



Malfar Mechanical Inc.

144 Woodstream Boulevard, Woodbridge, Ontario L4L 7Y3
Tel: (905) 850-1242 - Fax: (905) 850-2630 - www.malfar.ca

Submittal

21-03 — FORESTSIDE ESTATES

Subject : Sump Pumps (P-2 to P-4)

To Vince Staffieri
Royal Pine Homes
3550 Langstaff Road
Suite 200
Woodbridge, ON L4L 9G3
Phone No: 416-213-7181
Mobile: 647-287-4136
Fax No: 905-856-6543
vince@royalpinehomes.com

Number : 1
Spec Section No : 22 13 29
Submittal Rev No: 1
Submittal Number: 1
Date Sent : 4/26/2021
Type : Submittal Revision
Method Sent : Email
Reason For Sending : For Approval
Status : Pending

Return To Gaurav Sharma
Malfar Mechanical Inc.
144 Woodstream Blvd.
Woodbridge, ON L4L 7Y3
Phone No: 905-850-1242
Fax No: 905-850-2630
gauravs@malfar.ca

Copy To

Details

none

Notes

Revision as per United Comments.

Please return submitted items by **5/10/2021**.

UNITED ENGINEERING INC.	
PROFESSIONAL CONSULTING ENGINEERS	
THIS SHOP DRAWING IS:	
☒ REVIEWED	
☐ REVIEWED AS MODIFIED	
☐ REVISE AND RESUBMIT	
☐ SUBMIT HYDRO FOR APPROVAL	
The review of these shop drawings is for general design only and shall not relieve the contractor from conforming to the contract drawings and specifications.	
All dimensions and sizes shall be checked	
DATE:	CHECKED BY:
May.13, 2021	MECH. L. Matthews
	ELEC.



Malfar Mechanical Inc.

144 Woodstream Boulevard, Woodbridge, Ontario L4L 7Y3
Tel: (905) 850-1242 - Fax: (905) 850-2630 - www.malfar.ca

Signed By:

Dated: 4/26/2021

Gaurav Sharma
Project Coordinator



LEADER PUMP (1993) LTD.

SALES & SERVICE

115 Woodstream Blvd., Unit 10, Woodbridge, Ontario, L4L 7Y6

Tel: 905-856-0550 Fax : 905-856-1127

E-mail admin@leaderpump.com

April 13th, 2021

PROJECT: Forestside Estates
CONSULTANT: United Engineering Inc.
CONTRACTOR: Malfar Mechanical

P2 – SANITARY DUPLEX PUMPING SYSTEM

- 2 – Barnes 2SEV-2092L submersible pumps, 2hp, 208-volt, 3-phase, 60-cycle, each pump having a capacity of 120 gpm @ 40' T.D.H., c/w 50 cords, 2" discharges.
- 1 – LDP208 Duplex Alternating Control Panel, 208-volt, 3-phase, H.O.A. selector switches, run lights, thermal overload heaters with resets, circuit-breakers, lockable dead-front, in a Nema 3R enclosure.
- 1 – LHW115 High Water Alarm Panel, 115-volt, extra-relay for remote signal to BAS, in a Nema 1 enclosure.
- 4 – LS50 Mechanical Float Switches, 1 for pump "ON", 1 for pump "OFF", 1 for both pumps "ON", and 1 for alarm level.
- 1 – 48" x 48" Galvanized trim bar curb frame, c/w 2pc reinforced checkered steel cover plates.

P3 – STORM DUPLEX PUMPING SYSTEM

- 2 – Barnes 2SEV-2092L submersible pumps, 2hp, 208-volt, 3-phase, 60-cycle, each pump having a capacity of 120 gpm @ 40' T.D.H., c/w 50 cords, 2" discharges.
- 1 – LDP208 Duplex Alternating Control Panel, 208-volt, 3-phase, H.O.A. selector switches, run lights, thermal overload heaters with resets, circuit-breakers, lockable dead-front, in a Nema 3R enclosure.
- 1 – LHW115 High Water Alarm Panel, 115-volt, extra-relay for remote signal to BAS, in a Nema 1 enclosure.
- 4 – LS50 Mechanical Float Switches, 1 for pump "ON", 1 for pump "OFF", 1 for both pumps "ON", and 1 for alarm level.
- 1 – 48" x 48" Galvanized trim bar curb frame, c/w 2pc reinforced checkered steel cover plates.
- 1 – 48" x 48" Galvanized trim bar curb frame, c/w 2pc reinforced checkered steel cover plates.

P4 – ELEVATOR DUPLEX PUMPING SYSTEM #1

- 1 – Barnes STEP-512SS submersible pump, 1/2hp, 115-volt, 1-phase, 60-cycle, having a capacity of 50 gpm @ 40' T.D.H., c/w 50' cord, 2" discharge.
- 1 – LMS115 Combination Magnetic Starter Panel, 115-volt, 1-phase, H.O.A. selector switch, run light, thermal overload heater with reset, circuit-breaker, lockable dead-front, in a Nema 3R enclosure.
- 1 – LHW115 High Water Alarm Panel, 115-volt, extra-relay for remote signal to BAS, in a Nema 1 enclosure.
- 3 – LS50 Mechanical Float Switches, 1 for pump "ON", 1 for pump "OFF", and 1 for alarm level.
- 1 – 48" x 48" Galvanized trim bar curb frame, c/w 2pc reinforced checkered steel cover plates.

P4 – ELEVATOR DUPLEX PUMPING SYSTEM #2

- 1 – Barnes STEP-512SS submersible pump, 1/2hp, 115-volt, 1-phase, 60-cycle, having a capacity of 50 gpm @ 40' T.D.H., c/w 50' cord, 2" discharge.
- 1 – LMS115 Combination Magnetic Starter Panel, 115-volt, 1-phase, H.O.A. selector switch, run light, thermal overload heater with reset, circuit-breaker, lockable dead-front, in a Nema 3R enclosure.
- 1 – LHW115 High Water Alarm Panel, 115-volt, extra-relay for remote signal to BAS, in a Nema 1 enclosure.
- 3 – LS50 Mechanical Float Switches, 1 for pump "ON", 1 for pump "OFF", and 1 for alarm level.
- 1 – 48" x 48" Galvanized trim bar curb frame, c/w 2pc reinforced checkered steel cover plates.

P4 – ELEVATOR DUPLEX PUMPING SYSTEM #3

- 1 – Barnes STEP-512SS submersible pump, 1/2hp, 115-volt, 1-phase, 60-cycle, having a capacity of 50 gpm @ 40' T.D.H., c/w 50' cord, 2" discharge.
- 1 – LMS115 Combination Magnetic Starter Panel, 115-volt, 1-phase, H.O.A. selector switch, run light, thermal overload heater with reset, circuit-breaker, lockable dead-front, in a Nema 3R enclosure.
- 1 – LHW115 High Water Alarm Panel, 115-volt, extra-relay for remote signal to BAS, in a Nema 1 enclosure.
- 3 – LS50 Mechanical Float Switches, 1 for pump "ON", 1 for pump "OFF", and 1 for alarm level.
- 1 – 48" x 48" Galvanized trim bar curb frame, c/w 2pc reinforced checkered steel cover plates.

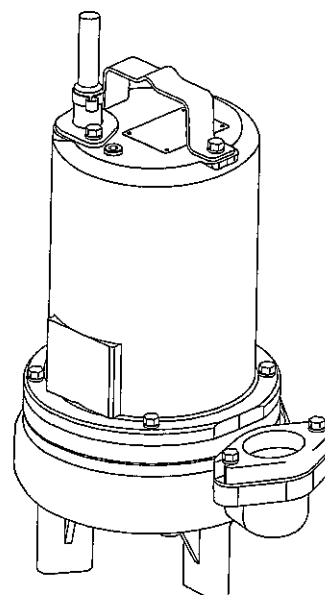
P4 – ELEVATOR DUPLEX PUMPING SYSTEM #4

- 1 – Barnes STEP–512SS submersible pump, 1/2hp, 115-volt, 1-phase, 60-cycle, having a capacity of 50 gpm @ 40' T.D.H., c/w 50' cord, 2" discharge.
- 1 – LMS115 Combination Magnetic Starter Panel, 115-volt, 1-phase, H.O.A. selector switch, run light, thermal overload heater with reset, circuit-breaker, lockable dead-front, in a Nema 3R enclosure.
- 1 – LHW115 High Water Alarm Panel, 115-volt, extra-relay for remote signal to BAS, in a Nema 1 enclosure.
- 3 – LS50 Mechanical Float Switches, 1 for pump "ON", 1 for pump "OFF", and 1 for alarm level.
- 1 – 48" x 48" Galvanized trim bar curb frame, c/w 2pc reinforced checkered steel cover plates.

