NEXOIL

FLUID SYSTEMS MANUFACTURING

FLENCO

LUBRICATION SYSTEMS ISO CYLINDER

OK LUB II

ELECTRIC PUMP FOR GREASE AND OIL LUBRICATION SYSTEMS A MULTIPLE LINES

INSTALLATION USE AND MAINTENANCE MANUAL

CE

Edition 06/2018
Z3321007EN

INDEX

INTRODUCTION

This use and maintenance manual refers to the OKLUB2 series electric pump.
Conserve properly this manual to avoid his damage.

TECHNICAL FEATURES

The OKLUBII series electric pumps are characterized by compactness and great versatility. They can be used for fixed installations or for motor vehicles. They can supply up to 3 lines, and a maximum pressure of 200 bar is limited by a safety valve built into the piston. This series of electric pumps is particularly suitable for feeding progressive type distributors in grease lubrication systems with continuous or intermittent operation.
The following tables show the technical characteristics of the OK-LUB II series electric pumps.

Number of outlets:	from 1 to 3
Maximum pressure:	200 bar (integrated relief valve)
Tank capacity:	2-5-10 kg
IP rating:	IP 65
Power supplies:	

- 12 / 24VDC direct current
- 110 50 / 60Hz single phase
- 220 50 / 60Hz single phase
- Three-phase multi-voltage 220 / 480V - 50 / 60Hz

DESCRIPTION OF PUMP FUNCTIONING

The geared motor (Fig. 1 part. 1) rotates the center shaft (Fig. 1 part. 2) at a speed of about 15 rpm. An off-center cam (Fig. 1 part. 2) and the blade disk (Fig. 1 part. 3) have been machined into the shaft (Fig. 1 part. 5). The rotation of the blade disk pushes the grease from the transparent tank to the lower part of the pump so that the pumping element (Fig. 1 part. 4) can take in the grease and send it to the outlet connections.
If required the pump can be fitted with 2 or 3 pumping elements instead of just one, each of which supply an independent line.

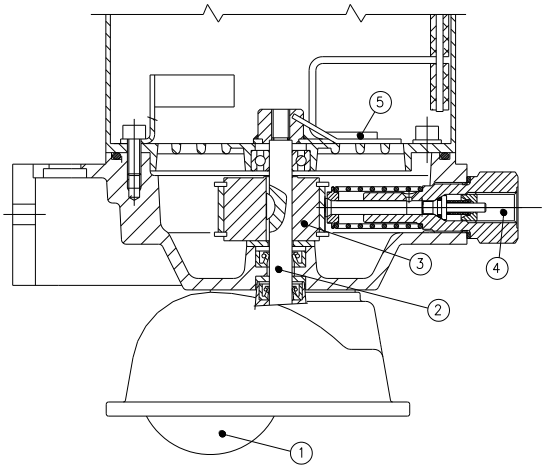


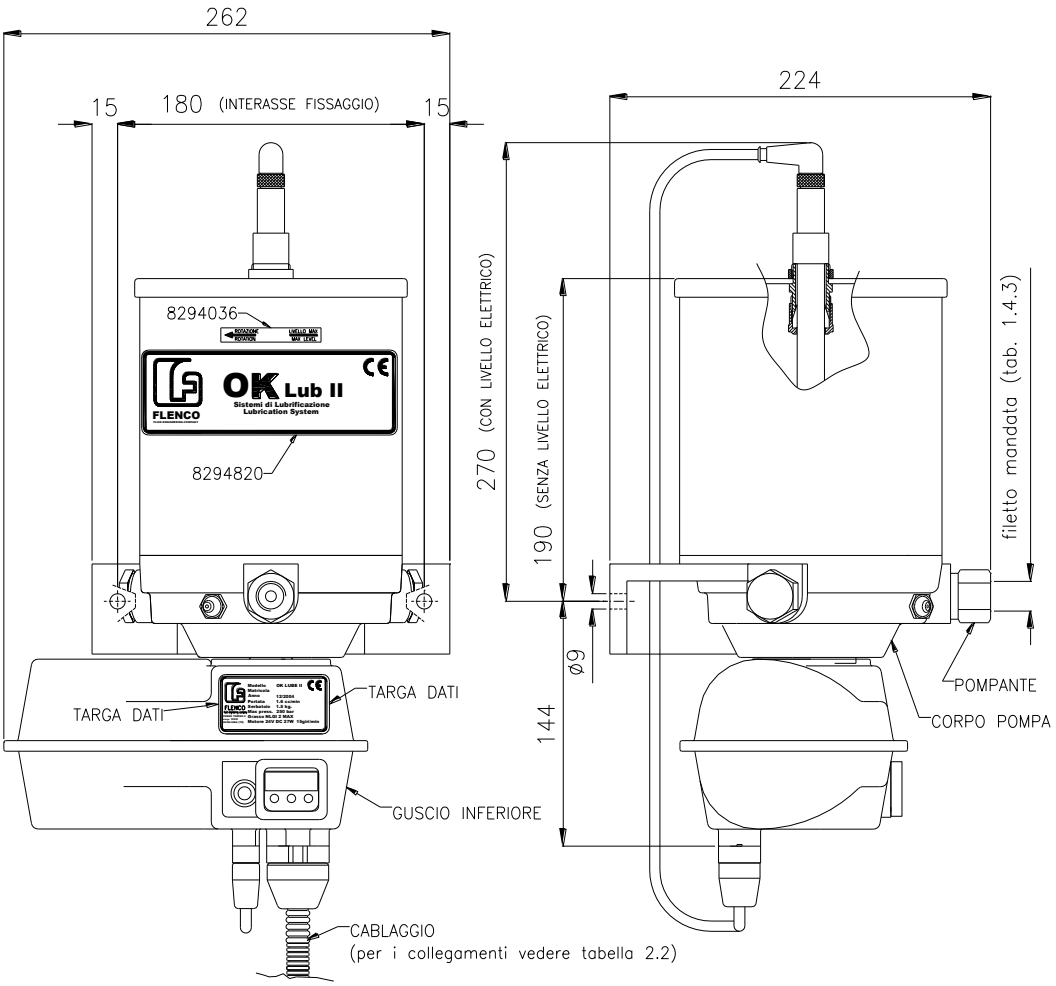
Figura 1

The pumping effect is a consequence of the reciprocating motion of the piston, which have a maximum pressure valve integrated set on 20MPa (200bar).

INSTALLATION AND VERSIONS

For positioning and for all the data necessary for correct installation (dimensions, connections, etc.), refer to the following figures.

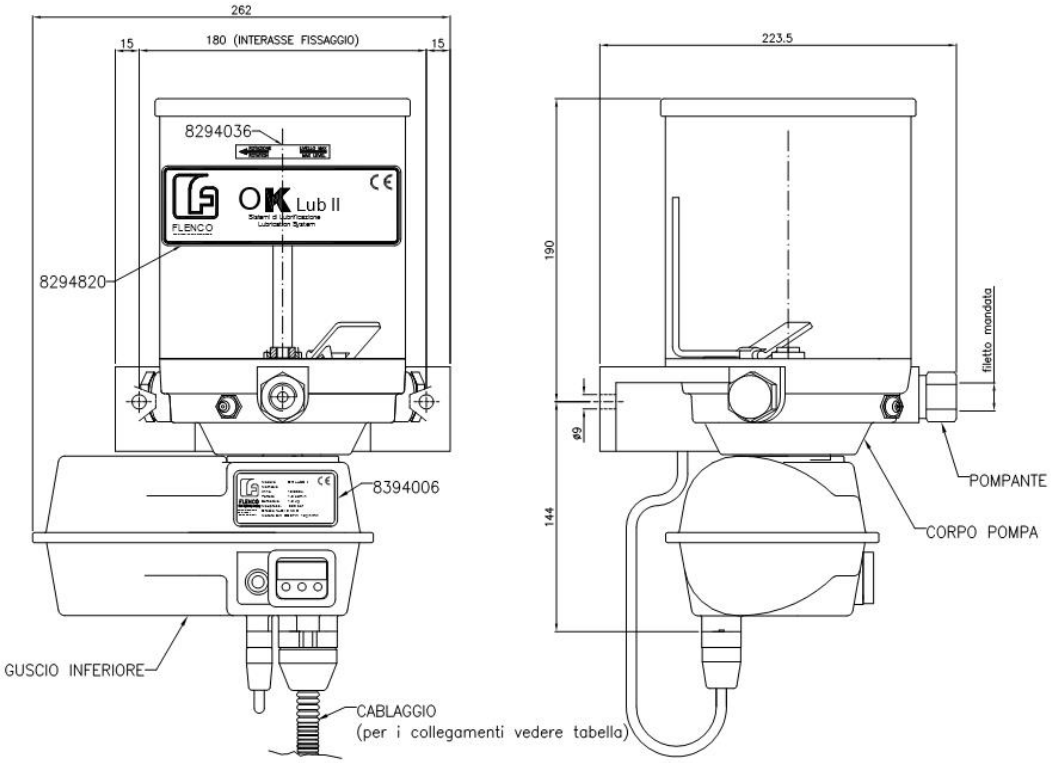
OK-LUB II electric pump versions with 2Kg tank 12Vdc and 24Vdc



Pump P/N	Electronic Card	Minimum level	Pump Body P/N	Bottom Casing P/N	Wiring Type	Power Supply VDC
6014224	●	●	7014001	8162162	A	24
6014225	●		7014001	8162163	A	24
6014226		●	7014001	8162174	C	24
6014227			7014001	8162164	B	24
6014344	●	●	7014004	8162190	A	12
6014345	●		7014004	8162192	A	12
6014346		●	7014004	8162174	C	12
6014347			7014004	8162164	B	12

