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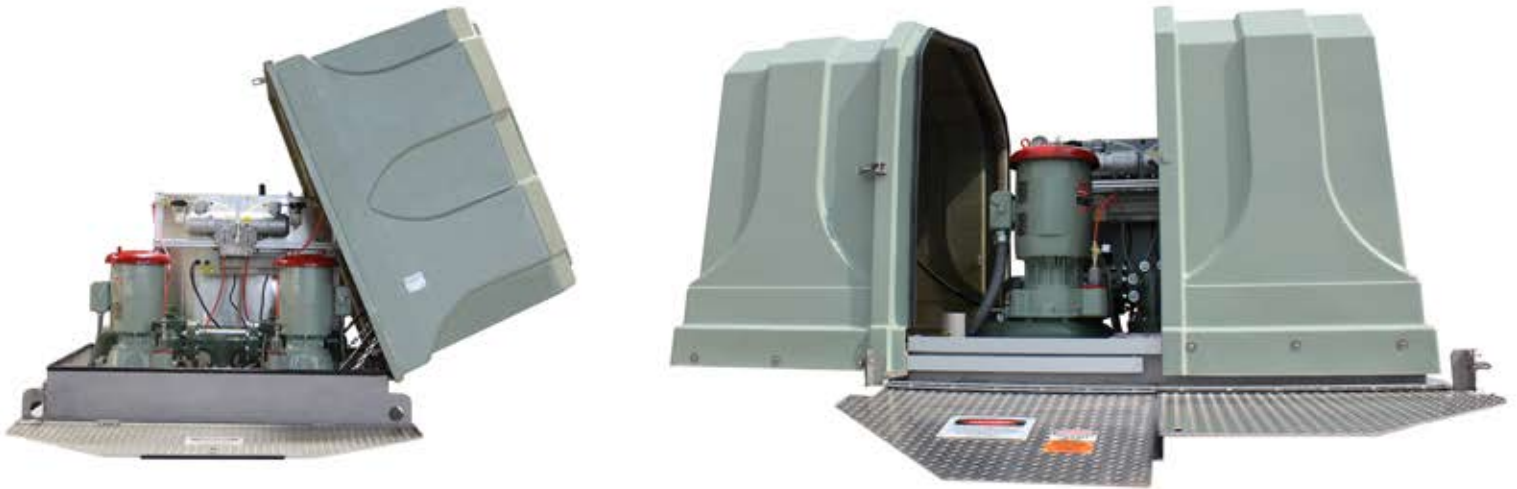


RETROFIT

All the Parts You Need... Before You Need Them!

PARTS REFERENCE GUIDE

FOR
EVERLAST®
Wet Well Mounted Pump Stations



Your Helpful Parts Resource
For S&L Product code EV
(First Two Numbers of Station Serial Number)

Smith & Loveless, Inc.
www.smithandloveless.com

ENGINEERING DATA



Smith &
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14040 Santa Fe Trail
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After Market
Parts Price Book
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After Market Parts Catalog

EVERLAST®

Wet Well Mounted Pump Stations

S&L Product codes: EV (First Two Letters of Station Serial Number)

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Wet Well Mounted Pump Stations

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(15-04_ _ _ for Modified FX Stations)

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MECHANICAL, PIPING, & PARTS

PUMP PARTS

Includes: shaft diameter, impeller, maximum diameter, Suction Side - Diameter Eye, front head, pump stand, volute, gaskets, motor adapter, impeller bolt, impeller washer.

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ELECTRICAL COMPONENTS

CONTACTORS

Not descriptive enough. Ask customer if they mean contact terminal block, Auxiliary Relay, Starter, etc.

DISPLAY FUSE

PART DESCRIPTION	PART #
Fuse, FNQ, 1 AMP	4L371A
Fuse, FNQ-R, ½ AMP	4L371T
Fuse, FNQ, 5 AMP	4L3T1E

FLOAT (DISPLACEMENT) SWITCHES, BACKUP

Serve as Backup to the Submersible Pressure Transducer

PART DESCRIPTION	PART #
Float Switch (Normally Open Blue), 30 ft. cord	4L291A
Float Switch (Normally Closed Red), 30 ft. cord	4L291B
Float Switch (Normally Open Blue), 45 ft. cord	4L291C
Float Switch (Normally Closed Red), 45 ft. cord	4L291H
Mercury-Free (Normally Open, Normally Closed) 40ft cord	4L291F

FLOAT SWITCH, CORD CONNECTOR

PART DESCRIPTION	PART #
Cord Connector, Float Switch Adjustment	5L57C

GROUND FAULT CIRCUIT INTERRUPTER (GFCI) RECEPTACLES

PART DESCRIPTION	PART #
GFCI Receptacle, 15 Amp, Color: Ivory	5L269C
Receptacle Box, Aluminum	5L98A

HEATER

PART DESCRIPTION	PART #
Heater, Strip/Panel Mount with Thermostat – UL Listed 120 Volt 500 Watt	4L364A
Temperature Transmitter	5L350AA

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ELECTRICAL COMPONENTS (CONTINUED)

PHASE MONITOR RELAYS

PART DESCRIPTION	PART #
Phase Monitor, Voltage: 190 to 270	4L336A
Phase Monitor, Voltage: 430 to 480	4L336B
Phase Monitor, Voltage: 208 to 240	4L336X

POWER SUPPLY – 24 VOLT

Powers all 24 volt panel components

PART DESCRIPTION	PART #
Power Supply, 24 VDC (2.3 Amp rating)	4L637L

PRESSURE TRANSDUCERS/SENSORS, SUBMERSIBLE

(Submersible Pressure Transducer hangs down from the pump station and into the wet well, in addition to the float switches used for back-up. Both are used for wet well level sensing.)

PART DESCRIPTION	PART #
0-7.5 PSI, Submersible Pressure Transducer – 30' Cord (<i>Replaces 4L563A</i>) (<i>CURRENT STYLE</i>) (<i>Replaces 4L563C</i>).	4L563J

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RELAYS

PART DESCRIPTION	PART #
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Relay, Vacuum Pump Contactor, VC1 & VC2	4L862A
Relay, Time Delay (for Pump Failure, Prime Failure, Time Delay)	4L304J
Relay, 24 VDC, Din Rail Mounted (Double Pole, Double Throw)	4L571D
Relay, 24 VDC, Din Rail, SPST	4L571A
Relay, Intrinsically Safe	4L374
WAVESTART™ Operating Module	4L264E

RUNNING TIME METER-USED WITH PUMPLOGIX & RELAY LOGIC

PART DESCRIPTION	PART #
Running Time Meter (Old) Square face, but fits through round hole NEMA 12	4L198A
Running Time Meter (Current) Rectangular-NEMA 3R	4L198C

SOLENOID VALVE, 2-WAY LARGE PORT

PART DESCRIPTION	PART #
2-Way Solenoid Valve (5/16" orifice) Cannot be used with SONIC START® STREAMLINE™	1L545B conduit connection mounted through panel & backpan
2-Way Solenoid Valve for the FORMULA X® (Old Style arrangement with solenoid next to Float Check Valve, Ref. 87B351)	1L545A
WAVESTART™ Solenoid Valve/Dome Assembly (New Style arrangement)	87B728

SWITCHES

PART DESCRIPTION	PART #
Switch, 3-POS Operator Selector, Spring Return Left, HOA (Hand-Off-Auto)	4L13C
Switch, Limit for Intrusion Alarm	5L241
Actuator, for use with 5L241	5L241A
Switch, 2-POS Operator Selector, Keyed	4L366A
Switch, 2-POS Operator Selector	4L71M
Switch, 3-POS Operator Selector, Spring Return Left, HOA	4L13C
Float Switch (Normally Open Blue), 30 ft. cord	4L291A
Float Switch (Normally Closed Red), 30 ft. cord	4L291B
Float Switch (Normally Open Blue), 45 ft. cord	4L291C

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Mercury-Free (Normally Open, Normally Closed) 40 ft. cord	4L291F
Float Switch (Normally Closed Red), 45 ft. cord	4L291H

TRANSFORMER

DESCRIPTION	PART #
2 KVA, 240/480 TO 120/240	4L402A
3 KVA, 240/480 TO 120/240	4L402B
3 KVA, 208 TO 120/240	4L402D
5 KVA, 240/480 TO 120/240	4L402E
5 KVA, 208 TO 120/240	4L402EA

