# PARTS REFERENCE GUIDE

**FOR** 







#### Your Helpful Parts Resource

For S&L Product Codes: 15,16, 25, 28, 30 (First Two Numbers of Station Serial Number)

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14040 Santa Fe Trail Lenexa, KS 66215-1234, USA **After Market Parts Price Book** Section 3 WWMPS Parts 3/1/21 Page 1

#### **After Market Parts Catalog**

# Wet Well Mounted Pump Stations S&L Product codes: DC, 15, 16, 25, 28, 30 (First Two Numbers of Station Serial Number)

ALPHABETICAL PARTS LISTING

<u>PART</u>	NAME PAGE	Ξ
	ADAPTER RING, VACUUM DOME • • • • • • • • • • • • • • • • • • •	
	AIR PRESSURE GAUGES • • • • • • • • • • • • • • • • • • •	
	ALARM, LIGHT • • • • • • • • • • • • • • • • • • •	
	ALARM, PUMP FAILURE • • • • • • • • • • • • • • • • • • •	
	ALARMS • • • • • • • • • • • • • • • • • • •	
	ALTERNATORS · · · · · · · · · · · · · · · · · · ·	
	BLOWER • • • • • • • • • • • • • • • • • • •	
	BREAKER MOUNTING STRAPS – "QUICKLAG C" TYPE••••••22	
	BREAKERS • • • • • • • • • • • • • • • • • • •	
	BULK HEAD FITTINGS, VACUUM DOMES•••••••44	
	CAPACITOR – RECTIFIER – RESISTOR••••••12	
	CHECK VALVE DRAIN, FLOAT CHECK VALVE44	
	CHECK VALVES, FLOAT • • • • • • • • • • • • • • • • • • •	
	CHECK VALVES, WAFER • • • • • • • • • • • • • • • • • • •	
	CHECK VALVES, WAFER SPARE PARTS	
	COMPRESSION RING, VACUUM DOME (RETAINER RING)44	
	CONTACTORS11	
	CONTINUOUS HINGE & BACKING BAR RETROFIT KIT • • • • • • • • • • • • 33	
	CORD CONNECTOR, FOR FLOAT SWITCH • • • • • • • • • • • • • • • • • • •	
	CR RELAYS11	
	DIODE/RECTIFIER	
	DOME, RETROFIT ADAPTER RING	
	DOME, VACUUM OR ELECTRODE	1
	DRESSER COUPLING	
	DUAL PISTON VACUUM PUMP	
	ELECTRODE DOME	
	ELECTRODE DOME ASSEMBLIES • • • • • • • • • • • • • • • • • • •	
	ELECTRODE DOME CONVERSION KIT · · · · · · · · · · · · · · · · · · ·	
	ELECTRODES, ALUMINUM	
	ELECTRODES · · · · · · · · · · · · · · · · · · ·	
	ELECTRODE RELAY • • • • • • • • • • • • • • • • • • •	11
	EMERGENCY KIT • • • • • • • • • • • • • • • • • • •	
	ENCLOSURE (HOOD) • • • • • • • • • • • • • • • • • • •	



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

<u>PART</u>	NAME	PAGE
	ER RELAY	•••••• 11,14 ,41
	EXPANSION CARD	• • • • • 13
	FERRULE · · · · · · · · · · · · · · · · · · ·	• • • • • 42, 44
	FERRULE NUT & SLEEVE • • • • • • • • • • • • • • • • • •	
	FILTERS, VAPOR · · · · · · · · · · · · · · · · · · ·	• • • • • • 51
	FITTINGS FOR TUBING · · · · · · · · · · · · · · · · · · ·	• • • • • • 51
	FLANGE GASKETS	
	FLOAT (DISPLACEMENT) SWITCHES	
	FLOAT SWITCHES, CORD CONNECTOR · · · · · · · · · · · · · · · · · · ·	• • • • • 12
	FLOAT CHECK VALVES · · · · · · · · · · · · · · · · · · ·	• • • • • 44 - 45
	FRONT HEADS · · · · · · · · · · · · · · · · · · ·	
	GAS CYLINDER, BALL STUD & SAFETY CLIP····································	
	GASKETS	• • • • • • <b>34</b> (26 - 34)
	GASKETS, RECTANGULAR · · · · · · · · · · · · · · · · · · ·	
	GASKETS, VOLUTE • • • • • • • • • • • • • • • • • • •	
	GAUGES, AIR PRESSURE • • • • • • • • • • • • • • • • • • •	
	GAUGE, WATER • • • • • • • • • • • • • • • • • • •	• • • • • 35
	GENERAL LIST OF OTHER POSSIBLE SPARE PARTS	•••••55 , 55
	GFCI RECEPTACLES · · · · · · · · · · · · · · · · · · ·	• • • • • 12
	GLOBE, FOR ALARM LIGHT • • • • • • • • • • • • • • • • • • •	••••• 10 , 12
	HEATER • • • • • • • • • • • • • • • • • • •	
	HEATER COILS (OVERLOAD COILS) • • • • • • • • • • • • • • • • • • •	• • • • • 18
	HINGE, CONTINUOUS···································	
	H-O-A (HAND-OFF-AUTO) SWITCH · · · · · · · · · · · · · · · · · · ·	• • • • • 25
	HOLLOW ELECTRODES · · · · · · · · · · · · · · · · · · ·	
	HOOD	
	HOOD LIFT ASSIST RETROFIT KIT · · · · · · · · · · · · · · · · · · ·	
	HOOD LIFT ASSIST REPLACEMENT SHOCKS	
	HOOD (FIBERGLASS) REPAIR KIT • • • • • • • • • • • • • • • • • • •	
	HORN	
	HOW TO CHANGE A SINGLE MECHANICAL SEAL VIDEO • • • • • • • • • • • • • • • • • • •	
	IMPELLER BOLTS & WASHERS • • • • • • • • • • • • • • • • • • •	
	IMPELLERS · · · · · · · · · · · · · · · · · · ·	
	INDICATOR LIGHT • • • • • • • • • • • • • • • • • • •	
	INSULATOR BOOT · · · · · · · · · · · · · · · · · ·	
	INTRINSICALLY SAFE RELAY • • • • • • • • • • • • • • • • • • •	
	KEYSTOCK (MOTOR SHAFT KEY) • • • • • • • • • • • • • • • • • • •	
	LIFTING STANCHION · · · · · · · · · · · · · · · · · · ·	
	LIGHTNING PROTECTION · · · · · · · · · · · · · · · · · · ·	• • • • • 12
	LIGHTS · · · · · · · · · · · · · · · · · · ·	• • • • • 12



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

<u>PARI</u>	NAME PAGE
	LIGHTS, ALARM · · · · · · · · · · · · · · · · · · ·
	LIGHTS, FIXTURE • • • • • • • • • • • • • • • • • • •
	LINE STRAINER (VAPOR FILTER) • • • • • • • • • • • • • • • • • • •
	LOUVER, AIR VENT FOR HOOD • • • • • • • • • • • • • • • • • •
	MECHANICAL SEALS, SINGLE • • • • • • • • • • • • • • • • • • •
	MECHANICAL SEALS, DOUBLE
	MECHANICAL SEAL VIDEO, HOW TO CHANGE • • • • • • • • • • • • • • • • • • •
	MOTOR ADAPTERS
	MOTOR SHAFT KEY (KEYSTOCK) · · · · · · · · · · · · · · · · · · ·
	MOTORS 24
	MOUNTING STRAP FOR BREAKERS · · · · · · · · · · · · · · · · · · ·
	NAME PLATE FOR SERIAL NUMBERS • • • • • • • • • • • • • • • • • • 37
	O&M'S • • • • • • • • • • • • • • • • • • •
	OVERLOAD COILS · · · · · · · · · · · · · · · · · · ·
	PAINT • • • • • • • • • • • • • • • • • • •
	PHASE MONITOR RELAYS · · · · · · · · · · · · · · · · · · ·
	PLUG VALVES · · · · · · · · · · · · · · · · · · ·
	PLUG VALVE WRENCH•••••••52
	POWER SUPPLY 24 VOLT
	PRESSURE SWITCH, STATION FLOODING
	PRESSURE TRANSDUCERS/SENSORS, SUBMERSIBLES • • • • • • • • • 13  PROTRONIX® I • • • • • • • • • • • • • • • • • •
	PROTRONIX® II · · · · · · · · · · · · · · · · · ·
	PUMP ALTERNATOR · · · · · · · · · · · · · · · · · · ·
	PUMP FAILURE ALARM · · · · · · · · · · · · · · · · · · ·
	PUMP PARTS & STANDS · · · · · · · · · · · · · · · · · · ·
	QUICK DISCONNECT FITTINGS • • • • • • • • • • • • • • • • • • •
	RECTIFIER/DIODE – RESISTOR – CAPACITOR • • • • • • • • • • • • • • • • • • •
	REDUCED MAINTENANCE VACUUM PRIMING SYSTEM KITS • • • • • • • • 41, 45
	RELAYS
	RESISTOR – CAPACITOR – RECTIFIER/DIODE • • • • • • • • • • • • • • • • • • •
	RUNNING TIME METER (RUNNING TIME HOUR METER)• • • • • • • • • • 14
	SEALS, SINGLE MECHANICAL · · · · · · · · · · · · · · · · · · ·
	SHADE AIDE™····································
	SHOCKS (LOCKING & NON-LOCKING) · · · · · · · · · · · · · · · · · · ·
	SINGLE PISTON VACUUM PUMP • • • • • • • • • • • • • • • • • • •
	SINGLE MECHANICAL SEAL • • • • • • • • • • • • • • • • • • •
	SLINGER RINGS (for Motor Shaft) • • • • • • • • • • • • • • • • • • •
	SOLENOID VALVES
	SOLID ELECTRODE• • • • • • 42, 42
	SONIC START® KITS · · · · · · · · · · · · · · · · · · ·



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

PART	NAME	<b>PAG</b>	E
	SONIC START® OPERATING MODULE	• 14, 41	
	SONIC START® REPLACEMENT PARTS • • • • • • • • • • • • • • • • • • •	• 47	
	SONIC START® REPLACEMENT PROBE · · · · · · · · · · · · · · · · · · ·	• 46	
	SONIC START® STREAMLINE™ DELAY TIMER	• 13, 25	
	SONIC START® · · · · · · · · · · · · · · · · · · ·	• 46	
	SONIC START® VACUUM DOME ASSEMBLY	• 47	
	SPARE PARTS, GENEARL LIST OF OTHER POSSIBLE • • • • • • • • • • • • • • • • • • •	• 55, 55	
	SPARE PARTS, SUGGESTED LIST · · · · · · · · · · · · · · · · · · ·	• 55	
	SPRING LOADED WAFER CHECK VALVE	• 52	
	STARTERS	• 16,  17	
	STATION FLOODING PRESSURE SWITCH • • • • • • • • • • • • • • • • • • •	• 10, 2	5
	STRAINER, LINE (VAPOR FILTER) • • • • • • • • • • • • • • • • • • •	• 51	
	SUGGSTED LIST OF SPARE PARTS	• 55	
	SWITCHES	• 25	
	SWITCHES, FLOAT••••••••	• 11	
	SWITCHES, PRESSURE • • • • • • • • • • • • • • • • • • •	• 10, 2	5
	TEE••••••	• • • • 30	
	TEMPERATURE CONTROL (THERMODISC) • • • • • • • • • • • • • • • • • • •	• 25	
	THERMOSTAT SWITCH, FOR HEATER • • • • • • • • • • • • • • • • • • •	• 25	
	TIMER • • • • • • • • • • • • • • • • • • •	• 25	
	TOGGLE SWITCH (ON/OFF) · · · · · · · · · · · · · · · · · ·		
	TOUCH-UP PAINT	• 37	
	TRAINING VIDEO, HOW TO CHANGE A SINGLE MECH SEAL	• 37	
	TRANSFORMER	,	
	TUBING, VACUUM • • • • • • • • • • • • • • • • • •	• 51	
	UNAUTHORIZED ENTRY ALARM	·• 10	
	VACUUM-AIR PRESSURE GAUGES · · · · · · · · · · · · · · · · · · ·	• 35	
	VACUUM DOMES•••••••	• 47, 48	
	VACUUM PUMP RELAY······	• 11, 14	
	VACUUM PUMPS · · · · · · · · · · · · · · · · · · ·	• 48 - 51	
	VACUUM TUBING · · · · · · · · · · · · · · · · · · ·	• 51	
	VACUUM TUBING FITTINGS · · · · · · · · · · · · · · · · · · ·	• 51	
	VALVES, FLOAT CHECK · · · · · · · · · · · · · · · · · · ·	• 44	
	VALVES, PLUG······	• 52	
	VALVES, SOLENOID · · · · · · · · · · · · · · · · · · ·	• 46	
	VALVES, WAFER CHECK VALVE		
	VAPOR FILTERS · · · · · · · · · · · · · · · · · · ·	• 51	
	VENTILATION BLOWER••••••	• 33	
	VERSAPOX®, PAINT · · · · · · · · · · · · · · · · · · ·	• 37	
	VIBRATION ISOLATOR · · · · · · · · · · · · · · · · · · ·	• 49	
	VIDEOS – DVD & VHS · · · · · · · · · · · · · · · · · · ·	• 38	



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

PART NAME	PA	<u>GE</u>
VOLTAGE SUPPRESSOR • • • • • • • • • • • • • • • • • • •	• 25	
VOLUTE GASKETS · · · · · · · · · · · · · · · · · · ·	• 34	
VOLUTES ••••••	• 26	- 29
WAFER CHECK VALVES & SPARE PARTS	• 52	- 54



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA **After Market Parts Price Book** Section 3 WWMPS Parts 3/1/21 Page 6

