INTERLUBE

Leaders in Lubrication Solutions

LUBEPLUS GX Centralised Lubrication System
Multi-Industry Applications

Interlube Systems Ltd - maximising industrial performance world-wide...

technical specifications

LUBEPLUS GX ELECTRICALLY OPERATED SINGLE LINE SYSTEM

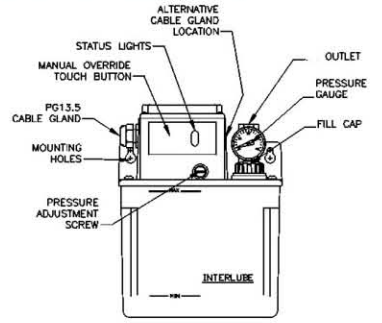
LUBEPLUS GX has been designed to operate with a positive displacement unit (PDU) or with metering flow unit systems. The lubricator is available with a wide combination of condition monitoring features and a choice of 'with' or 'without' microprocessor control.

The microprocessor provides the option of timed or impulse count control and automatically monitors pressure failure and low level condition in the reservoir.

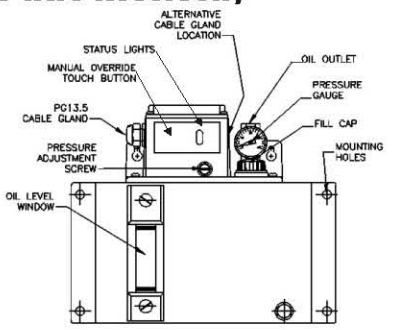
A lubricator without microprocessor enables the user to control the lubrication cycle from the parent machine. A range of condition monitoring features is available as an option.

Lubrication points in a typical LUBEPLUS GX system may be fitted with flow units used with oil or the more precise Interlube Positive Displacement Units (PDU's) which handle fluid greases and oil.

GX (3 litre Reservoir)

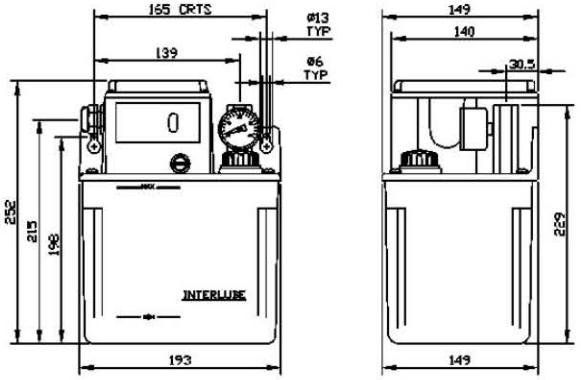


GX (6 litre Reservoir)

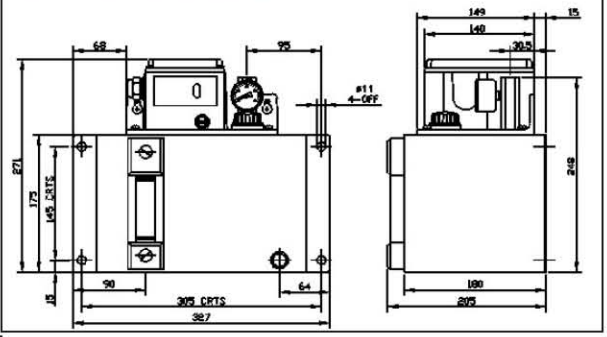


GX DIMENSIONS

3 LITRE RESERVOIR



6 LITRE RESERVOIR



TECHNICAL DATA

ELECTRICAL DETAILS	
Voltage/rating:	230/240 VAC or 110/120 VAC at 50/60 Hz
Motor Type:	Open frame shade pole motor
Motor R.P.M.:	2500 at 50 Hz / 3000 at 60 Hz
Electrical Connection:	Terminal block
Electrical Entry:	Pg 13.5
Float Switch	
Voltage/rating:	150VAC / 200VDC 0.7ADC
Mode	Normally Closed
Pressure Switch	
Voltage/rating:	42V Max, 100V A.
LUBRICATOR DETAILS	
Pump Output Volume:	110 cc/min at 50 Hz 130 cc/min at 60 Hz
Ambient Temperature:	40° C
Recommended Lubricants:	15-480 cSt Oil and NLGI000 fluid grease
Operating Pressure:	3 - 25 bar
Oil Temperature:	60° C
Reservoir Capacity:	3 or 6 litre
Weight (full):	Approx. 6 kg
Protection Class:	IP54
Pressure Switch Settings	
Flow Units:	3 bar
PDU's:	12 bar
Pressure Gauge:	0 - 40 bar

LUBEPLUS GX with controls

The standard unit is supplied with an integral controller, which allows selection of either a TIMED MODE of operation or a COMBINATION MODE of time period and impulse count delay period. Selection of modes and settings is achieved via a simple DIL switch.