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ELECTRICAL COMPONENTS (CONTINUED)

Standard on Series 1000/2000/5000

NEMA RATED STARTERS – 4L421*

Three Phase Motor Circuit Breakers – 4L402, 4L164, 4L

MOTOR HORSEPOWER	208 VOLTS		230 VOLTS		460 VOLTS	
	STARTER	CIRCUIT BREAKER	STARTER	CIRCUIT BREAKER	STARTER	CIRCUIT BREAKER
3/4 & 1	4L421A	4L202B	4L421A	4L202B	4L421A	4L258CA
1½	4L421A	4L202B	4L421A	4L531F	4L421A	4L258CA
2	4L421A	4L202B	4L421A	4L531F	4L421A	4L258CA
3	4L421A	4L202D	4L421A	4L531F	4L421A	4L258CA
5	4L421B	4L202F	4L421B	4L531G	4L421A	4L258CA
7½	4L421B	4L202H	4L421B	4L531A	4L421B	4L258CC
10	4L421C	4L202L	4L421C	4L531A	4L421B	4L258CE
15	4L421D	4L202N	4L421C	4L531B	4L421C	4L258CG
20	4L421D	4L202N	4L421D	4L531C	4L421C	4L258CH
25	4L421D	4L164G	4L421D	4L531C	4L421C	4L258CJ
30	4L421E	4L164G	4L421D		4L421D	4L258CK
40	4L421E		4L421E		4L421D	4L258CL
50	4L421F		4L421E		4L421D	4L164G
60	4L421F		4L421F		4L421E	4L164G
75	4L421F		4L421F		4L421E	
100	SPECIAL ORDER		4L421F		4L421E	

*Call factory for dimensions if replacing older starters

PARTS ORDERING NOTE: If the customer is replacing older starters with new starters (new part numbers listed above), they will also need to purchase new overload coils and auxiliary contacts.

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ELECTRICAL COMPONENTS (CONTINUED)

Standard on Series 3000/4000/5000

IEC RATED STARTERS – 4L915

MOTOR CIRCUIT PROTECTORS – 4L531, 4L164, 4L431

MOTOR HORSEPOWER	208 VOLTS		230 VOLTS		460 VOLTS	
	STARTER PART #	CIRCUIT PROTECTOR PART #	STARTER PART #	CIRCUIT PROTECTOR PART #	STARTER PART #	CIRCUIT PROTECTOR PART #
1½	4L915D	4L531F	4L915D	4L531F	4L915C	4L531E
2	4L915Q	4L531F	4L915D	4L531F	4L915C	4L531E
3	4L915Q	4L531F	4L915Q	4L531F	4L915D	4L531E
5	4L915F	4L531G	4L915F	4L531G	4L915Q	4L531F
7½	4L915G	4L531A	4L915G	4L531A	4L915E	4L531G
10	4L915B	4L531A	4L915H	4L531A	4L915F	4L531G
15	4L915J	4L531B	4L915J	4L531B	4L915G	4L531G
20	4L915K	4L531C	4L915K	4L531C	4L915H	4L531A
25	4L915L	4L164P	4L915K	4L531C	4L915J	4L531A
30	4L915M	4L164P	4L915L		4L915J	4L531B
40	4L915R	4L431C	4L915N		4L915K	4L531C
50			4L515R		4L915K	4L531C
60					4L915L	4L164P
75					4L915M	4L164P
100					4L915R	

REPLACE AUXILLARY CONTACTS WHEN REPLACING THE STARTER

SPECIAL NOTE: Sizing has changed over the years. Call factory for dimensions if not a direct replacement.

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ELECTRICAL COMPONENTS (CONTINUED)

**Standard on Series 3000/4000
NEMA RATED STARTERS – 4L930
MOTOR CIRCUIT PROTECTORS – 4L531, 4L164, 4L431**

MOTOR HORSEPOWER	208 VOLTS		230 VOLTS		460 VOLTS	
	STARTER PART #	BREAKER PART #	STARTER PART #	BREAKER PART #	STARTER PART #	BREAKER PART #
3/4	4L930C		4L930C		4L930C	
1	4L930C		4L930C		4L930C	
1½	4L930B	4L531F	4L930B	4L531F	4L930C	4L531E
2	4L930B	4L531F	4L930B	4L531F	4L930C	4L531E
3	4L930B	4L531F	4L930B	4L531F	4L930C	4L531E
5	4L930E	4L531G	4L930E	4L531G	4L930B	4L531F
7½	4L930F	4L531A	4L930F	4L531A	4L930E	4L531G
10	4L930G	4L531A	4L930G	4L531A	4L930E	4L531G
15	4L930H	4L531B	4L930G	4L531B	4L930G	4L531G
20	4L930H	4L531C	4L930H	4L531C	4L930G	4L531A
25	4L930H	4L164P	4L930H	4L531C	4L930G	4L531A
30	4L930J	4L164P	4L930H	4L164P	4L930H	4L531B
40	4L930J	4L431C	4L930J	4L164P	4L930H	4L531C
50	N/A	N/A	4L930J	N/A	4L930J	4L531C

REPLACE AUXILLARY CONTACTS WHEN REPLACING THE STARTER

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ELECTRICAL COMPONENTS (CONTINUED)

NEMA RATED STARTERS – 4L421*

Three Phase Motor Circuit Breakers – 4L402, 4L164, 4L

MOTOR HORSEPOWER	208 VOLTS		230 VOLTS		460 VOLTS	
	STARTER	CIRCUIT BREAKER	STARTER	CIRCUIT BREAKER	STARTER	CIRCUIT BREAKER
3/4 & 1	4L421A	4L202B	4L421A	4L202B	4L421A	4L258CA
1½	4L421A	4L202B	4L421A	4L531F	4L421A	4L258CA
2	4L421A	4L202B	4L421A	4L531F	4L421A	4L258CA
3	4L421A	4L202D	4L421A	4L531F	4L421A	4L258CA
5	4L421B	4L202F	4L421B	4L531G	4L421A	4L258CA
7½	4L421B	4L202H	4L421B	4L531A	4L421B	4L258CC
10	4L421C	4L202L	4L421C	4L531A	4L421B	4L258CE
15	4L421D	4L202N	4L421C	4L531B	4L421C	4L258CG
20	4L421D	4L202N	4L421D	4L531C	4L421C	4L258CH
25	4L421D	4L164G	4L421D	4L531C	4L421C	4L258CJ
30	4L421E	4L164G	4L421D		4L421D	4L258CK
40	4L421E		4L421E		4L421D	4L258CL
50	4L421F		4L421E		4L421D	4L164G
60	4L421F		4L421F		4L421E	4L164G
75	4L421F		4L421F		4L421E	
100	SPECIAL ORDER		4L421F		4L421E	

*Call factory for dimensions if replacing older starters

PARTS ORDERING NOTE: If the customer is replacing older starters with new starters (new part numbers listed above), they will also need to purchase new overload coils and auxiliary contacts.

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ELECTRICAL COMPONENTS (CONTINUED)

BREAKERS – STANDARD ON SERIES 3000/4000

PART DESCRIPTION	PART #
10, Continuous Amp Rating	4L82RB
15, Continuous Amp Rating	4L82RC
20, Continuous Amp Rating	4L82RD
25 Continuous Amp Rating	4L82RE
30, Continuous Amp Rating	4L82RF
35, Continuous Amp Rating	4L82RG
40, Continuous Amp Rating	4L82RH
50, Continuous Amp Rating	4L82RJ
60, Continuous Amp Rating	4L82RL

BREAKERS – SINGLE POLE STANDARD ON SERIES 1000/2000/5000

PART DESCRIPTION	PART #
7, Continuous Amp Rating	4L673V
10, Continuous Amp Rating	4L673R
15, Continuous Amp Rating	4L673HA
20, Continuous Amp Rating	4L673S
25, Continuous Amp Rating	4L673Z
30, Continuous Amp Rating	4L673QB
35, Continuous Amp Rating	4L673XA
40, Continuous Amp Rating	4L673CA
50, Continuous Amp Rating	4L82J
60, Continuous Amp Rating	4L82L
70, Continuous Amp Rating	4L82M