#### After Market Parts Catalog

# Wet Well Mounted Pump Stations S&L Product codes: 15, 16, 25, 28, 30 (First Two Numbers of Station Serial Number)

PART NAME	<u>PAGE</u>
ELECTRICAL COMPONENTS	
ALARMS	• 10
ALTERNATORS, PUMP•••••••	• 11
CR RELAYS (VACUUM PUMP RELAY)•••••••	• 11
ER RELAYS (ELECTRODE RELAY)	
FLOAT (DISPLACEMENT) SWITCHES	
FLOAT SWITCHES, CORD CONNECTOR • • • • • • • • • • • • • • • • • • •	• 12
GFCI RECEPTACLES · · · · · · · · · · · · · · · · · · ·	• 12
HEATER • • • • • • • • • • • • • • • • • • •	• 12
LIGHTNING PROTECTION · · · · · · · · · · · · · · · · · · ·	• 12
LIGHTS	• 12
PUMP FAILURE ALARM • • • • • • • • • • • • • • • • • • •	• 12
PHASE MONITOR RELAYS	• 13
PROTRONIX® I · · · · · · · · · · · · · · · · · ·	
PROTRONIX® II · · · · · · · · · · · · · · · · · ·	•13
EXPANSION CARD	
RECTIFIER(DIODE) – RESISTOR – CAPACITOR • • • • • • • • • • • • • • • • • • •	
RELAYS·····	
RUNNING TIME HOUR METER • • • • • • • • • • • • • • • • • • •	
SOLENOID VALVES · · · · · · · · · · · · · · · · · · ·	
STARTERS - NEMA••••••••	
STARTERS - IEC	
OVERLOAD COILS••••••••••••••••••••••••••••••••••••	
BREAKERS, THREE PHASE MOTOR CIRCUIT BREAKERS	
BREAKERS, SINGLE PHASE MOTOR CIRCUIT BREAKERS	
BREAKERS – "QUICKLAG C" TYPE •••••••	,
BREAKER MOUNTING STRAPS – "QUICKLAG C" TYPE········	
BREAKERS – THERMAL MAGNETIC "EHD" TYPE • • • • • • • • • • • • • • • • • • •	
BREAKERS- MCP MOTOR CIRCUIT PROTECTOR • • • • • • • • • • • • • • • • • • •	
MOTORS	
TEMPERATURE CONTROL (THERMODISC) • • • • • • • • • • • • • • • • • • •	
TIMER	
TRANSFORMER	
SWITCHES	• 25

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

<b>PART</b>	NAME	PAGE
	VOLTAGE SUPPRESSOR · · · · · · · · · · · · · · · · · · ·	•••••••25
COUPI	LING	
D	RESSER COUPLING • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • 26
	FTING STANCHION · · · · · · · · · · · · · · · · · · ·	
MECH	ANICAL, PIPING, & PARTS	
	PUMP PARTS	
	Includes: shaft diameter, impeller, maximum diameter, Suction Side	e - Diameter Eye, front hea
	pump stand, volute, gaskets, motor adapter, impeller bolt, impeller to	washer.
	4B2B, TURBO 4B2C, 4B2D, 4B3B, 4C2B, 4C2D • • • • • • • • • • • • • • • • • • •	•••••26
	4C3B, 4D3B, 4D4B, 6B3B, 6B3B (SERIES), 6C3B • • • • • • • • •	•••••27
	6C3B (SERIES), 6D3B, 6D3B (SERIES), 8C4D, 8D4D • • • • • • •	•••••28
	MECHANICAL SEALS	
	B-SHAFT (11/4") (Seals & Spare Parts) · · · · · · · · · · · · · · · · · · ·	30
	C-SHAFT (21/8") (Seals & Spare Parts) • • • • • • • • • • • • • • • • • • •	
	D-SHAFT (3") (Seals & Spare Parts) · · · · · · · · · · · · · · · · · · ·	
	TEE, DISCHARGE	
	DOUBLE BALANCED (High Head) MECHANICAL SEALS•••••	31
	VOLUTE GASKETS	
DIIMD	IMPELLERS	
PUIVIP		00
	IMPELLERS · · · · · · · · · · · · · · · · · · ·	
	X-PELLER® IMPELLERS • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
OTHER	R PARTS	
	BLOWER · · · · · · · · · · · · · · · · · · ·	• • • • • • • • • 33
	EMERGENCY KIT • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
	CONTINUOUS HINGE & BACKING BAR RETROFIT KIT • • • •	• • • • • • • • 33
	GAS CYLINDER, BALL STUD & SAFETY CLIP • • • • • • • • • • • • • • • • • • •	• • • • • • • • 33
	GASKETS · · · · · · · · · · · · · · · · · · ·	
	GASKETS, VOLUTE····································	• • • • • • • • • • • • • • • • • • • •
	GAUGES, AIR PRESSURE•••••••••••••••••••••••••••••••••	
	GAUGES, COMBO – VACUUM/AIR PRESSURE • • • • • • • • • • • • • • • • • • •	• • • • • • • • 35
	GAUGES, WATER••••••••	• • • • • • • • • 35



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

PART NAME	PAGE
HOOD•	••••••35
OTHER PARTS (CONTINUED)	
HOOD (FIBERGLASS) REPAIR KIT • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • 35
HOOD LIFT ASSIST RETROFIT KIT • • • • • • • • • • • • • • • • • • •	• • • • • • • • • 35
HOOD LIFT ASSIST REPLACEMENT SHOCKS • • • • • • •	• • • • • • • • • • • • • • • • • • • •
KEYSTOCK (MOTOR SHAFT KEY)	•••••36
LOUVER – VENT IN HOOD• · · · · · · · · · · · · · · · · · · ·	•••••••
NAME PLATE FOR S&L SERIAL NUMBERS • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • 37
O&M'S • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • 37
PAINT (VERSAPOX® & TOUCH-UP KITS) • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • 37
RECTANGULAR GASKETS • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • 37
SHADE AIDE™ (HMI SCREEN SUN BLOCKER) · · · · · ·	• • • • • • • • • 37
SLINGER RINGS (for Motor Shaft) • • • • • • • • • • • • • • • • • • •	• • • • • • • • • 38
VIDEOS – TRAINING ON SINGLE MECHANICAL SEAL.	•••••38
VACUUM PRIMING SYSTEM	
ELECTRODE DOMES	
ELECTRODE DOME ASSEMBLIES	
ELECTRODE DOME CONVERSION KITS	
ELECTRODE RELAYS 0 ER1 & ER2 · · · · · · · · · · · · · · · · · · ·	
ELECTRODES	
ELECTRODES - NEW STYLE SOLID SS ELECTRODE • •	
ELECTRODES - OLDEST STYLE (FOR DOMES WITH 2 H	,
ELECTRODES – OLDER STYLE HOLLOW SS ELECTRO	
FLOAT CHECK VALVES	
FLOAT CHECK VALVES – OLDER STYLE · · · · · · · · · · · · · · · · · · ·	
SOLENOID VALVES · · · · · · · · · · · · · · · · · · ·	
SONIC START® KITS	
SONIC START® REPLACEMENT PARTS	
SONIC START® VACUUM DOME ASSEMBLY	
SONIC START® VACUUM DOME INDIVIDUAL PARTS - P VIBRATION ISOI ATOR · · · · · · · · · · · · · · · · · · ·	
VACUUM PUMP - HEAVY DUTY - SINGLE PISTON & SPA	
VACUUM PUMP - STANDARD - SINGLE PISTON & SPAR	
VACUUM PUMP - HEAVY DUTY - DUAL PISTON & SPAR	
OLD VACUUM PUMP DUAL PISTON SPARE PARTS ONL	
VACUUM TUBING FITTINGS	
VACUUM TUBING FITTINGS••••••••••••••••••••••••••••••••••••	
	21 Smith & Loveless, Inc.



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

PART NAME	PAGE

<b>VALVE</b>	S
	PLUG VALVES • • • • • • • • • • • • • • • • • • •
	PLUG VALVE WRENCH • • • • • • • • • • • • • • • • • • •
	WAFER CHECK VALVES, SPRING LOADED • • • • • • • • • • • • • • 52
	WAFER CHECK VALVES, 4", SPARE PARTS • • • • • • • • • • • • • 53
	WAFER CHECK VALVES, 6", SPARE PARTS • • • • • • • • • • • • 54
<b>PARTS</b>	LIST
	SUGGESTED SPARE PARTS LIST55
	GENERAL LIST OF OTHER POSSIBLE SPARE PARTS



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 10

#### **ELECTRICAL COMPONENTS**

ALARMS	
PART DESCRIPTION	PART #
Station Flooding Pressure Switch	4L178
Telephone Line 8 Pin Relay for Remote Alarm Panel	4L191
Socket Base, 8 Pin, for 4L191 relay	5L49B
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 for Alarm Light	5L76 *
Light Fixture Adapter for Alarm Light	5L77 *
Red Globe for 5L77 for Alarm Light	5L78B *
Globe Guard for 5L77 for Alarm Light	5L79 *
Trickle Charger (CURRENT) Can be used in place of 4L222	4L222C**
Trickle Charger (OLD STYLE)	4L222

<sup>\* &</sup>lt;u>PARTS ORDERING NOTE:</u> Must identify as either Appleton or Killark \*\*Consult the factory.

•

PART DESCRIPTION	PART #
Unauthorized Entry Alarm Assembly. Required parts & quantities called out below.	
Right hand switch assembly	87B397 <i>A</i>
Cable Assembly	87B365
Flat Washers (2 required)	6L61F
Galvinized Nylock Nut (2 required)	6L104D
Uninsulated Hood Cap Screw (2 required)	6L20CD
Insulated Hood Cap Screw (2 required)	6L20CH
Assembly Drawing (See Section 6)	87B402
Control Panel Requirements:	
Keyed Selector Switch	4L366A
Switch Contact Block	4L14A
On-Delay Timer	4L304A
Timer Base	5L49B



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 11

#### **ELECTRICAL COMPONENTS (CONTINUED)**

ALTERNATORS, PUMP	
PART DESCRIPTION	PART#
Alternator for older stations – plug-in with 12 pin rectangular base (replaces 4L187) (Can also be modified to PN 4L187B. Requires wiring modifications.)	4L187A
Socket Base, 12 pin rectangular, for Alternator 4L187A	5L161
Alternator (orange) for newer stations – plug-in with 11 pin round base	4L187B
Socket Base, 11 pin round, for Alternator 4L187B	5L49C
Alternator/Timer for old stations, 2 Switches, Wire-in 16 Hour (8 on/off) (Replaces Zenith 4L282A)	4L343 *
Alternator/Timer for new stations, 1 Switch, Wire-in 16 Hour (8 on/off)	4L365A
Relay, Alternator	4L105A

<sup>\*</sup> PARTS ORDERING NOTE: Customer will require wiring installation instructions if this replaces a 4L282A

#### **CONTACTORS**

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

CR RELAYS (VACUUM PUMP RELAY)	
PART DESCRIPTION	PART#
Relay, for Vacuum Pump (1CR, 2CR) (replaces 4L107A)	4LI07F
Relay, for Vacuum Pump (1CR, 2CR) "Series Stations"	4L424A

<sup>\*</sup> Replaces 4L107A. Requires wiring modification.

ER RELAYS (ELECTRODE RELAY)		
PART DESCRIPTION	PART #	
Relay, for Electrode current style - (1ER, 2ER)	4L408F (Adjustable)	
(requires modification if replacing 4L29 or 4L408)	or 4L408Q	
Relay, for Electrode – (1ER, 2ER) Older Style	4L29* or 4L408Q	
(determine which part is needed)		
Socket Base, 8 pin for 4L29 Relay	5L49B	

<sup>\*</sup> If customer switches to 4L408Q, or **SONIC START® STREAMLINE™** from the 4L29 Electrode Relay, the Rectifier/Diode, Resistor & Capacitor are no longer required in the control panel.

FLOAT (DISPLACEMENT) SWITCHES	
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
Mercury-Free (Normally Open, Normally Closed) 40ft cord	4L291F



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 12

4L368

4L369

#### **ELECTRICAL COMPONENTS** (CONTINUED)

CORD CONNECTOR, FOR FLOAT SWITCHES	
PART DESCRIPTION	PART #
Cord Connector, Float Switch Adjustment	5L57C

GROUND FAULT CIRCUIT INTERRUPTER (GFCI) RECEPTACL	.ES	
PART DESCRIPTION	PART#	
GFCI Receptacle, 15 Amp, Color: Ivory	5L269C	
GFCI Receptacle, 20 Amp, Color: Ivory	5L269D	
GFCI Receptacle, 20 Amp, Color: Black	5L269E	
HEATER		
PART DESCRIPTION	PART #	
Heater, Strip/Panel Mount 120 Volt 500 Watt (Replaces 4L276)	OBSOLETE	
(OBSOLETE P/N 4L364 replaced with P/N 4L364A)	OBSOLLIL	
Heater, Strip/Panel Mount with Thermostat – UL Listed 120 Volt 500 Watt	4L364A	
Heater, Auxiliary, with Fan, 120 Volt 1320/1650 Watt	4L84	
Fan Motor for 4L84 Heater	OBSOLETE	
Thermostat Switch for 4L84 Heater	OBSOLETE	
LIGHTNING PROTECTION		
PART DESCRIPTION	PART #	

#### LIGHTS

Surge Capacitor

Lightning Arrestor

PART DESCRIPTION	PART #
Light, Red Neon, Indicator Light for Panel (Replaces 5L243)	4L293A
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 for Alarm Light	5L76 *
Light Fixture Adapter for Alarm Light	5L77 *
Red Globe for 5L77 for Alarm Light	5L78B *
Globe Guard for 5L77 for Alarm Light	5L79 *

<sup>\*</sup> PARTS ORDERING NOTE: Must identify as either Appleton or Killark



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 13

#### ELECTRICAL COMPONENTS (CONTINUED)

PHASE MONITOR RELAYS	,
PART DESCRIPTION	PART#
Phase Monitor, Voltage: 190 to 270	4L336A
Phase Monitor, Voltage: 430 to 480	4L336B
POWER SUPPLY – 24 VOLT	
Powers all 24 volt panel components	
PART DESCRIPTION	PART #
Power Supply, 24 VDC (2.3 Amp rating)	41.4507
(PN 4L452C OBSOLETE)	4L452Z
PRESSURE TRANSDUCERS/SENSORS, SUBMERSIBLE (Submersible Pressure Transducer hangs down from the pump station and into the wet well, in a switches used for back-up. Both are used for wet well level sensing.)	addition to the float
PART DESCRIPTION	PART#
0-15 PSI, Submersible Pressure Transducer – 25' Cord (old style)	See
(Old PN: 4L563B-Now 4L563J + reprogrammed E-PROM through Retrofit)	Retrofit
0-7.5 PSI, Submersible Pressure Transducer – 30' Cord (Replaces 4L563A) (CURRENT STYLE) (Replaces 4L563C).	4L563J

PROTRONIX CONTROLLER	
PART DESCRIPTION	PART#
PROTRONIX® II Input/Output Module (8 In/8 Out) Expansion Card	4L536C-2
PROTRONIX® II Controller - 4L452C-1 (SOLD THRU RETROFIT ONLY)	Call Retrofits

<sup>\*</sup>Note: 87B397A & 87B397B are only switches & do not include parts required for initial installation of the pump failure alarm. Customer must verify that they have already installed a pump failure alarm. Otherwise, you will either need H87A376, H87A383A, or H87A383B.