Pumping Element (Thread outlet): 7234011 (G3/8")
Delivery (per punping element): 2.6 cc/min

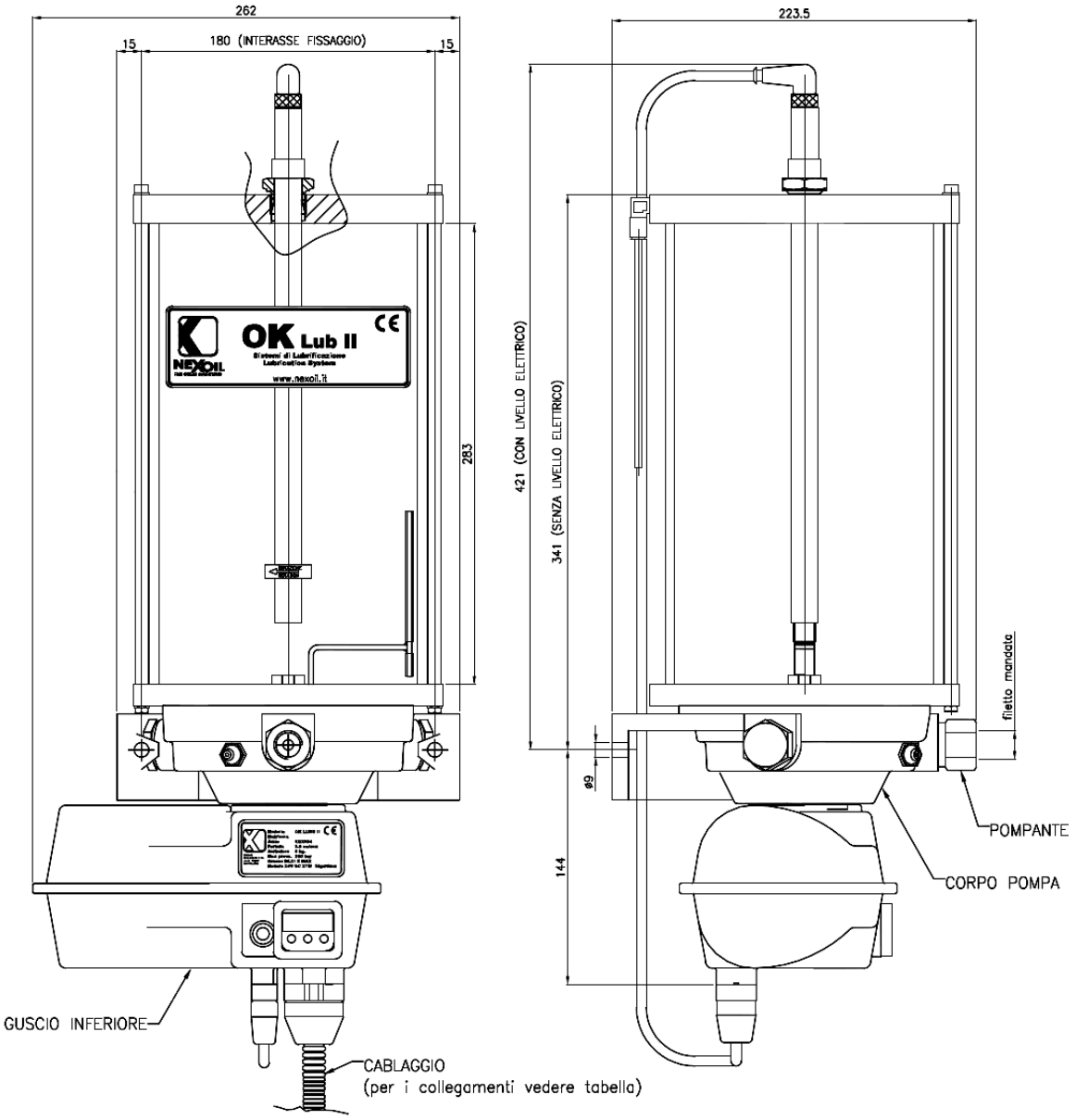
OK-LUBII electric pumps versions
with 2Kg transparent tank with 24Vdc, REED minimum level



Pump P/N	Electronic Card	Minimum level	Pump Body P/N	Bottom Casing P/N	Wiring Type
6014680	●	●	7014077	8162162	A
6014681		●	7014077	8162174	D

Pumping Element (Thread outlet): 7234011 (G3/8")
Delivery (per punping element): 2.6 cc/min

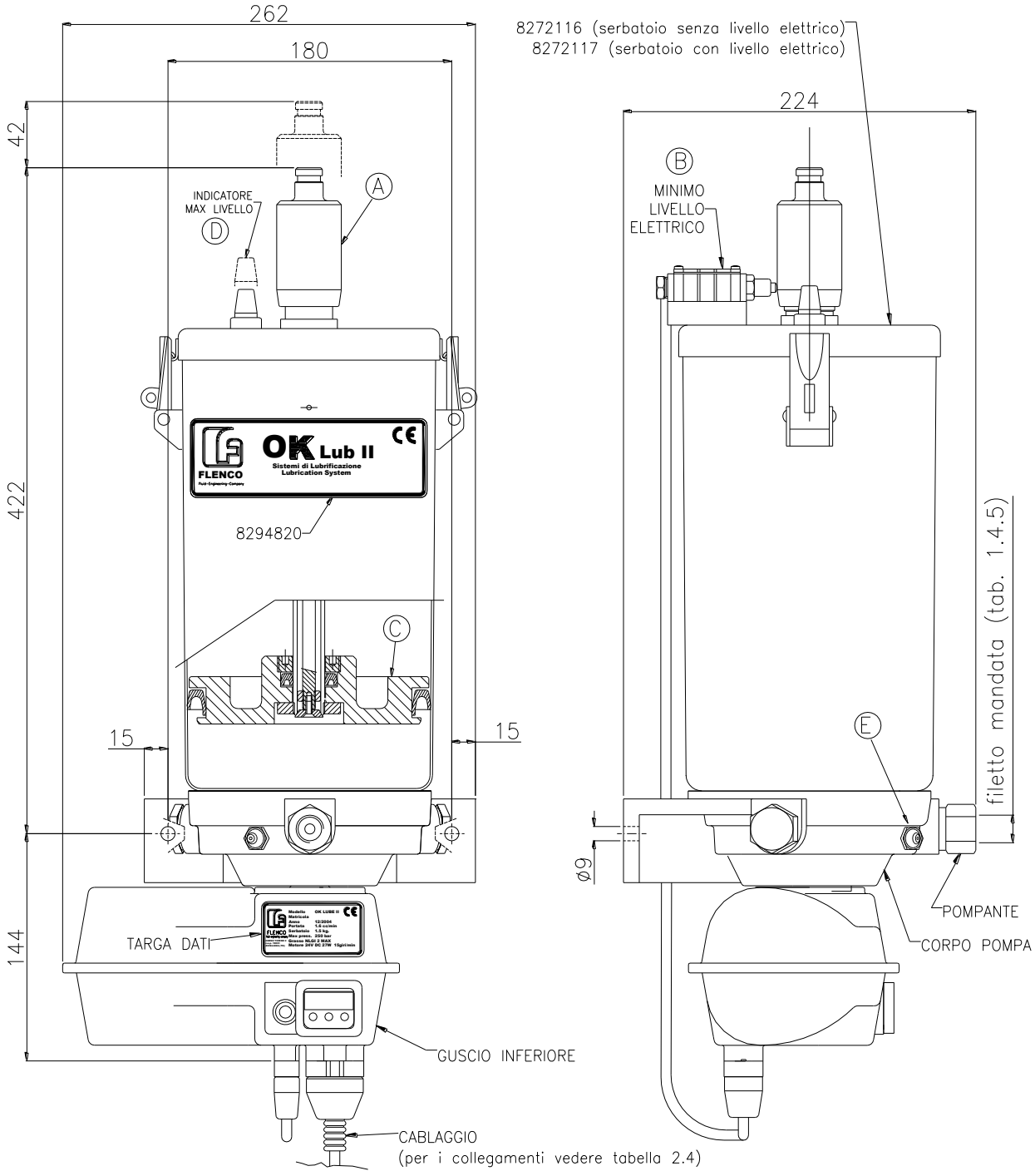
OK-LUBII electric pumps versions
with 5Kg transparent tank with 24Vdc, Capacitive minimum level



Pump P/N	Electronic Card	Minimum level	Pump Body P/N	Bottom Casing P/N	Wiring Type
6014642	●	●	7014001	8162162	A
6014643		●	7014001	8162174	C
6014644	●		7014001	8162162	A
6014645			7014001	8162164	B

Pumping Element (Thread outlet): 7234011 (G3/8")
Delivery (per punping element): 2.6 cc/min