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MECHANICAL, PIPING, & PARTS

PUMP PARTS	4B2B*1 Pump	4B2D*1 Pump
<i>VERIFY ALL CASTED PARTS WITH FACTORY</i>		
Shaft Diameter	1 $\frac{7}{8}$ "	1 $\frac{7}{8}$ "
Mechanical Seal Kit	H87A28	H87A28
Impeller, CW (Clockwise)	60B265A	60B269A
Impeller, CCW (Counter-Clockwise)	60B265B	60B269B
Maximum Diameter	10 $\frac{1}{8}$ "	10 $\frac{1}{8}$ "
Suction Side - Diameter Eye	4"	4"
Motor Adapter-Also sell S/N NAMEPLATE	60B165A-304	60B165A-304
Suction Piping		
Volute	87B945-304	87B945-304
Front Head	87C1-304 - 4" Suc. Piping 60C156-304 - 6" Suc. Piping	87C1-304- 4" Suc. Piping 60C156-304- 6" Suc. Piping
Mounting Adapter	87B239-304 - 4" Suc. Piping 87B241-304 - 6" Suc. Piping	87B239-304- 4" Suc. Piping 87B241-304 - 6" Suc. Piping
Flange Gasket	11L1A - 4" Suc. Piping 11L1C - 6" Suc. Piping	11L1A - 4" Suc. Piping 11L1C - 6" Suc. Piping
Socket Head Capscrew	6L178B - 4" Suc. Piping 6L178F - 6" Suc. Piping	6L178B - 4" Suc. Piping 6L178F - 6" Suc. Piping
Discharge Pipe	87B957A-304 - 4" piping 87B957B-304 - 6" piping	87B957A-304 - 4" piping 87B957B-304 - 6" piping
Elbow (Between Discharge Pipe & Tee)	2L7A-304 - 4" piping 2L7B-304 - 6" piping	2L7A-304 - 4" piping 2L7B-304 - 6" piping
Tee (Required only on 4" piping)	2L12A-304	2L12A-304
Plug Valve	2L104A-304 - 4" piping 2 req'd 2L148M-304 - 6" piping 1 req'd	2L104A-304 - 4" piping 2 req'd 2L148M-304 - 6" piping 1 req'd
Elbow (Between Plug Valve & Check Valve) 4" standard elbow, 6" reducing elbow	87B242-304 & 87B243-304 - 4" 87B244-304 & 87B245-304 - 6"	87B242-304 & 87B243-304 - 4" 87B244-304 & 87B245-304 - 6"
Check Valve Assembly 4"	56B20A-LH 56B20B-RH	56B20A-LH 56B20B-RH
Check Valve Assembly 6"	56B21A-LH 56B21B-RH	56B21A-LH 56B21B-RH
Rapid Jack Check Valve 4"	H56B18A-LH H56B18B-RH	H56B18A-LH H56B18B-RH
Rapid Jack Check Valve 6"	H56B19A-LH H56B19B-RH	H56B19A-LH H56B19B-RH
Volute Gasket (1/64 & 1/16 thickness available)	60A26 (1/32")	60A26 (1/32")
Impeller Bolt	60A12	60A12
Impeller Washer	60A20	60A20

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MECHANICAL, PIPING, & PARTS (CONTINUED)

PUMP PARTS	4B3B*1	4C2B*1
<i>VERIFY ALL CASTED PARTS WITH FACTORY</i>	Pump	Pump
Shaft Diameter	1 ⁷ / ₈ "	2 ¹ / ₈ "
Mechanical Seal Kit	H87A28	H87A97
Impeller, CW (Clockwise)	60B272A	60B265C
Impeller, CCW (Counter-Clockwise)	60B272B	60B265D
Maximum Diameter	12"	10-1/8"
Suction Side - Diameter Eye	4"	4"
Motor Adapter-Also sell S/N NAMEPLATE	60B165V-304	60B165B-304
Suction Piping		
Volute	60D249-304	87B945-304
Front Head	87D310B-304 – 4" Suc. Piping 87D311B-304 – 4" Suc. Piping	87B286B-304 - 4" Suc. Piping 87B287B-304 – 6" Suc. Piping
Mounting Adapter	87B239-304 - 4" Suc. Piping 87B241-304 – 6" Suc. Piping	87B239-304 - 4" Suc. Piping 87B241-304 – 6" Suc. Piping
Flange Gasket	11L1A – 4" Suc. Piping 11L1C – 6" Suc. Piping	11L1A – 4" Suc. Piping 11L1C – 6" Suc. Piping
Socket Head Capscrew	6L178B – 4" Suc. Piping 6L178F – 6" Suc. Piping	6L178B – 4" Suc. Piping 6L178F – 6" Suc. Piping
Discharge Pipe	87B957A-304 – 4" piping 87B957B-304 – 6" piping	87B957A-304 – 4" piping 87B957B-304 – 6" piping
Elbow (Between Discharge Pipe & Tee)	2L7A-304 – 4" piping 2L7B-304 – 6" piping	2L7A-304 – 4" piping 2L7B-304 – 6" piping
Tee (Required only on 4" piping)	2L12A-304	2L12A-304
Plug Valve	2L104A-304 – 4" piping 2 req'd 2L148M-304 – 6" piping 1 req'd	2L104A-304 – 4" piping 2 req'd 2L148M-304 – 6" piping 1 req'd
Elbow (Between Plug Valve & Check Valve)	87B242-304 & 87B243-304 – 4"	87B242-304 & 87B243-304 – 4"
4" standard elbow, 6" reducing elbow	87B244-304 & 87B245-304 – 6"	87B244-304 & 87B245-304 – 6"
Check Valve Assembly 4"	56B20A-LH 56B20B-RH	56B20A-LH 56B20B-RH
Check Valve Assembly 6"	56B21A-LH 56B21B-RH	56B21A-LH 56B21B-RH
RAPID JACK CHECK VAVLE 4"	H56B18A-LH H56B18B-RH	H56B18A-LH H56B18B-RH
RAPID JACK CHECK VAVLE 6"	H56B19A-LH H56B19B-RH	H56B19A-LH H56B19B-RH
Volute Gasket (1/64 & 1/16 thickness available)	60A28 (1/32")	60A26 (1/32")
Impeller Bolt	60A12	60A12
Impeller Washer	60A20	60A20

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MECHANICAL, PIPING, & PARTS (CONTINUED)

PUMP PARTS	4C2D *1
<i>VERIFY ALL CASTED PARTS WITH FACTORY</i>	Pump
Shaft Diameter	2 1/8"
Mechanical Seal Kit	H87A97
Impeller, CW (Clockwise)	60B269C
Impeller, CCW (Counter-Clockwise)	60B269D
Maximum Diameter	10-1/8"
Suction Side - Diameter Eye	4"
Motor Adapter-Also sell S/N NAMEPLATE	60B165B-304
Suction Piping	
Volute	87B945-304
Front Head	87C1-304 – 4" Suc. Piping 60C156-304 – 6" Suc. Piping
Mounting Adapter	87B239-304 - 4" Suc. Piping 87B241-304 – 6" Suc. Piping
Flange Gasket	11L1A – 4" Suc. Piping 11L1C – 6" Suc. Piping
Socket Head Capscrew	6L178B – 4" Suc. Piping 6L178F – 6" Suc. Piping
Discharge Pipe	87B957A-304 – 4" piping 87B957B-304 – 6" piping
Elbow (Between Discharge Pipe & Tee)	2L7A-304 – 4" piping 2L7B-304 – 6" piping
Tee (Required only on 4" piping)	2L12A-304
Plug Valve	2L104A-304 – 4" piping 2 req'd 2L148M-304 – 6" piping 1 req'd
Elbow (Between Plug Valve & Check Valve) 4" standard elbow, 6" reducing elbow	87B242-304 & 87B243-304 – 4" 87B244-304 & 87B245-304 – 6"
Check Valve Assembly 4"	56B20A-LH 56B20B-RH
Check Valve Assembly 6"	56B21A-LH 56B21B-RH
RAPID JACK CHECK VAVLE 4"	H56B18A-LH H56B18B-RH
RAPID JACK CHECK VAVLE 6"	H56B19A-LH H56B19B-RH
Volute Gasket (1/64 & 1/16 thickness available)	60A26 (1/32")
Impeller Bolt	60A12
Impeller Washer	60A20

