

GE71

OIL Lubrication unitSingle line system

Application

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

Operation

It can be operated as follows:

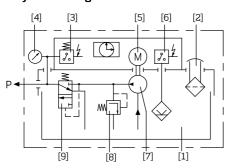
- -Without control device. Programmed from the machine's automation (plc, automaton, etc...)
- -With control device (only with 3 litres tank)

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

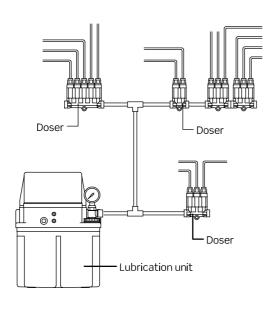
Depending on the control system, they can be equipped with different accessories for monitoring and controlling the operation:

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

Hydraulic diagram



- 1- Tank
- 2- Filling cap-filter
- 3- Pressure switch
- 4- Pressure gauge
- 5- Electric motor
- 6-Level switch
- 7-Gear pump
- 8- Pressure limiting valve
- 9-Relief valve
- P = Pressure outlet



Technical characteristics

Tank	2-3 litres in plastic
Degree of protection	IP54

Gear pump

Lubricant	Mineral or synthétic oil
	30 ÷ 1500 cSt
Flow	0,1-0,2 l/min
Working pressure	30 bar
Working temperature	+10°C ÷ +40°C

Motor

Voltage	115V~	230V~	24Vdc
Frequency		50/60Hz	
Power (50Hz)		115W	55W
Consumption (50Hz)	0,8A	0,5A	2,5A
rpm (50Hz)	2800	2800	2800

Service mode	S3 20% *
Maximum operation time	
Maximum 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

Pressure switch

Without pressure	Open
Breakdown voltage	42V
Connection current	2.5A
Maximum contact load	
Connection pressure	
201112321311 p. 22241 311111111111111111111111111111111	

Electric level switch

Type of contact	Reec
Voltage	
Connection	
Power breakdown	
Function	see diagram

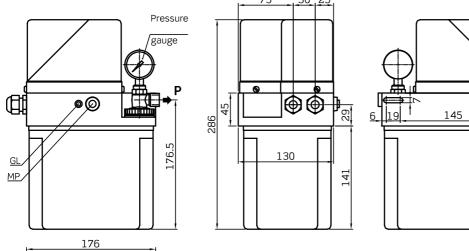
Diagram representad with tank **without** oil

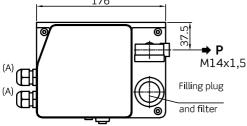




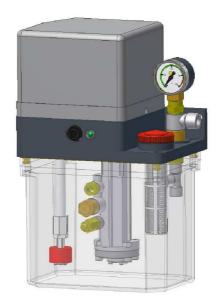
OIL lubrication unit Single line system

GE71/A 2L Plastic 132.210.000



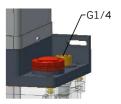


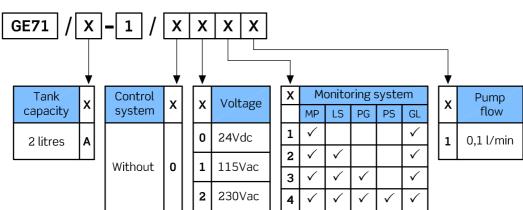
P = Pressure outlet M14x1,5A = Inlet for electric cables Ø5...Ø10 Mp = Manual pushbutton Gl = Green light



units without pressure gauge, the outlet is G1/4 according below figure

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MP = Manual pushbutton LS = Level switch

PG = Pressure gauge

PS = Pressure switch

GL = Green light

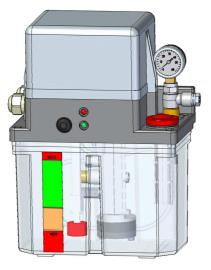
The green light is switched on only during the motor's running time



