

ORIGINAL



RETROFIT

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

PARTS REFERENCE GUIDE FOR Underground Pump Stations



Your Helpful Parts Resource

For S&L Product Codes: 07,08, 09, 10, 11, 12
(First Two Numbers of Station Serial Number)

Smith & Loveless, Inc.
www.smithandloveless.com

ENGINEERING DATA



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Underground Pump Stations (Flooded Suction)

S&L Product codes: 07, 08, 09, 10, 11, 12, 13, 17
(First Two Numbers of Station Serial Number)

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PART

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MECHANICAL, PIPING, & PARTS

PUMP PARTS

*Includes: impeller, maximum diameter, front head, pump stand, volute, gaskets,
motor adapter, impeller bolt, impeller washer.*

4B2*1, 4B2A*1, 4B3, 4B4A, 4C2, 4C2A, 4C3, 4C4A, 4C5, 4D3, 4D4A, 4D5	20-23
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DOUBLE BALANCED MECHANICAL SEALS-HIGH HEAD . . .

C-SHAFT (2 $\frac{1}{8}$ ") (Seals & Spare Parts)	30
D-SHAFT (3") (Seals & Spare Parts)	30

VOLUTE GASKETS

X-PELLER® IMPELLER

IMPELLERS

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ELECTRICAL COMPONENTS

ALTERNATORS

PART DESCRIPTION	PART #
Alternator for Pump on 2-Pump older stations - plug-in with 12 pin rectangular base (Replaces 4L187)	4L187A
Socket Base, 12 pin, for Alternator 4L187A	5L161
Alternator for Pump on 2-Pump newer stations - plug-in with 11 pin round base	4L187B
Socket Base, 11 pin, for Alternator 4L187B	5L49C
Alternator for Pump on 3 Pump stations, Wire-in Timer	4L357
Alternator for Bubbler, 2 switches, Wire-in 10 Min. Timer (5 on/off) (Replaces 4L168A)	4L343A
Alternator for Bubbler, 1 switch, Wire-in 10 Min. Timer (5 on/off)	4L365B

CONTACTORS

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

GROUND FAULT CIRCUIT INTERRUPTER (GFCI) RECEPTACLES

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, 220 Volt 3000 Watt	4L186
Heater, Strip 120 Volt 150 Watt	4L362C
Heater, Strip/Panel Mount 120 Volt 500 Watt (Replaces 4L276) (OBSOLETE P/N 4L364 replaced with P/N 4L364A)	OBSOLETE
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	4L84-1
Thermostat Switch for 4L84 Heater	4L84-2

HUMIDISTAT

PART DESCRIPTION	PART #
Humidistat, 0 – 70%, SPDT, 120 V	4L215
Thermostat	4L216

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PART DESCRIPTION	PART #
Light, Red Indicator, Transformer Type, for Panel	4L90AC
Light, Red Indicator, for Panel (Order Lamp Separately)	4L90A
Lamp, 6 Watt, for 4L90A Indicator Light	4L91
Light, Fluorescent Fixture (Order Lamp Separately)	4L136
Lamp, Fluorescent 120 VAC 40 W for 4L136 Light Fixture	4L134A
Relay, for Auxiliary Lights	4L108A
Lid Switch – Lights & Blower, SPST (Replaces 4L292A & 4L45)	4L196

LIGHTNING PROTECTION

PART DESCRIPTION	PART #
Surge Capacitor	4L368
Lightning Arrestor	4L369

PUMP FAILURE ALARM (Check Valve Limit Switch)

PART DESCRIPTION	PART #
Pump Failure Alarm Retrofit Kit for Relay Logic (two pump – LH & RH)	H87A376
Pump Failure Alarm Retrofit Kit for Relay Logic (one pump – RH only)	H87A383A
Pump Failure Alarm Retrofit Kit for Relay Logic (one pump – LH only)	H87A383B
*Pump Failure Alarm – Switch Only – (one pump - RH only)	87B397A
*Pump Failure Alarm – Switch Only – (one pump – LH only)	87B397B
Pump Failure Alarm Tester	87B399
Time Delay Relay (1 per pump required if no limit switch already installed)	4L304A
8 Pin Socket (1 per pump required if no limit switch already installed)	5L49B
Relay (1 per pump required if no limit switch already installed)	4L264S

*Note: 87B397A & 87B397B are Switch Only & 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.

RELAYS

PART DESCRIPTION	PART #
Relay, for Auxiliary Lights	4L108A
Relay, Time Delay (replaces 4L103A)	4L304A
Socket for 4L304A	5L49B
Relay, 8 Pin, DPDT, 120 VAC, 50/60 HZ	4L264S
Socket Base, 8 pin for 4L264 Relay	5L49B

* Customers sometimes refer to "Alternators" as Relays.

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RUNNING TIME METER

PART DESCRIPTION	PART #
Running Time Meter	4L198A

SWITCHES

PART DESCRIPTION	PART #
H-O-A Switch, 3 Position	4L13F
Contact Block for 4L13F H-O-A	4L14B
Lid Switch – Lights & Blower, SPST (Replaces 4L292A & 4L45)	4L196
Toggle Switch (On/Off), SPST (Not UL Listed) Off-On Test Selector Switch (For Underground Pump Stations)	4L23
Toggle Switch (On/Off), Off-On Test Selector Switch – Ejector's Only (Product Code 20, 21, 23)	4L13C
Pressure (Replaces 4L200's)	4L407B
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Elevator Push-Button Reset (Black)	4L70C
Contact Block for 4L70C Elevator Push-Button Reset	4L181
Elevator Red Emergency Push-Button Stop	4L161
Contact Block for 4L161 Elevator Emergency Push-button Stop	4L14A
Limit Switch SPDT; Elevator Safety Travel Limit (Replaces 4L160A)	5L241
Actuator (Roller) for Limit Switch 5L241	5L241A
Actuator (Wire) for Limit Switch 5L241	5L241B

THERMOSTAT

PART DESCRIPTION	PART #
Thermostat 40° - 90° SPDT	4L216
Humidistat, 0-70%, SPDT, 120 V	4L215

TIMER, BLOWER

PART DESCRIPTION	PART #
Ventilating Blower, 15 Min. (Replaces 4L41A [10 Min.] & 4L219A)	4L342

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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

STARTERS – I.E.C. STARTERS – 4L420						
MOTOR HORSEPOWER	208 VOLTS		230 VOLTS		460 VOLTS	
	PART #	OPTION #	PART #	OPTION #	PART #	OPTION #
¾ & 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 NEMA RATED		4L420H	06	4L420E	04
20					4L420G	05
25						
30						

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.

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

Requirements for 208 volts: 25 hp or higher select 480 volt options as noted.

Requirements for 230 volts: 30 hp or higher select 480 volt options as noted.

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ELECTRICAL COMPONENTS (CONTINUED)

NEMA RATED STARTERS – 4L421

Motor Horsepower	208 Volts	230 Volts	460 Volts
	Part Numbers	Parts Numbers	Parts Numbers
¾ & 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.

STARTER RESET PUSH-BUTTONS

PART DESCRIPTION	PART #
Cutler-Hammer	5L106
Westinghouse	5L250

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ELECTRICAL COMPONENTS (CONTINUED)

OVERLOAD COILS FOR I.E.C. & NEMA STARTERS

Motor Horsepower	208 Volts	230 Volts	460 Volts
	Part Number	Part Number	Part Number
¾	4L413H	4L413G	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), they will also need to purchase new overload coils.

Check size L x W x D

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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
¼ & 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
¼	4L218B
1/3	4L218B
½	4L218B
¾	4L218B
1	4L218B
1½	4L218C
2	4L218D
3	4L218F
5	4L218H

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BREAKERS – “QUICKLAG C” TYPE, SINGLE POLE, 5000 AMPERE INTERRUPTING CAPACITY, 120/240 VAC (TYPICALLY CONTROLS CIRCUIT BREAKER)

PART DESCRIPTION	PART #
5, Continuous Amp Rating	4L82A
10, Continuous Amp Rating	4L82B
15, Continuous Amp Rating	4L82C
20, Continuous Amp Rating	4L82D
25, Continuous Amp Rating	4L82E
30, Continuous Amp Rating	4L82F
35, Continuous Amp Rating	4L82G
40, Continuous Amp Rating	4L82H
50, Continuous Amp Rating	4L82J
55, Continuous Amp Rating	4L82K
60, Continuous Amp Rating	4L82L
70, Continuous Amp Rating	4L82M
100, Non-Automatic	4L82N
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

PART DESCRIPTION	PART #
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**.