OK-LUB II electric pump versions with 5Kg metal tank 12Vdc and 24Vdc

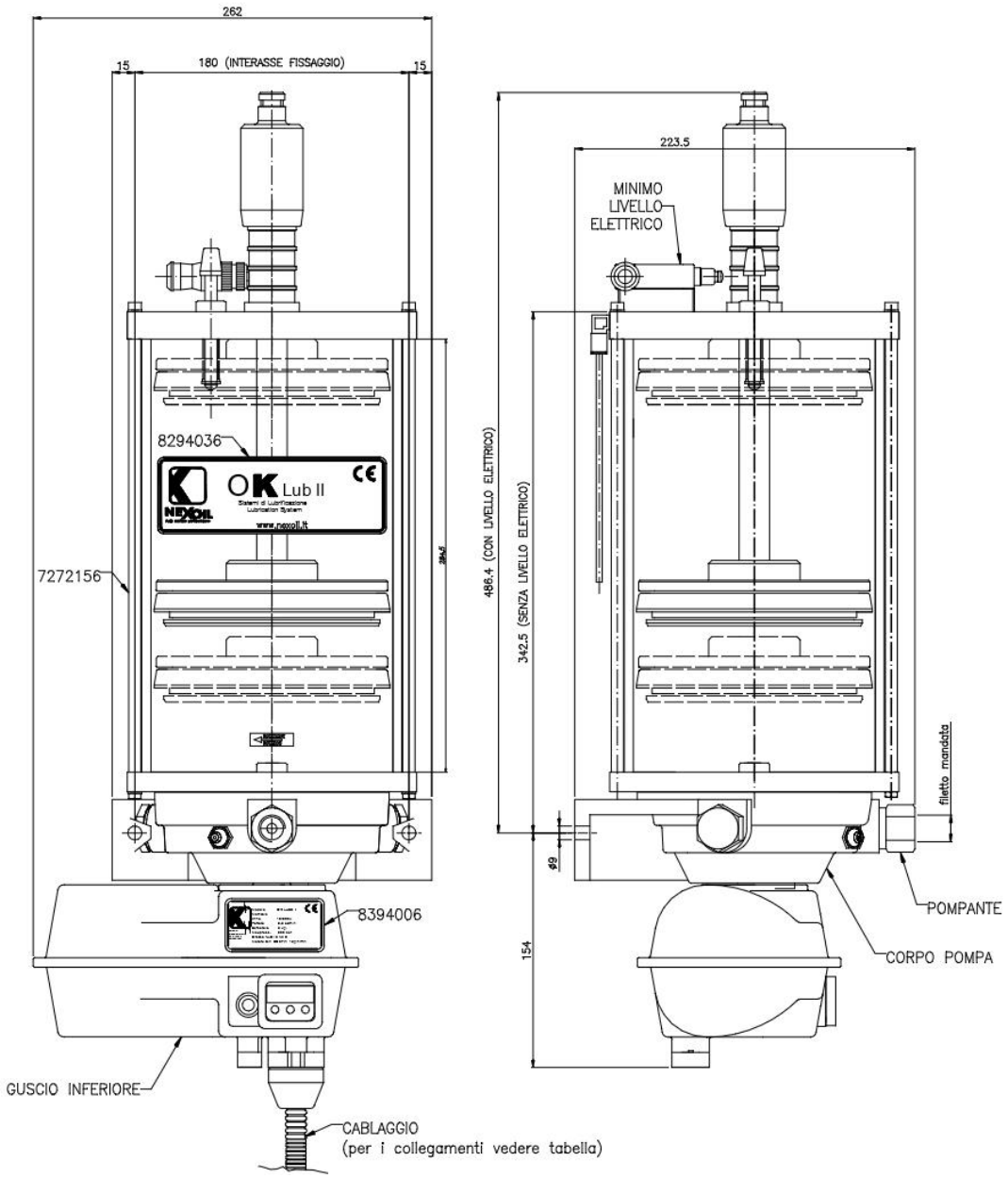


Inside the tank there is a pressure disc (C) which facilitates the emptying when the pump is in operation.
With a half-empty tank, the presser engages the knob (A) which intervenes on the switch (B), signaling the minimum level.
When the tank is filled by means of the grease nipple (E), the presser in the last phase pushes the dipstick (D) outwards.
Its lifting signals the achievement of the maximum level.

Pump P/N	Electronic Card	Minimum level	Pump Body P/N	Bottom Casing P/N	Wiring Type	Power Supply VDC
6014264	●	●	7014001	8162162	A	24
6014265	●		7014001	8162163	A	24
6014266		●	7014001	8162174	D	24
6014267			7014001	8162164	B	24
6014364	●	●	7014004	8162190	A	12
6014365	●		7014004	8162192	A	12
6014366		●	7014004	8162174	D	12
6014367			7014004	8162164	B	12

Pumping Element (Thread outlet): 7234011 (G3/8”)
Delivery (per punping element): 2.6 cc/min

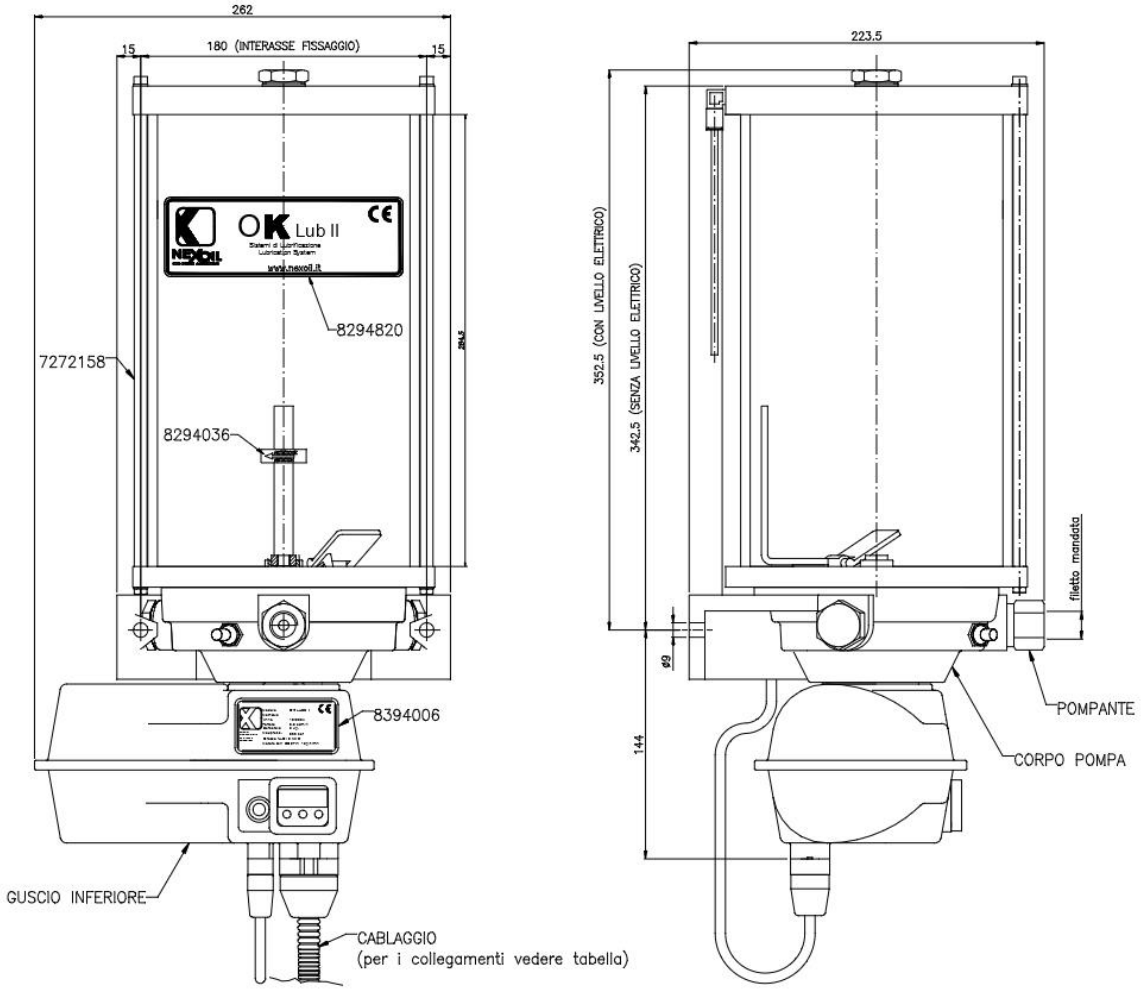
OK-LUBII electric pumps versions
with transparent tank with 5Kg 24Vdc and pressure disc



Pump P/N	Electronic Card	Minimum level	Pump Body P/N	Bottom Casing P/N	Wiring Type
6014710	•	•	7014001	8162162	A
6014711		•	7014001	8162174	D
6014712			7014001	8162164	B

Pumping Element (Thread outlet): 7234011 (G3/8")
Delivery (per punping element): 2.6 cc/min