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 14

#### **ELECTRICAL COMPONENTS (CONTINUED)**

#### **RECTIFIER [DIODE] - RESISTOR - CAPACITOR**

(only used with 4L29\* electrode relay)

PART DESCRIPTION	PART#
Rectifier Replacement Kit (includes rectifier [diode], capacitor, & resistor)	80A145
Rectifier [Diode], 21/2 Amp max.	4L107F
Resistor, 5K Ohm, 31/4 Watt	4L278A
Capacitor, 20 MF rating	4L277A

<sup>\*</sup>If customer switches to 4L408, 4L408H, or **SONIC START® STREAMLINE™** from the 4L29 Electrode Relay, the Rectifier/Diode, Resistor & Capacitor are no longer required in the control panel.

RELAYS	
PART DESCRIPTION	PART#
Relay, for Alternator	4L105A
Relay, for Vacuum Pump (1CR, 2CR)	4L107F
Relay, for Vacuum Pump (1CR, 2CR) "Series Stations"	4L424A
Relay, Vacuum Pump (series station )	4L424A/4L609C
Relay, Intrinsically Safe Relay (Replaces 4L279A)	4L374
Relay, for Electrode (1ER, 2ER) Current Style	4L408Q
(requires modification if replacing 4L29 or 4L408)	
Relay, for Electrode – (1ER, 2ER) Older Style	4L29* OR 4L408Q
(determine which part is needed)	
Socket Base, 8 pin for 4L29 Relay	5L49B
Relay, SONIC START® Operating Module	4L264
SONIC START® STREAMLINE™ Delay Timer	4L406B

<sup>\*</sup> If customer switches to 4L408, 4L408H, or **SONIC START® STREAMLINE™** from the 4L29 Electrode Relay, the Rectifier/Diode, Resistor & Capacitor are no longer required in the control panel.

RUNNING TIME METER	
PART DESCRIPTION	PART#
Running Time Meter-NEMA 12- Fits through round hole	4L198A
Door Mount Unit	4L 190A
Running Time Meter-NEMA 3R-Rectangular	4L198C



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 15

#### **ELECTRICAL COMPONENTS (CONTINUED)**

PART DESCRIPTION	PART#
SONIC START® STREAMLINE™ Vacuum Dome for Pump Stations (NEWEST Solenoid Dome Arrangement)	87B728
2-Way Solenoid Valve (5/16" orifice) (Newest Solenoid – Upgrade from 1L406A & 1L406E Style)	1L545A remote mounted using standard DIN connection and used on SONIC START® STREAMLINE™ Vacuum Dome
DIN Connector for 1L545A with 8' cord (OLD P/N: 1L545A-1) (Required for initial installation of 1L545A)	87A481-STK
Solenoid Clip (top piece removed when solenoid opened, clip holds unit in place)	1L545A-3
2-Way Solenoid Valve (5/16" orifice) Newest Solenoid – Upgrade from 1L406A & 1L406E Style)	1L545B conduit connection mounted through panel & backpan
Solenoid Clip (top piece removed when solenoid opened, clip holds unit in place)	1L545A-3
Reduced Maintenance Vacuum Priming System Retrofit Kit	OBSOLETE
2-Way Solenoid Valve (5/16" orifice) (Old PN: H87A343A) (Newest – Upgrade from 1L406A & 1L406E Style)	OBSOLETE
3-Way Solenoid Valve (3/32" orifice) (Replaced Old Style 1L299A, 1L349A, 1L406A, & 1L406E) Current S&L standard solenoid valve is the PN 1L545A remote mounted needs DIN connector PN 1L545A-1 or PN1L545B that mounts through control panel and backpan. Conduit Connection, Ref: 87B16.)	1L406K*
Conduit Nut for 3-Way Solenoid Valve (required when ordering 1L406E first time)	5L13A*
Valve Sleeve Wrench for 1L406A	1L406W
Valve Sleeve Wrench for 1L406E	1L406EW

<sup>\*1</sup>L406K and 5L13A must be ordered together



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 16

#### **ELECTRICAL COMPONENTS (CONTINUED)**

#### **NEMA RATED STARTERS – 4L421\***

Motor Horsepower	208 Volts	230 Volts	460 Volts
	Part Numbers	Parts Numbers	Parts Numbers
<sup>3</sup> / <sub>4</sub> & 1	4L421A	4L421A	4L421A
1½	4L421A	4L421A	4L421A
2	4L421A	4L421A	4L421A
3	4L421A	4L421A	4L421A
5	4L421B	4L421B	4L421B
7½	4L421B	4L421B	4L421B
10	4L421C	4L421C	4L421B
15	4L421D	4L421C	4L421C
20	4L421D	4L421D	4L421C
25	4L421D	4L421D	4L421C
30	4L421E	4L421D	4L421D
40	4L421E	4L421E	4L421D
50	4L421F	4L421E	4L421D
60	4L421F	4L421F	4L421E
75	4L421F	4L421F	4L421E
100	Special Order	4L421F	4L421E

**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.

<sup>\*</sup>Call Factory for dimensions if replacing older starters



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 17

#### **ELECTRICAL COMPONENTS (CONTINUED)**

#### STARTERS - I.E.C. STARTERS - 4L420

MOTOR	208 V	OLTS	230 V	OLTS	460 V	OLTS
HORSEPOWER	PART#	OPTION#	PART#	OPTION #	PART #	OPTION #
<sup>3</sup> / <sub>4</sub> & 1	4L420D	03	4L420D	03	4L420D	03
1½	4L420D	03	4L420D	03	4L420D	03
2	4L420D	03	4L420D	03	4L420D	03
3	4L420D	03	4L420D	03	4L420D	03
5	4L420E	04	4L420D	03	4L420D	03
7½	4L420G	05	4L420E	04	4L420D	03
10	4L420H	06	4L420G	05	4L420D	03
15	USE 4L420H 06		4L420E	04		
20	<b>★</b> NEMA			4L420G	05	
25	RATED					
30				S	TARTERS	

**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.

**NOTE:** Use NEMA rated starters if dimensions are checked and will fit in panel.

Requirements for 208 volts: 15 hp or higher select 480 volt options as noted.

Requirements for 230 volts: 20 hp or higher select 480 volt options as noted.



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 18

#### **ELECTRICAL COMPONENTS (CONTINUED)**

OVERLOAD COILS – I.E	.C. & NEMA STARTER	RS*	
Motor Horsepower	208 Volts Part Number	230 Volts Part Number	460 Volts Part Number
3/4	4L413H	4L416G	4L413E
1	4L413H	4L413H	4L413F
1½	4L413J	4L413J	4L413G
2	4L413K	4L413K	4L413H
3	4L413L	4L413L	4L413J
5	4L413M	4L413M	4L413K
7½	4L413N	4L413N	4L413L
10	4L413P	4L413P	4L413M
15	4L413R	4L413Q	4L413N
20	4L413T	4L413X	4L413P
25	4L413Y	4L413Y	4L413Q
30	4L413Z	4L413Y	4L413W
40	4L413AA	4L413Z	4L413X
50		4L413AA	4L413Y
60			4L413Y
75			4L413Z
100			4L413AA

**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.

<sup>\*</sup>Call Factory for dimensions if replacing older starters



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 19

#### **ELECTRICAL COMPONENTS (CONTINUED)**

#### THREE PHASE MOTOR CIRCUIT BREAKERS -

Use when increasing or decreasing horsepower.

Motor HP	208 Volts	230 Volts	460 Volts
	Part Numbers	Parts Numbers	Parts Numbers
<sup>3</sup> / <sub>4</sub> & 1	4L202B	4L202B	4L258CA
1½	4L202B	4L202B	4L258CA
2	4L202B	4L202B	4L258CA
3	4L202C	4L202C	4L258CA
5	4L202F	4L202E	4L258CA
7½	4L202H	4L202H	4L258CB
10	4L202L	4L202K	4L258CE
15	4L202M	4L202M	4L258CG
20	4L202N	4L202N	4L258CH
25	4L164G	4L164G	4L258CJ
30	4L164G	4L164G	4L258CK
40	-	4L164G	4L258CL
50	-	-	4L164F
60	-	-	4L164G
75	-	-	4L164G

REQUIREMENTS FOR 208 VOLTS: 40 HP OR HIGHER SELECT 480 VOLT OPTIONS AS NOTED.

REQUIREMENTS FOR 230 VOLTS: 50 HP OR HIGHER SELECT 480 VOLT OPTIONS AS NOTED.

#### SINGLE PHASE MOTOR CIRCUIT BREAKERS -

Use when increasing or decreasing horsepower.

	230 Volts
Motor HP	Parts Numbers
1/4	4L218B
1/3	4L218B
1/2	4L218B
3/4	4L218B
1	4L218B
1½	4L218C
2	4L218E
3	4L218G
5	4L218J

<sup>\*</sup>CALL FACTORY for Circuit breakers with locks 87A210 or 87A211



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 20

#### **ELECTRICAL COMPONENTS (CONTINUED)**

### BREAKERS – "QUICKLAG C" TYPE, SINGLE POLE, 5000 AMPERE INTERRUPTING CAPACITY, 120/240 VAC

#### (TYPICALLY CONTROLS CIRCUIT BREAKER)

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
Handle Tie (California)	4L82P
30, Continuous MilliAmp Rating	4L82Q
5, Continuous MilliAmp Rating	4L82R

### BREAKERS – "QUICKLAG C" TYPE, AB DE-LON, 2 POLE, 10-100 AMPERES, 240 VAC

### (TYPICALLY TRANSFORMER CIRCUIT BREAKER OR SINGLE PHASE PUMP MOTORS)

PART DESCRIPTION	PART #
10, Continuous Amp Rating	4L218A
15, Continuous Amp Rating	4L218B
20, Continuous Amp Rating	4L218C
25, Continuous Amp Rating	4L218D
30, Continuous Amp Rating	4L218E
35, Continuous Amp Rating	4L218F
40, Continuous Amp Rating	4L218G
50, Continuous Amp Rating	4L218H
60, Continuous Amp Rating	4L218J
70, Continuous Amp Rating	4L218K
90, Continuous Amp Rating	4L218L
100, Continuous Amp Rating	4L218M
Breaker Handle Lock – "Quicklag C" Type	4L403

<u>PARTS ORDERING NOTE:</u> Each time a Breaker is ordered as a part or with a retrofit, a Breaker Handle Lock is required.



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 21

#### **ELECTRICAL COMPONENTS (CONTINUED)**

BREAKERS – "QUICKLAG C" TYPE, AB DE-LON, 2 POLE, 10-100 AMPERES, 480 VAC

### (TYPICALLY TRANSFORMER CIRCUIT BREAKER OR SINGLE PHASE PUMP MOTORS)

PART DESCRIPTION	PART #
15, Continuous Amp Rating	4L258BA
20, Continuous Amp Rating	4L258BB
25, Continuous Amp Rating	4L258BC
30, Continuous Amp Rating	4L258BD
35, Continuous Amp Rating	4L258BE
40, Continuous Amp Rating	4L258BF
50, Continuous Amp Rating	4L258BG
60, Continuous Amp Rating	4L258BH
70, Continuous Amp Rating	4L258CJ
80, Continuous Amp Rating	4L258BK
90, Continuous Amp Rating	4L258BK
Breaker Handle Lock – "Quicklag C" Type	4L403

**PARTS ORDERING NOTE:** Each time a Breaker is ordered as a part or with a retrofit, a Breaker Handle Lock is required.



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 22

### BREAKERS – "QUICKLAG C" TYPE, AB DE-LON, 3 POLE, 10-100 AMPERES, 240 VAC

#### (TYPICALLY USED WITH 3 PHASE PUMP MOTORS 240 AND BELOW)

PART DESCRIPTION	PART #
10, Continuous Amp Rating *	4L202A **
15, Continuous Amp Rating	4L202B
20, Continuous Amp Rating	4L202C
25, Continuous Amp Rating	4L202D
30, Continuous Amp Rating	4L202E
35, Continuous Amp Rating	4L202F
40, Continuous Amp Rating	4L202G
45, Continuous Amp Rating	4L202P
50, Continuous Amp Rating	4L202H
55, Continuous Amp Rating	4L202J
60, Continuous Amp Rating	4L202K
70, Continuous Amp Rating	4L202L
80, Continuous Amp Rating	4L202Q
90, Continuous Amp Rating	4L202M
100, Continuous Amp Rating	4L202N
Breaker Handle Lock – "Quicklag C" Type	4L403

PARTS ORDERING NOTE: Each time a Breaker is ordered as a part or with a retrofit, a Breaker Handle Lock is required.

