

# **PEGPEO** 5N-10N-25N-210N

pumps for progressive systems







## TABLE OF CONTENTS

TABLE OF CONTENTS	2	PEG-PEO 25
Applications and operation	3	Electric moto
Technical data		PEG-25N
		Overa
Operation	4	PEG-210N
Tank	4	Overa
		PEO-25N
PEG-PEO 5N/10N/SM		Overa
Electric motor features	5	PEO-210N
PEG-5N	6	Overa
Overall dimensions (PEG-5N)	7	
PEG-5N/SM	8	PEG-MI with
PEG-10N	9	Hydraulic mo
Overall dimensions (PEG-10N)	10	PEG-MI
PEG-10N/SM	11	Overa
PEO-5N	12	
Overall dimensions (PEO-5N)	13	Accessories
PEO-5N/SM	14	Greas
PEO-10N	15	Fixed
Overall dimensions (PEO-10N)	16	Powe
PEO-10N/SM	17	Adjus
		Joints

18
19
20
21
22
23
24
25
26
27
28
29
2.4
31
31
32
32
35
36

# CE

All ILC products must only be used for their intended purposes, as specified in this brochure and in all instructions. If the product is supplied together with user instructions, the user is required to read them and comply with them. Not all lubricants are suitable for centralised lubrication systems. ILC lubrication systems or relative components cannot be used together with gas, liquid gas, pressurised gas in solution and liquids with vapour pressure exceeding the normal atmospheric pressure (1013 bar) by more than 0.5 bar, maximum temperature permitted. Any type of dangerous materials, in particular those classified as such by European Community Directive (EC) 67/548/EEC, Article 2 (2), can only be used in ILC centralised lubrication systems or relative components upon consultation with ILC and after having received written approval by the company.

### **PEG-PEO**

### Description

PEG/PEO 5N/10N are ideal for automatic lubrication of all types of industrial machines. Together with the DPL, DPX and DMX progressive dividers, they can lubricate over 300 points with a single pump.

Technical data				
Number of outlets	from 1 to 3			
Flow rate per cycle with fixed pumping element	0.16 cc			
Flow rate per cycle with adjustable pumping element	0.01 - 0.16 cc			
Suitable lubricants	Grease up to a max consistency of NLGI 2 Mineral oils 50-1500 cSt			
Maximum operating pressure	300 Bar (4200 PSI)			
Reservoir capacity	5 kg or 10 kg (PEG) 5 or 10 L (PEO)			
Temperature	from - 30 °C to + 80 °C			
Delivery fitting	1 / 4" G			

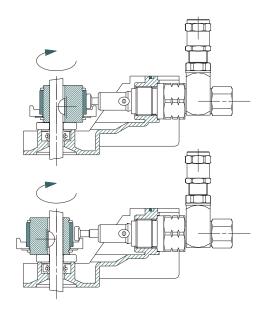
PEG electric levels	
Power supply voltage	250 V AC, 125 V DC
Absorption	5 A (250 V AC), 0.4 A (125 V DC)
Protection rating	IP65
Resistive	Load

PEO electric levels			
Power supply voltage	250 V AC, 200 V DC		
Power	50 W		
Protection rating	IP65		
Resistive	Load		
Absorption	1.5 A		



## **PEG-PEO**

#### Operation



The PEG/PEO 5N/10N/25N pumps have been designed for intermittent or continuous operation and provide pre-programmed lubrication cycles according to the applications.

A gearmotor and a motor control an internal cam that operates up to 3 pumping elements mounted externally.

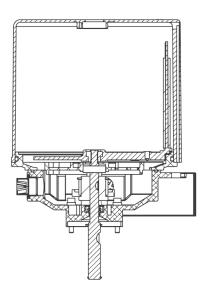
Each pumping element is equipped with an adjustable pressure relief valve capable of protecting the pump and the elements from overpressure.

It is possible to convey the flows of a second and third pumping element into a single outlet for a greater flow rate.



**Installation** The pumps must be mounted vertically by means of the fixing bracket integrated in the pump body.

#### Tank



The tank is made of metal. It has a capacity of 5/10 KG (PEG) and 5/10 L(PEO) and, upon request, can be provided with minimum level control.

The pumps can operate at a maximum recommended pressure of 350 bar with a maximum flow rate output of 0.16 cc/cycle. The standard setting is 250 bar.

The internal shaft is coupled to a spatula device in the tank of the pump in order to ensure continuous intake of the pumping elements, also with grease having a consistency of NLGI 2 and an ambient temperature of -30 °C.



#### Motor for PEG-PEO 5N and 10N pumps



The PEG-PEO series electric pumps have a standard configuration that has a three-phase motor. It is possible to supply single-phase motors 115 VAC, 230 VAC 50/60 Hz or motors with special voltages.

For orders with motors of different voltages, add the voltage value to the relative code, for example **90.880.5** becomes **90.880.5.230**.

