



LUBRIMAC
centralized lubrication systems

LUBRIMAC
SL - 101

TR: YAĞ DOLUMLU İÇLEMİ GİREBİLECEKLERİNE
POMPAHIN HAVA YAPMADAN VE YAĞI KONTROLÜNE
YÖN ÖNEMLİDİR. KURULUŞ DAKİTİM BLOKUNUN
OLABİLİR. TİZLİ DİKTİMLERDE GİREBİLECEKLERİNE
MAX. NİGİ 2 GİREBİLECEKLERİNE KULLANIN.

EN: REFILLING PROCESS SHOULD BE DONE IN ORDER TO
THIS IS VITAL FOR PREVENTING AIR ACCUMULATION IN THE
AND INFLOW OF IMPURITIES AND DIRT TO THE SYSTEM
WHICH COULD CONTAMINATE THE LUBRICANT AND CAUSE
BLOCKAGE IN DISTRIBUTOR BLOCKS IF USED IN HIGH DUST
HIGH DUST ENVIRONMENTS. APPLY GRADE OIL
NIGİ 2 GRADE OIL.

MADE IN TURKEY
WWW.LUBRIMAC.COM

MINIMUM LEVEL



**CENTRALIZED
LUBRICATION SYSTEMS**

SL SERIES DC PUMPS

LUBRIMAC



PROG.

START

NEWLINE

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XI. LUBRICATION SYSTEM ELEMENTS

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iii. Control Card settings

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ii. Electric Connection

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It's our job to make your time longer without fault.!

I. Lubrimatic Electric Greases pumps, SLS-101 Series

Lubrimac SL-101 series electrical Grease pumps are 1224 DC Volts supply. With high impact resistance and strengthened structure, SLS101 series of pumps have been designed able to overcome the hardest conditions as building, mining and industry.

By using the centralized lubrication systems which are able to control from single point, you supply the regular and controlled lubrications of your beddings as well as you take precautions for unexpected stops.

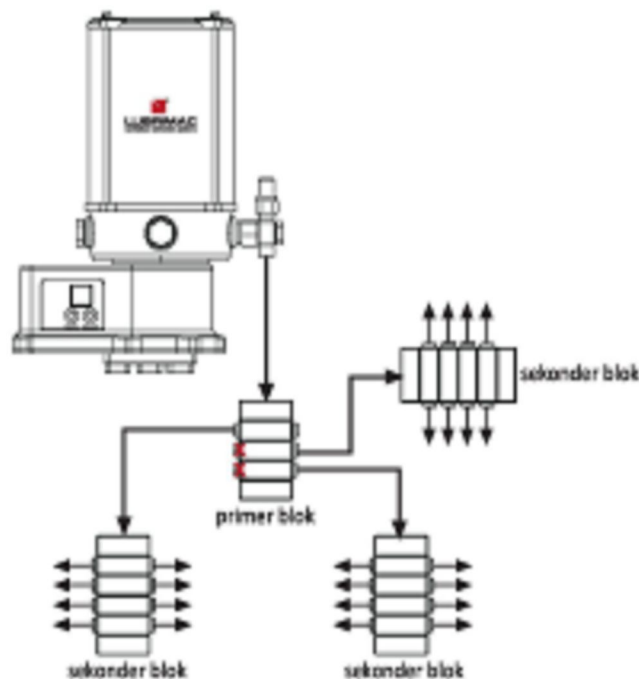
II. Oil Type and Use

Lubrimac SL-101 series pumps are convenient to work upto NLGI 2 number of grease thickness. It might be dangerous to use greases thicker than NLGI 2 number or has sticky additions (rubber grease etc.) because of low viscosity, and might cause irregular pumping.

Refill should be made from the Grease nipple on the pump. This important for pump not to pump air. There's an air pipe on the reservoir cover. Maximum grease fill level made be in the way not to bung the breathing hole on the reservoir upper cover. In the situation of breathing way is filled with oil, grease which is decreasing in the reservoir might cause vacuum, that vacuum might hinder the regular pumping of the pump.

