G7 SG7 316SS	EA
2240173078	SEAT 5/8 PVDF	EA	RPM099	RPM KIT D2/SD2 PVC / PVDF	EA
2530046062	STROKE SCALE	EA	RPM101	RPM KIT D2/SD2 316SS	EA
3050583022	CHECK VALVE D25 ASSY 316SS	EA	RPM102	RPM KIT D4/SD4 PVC / PVDF	EA
3050629007	COMP BODY/SEAT/ORING/BALL	EA	RPM104	RPM KIT D4/SD4 316SS	EA
3050629008	CHECK VALVE D25 ASSY PVDF	EA	RPM105	RPM KIT D8/SD8 PVC	EA
3050629009	COMP BODY/SEAT/ORING/BALL	EA	RPM106	RPM KIT D8/SD8 PVDF	EA
3050629500	SEAT, BALL, SEAL KIT - G6/7	EA	RPM107	RPM KIT D8/SD8 316SS	EA
3050629700	SEAT,O-RING,BALL D25 PVDF	EA	RPM126	RPM KIT G5 SG5 POLYMER CHKVLVS	EA
3050870007	CHK VALVE DN 15 PVC	EA	RPM134	RPM KIT G51X0002	EA
3050870008	CHECK VALVE D15.9 ASSY PVDF	EA	RPM135	RPM KIT D7/SD7 PVC	EA
3050876602	SS CHK VALV USE IN HSE COMPON	EA	RPM136	RPM KIT D7/SD7 PVDF	EA
3050879500	SEAT, BALL & O-RING KIT GB	EA	RPM137	RPM KIT D7/SD7 316SS	EA
3050879700	SEAT,O-RING,BALL D15.9 PVDF	EA	RPM161	RPM KIT D2/SD2 PVC / PVDF D.D.	EA
3050976090	DIAPHRAGM ASSY GB60 POLYPRO	EA	RPM162	RPM KIT D2/SD2 316SS D.D.	EA
3050976110	DIAPHRAGM ASSY G5 POLYPRO	EA	RPM163	RPM KIT D4/SD4 PVC / PVDF D.D.	EA
3050976120	DIAPHRAGM ASSY GB40 316	EA	RPM164	RPM KIT D4/SD4 316SS D.D.	EA
3050976130	DIAPHRAGM ASSY GB40 PVDF	EA	RPM173	RPM KIT D4 H2SO4 NPT CONN	EA
3050976230	DIAPHRAGM ASSY GB60 PVDF	EA	RPM174	RPM KIT D4 H2SO4 TUBING CONN	EA
3050976320	DIAPHRAGM ASSY GB60 316	EA	RPM175	RPM KIT G5 D7 SG5 SD7 H2SO4	EA
4040009012	FLAT WASHER 3/8 Z PLT	EA	RPM176	RPM KIT G6 SG6 POLYMER CHKVLVS	EA
4040107231	TRUARC RET RING 5160-66 - N/A	EA	RPM178	ROUTINE MAINT KIT SD71X0001	EA
4050018119	HEX HD SCR 3/8-16X1 GR5 ULTRA	EA	RPM183	RPM KIT D8 H2SO4	EA
4070014172	BALL 5/8 316SS	EA	RPM185	RPM KIT FD7 SEAT,BALL,GASKET	EA
4070014173	BALL 5/8 CA20	EA	RPM194	RPM KIT G6 SG6 H2SO4	EA
4070014233	BALL 1" CA20	EA	RPM196	RPM KIT SD4 & SD2 POLYMER	EA
4070152010	GEAR OIL EP-95, QUART CAN	QT	RPM203	RPM KIT G7 H2SO4	EA
4070324030	SD GEAR OIL	QT	RPM210	RPM KIT D8/SD8 POLYMER	EA
4080068135	O-RING 2-123 VITON A	EA	RPM211	RPM KIT D7/SD7 POLYMER	EA
4080095371	O-RING PARKER 2-246 BUNA N	EA	RPM212	RPM KIT D4/SD4 SLURRY	EA
4090116040	BEARING CONE - TIMKEN LM11949	EA	RPM219	RPM KIT G6 SG6 316SS SLURRY	EA
4090116050	BEARING CUP - TIMKEN LM11910	EA	RPM220	RPM KIT G7 SG7 316SS SLURRY	EA
4099994000	BEARING SINGLE ROW SKF# 6303 - N/A	EA	RPM221	RPM KIT G7 SG7 POLYMER CHKVLVS	EA
4320236038	UNION NUT 1/2" PVC	EA	S60654	CONNECTING ROD GB	EA
4320236058	UNION NUT 1" PVC	EA			
4320350008	UNION END METRIC SOC 25X32PVC	EA			
4320350028	UNION END METRIC SOC 15X20PVC	EA			
4340009002	SPRING LOCKWASHER 8MM SS	EA			
4340009095	SPRING LOCKWASHER 12MM 18-8SS	EA			
4340055073	FLAT WASHER M12 REG 304SS	EA			
4350000042	HEX NUT M8 CLASS 8 STAINLESS S	EA			
4350001622	HEX HD SCR M8X 16MM LG Z PL	EA			
4350001655	HEX HD SCR M8-1.25X110 304SS	EA			
4350001732	HEX HD SCR M10 X 25MM STL	EA			
4350003473	SOC HD SCR M8 X 25MM ZINC PLT	EA			

