# **Dynamis Maxx Lubricator**

# Mobile Systems, Electric, Grease



#### General

Dynamis Maxx Lubricators are electrically driven piston pumps designed for use with series progressive systems. These lubricators can be fitted with up to three independent or combined piston elements providing positive displacement output to series progressive divider valves. Dynamis Maxx Lubricators are available with an integral pCo programmable controller, low level switch and various reservoir capacities. Operating voltages are 12 or 24 VDC.

# **Application**

Dynamis Maxx Lubricators are ideally suited for on-road and off-road mobile machinery such as loaders, excavators, articulated trucks, graders, etc. These lubricators are designed to work in conditions found in the construction, mining and forestry industries.

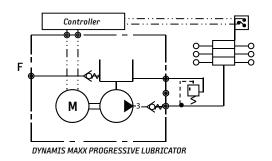
# Operation

Power supplied to a motor with gear box drives a precision eccentric cam which engages with up to three push-pull piston elements. This action creates a suction and pressure stroke of the element(s), thereby displacing fixed volumes of lubricant through an outlet check valve. Lubricant is displaced through main line tubing or hose to a network of progressive divider valves. Each piston element comes with a relief valve (relieves to reservoir).

### **Features**

- + Large reservoir capacities allow for extended times between refills
- + Low grease level and system monitoring capabilities
- + Designed to handle a wide range of lubricants
- + Integral controller option facilitates quick installations

### **ISO Schematics**





Dynamis Maxx Progressive Version

#### Refer to the following documents:

- + Data sheet #35635: PVB Mobile Divider Valve
- + Data sheet # 35762: pCo Quick Start Guide

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### **Technical Data**

### Lubricator

Reservoir Capacity	4 and 8 liter (8 and 16 lb.)		
Grease*	NLGI grade 000-2		
Relief Valve Setting	2320 psi (160 bar)** & 4350 psi (300 bar)		
Discharge/min.	2.9cc (0.18 cu. in.) Per element/outlet		
Outlets	3 outlet maximum		
Operating Temperature Range*	#2: -4°F to 167°F (-20°C to 75°C) #0: -13°F to 167°F (-25°C to 75°C)		
Operating Voltage	12 or 24 VDC		
Outlet Connection	8MM Tube fitting (or G1/4 port)		
Electrical Connections	DIN 43650, 3 pole for power supply		
	Units with internal control have M12x1, 8 pole for status & M12X1, 4-pole for cycle switch. Units without internal control have M12X1 4-pole for level switch connection.		
Fluid Grease Fill Connector	Hydraulic quick disconnect		
IP Enclosure Rating	IP-67		
Motor Type	50W gearmotor		
External Fuse (customer supplied)	12VDC 8 A (slow blow)		
	24VDC 5 A (slow blow)		
Duty Cycle	S3 - 30% (20 minute max runtime)		

#### ATTENTION

- \* Grease used in system must be pump able at the temperatures referenced. Contact lubricant manufacturer with specific questions.
- \*\* Higher pressure settings may be available. Contact Bijur Delimon for details.

### How to Order

Name	Voltage	Reservoir Capacity	Options	Relief Valve	Part #
Lubricator <sup>182</sup>	12 VDC	4 liter (8 lb.)	Low level switch & controller	160	37555
	24 VDC	4 liter (8 lb.)	Low level switch	160	37551
			Low level switch & controller	160	37553
			Low level switch & controller	300	37957
		8 liter (16 lb.)	Low level switch	160	37552
			Low level switch & controller	160	37554
			Low level switch & controller	300	37729

 $<sup>^{\</sup>rm 1}$  Other configurations available upon request. Contact Bijur Delimon for details.

When ordering, specify by name, voltage, reservoir capacity, options and part number,

e.g. Dynamis Maxx Progressive Lubricator, 24 VDC, 4 liter (8 lb.), low level switch, Part #37551.

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<sup>&</sup>lt;sup>2</sup> Dynamis Maxx Progressive Lubricators ship standard with one element. Additional elements can be purchased separately.