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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
45, Continuous Amp Rating	4L258BP
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

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ELECTRICAL COMPONENTS (CONTINUED)

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 #
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 Strip	4L83
15 Amp, Continuous Amp Rating 2 - Pole	4L218B

* Not UL Listed

** Low Usage Item

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ELECTRICAL COMPONENTS (CONTINUED)

BREAKERS – THERMAL MAGNETIC TYPE EHD, 1/2/3 POLE, 15-100 AMPS (14,000 AMPS INTERRUPTING CAPACITY) (3-POLE BREAKERS 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.)
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 2/3 POLE	4L258AL	4L258BL	4L258CL
100 Molded Case High Magnetic Switch	-	4L258BM	4L258CM

PART DESCRIPTION	PART #
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	CONTINUOUS AMP RATING	PART #
90 – 300	30	4L164D
150 – 500	50	4L164E
300 – 1000	100	4L164F
450 – 1500	150	4L164G

** Low Usage Item

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ELECTRICAL COMPONENTS (CONTINUED)

MOTORS – VERTICAL “P”

BASE PUMP MOTORS, ODP, 3/60/230-460 VOLT			STANDARD SEAL
HORSEPOWER	RPM	OLD PART #	NEW PART #
1 hp, Motor	900	95L39-1	95L39041-1AA001R0
1½ hp, Motor	900	95L39-2	95L39051-1AA001R0
2 hp, Motor	900	95L39-3	95L39061-1AA001R0
2 hp, Motor	1200	95L39-4	95L39161-1AA001R0
3 hp, Motor	900	95L39-5	95L39071-1AA001R0
3 hp, Motor	1200	95L39-6	95L39171-1AA001R0
3 hp, Motor	1800	95L39-28	95L39271-1AA001R0
5 hp, Motor	900	95L39-8	95L39081-1AA001R0
5 hp, Motor	1200	95L39-9	95L39181-1AA001R0
5 hp, Motor	1800	95L39-10	95L39281-1AA001R0
7½ hp, Motor	900	95L39-11	95L39091-1AA001R0
7½ hp, Motor	1200	95L39-12	95L39191-1AA001R0
7½ hp, Motor	1800	95L39-13	95L39291-1AA001R0
10 hp, Motor	900	Consult Factory *	Consult Factory *
10 hp, Motor	1200	95L39-15	95L391A1-1AA001R0
10 hp, Motor	1800	95L39-16	95L392A1-1AA001R0
15 hp, Motor	900	95L39-17	95L390B2-1AA001R0
15 hp, Motor	1200	95L39-18	95L391B2-1AA001R0
15 hp, Motor	1800	95L39-19	95L392B1-1AA001R0
20 hp, Motor	900	Consult Factory *	95L390C3-1AA001R0
20 hp, Motor	1200	Consult Factory *	Consult Factory *
20 hp, Motor	1800	Consult Factory *	Consult Factory *
25 hp, Motor	1200	95L39-23	95L391D3-1AA001R0
25 hp, Motor	1800	95L39-24	95L392D2-1AA001R0
30 hp, Motor	1200	95L39-25	95L391E3-1AA001R0
30 hp, Motor	1800	95L39-26	95L392E2-1AA001R0
40 hp, Motor	1200	95L39-46	95L391F3-1AA001R0
40 hp, Motor	1800	95L39-27	95L392F3-1AA001R0
50 hp, Motor	1200	95L39-47	95L391G3-1AA001R0
50 hp, Motor	1800	95L39-34	95L392G3-1AA001R0
60 hp, Motor	1200	95L39-48	95L391H3-1AA001R0
60 hp, Motor	1800	95L39-52	95L392H3-1AA001R0
75 hp, Motor	1200	95L39-49	95L391J3-3BA002B0
75 hp, Motor	1800	95L39-53	95L392J3-3BA000B0

- Need shaft size confirmation to determine correct motor

- MOTORS — TEFC, Explosion-proof, Immersible call factory for sizing, pricing, and delivery

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MECHANICAL, PIPING, & PARTS

PUMP PARTS	4B2*1	4B2A*1	4B3
<i>VERIFY ALL CASTED PARTS WITH FACTORY</i>	Pump	Pump	Pump
Shaft Diameter	1 $\frac{7}{8}$ "	1 $\frac{7}{8}$ "	1 $\frac{7}{8}$ "
Impeller, CW (Clockwise)	60D21	60C76	60D43
Impeller, CCW (Counter-Clockwise)	60D42	60C75	60D1
Maximum Diameter	10 $\frac{1}{8}$ "	10 $\frac{1}{8}$ "	12"
Suction Side - Diameter Eye	4"	4"	4"
Front Head	4" - 60C115-300 * 6" - 60C157-300	4" - 60C115-300 * 6" - 60C157-300	4" - 60C85-300 6" - 60C87-300
<i>(Front Heads listed above are for stations WITHOUT Pump Stands. Review Bill of Material to determine whether front head called out on job)</i>			
Pump Stand			
<i>(with an Integrated Front Head)</i>			
4" & 6" suction ell:	60D5-300	60D5-300	60D15-300
8" suction ell:	60D105-300	60D105-300	n/a
Volute	60D7-300	60D7-300	60D249-300
Volute Gasket (1/64 & 1/16 thickness available)	60A26 (1/32")	60A26 (1/32")	60A28 (1/32")
Motor Adapter – Also sell S/N NAMEPLATE	60C8-300	60C8-300	60D3-300
Impeller Bolt	60A12	60A12	60A12
Impeller Washer	60A20	60A20	60A20

* Replaces 89C1

PARTS ORDERING NOTES:

1. Remind customer that gaskets may be needed when ordering casted parts
2. Some product code 17's and 18's do not have pump stands.

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MECHANICAL, PIPING, & PARTS (CONTINUED)

PUMP PARTS		4B4A PUMP	4C2 PUMP	4C2A PUMP
<i>VERIFY ALL CASTED PARTS WITH FACTORY</i>				
Shaft Diameter		1 7/8"	2 1/8"	2 1/8"
Impeller, CW (Clockwise)		60D172	60D63	60C77
Impeller, CCW (Counter-Clockwise)		60D171	60D64	60C78
Maximum Diameter		15"	10-1/8"	10-1/8"
Suction Side - Diameter Eye		4"	4"	4"
Front Head	4":	60B119-300	60C115-300	60C115-300
	6":	60B120-300	60C157-300	60C157-300
Front Head *(OLD PN's)	4":	*60C89-300	60C115-300	60C115-300
	6":	*60C86-300	60C157-300	60C157-300
<i>(Front Heads listed above are for stations WITHOUT Pump Stands. Review Bill of Material to determine whether front head called out on job)</i>				
Adapter plate (for old 4" with pump stand)		60C84-300	n/a	n/a
Pump Stand (<i>with an Integrated Front Head</i>) :		60D255-300	60D5-300	60D5-300
OLD PN:		60D15-300	-	-
with 8" suction ell:		n/a	60D105-300	60D105-300
Volute *		60A252-300 OLD 60A161-300	60D7-300	60D7-300
Volute Gasket (1/64 & 1/16 thickness available)		60A106B (1/32")	60A26 (1/32")	60A26 (1/32")
Motor Adapter – Also sell S/N NAMEPLATE		60D167A-300	60D62-300	60D62-300
OLD PN:		60D167-300	-	-
with 20HP motor:		n/a	60C8A-300	60C8A-300
Impeller Bolt		60A12	60A12	60A12
Impeller Washer		60A20	60A20	60A20

* C & D shafts with high head seals may need different volute & gasket – consult factory