SECTION III
CONTROLLERS
&
ACCESSORIES

Controllers



Conductivity

Liquitron™ DC4000 Series

DC4000 Microprocessor-Based, Cooling Tower/boiler conductivity controller with four [4] programmable inhibitor feed options, 4-20 mA (non-isolated) recorder output. 0 - 20,000 µS /cm control range.

Voltage	Voltage	Frequency	Plug
01	115VAC	50-60 HZ	No power cord, PG-9 connectors
02	230VAC	50-60 HZ	No power cord, PG-9 connectors
03	115VAC	50-60 HZ	No power cord, 1/2" NPT Plugs
04	230VAC	50-60 HZ	No power cord, 1/2" NPT plugs
1	115 VAC*	50-60 HZ	USA Plug
2	230 VAC*	50-60 HZ	USA Plug
3	220-240 VAC*	50-60 HZ	DIN Plug
5	240-250 VAC*	50-60 HZ	UK Plug
6	240-250 VAC*	50-60 HZ	AUST/NZ Plug
Probe and Manifold			
0	No Probe/Manifold		
1	Cooling Tower Carbon Probe and 3/4" Fslip Sch 80 PVC Tee with 10 ft (3m) Cable Assembly (Manifold # 34758)		
2	Cooling Tower Carbon Probe and Manifold Assembly with Flow Switch, Sample Valve and 10ft (3m) Cable Assembly (Manifold # 34752)		
3	Boiler Probe Assembly with 1" Cross and 1/2" Conduit Tee (Manifold # 34761)		
DC4000 -	01 -	0	

NOTES:

*+ All options listed with a part number above are available for purchase separately.

* 115VAC Units are provided with one 6 ft. (2m) grounded power cord and plug, and two [2] 1 ft. (30 cm) output power cords with grounded receptacles for controlled devices.

230VAC Units are provided with 6 ft. (2m) grounded power cords and plug, and throughput connectors for hardwire connection of controlled devices.

A CE approved controller must be requested by adding the prefix "CE". Example: CE-DC4000-X.

For support:



Conductivity

Liquitron™ DC4500 Series

DC4500 Microprocessor-Based, Cooling Tower conductivity controller with dual biocide, adjustable lockout timer, prebleed, four [4] programmable inhibitor feed options, and 4-20 mA (non-isolated) recorder output. 0 - 20,000 µS /cm control range.

	Power Supply		Voltage			
	1	115 VAC				
	2	220 - 250 VAC				
		Voltage	Description	Frequency	Plug	
	0	PG-9 Connectors		50-60 HZ	No Power Cord	
	1	115 VAC*		50-60 HZ	USA Plug	
	2	230 VAC*		50-60 HZ	USA Plug	
	3	220-240 VAC*		50-60 HZ	DIN Plug	
	5	240-250 VAC*		50-60 HZ	UK Plug	
	6	240-250 VAC*		50-60 HZ	AUST/NZ Plug	
		Pump Control Wiring				
	0	No Pump Output Power Cables (Pump Hardwired)				
	1	Three (3) Pump Output Power Cables (115VAC recepticles)				
	2	Three (3) Pump Signal Cables (Four [4] Conductor with 4-pin Connector)				
	3	Three (3) Pump Signal Cables (Five [5] Conductor with 5-pin Connector)				
			Probe and Manifold			
		0	No Probe/Manifold			
		1	Cooling Tower Carbon Probe and 3/4" Fslip Sch 80 PVC Tee with 10 ft (3m) Cable Assembly (Manifold # 34758)			
		2	Cooling Tower Carbon Probe and Manifold Assembly with Flow Switch, Sample Valve and 10ft (3m) Cable Assembly (Manifold # 34752)			
		3	Cooling Tower Carbon Probe and Manifold Assembly with Flow Switch, Sample Valve and 10ft (3m) Cable Assembly (Manifold # 35657) – Includes ¾" FNPT Connections			
DC4500 -	1	0	0	A -	0	

NOTES:

*+ All options listed with a part number above are available for purchase separately.