DISCHARGE	2" NPT, Female, Vertical, Bolt-on Flange
LIQUID TEMPERATURE	104°F (40°C) Continuous
VOLUTE	Cast Iron ASTM A-48, Class 30
MOTOR HOUSING	Cast Iron ASTM A-48, Class 30
SEAL PLATE	Cast Iron ASTM A-48, Class 30
IMPELLER: Design	Vortex, open, with pump out vanes on back side. Dynamically balanced, ISO G6.3
Material	85-5-5-5 Cast Iron
SHAFT	416 Stainless Steel
SQUARE RINGS	Buna-N
HARDWARE	300 Series Stainless Steel
PAINT	Air Dry Enamel
SEAL: Design	Single Mechanical
Material	Carbon/Ceramic/Buna-N
	Hardware -300 Series Stainless
CORD ENTRY	20 ft. (6m) Cord. Quick connect custom molded for sealing and strain relief
SPEED	3450 RPM (Nominal)
UPPER BEARING	Single Row, Ball, Oil lubricated
Load	Radial
LOWER BEARING	Single Row, Ball, Oil lubricated
Load	Radial & Thrust
MOTOR: Design	NEMA L -Single Phase, NEMA B -Three phase Torque Curve, Oil Filled, Squirrel Cage Induction
Insulation	Class B
	Class F on selected models
SINGLE PHASE	Permanent Split Capacitor (PSC)
	Includes Overload Protection in Motor
THREE PHASE	200-240/480 is Tri-Voltage. 600V.
	Requires Overload Protection to be included in control panel
OPTIONAL EQUIPMENT	Seal Material, Impeller Trims, Additional cord, Normally Closed Temperature Sensors with cord for 3 phase pumps (Requires relay in control panel).

RECOMMENDED:

Accessories.....Break Away Fitting (BAF)
Check Valve
Control Panel
Seal Kit PN130181
Service Kit PN.....130208



Series: 2SEV-L
1.5 & 2.0HP, 3450RPM, 60Hz



DESCRIPTION:

SUBMERSIBLE NON-CLOG SEWAGE PUMP
DESIGNED FOR TYPICAL RAW SEWAGE
APPLICATIONS

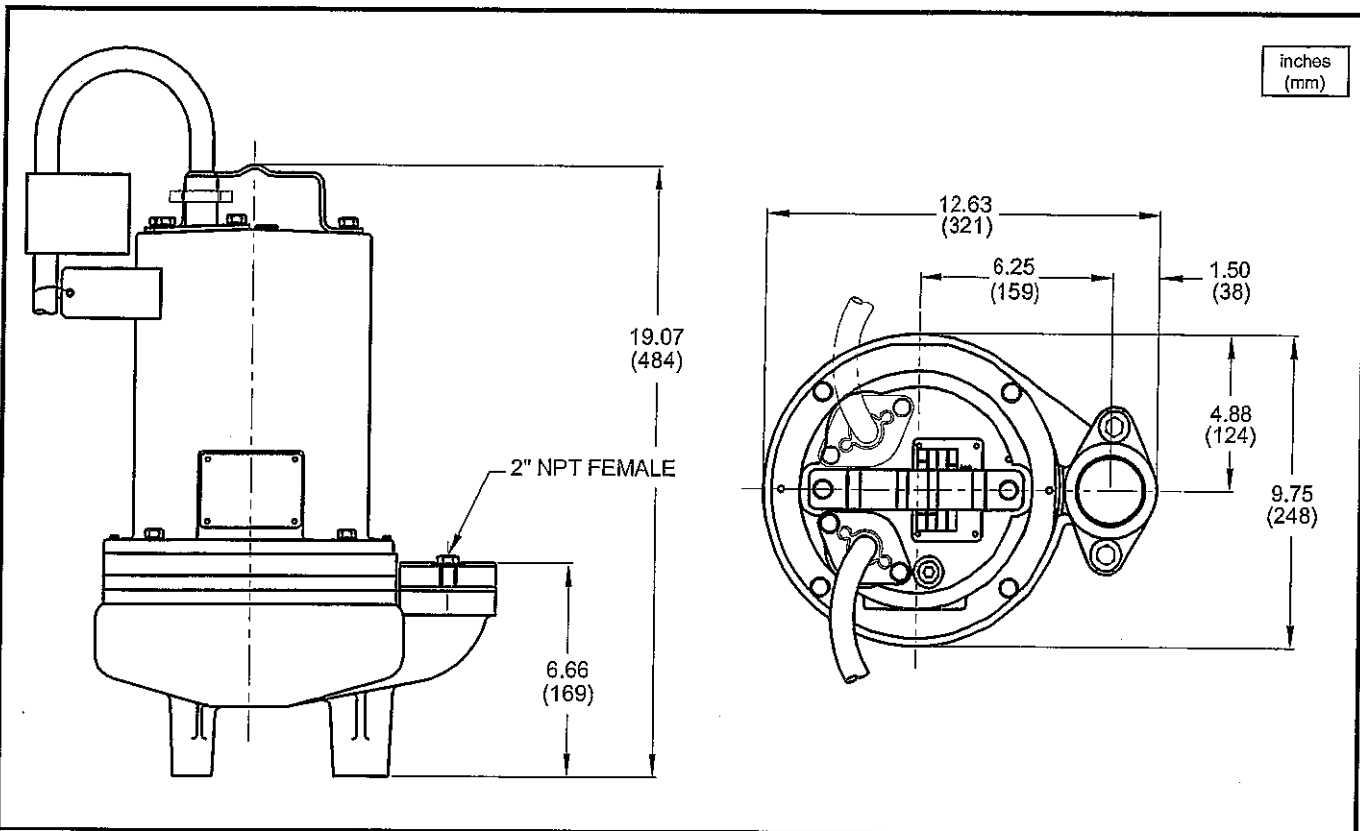
Series 2SEV-L

2" Spherical Solids Handling
Vortex, Single Seal

BARNES®

www.cranepumps.com

2" Discharge



MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	INSUL. CLASS	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CORD TYPE	CORD O.D inch (mm)
2SEV1522L	104187	1.5	240/1	60	3450	A	F	13.5	31.5	12/3	SOW	0.610 (15.5)
2SEV1592L	104188	1.5	200/240/3	60	3450	C	F	10.8/9.8	27.0	14/4	SOW	0.600 (15.2)
2SEV1542L	104189	1.5	480/3	60	3450	F	F	4.9	13.5	14/4	SOW	0.600 (15.2)
2SEV1552L	105774	1.5	600/3	60	3450	F	B	3.9	11.0	14/4	SOW	0.600 (15.2)
2SEV2022L	104190	2.0	240/1	60	3450	C	F	16.0	42.0	12/3	SOW	0.610 (15.5)
2SEV2092L	104191	2.0	200/240/3	60	3450	J	F	13.2/12.0	30.0	14/4	SOW	0.600 (15.2)
2SEV2042L	104192	2.0	480/3	60	3450	J	F	6.0	13.0	14/4	SOW	0.600 (15.2)
2SEV2052L	105775	2.0	600/3	60	3450	J	B	4.8	12.0	14/4	SOW	0.600 (15.2)

OPTIONAL - Temperature sensor cord for 3 phase models is 14/3 SOW, 0.530 (13.5mm) O.D.

IMPORTANT !