90 W

IP55

S1

Class F

Mec56

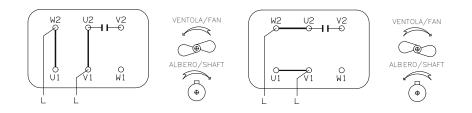
B14

Continuous

Three-phase		A94.150053	General features
Power supply voltage	Frequency	Absorption	Power
220-240/380-420	50 Hz	0.64–0.74/0.37-0.46 A	Protection rating
254-280/440-480	60 Hz	0.64–0.74/0.37-0.46 A	Service
DELTA CONNECTION	CT10.0		Insulation
H2 U2 V2			Construction shape
UI VI VI VI VI 22	LTA CONNECTION FOR:	V2   STAR CONNECTION FOR:     HI   380-420 V 50 Hz     440-480 V 60 Hz	Size

The three-phase motor is supplied with a star electric connector

Single-phase	A94.150054 / A94.150054		
Power supply voltage	Frequency	Absorption	Code
115 V AC	50/60 Hz	2.2 A	A94.150053
230 V AC	50/60 Hz	0.9 A	A94.150054





### PEG-5N

### PEG-5N electric pump

### PEG-5N



PEG-5N is an electric pump for grease equipped with a 5 kg metal tank.

The standard version is supplied with a single outlet. Additional pumping elements must be ordered separately.

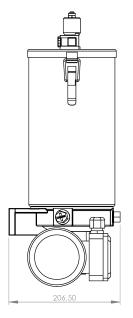
			with ele	ectric level
Ordering code	Reduction ratio	Cycles /1' 50Hz	Cycles /1' 60Hz	Adjustable flow rate
90.880.0	1-30	46	55	NO
90.880.2	1-50	28	33	NO
90.880.5	1-80	17	20	NO
90.898.0	1-30	46	55	yes
90.898.1	1-80	17	20	yes

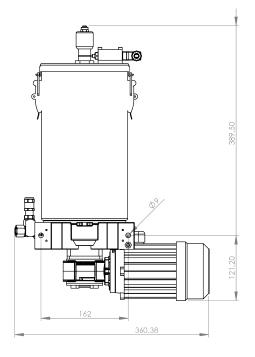
#### with minimum and maximum electric level

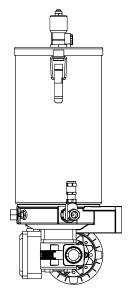
Ordering code	Reduction ratio	Cycles /1' 50Hz	Cycles /1' 60Hz	Adjustable flow rate
90.880.0.HL	1-30	46	55	ПО
90.880.2.HL	1-50	28	33	NO
90.880.5.HL	1-80	17	20	NO
90.898.0.HL	1-30	46	55	yes
90.898.1.HL	1-80	17	20	yes

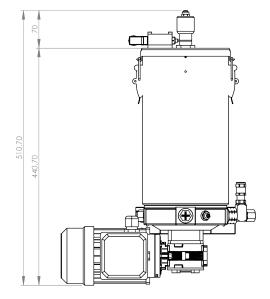
\*Any variations in the price due to the use of different motors than standard must be requested directly from ILC.

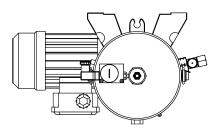
## PEG-5N











## PEG-5N/SM

### PEG-5N/SM electric pump

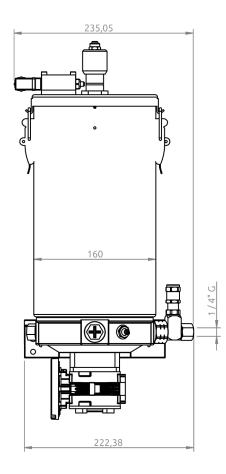
### PEG-5N/SM

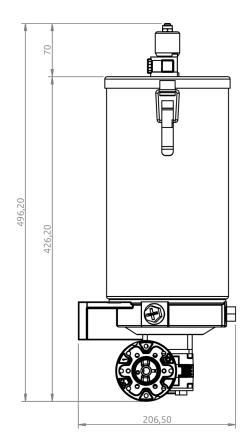


PEG-5N/SM is an electric pump for grease equipped with a 5 kg metal tank, without motor.

The standard version is supplied with a single outlet. Additional pumping elements must be ordered separately.

Ordering code	Reduction ratio	Adjustable flow rate
90.884.0	1-30	NO
90.884.2	1-50	NO
90.884.5	1-80	NO
90.901.0	1-30	yes
90.901.1	1-80	yes





## PEG-10N

### PEG-10N electric pump

PEG-10N



PEG-10N is an electric pump for grease equipped with a 10 kg metal tank.

The standard version is supplied with a single outlet. Additional pumping elements must be ordered separately.

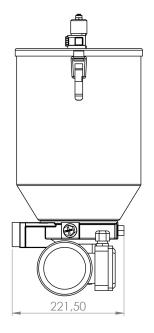
			with ele	ectric level
Ordering code	Reduction ratio	Cycles /1' 50Hz	Cycles /1' 60Hz	Adjustable flow rate
90.922.0	1-30	46	55	NO
90.922.1	1-50	28	33	NO
90.922.2	1-80	17	20	NO
90.923.0	1-30	46	55	yes
90.923.1	1-80	17	20	yes

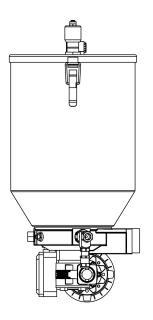
#### with minimum and maximum electric level

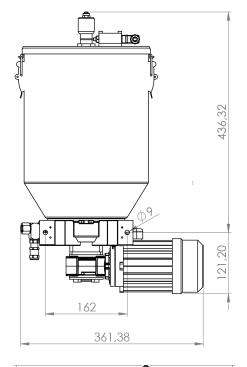
Ordering code	Reduction ratio	Cycles /1' 50Hz	Cycles /1' 60Hz	Adjustable flow rate
90.922.0.HL	1-30	46	55	NO
90.922.1.HL	1-50	28	33	NO
90.922.2.HL	1-80	17	20	NO
90.923.0.HL	1-30	46	55	yes
90.923.1.HL	1-80	17	20	yes

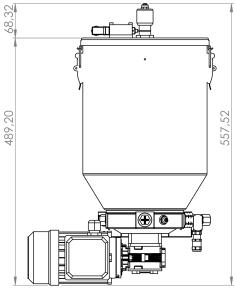
\*Any variations in the price due to the use of different motors than standard must be requested directly from ILC.

