

PEGPEO 5N-10N-25N-210N

pumps for progressive systems







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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





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**.

Three-phase		A94.150053	Ge
Power supply voltage	Frequency	Absorption	Pov
220-240/380-420	50 Hz	0.64–0.74/0.37-0.46 A	Ргс
254-280/440-480	60 Hz	0.64–0.74/0.37-0.46 A	Ser
DELTA CONNECTION	STAR (Ins
W2 O U2 O V2 O			Co
	ELTA CONNECTION FOR: 20-240 V 50 Hz 54-280 V 60 Hz	WI STAR CONNECTION FOR: 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



General features			
Power	90 W		
Protection rating	IP55		
Service	Continuous S1		
Insulation	Class F		
Construction shape	B14		
Size	Mec56		

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 electric 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	NO
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 electric 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	C y c l e s /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 C y c l e s 1/1' 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	ПО
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	ПО
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

113,7





20

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.

Overall dimensions (PEG-210N)

PEG-210N











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





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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











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.

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.





















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

Power supply block

Pressure gauge - Electromechanical sensor - Grease nipple

40.BMI.03

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





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		



40.BMI.04

Adjustable flow rate pumping element

Adjustable flow rate pumping element

90.900.3



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**.

The pumping element is equipped with two

90.900.3



90.900.4



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.