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

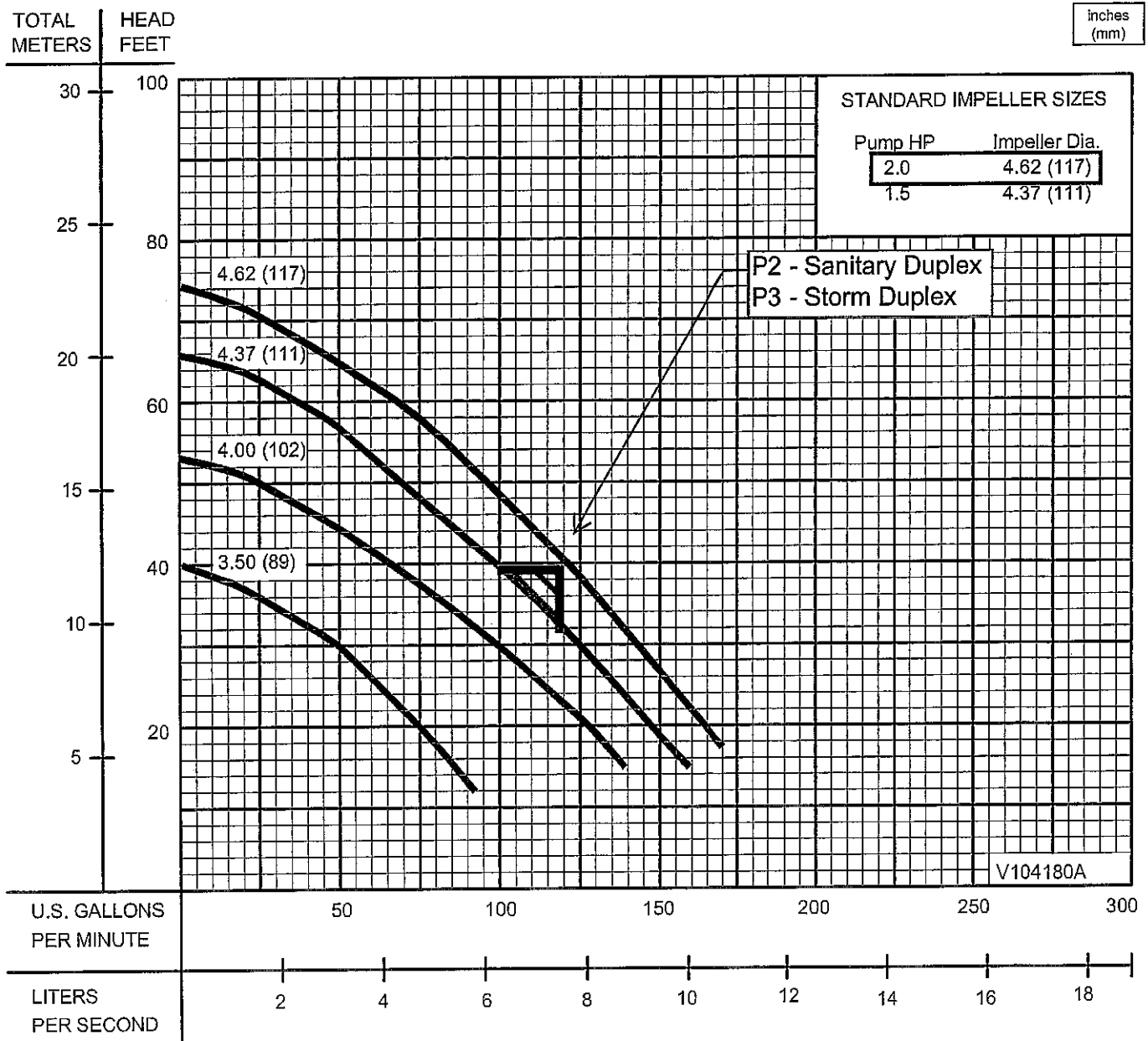
SECTION 1B
PAGE 32
DATE 11/15

CRANE
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A Crane Co. Company

PUMPS & SYSTEMS

USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598



Testing is performed with water, specific gravity 1.0 @ 68° F @ (20°C), other fluids may vary performance

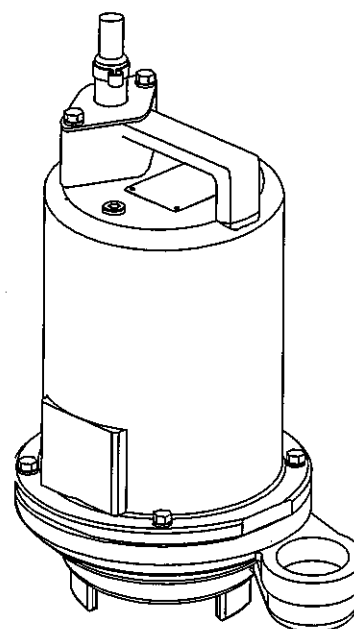
Submersible Effluent Pumps

Specifications:

DISCHARGE	2" NPT, Female, Vertical
LIQUID TEMPERATURE	104°F (40°C) Continuous
VOLUTE	Cast Iron ASTM A-48, Class 30
MOTOR HOUSING	Cast Iron ASTM A-48, Class 30
SEAL PLATE	Cast Iron ASTM A-48, Class 30
IMPELLER: <i>Design</i>	Single Vane, Enclosed
<i>Material</i>	Polypropylene with stainless steel insert
SHAFT	416 Stainless Steel
SQUARE RINGS	Buna-N
HARDWARE	300 Series Stainless Steel
PAINT	Air Dry Enamel
SEAL: <i>Design</i>	Single Mechanical
<i>Material</i>	Carbon/Ceramic/Buna-N
	Hardware -300 Series Stainless
CORD ENTRY	20 ft. (6.1m) Cord with plug on 120 volt & 240 volt, 1 phase. Quick connect custom molded for sealing and strain relief
UPPER BEARING	Single Row, Ball, Oil lubricated
LOWER BEARING	Single Row, Ball, Oil lubricated
MOTOR: <i>Design</i>	NEMA L -Single Phase, NEMA B -Three Phase Torque Curve, Oil Filled, Squirrel Cage Induction
<i>Insulation</i>	Class B
SINGLE PHASE	Permanent Split Capacitor (PSC) Includes Overload Protection in Motor
THREE PHASE	200-240/480 is Tri-Voltage. 600V. Requires Overload Protection to be included in control panel
LEVEL CONTROL	"A" - Wide Angle, PVC, Mechanical, Pipe Mounted, 20 ft. (6.1m) cord with Piggy-Back Plug
OPTIONAL EQUIPMENT	Seal Material, Impeller Trims, Additional cord, Normally Closed Temperature Sensors with cord for 3 phase pumps (Requires relay in control panel).

RECOMMENDED:

Accessories	Break Away Fitting (BAF)
	Check Valve
	Control Panel
Seal Kit PN	130176
Service Kit PN	130172



Series: STEP-SS .5 & 1HP, 3450RPM, 60Hz

Sample Specifications: Section 3 Page 2.

DESCRIPTION:

PUMP IS DESIGNED FOR HANDLING SEWAGE EFFLUENT IN TYPICAL SEPTIC TANK/EFFLUENT APPLICATIONS.