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PUMP PARTS	4C3	4C4A	4C5
<i>VERIFY ALL CASTED PARTS WITH FACTORY</i>	PUMP	PUMP	PUMP
Shaft Diameter	2 1/8"	2 1/8"	2 1/8"
Impeller, CW (Clockwise)	60D44	60D170	60D238
Impeller, CCW (Counter-Clockwise)	60D23	60D169	60D239
Maximum Diameter	12"	15"	18"
Suction Side - Diameter Eye	4"	4"	6"
Front Head			
4":	60C85-300	60B119-300	NOT
6":	60C87-300	60B120-300	REQUIRED
Front Head (OLD PN's)		OLD	
4":	-	60C89-300	NOT
6":		60C86-300	REQUIRED
<i>(Front Heads listed above are for stations WITHOUT Pump Stands.</i>			
<i>Review Bill of Material to determine whether front head called out on job)</i>			
Adapter plate (for old 4" with pump stand)	n/a	60C84-300	n/a
Pump Stand (<i>with an Integrated Front Head</i>)	60D15-300	60D255-300	60D237-300
Volute *	60D249-300 **	60D252-300 OLD: 60D161-300	60D236-300
Volute Gasket (1/64 & 1/16 thickness available)	60A28 (1/32")	60A106B (1/32") OLD: 60D166-300	60A107B (1/32")
Motor Adapter - Also sell S/N NAMEPLATE with 20 HP motor:	60D14-300 60D3A-300	60D166A-300 n/a	60D194-300 n/a
Impeller Bolt	60A12	60A12	60A12
Impeller Washer	60A20	60A20	60A20

* C & D shafts with high head seals may need different volute & gasket – consult factory

** Replaces 60D2

PARTS ORDERING NOTES:

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MECHANICAL, PIPING, & PARTS (CONTINUED)

PUMP PARTS <i>VERIFY ALL CASTED PARTS WITH FACTORY</i>	4D3 PUMP	4D4A PUMP	4D5 PUMP
Shaft Diameter	3"	3"	3"
Impeller, CW (Clockwise)	60D129	60D164	60D234
Impeller, CCW (Counter-Clockwise)	60D193	60D163	60D235
Maximum Diameter	12"	15"	18"
Suction Side - Diameter Eye	4"	4"	6"
Front Head			
4":	60C85-300	60B119-300	NOT
6":	60C87-300	60B120-300	REQUIRED
Front Head *(OLD PN's)			
4":	-	60C89-300	NOT
6":	-	60C86-300	REQUIRED
<i>(Front Heads listed above are for stations WITHOUT Pump Stands. Review Bill of Material to determine whether front head called out on job)</i>			
Adapter plate (for old 4" with pump stand)	n/a	60C84-300	n/a
Pump Stand <i>(with an Integrated Front Head)</i>	60D15-300	60D255-300 OLD 60D15-300	60D237-300
Volute *	60D249-300 **	60D252-300 OLD 60D161-300	60D236-300
Volute Gasket (1/64 & 1/16 thickness available)	60A28 (1/32")	60A106B (1/32")	60A107B (1/32")
Motor Adapter - Also sell S/N NAMEPLATE	60D111-300	60D162-300 OR 60D253-300	60D182-300
Impeller Bolt	60A87	60A87	60A87
Impeller Washer	60A86	60A86	60A86

* C & D shafts with high head seals may need different volute & gasket – consult factory

** Replaces 60D2

*** Refer to job file for correct part number

PARTS ORDERING NOTES:

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MECHANICAL, PIPING, & PARTS (CONTINUED)

PUMP PARTS <i>VERIFY ALL CASTED PARTS WITH FACTORY</i>	6B3 PUMP	6B3A PUMP	6B3C PUMP
Shaft Diameter	1 7/8"	1 7/8"	1 7/8"
Impeller, CW (Clockwise)	60D45	60D203	60D222
Impeller, CCW (Counter-Clockwise)	60D34	60D202	60D224
Maximum Diameter	12"	12"	12"
Suction Side - Diameter Eye	5-1/8"	6"	6"
Front Head	60C88-300	60C90-300	60C90-300
Pump Stand	60D4-300	60D185-300	60D185-300
Volute <i>(Some pumps have integral front heads. Call Factory before ordering to verify.)</i>	60D35-300	60D35-300	60D214-300
Volute Gasket (1/64 & 1/16 thickness available)	60A28 (1/32")	60A28 (1/32")	60A28 (1/32")
Motor Adapter - Also sell S/N NAMEPLATE	60D3-300	60D3-300	60D3-300
Impeller Bolt	60A12	60A12	60A12
Impeller Washer	60A20	60A20	60A20

PUMP PARTS <i>VERIFY ALL CASTED PARTS WITH FACTORY</i>	6B4C PUMP	6C3 PUMP	6C3A PUMP
Shaft Diameter	1 7/8"	2 1/8"	2 1/8"
Impeller, CW (Clockwise)	60D201	60D47	60D187
Impeller, CCW (Counter-Clockwise)	60D200	60D46	60D186
Maximum Diameter	15"	12"	12"
Suction Side - Diameter Eye	6"	5-1/8"	6"
Front Head	NOT REQUIRED	60C88-300	60C90-300
Pump Stand	60D191-300	60D4-300	60D185-300
Volute *	60D190-300	60D35-300	60D35-300
Volute Gasket (1/64 & 1/16 thickness available)	60A106B (1/32")	60A28 (1/32")	60A28 (1/32")
Motor Adapter -Also sell S/N NAMEPLATE with 20 HP motor:	60D137-300 n/a	60D14-300 60D3A-300	60D14-300 n/a
Impeller Bolt	60A12	60A12	60A12
Impeller Washer	60A20	60A20	60A20

* C & D shafts with high head seals may need different volute & gasket- consult factory

PARTS ORDERING NOTES:

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PUMP PARTS <i>VERIFY ALL CASTED PARTS WITH FACTORY</i>	6C3C PUMP	6C4C PUMP	6D3 PUMP
Shaft Diameter	2 1/8"	2 1/8"	3"
Impeller, CW (Clockwise)	60D221	60D198	60D90
Impeller, CCW (Counter-Clockwise)	60D223	60D199	60D192
Maximum Diameter	12"	15"	12"
Suction Side - Diameter Eye	6"	6"	5"
Front Head	60C90-300	<i>NOT REQUIRED</i>	60C88-300
Pump Stand	60D185-300	60D191-300	60D4-300
Volute * <i>(Some pumps have integral front heads. Call Factory before ordering to verify.)</i>	60D214-300	60D190-300	60D35-300
Volute Gasket (1/64 & 1/16 thickness available)	60A28 (1/32")	60A106B (1/32")	60A28 (1/32")
Motor Adapter - Also sell S/N NAMEPLATE with 20 HP motor:	60D14-300 60D3A-300	60D121-300 n/a	60D111-300 n/a
Impeller Bolt	60A12	60A12	60A87
Impeller Washer	60A20	60A20	60A86

PUMP PARTS <i>VERIFY ALL CASTED PARTS WITH FACTORY</i>	6D3A PUMP	6D3C PUMP	6D4C PUMP
Shaft Diameter	3"	3"	3"
Impeller, CW (Clockwise)	60D176	60D212	60D188
Impeller, CCW (Counter-Clockwise)	60D168	60D213	60D189
Maximum Diameter	12"	12"	15"
Suction Side - Diameter Eye	6"	6"	6"
Front Head	60C90-300	60C90-300	<i>NOT REQUIRED</i>
Pump Stand	60D185-300	60D185-300	60D191-300
Volute *	60D35-300	60D214-300	60D190-300
Volute Gasket (1/64 & 1/16 thickness available)	60A28 (1/32")	60A28 (1/32")	60A106B (1/32")
Motor Adapter - Also sell S/N NAMEPLATE	60D111-300	60D111-300	60D114-300
Impeller Bolt	60A87	60A87	60A87
Impeller Washer	60A86	60A86	60A86

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PARTS ORDERING NOTES:

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MECHANICAL, PIPING, & PARTS (CONTINUED)