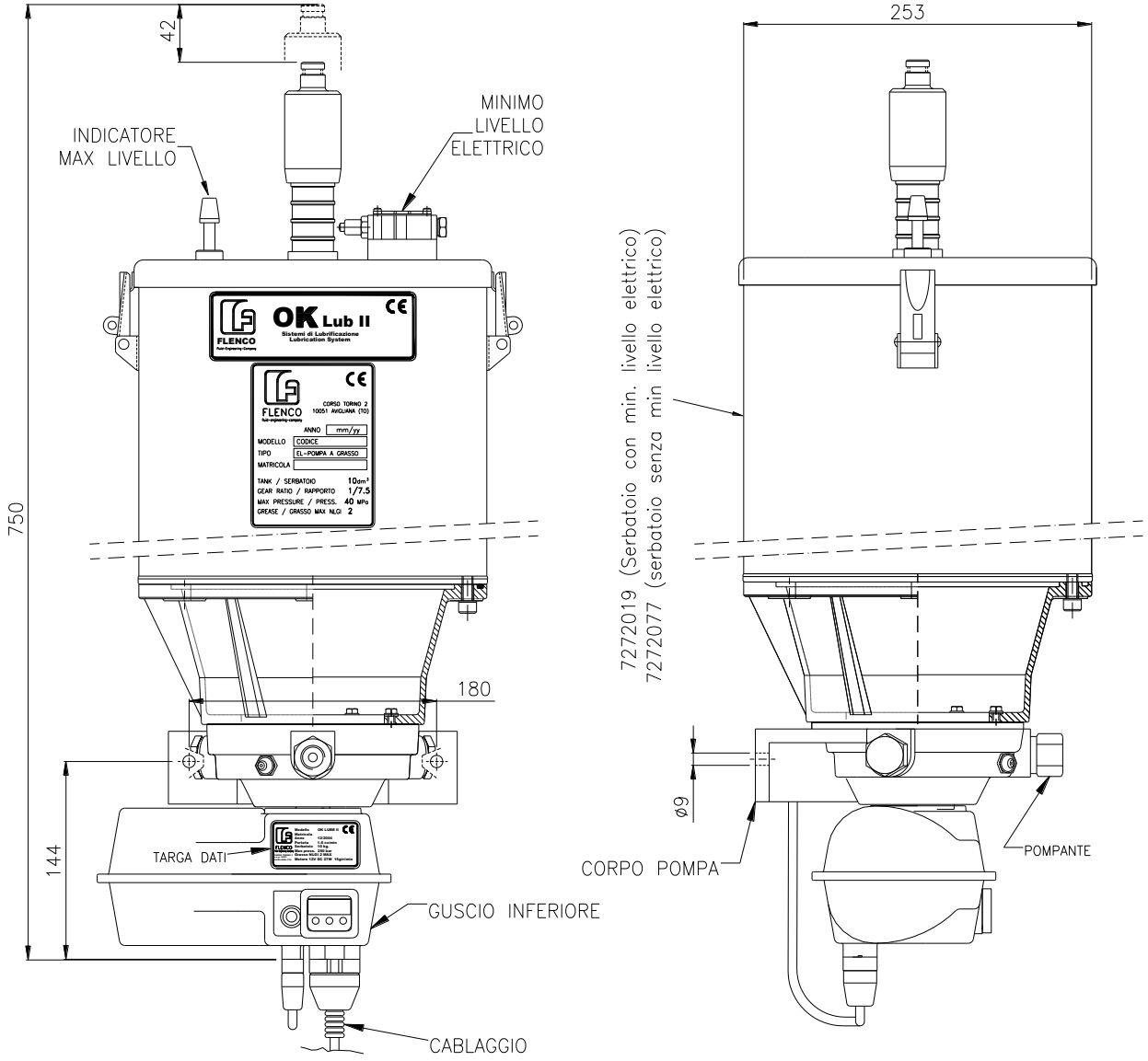
OK-LUBII electric pumps versions
with transparent tank 5Kg 24Vdc REED minimum level



Pump P/N	Electronic Card	Minimum level	Pump Body P/N	Bottom Casing P/N	Wiring Type
6014670	●	●	7014077	8162162	A
6014671		●	7014077	8162174	D

Pumping Element (Thread outlet): 7234011 (G3/8")
Delivery (per punping element): 2.6 cc/min

OK-LUB II electric pump versions with 10Kg tank 12Vdc and 24Vdc

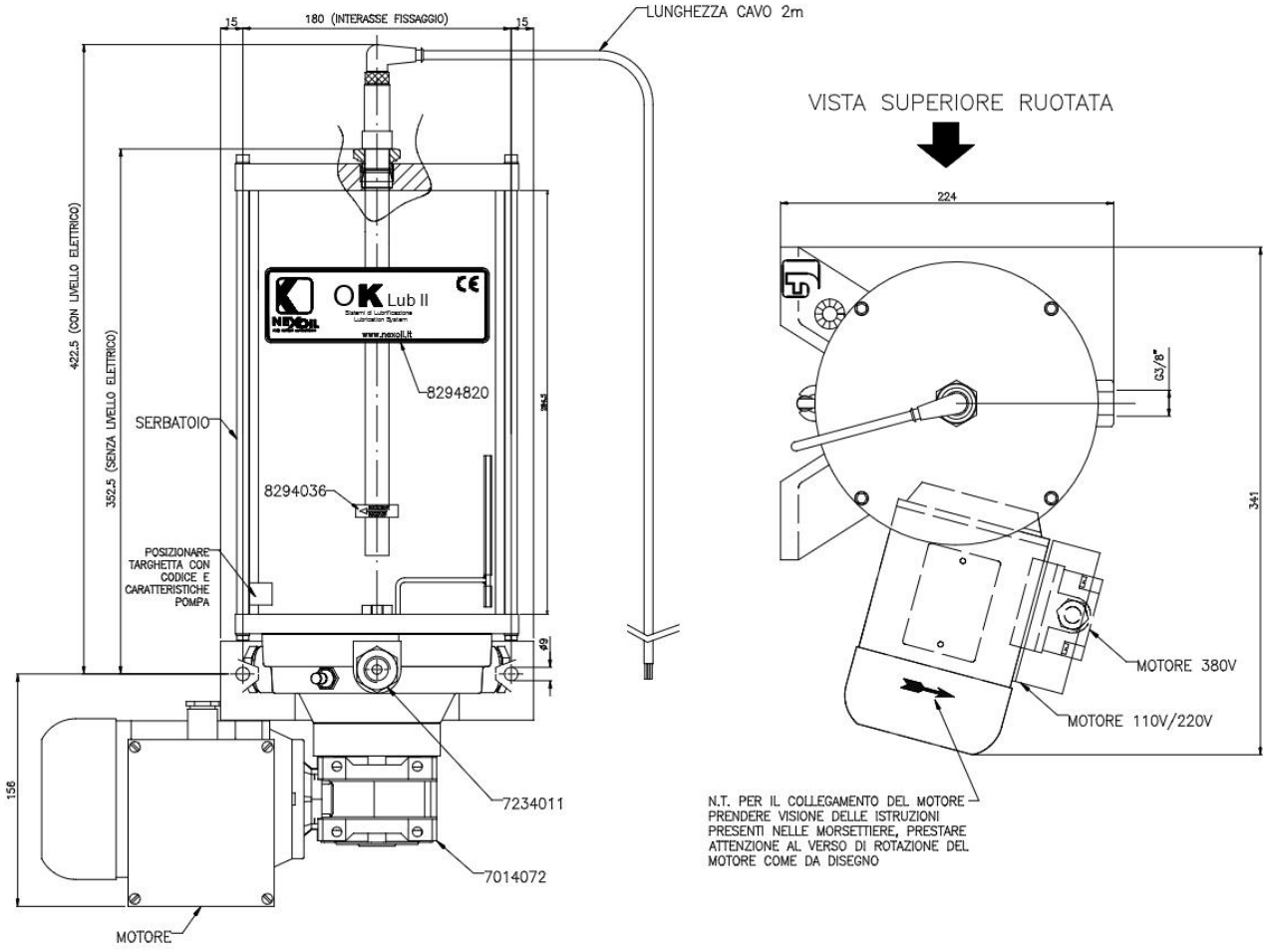


NOTE: Pump tank is out of 15mm from fixing surface.

Pump P/N	Electronic Card	Minimum level	Pump Body P/N	Bottom Casing P/N	Wiring Type	Power Supply VDC
6014424	●	●	7014001	8162162	A	24
6014425	●		7014001	8162163	A	24
6014426		●	7014001	8162174	D	24
6014427			7014001	8162164	B	24
6014384	●	●	7014004	8162190	A	12
6014385	●		7014004	8162192	A	12
6014386		●	7014004	8162174	D	12
6014387			7014004	8162164	B	12

Pumping Element (Thread outlet): 7234011 (G3/8")
Delivery (per punping element): 2.6 cc/min

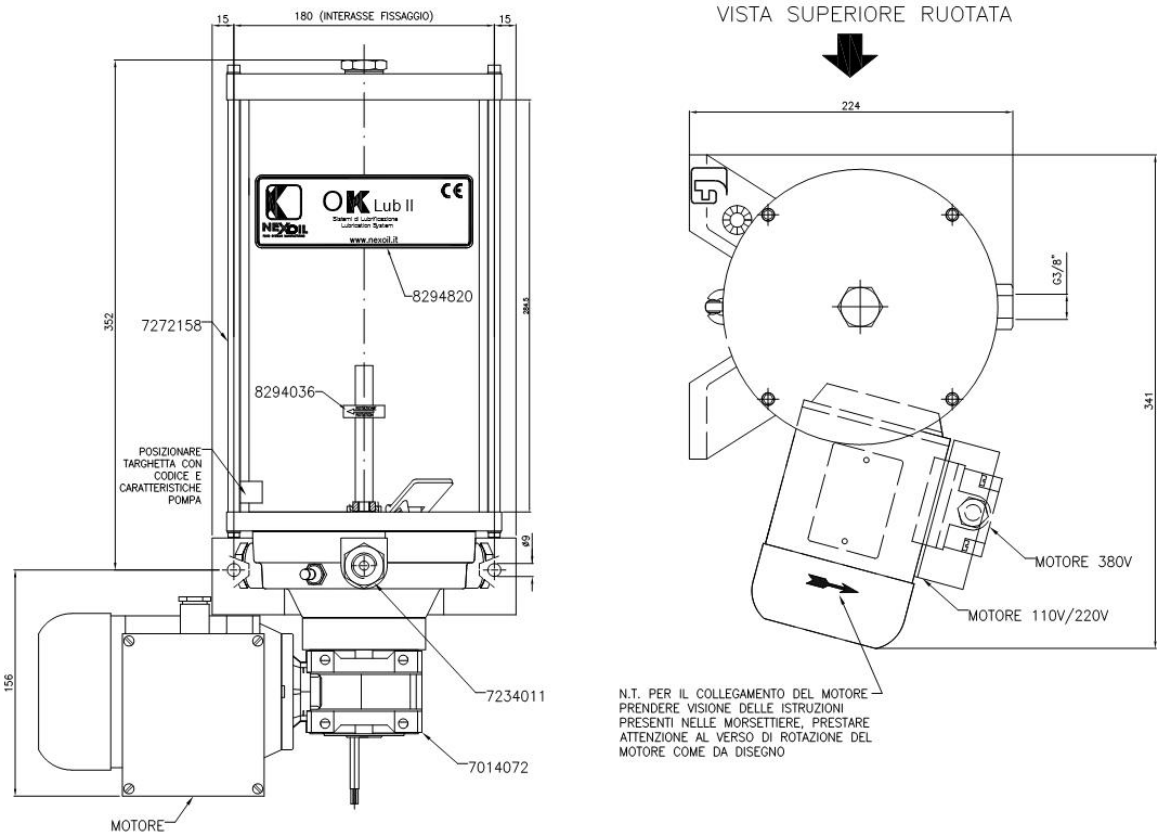
OK-LUB II electric pump versions
with 5Kg transparent tank, multi tension motor and Capacitive minimum level



