

GE41

FLUID GREASE Lubrication Unit NLGI 00-000

Single line system

148.000.000

Application

As an intermittent operation unit to feed volumetric dosing meters in single-line systems.

Operation

It can be operated as follows:

- -Without control device. Programmed from the machine's automation (plc, automaton, etc...).
- With control device (only with 3 litres tank).

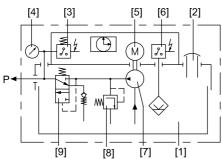
In units with pressure switch, the pump's operation time is the pressure switch signal + 10 seconds.

The correct operation of pressure and decompression cycles is checked from the control and monitoring device..

Depending on the control system, the units can be equipped with different accessories for monitoring and controlling the operation:

- -Manual pushbutton (intermediate lubrication)
- -Electrical level (minimum level control in the tank)
- -Pressure gauge (visual control of the pressure cycle)
- -Green light (voltage input)
- -Red light (alarm or system fault)

Hydraulic diagram



1-Tank

2-Filling cap

3-Pressure switch

4-Pressure gauge

5-Electric motor

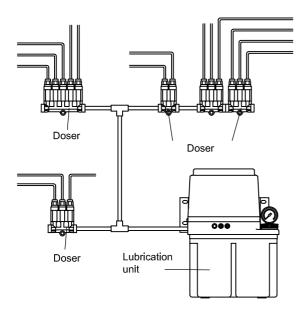
6-Level switch

7-Gear pump

8-Pressure limiting valve

9-Decompression valve

P = Pressure outlet



Technical characteristics

Tank	3-6 litres in plastic
Degree of protection	

Gear numn

Jour Parrie	
Lubricant	up to fluid grease NLGI 00-000
Flow	
Working pressure	40 bar
	+10°C ÷ +40°C

Motor

Voltage	115V~	230V~	230/400V~	24Vdc
Frequency	50/60Hz	50/60Hz	50/60Hz	
Power (50Hz)	100W	100W	100W	55W
Consumption (50Hz)	0,6A	0,3A	0,5A	2,5A
rpm (50Hz)	2800	2800	2800	2800

Service mode	S3 20% *
Maximum operation time	
Máximum cycles/hour	

* 20% Is the ratio between the operation time and the stop time. E.g. 1 min of operation time corresponds to 5 min stop time



Safety measures must be taken: disconnect the main switch before carrying out connection coupling.

Pressure switch

Without pressure	Open
Breakdown voltage	
Connection current	
Maximum contact load	30VA
Connection pressure	14 bar

Electric level switch

Type of contact	Capacitive sensor
Voltage	10 ÷ 30Vdc
Connection	max. 220mA
Function	open with lubricant
	low level



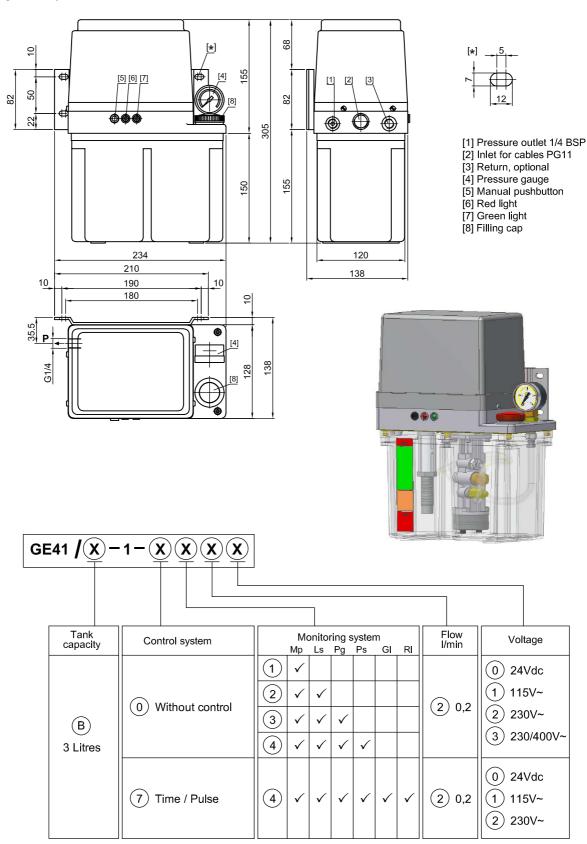
intza@intza.com

GE41/B 3L Plastic

148.000.000

FLUID GREASE Lubrication Unit NLGI 00-000

Single line system



GI = Green light RI = Red light

Only units whit control have green and red lights:
-green light means unit under voltage

⁻red light means alarm

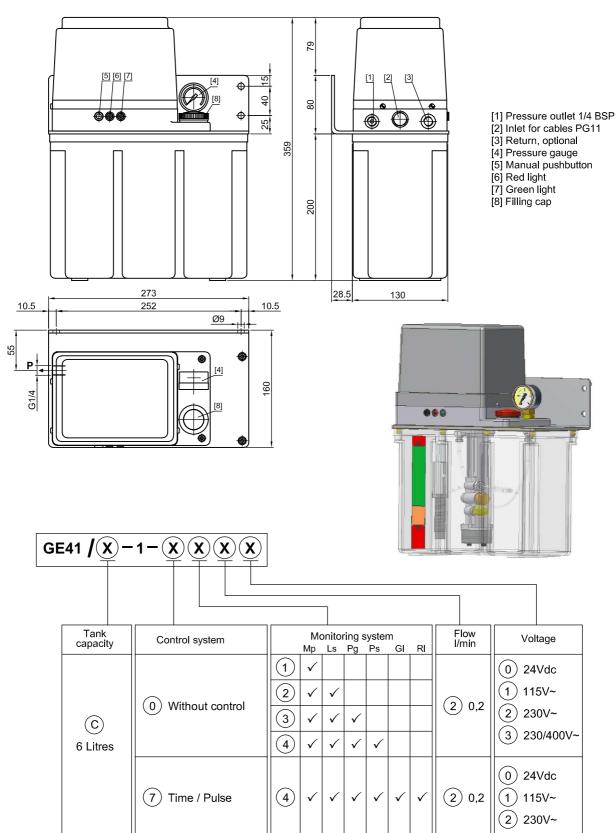
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GE41/C 6L Plastic