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MECHANICAL, PIPING, & PARTS (CONTINUED)

PUMP PARTS <i>VERIFY ALL CASTED PARTS WITH FACTORY</i>	4C3B*1 Pump	4D3B*1 Pump
Shaft Diameter	2 $\frac{1}{8}$ "	3"
Mechanical Seal Kit	H87A97	H87A534
Impeller, CW (Clockwise)	60B272C	60B272E
Impeller, CCW (Counter-Clockwise)	60B272D	60b272F
Maximum Diameter	12"	12"
Suction Side - Diameter Eye	4"	4"
Motor Adapter-Also sell S/N NAMEPLATE	60B165E-304	60B165M-304
Suction Piping		
Integral Volute & Front Head, CCW	87B286A-304 – 4" Suc. Piping 87B287B-304 – 6" Suc. Piping	87B286A-304 – 4" Suc. Piping 87B287B-304 – 6" Suc. Piping
Integral Volute & Front Head, CW	87B286B-304 – 4" Suc. Piping 87B287B-304 – 6" Suc. Piping	87B286B-304 – 4" Suc. Piping 87B287B-304 – 6" Suc. Piping
Mounting Adapter	87B239-304 - 4" Suc. Piping 87B241-304 – 6" Suc. Piping	87B239-304 - 4" Suc. Piping 87B241-304 – 6" Suc. Piping
Flange Gasket	11L1AA – 4" Suc. Piping 11L1CA – 6" Suc. Piping	11L1AA – 4" Suc. Piping 11L1CA – 6" Suc. Piping
Socket Head Capscrew	6L178B – 4" Suc. Piping 6L178F – 6" Suc. Piping	6L178B – 4" Suc. Piping 6L178F – 6" Suc. Piping
Discharge Pipe	28A549BE-304 – 4" piping 28A550BX-304 – 6" piping	28A549BE-304 – 4" piping 28A550BX-304 – 6" piping
Elbow (Between Discharge Pipe & Tee)	2L7A-304 – 4" piping 2L7B-304 – 6" piping	2L7A-304 – 4" piping 2L7B-304 – 6" piping
Tee (Required only on 4" piping)	2L12A-304	2L12A-304
Flange Filler – Use on 4' diameter Wet Well Only	2L28AJ-304	2L28AJ-304
4" piping with 5/6" diameter Wet Well doesn't use 6" piping with 5/6" diameter Wet Well	2L86B014-304	2L86B014-304
Plug Valve	2L104A-304 – 4" piping 2 req'd 2L148M-304 – 6" piping 1 req'd	2L104A-304 – 4" piping 2 req'd 2L148M-304 – 6" piping 1 req'd
Elbow (Between Plug Valve & Check Valve)	87B242-304 & 87B243-304 – 4" 87B244-304 & 87B245-304 – 6"	87B242-304 & 87B243-304 – 4" 87B244-304 & 87B245-304 – 6"
Check Valve Assembly, LH – 4"	56B20A-LH 56B20B-RH	56B20A-LH 56B20B-RH
Check Valve Assembly, LH – 6"	56B21A-LH 56B21B-RH	56B21A-LH 56B21B-RH
RAPID JACK CHECK VAVLE 4"	H56B18A-LH H56B18B-RH	H56B18A-LH H56B18B-RH
RAPID JACK CHECK VAVLE 6"	H56B19A-LH H56B19B-RH	H56B19A-LH H56B19B-RH
Volute Gasket (1/64 & 1/16 thickness available)	60A28 (1/32")	60A28 (1/32")
Impeller Bolt	60A12	60A87
Impeller Washer	60A20	60A86

PARTS ORDERING NOTE: Remind customer that gaskets may be needed when ordering casted parts

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MECHANICAL, PIPING, & PARTS (CONTINUED)

PUMP PARTS	4B2X*1	4C2X *1
<i>VERIFY ALL CASTED PARTS WITH FACTORY</i>	Pump	Pump
Shaft Diameter	1 ⁷ / ₈ "	2 ¹ / ₈ "
Mechanical Seal Kit	H87A28	H87A97
X-PELLER® , CW (Clockwise)	60B252A	60B252C
X-PELLER® , CCW (Counter-Clockwise)	60B252B	60B252D
Maximum Diameter	10-1/8"	10-1/8"
Suction Side - Diameter Eye	4"	4"
Motor Adapter-Also sell S/N NAMEPLATE	60B165A-304	60B165B-304
Suction Piping		
Volute	87B945-304	87B945-304
Front Head	87C1-304 - 4" Suc. Piping 60C156-304 - 6" Suc. Piping	87C1-304 - 4" Suc. Piping 60C156-304 - 6" Suc. Piping
Mounting Adapter	87B239-304 - 4" Suc. Piping 87B241-304 - 6" Suc. Piping	87B239-304- 4" Suc. Piping 87B241-304 - 6" Suc. Piping
Flange Gasket	11L1A - 4" Suc. Piping 11L1C - 6" Suc. Piping	11L1A - 4" Suc. Piping 11L1C - 6" Suc. Piping
Socket Head Capscrew	6L178B - 4" Suc. Piping 6L178F - 6" Suc. Piping	6L178B - 4" Suc. Piping 6L178F - 6" Suc. Piping
Discharge Pipe	87B957A-304 - 4" piping 87B957B-304 - 6" piping	87B957A-304 - 4" piping 87B957B-304 - 6" piping
Elbow (Between Discharge Pipe & Tee)	2L7A-304 - 4" piping 2L7B-304 - 6" piping	2L7A-304 - 4" piping 2L7B-304 - 6" piping
Tee (Required only on 4" piping)	2L12A-304	2L12A-304
Plug Valve	2L104A-304 - 4" piping 2 req'd 2L148M-304 - 6" piping 1 req'd	2L104A-304 - 4" piping 2 req'd 2L148M-304 - 6" piping 1 req'd
Elbow (Between Plug Valve & Check Valve) 4" standard elbow, 6" reducing elbow	87B242-304 & 87B243-304 - 4" 87B244-304 & 87B245-304 - 6"	87B242-304 & 87B243-304 - 4" 87B244-304 & 87B245-304 - 6"
Check Valve Assembly, LH - 4" Check Valve Assembly, LH - 6"	56B20A-LH 56B20B-RH 56B21A-LH 56B21B-RH	56B20A-LH 56B20B-RH 56B21A-LH 56B21B-RH
RAPID JACK CHECK VAVLE 4"	H56B18A-LH H56B18B-RH	H56B18A-LH H56B18B-RH
RAPID JACK CHECK VAVLE 6"	H56B19A-LH H56B19B-RH	H56B19A-LH H56B19B-RH
Volute Gasket (1/64 & 1/16 thickness available)	60A26 (1/32")	60A26 (1/32")
Impeller Bolts	60A12	60A12
Impeller Washer	60A20	60A20

PARTS ORDERING NOTE: Remind customer that gaskets may be needed when ordering casted parts

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MECHANICAL, PIPING, & PARTS (CONTINUED)

PUMP PARTS <i>VERIFY ALL CASTED PARTS WITH FACTORY</i>	6B3B*1 Pump	6C3B*1 Pump	6D3B*1 Pump
Shaft Diameter	1 $\frac{7}{8}$ "	2 $\frac{1}{8}$ "	3"
Mechanical Seal Kit	H87A28	H87A97	H87AS34
Impeller, CW (Clockwise)	60B273A	60B273C	60B273E
Impeller, CCW (Counter-Clockwise)	60B273B	60B273D	60B273F
Maximum Diameter	12"	12"	12"
Suction Side - Diameter Eye	5 $\frac{1}{8}$ "	5 $\frac{1}{8}$ "	5 $\frac{1}{8}$ "
Motor Adapter-Also sell S/N NAMEPLATE	60B165D-304	60B165F-304	60B165M-304
Suction Piping			
Volute	60D35-304	60D35-304	60D35-304
Front Head	60C88-304	60C88-304	60C88-304
Mounting Adapter	87B241-304	87B241-304	87B241-304
Flange Gasket	11L1C	11L1C	11L1C2
Socket Head Capscrew	6L178FA	6L178FA	6L178FA
Front Head	60C88-304	60C88-304	60C88-304
Pump Stand	None	None	None
Discharge Pipe 8" needs 2L28013-304 + 2L201B	2L28013-304 - 6"	2L28013-304 - 6"	2L28013-304 - 6"
Elbow (Between Discharge Pipe & Tee)	2L7B	2L7B	2L7B
Tee	None	None	None
Flange Filler	2L86BO12D-304	2L86BO12D-304	2L86BO12D-304
Plug Valve	2L148M-304	2L148M-304	2L148M-304
Elbow (Between Plug Valve & Check Valve)	87B246-304 & 87B247-304	87B246-304 & 87B247-304	87B246-304 & 87B247-304
Check Valve Assembly 6"	56B21A - LH 56B21B - RH	56B21A - LH 56B21B - RH	56B21A - LH 56B21B - RH
RAPID JACK Check Valve 6"	H56B19A - LH H56B19B - RH	H56B19A - LH H56B19B - RH	H56B19A - LH H56B19B - RH
Volute Gasket (1/64 & 1/16 thickness available)	60A28 (1/32")	60A28 (1/32")	60A28 (1/32")
Impeller Bolt	60A12	60A12	60A87
Impeller Washer	60A20	60A20	60A86