III. Lubrication Systems Elements

There are 3 main output of SL-101 series, as standart it's sold out with 1 pumping unit. 2 or 3 output may be acquired by addition of pumping units and it's used with distribution blocked when bedding amount is more than 3. Lubrication of dozens of points can be supplied by using primer and secondary blocks.



When alarm system is wished in the lubrication system, sensor connectable distribution blocks with indicator pins must be preferred. Minimum hardware level of the pumps which will be used must be SL101.EC/AL or higher.

IV. SL101 Series Pump Types

SL-101 series of pumps are offered in 4 different option according to their properties. Reservoir volume as standart is 2 lt and 4,5 lt. As optional also 9 lt is offered to the use. Pumping units are set to max. 200 bars. It's a pump with pistons which feeds 2,4cc grease per minute.

SL101.D models: This model is direct-feed, run and idle times of the pump are realized by a control card, time roller or PLC.



12/24
DC

Max
NLGI 2

Max
200

Manometer
Connection

SL101.EC models: This model is with electronical card, run and idle times are set through the pump. Runtime may be set between 1-99 minutes, idle time between 0-24 hours and 0-59 minutes.



12/24
DC

Max
NLGI 2

Max 200
Bars

Manometer
Connection

Digital
Control

SL101.EC/AL models: In addition to the functions of the SL101.EC model; via the inductive sensor located in the distribution block, it controls the grease distribution to the beds and it gives alarm when there's no oil in the reservoir or distribution block is blocked. During alarm, digital indicator shows "AL", audible warning gets activated. Maximum 1 indicator can be connected. There's an alarm output. This way, you can transfer alarm information anywhere you wish.



12/24 DC	Max NLGI 2	Max 200 Bars	Manometer Connection	Digital Control	Alarm Output	Alarm)))	1 Censor
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SL101.EC/AL3 models: In addition to the functions of SL101.EC/AL model; This model is the model that 3 different sensors can be controlled. In the situation of there's no oil in the reservoir, it controls the oil flow in distribution blocks which sensor connection is done, it gives an alarm in case of failure. During alarm, location of related sensor is shown in the indicator as "A1", "A2", or "A3", audible warning gets activated. There's an alarm output available. This way, you can take alarm information anywhere you wish.



12/24 DC	Max NLGI 2	Max 200 Bars	Manometer Connection	Digital Control	Alarm Output	Alarm)))	3 Censor
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SL101.D Series

This model is the model direct feed is made, run and idle times of the pump may be realized by an external control card, time roller or PLC.