WARNING:
CANCER AND REPRODUCTIVE HARM -
WWW.P65WARNINGS.CA.GOV



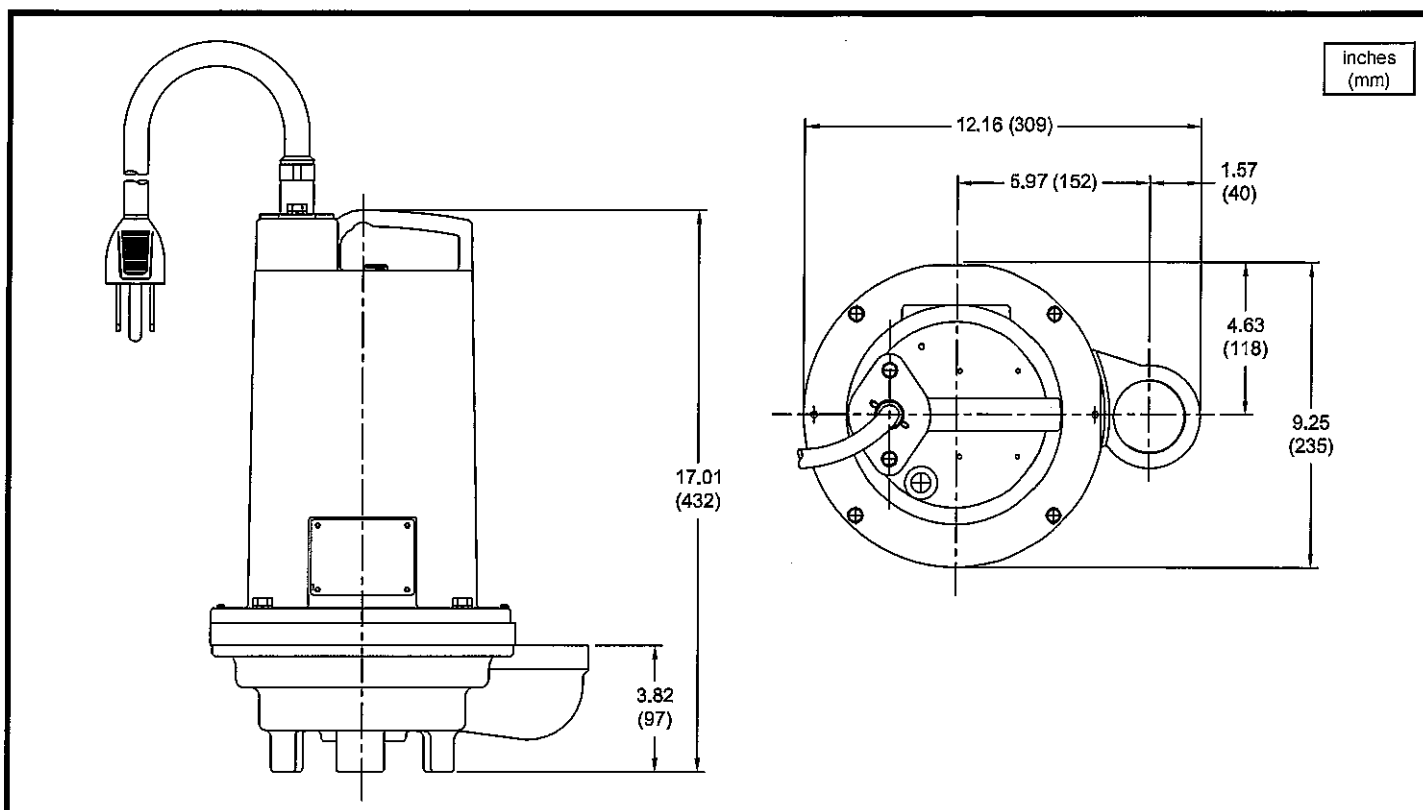
Series STEP-SS

3/4" Spherical Solids Handling
Single Seal

BARNES®

www.cranepumps.com

Submersible Effluent Pumps



MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CORD TYPE	CORD O.D inch (mm)
STEP512SS	105045	0.5	120/1	60	3450	G	11.9	24.6	14/3	SJTOW	0.375 (9.5)
STEP512SSA	105045A	0.5	120/1	60	3450	G	11.9	24.6	14/3	SJTOW	0.375 (9.5)
STEP522SS	105046	0.5	240/1	60	3450	E	5.1	10.2	14/3	SOW	0.530 (13.5)
STEP592SS	105047	0.5	200/240/3	60	3450	P/R	4.5/4.5	19.9/18.4	14/4	SOW	0.570 (14.5)
STEP542SS	105048	0.5	480/3	60	3450	R	2.2	9.1	14/4	SOW	0.570 (14.5)
STEP552SS	105049	0.5	600/3	60	3450	T	1.8	8.7	14/4	SOW	0.570 (14.5)
STEP1022SS	105054	1.0	240/1	60	3450	F	8.3	21.8	14/3	SOW	0.530 (13.5)
STEP1092SS	105055	1.0	200/240/3	60	3450	H/J	5.9/5.6	19.9/18.4	14/4	SOW	0.570 (14.5)
STEP1042SS	105056	1.0	480/3	60	3450	J	2.8	9.1	14/4	SOW	0.570 (14.5)
STEP1052SS	105057	1.0	600/3	60	3450	L	2.2	8.7	14/4	SOW	0.570 (14.5)

OPTIONAL - Temperature sensor cord for 3 phase models is 14/3 SOW, .530 (13.5mm) O.D.

IMPORTANT !

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SECTION 3A
PAGE 2
DATE 8/16

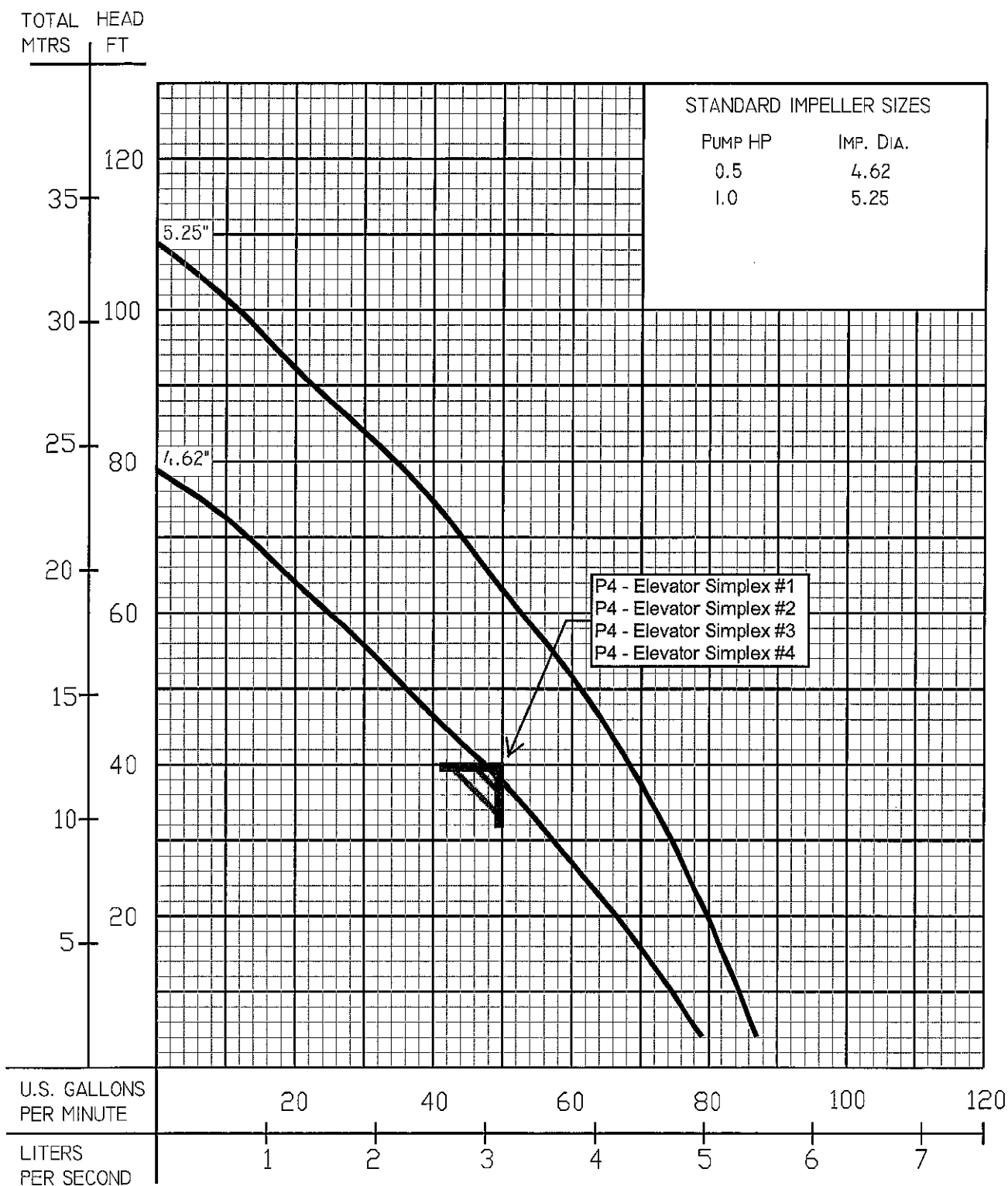
CRANE
A Crane Co. Company

PUMPS & SYSTEMS

USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598

Submersible Effluent Pumps

inches
(mm)