Pump P/N	Motor	Tank	Minimum level	Motor Power Supply	Wiring Type
6014660	9083023	7272154		110V SINGLE-PHASE	-
6014661	9083023	7272150	●	110V SINGLE-PHASE	E
6014662	9083011	7272154		220V SINGLE-PHASE	-
6014663	9083011	7272150	●	220V SINGLE-PHASE	E
6014664	9083079	7272154		380V THREE-PHASE	-
6014665	9083079	7272150	●	380V THREE-PHASE	E

Pumping Element (Thread outlet): 7234011 (G3/8")
Delivery (per punping element): ≈3.0 cc/min

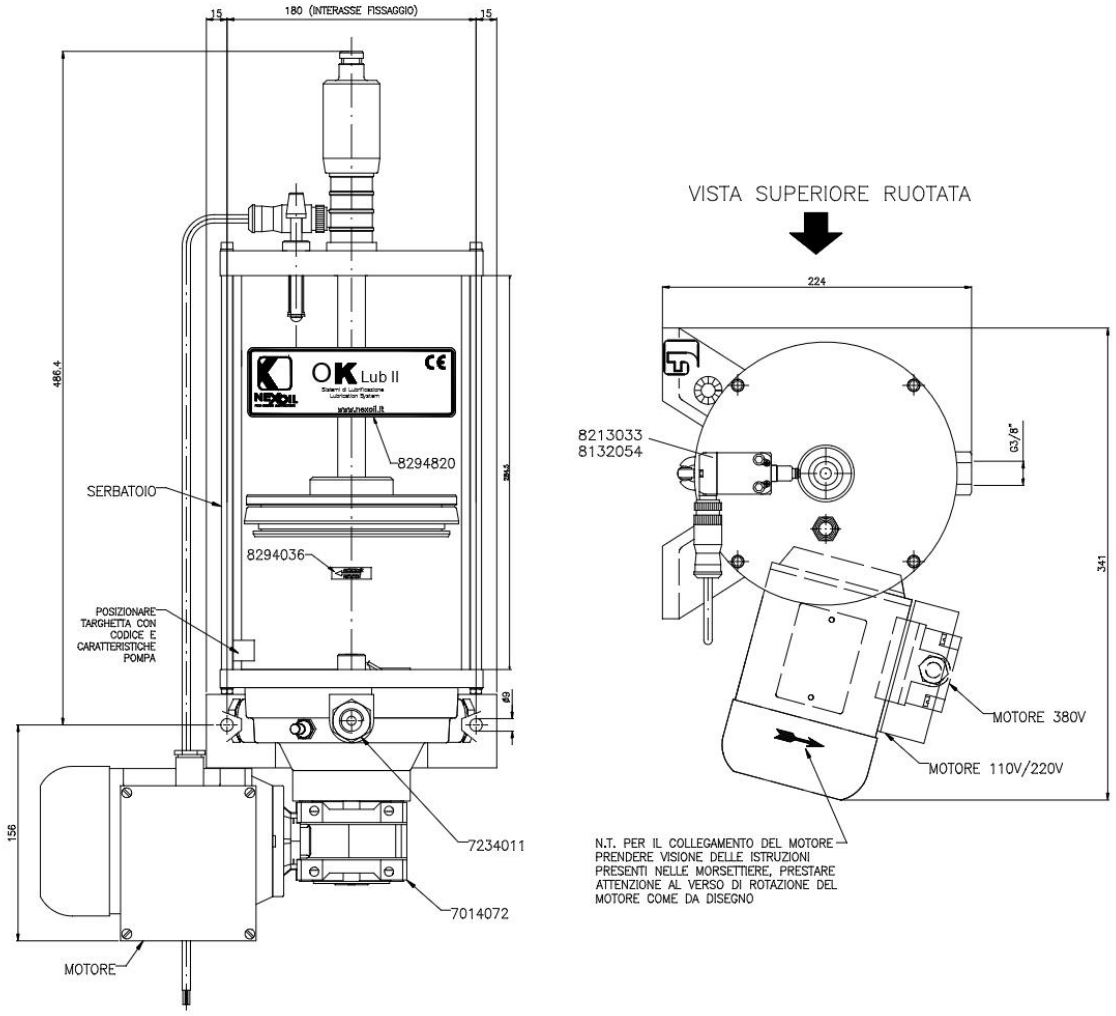
OK-LUB II electric pump versions
with 5Kg transparent tank, multi-tension motor and REED minimum level



Pump P/N	Motor	Motor Power Supply	Wiring Type
6014690	9083023	110V SINGLE-PHASE	F
6014691	9083011	220V SINGLE-PHASE	F
6014692	9083079	380V THREE-PHASE	F

Pumping Element (Thread outlet): 7234011 (G3/8")
Delivery (per punping element): ≈3.0 cc/min

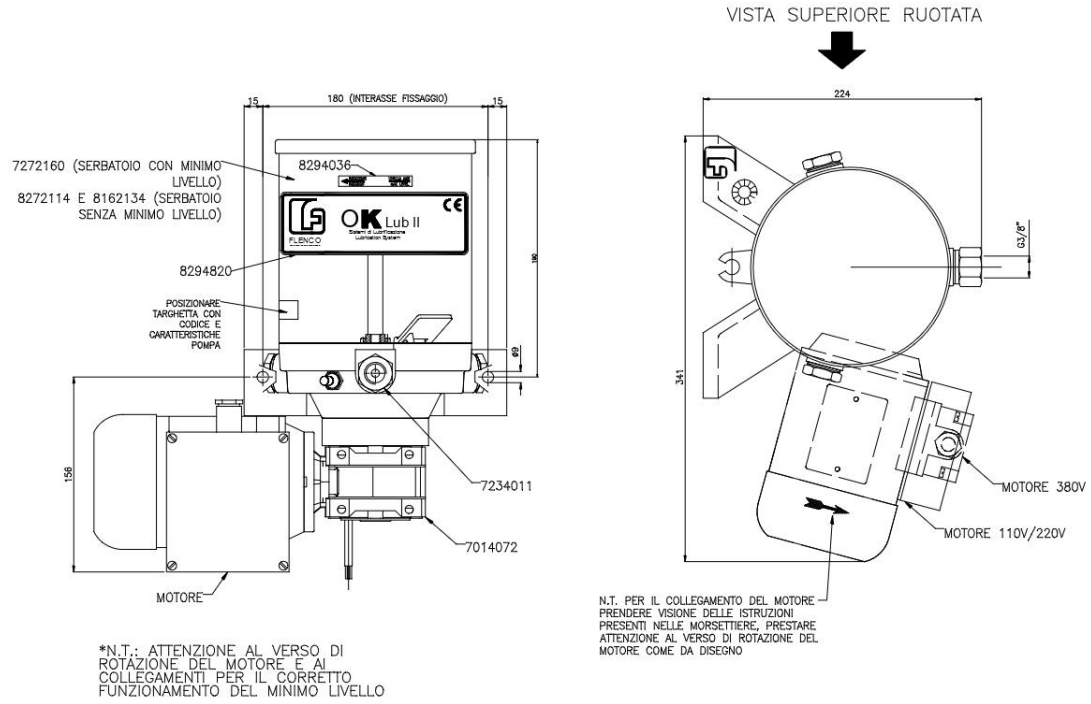
OK-LUB II electric pump versions
with 5Kg transparent tank, multi-tension motor and pressure disc



Pump P/N	Motor	Tank	Minimum level	Motor Power Supply	Wiring Type
6014700	9083023	7272161		110V SINGLE-PHASE	-
6014701	9083023	7272156	●	110V SINGLE-PHASE	F
6014702	9083011	7272161		220V SINGLE-PHASE	-
6014703	9083011	7272156	●	220V SINGLE-PHASE	F
6014704	9083079	7272161		380V THREE-PHASE	-
6014705	9083079	7272156	●	380V THREE-PHASE	F

Pumping Element (Thread outlet): 7234011 (G3/8")
Delivery (per punping element): ≈3.0 cc/min