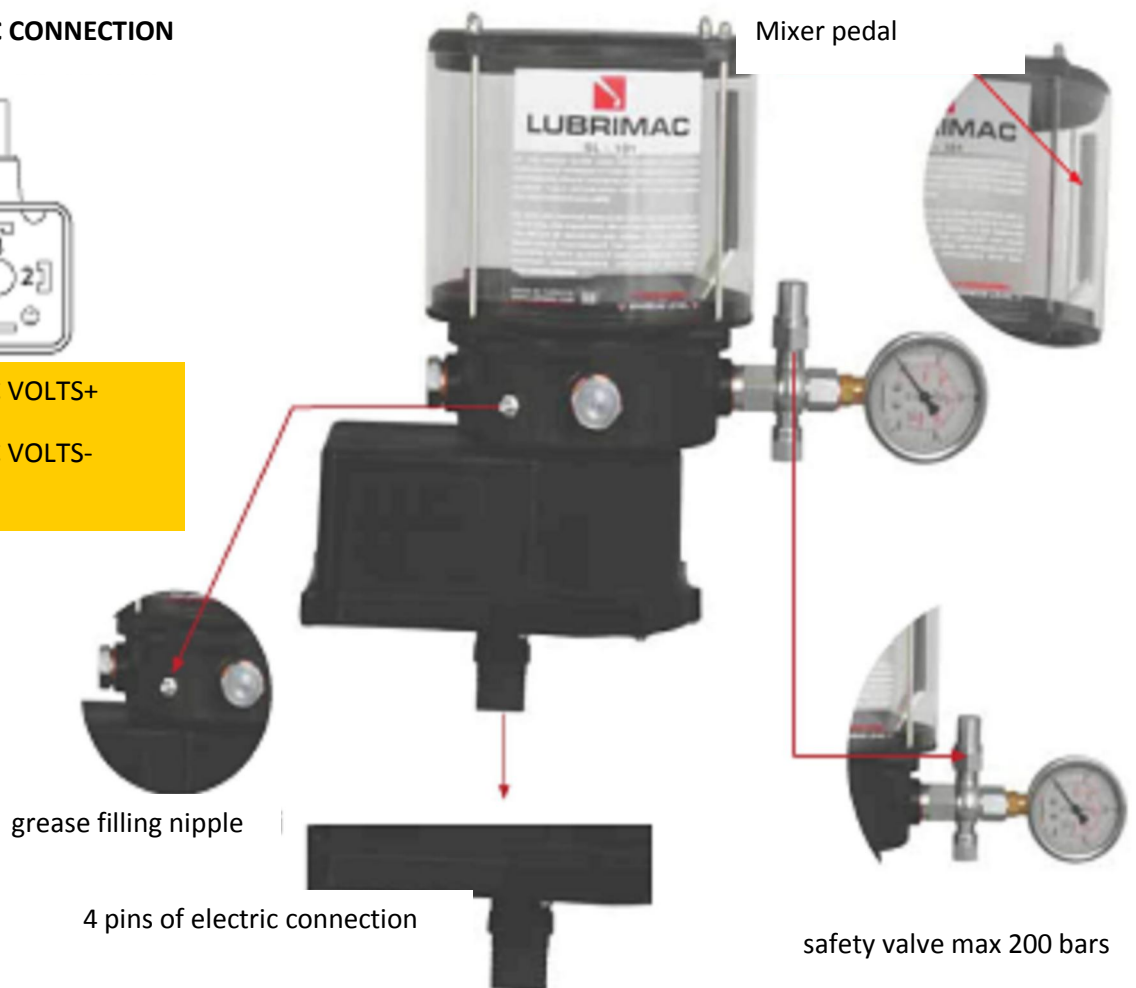


- 12/24 DC Volt
- 200 bar maximum operation pressure
- 2,4 cc/min feed flow rate
- NLGI2 grease max.
- Operation temperature between -30 C and +40 C
- Manometer connection