PARTS ORDERING NOTE: Remind customer that gaskets may be needed when ordering casted parts

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MECHANICAL, PIPING, & PARTS (CONTINUED)

MECHANICAL SEALS

SEAL & SPARE PARTS	B-SHAFT	C-SHAFT	D-SHAFT
	1 ⁷ / ₈ "	2 ¹ / ₈ "	3"
Seal Kit, Mechanical Seal	H87A28	H87A97	H87A534
Bronze Seal Housing	87B2	87B19***	87B73***
Seal Housing – Flat Gasket **	60A11	60A17	60A84
Seal Housing - Quad Ring **	60A110	60A111	60A146
Ceramic Rotating Wear Ring	60A32 *	60A33 *	60A85 *
Carbon Stationary Wear Ring	60A36 *	60A37 *	60A52 *
Rotating O-Ring	60A39 *	60A41 *	60A53 *
Stationary Quad Ring	60A38 *	60A40 *	60A54 *
Spring	60A30 *	60A31 *	60A55 *
Impeller Bolt	60A12	60A12	60A87
Impeller Washer	60A20	60A20	60A86
Volute Gasket	See Volute Gasket Table on Page 25		

* Parts contained in H87A28, H87A97, or H87A182 Mechanical Seal Kits

PARTS ORDERING NOTE: Each time the impeller bolt is removed (required for seal replacement), Smith & Loveless recommends installation of a new impeller bolt that has the embedded Nylock.

PARTS ORDERING NOTE: Each time a new seal, ceramic, carbon or spring is installed, a volute gasket, seal housing gasket or quad ring, and impeller bolt are recommended.

** **PARTS TIP:** Seal Housing - Flat Gasket vs. Quad Ring: The older seal housing has a flat surface and uses the flat gasket for both the single and double mechanical seals. The newer seal housing has a groove and it can use either the flat gasket or the quad ring.

*** **SEAL HOUSING:** Call factory for different seal housings for 4-frame pumps.(4B4B, 6C4V)

**** **BOLDED PARTS:** Always quote all bolded parts when quoting a mechanical seal kit.

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MECHANICAL, PIPING, & PARTS (CONTINUED)

PUMP IMPELLERS & PUMP X-PELLERS® - VACUUM PRIMED

PUMP MODEL	MOTOR RPM	IMPELLER CW PART #	IMPELLER CCW PART #	ADDITIONAL PARTS 1 SET PER IMPELLER PART#
4B2B*1	-	60B265A	60B265B	60A12, 60A20, 60A26
TURBO 4B2C	-	87D103	87D104	60A12, 60A20, 60A26
4B2D*1	-	60B269A	60B269B	60A12, 60A20, 60A26
4B2X*1	-	60B252A	60B252B	60A12, 60A20, 60A26
4B3B*1	-	60B272A	60B272B	60A12, 60A20, 60A28
4B3X*1	-	60B231A	60B231B	60A12, 60A20, 60A26
4B2B*1	-	60B265C	60B265D	60A12, 60A20, 60A26
4C2B*1	-	60B265C	60B265D	60A12, 60A20, 60A26
4C2D*1	-	60B269C	60B269D	60A12, 60A20, 60A26
4C2X*1	1800	60B252C	60B252D	60A12, 60A20, 60A26
4C3B*1	-	60B272C	60B272D	60A12, 60A20, 60A28
4C3X	-	60B231C	60B231D	60A87, 60A86, 60A28
4D3B*1	-	60B272E	60B272F	60A87, 60A86, 60A28
4D3X	-	60B231E	60B231F	
4D4B	-	60D259	60D258	60A87, 60A86, 60A106B
6B3B*1 (& SERIES)	-	60B273A	60B273B	60A12, 60A20, 60A28
6B3X	-	60B204	60B209	60A12, 60A20, 60A28
6C3B*1 (& SERIES)	-	60B273C	60B273D	60A12, 60A20, 60A28
6C3X	-	60B217	60B218	60A12, 60A20, 60A28
6D3B*1 (& SERIES)	-	60B273E	60B273F	60A87, 60A86, 60A28
6D3X	-	60B219	60B220	60A87, 60A86, 60A28
8C4D	-	60D178	60D179	60A12, 60A20, 60A106B
8D4D	-	60D150	60D151	60A87, 60A86, 60A106B

GASKETS, VOLUTE PUMP SIZE	STANDARD GASKET PART #	OTHER VOLUTE GASKETS PART #
4B2B*1, 4B2C, 4B2D*1, 4C2B*1, 4C2D*1, 4B2X*1, 4C2X*1	60A26 (1/32")	60A27 (1/16")
4B3B*1, 4C3B*1, 4D3B*1, 6B3B*1, 6C3B*1, 6D3B*1, 6D3X, 4D3X, 4C3X, 4B3X	60A28 (1/32")	60A29 (1/16")

PARTS ORDERING NOTE: New volute gasket is required each time the rotating assembly (motor, impeller, mechanical seals, &/or volute) is disassembled.

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OTHER PARTS

ALARMS

PART DESCRIPTION	PART #
Horn, 120 VAC, 60 cycle	4L73A
Horn, 12 VDC.	4L73B
Horn, Weatherproof Box	4L73D
RED ALARM LIGHT ASSEMBLY:	
Light, Red 12 VDC	28B580A
Lamp, 12 VDC, 50 W for 28B580A Light	4L120
Light, Red 120 VAC	28B580B
Lamp, 120 VAC, 50 W for 28B580B Light	4L95A
Light Fixture Body	5L76
Light Fixture Adapter	5L77
Red Globe for 5L77	5L78B
Globe Guard for 5L77	5L79
Trickle Charger (CURRENT) Can be used in place of 4L222	4L222K

***Consult the factory.*

BLOWER - VENTILATION

PART DESCRIPTION	PART #
Blower – 265 CFM	7L195
Electrical Cord – 15' - Coiled	4L379B
Cord Connector	5L15A
Air Discharge Seal (seals blower to hood)	87A86
Blower & Cord Assembly (includes blower, cord connector and 15' coiled cord)	87A414B
Air Discharge Seal (seals blower to hood)	87A86
Louver, Adjustable 6 x 6	11L138A
Seal for Louver (Placed between louver & fiberglass)	87A86

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OTHER PARTS (CONTINUED)

GASKETS	
PART DESCRIPTION	PART #
4" Flange Gasket (check valves & suction/discharge piping)	11L1A
6" Flange Gasket (check valves & suction/discharge piping)	11L1C
Volute/Base Gasket	60A108
Seal Housing - Quad Ring *	B Shaft: 60A110
	C Shaft: 60A111
	D Shaft: 60A146
Hood Gasket	10L122AD
Baseplate Gasket	10L122AB
Rolagrip Gasket	4": 3L3C
	6": 3L3D

* **PARTS TIP:** Seal Housing Gasket - Flat vs. Quad Ring. The seal housing has a groove and can use either gasket

HOODS	
PART DESCRIPTION	PART #
Fiberglass Hood 54" x 68" Non-Insulated *	87B265AA
Fiberglass Hood 54" x 68" Insulated *	87B877A
Fiberglass Hood 62" x 68" Non-Insulated *	87B265BA
Fiberglass Hood 62" x 68" Insulated *	87B877B
Fiberglass Hood 62" x 70" Non-Insulated *	87B265CA
Fiberglass Hood 62" x 70" Insulated *	87B877C

* **NOTE:** Hardware is not included with the hood - must be requested separately.