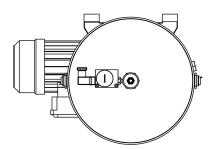
## PEG-10N











## PEG-10N/SM

### PEG-10N/SM electric pump

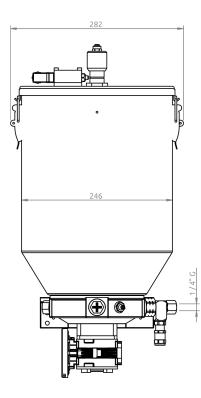
### PEG-10N/SM

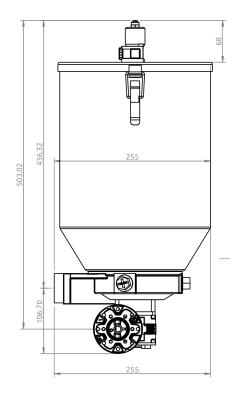


PEG-10N/SM is an electric pump for grease equipped with a 10 kg metal tank, without motor.

The standard version is supplied with a single outlet. Additional pumping elements must be ordered separately.

Ordering code	Reduction ratio	Adjustable flow rate
90.923.5	1-30	NO
90.923.6	1-50	NO
90.923.7	1-80	NO
90.923.8	1-30	yes
90.923.9	1-80	yes





### PEO-5N

### PEO-5N electric pump

### PEO-5N



PEO-5N is an electric pump for oil equipped with a 5L metal tank.

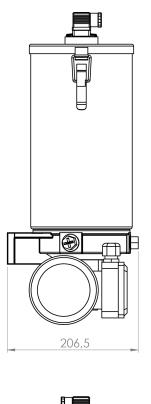
The standard version is supplied with a single outlet. Additional pumping elements must be ordered separately.

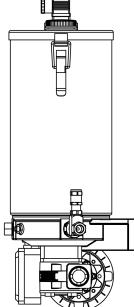
With electric level				
R e d u c - tion ratio	Cycles /1' 50Hz	Cycles /1' 60Hz	Adjustable flow rate	
1-30	46	55	NO	
1-50	28	33	NO	
1-80	17	20	NO	
1-30	46	55	yes	
1-80	17	20	yes	
	tion ratio 1-30 1-50 1-80 1-30	R e d u c r tion ratio C y c l e s /l' 50Hz   1-30 46   1-50 28   1-80 17   1-30 46	R e d u c rition ratio   Cy c l e s /1' 60Hz   Cycles /1' 60Hz     1-30   46   55     1-50   28   33     1-80   17   20     1-30   46   55	

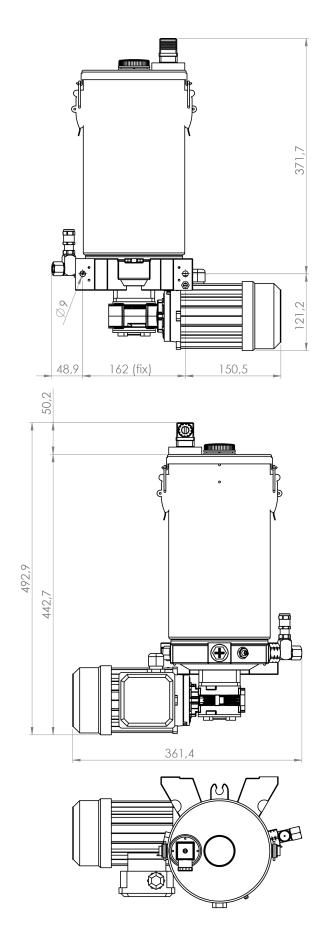
\*Any variations in the price due to the use of different motors than standard must be requested directly from ILC.

### Overall dimensions (PEO-5N)

### PEO-5N







## PEO-5N/SM

### PEO-5N/SM electric pump

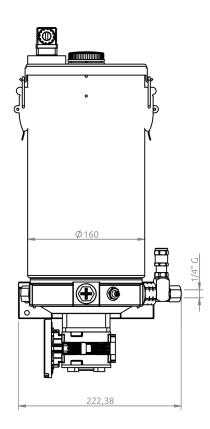
### PEO-5N/SM

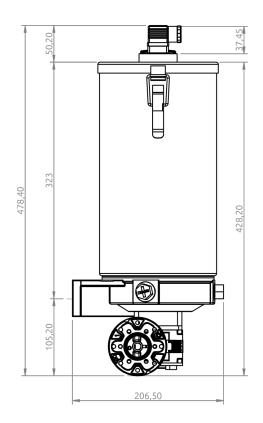


PEO-5N/SM is an electric pump for oil equipped with a 5L metal tank, without motor.

The standard version is supplied with a single outlet. Additional pumping elements must be ordered separately.