* 115VAC Units are provided with one 6 ft. (2m) grounded power cord and plug, and four [4] 1 ft. (30 cm) output power cords with grounded receptacles for controlled devices.

230VAC Units are provided with 6 ft. (2m) grounded power cords and plug, and throughput connectors for hardwire connection of controlled devices.

For support:



Conductivity Controller - Accessories		
DC4500 Part No.	DC4000 Part No.	Description
35659	35659	Carbon Probe & 3/4" NPT Sch 80 PVC Tee
34758	34758	Carbon Probe & 3/4" Fslip Sch 80 PVC Tee
35657	35657	Carbon Probe & Manifold Assembly, NPT
34752	34752	Carbon Probe & Manifold Assembly
34659	34659	Carbon Probe & Cable
32623	32623	Carbon Probe with Tee & 4-Pin Connector
34565	34565	Flow Switch Assembly with 3/4" Fslip Sch 80 PVC Tee
48088	48088	Flow Switch Assembly with 3/4" Fslip Sch 80 PVC Tee w/
36130	36130	Flow Switch Assembly with 3/4" NPT Sch 80 PVC Tee
36131	36131	Flow Switch Assembly, Threaded
37505	37505	Float Assembly (Techtron)
37586	37586	Tee, Flow Switch Assembly NPT
35674	35674	Tee, Flow Switch Assembly
34572	34572	Flow Switch & 3/4" Fslip
34746	34746	Sample Valve with 3/4" Fslip Sch 80 PVC Tee (Horizontal
34747	34747	Sample Valve with 3/4" Fslip Sch 80 PVC Tee (Vertical
34749	34749	Union Kit, PVC (Union & 2 Sleeves)
37535-20	37535-20	20 FT Extension Cable Assembly, Carbon Probe
37535-50	37535-50	50 FT Extension Cable Assembly, Carbon Probe
37535-100	37535-100	100 FT Extension Cable Assembly, Carbon Probe
-	34761	Boiler Probe Assembly with 1" Cross & 1/2" Conduit

Replacement Parts for Controller Accessories		
DC4500 Part No.	DC4000 Part No.	Description
32829	32829	Clamp, Pipe
32838	32838	Pin, Retaining for Tee
34541	34541	Standoff, Pipe
32383	32383	Tee for 32776 Carbon Probe
35660	35660	Tee Assembly, 3/4" NPT PVC (for carbon probe)
34668	34668	Tee Assembly, 3/4" Fslip PVC (for carbon probe)
-	34759	Boiler Probe
-	34760	Cross, 1"
-	34796	Conduit Box Assembly
-	35058	Nipple, 1/2" Conduit
-	35059	Fitting, 1/2" Conduit
37435	37435	O-Ring, Union
35666	35666	Sample Valve Tee Assembly, 3/4" NPT Vertical

CONTROLLERS

Conductivity

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DC4000 - Boiler Accessories		
DC4000 Part Number	Description	
35201	Flow Control Valve 1/2" - 800 psi	
35202	Flow Control Valve 3/4" - 800 psi	
35206	Orifice Union	Obsolete
35207	Orifice Union w/Plates (no holes)	
35208	Orifice Union w/Plates (pre-drilled)	
35210	Orifice Plates (no holes)	Obsolete
35211	Orifice Plates (pre-drilled)	
35213	Worcester 10-36 Actuator	Obsolete
35216	Worcester 10-36 Actuator with 1/2" valve	Obsolete
35217	Worcester 10-36 Actuator with 3/4" valve	Obsolete
35218	Worcester 10-75 Actuator with 1/2" valve	Obsolete
35219	Worcester 10-75 Actuator with 3/4" valve	Obsolete