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FLUID GREASE Lubrication Unit NLGI 00-000

Single line system



Mp = Manual pushbutton Ls = Level switch Pg = Pressure gauge Ps = Pressure switch

GI = Green light RI = Red light

Only units whit control have green and red lights:
-green light means unit under voltage

-red light means alarm

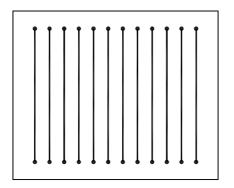


Connection plate for units without control

EF01/0-2

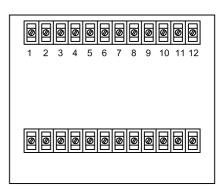
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For application to connect the units' internal signals on the lower part with the control sources on the upper part.

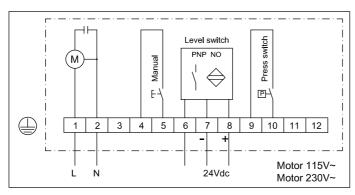


Upper part

Lower part



Electrical connection diagram



All the contacts in this diagram are shown in resting position.

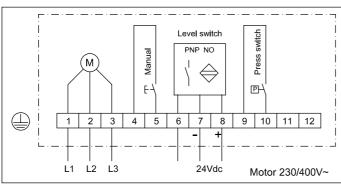
At the electrical level (tank without oil) the minimum level contact is open.

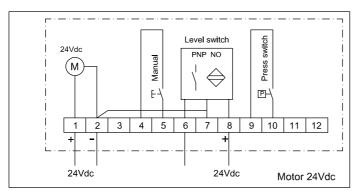
Electrical level \Rightarrow Tank without oil Pressure switch \Rightarrow Circuit without pressure Manual pushbutton \Rightarrow Not pressed



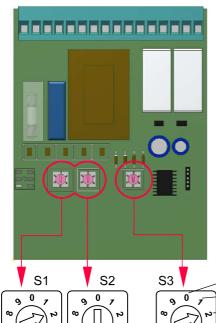
Caution!!!

Safety measures must be taken: disconnect the main switch before carrying out connection coupling.









Control and Monitoring device

24Vdc ⇒ **EE03/C-1-0**

115V~ ⇒ **EE03/C-1-1**

230V~ ⇒ **EE03/C-1-2**

-TIME OR PULSES-

450.500.000

-PAUSE time programmable through the selector by time or pulses (electrical signals emitted during the working time of the machine)

-OPERATION time: pressure switch signal +10 seconds. It depends on the flow and number of points within the installation. A maximum time length of 3 minutes has been set after which the alarm will be activated.

Device configuration:

- Select the desired pause mode through the selector S3: Time / Pulses.
- Select the value of this pause through selectors S1 and S2 (Tens and Units).

Application examples:

Pause in seconds
Pause in minutes
Pause in hours
Pause in pulses

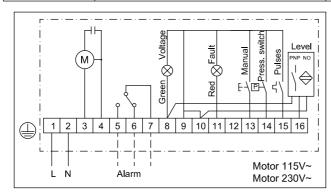
Pause in pulses x10

-				•
	S1	S2	S3	One lubrication cycle every:
	9	0	0	90 seconds
ĺ	3	5	1	35 minutes
	0	1	2	1 hour
	8	0	3	80 pulses
	7	5	4	75 pulses (x10)=750 pulses

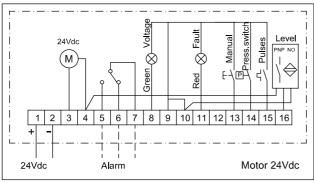
Monitoring system

If the alarm is activated during start-up, the red led will light up indicating the relevant fault:

Alarm type	m type It indicates To cancel the fault	
Fixed red led	1- Minimum level of oil in the tank 2- Level switch fault	- Fill the tank and press the manual pushbutton Check the level switch.
2 flashes of red led	Pressure fault (not enough pressure after motor being in operation for 3 minutes)	- Check there are no leaks in the circuit Check pressure switch status.
3 flashes of red led	Device configuration fault	Check that: - The pause mode selector is not out of range Selectors s1 and s2 are not at "0" at the same time



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All the contacts within this diagram are shown at resting position.

At the electrical level (tank without oil) the minimum level contact is open.

Electrical level ⇒ Tank without oil

Pressure switch ⇒ Circuit without pressure

Manual pushbutton ⇒ Not pressed

Heat protector only incorporated to single-phase motors 115V~ y 230V~.

If the current is cut as a result of abnormal overheating this device is resetable (it is automatically reactivated when the temperature returns back to normal) therefore it is not necessary to carry out any work to the motor.



CAUTION!!!

Safety measures must be taken: disconnect the main switch before carrying out connection coupling.