ELECTRIC CONNECTION



PIN1: 12/24 DC VOLTS+
PIN2: 12/24 DC VOLTS-



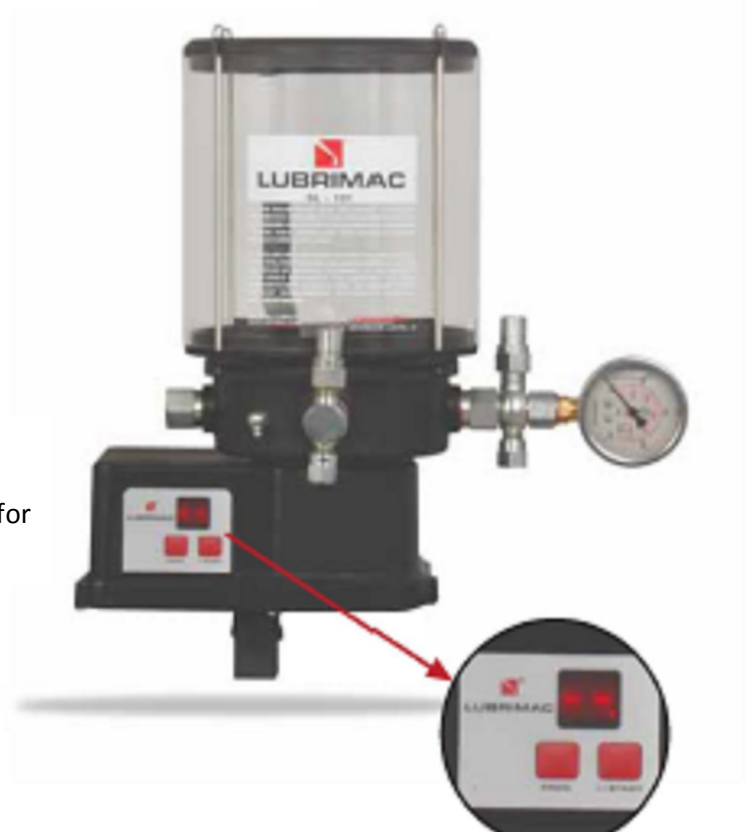
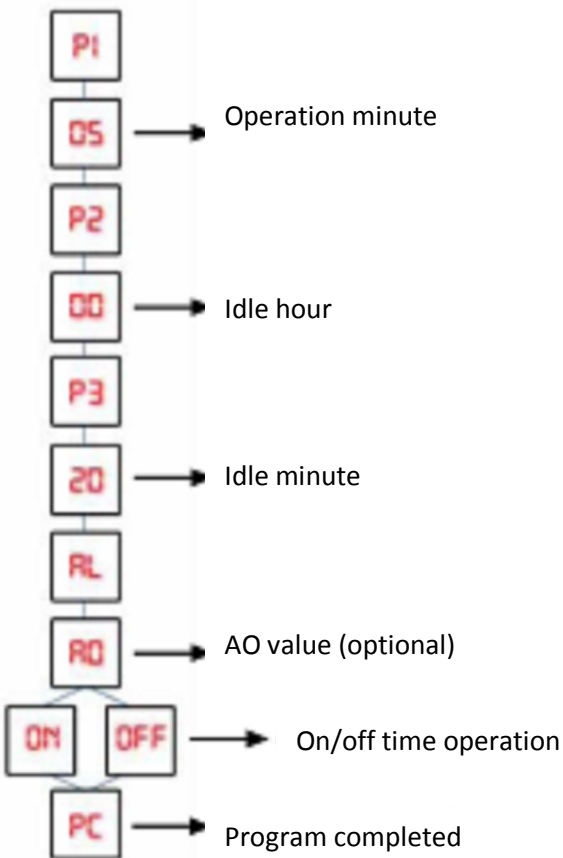
SL101.EC Series:

This is an electric control card model, operation and idle times of the pump may be programmed within the key panel upon the pump. Maximum operation can be set as 1-99 minutes, idle time 0-24 hours and 0-59 minutes.

- 12/24 DC Volt
- 200 bar maximum operation pressure
- 2,4 cc/min feed flow rate
- NLGI2 grease max.
- Operation temperature between -30 C and +40 C
- Manometer connection
- Digital control card

CONTROL CARD SETTINGS

To enter programming, hold down the “Prog.” Button for 3 seconds. Values are set with “+/START” button.



integrated digital control card.

ELECTRICAL CONNECTION



- PIN1 : 12/24 DC Volt +ve
- PIN2 : 12/24 DC Volt -ve

SL101.EC/AL3 Series:

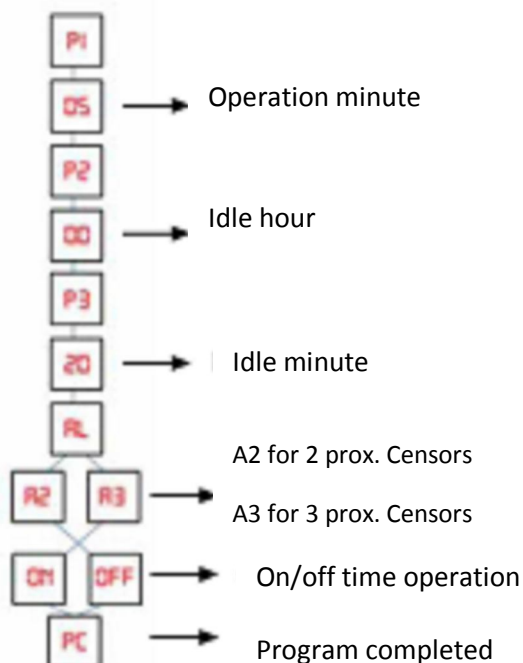
In addition to the functions of SL101.AL model; This model has 3 different sensors can be controlled in total. In the situation of there's no oil in the reservoir, it controls the oil flow in distribution blocks which sensor connection is done, it gives an alarm in case of failure. It facilitates observing the real-time oil distribution. In alarm situation, location of the related sensor is shown in the indicator as "A1", "A2", or "A3", audible warning gets activated. There's an alarm output available.