OIL lubrication unit Single line system

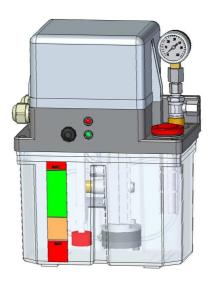
GE71/B 3L Plastic

132.220.000

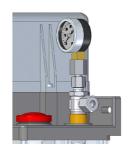


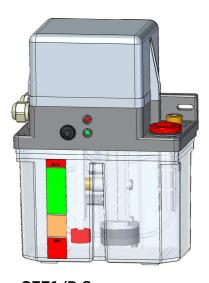
GE71/B-1



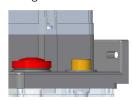


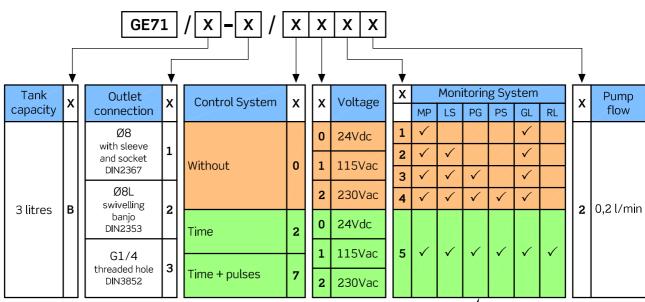
GE71/B-2 Pressure outlet by banjo fitting for Ø8L pipe according on DIN 2353





GE71/B-3 Pressure outlet by G1/4 threaded hole according on DIN 3852





In the units without control the green light is switched on only during the motor's running time. In the units with control the green light remains switched on while the unit is under voltage

GE71/B-3 model doesn't includes pressure gauge-

MP = Manual pushbutton

LS = Level switch

PG = Pressure gauge

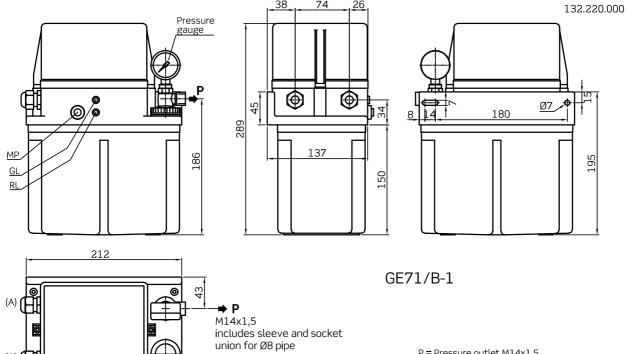
PS = Pressure switch

GL = Green light RL = Red light



OIL lubrication unit Single line system

GE71/B 3L Plastic



union for Ø8 pipe

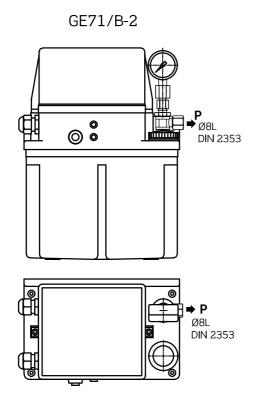
P = Pressure outlet M14x1,5

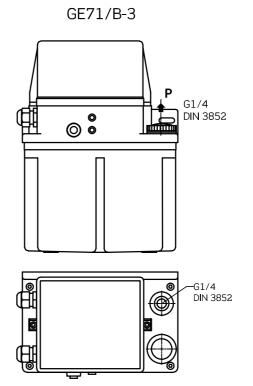
A = Inlet for electric cables Ø6...Ø12

MP = Manual pushbutton

GL = Green light

RL = Red light





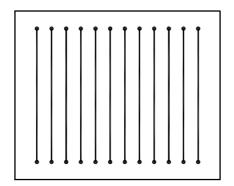


Connection plate for units without control

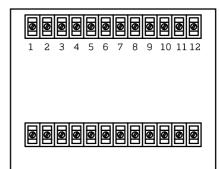
EF01/0-2

451060000

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

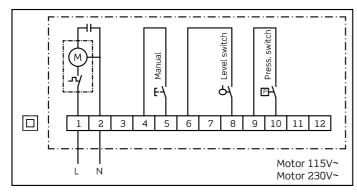


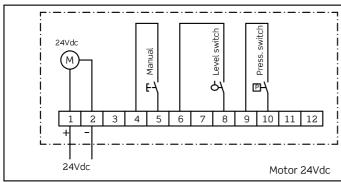
Upper part



Lower part

Electrical connection diagram





All the contacts on this diagram are indicated at rest position.