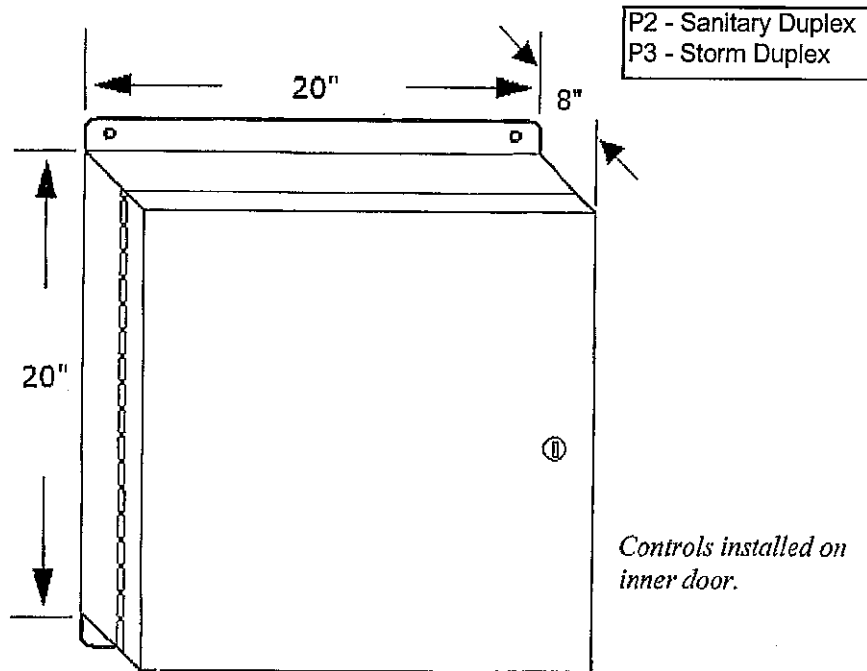
Testing is performed with water, specific gravity 1.0 @ 68° F @ (20°C), other fluids may vary performance



LEADER PUMP (1993) LTD.

115 Woodstream Blvd, Unit 10, Woodbridge, ON, L4L 7Y6, Tel: 905-856-0550 Fax: 905-856-1127
E-mail: admin@leaderpump.com Web: www.leaderpump.com

DUPLEX PUMP CONTROL PANELS LDP Series, 208 volt, 3 Phase



- Designed for pump alteration and to provide for both pumps to run on emergency high inflow conditions.

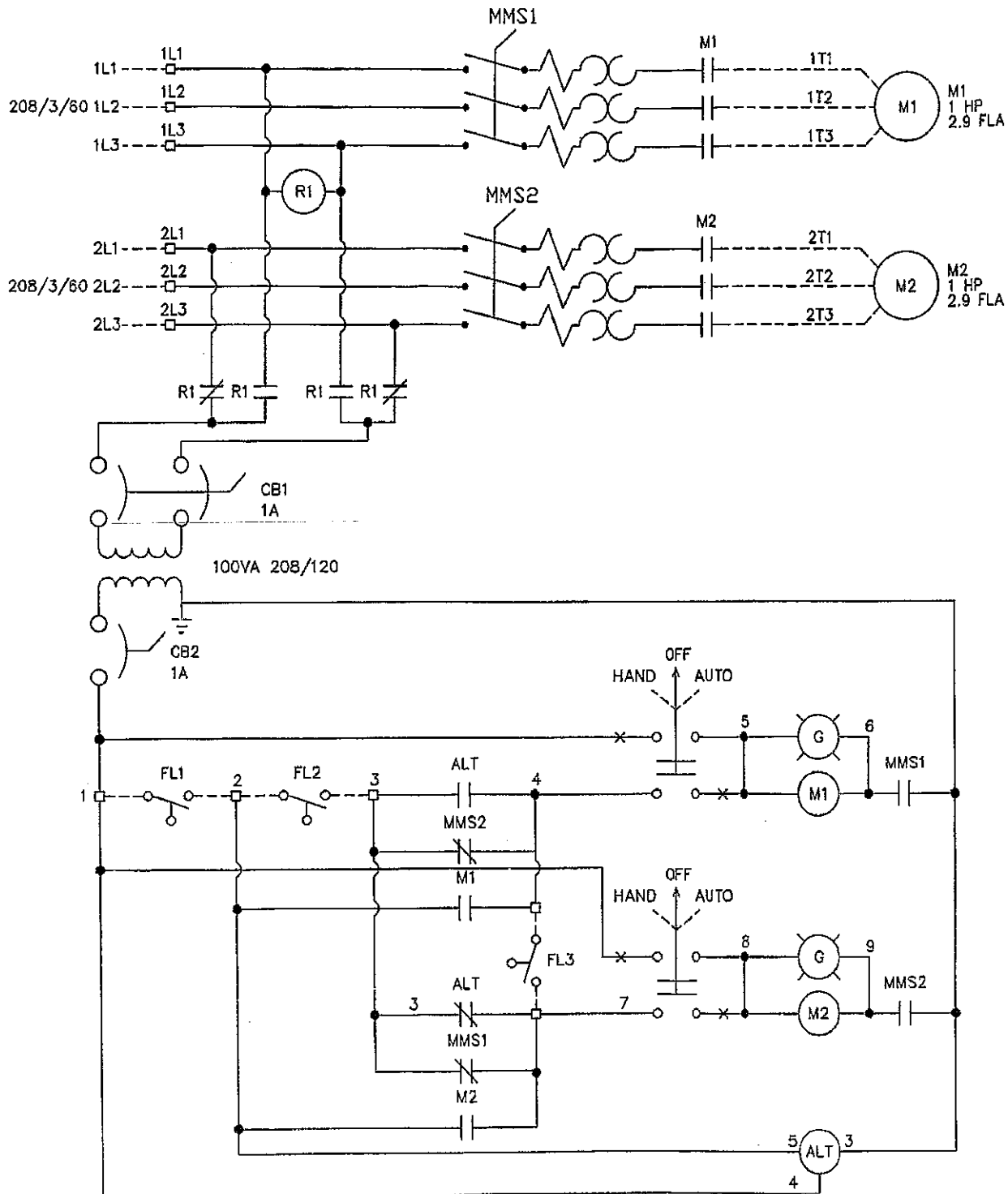
Features Include

- Circuit Breakers
- Across the line magnetic starters
- Ambient compensated overload relays
- H.O.A. Selector switches
- Pump "ON" Run lights
- Control circuit transformer
- Numbered terminal strip
- EEMAC 3R/4 enclosure
- Dead front lockable

NOTE:

- Float switches required to operate pumps select : 3 - LS20 Mechanical float switches

ITEM NO.	QTY.	DESCRIPTION	REMARKS
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NOTE: All starters are shipped without fuses.
Fuse sizes are a guide only. Fuse size should
be determined by applicable electrical codes.