- Feeding: 12/24 DC volts
- Max operation pressure: 200 bars
- Flow rate: 2,4cc/min.
- Operation with grease with number NLGI2
- Operation temperature between -30 and +40
- Digital control card
- Alarm output
- Buzzer
- Maximum 3 blocks control

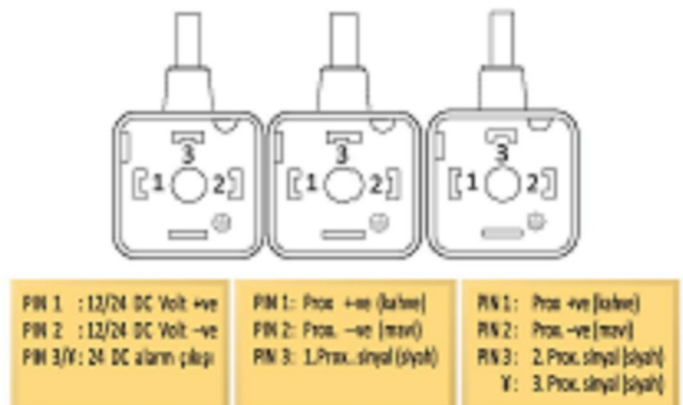


CONTROL CARD SETTINGS

To enter programming, hold down the "Prog." Button for 3 seconds. Values are set with "+/START" button.



ELECTRICAL CONNECTION



*When PL value is entered, pump will work in accordance with the entered cycles value.

Operation time entered in P1 will be ignored.

V. CONTROL CARD DEFINITIONS

To enter programming, hold down the “Prog.” Button for 3 seconds, use “PROGRAM” button to go forward in the menus, use “+/START” button to increase values.

P1: Runtime of the pump (min)

P2: Idle time of the pump (hour)

P3: Idle time of the pump (min.)

AL: Prox. Sensor amount

- In EC models, AL should be set to “0”
- A1,A2,A3 express the amount of the sensors (Valid for EC/AL and higher pumps)

PL: Specifies the cycles amount of distribution block. When A1 value is entered, it asks for the PL value in the next step. PL value asks for the block’s cycles amount that sensor is connected. In this situation, P1 (runtime) value is disabled and pump works according to the entered PL value. In P2 and P3, entered idle times are valid.

Example: If PL is set “5”, pump counts the 5 signals which will come from the sensor and starts idling. Values of P2 and P3 specify the idle time.

L1,L2,L3: Appears on the screen for 2 seconds when they receive signal from sensors. They work real-time.

VI. ALARM DEFINITIONS

In SL.101.EC/AL Series:

PA: Expresses there’s no signal received from the distribution block in that 1 block is controlled. Control required: Grease may be no oil in the reservoir, there may be a disconnection between pumping unit and distribution block or records may be leaking, there may be blockage in the distribution block. There might be sensor failure. The distance between sensor and indicator pin may be bigger than the distance that sensor can detect.

In SL101.EC/AL3 Series:

A1: Expresses that the line with number 1 can’t detect signal from distribution block.

A2: Expresses that the line with number 2 can’t detect signal from distribution block.

A3: Expresses that the line with number 3 can’t detect signal from distribution block.

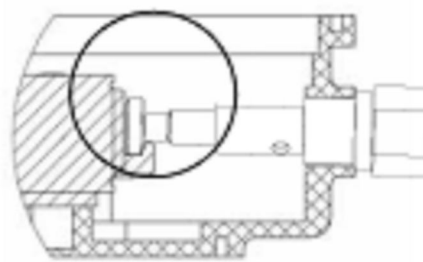
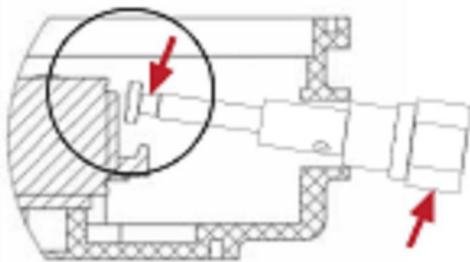
*There might be no oil in the reservoir or a failure in the motor of the pumps if all lines connected to the pump give alarm at the same time.