PUMP PARTS	8B4A PUMP	8B4B PUMP	8B4C PUMP
<i>VERIFY ALL CASTED PARTS WITH FACTORY</i>			
Shaft Diameter	1 7/8"	1 7/8"	1 7/8"
Impeller, CW (Clockwise)	60D138	60D209	60D201
Impeller, CCW (Counter-Clockwise)	60D139	60D210	60D200
Maximum Diameter	15"	15"	15"
Suction Side - Diameter Eye	8"	7"	6"
Front Head	<i>NOT REQUIRED</i>	<i>NOT REQUIRED</i>	<i>NOT REQUIRED</i>
Pump Stand	60D115-300	60D160-300	60D191-300
Volute <i>(Some pumps have integral front heads. Call Factory before ordering to verify.)</i>	60D116-300	60D116-300	60D211-300
Volute Gasket <i>(1/64 & 1/16 thickness available)</i>	60A88 <i>(1/32")</i>	60A88 <i>(1/32")</i>	60A88 <i>(1/32")</i>
Motor Adapter - Also sell S/N NAMEPLATE	60D137-300	60D137-300	60D137-300
Impeller Bolt	60A12	60A12	60A12
Impeller Washer	60A20	60A20	60A20

PUMP PARTS	8C4A PUMP	8C4B PUMP	8C4C PUMP
<i>VERIFY ALL CASTED PARTS WITH FACTORY</i>			
Shaft Diameter	2 1/8"	2 1/8"	2 1/8"
Impeller, CW (Clockwise)	60D120	60D178	60D198
Impeller, CCW (Counter-Clockwise)	60D119	60D179	60D199
Maximum Diameter	15"	15"	15"
Suction Side - Diameter Eye	8"	7"	6"
Front Head	<i>NOT REQUIRED</i>	<i>NOT REQUIRED</i>	<i>NOT REQUIRED</i>
Pump Stand	60D115-300	60D160-300	60D191-300
Volute *	60D116-300	60D116-300	60D211-300
Volute Gasket <i>(1/64 & 1/16 thickness available)</i>	60A88 <i>(1/32")</i>	60A88 <i>(1/32")</i>	60A88 <i>(1/32")</i>
Motor Adapter - Also sell S/N NAMEPLATE	60D121-300	60D121-300	60D121-300
Impeller Bolt	60A12	60A12	60A12
Impeller Washer	60A20	60A20	60A20

* C & D shafts with high head seals may need different volute & gasket – consult factory

PARTS ORDERING NOTES:

1. Remind customer that gaskets may be needed when ordering casted parts
2. Some product code 17's and 18's do not have pump stands.

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PUMP PARTS <i>VERIFY ALL CASTED PARTS WITH FACTORY</i>	8C5A PUMP	8D4A PUMP	8D4B PUMP
Shaft Diameter	2 1/8"	3"	3"
Impeller, CW (Clockwise)	60D196	60D118	60D150
Impeller, CCW (Counter-Clockwise)	60D197	60D117	60D151
Maximum Diameter	18"	15"	15"
Suction Side - Diameter Eye	8"	8"	7"
Front Head	<i>NOT REQUIRED</i>	<i>NOT REQUIRED</i>	<i>NOT REQUIRED</i>
Pump Stand	60D184-300	60D115-300	60D160-300
Volute * <i>(Some pumps have integral front heads. Call Factory before ordering to verify.)</i>	60D195-300	60D116-300	60D116-300
Volute Gasket (1/64 & 1/16 thickness available)	60A107B (1/32")	60A88 (1/32")	60A88 (1/32")
Motor Adapter - Also sell S/N NAMEPLATE	60D194-300	60D114-300	60D114-300
Impeller Bolt	60A12	60A87	60A87
Impeller Washer	60A20	60A86	60A86

PUMP PARTS <i>VERIFY ALL CASTED PARTS WITH FACTORY</i>	8D4C PUMP	8D5A PUMP
Shaft Diameter	3"	3"
Impeller, CW (Clockwise)	60D188	60D180
Impeller, CCW (Counter-Clockwise)	60D189	60D181
Maximum Diameter	15"	18"
Suction Side - Diameter Eye	6"	8"
Front Head	<i>NOT REQUIRED</i>	<i>NOT REQUIRED</i>
Pump Stand	60D191-300	60D184-300
Volute *	60D211-300	60D195-300
Volute Gasket (1/64 & 1/16 thickness available)	60A88 (1/32")	60A107B (1/32")
Motor Adapter - Also sell S/N NAMEPLATE	60D114-300	60D182-300
Impeller Bolt	60A87	60A87
Impeller Washer	60A86	60A86

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MECHANICAL, PIPING, & PARTS (CONTINUED)

PUMP PARTS <i>VERIFY ALL CASTED PARTS WITH FACTORY</i>	10C5A PUMP	10D5A PUMP	10D6 PUMP
Shaft Diameter	2 $\frac{1}{8}$ "	3"	3"
Impeller, CW (Clockwise)	60D196	60D180	60D155
Impeller, CCW (Counter-Clockwise)	60D197	60D181	60D156
Maximum Diameter	18"	18"	21"
Suction Side - Diameter Eye	8"	8"	10"
Front Head	<i>NOT REQUIRED</i>	<i>NOT REQUIRED</i>	<i>NOT REQUIRED</i>
Pump Stand	60D184-300	60D184-300	60D154-300
Volute * <i>(Some pumps have integral front heads. Call Factory before ordering to verify.)</i>	60D183-300	60D183-300	60D157-300
Volute Gasket (1/64 & 1/16 thickness available)	60A107B (1/32")	60A107B (1/32")	60A101B (1/32")
Motor Adapter - Also sell S/N NAMEPLATE	60D194-300	60D182-300	60D158-300
Impeller Bolt	60A12	60A87	60A87
Impeller Washer	60A20	60A86	60A86

PUMP PARTS <i>VERIFY ALL CASTED PARTS WITH FACTORY</i>	12D5 PUMP
Shaft Diameter	3"
Impeller, CW (Clockwise)	60D134
Impeller, CCW (Counter-Clockwise)	60D207
Maximum Diameter	18 $\frac{3}{32}$ "
Suction Side - Diameter Eye	11"
Front Head	60C91-300
Pump Stand	60D206-300
Volute *	60D208-300
Volute Gasket (1/64 & 1/16 thickness available)	60A109B (1/32")
Motor Adapter - Also sell S/N NAMEPLATE	60D79-300
Impeller Bolt	60A87
Impeller Washer	60A86

* C & D shafts with high head seals may need different volute & gasket – consult factory

PARTS ORDERING NOTES:

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MECHANICAL SEALS

SEAL & SPARE PARTS (DOUBLE SEALS)	B-SHAFT 1-7/8"	C-SHAFT 2-1/8"	D-SHAFT 3"
Seal Kit, Mechanical Seal	H60A119	H60A120	H60A121
Complete Seal & Housing Assembly (Parts include Upper Housing thru Lower Housing) (Order one extra Seal Housing Quad Ring)	60C98 Replaces P/N: 28C15	60C99 Replaces P/N: 28C16	60C100 Replaces P/N: 28C17
Bronze Seal Housing, Upper	60C92 Obsolete P/N: 60C9	60C94 Obsolete P/N: 60C18	60C96 Obsolete P/N: 60C56
Bronze Seal Housing, Lower	60C93 Obsolete P/N: 60C10	60C95 Obsolete P/N: 60C19	60C97 Obsolete P/N: 60C57
Seal Housing – Flat Gasket **	60A11	60A17	60A84
Seal Housing - Quad Ring **	60A110	60A111	60A112
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 Bolts	60A12	60A12	60A87
Impeller Washer	60A20	60A20	60A86
Volute Gaskets	See Volute Gasket Table		

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

* Parts contained in H60A119, H60A120, or H60A121 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.

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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 BALANCE SLEEVE)	H60A156	H60A137
Complete Assembly including Bronze Seal Housing & Mechanical Seal (Parts include Upper Housing thru Lower Housing) (Order one extra Seal Housing Quad Ring)	60C160	60C113
Bronze Seal Housing, Upper	60C94	60C96
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	60C159**	60C112**
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 contained in H60A156 or H60A137 Double Balanced Mechanical Seal Kits

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

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.