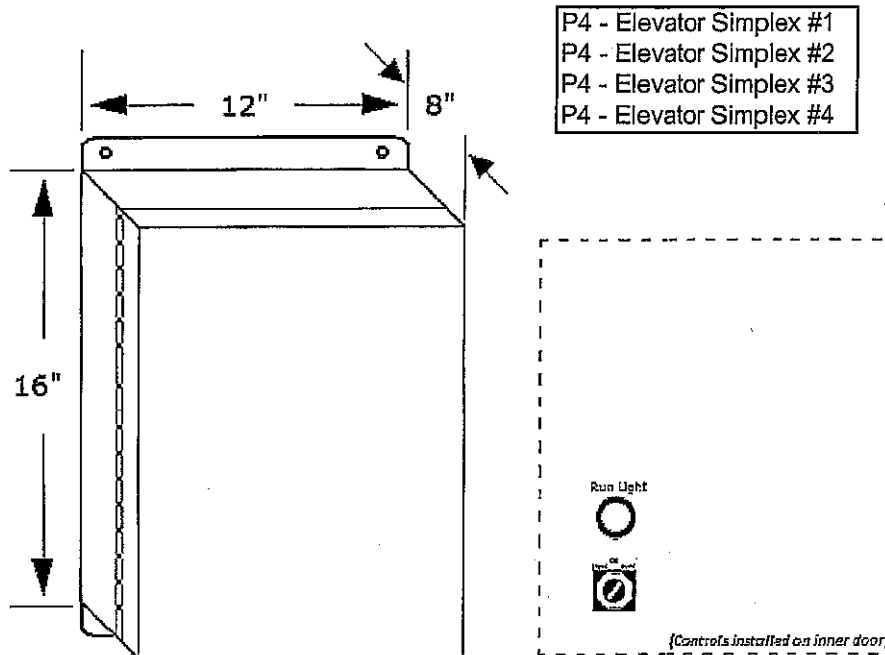
DATE	REV	DESCRIPTION	BY
BILL OF MATERIAL			
PROJECT NO.: XXX		EE CONTROLS LTD. 17 STEWART COURT, ORANGEVILLE, ONTARIO L9W 3Z9 TEL: (519) 812-2415 FAX: (519) 812-0514	
THIS DRAWING AND DESIGN ARE THE PROPERTY OF EE CONTROLS LTD. AND ARE NOT TO BE COPIED IN WHOLE OR IN PART OR USED FOR ANY PURPOSE WHATSOEVER WITHOUT PRIOR APPROVAL.		REVISION: 0 DATE: 0	TITLE: MOTOR STARTER
PROJECT DESIGNER: GJ		SCALE: N.T.S.	DWG. NO.: XXX
DATE: 1/05/2017		DRAWN BY: MH	SHEET 2 of 2



LEADER PUMP (1993) LTD.

115 Woodstream Blvd, Unit 10, Woodbridge, ON, L4L 7Y6, Tel: 905-856-0550 Fax: 905-856-1127
E-mail: admin@leaderpump.com Web: www.leaderpump.com

MAGNETIC STARTERS LMS Series, 115 volt, 1 Phase



- Designed to control individual pumps and provide for specific pump out levels when used with float switches.

Standard Features Include

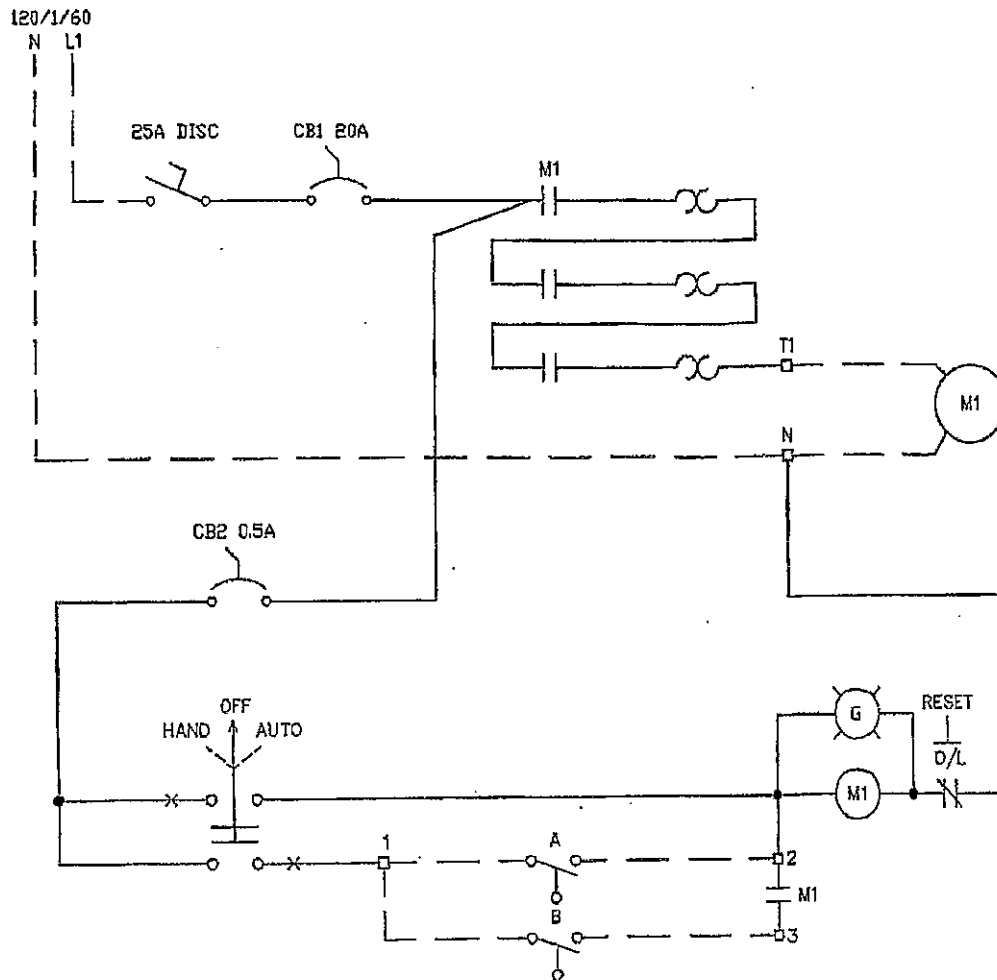
- H.O.A. Selector switch
- EEMAC 1 enclosure
- Reset Button
- Ambient compensated overload relays
- Heavy Duty Magnetic Contactor
- Circuit Breaker
- "ON" Pilot light
- Dead Front Lockable

Optional

- "OFF" Failure light
- EEMAC 3R enclosure
- EEMAC 4 enclosure
- Over-Temperature Relay & Lights
- Moisture Relays & Lights
- Fusible disconnect
- Alarm buzzer c/w extra relay

NOTE:

- For SIMPLEX arrangement select : 2 - LS20 Mechanical Float switches.



NOTE: All starters are shipped without fuses.
Fuse sizes are a guide only. Fuse size should
be determined by applicable electrical codes.