VIII. PUMPING UNITS

Piston type of pumping units are capable to create pressure up to 200 bars. Pumping units are designed able to overcome reverse pressure which might occur while transferring the grease. In the situation of bearings/distribution blocks are blocked, pressure in the pumping units will be increased slowly. Pumping units are equipped with security valves which are set to 200 bars in standart. When leak of oil is dedected in the security valce, pumping unit shows oils doesn't reach to these bearings and there's a failure. Pumping units work in the principle of push and pull.

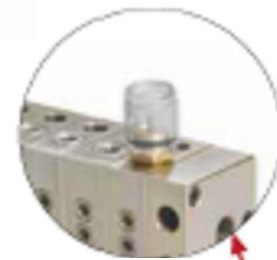
There are also SL101.PU model and SL101.PU.M model which is able to connect manometer and SL101.PU model.

CHANGE OF PUMPING UNIT: Piston of the pumping units is connected to the eccentric cam in the pump. While changing pumping unit, as it seen below, make sure of the piston holds the cam slot. Before placing the piston, piston must be taken out about 2,5 cm and put in with 15 degrees of angle, must be sure of piston head is placed in the cam and then must be screwed.



VII. DISTRIBUTION BLOCKS

There are 5 different output volume ie: 0,10cc, 0,15cc, 0,20cc, 0,30cc, 0,40cc. Maximum 10 middle elements can be used. There are middle elements in 5 different output volume. In all models indicator pin option is available except the 0,10 cc of middle element. It's operated with maximum 10 middle elements, by blinding/using different volumes of middle elements, grease output amount can be set. Connection sizes Input: 1/4" female, output 1/8" female. Middle element sizes: 0,10cc, 0,15cc, 0,20cc, 0,30cc, 0,40cc. Progressive Type Monoblock Distribution Blocks: There are output options available from 6 to 12. Alarm system can be adapted by connection sensor with indicator pin option.