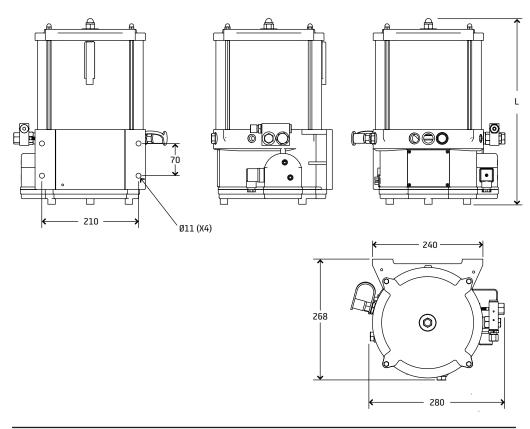


### Accessories & Parts

Description	Part #			
Mounting plate	Straight	37434	90°	37433
Pressure gauge 1/4" NPT, LM	5000psi	U902F	3000psi	U902D
Mating fill connector	UX43521			
Power Cable, SJO 16/4	15117-5			
8-Pole Cable, M12X1, 10m	Straight	M128S10S25	90°	M128A10U25
4-Pole Cable, M12X1, 10m	Straight	76928-2863	90°	76928-2833
Field Wireable Connectors - Cycle Switch or LLS(4-pole)	Straight	23694	90°	23694-1
Element Kit (add a second combined element)		3786	52	
Element Kit (add a second separate element)		3770	)2	
Element Kit (add 2nd & 3rd combined elements)	37703			
Replacement Pump Element	62212P006			
Replacement Reservoirs	4 Liter	73100R097	8 Liter	73100R092
Replacement Relief Valve (160bar)		63611	0003	
AC-to-DC Power Supply Kit (Allows 24VDC to operate on 110/230VAC input power)		DYXETA	0007	

Measurements shown in millimeters.

# **Dimensional Schematics**



Reservoir	L	Weight
4 liter (8 lb.)	390mm (15.3")	22.6 lb.
8 liter (16 lb.)	490mm (19.3")	23.5 lb.

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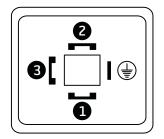
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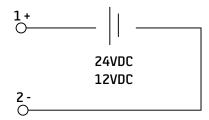
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# **Wiring Schematics**

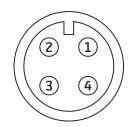
# **POWER SUPPLY**

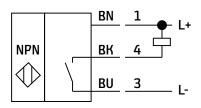




**Power Input Connector** 

# LOW LEVEL SWITCH - Units without Controller





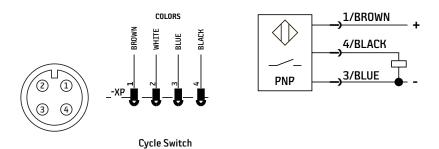
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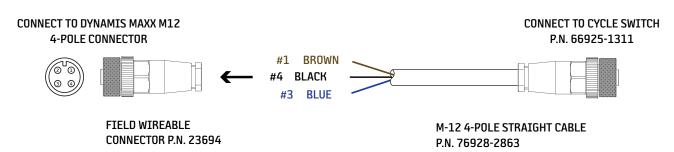
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# CYCLE SWITCH WIRING - Units with Integral pCo Controller

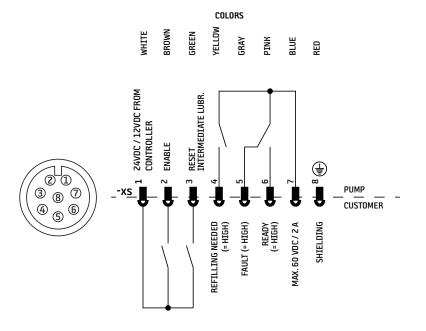




WIRE CABLE TO FIELD WIREABLE CONNECTOR.

CONNECT: BROWN TO PIN #1 BLACK TO PIN #4 BLUE TO PIN #3.

# SIGNALS - Units with Integral pCo Controller



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