Ordering code	Reduction ratio	Adjustable flow rate
90.894.0	1-30	NO
90.894.2	1-50	NO
90.894.5	1-80	ΠΟ
90.907.0	1-30	yes
90.907.1	1-80	yes





## PEO-10N

### PEO-10N electric pump

### PEO-10N



PEO-10N is an electric pump for oil equipped with a 10L metal tank.

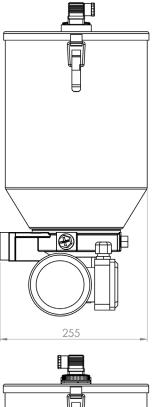
The standard version is supplied with a single outlet. Additional pumping elements must be ordered separately.

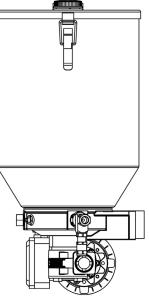
		١	Vith ele	ctric level
Ordering code	R e d u c - tion ratio	C y c l e s /1' 50Hz	Cycles /1' 60Hz	Adjustable flow rate
90.924.0	1-30	46	55	NO
90.924.1	1-50	28	33	NO
90.924.2	1-80	17	20	NO
90.924.3	1-30	46	55	yes
90.924.4	1-80	17	20	yes

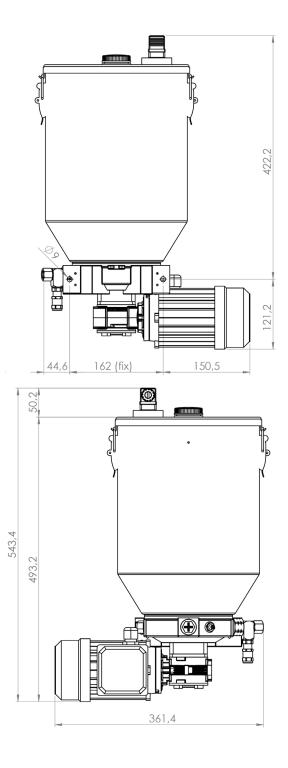
\*Any variations in the price due to the use of different motors than standard must be requested directly from ILC.

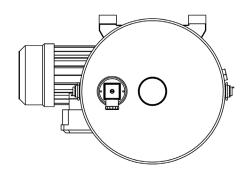
### Overall dimensions (PEO-10N)

## PEO-10N









## PEO-10N/SM

### PEO-10N/SM electric pump

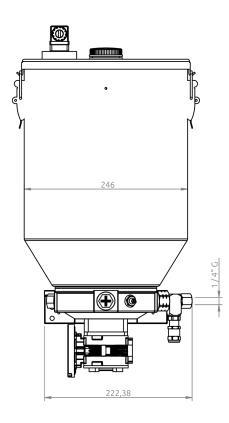
### PEO-10N/SM

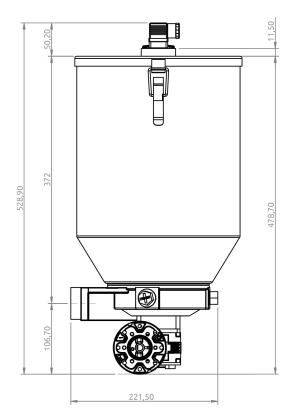


PEO-10N/SM is an electric pump for oil equipped with a 5L metal tank, without motor.

The standard version is supplied with a single outlet. Additional pumping elements must be ordered separately.

Ordering code	Reduction ratio	Adjustable flow rate
90.924.5	1-30	NO
90.924.6	1-50	NO
90.924.7	1-80	NO
90.924.8	1-30	yes
90.924.9	1-80	yes





### Electric motor (PEG-PEO 25N and 210N)



The PEG/PEO 25N/210N electric pump series has a standard configuration of 24V or 12V motor. The electric motor has power of 85 W and 1500 rpm.

24V motor	A94.150150
Power	85 W
Absorption	4.2 A
Service	Continuous S1
Insulation	Class F
Protection rating	IP54
Rpm	1500

12V motor	A94.150341
Power	85 W
Absorption	v8.4 A
Service	Continuous S1
Insulation	Class F
Protection rating	IP54
Rpm	1500



## PEG-25N

### PEG-25N



PEG-25N is an electric pump for grease equipped with a 5L metal tank. The standard version is supplied with a single outlet. Additional pumping elements must be ordered separately.

with electric level			
			24 V
Ordering code	Reduction ratio	Cycles /1'	Adjustable flow rate
90.881.0	1-30	46	NO
90.881.2	1-50	28	NO
90.881.5	1-80	17	NO
90.899.0	1-30	46	yes
90.899.1	1-80	17	yes
			12 V
90.887.0	1-30	46	NO
90.887.1	1-50	28	NO
90.887.2	1-80	17	NO
90.887.3	1-30	46	yes
90.887.4	1-80	17	yes

### with minimum and maximum electric level

			24 V
Ordering code	Reduction ratio	Cycles /1'	Adjustable flow rate
90.881.0.HL	1-30	46	NO
90.881.2.HL	1-50	28	NO
90.881.5.HL	1-80	17	NO
90.899.0.HL	1-30	46	yes
90.899.1.HL	1-80	17	yes
			12 V
90.887.0.HL	1-30	46	NO
90.887.1.HL	1-50	28	NO
90.887.2.HL	1-80	17	NO
90.887.3.HL	1-30	46	yes
90.887.4.HL	1-80	17	yes

\*Any variations in the price due to the use of different motors than standard must be requested directly from ILC.