**** **NOTE:** Series 4 Pump C&D Shaft Station-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.

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SINGLE MECHANICAL SEALS-SEAL HOUSING

PUMP	SEAL HOUSING	SPARE SEAL ASSEMBLY	GASKET QUAD RING
4B2F/4B2G	28B683	H87A28	60A110
4B3A/6B3D/6B3E	28B673	H87A28	60A110
4C3A/6C3D/6C3E	28B674	H87A97	60A111
4D3A/6D3D/6D3E	28B675		60A112

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GASKETS, VOLUTE PUMP SIZE	STANDARD GASKET PART #	OTHER GASKETS 1/64" & 1/16" THICKNESS
4B2*1, 4B2A*1, 4C2, 4C2A	60A26 (1/32")	60A27 (1/16")
4B3, 4C3, 4D3, 4D3A, 6B3, 6B3A, 6B3C, 6C3, 6C3A, 6C3C, 6D3, 6D3A, 6D3C	60A28 (1/32")	60A29 (1/16")
6B4C, 6C4C, 6D4C, 8B4A, 8B4B, 8B4C, 8C4A, 8C4B, 8C4C, 8D4A, 8D4B, 8D4C	60A88 (1/32")	60A90 (1/64") 60A89 (1/16")
10D6	60A101B (1/32")	60A101A (1/64") 60A101C (1/16")
4B4A, 4C4A, 4D4A	60A106B (1/32")	60A106A (1/64") 60A106C (1/16")
4C5, 4D5, 8C5A, 8D5A, 10C5A, 10D5A	60A107B (1/32")	60A107A (1/64") 60A107C (1/16")
12D5	60A109B (1/32")	60A109A (1/64") 60A109C (1/16")

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

PUMP X-PELLER® IMPELLERS – FLOODED SUCTION

PUMP MODEL	MOTOR RPM	IMPELLER CW PART #	IMPELLER CCW PART #	ADDITIONAL PARTS 1 SET PER IMPELLER PART#
4B2Y	-	60B252A	60B252B	60A12, 60A20, 60A26
4B2Y	-	60B252A	60B252B	60A12, 60A20, 60A26
4B2Y	-	60B252A	60B252B	60A12, 60A20, 60A26
4C2Y	1800	60B252C	60B252D	60A12, 60A20, 60A26
6B3Y	-	60B204	60B209	60A12, 60A20, 60A28
6C3Y	-	60B217	60B2118	60A12, 60A20, 60A28
6D3Y	-	60B219	60B220	60A87, 60A86, 60A28

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PUMP IMPELLERS PUMP MODEL	CLOCKWISE	COUNTER- CLOCKWISE	ADDITIONAL PARTS 1 SET PER IMPELLER
	PART #	PART #	PART #
4B2*1	60D21	60D42	60A12, 60A20, 60A26
4B2A*1	60C76	60C75	60A12, 60A20, 60A26
4B3	60D43	60D1	60A12, 60A20, 60A28
4B4A	60D172	60D171	60A12, 60A20, 60A106B
4C2	60D63	60D64	60A12, 60A20, 60A26
4C2A	60C77	60C78	60A12, 60A20, 60A26
4C3	60D44	60D23	60A12, 60A20, 60A28
4C4A	60D170	60D169	60A12, 60A20, 60A106B
4C5	60D238	60D239	60A12, 60A20, 60A107B
4D3	60D129	60D193	60A87, 60A86, 60A28
4D4A	60D164	60D163	60A87, 60A86, 60A106B
4D5	60D234	60D235	60A87, 60A86, 60A107B
6B3	60D45	60D34	60A12, 60A20, 60A28
6B3A	60D203	60D202	60A12, 60A20, 60A28
6B3C	60D222	60D224	60A12, 60A20, 60A28
6B4C	60D201	60D200	60A12, 60A20, 60A88
6C3	60D47	60D46	60A12, 60A20, 60A28
6C3A	60D187	60D186	60A12, 60A20, 60A28
6C3C	60D221	60D223	60A12, 60A20, 60A28
6C4C	60D198	60D199	60A12, 60A20, 60A88
6D3	60D90	60D192	60A87, 60A86, 60A28
6D3A	60D176	60D168	60A87, 60A86, 60A28
6D3C	60D212	60D213	60A87, 60A86, 60A28
6D4C	60D188	60D189	60A87, 60A86, 60A88
8B4A	60D138	60D139	60A12, 60A20, 60A88
8B4B	60D209	60D210	60A12, 60A20, 60A88
8B4C	60D201	60D200	60A12, 60A20, 60A88
8C4A	60D120	60D119	60A12, 60A20, 60A88
8C4B	60D178	60D179	60A12, 60A20, 60A88
8C4C	60D198	60D199	60A12, 60A20, 60A88
8C5A	60D196	60D197	60A12, 60A20, 60A107B
8D4A	60D118	60D117	60A87, 60A86, 60A88
8D4B	60D150	60D151	60A87, 60A86, 60A88
8D4C	60D188	60D189	60A87, 60A86, 60A88
8D5A	60D180	60D181	60A87, 60A86, 60A107B
10C5A	60D196	60D197	60A12, 60A20, 60A107B
10D5A	60D180	60D181	60A87, 60A86, 60A107B
10D6	60D155	60D156	60A87, 60A86, 60A101B
12D5	60D134	60D207	60A87, 60A86, 60A109B

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SUCTION ELBOWS		
PART DESCRIPTION	FLANGE GASKETS REQUIRED	PART #
4 X 4 Standard	11L1A (2 Req.)	2L7A-300
4 X 4 S&L	11L1A (2 Req.)	28A92-300
4 X 6 Standard	11L1A (1 Req.) 11L1C (1 Req.)	2L11A-300
4 X 6 S&L	11L1A (1 Req.) 11L1C (1 Req.)	28C114-300
4 X 8 Standard	11L1A (1 Req.) 11L1D (1 Req.)	2L11B-300
5 X 6 Standard	11L1B (1 Req.) 11L1C (1 Req.)	2L11K-300
5 X 8 Standard	11L1B (1 Req.) 11L1D (1 Req.)	2L11L-300
6 X 6 Standard	11L1C (2 Req.)	2L7B-300
6 X 8 S&L	11L1C (1 Req.) 11L1D (1 Req.)	28C531-300
5 X 10 S&L	11L1B (1 Req.) 11L1E (1 Req.)	28C169-300
8 X 4 Reducing	11L1D (1 Req.) 11L1A (1 Req.)	28A214B-300
8 X 8 Standard	11L1D (2 Req.)	2L7C-300
8 X 10 Standard	11L1D (1 Req.) 11L1E (1 Req.)	2L11F-300
8 X 12 Standard	11L1D (1 Req.) 11L1F (1 Req.)	2L11H-300
10 X 10 Standard	11L1E (2 Req.)	2L7D-300
10 X 12 Standard	11L1E (1 Req.) 11L1F (1 Req.)	2L11M-300
4 X 4 Extra Long Sweep (15 $\frac{1}{4}$ "	11L1A (2 Req.)	8A3-300
4 X 6 Extra Long Sweep (15 $\frac{1}{4}$ "	11L1A (1 Req.) 11L1C (1 Req.)	8C1-300

SPACERS	
PART DESCRIPTION	PART #
Spacer (See the 2L28's for specific sizing)	2L28

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OTHER PARTS

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	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	4L222C**
Trickle Charger (OLD STYLE)	4L222

* **PARTS ORDERING NOTE:** Must identify as either Appleton or Killark

**Consult the factory.

ANODE PACK

PART DESCRIPTION	PART #
Magnesium Anode pack - 17 lbs. w/30' lead (Total Weight = 45 lbs.)	12L8
Anode Test Box	Call Retrofit

* **PARTS ORDERING NOTE:** Standard lead 30' other lead lengths are available.

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BLOWERS & VENTILATORS

PART DESCRIPTION	PART #
Blower - 110 CFM (for 17 & 18 Standard stations)	7L40
Blower – Ventilating Blower	7L67
Blower – 350 CFM	7L277
Blower – 815 CFM	7L297
Blower - (replaces 7L7, and Blower part of DWG 28C260 see notes)	F28B795
Blower with Motor, High Pressure, Direct Drive Radial Blade (replaces 7L8, 7L8A, 7L8B – modifications must be made for mounting)	7L8C
Blower – Non-sparking – 205 CFM (replaces 7L138 – modifications must be made for mounting)	7L138D
Duct Fan, 12" (1/4 hp, 1725 rpm) – Hartzell (current style is 7L349A)	7L83A
Timer, 15 Minute Ventilating Blower (replaces 4L41A (10 min) & 4L219A)	4L342

Notes: P/N: DWG 28C260 Dehumidifier/Blower package in old pump stations has to be replaced with the Blower P/N: F28B795 and the Dehumidifier P/N: 11L150L.

