



## P203 Series Pump

These pumps are electrically operated and are used in progressive-type automated lubrication systems. The proven and reliable P203 pump has been designed to develop high operating pressures allowing it to supply NLGI #2 grease in most ambient temperatures.

Versatile, compact and economical, this pump can be enhanced with several options including an integrated controller, low-level monitoring and system monitoring. Special configurations are available upon request.

**Note:** Customer must furnish a 12- or 24-volt D.C. power source.

## Electric Grease Pumps with Integrated On/Off Controller

<b>Output/Min Per Element**:</b>	.171 cu. in. / 2.8 cc
<b>Lubricant Outlet:</b>	1/8" NPT (F)
<b>Max. System Operating Pressure:</b>	5000 psig / 350 bar
<b>Enclosure Rating:</b>	IP6K9K*
<b>Operating Temperature Range:</b>	Min. -13°F / -25°C / Max. 158°F / 70°C
<b>Reservoir Capacity:</b>	2-, 4-, 8- or 15-liter ***
<b>Reservoir Fill Method:</b>	By grease fitting
<b>Pressure Relief Valve:</b>	4000 psi, +/- 250 psi / 276 bar, +/- 17 bar

\* Protected from water sprayed in all directions.

\*\* Single 6mm element standard; to increase pump output, add one or two additional element(s) #600-26876-2 and relief valve #270864.

\*\*\* Pressure relief valve included with these models.

## Model Specifications

Model No.	Electrical Requirements	Interval Timer Setting				Reservoir Capacity		
		On Time* (2 minute increments)		Off Time (1 hour increment)		lb.	kg.	liter
		Min	Max	Min	Max			
94012	12 VDC / 3.5 Amps	2 minutes	30 minutes	1 hour	15 hours	4	1.8	2
94412						8	3.6	4
94812						16	7.2	8
94412LDL						8	3.6	4
94812LDL						16	7.2	8
94024	24 VDC / 2 Amp					4	1.8	2
94424						8	3.6	4
94824						16	7.2	8
94824LDL						16	7.2	8
644-46278-1						30	13.6	15

\* Can be set for either minutes or seconds.

## Electric Grease Pumps Without Integrated Controller Model Specifications

Model No.	Electrical Requirements	Reservoir Capacity		
		lb.	kg.	Liters
94224	24 VDC - 2 Amps	4	1.8	2
94212	12 VDC - 3.5 Amps			
644-46278-3	24 VDC - 2 Amps	30	13.6	15



## Electric Grease Pumps with Low-Level Sensor and Integrated Controller for Feedback Monitoring

Supplies NLGI #2 grease (depending on temperature) to divider valves.

### Electrical Requirements

<b>Input:</b>	12 VDC @ 3.5 amps, 24 VDC @ 2 amps 94 - 265 VAC (50 to 60 Hz)
<b>Enclosure Rating:</b>	IP6K9K *
<b>Interval Between Lube Cycles:</b>	Min. 4 minutes / Max. 15 hours
<b>Pump Output:</b>	0.171 cu. in./min. / 2.8 cc/min.
<b>Outlet Connection:</b>	1/8" NPT (F)
<b>Reservoir Capacity:</b>	2-, 4-, 8- or 15-liter **
<b>Maximum Recommended Operating Pressure:</b>	5000 psi / 350 bar
<b>Lubricant:</b>	Greases NLGI grade 2 (depending on operating temperature and type of lubricant)
<b>Temperature Range:</b>	-13°F to 158°F / -25°C to 70°C
<b>Pressure Relief Valve:</b>	4000 psi, +/- 250 psi / 276 bar, +/- 17 bar

**Note:** Do not use pump without pressure relief valve.

\* Protected from water sprayed in all directions.

## Model Specifications

Model No.	Description	Power	Control Settings			Reservoir Capacity		
			Interval Between Lube Cycle Min.	Interval Between Lube Cycle Hrs.	Alarm Time Min.	Liters	In <sup>3</sup>	Lbs.
94222	P203-2XL-1K6-24-2A6.15-M13-A+SV	24 VDC	4 - 60	1 -15	5 or 30	2	122	4
94422	P203-4XLBO-1K6-24-2A6.15-M13-A+SV	24 VDC	4 - 60	1 -15	5 or 30	4	244	8
94822	P203-8XLBO-1K6-24-2A6.15-M13-A+SV	24 VDC	4 - 60	1 -15	5 or 30	8	488	16
94822LDL	P203-8XL-1K6-24-2A6.15-M13-A+SV	24 VDC	4 - 60	1 - 15	5 or 30	8	488	16
644-40987-2	P203-15XL-1K6-24-2A6.15-M13-A+SV	24 VDC	4 - 60	1 -15	5 or 30	15	915	30
644-40821-6 *	P203-2XLBO-1K6-12-2A6.15-M08	12 VDC	4 - 60	1 -15	5 or 30	2	122	4
644-40843-8 *	P203-4XLBO-1K6-12-2A6.15-M08	12 VDC	4 - 60	1 -15	5 or 30	4	244	8
644-40822-8 *	P203-8XLBO-1K6-12-2A6.15-M16	12 VDC	4 - 60	1 -15	5 or 30	8	488	16
644-40873-1 *	P203-8XLBO-1K6-AC-3A6.15-M08	120 VAC	4 - 60	1 -15	5 or 30	8	488	16