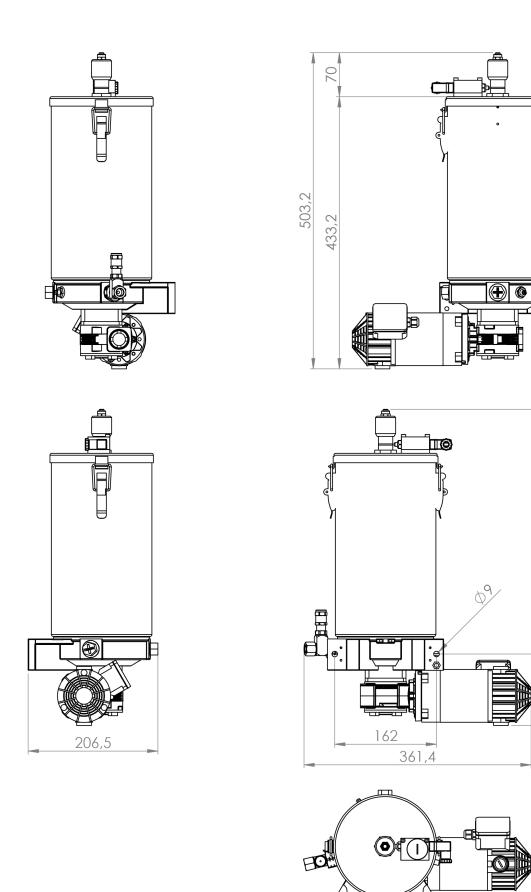
### Overall dimensions (PEG-25N)

### PEG-25N

389,5

113,

โป



### PEG-210N electric pump

## **PEG-210N**

#### **PEG-210N**



PEG-210N is an electric pump for grease equipped with a 10 kg metal tank. The standard version is supplied with a single outlet. Additional pumping elements must be ordered separately.

### with electric level

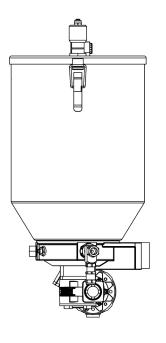
			24 V
Ordering code	Reduction ratio	Cycles /1'	Adjustable flow rate
90.881.6	1-30	46	NO
90.881.7	1-50	28	NO
90.881.8	1-80	17	NO
90.899.2	1-30	46	yes
90.899.3	1-80	17	yes
			12 V
90.888.0	1-30	46	NO
90.888.1	1-50	28	NO
90.888.2	1-80	17	NO
90.888.3	1-30	46	yes
90.888.4	1-80	17	yes

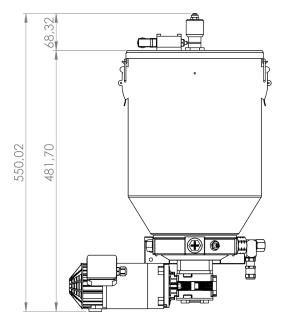
#### with minimum and maximum electric level

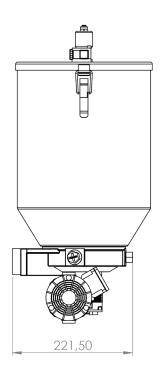
			24 V
Ordering code	Reduction ratio	Cycles /1'	Adjustable flow rate
90.881.0.HL	1-30	46	NO
90.881.2.HL	1-50	28	NO
90.881.5.HL	1-80	17	NO
90.899.0.HL	1-30	46	yes
90.899.1.HL	1-80	17	yes
			12 V
90.887.0.HL	1-30	46	NO
90.887.1.HL	1-50	28	NO
90.887.2.HL	1-80	17	NO
90.887.3.HL	1-30	46	yes
90.887.4.HL	1-80	17	yes

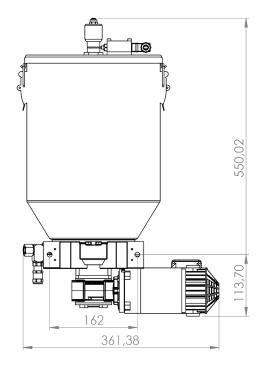
\*Any variations in the price due to the use of different motors than standard must be requested directly from ILC.

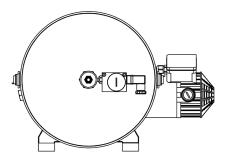
## **PEG-210N**











#### I.L.C. srl - Via Garibaldi, 149 - 20155 Gorla Minore - Italy Phone +39 0331 601697 - Fax +39 0331 602001 - www.ilclube.com - info@ilclube.it

## **PEO-25N**

### PEO-25N



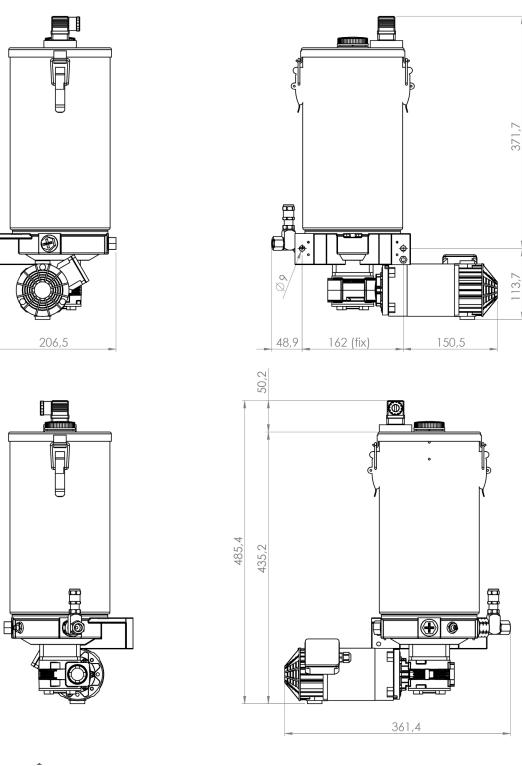
PEO-25N is an electric pump for oil equipped with a 5L metal tank. The standard version is supplied with a single outlet. Additional pumping elements must be ordered separately.