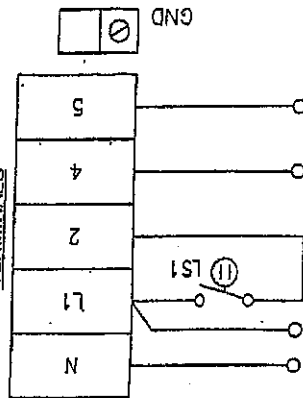
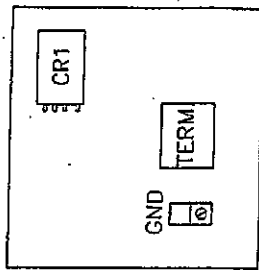
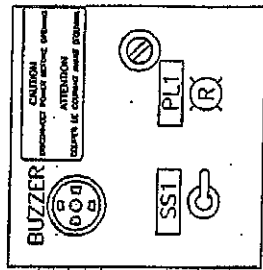
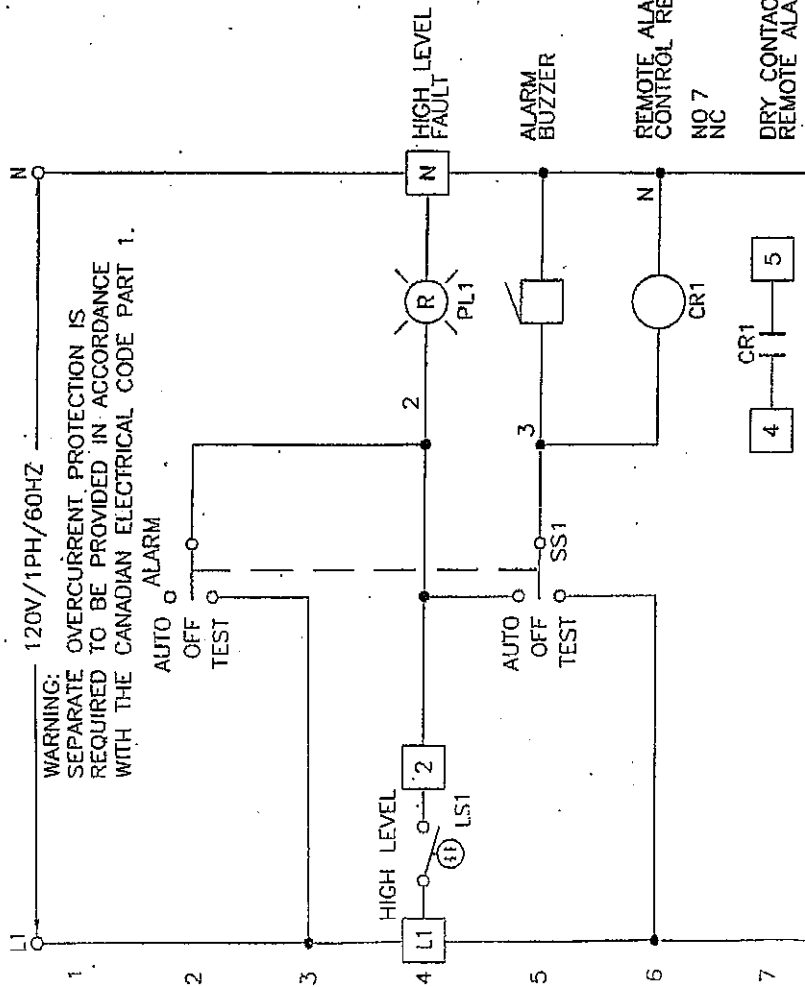
EE Controls

TEL: (519) 941-6845
FAX: (519) 940-0514
WWW.BECONTROLS.CA
INFO@EECONTROLS.ON.CA

17 & 21 STEWART COURT, ORANGEVILLE, ON L9W 3Z9

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DESIGN ARE THE
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CONTROLS AND ARE NOT
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IN PART OR USED FOR
ANY PURPOSE
WITHOUT PRIOR APPROVAL

DESIGNED BY: G.J.	PROJECT: 1606905
DRAWN BY: MH	TITLE: MOTOR CONTROL
DATE: 2/20/2016	DWG. NO.: 1606905
SCALE: N.T.S.	SHEET 1 OF 1



SUPPLY
120 V
1PH 60HZ

HIGH LEVEL

REMOTE ALARM

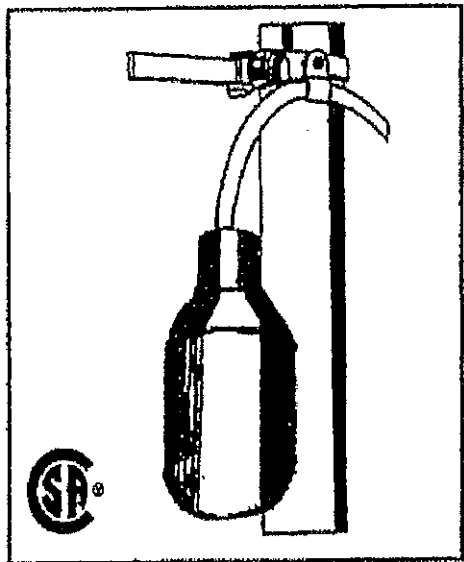
CRANE		DESIGNED BY	REF	SCALE	1/4" = 1"	TITLE
PUMPS & SYSTEMS CANADA		B. SOUKSANH				HIGH WATER ALARM
Division of Crane Canada Co.		B. SOUKSANH				MODEL NO. 710259
83 WEST DRIVE • BRAMPTON • ONTARIO L6T 2K6		DATE	NOVEMBER 16, 2015	SHT NO.	1 OF 1	DWG NO. CRA226-00913
						REV 0



LEADER PUMP (1993) LTD.

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E-mail: admin@leaderpump.com Web: www.leaderpump.com

MECHANICAL FLOAT SWITCH - Series LS

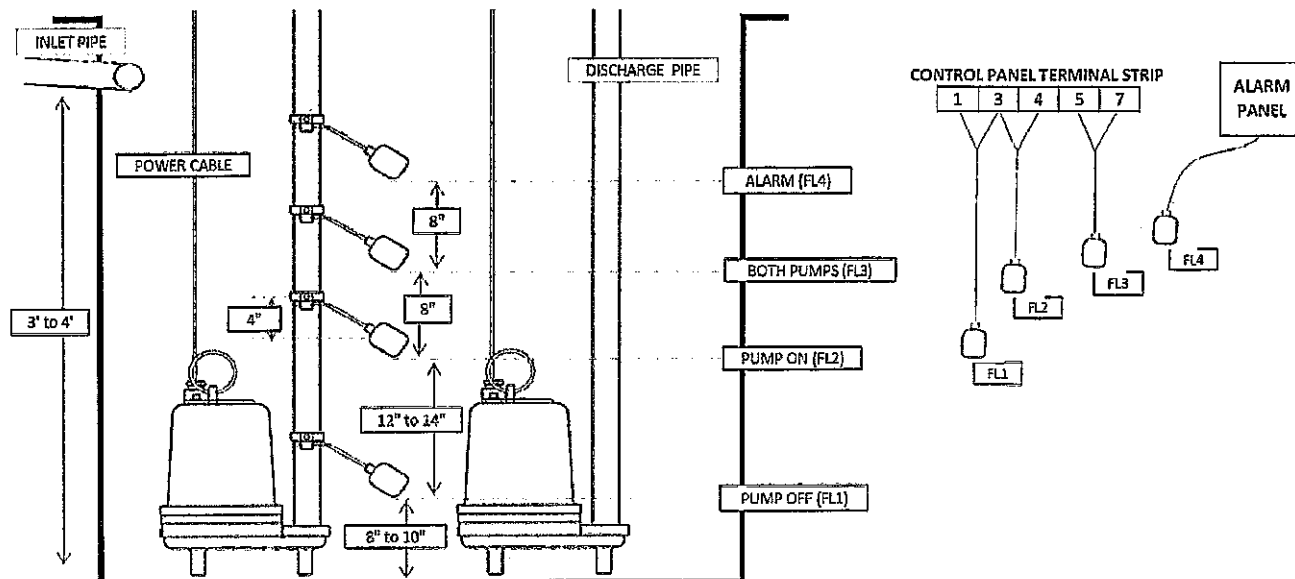


The mechanical float switch can be installed in either a pipe mounted or suspended configuration. They are pilot duty devices which control the function of motor load devices, such as contactors, motor starters, and power relays, to automatically cycle a pump(s). They can also be used for alarm signalling devices.

- **SWITCH:** mechanical, differential angle between on/off is 10°
- **ELECTRICAL RATING:** 10A - 115 volt AC or 230V AC
- **CORD:** neoprene, Type SJOW
- **FLOAT:** polystyrene
- **FLOAT DIMENSIONS:** 67mm Dia. - 117mm long
- **TEMPERATURE:** 140°F (60°C)
- **WEIGHT:** External (optional)
- **INSTALLATION:** pipe mounted or suspended

*Available cord lengths : _ 20' _ 30' ☒ 50' _ 80' _ 100'

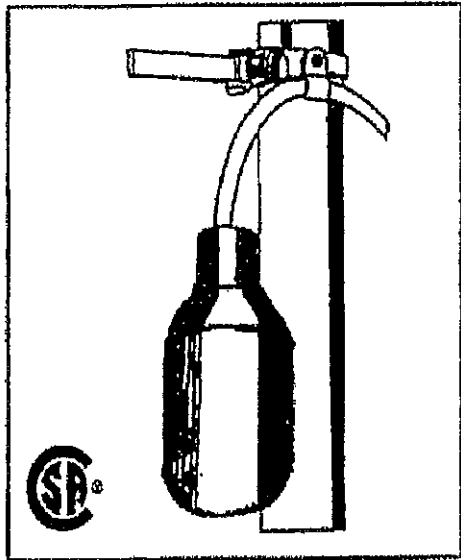
DUPLEX INSTALLATION





LEADER PUMP (1993) LTD.