MOUNTING STRAP FOR BREAKERS – "QUICKLAG C" TYPE		
PART DESCRIPTION	PART #	
Mounting Strap	4L83	

<sup>\*</sup> Not UL Listed

<sup>\*\*</sup> Low Usage Item



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 23

#### **ELECTRICAL COMPONENTS (CONTINUED)**

BREAKERS – THERMAL MAGNETIC TYPE EHD, 1/2/3 POLE, 10-100 AMPS (15,000 AMPS INTERRUPTING CAPACITY)

(TYPICALLY USED WITH 3 PHASE PUMP MOTORS 480 VOLT)

AMP RATING @ 40°F (CONT.)	1-POLE 277 VAC (MAX.)	2-POLE 277 VAC (MAX.)	3-POLE 480 VAC (MAX.)
10 *	4L258AN **	4L258BN **	4L258CN **
15	4L258AA	4L258BA	4L258CA
20	4L258AB	4L258BB	4L258CB
25	4L258AC	4L258BC	4L258CC
30	4L258AD	4L258BD	4L258CD
35	4L258AE	4L258BE	4L258CE
40	4L258AF	4L258BF	4L258CF
45	4L258AP	4L258BP	4L258CP
50	4L258AG	4L258BG	4L258CG
60	4L258AH	4L258BH	4L258CH
70	4L258AJ	4L258BJ **	4L258CJ
80	4L258AQ	4L258BQ	4L258CQ
90	4L258AK	4L258BK	4L258CK
100	4L258AL	4L258BL	4L258CL
100 NA	4L258AM	4L258BM	4L258CM
Breaker Handle Lock – "EHD" Type	4L404		
		-	

**PARTS ORDERING NOTE:** Each time a Breaker is ordered as a part or with a retrofit, a Breaker Handle Lock is required.

BREAKERS – MCP MOTOR CIRCUIT PROTECTOR, 3-POLE			
TRIP RANGE AMPS	<b>CONTINUOUS AMP RATING</b>	PART#	
100 – 300	30	4L164D	
160 – 480	50	4L164E	
275 – 1000	100	4L164F	
450 – 1550	150	4L164G	
Transformer	Breaker	4L218B	

<sup>\*</sup> Not UL Listed

<sup>\*\*</sup> Low Usage Item



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 24

#### **ELECTRICAL COMPONENTS (CONTINUED)**

**MOTORS - VERTICAL "P"** 

#### BASE PUMP MOTORS, TEFC, 3/60/208-230/460 VOLT

STANDARD SEAL

**PUMP MOTORS:** Call factory to determine correct motor requirements.

Station serial number required.

<sup>\*</sup>Need shaft size confirmation to determine correct motor

<sup>\*</sup>MOTORS — TEFC, Explosion-proof, Immersible call factory for sizing, pricing, and delivery



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 25

#### **ELECTRICAL COMPONENTS** (CONTINUED)

TEMPERATURE CONTROL (Thermodisc)	
PART DESCRIPTION	PART#
Temperature Control, 37° to 52° Heater	4L135B
Temperature Control, 90° to 75° Blower	4L135C
TIMER (also see Alternators)	
PART DESCRIPTION	PART#
Timer/Alternator for new stations, 2 Switches, Wire-in 16 Hour	
(8 on/off)	4L343 *
(Replaces Zenith 4L282A)	
Timer/Alternator for new stations, 1 Switch, Wire-in 16 Hour	4L365A
(8 on/off)	4L303A
Timer, 2 second delay (for Solenoid Valve, used with	4L406
Electrode Relay)	
Timer (small blue) with knob, 8 pin, 0.1 sec – 10 min on delay	4L304A
SONIC START® STREAMLINE™ Delay Timer	4L406B
* PARTS ORDERING NOTE: Customer will require wiring installation instructions if the	his replaces a 4L282A
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 5 KVA, 240/480 TO 120/240	4L402D 4L402E
5 KVA, 208 TO 120/240	4L402EA
SWITCHES	12.10227
PART DESCRIPTION	PART#
Alternator Selector Switch (4L207A, replaced by 4L23A)	See 4L23A
Float Switch (P/N 87A80 Obsolete-Replaced by 4L291A)	4L291A
Float Switch (Normally Open <b>Blue</b> ), 30 ft. cord	4L291A
Float Switch (Normally Closed <b>Red</b> ), 30 ft. cord	4L291B
Float Switch (Normally Open <b>Blue</b> ), 45 ft. cord	4L291C
H-O-A Toggle Switch (3 Position), SPDT	4L272A
Station Flooding Pressure Switch	4L178
Thermostat Switch for Heater	OBSOLETE
Toggle Switch (On/Off), SPST (Not UL Listed) (replaces 4L207A)	4L23A

#### VOLTAGE SUPPRESSOR

PART DESCRIPTION

Voltage Suppressor 4L139A - No longer used or required. Need to upgrade electrode relays to PN: 4L408Q

**OBSOLETE** 



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 26

#### **MECHANICAL, PIPING, & PARTS**

(DRESSER) COUPLING – TRANSITION COUPLING	G
PART DESCRIPTION	PART #
4" Nominal Pipe Size (Ductile Iron to Ductile Iron)	2L120A
4" Nominal Pipe Size (Ductile Iron to Steel or PVC)	2L120AA
4" Nominal Pipe Size (Steel to Steel or PVC)	2L120AAA
6" Nominal Pipe Size (Ductile Iron to Ductile Iron)	2L120B
6" Nominal Pipe Size (Ductile Iron to Steel or PVC)	2L120BB
6" Nominal Pipe Size (Steel to Steel or PVC)	2L120BBB
8" Nominal Pipe Size (Ductile Iron to Ductile Iron)	2L120C
8" Nominal Pipe Size (Ductile Iron to Steel or PVC)	2L120CC
8" Nominal Pipe Size (Steel to Steel or PVC)	2L120CCC
LIFTING STANCHION	
PART DESCRIPTION	PART#
Lifting Stanchion *	87B39A
Lifting Stanchion Connecting Pipe *	87B39B

\*PARTS ORDERING NOTE: Requires both the Lifting Stanchion & Lifting Stanchion Connecting Pipe to make one (1) Lifting Stanchion that inserts into the stantions Lifting Stanchion Sleeve.

PUMP PARTS	4B2B*1	TURBO 4B2C	4B2D*1
VERIFY ALL CASTED PARTS WITH FACTORY	Pump	Pump	Pump
Shaft Diameter	17/8"	17/8"	17⁄8"
Impeller, CW (Clockwise)	60B265A	87D103	60B269A
Impeller, CCW (Counter-Clockwise)	60B265B	87D104	60B269B
Maximum Diameter	10½"	101/8"	101⁄8"
Suction Side - Diameter Eye	4"	-	4"
Front Head	87C1-300	Part of Volute	4"- 87C1-300
Pump Stand	None	None	None
Volute (Some pumps have integral front heads. Call Factory before ordering to verify.)	87D3-300	60D230-300 (CW) 60D231-300 (CCW)	87D3-300
Volute Gasket (1/64 & 1/16 thickness available)	60A26 (1/32")	60A26 (1/32")	60A26 (1/32")
Volute/Elbow Gasket (Rectangular)	87A11	87A11	87A11
Volute/Base Gasket (Replaces 87A63)	60A108	60A108	60A108
Motor Adapter – Also sell S/N NAMEPLATE	60B165A-300	60B165A-300	60B165A-300
Impeller Bolt	60A12	60A12	60A12
Impeller Washer	60A20	60A20	60A20



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 27

#### MECHANICAL, PIPING, & PARTS (CONTINUED)

PUMP PARTS VERIFY ALL CASTED PARTS WITH FACTORY	4B3B*1 Pump	4C2B*1 Pump	4C2D*1 Pump
Shaft Diameter	11/8"	21/8"	21/8"
Impeller, CW (Clockwise)	60B272A	60B265C	60B269C
Impeller, CCW (Counter-Clockwise)	60B272B	60B265D	60B269D
Maximum Diameter	12"	101/8"	101/8"
Suction Side - Diameter Eye	4"	4"	4"
Front Head	4" – 60C85-300 6" – 60C87-300	4" - 87C1-300 87C200-300 ** 60C156-300 ***	4" - 87C1-300 87C200-300 ** 60C156-300 ***
Pump Stand	None	None	None
Volute (Some pumps have integral front heads. Call Factory before ordering to verify.)	60D249-300	60D249-300	60D252-300
Volute Gasket (1/64 & 1/16 thickness available)	60A28 (1/32")	60A26 (1/32")	60A26 (1/32"
Volute/Elbow Gasket (Rectangular)	87A11	87A11	87A11
Volute/Base Gasket (Replaces 87A63)	60A108	60A108	60A108
Motor Adapter – Also sell S/N NAMEPLATE	60B165D-300****	60B165B-300	60B165B-300
Impeller Bolt	60A12	60A12	60A12
Impeller Washer	60A20	60A20	60A20

<sup>\*</sup>Used only for 20 HP @ 1800 RPM Motors \*\*Used on

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

PUMP PARTS	4C3B*1	4D3B*1	4D4B*1
VERIFY ALL CASTED PARTS WITH FACTORY	Pump	Pump	Pump
Shaft Diameter	21/8"	3"	3"
Impeller, CW (Clockwise)	60B272C	60B272E	60D259
Impeller, CCW (Counter-Clockwise)	60B272D	60B272F	60D258
Maximum Diameter	12"	12"	15"
Suction Side - Diameter Eye	4"	4"	6"
Front Head	4" – 60C85-300 6" – 60C87-300	4" - 60C85-300 6" - 60C87-300	4" - n/a 6" - 60B124-300
Pump Stand	None	None	None
Volute (Some pumps have integral front heads. Call Factory before ordering to verify.)	60D249-300	60D249-300	60D252-300
Volute Gasket (1/64 & 1/16 thickness available)	60A28 (1/32")	60A28 (1/32")	60A106B (1/32")
Volute/Elbow Gasket (Rectangular)	87A11	87A11	87A11
Volute/Base Gasket (Replaces 87A63)	60A108	60A108	60A108
Motor Adapter – Also sell S/N NAMEPLATE	60B165E-300****	60B165M-300	60B118-300
Impeller Bolt	60A12	60A87	60A87
Impeller Washer	60A20	60A86	60A86

<sup>\*\*\*\*</sup>Consult the Factory for 20HP, 1800 RPM Motors

<sup>\*\*</sup>Used on 4\_\_2\_ pumps in 3-pump WWMPS

<sup>\*\*\*</sup> Used on 4\_2\_ pumps in 2-Pump WMPS

<sup>\*\*\*\*\*</sup>Consult the Factory for 20HP, 1800 RPM Motors



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 28

#### MECHANICAL, PIPING, & PARTS (CONTINUED)

PUMP PARTS  VERIFY ALL CASTED PARTS WITH FACTORY	6B3B*1 Pump	6B3B*1 Pump	6C3B*1 (Series) Pump
Shaft Diameter	17/8"	11/8"	21/8"
Impeller, CW (Clockwise)	60B273A	60B273A	60B273C
Impeller, CCW (Counter-Clockwise)	60B273B	60B273B	60B273D
Maximum Diameter	12"	12"	12"
Suction Side - Diameter Eye	5½"	51/8"	51/8"
Front Head	60C88-300	87C94-300 *	60C88-300
Pump Stand	None	None	None
Volute (Some pumps have integral front heads. Call Factory before ordering to verify.)	87D78-300	60D35-300 *	87D78-300
Volute Gasket (1/64 & 1/16 thickness available)	60A28 (1/32")	60A28 (1/32")	60A28 (1/32")
Volute/Elbow Gasket (Rectangular)	87A11	87A11	87A11
Volute/Base Gasket (Replaces 87A63)	60A108	60A108	60A108
Motor Adapter – Also sell S/N NAMEPLATE	87D77-300	60B165D-300 *	87D98-300
Impeller Bolt	60A12	60A12	60A12
Impeller Washer	60A20	60A20	60A20

<sup>\*</sup> Differences in Series Pump <u>PARTS ORDERING NOTE:</u> Remind customer that gaskets may be needed when ordering casted parts

PUMP PARTS	6C3B (Series)	6D3B	6D3B (Series)
VERIFY ALL CASTED PARTS WITH FACTORY	Pump	Pump	Pump
Shaft Diameter	21/8"	3"	3"
Impeller, CW (Clockwise)	60B273C	60B273E	60B273E
Impeller, CCW (Counter-Clockwise)	60B273D	60B273F	60B273F
Maximum Diameter	12"	12"	12"
Suction Side - Diameter Eye	51/8"	51/8"	5½"
Front Head	87C94-300 *	60C88-300	87C94-300 *
Pump Stand	None	None	None
Volute (Some pumps have integral front heads. Call Factory before ordering to verify.)	60D35-300 *	87D78-300	60D35-300 *
Volute Gasket (1/64 & 1/16 thickness available)	60A28 (1/32")	60A28 (1/32")	60A28 (1/32")
Volute/Elbow Gasket (Rectangular)	87A11	87A11	87A11
Volute/Base Gasket (Replaces 87A63)	60A108	60A108	60A108
Motor Adapter – Also sell S/N NAMEPLATE	60B165E-300 *	87D107-300	60B165M-300 *
Impeller Bolt	60A12	60A87	60A87
Impeller Washer	60A20	60A86	60A86



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 29

#### MECHANICAL, PIPING, & PARTS (CONTINUED)

PUMP PARTS VERIFY ALL CASTED PARTS WITH FACTORY	8C4D Pump	8D4D Pump
Shaft Diameter	21/8"	3"
Impeller, CW (Clockwise)	60D178	60D150
Impeller, CCW (Counter-Clockwise)	60D179	60D151
Maximum Diameter	15"	15"
Suction Side - Diameter Eye	7"	7"
Front Head	8" - 60C155-300	8" - 60C155-300
Pump Stand	None	None
Volute (Some pumps have integral front heads. Call Factory before ordering to verify.)	60D211-300	60D211-300
Volute Gasket (1/64 & 1/16 thickness available)	60A106B (1/32")	60A106B (1/32")
Volute/Elbow Gasket (Rectangular)	87A11	87A11
Volute/Base Gasket (Replaces 87A63)	60A108	60A108
Motor Adapter – Also sell S/N NAMEPLATE	60B165P-300	60B165P-300
Impeller Bolt	60A12	60A87
Impeller Washer	60A20	60A86

<sup>\*</sup> Differences in Series Pump

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



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 30

#### **MECHANICAL SEALS - SINGLE**

CEAL 9 CDADE DADEC	B-SHAFT	C-SHAFT	D-SHAFT
SEAL & SPARE PARTS	17/8"	21/8"	3"
Seal Kit, Single 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	S	ee Volute Gasket Ta	ble

<sup>\*</sup> Parts contained in H87A28, H87A97, or H87A182 Mechanical Seal Kits

<u>PARTS ORDERING NOTE:</u> 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.

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

<sup>\*\*\*\*</sup>BOLDED PARTS: Always quote all bolded parts when quoting a mechanical seal kit.