\*These "644-" pumps do not come with the pressure relief valve. It must be ordered separately and is recommended. The 1/8" NPT adapter (304-19614-1) is also not included and must be ordered separately, if required. None of the above pumps come with the proximity switch. This must be ordered separately.



## Electric Grease Pump with RemoteLinc™ Technology

- Easily interfaces with OEM and aftermarket telematics systems
- Allows users to:
  - Remotely monitor and detect low lubricant levels and system faults.
  - Reduce cost by receiving immediate, real-time alerts when lubricant is low or the system is in fault.

### Electrical Requirements

<b>Input:</b>	12 VDC @ 3.5 amps, 24 VDC @ 2 amps 94-265 VAC (50 to 60 Hz)
<b>Enclosure Rating:</b>	IP6K9K*
<b>Interval Between Lube Cycles:</b>	Min. 4 minutes / Max. 15 hours
<b>Pump Output:</b>	0.171 cu. in./min. / 2.8 cc/min.
<b>Outlet Connection:</b>	1/8" NPT (F)
<b>Reservoir Capacity:</b>	2-, 4-, 8- or 15-liter**
<b>Maximum Recommended Operating Pressure:</b>	5000 psi / 350 bar
<b>Lubricant:</b>	Greases NLGI grade 2 (depending on operating temperature and type of lubricant)
<b>Temperature Range:</b>	-13°F to +158°F / -25°C to +70°C
<b>Pressure Relief Valve:</b>	4000 psi, ±250 psi / 276 bar, ±17 bar

## Model Specifications

Model No.	Voltage	Reservoir Capacity
94223-12	12VDC	2L
94423-12	12VDC	4L
94823-12	12VDC	8L
94223	24VDC	2L
94423	24VDC	4L
94423LDL	24VDC	4L (Lidless)
94823	24VDC	8L
94823LDL	24VDC	8L (Lidless)
94923	24VDC	15L
94223-AC	94-265VAC	2L
94423-AC	94-265VAC	4L
94823-AC	94-265VAC	8L

None of the above pumps come with a proximity switch. This must be ordered separately.

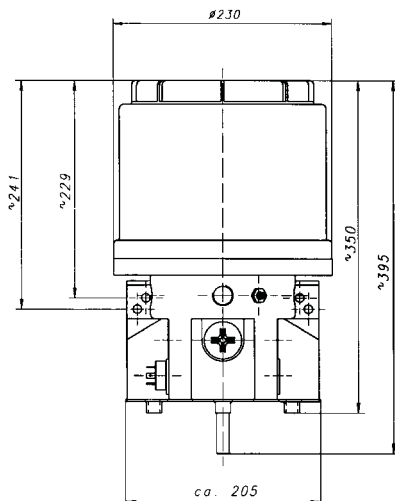


## 203 AC Models

This VAC pump automatically adjusts to handle a variety of electrical supply voltages (between 94- and 265-volt, 50 to 60 Hz.)

<b>Input Voltage:</b>	94 - 265 VAC, 3 Amps
<b>Operating Temperature:</b>	-13° to 158°F / -25° to 70°C
<b>Number and Element Size:</b>	1 - 6mm
<b>Reservoir Capacity:</b>	2-, 4-, 8- or 15-liter *
<b>Output per Minute:</b>	Approx. 2.8 cc / 0.171 cu. in. per min.
<b>Lubricant:</b>	Greases up to NGLI #2/Oil with at least 40 cSt
<b>Max. Operating Pressure:</b>	5076 psi / 350 bar

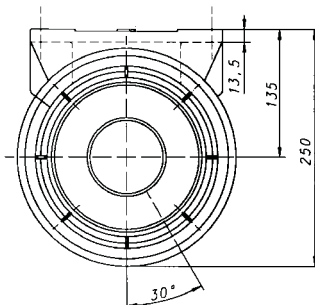
\* Contact Lincoln for 15-liter reservoir models.