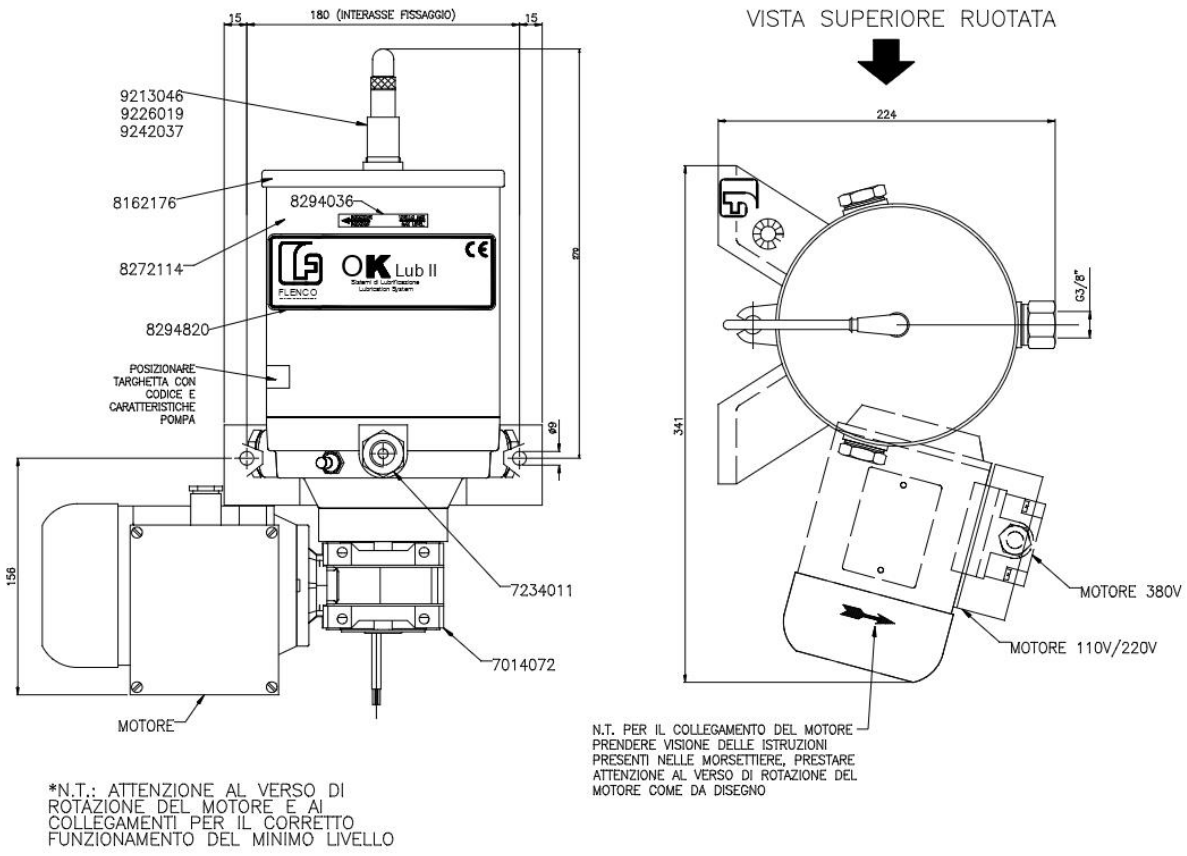
OK-LUB II electric pump versions
with 2Kg transparent tank, multi-tension motor and REED minimum level



Pump P/N	Motor	Minimum level	Motor Power Supply	Wiring Type
6014720	9083023		110V SINGLE-PHASE	-
6014721	9083023	●	110V SINGLE-PHASE	F
6014722	9083011		220V SINGLE-PHASE	-
6014723	9083011	●	220V SINGLE-PHASE	F
6014724	9083079		380V THREE-PHASE	-
6014725	9083079	●	380V THREE-PHASE	F

Pumping Element (Thread outlet): 7234011 (G3/8")
Delivery (per punping element): ≈3.0 cc/min

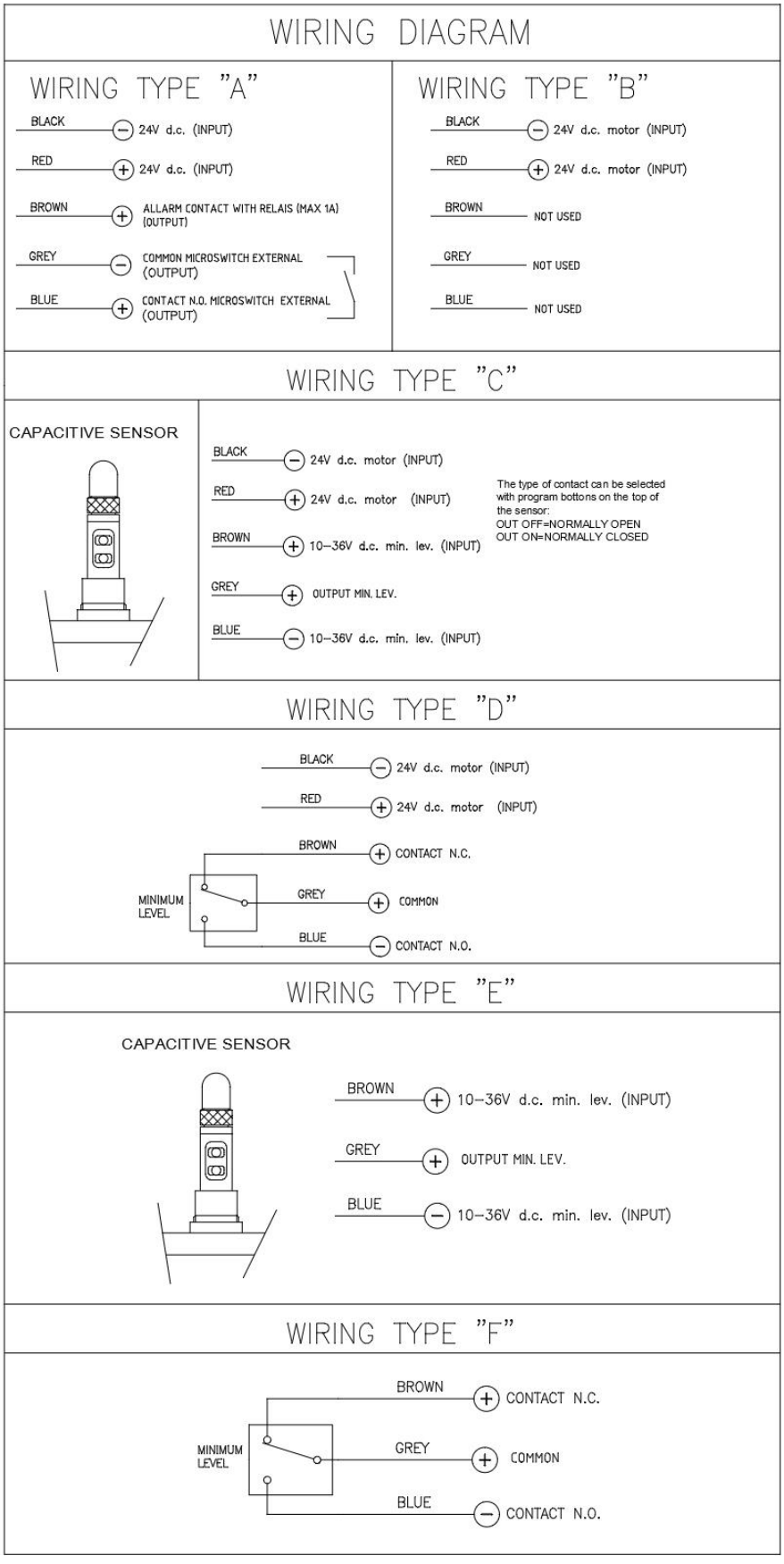
OK-LUB II electric pump versions
with 2Kg transparent tank, multi-tension motor and Capacitive REED minimum level



Pump P/N	Motor	Motor Power Supply	Wiring Type
6014730	9083023	110V SINGLE-PHASE	E
6014731	9083011	220V SINGLE-PHASE	E
6014732	9083079	380V THREE-PHASE	E

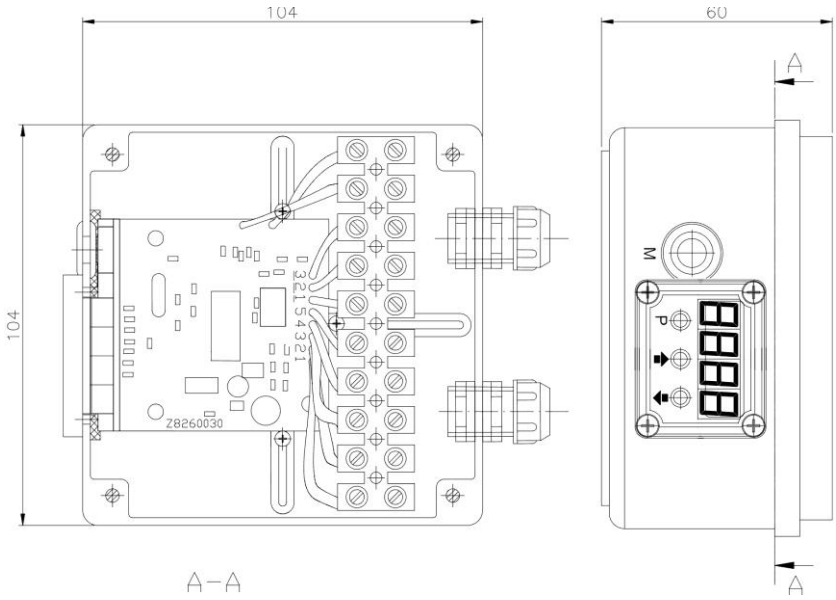
Pumping Element (Thread outlet): 7234011 (G3/8”)
Delivery (per punping element): ≈3.0 cc/min

WIRING DIAGRAM



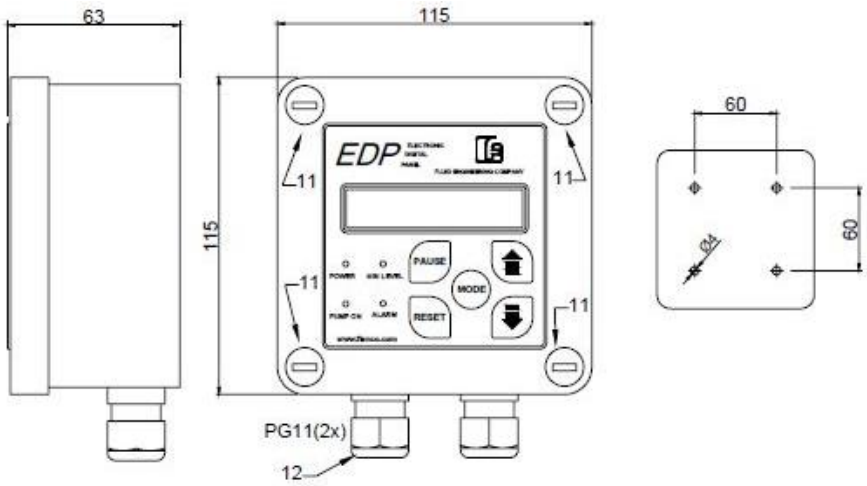
ELECTRONIC EQUIPMENT FOR REMOTE CONTROL

ELECTRONIC CARD PANEL 12/24 VDC – 6012039



The panel 6012039 allows the control and monitoring of OKLUB2 series electric pumps. For information, installation and wiring diagram see our 6012039 manual.