CONTROL SELECTIONS

8 Timed motor ON settings		16 Timed motor delay options		16 Pulse count options	
12 seconds	36 seconds	2 minutes	60 minutes	20 pulses	2600 pulses
16 seconds	44 seconds	4 minutes	75 minutes	100 pulses	3000 pulses
20 seconds	52 seconds	8 minutes	90 minutes	500 pulses	3400 pulses
28 seconds	60 seconds	10 minutes	120 minutes	750 pulses	3800 pulses
		12 minutes	180 minutes	1000 pulses	4200 pulses
		15 minutes	240 minutes	1400 pulses	4600 pulses
		30 minutes	360 minutes	1800 pulses	5400 pulses
		45 minutes	480 minutes	2200 pulses	5800 pulses

** The motor contains an automatic thermal cut-out, but to ensure the motor does not overheat it is advised that the pump is operated by no more than 12 seconds in every 2 minute period.*
** Other TIMED/PULSE delay options are available.*

STANDARD FEATURES

Pressure monitoring
An internal, factory-set pressure switch monitors the system pressure. This switch is connected to the control board signalling a low pressure warning to the RED LED.

A low pressure warning stops the operation of the lubricator until corrective action has been taken. A pressure gauge is also provided for visual monitoring.

Lubricant level monitoring
A low level switch is mounted within the reservoir. Linked via the microprocessor to the RED LED on the lubricator fascia, it can also be connected externally via the control board, providing to operate an external alarm signal or stop machining cycles. A low level warning will not automatically stop the lubricator.

This may be connected externally to provide a signal to the parent machine.

GREEN LED showing:
Steady on = pump in delay mode
Flashing = pump operating

RED LED showing:
Off: no warning signals
Steady on = pump lubricant low level warning.
Flashing + sounder = pump lubricant low pressure warning

Manual Override/Reset
A touch panel is provided to enable an instant lubrication cycle to be achieved at any time. This will last for the duration of the touch, plus the selected ON period when released. In each control mode pressing the override panel causes the lubricator controller to reset and commence a lubrication cycle.

Pre-lubrication Cycle
LUBEPLUS GX lubricators with control provide an instant pressure cycle on machine start-up or reset (if the supply is routed via the machine on/off system).

LUBEPLUS GX without controls

This model is normally operated in conjunction with the control system of the parent machine. The physical size and mounting arrangement is identical to a GX lubricator with controls. If the pump is to be operated for more than 12 seconds the 'DELAY' period must be not less than 2 minutes. For applications inside this time span please consult Interlube Systems Ltd.

Condition monitoring

The following condition monitoring options are available: Pressure Switch, Pressure Gauge, Float Switch for oil, Float Switch for soft grease, 'Power on' Lamp and a Manual override press button.

Ordering method

When ordering a LUBEPLUS GX system the required Part No. Is compiled from matrix 1 for pumps without controls and from Matrix 2 for those with controls (see below).

Reservoir Sizes

Unless otherwise specified, all models are supplied complete with a 3 litre capacity, reservoir. A 6 litre sheet metal reservoir is also available.

GX DIMENSIONS (matrix 1 & 2)

1. WITHOUT CONTROLS

GX X X X X

				FLOAT SWITCH	PRESSURE SWITCH	PRESSURE GAUGE		
1	P.D.U.	1	110/120 VAC 50/60 Hz	-	-	-	3	3 LITRE PLASTIC RESERVOIR
2	FLOW UNIT	2	220/240 VAC 50/60 Hz	X	-	-	6	6 LITRE METAL RESERVOIR
				X	X	-		
				X	-	X		
				X	X	X		
				-	X	-		
				-	X	X		
				-	-	X		

2. WITH CONTROLS

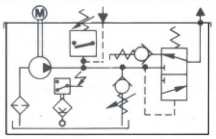
GX X X X X

3	P.D.U.	1	110/120 VAC 50/60 Hz	0	STANDARD CONTROLS	3	3 LITRE PLASTIC RESERVOIR
4	FLOW UNIT	2	220/240 VAC 50/60 Hz			6	6 LITRE SHEET METAL RESERVOIR

E.g.: Gx3243 is a GX gear pump using a PDU system at 220VAC with float switch and pressure gauge with a 3 litre reservoir.

OPTIONS
- Fluid grease option available with electronic level sensor
- Cable entry available left (standard) or right hand side of the GX pump
- Pressure relief adjustment available, located in the front facia or within the reservoir
- Optional lubricant outlet threads and connections available

CIRCUIT DIAGRAM



Hydraulic Circuit (PDU's only)

Without Controls

Switched Live 1
Neutral 2
Permanent Live 3
Earth 4
Pressure Switch 5
Pressure Switch 6
Float Switch 7
Float Switch 8

Motor
Float Switch
Pressure Switch

With Controls

Motor
Float Switch
Pressure Switch
OR Sensor (Fluid Grease)

Live 1
Neutral 2
Earth + impulse count 3
Impulse count (zero volt make & break) 4
Pressure switch (zero volt make & break) 5
Common P/S & F/S 6
Float switch (zero volt make & break) 7

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