TEE - DISCHARGE	
PART DESCRIPTION	PART #
Discharge Tee – slightly angled (Only used with Old Style 15's with piping below the baseplate). See drawing 87D32 Pretest Assembly	87C9-300
4" Nominal Pipe Size	2L12A
6" Nominal Pipe Size	2L12B
8" Nominal Pipe Size	2L12C

<sup>\*\* &</sup>lt;u>PARTS TIP:</u> 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.

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



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 31

#### MECHANICAL, PIPING, & PARTS (CONTINUED)

#### DOUBLE BALANCED (FOR OVER 200' TDH") MECHANICAL SEALS

SEAL & SPARE PARTS  (HIGH HEAD SEALS – For Over 200' TDH**** or Series P.S.)	C-SHAFT 2-1/8"	D-SHAFT 3"
Seal Kit, Mechanical Seal – Double Balanced (DOES NOT INCLUDE <u>BALANCE SLEEVE</u> )	H60A156	H60A137
Complete Assembly including Bronze Seal Housing & Mechanical Seal (Parts include Upper Housing thru Lower Housing) (Order one extra Seal Housing Quad Ring)	87C425	87C427
Bronze Seal Housing, Upper	87C424	87C428
Bronze Seal Housing, Lower	60C95	60C97
Seal Housing Gasket - Flat ***	60A17	60A84
Seal Housing Gasket - Quad Ring ***	60A111	60A112
Ceramic Rotating Wear Ring (requires 2)	60A155 *	60A85 *
Carbon Stationary Wear Ring (requires 2)	60A153 *	60A136 *
Stationary Quad Ring (requires 2)	11L47E *	60A54 *
Spring	60A154 *	60A135 *
O-Ring-Balance Sleeve, Inner (D-Shaft – new style sleeve 60C112/B requires 2, old style sleeve 60C112/A requires 1)	11L207C *	11L207A*
O-Ring Balance Sleeve, Outer (Both old & new require two out O-Rings)	11L207D *	11L207B *
Balance Sleeve	60B259**	60B277**
Impeller Bolts	60A12	60A87
Impeller Washer	60A20	60A86
Volute Gaskets	See the Volute	Gasket Table

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

**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.

<sup>\*</sup> Parts contained in H60A156 or H60A137 Double Balanced Mechanical Seal Kits

<sup>\*\*</sup> PARTS ORDERING NOTE: Each time the balance sleeves are replaced, new Balance Sleeve O-Rings are recommended.

NOTE: Series 4 Pump C&D Shaft WWMPS-See Factory. High Head Seals on Second Stage Pumps may be required For Over 200'TDH. Add Pump 1 & Pump 2 TDH together to determine if more than 200'TDH. See Factory.



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 32

#### MECHANICAL, PIPING, & PARTS (CONTINUED)

GASKETS, VOLUTE	STANDARD	OTHER GASKETS
PUMP SIZE	GASKET PART #	1/64" & 1/16" THICKNESS
4B2B, TURBO 4B2C, 4B2D, 4C2B, 4C2D	<b>60A26</b> (1/32")	60A27 (1/ <sub>16</sub> ")
4B3B, 4C3B, 4D3B, 6B3B (& SERIES), 6C3B (& SERIES), 6D3B(& SERIES)	<b>60A28</b> (1/32")	60A29 (¹/ <sub>16</sub> ")
4D4B	<b>60A106B</b> (1/32")	60A106A (1/61") 60A106C (1/16")
8C4D, 8D4D	<b>60A106B</b> (1/32")	60A90 (1/ <sub>64</sub> ") 60A89 (1/ <sub>16</sub> ")

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

#### PUMP IMPELLERS & PUMP X-PELLERS® - VACUUM PRIMED

-	MOTOR	IMPELLER	IMPELLER	ADDITIONAL PARTS
PUMP MODEL	RPM	CW PART #	CCW PART #	1 SET PER IMPELLER PART#
4B2B	_	60B265A	60B265B	60A12, 60A20, 60A26
TURBO 4B2C	_	87D103	87D104	60A12, 60A20, 60A26
4B2D	_	60B269A	60B269B	60A12, 60A20, 60A26
4B2X	-	60B252A	60B252B	60A12, 60A20, 60A26
4B2X	-	60B252A	60B252B	60A12, 60A20, 60A26
4B2X	-	60B252A	60B252B	60A12, 60A20, 60A26
4B3B	-	60B272A	60B272B	60A12, 60A20, 60A28
4C2B	-	60B265C	60B265D	60A12, 60A20, 60A26
4C2D	-	60B269C	60B269D	60A12, 60A20, 60A26
4C2X	1800	60B252C	60B252D	60A12, 60A20, 60A26
4C3B	-	60B272C	60B272D	60A12, 60A20, 60A28
4D3B	-	60B272E	60B173F	60A87, 60A86, 60A28
4D4B	-	60D259	60D258	60A87, 60A86, 60A106B
6B3B (& SERIES)	_	60B273A	60B273B	60A12, 60A20, 60A28
6B3X	_	60B204	60B209	60A12, 60A20, 60A28
6C3B (& SERIES)	_	60B273C	60B273D	60A12, 60A20, 60A28
6C3X	_	60B217	60B2118	60A12, 60A20, 60A28
6D3B (& SERIES)	_	60B273E	60B273F	60A87, 60A86, 60A28
6D3X	-	60B219	60B220	60A87, 60A86, 60A28
8C4D	-	60D178	60D179	60A12, 60A20, 60A106B
8D4D	-	60D150	60D151	60A87, 60A86, 60A106B

<u>PARTS ORDERING NOTE</u>: When ordering & replacing standard impeller with X-PELLER® call factory for sizing & trim requirements.



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 33

#### **OTHER PARTS**

BLOWER / EXHAUST FAN	
PART DESCRIPTION	PART #
Blower – 265 CFM (Newer Stations)	7L195
Blower – 110 CFM (Older Stations)	7L40
Louver for Vent in Hood	11L138A
Air Discharge Seal (the seal between blower & hood)	87A86

EMERGENCY KIT		
PART DESCRIPTION		PART#
Float Switch *	Normally Open:	4L291A
Float Switch	Normally Closed:	4L291B
Control Relay		4L107F
Electrode Relay		4L408Q
Single Mechanical Seal		(see page 30)
Solenoid Valve *		1L406E, 1L545A or 1L545B
Vacuum Dome (replaces 87B133,	87B133A)	87B133B***
Ferrules, 3/8"		1L366C
Vacuum Pump *	1 Cylinder (Single Piston):	8L29 or 8L44
vacuum rump	2 Cylinder (Dual Piston):	8L32**

<sup>\*</sup> SELECT THE PART(S) NEEDED FOR THE SPECIFIC INSTALLATION

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

CONTINUOUS HINGE & BACKING BAR RETROFIT KIT		
HOOD SIZES	PART #	
49" W x 64" L	SMALL	
62" W x 64" L or 62" W x 70" L	LARGE	

GAS CYLINDER, BALL STUD & SAFETY CLIP		
PART DESCRIPTION	PART #	
13MM Ball Stud	11L241AA	
10MM Ball Stud	11L241BB	
Safety Clip	11L241CC	

<sup>\*\*</sup> SEE SECTION 6 FOR COMBINED EXHAUST CONFIGURATION



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 34

#### **OTHER PARTS (CONTINUED)**

GASKETS		
PART DESCRIPTION		PART #
4" & 6" Volute/Discharge Elbow Gasket (Rectangular)		87A11
4" Flange Gasket (check valves & suction/discharge pip	ing)	11L1A
6" Flange Gasket (check valves & suction/discharge pip	ing)	11L1C
8" Flange Gasket (check valves & suction/discharge piping)		11L1D
10" Flange Gasket (check valves & suction/discharge piping)		11L1E
12" Flange Gasket (check valves & suction/discharge piping)		11L1F
14" Flange Gasket (check valves & suction/discharge piping)		11L1G
Volute/Base Gasket (Replaces 87A63 O-Ring)		60A108
	B Shaft:	60A11
Seal Housing Gasket - Flat *	C Shaft:	60A17
	D Shaft:	60A84
	B Shaft:	60A110
Seal Housing Gasket - Quad Ring *	C Shaft:	60A111
	D Shaft:	60A146

<sup>\* &</sup>lt;u>PARTS TIP:</u> Seal Housing Gasket - Flat 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 or the quad ring gasket.

GASKETS, VOLUTE PUMP SIZE	STANDARD GASKET PART #	OTHER GASKETS 1/64" & 1/16" THICKNESS
4B2B, TURBO 4B2C, 4B2D, 4C2B, 4C2D	<b>60A26</b> (1/32")	60A27 ( <sup>1</sup> / <sub>16</sub> ")
4B3B, 4C3B, 4D3B, 6B3B (& SERIES), 6C3B (& SERIES), 6D3B(& SERIES)	<b>60A28</b> (1/32")	60A29 (¹/ <sub>16</sub> ")
4D4B	<b>60A106B</b> (1/32")	60A106A (1/64") 60A106C (1/16")
8C4D, 8D4D	<b>60A106B</b> (1/32")	60A90 (1/ <sub>64</sub> ") 60A89 (1/ <sub>16</sub> ")

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

GAUGES, AIR PRESSURE	
PART DESCRIPTION	PART #
0 – 60 PSI with 3½" Dial	1L84E
0 – 60 PSI with 4½" Dial	1L84H



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 35

#### **OTHER PARTS (CONTINUED)**

62" W x 70" L

GAUGES, COMBO		OLVOEDIN EULED
VACUUM-AIR PRE	SSURE	GLYCERIN-FILLED
PART DESCRIPTION		PART #
Handles Up To 65 TDH (Old P/N 1L275CB)	(0-30" HG: 0-30 PSI)	1L780B*
Handles Up To 135 TDF (Old P/N 1L275DB)	H (0-30" HG: 0-60 PSI)	1L780C*
Handles Up To 230 TDF (Old P/N 1L275EB)	H (0-30" HG: 0-100 PSI)	1L780D*
Gauge Guard (built into on new gauges if extra p	new gauges, Only needed protection is desired.)	1L372A
GAUGE, WATER		
PART DESCRIPTION		PART #
0 – 200 Inches with 2½	' Dial	1L119D
HOOD PART DESCRIPTION		PART #
Fiberglass Hood - MUST also sell S/N NAMEPLATE		Consult Factory
	nges, & handle) not included with the hood	· · · · · · · · · · · · · · · · · · ·
	ASE BE SURE TO OFFER HOOL AR RETROFIT KITS WHEN REF	D LIFT ASSIST AND CONTINUOUS PLACING A HOOD
HOOD (FIBERGLA	SS) REPAIR KIT	PART #
Fiberglass Hood Repair	Kit (1 pt. S&L light green gel coat,	
1 pt. Polyester resin, 3 sq. ft. fiberglass mat.)		No Longer Available
Recommend selling s/n	name plate at same time.	
HOOD LIFT ASSIS	ST RETROFIT KIT	
HOOD SIZE	HOOD TYPE	PART #
49" W x 64" L	Non-Insulated	LIFTASSIST
	Non-Insulated Insulated	LIFTASSIST LIFTASSIST
49" W x 64" L		
49" W x 64" L 49" W x 64" L	Insulated	LIFTASSIST
49" W x 64" L 49" W x 64" L 62" W x 64" L	Insulated Non-Insulated	LIFTASSIST LIFTASSIST

Insulated

**LIFTASSIST** 



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 36

#### OTHER PARTS (CONTINUED)

Blower - 110 CFM (Older Stations)

HOOD LIFT ASSIST REPLACEMENT SAFETY C	LIP & BALL ST	JD
PART DESCRIPTION		PART#
Safety Clip		11L241CC
13MM Ball Stud		11L241AA
10MM Ball Stud		11L241BE
HOOD LIFT ASSIST REPLACEMENT SHOCKS		
PART DESCRIPTION	HOOD SIZE	PART #
Locking Hood Lift Assist Replacement Gas Shock (Label Color Blue)	49" W x 64" L	11L241H
Non-Locking Hood Lift Assist Replacement Gas Shock (Label Color Blue)	49" W x 64" L	11L241K
<b>Locking</b> Hood Lift Assist Replacement Gas Shock (Label Color Orange)	62" W x 64" L	11L241N
Non-Locking Hood Lift Assist Replacement Gas Shock (Label Color Orange)	62" W x 64" L	11L241M
<b>Locking</b> Hood Lift Assist Replacement Gas Shock (Label Color Orange)	62" W x 70" L	11L241N
<b>Non-Locking</b> Hood Lift Assist Replacement Gas Shock (Label Color Orange)	62" W x 70" L	11L241M
KEYSTOCK (MOTOR SHAFT KEY)		
PART DESCRIPTION	PAR	Γ#
B Shaft	95L3	9-0
C Shaft	95L3	9-0
D Shaft	95L3	9-01
ER PARTS (CONTINUED)		
LOUVER – VENT IN HOOD		
PART DESCRIPTION	P	ART#
Louver for Vent in Hood	11	L138A
Seal for Louver (Placed between louver & fiberglass)	8	7A86
Blower – 265 CFM (Newer Stations)	7	'L195
Blower Mounting Plate	84	4A130

7L40



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 37

#### OTHER PARTS (CONTINUED)

NAME PLATE, FOR S&L SERIAL NUMBER	
PART DESCRIPTION	PART #
Name Plate for Hood	CF
Name Plate for Motor Adapter (includes addition of GPM @ 'TDH)	CF
O&M'S	
PART DESCRIPTION	PART #
O&M's – Requires Job Serial Number	O&M MANUAL
PAINT (VERSAPOX) & TOUCH-UP KITS	
PART DESCRIPTION	PART#
Aquamarine <b>VERSAPOX</b> ®, Part A, Gallon	12L181B *
Light Green <b>VERSAPOX</b> ®, Part A, Gallon	12L109B *
Dark S&L Green <b>VERSAPOX</b> ®, Part A, Gallon	12L104B *
Catalyst, <b>VERSAPOX</b> ®, Part B, Gallon	12L105B
Primer (RED), Part A, Gallon	12L138A *
Primer Catalyst, Part B, Gallon	12L138B
Touch-Up Paint Kit – Aquamarine	H87A424
Touch-Up Paint Kit – Light Green	H87A426
Touch-Up Paint Kit – Georgian Hemlock	H87A425
rder one gallon of Catalyst Part B for each gallon of paint/primer – must be	mixed before use.
RECTANGULAR GASKETS	
PART DESCRIPTION	PART #
4" & 6" Volute/Discharge Elbow Gasket (Rectangular)	87A11
SHADE AIDE™ (HMI SCREEN SUN BLOCKER)	
PART DESCRIPTION	PART#
SHADE AIDE™ Kit, Small (covers HMI Screen 9.5" W x 7" H)	H87A379
SHADE AIDE™ Kit, Small Stainless Steel (covers HMI Screen 9.5" W x 7" H)	H87A379B
SHADE AIDE™ Kit, Large (covers HMI Screen 15" W x 11" H)	H87A485
SHADE AIDE™ Kit, Large Stainless Steel (covers HMI Screen 15" W x 11" H)	H87A485B
SHADE AIDE™ Kit, Extra Large (covers HMI Screen 19.875" W x 14" H)	H87A503A
SHADE AIDE™ Kit, Extra Large Stainless Steel (covers HMI Screen 19.875" W x 14" H)	H87A503D
(covers Hivil Screen 19.875" W X 14" H)	