ELECTRONIC DIGITAL PANEL – 6012030



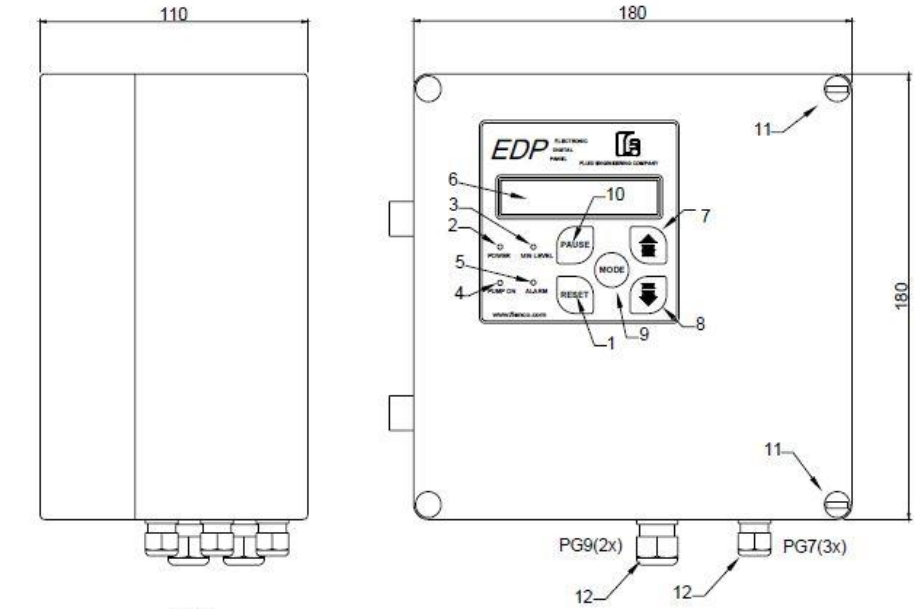
The panel EDP, grazie, allows the control and monitoring of small and medium lubrication systems.

Power supply:

6012030 - 110/220V-50/60Hz single-phase.

For more information see our EDP panel manual.

ELECTRONIC DIGITAL PANEL– 6012032/33



The panel EDP allows the control and monitoring of small and medium lubrication systems.

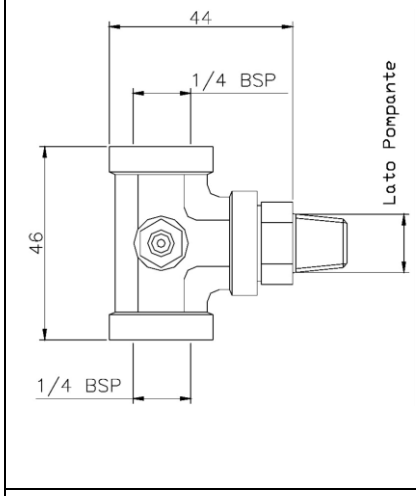
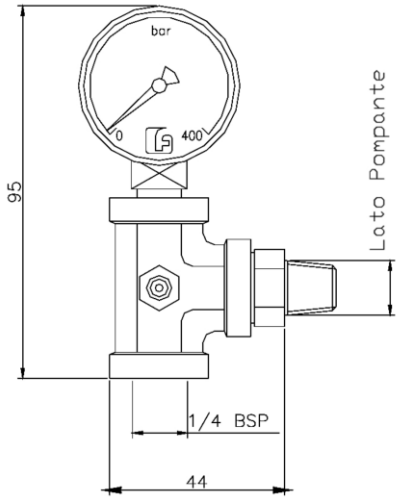
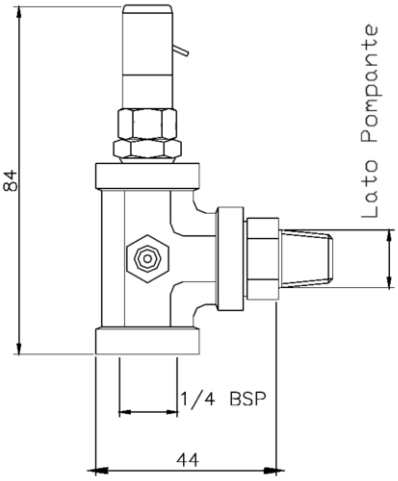
Power supply:

6012032 400V-50/60Hz three-phase
6012033 500V-50/60Hz three-phase

For more information see our EDP panel manual.

EXTERNAL CONNECTIONS

DELIVERY CONNECTIONS (to be ordered separately)

		
KIT connection "T" ¼ BSP with nipple and hydraulic connector CODE 7120361	*KIT connection "T" ¼ BSP with nipple and hydraulic connector pressure gauge 0-40 MPa CODE* 7120362	*KIT connection "T" ¼ BSP with nipple and hydraulic connectors and pressure indicator with memory CODE* 7120363

Note: - Each connection kit is equipped with a grease nipple for filling the line.

WIRING (to be ordered separately)

Length cables are provided:

2mt Z8147015	8mt. Z8147031
4mt. Z8147019	12mt. Z8147032
6mt. Z8147029	15mt. Z8147033

Other measures can be made upon request.

FORESEEN, UNFORESEEN AND INCORRECT USES

The pumps have been designed and built for the construction of automatic grease lubrication systems.

NOTE	**Use of pumps for other purposes constitutes improper use** **NEXOIL srl declines any responsibility on the related consequences.**

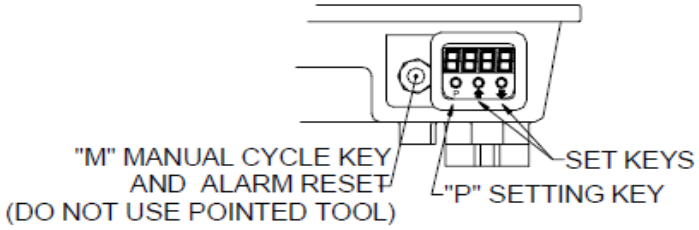
RESIDUAL RISKS

The project studies have assessed all the possible risks concerning pump use and maintenance
and all the necessary precautions have been taken to avoid risks and safeguard exposed persons..
However, on the pump the following residual risks remain that can be eliminated or reduced
taking the following precautions:
Impact risks, shearing after access to moving parts inside the tank capacity of the grease pump.

DANGER	**It is absolutely forbidden to remove the cover of the tank for grease.**

ELCTRONIC CONTROL CARD SETTING AND MINIMUM LEVEL

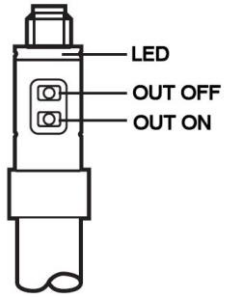
CONTROL PANEL DETAIL



CYCLE TIME AND PAUSE SETTING		
TO SET CYCLE TIME AND PAUSE, PRESS "P" FOR 2 SECONDS		
PRESS "P" TO REGISTER PARAMETERS		
SET WITH KEYS⇑ AND⇓ LUBRICATION CYCLE TIME (0 - 90 min)		
PRESS "P" TO REGISTER PARAMETERS		
SET WITH KEYS⇑ AND⇓ PAUSE TIME (0 - 900)		
PRESS "P" TO REGISTER PARAMETERS		
THE DISPLAY SWITCH OFF FOR FEW SECONDS; WHEN IT RESTARTS IT SHOWS THE PAUSE TIME		
ALARMS		
AL L MINIMUM LEVEL ALARM	AL P CYCLE ALARM	
PRESS "M" TO RESET THE ALARM		
PUMP SETTING		
TO SET THE PUMP, PRESS CONTEMPORARELY "P" AND "M" FOR 2 SECONDS		
SET WITH KEYS⇑ E ⇓ THE TYPE OF THE CYCLE CONTROL		
nCYC NUMBER OF CYCLES	CYC ONLY ONE CYCLE	CLOC NO CYCLE: ONLY TIME
PRESS "P" TO REGISTER PARAMETERS		
n 01 SET WITH KEYS ⇑E⇓ THE NUMBER OF CYCLES (01-50)		
PRESS "P" TO REGISTER PARAMETER		
SET WITH KEYS⇑ AND⇓ THE TIME UNIT FOR PAUSE		
t M1 MINUTES FOR PAUSE TIME	t H HOURS FOR PAUSE TIME	
PRESS "P" TO REGISTER PARAMETERS		
SET WITH KEYS⇑ AND⇓ THE PRESENCE OF THE MINIMUM LEVEL SENSOR		
L On SENSOR PRESENT	LOFF SENSOR NOT PRESENT	
PRESS "P" TO REGISTER PARAMETERS		
SET WITH KEYS⇑ AND⇓ THE TIME OF THE LUBRICATION CYCLE (0 - 90 min)		
PRESS "P" TO REGISTER PARAMETERS		
SET WITH KEYS⇑ AND⇓ THE TIME OF THE PAUSE CYCLE (0 - 900 min)		
PRESS "P" TO REGISTER PARAMETERS		
THE DISPLAY SWITCH OFF FOR FEW SECONDS; WHEN IT RESTARTS IT SHOWS THE PAUSE TIME		

Minimum level Setting LI5141

The minimum level is calibrated at first when assembled. It can be however reset according to your
needs.
To carry out the adjustment follow below:

1	Empty the tank until the medium is at least 20 mm below the end of the probe.	
2		**N.O. (open contact to the minimum level)** Press OUT OFF keep it pressed for min 2 sec. max. 6 sec. The yellow LED flashes slowly. When the button is released, it goes out. **N.C. (contact closed to the minimum level)** Press OUT ON keep it pressed for min 2 sec. max. 6 sec. the yellow LED flashes slowly, after 6 s it flashes quickly. After releasing the push button, it lights continuously.