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OTHER PARTS (CONTINUED)

HOODS - MISCELLANEOUS PARTS	
PART DESCRIPTION	PART #
Gas Shock, Locking	11L241H
Gas Shock, Non-Locking	11L241K
Ball Stud	11L241BB
Vent, Adjustable	11L138A
Handle	12L5B
Hinge (2 per hood)	87A311
Hinge Hardware Kit (includes hinge)	H87A327
Blower	7L195
Blower and Cord Assembly	87A414A
Safety Chain	11L236B
Nameplate	NAMEPLATE
Fiberglass Hood Repair Kit	CALL FACTORY

KEYSTOCK (MOTOR SHAFT KEY)	
PART DESCRIPTION	PART #
B Shaft	95L39-0
C Shaft	95L39-0
D Shaft	95L39-01

LABELS	
PART DESCRIPTION	PART #
Label, Blower	12A107A
Label, Rotation	12A152
Label, Motor No 1	12A2
Label, Motor No 2	12A3
Label, Low Level	12A537
Label, Low Water	12A538
Label, Notice Mechanical	12A74
Label, Notice Blower	12A76
Label, "OSHA" Warning	12L150AF
Label, "OSHA" Caution Lift Warning	12L150N
Label, S&L Logo 8" x 3-1/4"	12L154B
Label, S&L Logo 5" x 2"	12L154C
Label, Motor Lift Warning	12L166
Label, Control Panel Nameplate	12L170
Label, FORMULA X® Logo	12L217A

LATCHES, FOR LOCKS	
PART DESCRIPTION	PART #
Pad Lockable Draw Latch & Striker, S.S. (for hood)	12L223A
Pad Lockable Striker Plate & Latch, S.S. (for wet well access plates)	12L222A

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OTHER PARTS (CONTINUED)

LEVEL INDICATION CONNECTION PLATE	
PART DESCRIPTION	PART #
Level Indication Connection Plate Complete Assembly (includes all parts listed below)	H87A397
Float Switch Connection Plate Gasket	87B350
Float Switch Connection Plate	87B348
Pipe Plug (2 required for PROTRONIX ® I control panels, 3 required per plate for relay logic control panels)	1L69C
Cord Grip for Floats (3 required for PROTRONIX ® I control panels, 2 required per plate for relay logic control panels)	5L57C
Cord Grip for Submersible Pressure Transducer (1 required for PROTRONIX ® I control panels, 0 required per plate for relay logic control panels)	5L57N
Washer, Stainless Steel (2 required per plate)	6L65F
Lock Washer, Stainless Steel (2 required per plate)	6L94F
Hex Nut, Stainless Steel (2 required per plate)	6L30K
Label, Plastic – LL ALARM/TRANSDUCER/HL ALARM	12A538
Label, Plastic – LL OFF/LL ON/HL ON	12A537
LIFTING STANCHION	
PART DESCRIPTION	PART #
Lifting Stanchion – Top Section – Hemlock	87B39A2-304
Lifting Stanchion – Bottom Section – Hemlock	87B39B2-304
LOUVER, VENT	
PART DESCRIPTION	PART #
Louver, Adjustable – 6" x 6"	11L138A
Seal for Louver (Placed between louver & fiberglass)	87A86

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OTHER PARTS (CONTINUED)

PAINT (VERSAPOX®) & TOUCH-UP KITS

PART DESCRIPTION	PART #
Touch-Up Paint Kit – Georgian Hemlock	H87A425
Primer (RED), Part A, Gallon	12L138A *
Primer Catalyst, Part B, Gallon	12L138B

* Order one gallon of Catalyst Part B for each gallon of paint/primer – must be mixed before use.

SHADE-AIDE™

PART DESCRIPTION	PART #
SHADE AIDE™ Kit-Small, Aluminium (Covers HMI frame size 7" H x 9.5" W)	H87A379
SHADE AIDE™ Kit-Small Stainless Steel (Covers HMI frame size 7" H x 9.5" W)	H87A379B
SHADE AIDE™ Kit-Large, Aluminium (Covers HMI frame size 15" W x 11" H)	H87A485
SHADE AIDE™ Kit-Large, Stainless Steel (Covers HMI frame size 15" W x 11" H)	H87A485B
SHADE AIDE™ Kit-XL, Aluminium (Covers HMI frame size 19.875" W x 14" H)	H87A503A
SHADE AIDE™ Kit-XL, Stainless Steel (Covers HMI frame size 19.875" W x 14" H)	H87A503D

* PARTS ORDERING NOTE: Part # extension vary based on manufacturer. Motor manufacturer needs to be identified prior to sale.

SLINGER RINGS (FOR MOTORS)

PART DESCRIPTION	PART #
B Shaft	95L39-B*
C Shaft	95L39-C*
D Shaft	95L39-D*

VENT LOUVER

PART DESCRIPTION	PART #
Vent Louver, Adjustable – 6" x 6"	11L138A

VIDEOS - TRAINING

PART DESCRIPTION	PART #
How To Replace the Single Mechanical Seal – DVD Format	12L318DVD-1

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OTHER PARTS (CONTINUED)

4' WET WELL MANWAY ACCESS LIDS (ALUMINUM)	
PART DESCRIPTION	PART #
4' Wet Well Manway Access Lid Half With Slot (aluminum)	87B184A
4' Wet Well Manway Access Lid Half Without Slot (aluminum)	87B184B
4' Wet Well S.S. Continuous Hinge (2 Required)	87B272B
Gasket (installs where two access lids mate up) U-Shaped Neoprene <i>4' required for 4' wet well</i>	10L122AC
Neoprene Gasket (4' Wet Well Hinge) for Under Continuous Hinge (2 required)	87B182-2A
Center Support Angle	87B250C
Button Socket Headscrew (18 required)	6L221CD
SS Lock Washer (18 required)	6L94G
SS Hex Nut (18 required)	6L30A

5' & 6' WET WELL MANWAY ACCESS LIDS (ALUMINUM)	
PART DESCRIPTION	PART #
5' & 6' Wet Well Manway Access Lid Half With Slot (aluminum)	87B184C
5' & 6' Wet Well Manway Access Lid Half Without Slot (aluminum)	87B184D
5' & 6' Wet Well S.S. Continuous Hinge (2 Required)	87B272D
Gasket (installs where two access lids mate up) U-Shaped Neoprene <i>5' required for 5' & 6' Wet Well</i>	10L122AC
Neoprene Gasket for Under Continuous Hinge (2 required)	87B182-2B
Center Support Angle	87B250C
Button Socket Headscrew (23 required)	6L221CD
SS Lock Washer (23 required)	6L94G
SS Hex Nut (23 required)	6L30A

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VACUUM PRIMING SYSTEM

FLOAT CHECK VALVES

PART DESCRIPTION	PART #
Float Check Valve, 3/8" NPT (Complete Assembly) (Replaces 1L443, 1L443G, and 87A76)	1L443H
Adapter Fitting, 3/8" x 1/4"	1L43D
Body (See drawing - not normally replaced)	
Ball Seat (for 1L443H)	1L443HA
Valve Ball 1 1/2" Diameter	1L443B
O-Ring (for 1L443H)	1L443HB
Bowl Only (for 1L443H)	1L443HC
Drain Valve	1L333
SONIC START® STREAMLINE™ and WaveStart® Float Check Valve Piping Assembly (Connects Float Check Valve to vacuum tubing includes gauge port & shut off valve)	87B739

SOLENOID VALVES

PART DESCRIPTION	PART #
2-Way Solenoid Valve (5/16" orifice)	1L545A
DIN Connector for 1L545A with 8' cord (OLD P/N: 1L545A-1) (Required for initial installation of 1L545A)	87A481-STK
SONIC START® STREAMLINE™ and WaveStart® Vacuum Dome /2-Way Solenoid Valve Assembly-Newest Current Arrangement	87B728

WAVESTART® KITS

PART DESCRIPTION	PART #
WAVESTART® Upgrade Kit for One Pump (from Sonic Start™)	H87A391M
WAVESTART® Upgrade Kit for Two Pumps (from Sonic Start™)	H87A391N
WAVESTART® Upgrade Kit for One Pump (from Electrode)	H87A391P
WAVESTART® Drill & Tap Kit	H87A390A