DEHUMIDIFIER

PART DESCRIPTION	PART #
Dehumidifier - 115V, 45 Pints per Day – Freestanding	11L150L
Dehumidifier - 115V, 50 Pints per Day – Below Ladder (replaces 11L63 and Dehumidifier part of DWG: 28C260 see notes) (OBSOLETE P/N 11L285A replaced with P/N 11L150L)	OBSOLETE

Notes: P/N: DWG 28C260 Dehumidifier/Blower package in old pump stations has to be replaced with a free-standing dehumidifier P/N: 11L150L to be located in another location within the pump station and Blower P/N: F28B795 still installs below the ladder.

FILTER, PUMP SEAL

PART DESCRIPTION	PART #
Current style (replaces all previous filters)	1L485
Filter Element Kit (bowl o-ring & element)	1L485A
Poly Bowl Kit (bowl, drain kit, bowl o-ring)	1L485B
Twist Drain Kit (twist drain & drain o-ring)	1L485C
Service Kit (bowl o-ring, baffle, deflector)	1L485D

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PUMP SEAL FILTER - PARTS FOR OLD STYLE

PART DESCRIPTION	PART #
Filter Element for 1L371 (replaces the 1L371E)	1L371H
O-ring for 1L371	1L371C
Filter Cone Element "Bronze" for 1L197. Replaces 1L197E Old Style Watt Filter	1L89E

GASKETS

PART DESCRIPTION	PART #
4" Flange Gasket (check valves & suction/discharge piping)	11L1A
6" Flange Gasket (check valves & suction/discharge piping)	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
Seal Housing Gasket - Quad Ring	B-Shaft: 60A110
	C-Shaft: 60A111
	D-Shaft: 60A112

GASKETS, VOLUTE PUMP SIZE

STANDARD GASKET PART

OTHER GASKETS 1/64" & 1/16" THICKNESS

4B2*1, 4B2A*1, 4C2, 4C2A	60A26 (1/32")	60A27 (1/16")
4B3, 4C3, 4D3, 4D3A, 6B3, 6B3A, 6B3C, 6C3, 6C3A, 6C3C, 6D3, 6D3A, 6D3C	60A28 (1/32")	60A29 (1/16")
6B4C, 6C4C, 6D4C, 8B4A, 8B4B, 8B4C, 8C4A, 8C4B, 8C4C, 8D4A, 8D4B, 8D4C	60A88 (1/32")	60A90 (1/64") 60A89 (1/16")
10D6	60A101B (1/32")	60A101A (1/64") 60A101C (1/16")
4B4A, 4C4A, 4D4A	60A106B (1/32")	60A106A (1/64") 60A106C (1/16")
4C5, 4D5, 8C5A, 8D5A, 10C5A, 10D5A	60A107B (1/32")	60A107A (1/64") 60A107C (1/16")
12D5	60A109B (1/32")	60A109A (1/64") 60A109C (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 (CONTINUED)

GAUGES – COMBO GAUGES: MOST COMMON VACUUM-AIR PRESSURE GAUGES	GLYCERIN- FILLED
PART DESCRIPTION	PART #
Handles Up To 65 TDH (0-30" HG: 0-30 PSI) (Old P/N 1L275CB)	1L780B*
Handles Up To 135 TDH (0-30" HG: 0-60 PSI) Old P/N 1L275DB)	1L780C*
Handles Up To 230 TDH (0-30" HG: 0-100 PSI) (Old P/N 1L275EB)	1L780D*
Gauge Guard (built into new gauges, Only needed on new gauges if extra protection is desired.)	1L372A

* **3-1/2" diameter dial (Customer must verify fit. If smaller dial is needed, contact factory)**
PARTS ORDERING TIP: If no gauge is currently in use, order 1L780C. Otherwise, determine correct PSI

GAUGES - AIR PRESSURE – WITH 1/4" MALE PIPE THREAD	
PART DESCRIPTION	PART #
0 – 6 PSI with 2 1/2" Dial	1L84A
0 – 100 PSI with 2 1/2" Dial	1L84B
0 – 30 PSI with 2 1/2" Dial	1L84C
0 – 60 PSI with 3 1/2" Dial	1L84E
0 – 100 PSI with 3 1/2" Dial	1L84F
0 – 30 PSI with 4 1/2" Dial	1L84G
0 – 60 PSI with 4 1/2" Dial	1L84H
0 – 100 PSI with 4 1/2" Dial	1L84J

GAUGES – WET WELL LEVEL	
PART DESCRIPTION	PART #
0 – 60" Water, Total Range, with 2 1/2" Dial	1L119B
0 – 100" Water, Total Range, with 2 1/2" Dial	1L119C
0 – 200" Water, Total Range, with 3 1/2" Dial	1L119D

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OTHER PARTS (CONTINUED)

KEYSTOCK (MOTOR SHAFT KEY)

PART DESCRIPTION	PART #
B Shaft	95L39-0
C Shaft	95L39-0
D Shaft	95L39-01

LIDS

PART DESCRIPTION	PART #
Fiberglass or Steel Lid – MUST also sell s/n name plate	Consult Factory

NOTE: Hardware is not included with the lid. It must be requested separately.

LOCK ASSEMBLY (FOR LID)

PART DESCRIPTION	PART #
Lock Cylinder	11L119AA
Lock Striker	28A380
CAM (Old Part #11L119AB)	28A841
Flat Washer	6L61G
Cotter Pin	6L41AB
Spring	11L118A
Flat Washer	6L61G
Key	11L119AD

O&M'S

PART DESCRIPTION	PART #
O&M's – Requires Job Serial Number	O&MMANUAL

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OTHER PARTS (CONTINUED)

PAINT (VERSAPOX®)	
PART DESCRIPTION	PART #
Dark S&L Green VERSAPOX® , Part A, Gallon	12L104B *
Light Green VERSAPOX® , Part A, Gallon	12L109B *
Aquamarine VERSAPOX® , Part A, Gallon	12L181B *
VERSAPOX® Catalyst, 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

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

SLINGER RINGS (FOR MOTOR SHAFT)

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

SUMP PUMPS

PART DESCRIPTION	PART #
Sump Pump, ½ HP, use with Float Switch 8L43AA	8L43A
Float Switch for 8L43A Sump Pump	8L43AA
Sump Pump, high-capacity, ½ HP (Replaces 8L1)	8L47
Sump Pump, .3 HP (Replaces 8L9)	8L53A
Screen, Sump Pump 10" tall	28B153B

TUBING - VACUUM

PART DESCRIPTION		PART #
Vacuum Tubing – 3/8"	Natural:	1L142BA
	Green:	1L142BB
	Red:	1L142BC
Vacuum Tubing – ¼"	Red:	1L142AC
Vacuum Tubing - ½"	Natural	1L142CA