Conductivity Controller - Spare Parts			
DC5500 Part No.	DC4500 Part No.	DC4000 Part No.	Description
25930	25930	25930	Cap, 4-Pin Jack, Yellow
25957-1	25957-1	25957-1	Cord Clamp
25990	25990	25990	Connector Assembly
36810	36810	36810	Dowel
30588	30588	30588	Label, Outside Junction Panel (LMI)
30749	30749	30749	Power Cord, 115V - '1' Cord
30752	30752	30752	Power Cord, 230V - '3' Cord, DIN
30754	30754	30754	Power Cord, 230V - '6' Cord, AUST
31571	31571	31571	Clamp, Cord (PG-9)
31617	31617	31617	Cover
32094	32094	32094	Label, Housing Cover (water drop)
32186	32186	32186	Screw, 4-40 x .37
32187	32187	32187	Nut, 4-40 Flush
32209	32209	32209	Latch
32211	32211	32211	Cap, .125 x .38
32352	32352	32352	O-Ring, Sponge
32395	32395	32395	Screw
33566	33566	33566	Solder Lug Terminal
34074	34074	34074	Gasket, Foam
34088	34088	34088	Cover Utility Box
-	-	36525	Front Panel Assembly
34716	34716	34716	Standoff
34735	34735	34735	Ground Wire Assembly
-	-	34710	I/O Board Assembly
-	-	34675	Housing, U.S.A.
-	-	34931	Label, External Plugs
35712	35712	35712	Fuse, 4A, Time Delay

pH / ORP

Liquitron™ DP5000 & DR5000 Series

DP5000 Microprocessor-Based, pH controller, wall mount, on/off or proportional pump control, limit timers, hi/low alarm, low level and flow switch inputs, custom backlit LCD display.

DR5000 Microprocessor-based ORP controller, wall mount, on/off or proportional pump control, limit timers, hi/low alarm, low level and flow switch inputs, custom backlit LCD display.

	Voltage		Frequency		Plug		
	1	115 VAC*	50/60 Hz		USA Plug		
	2	230 VAC*	50/60 Hz		USA Plug		
	3	220-240 VAC*	50/60 Hz		DIN Plug		
	5	240-250 VAC*	50/60 Hz		UK Plug		
	6	240-250 VAC*	50/60 Hz		AUST/NZ Plug		
		Pump Control					
		A	On/Off Output				
		B	Proportional Output (non-Roytronic pumps)				
		C	Proportional Output (for Roytronic Series pumps)				
			Recorder Output				
	0		No Probe/Manifold				
	1		4-20 mA Recorder Output (isolated) (replacement part 37830 - see note below)				
DP5000 -	1	A -	0				

To complete your DP5000 or DR5000 installation, select either:

1. Submersible probe and cable assembly, or
2. In-line probe, cable assembly, and tee assembly.

See the following page for more details

NOTES:

*+ All options listed with a part number above are available for purchase separately.

* 115VAC & 220 VAC Proportional Units are provided with one [1] 6 ft. (2m) grounded power cord and plug, and two [2] 10 ft. (3 cm) output cables for direct connections to LMI Series "7" and "9" pumps.

115VAC On/Off Units are provided with one 6 ft. (2m) grounded power cord and plug, and two [2] 1 ft (30cm) output power cords with grounded receptacles for pumps.

230VAC Units are provided with 6 ft. (2m) grounded power cords and plug, and throughput connectors for hardwire connection of controlled devices.

For DR Controller support:



For DP Controller support:



To complete your DP5000 or DR5000 installation, select either

- 1) submersible probe and cable assembly or
- 2) in-line probe, cable assembly and tee assembly.