115 Woodstream Blvd, Unit 10, Woodbridge, ON, L4L 7Y6, Tel: 905-856-0550 Fax: 905-856-1127
E-mail: admin@leaderpump.com Web: www.leaderpump.com



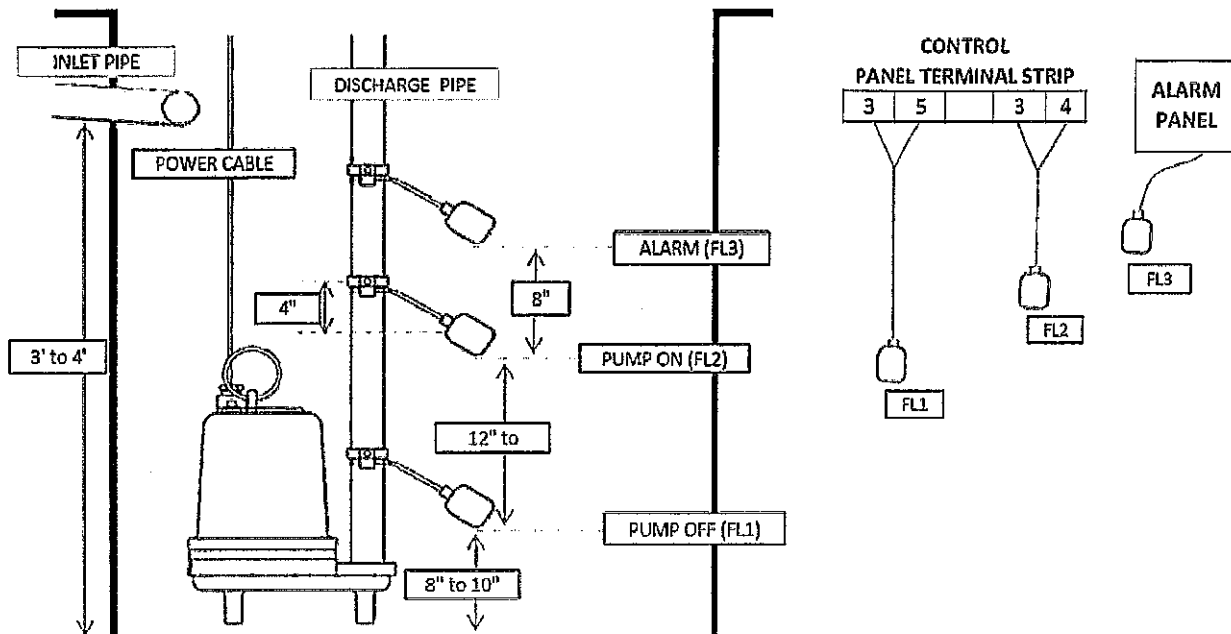
MECHANICAL FLOAT SWITCH - Series LS

The mechanical float switch can be installed in either a pipe mounted or suspended configuration. They are pilot duty devices which control the function of motor load devices, such as contactors, motor starters, and power relays, to automatically cycle a pump(s). They can also be used for alarm signalling devices.

- **SWITCH:** mechanical, differential angle between on/off is 10°
- **ELECTRICAL RATING:** 10A – 115 volt AC or 230V AC
- **CORD:** neoprene, Type SJOW
- **FLOAT:** polystyrene
- **FLOAT DIMENSIONS:** 67mm Dia. – 117mm long
- **TEMPERATURE:** 140°F (60°C)
- **WEIGHT:** External (optional)
- **INSTALLATION:** pipe mounted or suspended

*Available cord lengths : _ 20' _ 30' ☒ 50' _ 80' _ 100'

SIMPLEX INSTALLATION



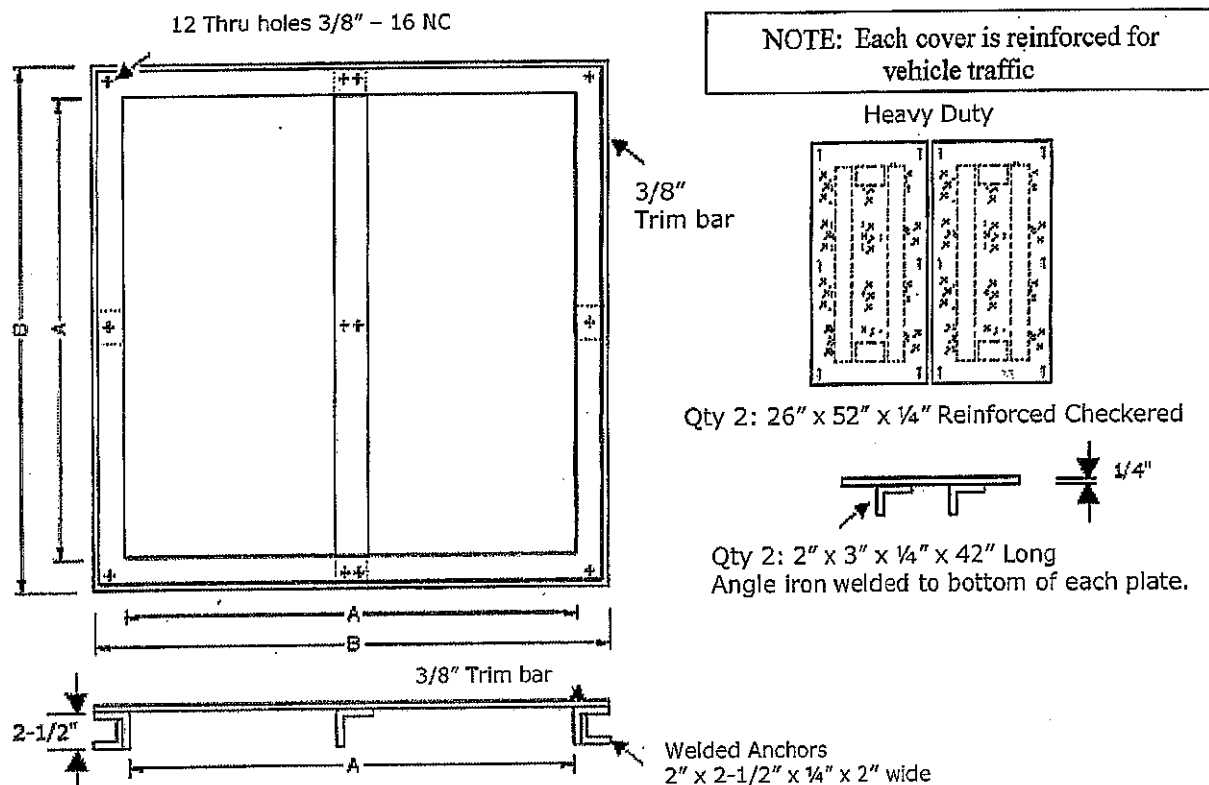


LEADER PUMP (1993) LTD.

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TRIM BAR CURB FRAME & COVER Series : 48

- 48" x 48" Steel trim bar curb frame c/w 2-piece reinforced checkered cover plate.



Standard Features

- Mild steel checkered cover plate (non-skid)
- Cover plate thickness: 1/4"

Optional

- Gasketed for sanitary application
- Fittings for through cover plate.
- Prime painted
- Galvanized

NOTE: Dimensions shown may vary +/- 1/8" or +/- 3 mm

- A - Frame Inside Dimensions		- B - Frame Outside Dimensions		Steel Angle Frame		Number of Screws	Type & Size of Screws (Flat Head)
inches	mm	inches	mm	inches	mm		
48	1200	53	1325	2.5 x 2.5 x 0.25	63 x 63 x 6	12	3/8 x 16 NC x 3/4" long

SD No.4848fpc-ri2-0817