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

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VALVES

CHECK VALVES – SPRING LOADED

PART DESCRIPTION	SIZE	LAY LENGTH	FLANGE GASKETS REQUIRED		LEFT/RIGHT HAND	PART #
S&L	4"	13 5/16"	11L1A (2 req.)		RIGHT	2L34A-300
S&L	4"	13 5/16"	11L1A (2 req.)		LEFT	2L34AA-300
Eddy-Iowa	6"	15"	11L1C (2 req.)		BOTH	Consult Factory
M&H/Clow	6"	*	11L1C (2 req.)		RIGHT	2L34B-300 *
M&H/Clow	6"	*	11L1C (2 req.)		LEFT	2L34BB-300 *
M&H/Clow	8"	*	11L1C (2 req.)		RIGHT	2L34C-300 *
M&H/Clow	8"	*	11L1C (2 req.)		LEFT	2L34CC-300 *
M&H/Clow	10"	*	11L1C (2 req.)		RIGHT	2L34D-300 *
M&H/Clow	10"	*	11L1C (2 req.)		LEFT	2L34DD-300 *
M&H/Clow	12"	*	11L1C (2 req.)		RIGHT	2L34E-300 *
M&H/Clow	12"	*	11L1C (2 req.)		LEFT	2L34EE-300 *
S&L	4X6	13 5/16"	11L1A (1 req.)	11L1C (1 req.)	RIGHT	2L35A-300
S&L	4X6	13 5/16"	11L1A (1 req.)	11L1C (1 req.)	LEFT	2L35AA-300
S&L	4X8	18 1/4"	11L1A (1 req.)	11L1D (1 req.)	RIGHT	2L35B-300
S&L	4X8	18 1/4"	11L1A (1 req.)	11L1D (1 req.)	LEFT	2L35BB-300
S&L	5X8	18 1/4"			BOTH	OBSOLETE
S&L	6X8	18 1/4"	11L1C (1 req.)	11L1D (1 req.)	RIGHT	2L35D-300
S&L	6X8	18 1/4"	11L1C (1 req.)	11L1D (1 req.)	LEFT	2L35DD-300
M&H or Kennedy	6X10	17 1/2"	11L1C (1 req.)	11L1E (1 req.)	RIGHT	2L70A-300
M&H or Kennedy	8X10	20"	11L1D (1 req.)	11L1E (1 req.)	RIGHT	2L70B-300
M&H or Kennedy	8X12	21"	11L1D (1 req.)	11L1F (1 req.)	RIGHT	2L70C-300
M&H or Kennedy	6X10	17 1/2"	11L1C (1 req.)	11L1E (1 req.)	LEFT	2L70D-300
M&H or Kennedy	8X10	20"	11L1D (1 req.)	11L1E (1 req.)	LEFT	2L70E-300
M&H or Kennedy	8X12	21"	11L1D (1 req.)	11L1F (1 req.)	LEFT	2L70F-300
	10X12	22-1/2"	11L1E (1 req.)	11L1F (1 req.)	RIGHT	2L70G-300
	10X14	25-1/4"	11L1E (1 req.)	11L1G (1 req.)	RIGHT	2L70H-300
	10X12	22-1/2"	11L1E (1 req.)	11L1F (1 req.)	LEFT	2L70J-300
	10X12	25-1/4"	11L1E (1 req.)	11L1G (1 req.)	LEFT	2L70K-300

* PARTS ORDERING NOTE: Must specify "M&H" or "Clow" when ordering replacement valves. The lay length has changed over the years - please contact the S&L factory to determine which valve replaces this valve.

REPLACEMENT PARTS NOTE: For valves prior to 1995, a NEW valve must be ordered.

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VALVES (CONTINUED)

PARTS FOR S&L SPRING LOADED CHECK VALVES

SIZE	4", 4"X 6"	4"X 8", 5"X 8", 6"X 8"
PART DESCRIPTION	PART #	PART #
Clapper Disk	55A9	55A16
Arm	55A23	55A25
Seat	55A11	55A17
Shaft	55B25	55B26
Cover Gasket	55A20	55A24
Retaining Collar	55A22	55A27
O-Ring	11L4C	11L4F
Roll Pin	11L149C	11L85D
Spring	11L88A	11L88B
Handle	55A1	55B23
Nut	6L226A	6L226B
Cotter Pin	6L39BC	6L39CF
Flange Gasket	11L1A	11L1C
Eye Bolt	6L55L	6L55L

GATE VALVES – DISCHARGE (replaces 2L62 valves & 2L32 up through 12" dia)

PART DESCRIPTION	FLANGE GASKETS REQUIRED	PART #
4", with 9" lay length (Replaces 2L62A & 2L32A)	11L1A (2 Req.)	2L196A-300
6", with 10½" lay length (Replaces 2L62B & 2L32B)	11L1C (2 Req.)	2L196B-300
8", with 11½" lay length (Replaces 2L62C & 2L32C)	11L1D (2 Req.)	2L196C-300
10", with 13" lay length (Replaces 2L62D & 2L32D)	11L1E (2 Req.)	2L196D-300
12", with 14" lay length (Replaces 2L62E & 2L32E)	11L1F (2 Req.)	2L196E-300

GATE VALVES – SUCTION (replaces 2L64, 2L160 & 2L33 valves)

VALVE SIZE	PART #	SPOOL PIECE PART#	GASKET PART#
4" (Replaces 2L64A & 2L33A)	2L196A-300	(not needed)	11L1A (2 req.)
(KNIFE VALVE)			
6" (Replaces 2L64B L.L. 9-1/2" & 2L33B) *	2L281B (L.L. 2-1/4")	2L86B007C-300 (L.L. 7-3/16")	11L1C (3 req.)
8" (Replaces 2L64C L.L. 10" & 2L33C) *	2L281C (L.L. 2-3/4")	2L86C007C-300 (L.L. 7-3/16")	11L1D (3 req.)
10" (Replaces 2L64D L.L. 11" & 2L33D) *	2L281D (L.L. 2-3/4")	2L86D008B-300 (L.L. 8-1/8")	11L1E (3 req.)
12" (Replaces 2L64E L.L. 12" & 2L33E) *	2L281E (L.L. 3")	2L86E008Q-300 (L.L. 8-15/16")	11L1F (3 req.)

* **PARTS ORDERING NOTE:** Requires (1) Knife Valve, (1) Spool Piece, & (3) Flange Gaskets

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VALVES (CONTINUED)

PLUG VALVES

VALVE SIZE	GASKET PART #	PART #
4"	11L1A (2 Req.)	2L77A-300
6"	11L1C (2 Req.)	2L77BM-300
8"	11L1D (2 Req.)	2L77CM-300
10" – 20" with Handwheels (2L92__)	Consult Factory	Consult Factory

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BUBBLER SYSTEM – STORED AIR

COMPRESSORS & PARTS FOR STORED AIR SYSTEMS

PART DESCRIPTION	PART #
Compressor WITH Stored Air Tank (<i>old PN 9L17, 9L35A</i>)	9L35D
Compressor ONLY for 9L17	9L8
Compressor ONLY for 9L35D	9L34
Air Line Regulator Assembly	1L305A
Purge Rotometer	1L306A

BUBBLER SYSTEM – DIRECT AIR

COMPRESSORS FOR DIRECT AIR SYSTEMS

PART DESCRIPTION	PART #
Compressor (old style) (replaces 9L11 & 9L11A)	9L25*
Compressor (new style)	9L25C*
Vibration Isolator + Hardware	See Section 9

PARTS FOR 9L25 COMPRESSOR (OLD STYLE)-NOT ALL PARTS SHOWN BELOW ARE AVAILABLE-CONSULT FACTORY

PART DESCRIPTION	PART #
Repair Kit	9L25-43

* Older stations using mounts that rivet to the panel instead of being threaded (for screw-in) will require modification.

PARTS FOR 9L34 COMPRESSOR (OLD STYLE)-NOT ALL PARTS SHOWN BELOW ARE AVAILABLE-CONSULT FACTORY

PART DESCRIPTION	PART #
Repair Kit	9L34-6

* Older stations using mounts that rivet to the panel instead of being threaded (for screw-in) will require modification.