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 38

(Order H87A329A)

#### OTHER PARTS (CONTINUED)

SONIC START® STREAMLINE™)

SLINGER RINGS (FOR MOTORS)	
PART DESCRIPTION	PART#
B Shaft	95L39-B*
C Shaft	95L39-C*
D Shaft	95L39-D*
VIDEOS - TRAINING	
PART DESCRIPTION	PART#
How To Replace the Single Mechanical Seal – DVD Format	12L318DVD-
UUM PRIMING SYSTEM	
DELAY TIMER – SONIC START® STREAMLINE™	
DELAY TIMER – SONIC START® STREAMLINE™ PART DESCRIPTION	PART#
DELAY TIMER – SONIC START® STREAMLINE™	PART#
DELAY TIMER – SONIC START® STREAMLINE™ PART DESCRIPTION	<b>PART #</b> 4L406B
DELAY TIMER – SONIC START® STREAMLINE™ PART DESCRIPTION  SONIC START® STREAMLINE™ Delay Timer – Required for	
DELAY TIMER – SONIC START® STREAMLINE™  PART DESCRIPTION  SONIC START® STREAMLINE™ Delay Timer – Required for SONIC START® STREAMLINE™	
DELAY TIMER – SONIC START® STREAMLINE™  PART DESCRIPTION  SONIC START® STREAMLINE™ Delay Timer – Required for SONIC START® STREAMLINE™  Comes standard in the H87A391J & H87A457 upgrade kits.	
DELAY TIMER – SONIC START® STREAMLINE™  PART DESCRIPTION  SONIC START® STREAMLINE™ Delay Timer – Required for SONIC START® STREAMLINE™  Comes standard in the H87A391J & H87A457 upgrade kits.  ELECTRODE DOMES – VACUUM DOMES	4L406B
DELAY TIMER – SONIC START® STREAMLINE™  PART DESCRIPTION  SONIC START® STREAMLINE™ Delay Timer – Required for SONIC START® STREAMLINE™  Comes standard in the H87A391J & H87A457 upgrade kits.  ELECTRODE DOMES – VACUUM DOMES PART DESCRIPTION	4L406B  PART #

\*PARTS ORDERING NOTE: Part # extension varied based on manufacturer. Motor manufacturer needs to be
\*\*PARTS ORDERING NOTE: Small O-Ring (P/N 11L4J) & LARGE O-RING (11L4K) are recommended (not included with dome).



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 39

#### **VACUUM PRIMING SYSTEM (CONTINUED)**

ELECTRODE DOME ASSEMBLIES – VACUUM DOME ASSEMBLIES	
PART DESCRIPTION	PART#
Electrode Dome Assembly with new style SOLID Stainless Steel 5 1/4" long Electrode and Quick Disconnect Fitting	87B309B *
(Can be used to replace the obsolete <b>87B134B &amp; 87B309</b> assemblies)	
Electrode Dome Assembly with new style SOLID Stainless Steel <b>6</b> " Long Electrode and Quick Disconnect Fitting.	87B309C *
(Can be used to replace the obsolete 87B134A & 87B309A assemblies)	
* Ferrule Connection Fitting	
(OPTIONAL replacement for Quick Disconnect Fitting on new style electrodes that are included with these assemblies/kits)	1L248A
SONIC START® Vacuum Dome Complete Assembly	87B452A
SONIC START® STREAMLINE™ for Pump Stations Vacuum Dome Assembly (includes vacuum dome + 2-way solenoid valve & interconnecting piping to make assembly.)  SPECIAL NOTE: Solenoid has DIN connector w/cable connection.	87B728
<b>Blank Vacuum Dome Assembly</b> (only use with 4-pump series vacuum primed pump stations and only on pump not regulating wet well flow. List of parts A-I required to make assembly.)	
A. Vacuum Dome (1 required)	87B133B*
B. Bulk Head Union (1 required)	1L481C
C. Stainless Steel Nut (2 required)	6L30K
D. O-Ring (1 required)	11L4K
E. Stainless Steel Stud (2 required)	6L200DE
F. Stainless Steel Flat Washer (2 required)	6L65F
G. Dome Compression Ring (1 required)	87A226
H. O-Ring (1 required)	11L4J
I. Cap for Bulkhead Union (1 required)	1L481CA

**PARTS ORDERING TIP:** Hollow electrode parts for obsolete assemblies 87B134A & 87B134B available individually



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 40

OBSOLETE

4L264

4L264E

#### **VACUUM PRIMING SYSTEM**

ELECTRODE DOME – VACUUM DOME CONVERSION KIT	rs
PART DESCRIPTION	PART#
Electrode Dome Assembly Conversion Kit — Required when replacing the Old Style 87B15 Electrode Dome, which has two holes at the top to new Solid Stainless Steel Electrode system. Includes all parts in 87B309C. (Replaces H87B135)	H87A329A
Two Hole Electrode Dome Kit Conversion to WaveStart®	H87A391P
Electrode Dome Conversion/Reduced Maintenance Vacuum Priming Combo Kit (OLD PN: H87A330A)	OBSOLETE
Reduced Maintenance Vacuum Priming System Retrofit Kit (OLD PN: H87A310C)	OBSOLETE
* Ferrule Connection Fitting (OPTIONAL) replacement for Quick Disconnect Fitting on new style electrodes that are included with these assemblies/kits)	1L248A
WaveStart® Vacuum Dome Conversion Kit (1 pump)	H87A391P
SONIC START® STREAMLINE™ Only Upgrade Kit + 200 millisecond SONIC START® Probe	OBSOLETE
ELECTRODE RELAYS – ER1 & ER2	
PART DESCRIPTION	PART#
Electrode Relay (Old Style)	4L29
Socket Base, 8 pin for 4L29 Relay	5L49B
Electrode Relay (Old Style)	OBSOLETE
Electrode Relay (Current) (Includes a rewiring installation booklet)	4L408Q
Socket Base (8 Pin) for 4L29, 4L408, 4L408H, 4L408Q	5L49B

<u>PARTS ORDERING TIP:</u> Hollow electrode parts for obsolete assemblies 87B134A & 87B134B available individually

Reduced Maintenance Vacuum Priming System Retrofit Kit (Includes one each 87B309B & 87B309C electrode dome assemblies, 4L408H electrode relay upgrade, 1L545B

electrode) (For both Duplex and Series [parallel] Pump Stations)(Old PN: H87A310C)

**SONIC START®** Operating Module

WaveStart® Operating Module

solenoid valve, and latest vacuum priming system to retrofit stations that have the 87A229 hollow



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 41

ELECTRODE DOME – VACUUM DOME CONVERSION KITS	
PART DESCRIPTION	PART#
Electrode Dome Assembly Conversion Kit — Required when replacing the Old Style 87B15 Electrode Dome, which has two holes at the top to new Solid Stainless Steel Electrode system. Includes all parts in 87B309C. (Replaces H87B135)	H87A329A
Two Hole Electrode Dome Kit Conversion to WAVESTART®	H87A391P
Electrode Dome Conversion/Reduced Maintenance Vacuum Priming Combo Kit (OLD PN: H87A330A)	OBSOLETE
Reduced Maintenance Vacuum Priming System Retrofit Kit (OLD PN: H87A310C)	OBSOLETE
* Ferrule Connection Fitting (OPTIONAL) replacement for Quick Disconnect Fitting on new style electrodes that are included with these assemblies/kits)	1L248A
WAVESTART™ Vacuum Dome Conversion Kit (1 pump)	H87A391P
STREAMLINE™ Only Upgrade Kit + 200 millisecond SONIC START® Probe	H87A457 & 4L628N

ELECTRODE RELAYS – ER1 & ER2	
PART DESCRIPTION	PART#
Electrode Relay (Old Style)	4L29
Socket Base, 8 pin for 4L29 Relay	5L49B
Electrode Relay (Current) (Includes a rewiring installation booklet)	4L408Q*
Socket Base (8 Pin) for 4L29, 4L408, 4L408H	5L49B
Reduced Maintenance Vacuum Priming System Retrofit Kit (Includes one each 87B309B & 87B309C electrode dome assemblies, 4L408H electrode relay upgrade, 1L545B solenoid valve, and latest vacuum priming system to retrofit stations that have the 87A229 hollow electrode) (For both Duplex and Series [parallel] Pump Stations)(Old PN: H87A310C)	OBSOLETE
SONIC START® Operating Module	4L264
WaveStart® Operating Module	4L264E

<sup>\*</sup> If customer switches to 4L408Q, or **SONIC START®** or WaveStart® from the 4L29 Electrode Relay, the Rectifier/Diode, Resistor & Capacitor are no longer required in the control panel.



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 42

#### **VACUUM PRIMING SYSTEM (CONTINUED)**

#### ELECTRODES (OLD TECHNOLOGY - STATE-OF-THE-ART IS SONIC START® PROBE)

PART DESCRIPTION	PART#
Solid Aluminum Electrode (old P/N 87A72 no longer available)  Convert to Solid Electrode with Kit H87A329A or SONIC START® STREAMLINE™ Dome Retrofit  Adapter Piece PN 87A225 & Hardware or the SONIC START® STREAMLINE™ Conversion kit  H87A391J	OBSOLETE
Hollow SS Electrode, $5\%$ Long (old P/N 87A229A no longer available Order 87B309C as replacement)	OBSOLETE
Hollow SS Electrode, 5" Long <b>ONLY</b> (Available until current stock is depleted)  Convert to PN 87A285 + Bulk Head Fittings or <b>SONIC START® STREAMLINE™</b>	87A229B *
5½" Long Solid Stainless Steel Electrode <b>ONLY</b> Recommend Converting to low maintenance <b>SONIC START® STREAMLINE™</b>	87A285 <b>*</b>
5½ Long Solid Stainless Steel Electrode Dome Complete Assembly Recommend Converting to low maintenance <b>SONIC START® STREAMLINE™</b>	87B309B *
6" Long Solid Stainless Steel Electrode <b>ONLY</b> Recommend Converting to low maintenance <b>SONIC START® STREAMLINE™</b>	87A285A*
6" Long Solid Stainless Steel Electrode Dome Complete Assembly Recommend Converting to low maintenance <b>SONIC START® STREAMLINE™</b>	87B309C *

<sup>\*</sup> Must identify correct electrode length requirement

### ELECTRODES - NEWER STYLE SOLID STAINLESS STEEL ELECTRODE \* FOR DOMES WITH ONE HOLE AT THE TOP (OLD TECHNOLOGY RELPLACED BY SONIC START® PROBE)

PART DESCRIPTION	PART #
5¼" Long Solid S.S. Electrode	87A285 *
6" Long Solid S.S. Electrode (used with PN 87A225 Dome Retrofit Adapter)	87A285A *
Jam Nut	6L222A
Small O-Ring (for top of dome)	11L4J
Large O-Ring (for base of dome)	11L4K
Male Quick Disconnect Fitting	1L460D
<sup>3</sup> / <sub>8</sub> "T x <sup>1</sup> / <sub>4</sub> NPT Ferrule Connection Fitting (Optional replacement for 1L460D)	1L248A
Female Reducer Coupling	1L552A
Reduced Maintenance Vacuum Priming System Retrofit Kit (Old PN: H87A310C)	OBSELETE

<sup>\*</sup> Must identify correct electrode length requirement



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 43

#### **VACUUM PRIMING SYSTEM (CONTINUED)**

**ELECTRODES – OLD STYLE:** FOR DOMES WITH TWO HOLES AT THE TOP, OLD TECHNOLOGY REPLACED BY SONIC START® PROBE.

PART DESCRIPTION	PART#
2-Hole Dome (old P/N 87B15 no longer available. Convert to <b>SONIC START® STREAMLINE™</b> with kit H87A391J)	OBSOLETE
Solid Aluminum Electrode (old P/N 87A72 no longer available. Convert to SONIC START® STREAMLINE™ with kit H87A391J)	OBSOLETE
Gasket for Stud	87A31
Quad Ring (if surface of dome has a groove)	11L47D
Electrode Dome Gasket (if surface of dome is flat)	87A7
Stud for Electrode	6L51CF
Nut for 6L51CF (2 required)	6L60E
Bolt for Holder (2 required)	6L20CE
Flatwasher for Holder (2 required)	6L61F
Male Connector for Electrode Dome	1L248G
90° Connector for Tubing to Valves	1L190B
Straight Fitting for Tubing to Valves	1L248A
Insulator Boot	5L68B
Tubing, Green 3/8" (Other colors available – see page 51)	1L142BB