indicator pin



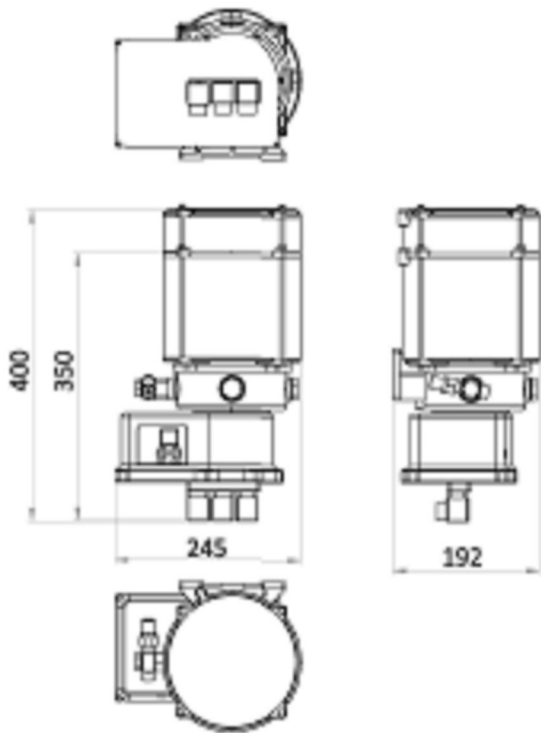
Input 1/4" female
Output 1/8" female



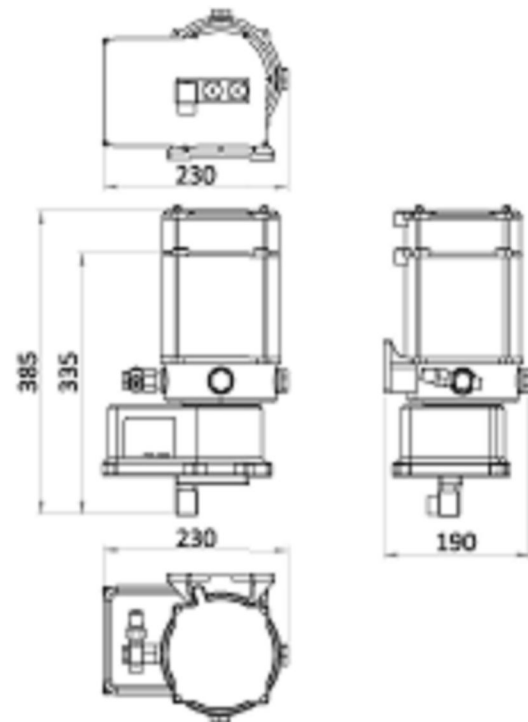
Manual greasing
nipple

IX. PUMP SIZES

Sizes of 3,5 Lt and 4,5 Lt of pumps



Sizes of 2,5 Lt and 3,5 Lt of pumps



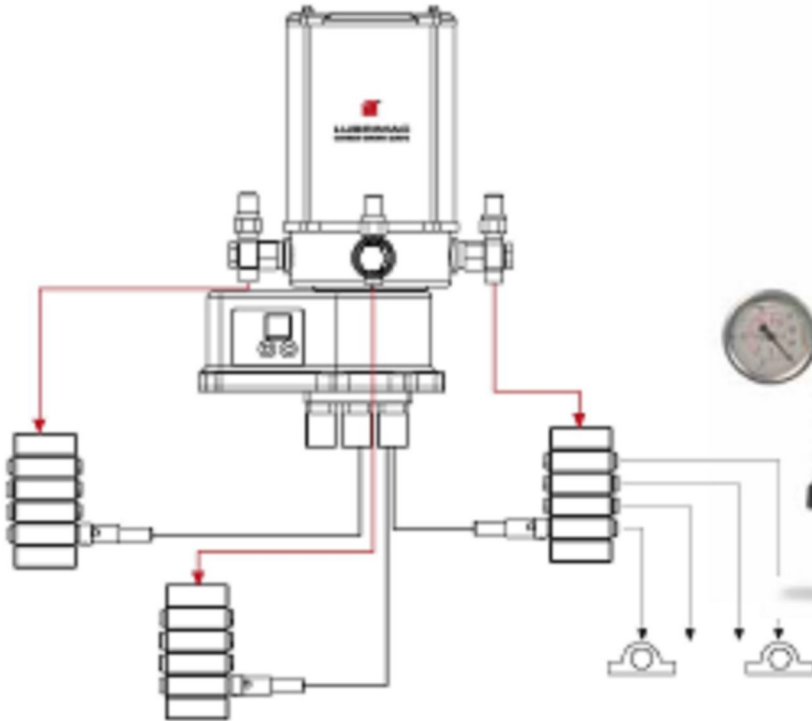
X. ORDER METHOD

SL101.XX.XX.X

D	12 V DC	1: 1 lt
EC	24 V DC	2: 2,5 lt
EC/AL		3: 3,5 Lt
EC/AL3		4: 4,5 Lt

Example: SL.101.EC/AL.24.2: SL101 pump, control card, pum with maximum 1 alarm system, 24 DC voltage of supply, 2,5 Lt reservoir volume.