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BUBBLER SYSTEM – DIRECT AIR (CONTINUED)

PARTS FOR 9L25C COMPRESSOR (NEW STYLE)

PART DESCRIPTION	PART #
Rebuild Kit (See * for items included in kit)	9L25C-1
Cover, Head	9L25C-2
Head Gasket	9L25C-3 *
Filter Element (2 required)	9L25C-4 *
Nut	9L25C-5
Valve Retainer	9L25C-6 *
Limiter	9L25C-7 *
Leaf Valve	9L25C-8 *
Leaf Valve, Exhaust	9L25C-9 *
Screw	9L25C-10
Head	9L25C-11
Retainer Plate	9L25C-12
Diaphragm	9L25C-13
Fan	9L25C-14
Fan	9L25C-15
Grille (2 required)	9L25C-16
Head Assembly	9L25C-17

PARTS FOR BUBBLER SYSTEMS

PART DESCRIPTION	PART #
Sight Feed (replaces 1L90 used in older stations)	1L280
Sight Glass	1L111
Tube for Sight Glass (6")	1L110
Bubbler Line Clamp	1L292A
Needle Valve	1L306
Purge Valve	1L408
Tubing 1/2"	1L142CA
Simulating Valve	1L436A
Snubber	1L186A
Strainer (replaces 1L143), use with adapters listed below	1L527A
90° elbow	1L190B
Connector	1L248A

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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 Double Mechanical Seal – 1-7/8"	H60A119
<input type="checkbox"/> C-Shaft Double Mechanical Seal – 2-1/8"	H60A120
<input type="checkbox"/> D-Shaft Double Mechanical Seal – 3"	H60A121
<input type="checkbox"/> Balanced C-Shaft Double Mechanical Seal (High Head)	H60A156
<input type="checkbox"/> C-Shaft Balance Sleeve – 2-1/8"	60C159
<input type="checkbox"/> Balanced D-Shaft Double Mechanical Seal (High Head)	H60A137
<input type="checkbox"/> D-Shaft Balance Sleeve – 3"	60C112
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"/> 4B2*1, 4B2A*1, 4C2, 4C2A	60A26 ($\frac{1}{32}$ ")
<input type="checkbox"/> 4B3, 4C3, 4D3, 4D3A, 6B3, 6B3A, 6B3C, 6C3, 6C3A, 6C3C, 6D3, 6D3A, 6D3C	60A28 ($\frac{1}{32}$ ")
<input type="checkbox"/> 6B4C, 6C4C, 6D4C, 8B4A, 8B4B, 8B4C, 8C4A, 8C4B, 8C4C, 8D4A, 8D4B, 8D4C	60A88 ($\frac{1}{32}$ ")
<input type="checkbox"/> 10D6	60A101B ($\frac{1}{32}$ ")
<input type="checkbox"/> 4B4A, 4C4A, 4D4A	60A106B ($\frac{1}{32}$ ")
<input type="checkbox"/> 4C5, 4D5, 8C5A, 10C5A, 10D5A	60A107B ($\frac{1}{32}$ ")
<input type="checkbox"/> 12D5	60A109B ($\frac{1}{32}$ ")
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	60A112
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
Seal Filter Element (Select the correct seal filter for your pump)	
<input type="checkbox"/> Seal Filter Element - Current Style for 1L485	1L485A
<input type="checkbox"/> Seal Filter Element – Old Style for 1L371	1L371H
<input type="checkbox"/> Seal Filter Element – Old Style for 1L197	1L89E
Station Key - Spare	11L119AD

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OTHER SPARE PARTS

GENERAL LIST OF OTHER POSSIBLE SPARE PARTS

PART DESCRIPTION	PART #
Alternator (Select the correct alternator for your pump)	
<input type="checkbox"/> Alternator – 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 – Old Style 2-Pump P.S. (replaces 4L187, 12 Pin)	4L187A
<input type="checkbox"/> Socket Base, 12 pin, for Alternator 4L187A	5L161
<input type="checkbox"/> Alternator – for 3 Pump P.S. – wire-in timer	4L357
<input type="checkbox"/> Bubbler Timer, 2 Switches, Wire-In 10 Min. Time (5 on/off)	4L343A
<input type="checkbox"/> Bubbler Timer, 1 Switch, Wire-In 10 Min. Time (5 on/off)	4L365B
Blower Timer, 15 Min. Timer (replaces 4L41A (10 Min.) & 4L219A)	4L342
Blower - Ventilation (Select the correct blower for your pump station)	
<input type="checkbox"/> Squirrel Cage Blower (replaces 7L7) 50/60hz, 110 v Free Air	F28B795
<input type="checkbox"/> Blower – 350 CFM	7L277
<input type="checkbox"/> Blower – 815 CFM	7L297
<input type="checkbox"/> Blower w/Motor (replaces 7L8 – modifications must be made)	7L8C
<input type="checkbox"/> Non-Sparking Blower – 205 CFM	7L138D
(replaces 7L138 – modifications must be made for mounting)	
Bubbler Air Compressor (2 per Duplex P.S., 3 per Triplex P.S.)	
(Select the correct bubbler compressor for your pump)	
<input type="checkbox"/> Air Compressor – New Style (Replaces 9L25)	9L25C
<input type="checkbox"/> Air Compressor – Old Style (Replaces 9L11)	9L25
Humidistat	4L215
Thermostat	4L216
Impeller (Must be identified by pump station serial number)	Call Factory
Lid Switch – Lights & Blower, SPST (Replaces 4L292A & 4L45)	4L196
Lock – Cylinder Only	11L119AA
Off-On Test Selector Switch , Toggle Switch, SPST (Not UL Listed) (For underground pump stations, not including Ejector's.)	4L23
Off-On Test Selector Switch for Ejector's Only (Product 20, 21, 23)	4L13C
Contact Block Off-On Test Selector Switch (for Off-On 4L13C)	4L14A
Paint (Determine which paint your station requires)	
* Order one gallon of Catalyst Part B for each gallon of paint/primer – must be mixed before use.	
<input type="checkbox"/> Dark S&L Green VERSAPOX ®, Part A, Gallon	12L104B *
<input type="checkbox"/> Light Green VERSAPOX ®, Part A, Gallon	12L109B *
<input type="checkbox"/> Aquamarine VERSAPOX ®, Part A, Gallon	12L181B *
<input type="checkbox"/> VERSAPOX ® Catalyst, Part B, Gallon	12L105B
<input type="checkbox"/> Primer (RED), Part A, Gallon	12L138A *
<input type="checkbox"/> Primer Catalyst, Part B, Gallon	12L138B
<input type="checkbox"/> Touch-Up Paint Kit – Aquamarine	H87A424
<input type="checkbox"/> Touch-Up Paint Kit – Light Green	H87A426
<input type="checkbox"/> Touch-Up Paint Kit – Georgian Hemlock	H87A425

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OTHER SPARE PARTS (CONTINUED)

GENERAL LIST OF OTHER POSSIBLE SPARE PARTS (CONTINUED)

PART DESCRIPTION	PART #
Pressure Switch (Replaces 4L200's)	4L407B
Manifold for Pressure Switch	5B51
Snubber – for Bubbler System	1L186A
Sump Pump (<i>Select the correct sump pump for your pump station</i>)	
() Sump Pump – ½ hp, use with float switch 8L43AA	8L43A
() Float Switch for 8L43A Sump Pump	8L43AA
() Sump Pump – High Capacity, ½ hp (Replaces 8L1)	8L47
() Sump Pump – 0.3 hp (Replaces 8L9)	8L53A
Tubing (<i>Select the correct tubing for your pump station</i>)	
() Vacuum Tubing – 3/8"	Natural: 1L142BA Green: 1L142BB Red: 1L142BC
() Vacuum Tubing – ¼"	Red: 1L142AC
() Vacuum Tubing - ½"	Natural: 1L142CA
Valves – Check Valve, Spring Loaded	Call Factory
Valves – Gate Valve	Call Factory
Valves – Plug Valve	Call Factory

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Maintenance

the secret to longevity

Maintenance of equipment is the secret of longevity. We at Smith & Loveless firmly believe that if you give a WWMP5 6 hours of maintenance a year, you will have very few problems, if any.

So, what is included in this maintenance?

- Clean the solenoid twice a year.
- Verify that all vacuum pumps pull 24 inches of Hg.
- Lubricate the motor annually (remember over greasing can cause severe damage).
- Inspect or replace all vacuum lines.
- Inspect and clean all fittings.
- Verify the wet well is clean.
- Inspect the motor adapter for any sign of mechanical seal leakage, replace if necessary. Also, twice a year, remove the vacuum line from the electrode dome/priming dome.
- Note the length of time it takes each pump to prime. Periodically check this against your recorded numbers.
- Install gauges on all pumps.

Smith & Loveless now offers a complete set of glycerin gauges with an internal diaphragm. These quality compact gauges can be sized by Smith & Loveless for every station.

If you put the annual 6 hours of maintenance in your schedule, these stations require very little and you're sure to have trouble-free station operation. Just last week, we had a customer come in for an electrode housing and he said he had not done a thing to the station since 2001. While we do not recommend this, it just goes to show how durable Smith & Loveless pump stations are.

Smith & Loveless Inc.
After Market Division

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