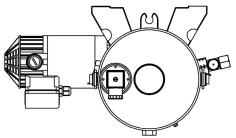
			24 V
Ordering code	Reduction ratio	Cycles /1'	Adjustable flow rate
90.893.0	1-30	46	NO
90.893.2	1-50	28	NO
90.893.5	1-80	17	NO
90.906.0	1-30	46	yes
90.906.1	1-80	17	yes

			12 V
Ordering code	Reduction ratio	Cycles /1'	Adjustable flow rate
90.913.4	1-30	46	NO
90.913.5	1-50	28	NO
90.913.6	1-80	17	NO
90.913.7	1-30	46	yes
90.913.8	1-80	17	yes

\*Any variations in the price due to the use of different motors than standard must be requested directly from ILC.

## **PEO-25N**





## **PEO-210N**

### PEO-210N electric pump

### **PEO-210N**



PEO-210N is an electric pump for oil equipped with a 10L metal tank. The standard version is supplied with a single outlet. Additional pumping elements must be ordered separately.

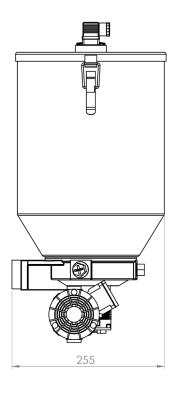
			24 V
Ordering code	Reduction ratio	Cycles /1'	Adjustable flow rate
90.893.6	1-30	46	NO
90.893.7	1-50	28	NO
90.893.8	1-80	17	NO
90.906.2	1-30	46	yes
90.906.3	1-80	17	yes

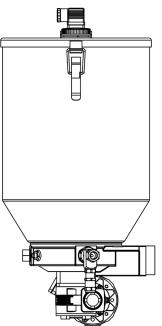
			12 V
Ordering code	Reduction ratio	Cycles /1'	Adjustable flow rate
90.914.0	1-30	46	NO
90.914.1	1-50	28	NO
90.914.2	1-80	17	NO
90.914.3	1-30	46	yes
90.914.4	1-80	17	yes

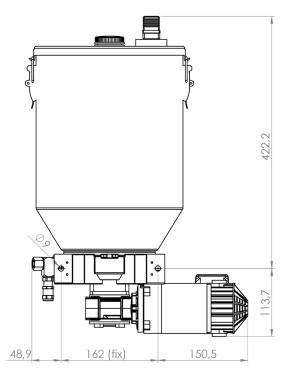
\*Any variations in the price due to the use of different motors than standard must be requested directly from ILC.

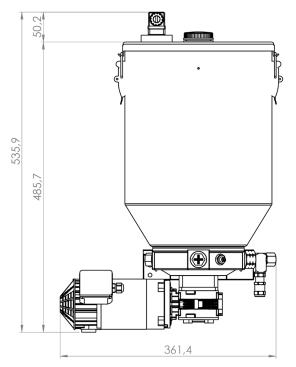
### Overall dimensions (PEO-210N)

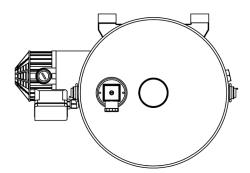
## **PEO-210N**











## **PEG-MI**

### Hydraulic motor features

### Hydraulic motor

### A97.061020



The PEG-PEO series electric pumps can be equipped with a hydraulic motor.

### **General features**

MAX inlet pressure	250 Bar
MIN inlet pressure	10 Bar
MAX continuous back pressure	6 Bar
MAX peak inlet pressure	300 Bar
Speed	from 700 to 5000 rpm
Flow rate per rev	6.5 cc
Minimum flow rate	4.5 L/min.
Maximum flow rate	32.5 L/min.
Displacement	6.50 cc/rev
Torque (theoretic) at 100 bar	8.79 Nm
Power	0.92 kW

#### **Fittings**

### A92.106424



90° aluminium fittings of 3/8". Order 2 fittings for each pump. The fittings are complete with M6x20 screws and O-rings.



### **PEG-MI**

### Electric pumps with hydraulic motor

#### PEG-5N-MI



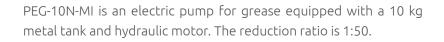
PEG-5N-MI is an electric pump for grease equipped with a 5 kg metal tank and hydraulic motor. The reduction ratio is 1:50.

The standard version is supplied with a single outlet. Additional pumping elements must be ordered separately.