Censor Connection Form of EC/AL3 Pump



SL101.EC/AL3.24.4

24DC 4.5LT AL3 SERIES

PUMP + 3P.UNIT



SL101.D.24.3

24DC 3.5 LT D SERIES PUMP



SL101.EC.24.4

24DC 4.5 LT D SERIES PUMP

XI. ACCESSORIES



4 pins of connector



Audible, light alarm



Pipe clamps



Manual grease nipple



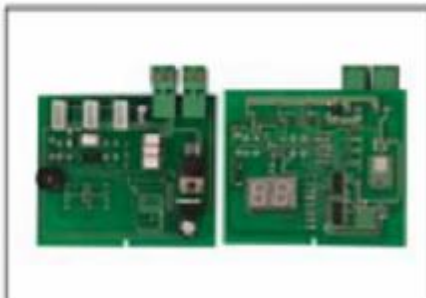
High-pressure hose recordset



Record and additional connection nipples



Plastic clamps



Spare control card



Clamps



Automatic record types



Steel tubes Ø6- Ø8-Ø10



8 mm high-pressure hose



Polyamide hose



Extension – reduction – elbow and record types



Manometer

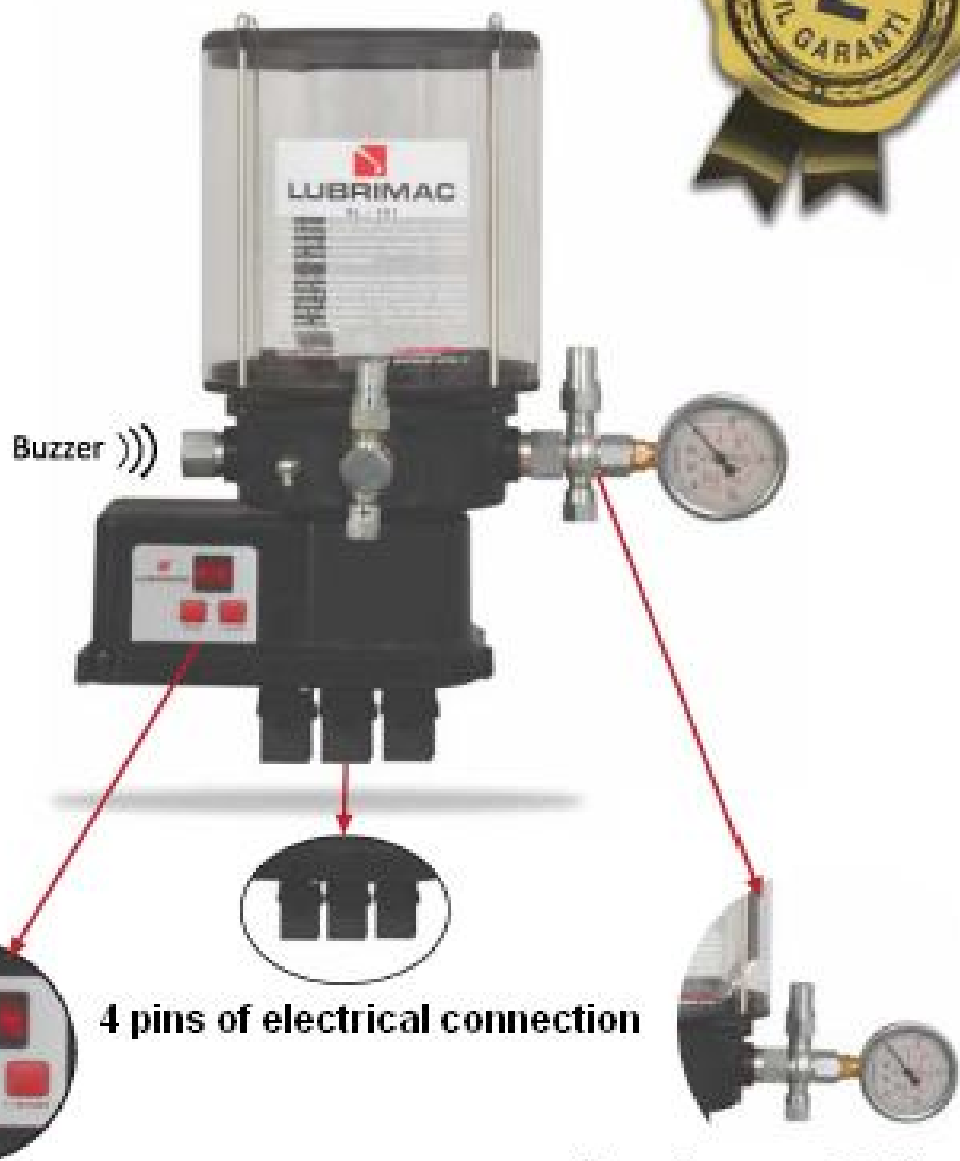


Spare standart pumping unit



LUBRIMAC

centralized lubrication systems



Buzzer)))

4 pins of electrical connection

Integrated digital control card

security valve max 200 bars

AUTHORIZED DEALER



LUBRIMAC

Can Kimya Taahhüt San. ve Tic. Ltd.

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