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 44

ELECTRODES - OLDER STYLE HOLLOW ELECTRODE * FOR DOMES WITH ONE HOLE AT THE TOP (OLD TECHNOLOGY RELPLACED BY SONIC START® PROBE)	
PART DESCRIPTION	PART#
51/8" Long Hollow S.S. Electrode (Old P/N: 87B229A no longer available	
- Order 87B309C as replacement) (used with PN 87A225 Dome	OBSOLETE
Retrofit Adapter)	
5" Long Hollow S.S. Electrode (ONLY Available until current stock is depleted)	87A229B *
Bulkhead Union	1L481C
Terminal Lug	5L52G
Small O-Ring ( <b>2</b> required)	11L4J
Large O-Ring	11L4K
Retainer Ring (Compression Ring)	87A226
Retrofit Adapter Ring	87A225
Stud - Stainless Steel (2 required)	6L200DH
Nut - Stainless Steel ( <i>4 required</i> )	6L30K
Washer – Stainless Steel (2 required)	6L65F
90° Elbow, 3/8" x 1/4"	1L190B
Quad Ring	11L47D
Insulator Boot	5L68B
Tubing, Green 3/8" (Other colors available – see page 51)	1L142BB
Ferrule, 3/8"	1L366C
Ferrule, Nut & Sleeve	1L786A
Electrode Dome Assembly Conversion Kit (Replaces H87B135 & H87A329)	
(converts 2 hole dome to 1 hole dome) Required when replacing the Old Style 87B15 Electrode Dome that has two holes at the top. (The kit Includes all parts in the 87B309C assembly and other parts needed for conversion.)	H87A329A
* Must identify sorrest electrode length requirement	

<sup>\*</sup> Must identify correct electrode length requirement

FLOAT CHECK VALVES – CURRENT STYLE	
PART DESCRIPTION	PART#
Float Check Valve, %" NPT (Complete Assembly) (Replaces 1L443, 1L443G, and 87A76)	1L443H
Adapter Fitting, 3/8" x 1/4"	1L43D
Body (See drawing - not normally replaced)	(Sec 12 pg 23)
Ball Seat (for 1L443H)	1L443HA
Valve Ball 1½" Diameter	1L443B
O-Ring (for 1L443H)	1L443HB
Bowl Only (for 1L443H)	1L443HC
Drain Valve	1L333
Float Check Valve <b>SONIC START® STREAMLINE™</b> Piping (connects between float check valve & vacuum tubing.) Includes gauge port, shut off valve & quick disconnect tubing connections	87B739



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 45

FLOAT CHECK VALVES – OLDER STYLE	
PART DESCRIPTION	PART#
Older Style Ball Seat (for 1L443G)	1L443A
Older Style O-Ring (around outside lip of 1L443)	1L443C
Older Style O-Ring (around inside lip of 1L443G)	1L443E
Older Style Bowl Assembly (for 1L443G)	1L443F
Drain valve (for 1L443 or 1L443G)	1L333
Older Style O-Ring (for 87A76)	1L410C
Older Style Bowl Assembly (for 87A76)	1L410D
Older Style Bowl Insert (for 87A76)	1L410H
QUICK DISCONNECT FITTINGS	
PART DESCRIPTION	PART#
Quick Disconnect (new style) elbow – 3/8" x 1/4" NPT	1L546C
Quick Disconnect(new style) straight – 3/8" x ¼" NPT	1L460D
Quick Disconnect(new style) straight & used on SONIC START® STREAMLINE™ (P/N:87B728) Dome Assembly	1L460E
REDUCED MAINTENANCE VACUUM PRIMING SYSTI	
PART DESCRIPTION	EM KITS PART#
PART DESCRIPTION  Reduced Maintenance Vacuum Priming System Retrofit	PART #
PART DESCRIPTION  Reduced Maintenance Vacuum Priming System Retrofit Kit (Includes one each 87B309B & 87B309C electrode	
PART DESCRIPTION  Reduced Maintenance Vacuum Priming System Retrofit Kit (Includes one each 87B309B & 87B309C electrode dome assemblies, 4L408H electrode relay upgrade, 1L545A) (Obsolete P/N:H87A310C) Replacement part is WAVESTART®	PART #
PART DESCRIPTION  Reduced Maintenance Vacuum Priming System Retrofit Kit (Includes one each 87B309B & 87B309C electrode dome assemblies, 4L408H electrode relay upgrade, 1L545A) (Obsolete P/N:H87A310C) Replacement part is WAVESTART® P/N:H87A391P	PART #  Replaced with WAVESTART®
PART DESCRIPTION  Reduced Maintenance Vacuum Priming System Retrofit Kit (Includes one each 87B309B & 87B309C electrode dome assemblies, 4L408H electrode relay upgrade, 1L545A) (Obsolete P/N:H87A310C) Replacement part is WAVESTART® P/N:H87A391P  Electrode Dome Conversion/Reduced Maintenance Vacuum Priming Combo Kit (Includes H87A329A, 4L408H upgrade, and	PART #  Replaced with WAVESTART®  H87A391F
PART DESCRIPTION  Reduced Maintenance Vacuum Priming System Retrofit Kit (Includes one each 87B309B & 87B309C electrode dome assemblies, 4L408H electrode relay upgrade, 1L545A) (Obsolete P/N:H87A310C) Replacement part is WAVESTART® P/N:H87A391P  Electrode Dome Conversion/Reduced Maintenance Vacuum Priming Combo Kit (Includes H87A329A, 4L408H upgrade, and 1L545A solenoid upgrade)	PART #  Replaced with WAVESTART® H87A391F  Replaced with WAVESTART®
PART DESCRIPTION  Reduced Maintenance Vacuum Priming System Retrofit Kit (Includes one each 87B309B & 87B309C electrode dome assemblies, 4L408H electrode relay upgrade, 1L545A) (Obsolete P/N:H87A310C) Replacement part is WAVESTART® P/N:H87A391P  Electrode Dome Conversion/Reduced Maintenance Vacuum Priming Combo Kit (Includes H87A329A, 4L408H upgrade, and	PART #  Replaced with WAVESTART® H87A391F
PART DESCRIPTION  Reduced Maintenance Vacuum Priming System Retrofit Kit (Includes one each 87B309B & 87B309C electrode dome assemblies, 4L408H electrode relay upgrade, 1L545A) (Obsolete P/N:H87A310C) Replacement part is WAVESTART® P/N:H87A391P  Electrode Dome Conversion/Reduced Maintenance Vacuum Priming Combo Kit (Includes H87A329A, 4L408H upgrade, and 1L545A solenoid upgrade) (Obsolete P/N:H87A330A) Replacement part is WAVESTART®	PART #  Replaced with WAVESTART® H87A391F  Replaced with WAVESTART®
PART DESCRIPTION  Reduced Maintenance Vacuum Priming System Retrofit Kit (Includes one each 87B309B & 87B309C electrode dome assemblies, 4L408H electrode relay upgrade, 1L545A) (Obsolete P/N:H87A310C) Replacement part is WAVESTART® P/N:H87A391P  Electrode Dome Conversion/Reduced Maintenance Vacuum Priming Combo Kit (Includes H87A329A, 4L408H upgrade, and 1L545A solenoid upgrade) (Obsolete P/N:H87A330A) Replacement part is WAVESTART® P/N: H87A391P	PART #  Replaced with WAVESTART® H87A391F  Replaced with WAVESTART® H87A391F
PART DESCRIPTION  Reduced Maintenance Vacuum Priming System Retrofit Kit (Includes one each 87B309B & 87B309C electrode dome assemblies, 4L408H electrode relay upgrade, 1L545A) (Obsolete P/N:H87A310C) Replacement part is WAVESTART® P/N:H87A391P  Electrode Dome Conversion/Reduced Maintenance Vacuum Priming Combo Kit (Includes H87A329A, 4L408H upgrade, and 1L545A solenoid upgrade) (Obsolete P/N:H87A330A) Replacement part is WAVESTART® P/N: H87A391P  Vapor Filter 12-Pack Replacement Part Kit	PART #  Replaced with WAVESTART® H87A391F  Replaced with WAVESTART® H87A391F
PART DESCRIPTION  Reduced Maintenance Vacuum Priming System Retrofit Kit (Includes one each 87B309B & 87B309C electrode dome assemblies, 4L408H electrode relay upgrade, 1L545A) (Obsolete P/N:H87A310C) Replacement part is WAVESTART® P/N:H87A391P  Electrode Dome Conversion/Reduced Maintenance Vacuum Priming Combo Kit (Includes H87A329A, 4L408H upgrade, and 1L545A solenoid upgrade) (Obsolete P/N:H87A330A) Replacement part is WAVESTART® P/N: H87A391P  Vapor Filter 12-Pack Replacement Part Kit	PART #  Replaced with WAVESTART® H87A391F  Replaced with WAVESTART® H87A391F  H87A321A
Reduced Maintenance Vacuum Priming System Retrofit Kit (Includes one each 87B309B & 87B309C electrode dome assemblies, 4L408H electrode relay upgrade, 1L545A) (Obsolete P/N:H87A310C) Replacement part is WAVESTART® P/N:H87A391P  Electrode Dome Conversion/Reduced Maintenance Vacuum Priming Combo Kit (Includes H87A329A, 4L408H upgrade, and 1L545A solenoid upgrade) (Obsolete P/N:H87A330A) Replacement part is WAVESTART® P/N: H87A391P  Vapor Filter 12-Pack Replacement Part Kit  WAVESTART® KITS  PART DESCRIPTION  WaveStart® Upgrade Kit for One Pump from SONIC START®	PART #  Replaced with WAVESTART® H87A391F  Replaced with WAVESTART® H87A391F  H87A321A  PART #
Reduced Maintenance Vacuum Priming System Retrofit Kit (Includes one each 87B309B & 87B309C electrode dome assemblies, 4L408H electrode relay upgrade, 1L545A) (Obsolete P/N:H87A310C) Replacement part is WAVESTART® P/N:H87A391P  Electrode Dome Conversion/Reduced Maintenance Vacuum Priming Combo Kit (Includes H87A329A, 4L408H upgrade, and 1L545A solenoid upgrade) (Obsolete P/N:H87A330A) Replacement part is WAVESTART® P/N: H87A391P  Vapor Filter 12-Pack Replacement Part Kit  WAVESTART® KITS  PART DESCRIPTION  WaveStart® Upgrade Kit for One Pump from SONIC START®  WaveStart® Upgrade Kit for Two Pumps from SONIC START®	PART #  Replaced with WAVESTART® H87A391F  Replaced with WAVESTART® H87A391F  H87A321A  PART # H87A391M
PART DESCRIPTION  Reduced Maintenance Vacuum Priming System Retrofit Kit (Includes one each 87B309B & 87B309C electrode dome assemblies, 4L408H electrode relay upgrade, 1L545A) (Obsolete P/N:H87A310C) Replacement part is WAVESTART® P/N:H87A391P  Electrode Dome Conversion/Reduced Maintenance Vacuum Priming Combo Kit (Includes H87A329A, 4L408H upgrade, and 1L545A solenoid upgrade) (Obsolete P/N:H87A330A) Replacement part is WAVESTART® P/N: H87A391P  Vapor Filter 12-Pack Replacement Part Kit  WAVESTART® KITS  PART DESCRIPTION	Replaced with WAVESTART® H87A391F Replaced with WAVESTART® H87A391F H87A321A PART # H87A391M H87A391N



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 46

SOLENOID VALVES (IN PORT GOES TO DOME, OUT PORT GOES TO VACUUM PUMP)		
PART DESCRIPTION	PART#	
SONIC START® STREAMLINE™ and WaveStart® Vacuum Dome for Pump Stations (NEWEST Solenoid Dome Arrangement)	87B728	
2-Way Solenoid Valve (5/16" orifice) (Newest Solenoid – Upgrade from 1L406A & 1L406E Style)	1L545A remote mounted using standard DIN connection and used on SONIC STAR STREAMLINE™ Vacuum Dome	
DIN Connector for 1L545A with 8' cord (OLD P/N: 1L545A-1) (Required for initial installation of 1L545A)	87A481-STK	
Solenoid Clip (top piece removed when solenoid opened, clip holds unit in place)	1L545A-3	
2-Way Solenoid Valve (5/16" orifice) (Newest Solenoid – Upgrade from 1L406A & 1L406E Style)	1L545B conduit connection mounted throu panel & backpan	
Solenoid Clip (top piece removed when solenoid opened, clip holds unit in place)	1L545A-3	
Reduced Maintenance Vacuum Priming System Retrofit Kit USE H87A391J	OBSOLETE	
2-Way Solenoid Valve Upgrade Kit (5/16" orifice) (Old PN: H87A343A) (Newest – Upgrade from 1L406A & 1L406E Style) USE H87A391J	OBSOLETE	
3-Way Solenoid Valve (3/32" orifice) (Replaced Old Style 1L299A, 1L349A, 1L406A & 1L406E) Current S&L standard solenoid valve is the PN 1L545A remote mounted needs DIN connector PN 1L545A-1 or PN1L545B that mounts through control panel and backpan. Conduit Connection, Ref: 87B16.)	1L406K	
Conduit Nut for 3-Way Solenoid Valve (required when ordering 1L406E first time)	5L13A	
Valve Sleeve Wrench for 1L406A	1L406W	
Valve Sleeve Wrench for 1L406E	1L406EW	
WAVESTART® KITS PART DESCRIPTION	PART#	
WaveStart® Upgrade Kit for One Pump From SONIC START® STREAMLINE™	H87A391M	
SONIC START® STREAMLINE™  Upgrade Kit for Two Pumps From SONIC START®	H87A391N	
WaveStart® Drill & Tap Kit	H87A390A	
WaveStart® Conversion Kit from the 2 Holed Electrode Dome Kit – Every part needed to make the full conversion	H87A391P	



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 47

These parts come standard in the SONIC START® STREAMLINE™ Ki	T <b>S</b> its
PART DESCRIPTION	PART #
SONIC START® STREAMLINE™ Replacement Sensor Probe	
120Vac & 24Vac	4L628N
(Old P/N: 4L628A, 4L628B, 4L628F, 4L628G)	
Explosion Proof <b>SONIC START®</b> Probe (Old P/N: 4L628CC)	4L628H
SONIC START® Operating Module	4L264
SONIC START® DIN Connector Cable (Old P/N: 1L545A-1, 1L545A-2)	87A481-STI
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
WAVESTART® UPGRADE KITS	
PART DESCRIPTION	PART#
WAVESTART®	
Complete upgrade kit (1-pump kit) Required to upgrade from SONIC START® STREAMLINE™ to WaveStart®	H87A391M
WAVESTART®	
Complete upgrade kit (2-pump kit) Required to upgrade from SONIC START® STREAMLINE™ to WaveStart®	H87A391N
WAVESTART®	
Complete upgrade kit (1-pump kit) Required to upgrade from <b>Electrodes to WaveStart</b> ®	H87A391P
WaveStart® Drill & Tap Kit (Convenience Kit, has all drill bits & tap for WaveStart® probe drilling & tapping of motor adapter.	H87A390A
	IIM DOME/
WAVESTART® SONIC START® STREAMLINE™ VACU	_
SOLENOID VALVE ASSEMBLY - NEWEST & CURREI	NT STYLE
	_



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 48

#### **VACUUM PRIMING SYSTEM (CONTINUED)**

SONIC START® VACUUM DOME ASSEMBLY – OLD STYLE.		
PART DESCRIPTION	PART #	
SONIC START® Vacuum Dome Complete Assembly	87B452A	
PARTS NOTE: Do Not Use With SONIC START® STREAMLINE™		
SONIC START® VACUUM DOME INDIVIDUAL	PARTS FOR	
P/N 87B452A		
PART DESCRIPTION	PART #	
Ferrule Connection Fitting (Optional)	1L248A	
Male Quick Disconnect Connection Fitting, Brass	1L460D	
Reducer Coupling, Brass	1L552A	
Jam Nut, Brass	6L222A	
Vacuum Dome Housing	87B133B <sup>*</sup>	
Small O-Ring	11L4J	
SONIC START® Bulk Head Fitting, Brass	87A384	
Large O-Ring	11L4K	
VACUUM DOME		
PART DESCRIPTION	PART #	
Vacuum Dome	87B133B	
Small O-Ring (for top of dome)	11L4J	
Large O-Ring (for bottom of dome)	11L4K	

\*PARTS ORDERING NOTE: Small O-Ring (P/N 11L4J) & Large O-Ring (11L47D) are recommended (not included with dome).