### PEG-10N-MI

#### 90.922.8

90.884.8

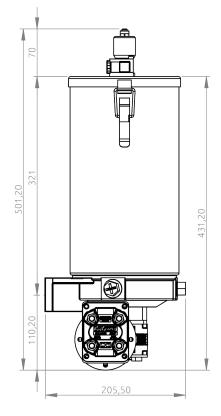


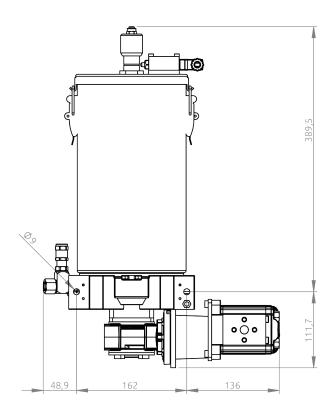
The standard version is supplied with a single outlet. Additional pumping elements must be ordered separately.

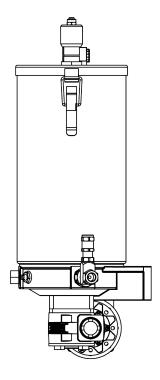


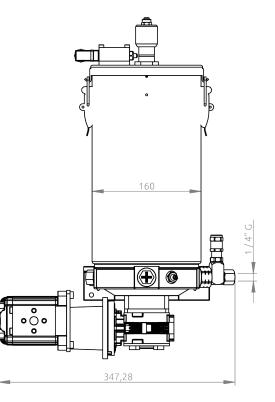
Overall dimensions (PEG-5N-MI)

### **PEG-MI**

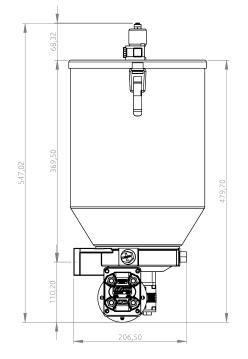


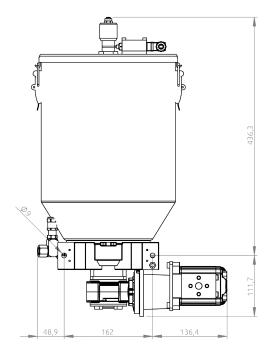


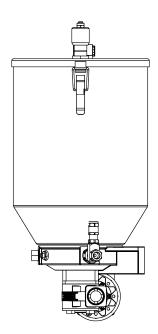


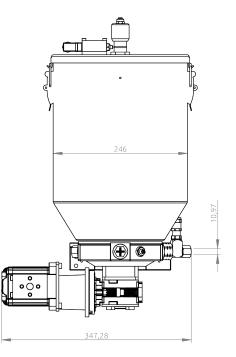


## **PEG-MI**











### Fixed flow rate pumping element

#### **Grease inlet filters**

90.900.0

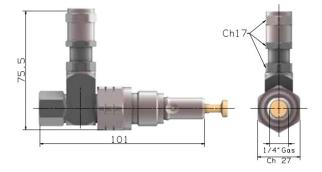


To prevent impurities from entering while the tank is being filled, we recommend applying inlet filters directly on the pump body by unscrewing the needle grease nipple.

#### Fixed flow rate pumping element

All the electric pumps of the Peg series can be equipped, even subsequently, with a 2nd and 3rd pump capable of feeding other main lines or of conveying the delivered lubricant in the same pipe.

To make final use more practical, the delivery connection has been implemented by means of an adjustable 360° joint with an adjustable safety valve inserted to protect the various elements from overpressure.



#### Power supply block

#### 40.BMI.02

40.BMI.01



#### Pressure gauge - Safety valve - Grease nipple

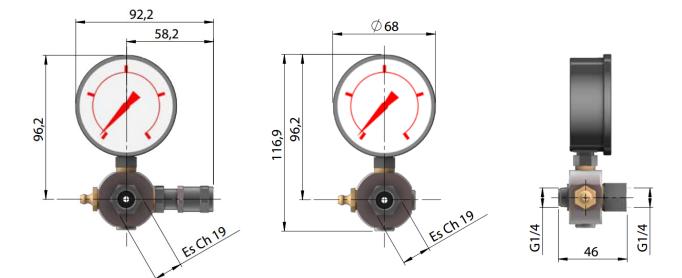
The block is mounted on the delivery line to check the system's operating pressure and to fill the system with a pneumatic pump. The safety valve protects against overpressure.

#### Power supply block



#### Pressure gauge - Grease nipple

The block is mounted on the delivery line to check system operating pressure and the fill the system with a pneumatic pump.



### Fixed flow rate pumping element

40.BMI.03

#### Power supply block

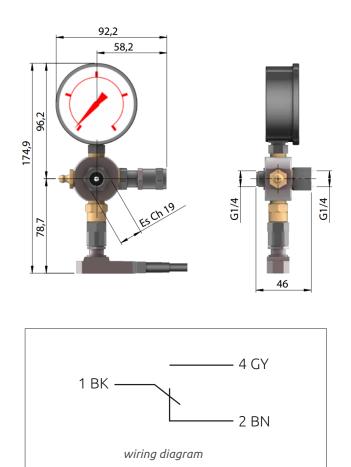


## Pressure gauge - Electromechanical sensor - Grease nipple

The block is mounted on the delivery line to control the system's operating pressure by means of a pressure gauge and to fill the system through a grease nipple with a hand or pneumatic pump.

The safety valve protects the system from overpressure and the electromagnetic sensor is triggered in case of high pressure on the main line.