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VACUUM PRIMING SYSTEM (CONTINUED)

SONIC START® STREAMLINE™ REPLACEMENT PARTS

These parts come standard in the SONIC START® STREAMLINE™ Kits

PART DESCRIPTION	PART #
SONIC START® STREAMLINE™ Replacement Sensor Probe – 120 VAC	4L628N
Explosion Proof SONIC START® STREAMLINE™ Prime Sensing Probe	4L628H
SONIC START® Operating Module	4L264
SONIC START® DIN Connector Cable (Old PN: 1L545A-2)	87A481-STK
SONIC START® 8 Pin Socket	5L49B
SONIC START® Cord Grip	5L57L
SONIC START® Cable Ties	5L150A
SONIC START® Brass Bulkhead Adapter	87A384
SONIC START® O-Ring for Bulkhead Adapter	11L4J
SONIC START® Jam Nut	6L222A
SONIC START® Reducer Coupling	1L552A
SONIC START® Male Tubing Connector	1L460D
SONIC START® O-Ring for Cord Grip	5L57L-2
SONIC START® Nut for Cord Grip	5L57L-1

VACUUM DOME

PART DESCRIPTION	PART #
Vacuum Dome (one hole at top)	87B133B*
Compression Ring (holds dome in place)	87A226
SONIC START® STREAMLINE™ AND WAVESTART® Vacuum Dome 1/2-Way Solenoid Valve Assembly (Current Style)	87B728

*PARTS ORDERING NOTE: Small O-Ring (P/N 11L4J) & Large O-Ring (11L4K) are recommended (not included with dome)

VACUUM DOME ASSEMBLY

PART DESCRIPTION	PART #
Vacuum Dome Complete Assembly (one hole at top) Used with SONIC START® Probe. Old Style.	87B452A
DO NOT USE WITH SONIC START® STREAMLINE™ Compression Ring (holds dome in place)	87A226
Ferrule Connection Fitting (Optional replacement for Quick Disconnect Fitting on new style electrodes that are includes with these assemblies.)	1L248A
Ferrule Nut & Sleeve	1L786A
SONIC START® STREAMLINE™ AND WAVESTART® Complete Vacuum Dome Assembly Vacuum Dome/ 2-Way Solenoid Valve Dome Assembly. Current Style	87B728

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VACUUM PUMP - HEAVY DUTY - SINGLE PISTON & SPARE PARTS

PART DESCRIPTION	PART #
Heavy Duty 1/6 HP (For Pumps with 4" Piping) (<i>Complete pump</i>)	8L29
Repair Kit	8L29AB
Inlet Filter	8L29A1
Head Gasket	8L29A4
Valve Outlet	8L29A5
Valve Plate	8L29A6
Inlet Valve	8L29A7
Cylinder Gasket	8L29A8
Piston Ring	8L29A10
Piston Seal	8L29A11
Rider Ring	8L29A12
Fan	8L29A20
Shroud	8L29A21
Motor, 1/6 HP 1725	NOT AVAILABLE**
Vibration Isolator (See Section 6)	87A291

VACUUM PUMP - HEAVY DUTY - DUAL PISTON & SPARE PARTS

PART DESCRIPTION	PART #
Heavy Duty 1/2 HP (For Pumps with 6" Piping) (<i>Complete pump</i>) (replaces 8L40A*)	8L32*
Repair Kit	8L32-1
Head Gasket	8L32-2
Outlet Valve	8L32-3
Inlet Valve	8L32-4
Cylinder Gasket	8L32-5
Felt	8L32-6
Piston Ring	8L32-7
Piston Seal	8L32-8
Rider Ring	8L32-9
Valve Plate	8L32-10
Motor 1/2 HP 1725 RPM	NOT AVAILABLE**
Shroud	8L32-12
Fan	8L32-13
Cylinder Head	8L32-14
Vibration Isolator (See Section 6)	87A291

**PURCHASE OF NEW VACUUM PUMP REQUIRED

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OTHER PARTS (CONTINUED)

VACUUM PUMP - COMBINED EXHAUST ASSEMBLY

PART DESCRIPTION	PART #
Vacuum Pump	8L32
Tee	1L37C
Adapter	1L42B
Elbow	1L90H
Tube/NPT Connector	1L248D
Polyethelyne Tubing	1L142CA

VACUUM TUBING

PART DESCRIPTION	PART #
Vacuum Tubing - 1/4"	Natural: 1L142AA
	Green: 1L142AB
	Red: 1L142AC
Vacuum Tubing - 3/8"	Natural: 1L142BA
	Green: 1L142BB
	Red: 1L142BC

VACUUM TUBING FITTINGS (for vacuum domes, solenoid valves, & float check valves)

PART DESCRIPTION	PART #
Ferrule (old style) elbow - 3/8" x 1/4" NPT	1L190B
Ferrule (old style) straight - 3/8" x 1/4" NPT	1L248A
Ferrule Nut & Sleeve	1L786A
Quick Disconnect (new style) elbow - 3/8" x 1/4" NPT	1L546C
Quick Disconnect (new style) straight - 3/8" x 1/4" NPT	1L460D

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VALVES

PLUG VALVES

PART DESCRIPTION	PART #
4" Plug Valve	2L104A-304 *
Handle/Wrench Only for 4" Plug Valve (Chilean Red)	2L104AA1
4" Flange Gasket	11L1A
6" 3-Way Tapered Plug Valve	2L148M-304 *
6" Flange Gasket	11L1C
Valve Wrench for Plug Valves – (Chilean Red)	2L104AA1

* **PARTS ORDERING NOTE:** 2 new Flange Gaskets per Plug Valve will be required.

WAFFER CHECK VALVES, SPRING LOADED

PART DESCRIPTION	PART #
4" Left Hand Wafer Check Valve, Extended Body	2L153S*
4" Right Hand Wafer Check Valve, Extended Body	2L153T*
4" Flange Gasket	11L1A or 87A255
4" Left Hand Wafer Check Valve, Extra Large Body	56B20A
4" Right Hand Wafer Check Valve, Extra Large Body	56B20B
6" Left Hand Wafer Check Valve	2L153Q-304 *
6" Right Hand Wafer Check Valve	2L153R-304 *
6" Flange Gasket	11L1C or 87A224
6" Left Hand Wafer Check Valve, Extra Large Body	56B21A
6" Right Hand Wafer Check Valve, Extra Large Body	56B21B

* **PARTS ORDERING NOTE:** 2 new Flange Gaskets per Plug Valve will be required.

RAPID JACK® WAFFER CHECK VALVES, SPRING LOADED

PART DESCRIPTION	PART #
4" Left Hand Wafer RAPID JACK® Check Valve, Extended Body	H56B18A
4" Right Hand RAPID JACK® Wafer Check Valve, Extended Body	H56B18B
4" Check Valve Gasket	11L1A or 87A255
4" RAPID JACK® Top Gasket	55B57
6" Left Hand RAPID JACK® Wafer Check Valve	H56B19A
6" Right Hand RAPID JACK® Wafer Check Valve	H56B19B
6" Flange Gasket	11L1C or 87A224
4" RAPID JACK® Top Gasket	55B58

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VALVES (CONTINUED)

WAFFER CHECK VALVES – SPRING LOADED, SPARE PARTS		
PART DESCRIPTION	4" PART #	6" PART #
Seat Ring	11L207F	11L207G
Brass Arm *	55A32	55A39
Brass Clapper	55B39	55B29
Shoulder Bolt - Stainless Steel	6L184A	6L184B
Roll Pin - Stainless Steel	2L153A6	2L153C-12
Shaft - Stainless Steel *	55B32	55B37
Bronze Bushing (2 required)	55A34	55A35
O-Ring (2 required)	2L153A9	2L153C9
Steel Bar Arm/Handle	55A36	55A37
Pin - Stainless Steel	2L153D11	2L153A11
Eye Bolt (from body to spring)	6L55N	6L55N
Spring - Stainless Steel	11L104N	11L104M
Pipe Plug	1L69C	1L69D
Eye Bolt (from handle to spring)	6L55M	6L55M
Flange Gasket (2 required per valve)	11L1A or 87A255	11L1C or 87A224