VACUUM PUMP - HEAVY DUTY - SINGLE PISTON & SPARE PARTS		
PART DESCRIPTION	PART #	
Heavy Duty 1/6 HP (For Pumps with 4" Piping) (Complete pump)	8L29	
Repair Kit (K264 or K265)	8L29AB	
Inlet Filter	8L29A1	
Head Gasket	8L29A4	
Valve Outlet	8L29A5	



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 49

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 PRIMING SYSTEM (CONTINUED)	
VACUUM PUMP - STANDARD - SINGLE PISTON & SE	PARE PARTS
PART DESCRIPTION	PART#
-	
Standard 1/8 HP (for pumps with 4" piping) (Complete pump)	8L44
Repair Kit	8L44-48
VACUUM PUMP - HEAVY DUTY - DUAL PISTON & SP	ADE DADTO
PART DESCRIPTION	PART#
	PARI#
Heavy Duty $\frac{1}{2}$ HP (For Pumps with 6" Piping) (Complete pump)	8L32**
(replaces 8L40A*)	0202
Repair Kit (K262 or K263)	8L32-1
Head Gasket	8L32-2
Outlet Valve	OL3Z-Z
	8L32-3
Inlet Valve	
Inlet Valve Cylinder Gasket	8L32-3
	8L32-3 8L32-4
Cylinder Gasket	8L32-3 8L32-4 8L32-5
Cylinder Gasket Felt	8L32-3 8L32-4 8L32-5 8L32-6
Cylinder Gasket Felt Piston Ring	8L32-3 8L32-4 8L32-5 8L32-6 8L32-7
Cylinder Gasket Felt Piston Ring Piston Seal	8L32-3 8L32-4 8L32-5 8L32-6 8L32-7 8L32-8
Cylinder Gasket Felt Piston Ring Piston Seal Rider Ring	8L32-3 8L32-4 8L32-5 8L32-6 8L32-7 8L32-8 8L32-9
Cylinder Gasket Felt Piston Ring Piston Seal Rider Ring Valve Plate	8L32-3 8L32-4 8L32-5 8L32-6 8L32-7 8L32-8 8L32-9 8L32-10
Cylinder Gasket Felt Piston Ring Piston Seal Rider Ring Valve Plate Motor ½ HP 1725 RPM	8L32-3 8L32-4 8L32-5 8L32-6 8L32-7 8L32-8 8L32-9 8L32-10 Not Available
Cylinder Gasket Felt Piston Ring Piston Seal Rider Ring Valve Plate Motor ½ HP 1725 RPM Shroud	8L32-3 8L32-4 8L32-5 8L32-6 8L32-7 8L32-8 8L32-9 8L32-10 Not Available 8L32-12

<sup>\*</sup> NOTE: Parts available for 8L40A – see drawing in Section 7

<sup>\*\*</sup> SEE SECTION 6 FOR COMBINED EXHAUST CONFIGURATION

<sup>\*\*\*</sup> PURCHASE OF NEW 8L32 REQUIRED



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 50

PARTS ORDERING NOTE: \* Most commonly replaced in overhaul of vacuum pump – typical repair kit parts.



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 51

OLD 8L40A VACUUM PUMP DUAL P	ISTON - SPARE F	PARTS ONLY*
Diaphragm		OBSOLETE
Head (old P/N 8L40-9 no longer available)		OBSOLETE
Valve Keeper		8L40-14
Diaphragm Hold Down Plate		OBSOLETE
Head Screw		8L40-18
Exhaust Flapper Screw		8L40-19
Intake Flapper Screw		8L40-23
Valve Plate Screw		8L40-24
Filter Assembly  TE: If complete pump is needed, replace with 8L3	2	8L40-34
VACUUM RELEASE VALVE		
PART DESCRIPTION		PART#
Vacuum Release Valve – Required for <b>SONIC S</b>	TART®	
STREAMLINE™. (Comes standard as part of He H87A457 upgrade kits)	87A391J &	1L764B
VACUUM TUBING		
PART DESCRIPTION		PART#
Vacuum Tubing - 3/8"	Natural:	1L142BA
*1/4" & 1/2" also available	Green:	1L142BB
	Red:	1L142BC
VACUUM TUBING FITTINGS (for electr	ode domes, solenoid va	lves, & float check val
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 (old style - for 2-hole dome) straight - 3/8"	x 1/8" NPT	1L248G
Quick Disconnect (new style) elbow - 3/8" x 1/4" N	PT	1L546C
Quick Disconnect (new style) straight - 3/8" x 1/4" I	NPT	1L460D
Quick Disconnect (new style) straight used on		
SONIC START® STREAMLINE™		1L460E
(P/N: 87B728 Dome Assembly)		
		REAMI INETM
VAPOR FILTER – NOT USED WITH S	DINIC START'SI	ILAWEINE
VAPOR FILTER – NOT USED WITH S PART DESCRIPTION	OUNIC START'ST	PART#
	SONIC START'ST	



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 52

#### **VALVES**

PART #
2L104A-300 *
2L104AA1
11L1A
2L148M-300 *
2L104AA1
11L1C

WAFER CHECK VALVES, SPRING LOADED	
PART DESCRIPTION	PART #
4" Left Hand Wafer Check Valve - requires (2) 11L1A, (4) 6L20HS & (4) 6L60L to install (replaces 2L139A, 2L161A, 2L153A, 2L153E)	2L153N*
4" Right Hand Wafer Check Valve - requires (2) 11L1A, (4) 6L20HS & (4) 6L60L to install (replaces 2L139B & 2L161B, 2L153B, 2L153F)	2L153P*
4" Flange Gasket (requires 2 per valve)	11L1A
Bolt for 4" Valve Installation (4 needed per valve)	6L20HS
Nut for 4" Valve Installation (4 needed per valve)	6L60L
6" Left Hand Wafer Check Valve - requires (2) 11L1C, (4) 6L20JV & (4) 6L60M to install (replaces 2L139C & 2L161C, 2L153C, 2L153G)	2L153Q*
6" Right Hand Wafer Check Valve - requires (2) 11L1C, (4) 6L20JV & (4) 6L60M to install (replaces 2L139D & 2L161D, 2L153D, 2L153H)	2L153R*
6" Flange Gasket (requires 2 per valve)	11L1C
Bolt for 6" Valve Installation (4 needed per valve)	6L20JV
Nut for 6" Valve Installation (4 needed per valve)	6L60M

<sup>\*</sup> **NOTE:** Arms and Shafts are now drilled for double roll pins.



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 53

#### VALVES (CONTINUED)

#### 4" Wafer Check Valve Spare Parts

PART DESCRIPTION	2L153A,B PART #	2L153E,F PART #	2L153N,P (-300) PART #
Seat Ring	55A30	55A38C ***	11L207F
Brass Arm *	Obsolete **	Obsolete **	55A32
Brass Clapper	55B39	55B39	55B39
Shoulder Bolt - Stainless Steel	6L184A	6L184A	6L184A
Roll Pin - Stainless Steel	2L153A6	2L153A6	2L153A6
Shaft - Stainless Steel *	55B44	55B44	55B32
Bronze Bushing (2 required)	55A34	55A34	55A34
O-Ring (2 required)	2L153A9	2L153A9	2L153A9
Steel Bar Arm/Handle	Obsolete **	55A36	55A36
Pin - Stainless Steel	2L153A11	2L153D11	2L153D11
Eye Bolt (from body to spring)	6L55N	6L55N	6L55N
Spring - Stainless Steel	11L104N	11L104N	11L104N
Pipe Plug	1L69B	1L69B	1L69C
Eye Bolt (from handle to spring)	6L55M	6L55M	6L55M
4" Flange Gasket (2 required per valve)	11L1A or 87A255	11L1A or 87A255	11L1A or 87A255

<sup>\*</sup> NOTE: Arms and Shafts are now drilled for double roll pins. \*\* Not Available – must order new check valve

<sup>\*\*\*</sup> Cut to size, then use Permatex Black Max 380 or Loctite Blue to connect ends & to glue O-Ring to Seat



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 54

### VALVES (CONTINUED)

#### 6" Wafer Check Valve Spare Parts

PART DESCRIPTION	2L153C,D PART #	2L153G,H,L,M PART #	2L153Q,R (-300) PART #
Seat Ring	55A31	55A38D ***	11L207G
Brass Arm *	55A33	55A33	55A39
Brass Clapper	55B29/55B40	55B2955B40	55B40
Shoulder Bolt – Stainless Steel	6L184B	6L184B	6L184B
Roll Pin - Stainless Steel	2L153C6	2L153C-12	2L153C-12
Shaft - Stainless Steel *	Obsolete **	Obsolete **	55B37
Bronze Bushing (2 required)	55A35	55A35	55A35
O-Ring (2 required)	2L153C9	2L153C9	2L153C9
Steel Bar Arm/Handle	55B31	55A37	55A37
Pin - Stainless Steel	2L153C11	2L153A11	2L153A11
Eye Bolt (from body to spring)	6L55N	6L55N	6L55N
Spring - Stainless Steel	11L104N	11L104M	11L104M
Pipe Plug	1L69B	1L69B	1L69D
Eye Bolt (from handle to spring)	6L55M	6L55M	6L55M
6" Flange Gasket (2 required per valve)	11L1C or 87A224	11L1C or 87A224	11L1C or 87A224

<sup>\*</sup> **NOTE:** Arms and Shafts are now drilled for double roll pins. \*\* **Not Available** – must order new check valve

<sup>\*\*\*</sup> Cut to size, then use Permatex Black Max 380 or Loctite Blue to connect ends



14040 Santa Fe Trail Lenexa, KS 66215-1234, USA After Market
Parts Price Book
Section 3
WWMPS Parts
3/1/21 Page 55

#### **SUGGESTED SPARE PARTS**

T OF SUGGESTED SPARE PARTS	
PART DESCRIPTION	PART #
Mechanical Seal (Select the correct seal for your pump)	
( ) B-Shaft Single Mechanical Seal – 1-7/8"	H87A28
( ) C-Shaft Single Mechanical Seal – 2-1/8"	H87A97
( ) D-Shaft Single Mechanical Seal – 3"	H87A534
<b>Volute Gasket</b> (Select the correct volute gasket for your pump) A new volute gasthe rotating assembly (motor, impeller, mechanical seals, and /or volute) is disassembled.	sket is required each tim
( ) 4B2B, TURBO 4B2C, 4B2C, 4B2D, 4C2B, 4C2D	60A26 (1/32")
( ) 4B3B, 4C3B, 4D3B, 6B3B (& SERIES), 6C3B (& SERIES), 6D3B (& SERIES)	60A28 ( <sup>1</sup> / <sub>32</sub> ")
( ) 4D4B	60A106B (1/32")
( ) 8C4D, 8D4D	60A106B (1/32")
<b>Seal Housing Gasket</b> (Select the correct gaskets for your pump) A new seal he each time the mechanical seal is replaced.	ousing gasket is required
( ) Flat – B-Shaft – 1-7/8" – Older Style	60A11
()Flat – C-Shaft – 2-1/8" – Older Style	60A17
()Flat – D-Shaft – 3" – Older Style	60A84
( ) Quad Ring – B-Shaft – 1-7/8" – Seal Housing with Groove	60A110
( ) Quad Ring – C-Shaft – 2-1/8" – Seal Housing with Groove	60A111
() Quad Ring – D-Shaft – 3" – Seal Housing with Groove	60A146
<b>Nylock Impeller Bolt</b> (Select the correct bolt for your pump) A new Nylock Imperfrom a safety standpoint each time it is removed.	ller Bolt is recommended
( ) B-Shaft & C-Shaft Nylock Impeller Bolt – 1-7/8" & 2-1/8"	60A12
( ) D-Shaft Nylock Impeller Bolt – 3"	60A87
Impeller Washer (Select the correct washer for your pump)	
( ) B-Shaft & C-Shaft Impeller Washer – 1-7/8" & 2-1/8"	60A20
( ) D-Shaft Impeller Washer – 3"	60A86
Prime Sensing Probe (Select the style installed on your pump station)	
( ) 5-1/4" Long Solid S.S. Electrode Dome Assembly	87B309B
( ) 6" Long Solid S.S. Electrode Dome Assembly	87B309C
( ) SONIC START® Prime Sensing Probe	4L628N
( ) <b>SONIC START® STREAMLINE™</b> Vacuum Dome – Solenoid Valve Assembly (If <b>SONIC START® STREAMLINE™</b> is installed on your station.)	87B728
Vacuum Dome (Clear Dome Only) Small O-Ring (P/N 11L4J) & Large O-Ring (11L47K) are recommended (not included with dome).	87B133B
Vacuum Dome Top O-Ring	11L4J