Technical data	
Voltage	230 V AC - 250 DC
Power	40 W
Absorption	1 A



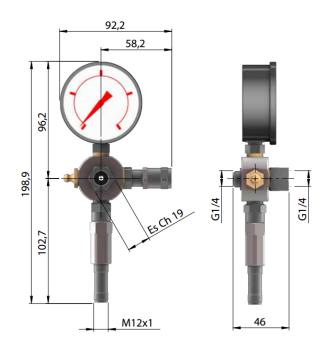
40.BMI.04

#### Power supply block

### Pressure gauge - proximity sensor - grease nipple

The block is mounted on the delivery line to control the system's operating pressure by means of a pressure gauge and to fill the system through a grease nipple with a hand or pneumatic pump.

The safety valve protects the system from overpressure and the electromagnetic sensor is triggered in case of high pressure on the main line.



Sensor technical sheet		
Voltage	6 - 30 V DC	
Output current	Max 200 mA	
Current	< 12 mA	
Temperature	-25° C +70° C	
Protection	IP67	
Sensor body	Stainless steel	

### Adjustable flow rate pumping element

#### Adjustable flow rate pumping element

#### 90.900.3



90.900.3

Contraction of the second seco

90.900.4



068.075011

The pumping element is equipped with two supplementary 1/4" G outlets used to mount accessories.

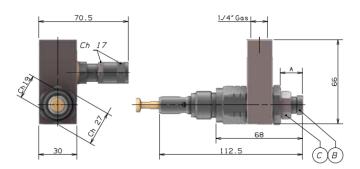
**90.900.3** code for pumping element complete with safety valve. **90.900.4** pumping element without safety valve. To add an external safety valve, order code **068.075011**.

To change the nominal flow rate of the pump, the lock nut (C) must be loosened and the adjusting screw (B) turned clockwise and anticlockwise respectively to reduce or increase the amount of lubricant supplied.

Once you have set the desired value, it is extremely important to tighten the lock nut again (C).

А	Flow rate/cycle	Percentage
23.6	0.16 CC	100%
22.5	0.12 CC	75%
21	0.08	50%
19.5	0.04	25%
18.5	0.01	6%
17.5	0.00	0%

Important! 'A' must not exceed 23.6 mm



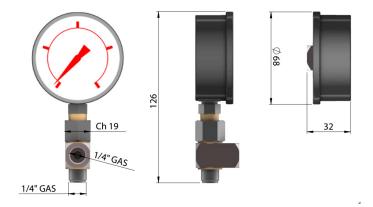
#### Two-way joint with pressure gauge

A70.093523



#### Pressure gauge

The block is mounted on the delivery line to control system operating pressure by means of the pressure gauge.



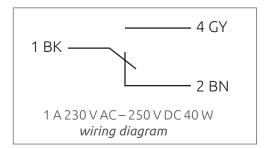
#### Three-way joint with pressure gauge

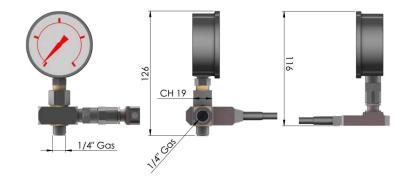
#### A70.093525



#### Pressure gauge - Electromechanical sensor

The block is mounted on the delivery line to control system operating pressure by means of the pressure gauge and is also equipped with an electromechanical sensor to check for high pressure on the main line.





Three-way joint with pressure gauge

#### A70.093524

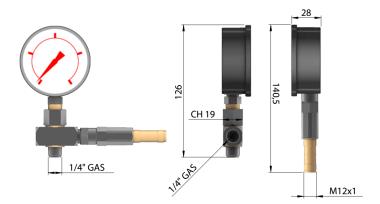


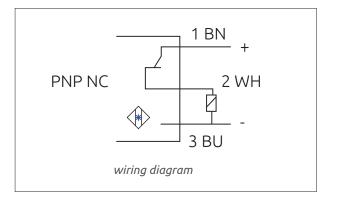
#### Pressure gauge - proximity sensor

The block is mounted on the delivery line to control system operating pressure by means of the pressure gauge and is also equipped with a proximity sensor to check for high pressure on the main line

#### Sensor technical sheet

Voltage	6 - 30 V DC
Output current	Max 200 mA
Current	< 12 mA
Temperature	-25° C +70° C
Protection	IP67
Sensor body	Stainless steel





### 2-way 1/4" GAS joint

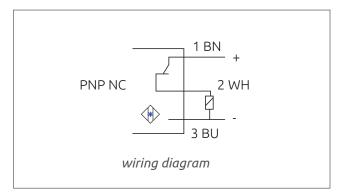
A70.093543

A70.093544



2-way 1/4" Gas joint with 250 bar proximity overpressure sensor

The joint is provided with a proximity sensor to control any high pressure in the main line.

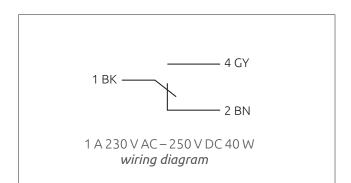


### 2-way 1/4" GAS joint



#### 2-way 1/4" Gas joint with electromechanical overpressure sensor

The joint is provided with an electromechanical sensor to control any high pressure in the main line.



**I.L.C. srl** - Via Garibaldi, 149 - 20155 Gorla Minore - Italy Phone +39 0331 601697 - Fax +39 0331 602001 - www.ilclube.com - **info@ilclube.it** 