- In case of "load-less" adjustment the level measurement is given by a relative value; a hypothetical value is then automatically generated "at full" (this value is given by the "load-less" value and the signal distance fixed in the factory).

- Set the optimum commutating threshold between the two values afterwards.

The unit is ready for the operation.

Lock / unlock

The unit can be locked electronically to prevent unintentional settings.
Press both setting push button simultaneously for at least 10 s in the operating mode.
The yellow LED temporarily changes its status:

- If it lights at the beginning of the setting operation, it goes out for a few seconds.
- If does not light in the beginning, it lights for a few seconds.

Then the unit is locked or unlocked.

Operation

When the supply voltage has been applied, the unit is in the operating mode.
It carries out its measurement and evaluation functions and switches the output.
Operation indication by LED:

Visualization by LED

The green LED is light	Unit ready for operation, N.O.
The yellow LED is light	Unit ready for operation, N.C.

Technical data minimum level

Operating voltage [V] . . . . .10 ... 36 DC		
Current rating [mA] 200;		
Short-circuit protection(pulse) protected against reverse polarity and overload		
Voltage drop [V] . . .. < 2,5		
Current consumption [mA]. . . . .< 22		
Housing materials . . . . . .PP-GF (orange); TPE/U		
Materials wetted parts . . . . . PP (polipropilene)		
Temperature [°C].	operating. . . . . -25... +80	Stocking.. . . . -25 … +80
Medium Temperature [°C]	continuous . . . . . .0 ... +65	peack .. . . . . .0 … +80
Protection class. . . .. IP65, IP 67, II		
EMC EN61000-6-2:2005+Corr.2005/EN61000-6-4:2007		

COMMISSIONING

Before starting the pump the following check are to be mode:

- Filling the lubrication tank. The tank is only to be filled through the specific block fitted with a filter to avoid that abrasive material, metallic impurity, textile or other fibers, sand, dust etc. Accidentally enter into the tank causing damage or malfunctioning of the lubrication system.

! CAUTION	**Fill the pump using a pneumatic pump with a fitting for standard grease nipples. No not exceed the level indicated on the tank.** **Filling the pipes. After the system has been assembled the pipes must be filled. Care must be taken during this operation to avoid causing air bubbles that world interfere with normal system operation. Fill the system section, keeping the ends of each line section disconnected and pumping lubricant until this comes out compact and uniform from the and of the filled section.**

- Electric motor rotation. Check that the pump electric motor rotates in the direction indicated by the arrow on the tank.

RECOMMENDED SPARE PARTS

PUMPING ELEMENTS:

- PUMPING ELEMENT **Ø 8** OUTPUT 2,6cc/min Code **7234011**

INFERIOR SHELL WITH ELECTRONIC CARD:

- INFERIOR SHELL WITH ELECTRONIC CARD AND MINIMUM LEVEL Code **8162162**
- INFERIOR SHELL WITH ELECTRONIC CARD WITHOUT MINIMUM LEVEL Code **8162163**

LUBRICANTS

When handling lubricants the following preventive measures are to be taken safeguard health:

- Avoid prolonged, excessive or repeated skin contact with lubrication products and do not breathe in the vapors or fumes.
- Protect the skin by wearing suitable protective garments and accessories (overall, goggles, protective gloves complying to safety standards) or apply a protection products.
- Carefully clean dirty skin using plenty of water and soap.
- Take off and change clothes and shoes soaked in grease.
- Never put grease rags in pockets.

! CAUTION	**It is compulsory, as specified by current standards, to have toxicological charts for all lubricants used. If these are not in your possession, ask your lubricant supplier for them.**

⚠ DANGER	**Lubricants are hightly inflammable. Scrupulously observe the instructions indicated on the containers.**

The disposal of exhausted lubricants is to comply with the following environment protection laws:

- Lubricants can contaminate water and soil. Never pour lubrication products on the ground, into water or into sewers or drains. Disregarding these laws can be prosecuted by law. When using lubricants it is advisable to have an oil agglomerate on hand.
- Carefully recover exhausted lubricants separating mineral based products from synthetic ones. When disposing observe current laws concerning disposal of exhausted oils.

NOTE	**Always use the same type of lubricants when filling for the first time. If this is not possible due to organization or management reasons, use only products that conform to the lubricants table indicating those we recommended.**

CAUTION	**Never mix lubricants of different qualities, since they composition and the additives contained in them are not the same.**

If is foreseen that a different type of lubricant will have to be used, check first that the two products are compatible. If in doubt the lubricant used up to that point should be completely empties and removed by thorough washing.

LUBRICANTS CLASSIFICATION

Table 1-2 indicates the average viscosity value in cSt a 40 °C, the minimum to maximum range of viscosity and the ISO symbol.

Table 1.2 - AVERAGE VALUE OF VISCOSITY

VISCOSITY AVERAGE VALUE (cSt)	VISCOSITY RANGE (cSt)		TYPE OF OIL
	Min.	Max.	
2,2	1,98	2,42	LIGHT
3,2	2,88	3,52	
4,6	4,14	5,06	
6,8	6,12	7,48	
10	9	11	
15	13,5	16,5	
22	19,8	24,2	
32	28,8	35,2	
46	41,1	50,6	
68	61,2	74,8	
100	90	110	
150	135	165	
220	198	242	HEAVY
320	288	352	
460	414	506	
680	612	748	
1000	900	1100	
1500	1350	1650	

Table 1.3 - AVERAGE VALUE OF VISCOSITY

NLGI GRADE	PROCESSED PENETRATION ASTM (1/10 mm)	TYPE OF GREASE
000	445 - 475	FLUID
00	400 - 430	
0	355 - 385	
1	310 - 340	SOLID
2	265 - 295	
3	220 - 250	
4	175 - 205	
5	130 - 160	
6	85 - 115	

NLGI National Lubricating Grease Institute

ASTM American Soccety Testing and Materials

WARRANTY

For any constructive and material defects, Nexoil guarantees its products for a maximum of 12 months from the date of delivery.

The warranty covers up to a maximum of 18 months if the installation is made more than 6 months after the date of delivery.
Parts subject to normal wear and tear are not covered by warranty. In the event of a malfunction, report to Nexoil the defect found, product code, serial number (if any), delivery date, other installation date that may be used to manage the report.

The Nexoil will provide telephone or on-site support depending on the situation or it will communicate the return authorization number (RNC) for the return of the item. In the latter case, Nexoil reserves the right to choose between repair and replacement.

In case of warranty still valid, the particular will be, free of charge, repaired or replaced. If the returned product is not defective, Nexoil can decide whether to charge the customer for the costs incurred. Damages, injuries or costs deriving from product defects are excluded from the warranty.

The warranty terms of Nexoil products are understood to be implicitly accepted when the product is purchased.

Annulment warranty

The warranty decade when:

- The product presents damages due to improper use, improper installation and use different from the intended one.
- The product presents tampering and / or modifications made without the written authorization of Nexoil srl.

CONFORMITY CE DECLARATION

Brands Incorporated by

FLUID SYSTEMS MANUFACTURING

DICHIARAZIONE DEL FABBRICANTE

DECLARATION BY THE MANUFACTURER

Ai sensi dell'allegato II. B – della Direttiva 2006/42/CE sulle Macchine
(Macchine destinate all'incorporazione in altre macchine o linee)
In accordance to the annex II. B – Directive 2006/42/CE – Machinery (Machinery for incorporation into other machines or lines)

NEXOIL s.r.l.

Dichiara sotto la propria responsabilità che il prodotto denominato:
Declares under its own responsibility that the product named:

Descrizione: *Description*:	OKLUB II – Pompa Elettrica a linee multiple
Codice articolo: *Item Number*:	6014xxx
Matricola: *Serial Number*:	xxxxxxx yy / zz

È conforme alle disposizioni legislative Nazionali che traspongono le seguenti Direttive CE:
is in conformity with Nation laws that transposing the following EC Directives:

- Direttiva Macchine 2006/42/CE.
- Direttiva Bassa Tensione 2006/95/CE.
- Direttiva Compatibilità Elettromagnetica 2004/108/CE

AVVERTENZA IMPORTANTE!

È vietato mettere in servizio il prodotto oggetto della presente dichiarazione, prima del completamento e/o incorporamento, in totale conformità alle disposizione della Direttiva Macchine 2006/42/CE.

IMPORTANT WARNING!

It is forbidden to operate the product object of this declaration before to the completion and/or building in in full compliance with the Machinery Directive 2006/42/EC.

Avigliana, il 20/06/2024

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