On the electrical level (tank without oil) the minimum level contact is activated by the float

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

Heat protector only incorporated in single-phase motors 115V~ and 230V~

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



CAUTION!!!

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

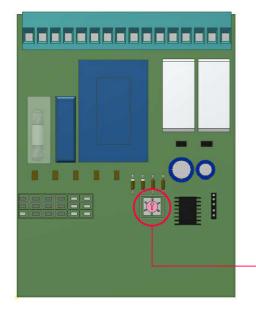


Control and Monitoring device

-TIME-

24Vdc \Rightarrow EE02/C-1-0 115V~ \Rightarrow EE02/C-1-1 230V~ \Rightarrow EE02/C-1-2

450.400.000

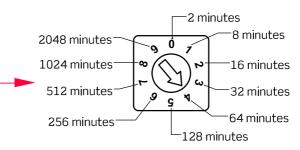


-PAUSE time programmable by time via the selector

-OPERATION time: pressure switch signal + 10 seconds. Depends on the flow and number of points in the installation.

A maximum duration of 3 minutes has been set, after which the alarm will be activated.

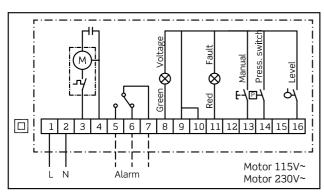
Configuring the device: select the desired pause time value by turning the selector in the direction of the corresponding number.

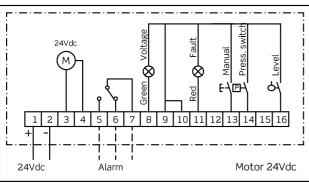


Monitoring system

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

Type of alarm	Indicates	To cancel the 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 in operation for 3 minutes)	-Check there are no leaks in the circuit -Check pressure switch status	





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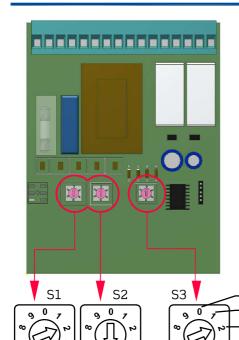


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(Tens)





Selector S2

(Units)

Control and Monitoring device

24Vdc \Rightarrow EE03/C-1-0 115V~ \Rightarrow EE03/C-1-1

230V~ ⇒ EE03/C-1-2

450.500.000

-TIME OR PULSES-

-PAUSE time programmable via the selector by time or pulses (electrical signals emitted during a machine's working rhythm)

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

Configuring the device:

Pause en seconds Pause en minutes

Pause en hours Pause en pulses Pause en pulses x10

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

Application examples:

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

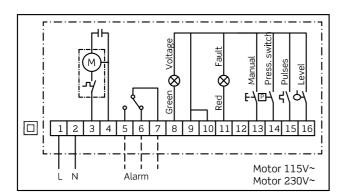
Monitoring system

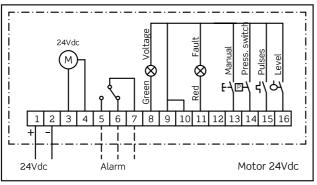
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Selector S3

(Pause mode)

in the damin's delivated daming start up, the red ted with light up indicating the relevant radic.			
Type of alarm	Indicates	To cancel the fault	
I Lived red led I		-Fill the tank and press the manual pushbutton -Check the level switch	
2 flashes of red led	Pressure fault (not enough pressure after motor 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 -The units and tens selectors are not at "0" at the same time	





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