RAPID JACK® WAFFER CHECK VALVES – SPRING LOADED, SPARE PARTS		
PART DESCRIPTION	4" PART #	6" PART #
Seat Ring	11L207F	11L207G
Brass Arm *	55A32	55A39
Brass Clapper	55B39	55B29
Shoulder Bolt - Stainless Steel	6L184A	6L184B
Roll Pin - Stainless Steel	2L153A6	2L153C-12
Shaft - Stainless Steel *	55B32	55B37
Bronze Bushing (2 required)	55A34	55A35
O-Ring (2 required)	2L153A9	2L153C9
Steel Bar Arm/Handle	55A36	55A37
Pin - Stainless Steel	2L153D11	2L153A11
Eye Bolt (from body to spring)	6L55N	6L55N
Spring - Stainless Steel	11L104N	11L104M
Pipe Plug	1L69C	1L69D
Eye Bolt (from handle to spring)	6L55M	6L55M
Flange Gasket (2 required per valve)	11L1A or 87A255	11L1C or 87A224
Top Assembly LH	56B18ATOP	56B19ATOP
Top Assembly RH	56B18BTOP	56B19BTOP
Top Gasket	55B57	55B58

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SUGGESTED SPARE PARTS

LIST OF SUGGESTED SPARE PARTS

PART DESCRIPTION	PART #
Mechanical Seal (Select the correct seal for your pump)	
<input type="checkbox"/> B-Shaft Single Mechanical Seal – 1-7/8"	H87A28
<input type="checkbox"/> C-Shaft Single Mechanical Seal – 2-1/8"	H87A97
<input type="checkbox"/> D-Shaft Single Mechanical Seal – 3"	H87A534
Volute Gasket (Select the correct volute gasket for your pump) <i>A new volute gasket is required each time the rotating assembly (motor, impeller, mechanical seals, and /or volute) is disassembled.</i>	
<input type="checkbox"/> 4B2B*1, TURBO 4B2C, 4B2C, 4B2D, 4C2B, 4C2D	60A26 (¹ / ₃₂ "
<input type="checkbox"/> 4B3B, 4C3B, 4D3B, 6B3B (& SERIES), 6C3B (& SERIES), 6D3B (& SERIES)	60A28 (¹ / ₃₂ "
<input type="checkbox"/> 4D4B, 8C4D, 8D4D	60A106B (¹ / ₃₂ "
Seal Housing Gasket (Select the correct gaskets for your pump) <i>A new seal housing gasket is required each time the mechanical seal is replaced.</i>	
<input type="checkbox"/> Flat – B-Shaft – 1-7/8" – Older Style	60A11
<input type="checkbox"/> Flat – C-Shaft – 2-1/8" – Older Style	60A17
<input type="checkbox"/> Flat – D-Shaft – 3" – Older Style	60A84
<input type="checkbox"/> Quad Ring – B-Shaft – 1-7/8" – Seal Housing with Groove	60A110
<input type="checkbox"/> Quad Ring – C-Shaft – 2-1/8" – Seal Housing with Groove	60A111
<input type="checkbox"/> Quad Ring – D-Shaft – 3" – Seal Housing with Groove	60A146
Nylock Impeller Bolt (Select the correct bolt for your pump) <i>A new Nylock Impeller Bolt is recommended from a safety standpoint each time it is removed.</i>	
<input type="checkbox"/> B-Shaft & C-Shaft Nylock Impeller Bolt – 1-7/8" & 2-1/8"	60A12
<input type="checkbox"/> D-Shaft Nylock Impeller Bolt – 3"	60A87
Impeller Washer (Select the correct washer for your pump)	
<input type="checkbox"/> B-Shaft & C-Shaft Impeller Washer – 1-7/8" & 2-1/8"	60A20
<input type="checkbox"/> D-Shaft Impeller Washer – 3"	60A86
Prime Sensing Probe (Select the style installed on your pump station)	
<input type="checkbox"/> SONIC START® Prime Sensing Probe	4L628N
<input type="checkbox"/> SONIC START® STREAMLINE™ AND WAVESTART® Vacuum Dome – Solenoid Valve Assembly (If SONIC START® STREAMLINE™ AND WAVESTART® is installed on your station.)	87B728
Vacuum Dome (Clear Dome Only) Small O-Ring (P/N 11L4J) & Large O-Ring (11L4K) are recommended (not included with dome)	87B133B
Vacuum Dome Top O-Ring	11L4J
Vacuum Dome Bottom O-Ring	11L4K
Vacuum Tubing – 3/8" - Red	1L142BC

ENGINEERING DATA



Smith &
Loveless, Inc.®

14040 Santa Fe Trail
Lenexa, KS 66215-1234, USA

After Market
Parts Price Book
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GENERAL LIST OF OTHER POSSIBLE SPARE PARTS

PART DESCRIPTION	PART #
Alternator (Select the correct alternator for your pump)	
<input type="checkbox"/> Alternator, Sequential – New Style 2-Pump P.S. (plug-in with 11 pin)	4L187B
<input type="checkbox"/> Socket Base, 11 pin, for Alternator 4L187B	5L49C
<input type="checkbox"/> Alternator/Timer for new stations, 1 Switch, Wire-In 16 hour (8 on/off)	4L365A
<input type="checkbox"/> Relay, Alternator	4L105A
Blower (Select the correct blower for your pump station)	
<input type="checkbox"/> Blower – 265 CFM (Newer Stations)	7L195
CR Relay (Vacuum Pump Relay) (Select the correct CR Relay for your station)	
<input type="checkbox"/> Relay for Vacuum Pump (1CR, 2CR)	4L107F
<input type="checkbox"/> Vacuum Pump Contactor (VC1, VC2)	4L862A
SONIC START® Operating Module	4L264
Float Check Valve	1L443H
Float Check Valve Drain Valve	1L333
Float Switches (Determine which floats are installed on your pump station)	
<input type="checkbox"/> Normally Open Float Switch (typical)	4L291A
<input type="checkbox"/> Normally Closed Float Switch (Special Alarms only)	4L291B
H-O-A Toggle Switch (3 Position), SPST (Not UL Listed) (replaces 4L207A)	4L272A
Impeller (Must be identified by pump station serial number)	Call Factory
Off-On Test Selector Switch , Toggle Switch, SPST (Not UL Listed)	4L23A

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GENERAL LIST OF OTHER POSSIBLE SPARE PARTS (CONTINUED)

PART DESCRIPTION	PART #
Paint (<i>Determine which paint your station requires</i>)	
* Order one gallon of Catalyst Part B for each gallon of paint/primer – must be mixed before use.	
() Hemlock VERSAPOX ®, Part A, Gallon	12L244B *
() VERSAPOX ® Catalyst, Part B, Gallon	12L105B
() Primer (RED), Part A, Gallon	12L138A *
() Primer Catalyst, Part B, Gallon	12L138B
() Touch-Up Paint Kit – Georgian Hemlock	H87A425
Solenoid Valve (Select the style installed on your pump station)	
() 3-Way Solenoid Valve	1L406E
() 2-Way Solenoid Valve (Remote Mounted & SONIC START ® STREAMLINE™ AND WAVESTART®)	1L545A
() 2-Way Solenoid Valve (Conduit Connection Mounted Through Panel & Backpan)	1L545B
SONIC START ® Operating Module (If SONIC START ® is installed)	4L264
WaveStart ® Operating Module	4L264E
Temperature Control , 37° to 52° Heater	4L135B
Temperature Control , 90° to 75° Blower	4L135C
Thermostat Switch for Heater	OBSOLETE
Tubing (<i>Select the correct tubing for your pump station</i>)	
() Vacuum Tubing – 3/8"	Natural: 1L142BA
	Green: 1L142BB
	Red: 1L142BC
() Vacuum Tubing – 1/4"	Red: 1L142AC
() Vacuum Tubing - 1/2"	Natural 1L142CA
Vacuum Pump (Select the correct vacuum pump for your station)	
() Heavy Duty 1/6 hp Single Piston Vacuum Pump – 4" station piping	8L29
() Heavy Duty 1/2 hp Dual Piston Vacuum Pump – 6" station piping	8L32
Valves – Check Valve, Spring Loaded	Call Factory
Valves – Plug Valve	Call Factory