pH / ORP Controller - Accessories

DP5000 Part No.	DR5000 Part No.	Description	
32820	-	Flat Surface Combination [pH] Electrode, In-Line PVC Body	
-	33369	Flat Surface Combination [ORP] Electrode, In-Line PVC Body	
32821	-	Flat Surface Combination [pH] Electrode, Submersible PVC Body	
-	33368	Flat Surface Combination [ORP] Electrode, Submersible PVC Body	
32822	-	Cable Assembly with Temperature Compensation for In-Line Mounting (compatible with Electrode p/n 32819)	
32823	-	Cable Assembly with Temperature Compensation for Submersible Mounting	
32824	-	Cable Assembly with Temperature Compensation for In-Line Mounting (compatible with Electrode p/n 32820)	
33370	33370	Cable Assembly, Non-Temperature Compensated, install kit with a 3/4" NPT PVC "T" for In-Line Mounting (Compatible with Electrodes 32819 [pH])	
33371	33371	Cable Assembly, Non-Temperature Compensated, install kit with a 3/4" NPT CPVC "T" for In-Line Mounting (Compatible with Electrodes 32820 [pH] or 33369 [ORP])	
33372	33372	Cable Assembly, Non-Temperature Compensated, for Submersible Mounting (Compatible with Electrodes 32819 & 32821 [pH])	
34495	-	Cable Assembly with Temperature Compensation for In-Line Mounting (Compatible with Electrode 32819 & 32820 [pH only])	
34624	34624	Tee Assembly, without TC (F Slip) (Compatible with 32820 electrode [pH] or 33369 electrode [ORP])	
34625	-	Tee Assembly, with TC (Compatible with 32820 electrode [pH only])	Obsolete
34665	34665	Tee Assembly, without TC (Compatible with 32819 electrode [pH])	
34666	-	Tee Assembly, with TC (Compatible with 32819 electrode [pH only])	
35662	-	Tee Assembly, pH with TC, 3/4" NPT	Obsolete
33217	33217	Pre-Amp, pH / ORP	
33286-25	33286-25	25' Cable Assembly (only), for Pre-Amp to Controller	
33286-50	33286-50	50' Cable Assembly (only), for Pre-Amp to Controller	
33286-100	33286-100	100' Cable Assembly (only), for Pre-Amp to Controller	
37830	37830	4-20 mA Circuit Board Assembly	
34565	34565	Flow Switch Assembly with 3/4" Fslip Sch 80 TVC Tee	
36130	36130	Flow Switch Assembly with 3/4" NPT Sch 80 PVC Tee	
34561	34561	Switch Assembly	
37505	37505	Float Assembly (Techtron)	
37586	37586	Tee, Flow Switch Assembly NPT	
34746	34746	Sample Valve with 3/4" Fslip Sch 80 TVC Tee (Horizontal Mounting)	
34747	34747	Sample Valve with 3/4" Fslip Sch 80 TVC Tee (Vertical Mounting)	
34749	34749	Union Kit, PVC (Union & Two [2] Sleeves)	
34751	34751	pH/ORP Manifold Assembly (Compatible with 32820 electrode [pH] or 33369 [ORP])	Obsolete

pH / ORP Controller - Spare Parts		
DP5000 Part No.	DR5000 Part No.	Description
25957-1	25957-1	Cord Clamp
28898	28898	Dowel
30588	30588	Label
30749	30749	Power Cord, 115V - '1' Cord
30752	30752	Power Cord, 230V - '3' Cord
30754	30754	Power Cord, 230V - '6' Cord
31571	31571	Clamp, Cord (PG-9)
31576	31576	Standoff
32094	32094	Label
32186	32186	Screw, 4-40 x .37
32187	32187	Nut, 4-40 Flush
32209	32209	Latch
32211	32211	Cap, .125 x .38
32352	32352	O-Ring, Sponge
32395	32395	Screw
33636	33636	4-Pin Cable Assembly
34074	34074	Gasket, Foam
34092	-	Switch, Membrane
-	34642	Switch, Membrane
37524	-	Front Panel Assembly
-	37526	Front Panel Assembly
34200	34200	PCB Assembly
34270	34270	I/O Board Assembly
34329	34329	BNC Cable Assembly
34330	34330	Ribbon Cable Assembly
34691	34691	Housing
34716	34716	Standoff
34930	34930	Label, Terminal Cover
37435	37435	O-Ring, Union

Flow Switch & Time Switch

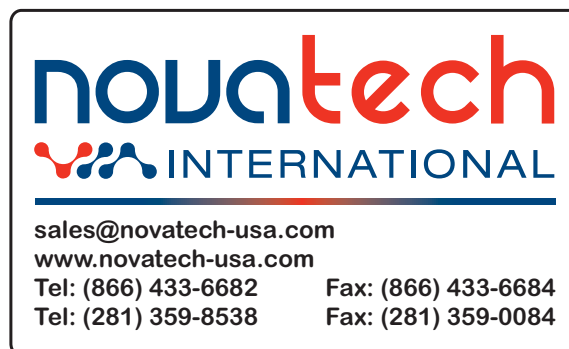
Liquitron™ FS5000 Series Flow Switch

FS5000	Flow Switch Controller for use in applications that require flow/no flow control of metering pumps or other devices. Includes flow switch with 3/4" FSLIP fittings, three (3) 115 VAC receptacles on with flow, one (1) 115 VAC service receptacle, and 0.75 GPM flow activation. Power indicator light, flow indicator light and test switch included.
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Liquitron™ FS5000 Series Flow Switch

33424	This compact digital time switch is capable of operating two pumps or one pump and one valve for simultaneous operation of feed and bleed. It provides precise timing with the flexibility of daily and/or weekly programming. Simple and fast setting by means of push buttons and display prompts.
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