## Model Specifications

Model No.	Description	Res. Cap.	Grease or Oil	Low level control	Printed circuit board
644-46073-5	P203-2XNBO-1K6-AC-1A1.01-V10 (UL)-A+SV	2 liter	Grease	No	Yes
644-46173-4	P203-4XNBO-1K6-AC-1A1.01-V10 (UL)-A+SV	4 liter	Grease	No	Yes
644-46173-5	P203-4YLBO-1K6-AC-1A1.01-V10 UL)-A+SV	4 liter	Oil	Yes	Yes
644-46073-6	P203-2XNBO-1K6-AC-1A1.01 (UL)-A+SV	2 liter	Grease	No	No
644-46173-6	P203-4XLBO-1K6-AC-2A1.01 (UL)-A+SV	4 liter	Grease	Yes	No
644-46173-8	P203-4YLBO-1K6-AC-1A1.01 (UL)-A+SV	4 liter	Oil	Yes	No
644-46173-7	P203-4XNBO-1K6-AC-1A1.01 (UL)-A+SV	4 liter	Grease	No	No
644-46174-2	P203-8XLBO-1K6-AC-2A1.01-V10 (UL)-A+SV	8 liter	Grease	Yes	Yes
644-46174-4	P203-8XLBO-1K6-AC-2A1.01 (UL)-A+SV	8 liter	Grease	Yes	No

"(UL)" in the description refers to UL-approved, CSA-certified pumps.  
Pumps with "-A+SV" come complete with the 1/8" NPT adapter and pressure relief valve.



# Quicklub® Lubrication Systems

## Identification Code—Pump Models 203

**LINCOLN**

### Examples of Codes

#### Note

Any pumps combination other than the above standard pumps can be composed and ordered in accordance with the valid model identification code

*Basic pump model for grease or oil with 1-3 outlets*

#### Reservoir Design

2 = 2 l transparent plastic reservoir  
4 = 4 l transparent plastic reservoir  
8 = 8 l transparent plastic reservoir  
15 = 15 l transparent plastic reservoir

X = reservoir for grease

Y = reservoir for oil

N = standard design

L = low-level control

without designation = standard reservoir (2 l)

BO = filling from top

FL = flat type reservoir (for 2l, no low level)

#### Pumping Element

1 - 3 number of elements

#### Piston Type - Piston Diameter (selection see page 20)

K5 - 5 mm

K6 - 6 mm

K7 - 7 mm

KR adjustable - 7 mm

B7 - 7 mm (outlet same as K5)

S7 - 7 mm (food industry)

#### Operating Voltage

12 VDC or 24 VDC (DC motor)

AC = 94 - 265 VAC (47 - 63 HZ) with 24 VDC motor

#### Number of Connection Possibilities

1A = 1 connector (left), power supply <sup>1</sup>

1A = 1 connector (left), power supply <sup>2</sup>

1A = 1 connector, power supply left + illuminated push button for additional lubrication, low level <sup>3, C</sup>

2A = 2 connectors, power supply (left) <sup>1, +</sup> illuminated push button for additional lubrication, low-level (right) <sup>1, C</sup> (V10 - V13, V20 - V23, H)

2A = 2 connectors, power supply (left) + illuminated push button for additional lubrication, low-level (left) <sup>3, C</sup> and piston detector (right) <sup>4</sup> (M08 - M23)

#### Type of Connection

1 = square type connector (DIN 43650, type A) <sup>1</sup>

5 = bayonet plug, 4/3, DIN 72585-1 <sup>2</sup> (V10-V13, V20-V23, H)

6 = bayonet plug, 7/5, DIN 72585-13 (M08-M23)

7 = bayonet plug, 7/6, DIN 72585-1 <sup>3</sup> (V10-V13, V20-V23)

#### Connection Outside the Pump

00 = without socket outlet, without cable

01 = socket outlet, without cable <sup>1</sup>

10 = socket outlet, with 10 m cable <sup>1</sup>

11 = socket outlet, with 10 m ADR cable <sup>A, 1</sup>

14 = socket for bayonet, with 10 m cable, 4/3 <sup>2</sup>, V10-V13, V 20-V23, no low level, no illuminated push button <sup>C</sup>

15 = socket for bayonet with 10 m cable, 7/5 <sup>3</sup>, M08-M23

16 = socket for bayonet, with 10 m cable, 7/6g <sup>3</sup>, V10-V13, V 20-V23, with low level or illuminated push button <sup>C</sup>

17 = socket for bayonet with 10 m ADR-Cable <sup>A</sup>, 4/3 <sup>2</sup>, (V10-V13, H)

#### P.C.B. for 12 / 24 VDC

V10 - V13 = adjustable pause and operating time <sup>1, 2, 3</sup>

H = for trailers and semi trailers <sup>1, 2</sup>

without designation = without p.c.b. <sup>1, 2</sup>

M08 - M23 = with microprocessor control <sup>3</sup> different model in accordance to the jumper position

No designation, pump without control p.c.b.

*The Figures <sup>1, 2, 3</sup> are in conjunction with those of the "Type of connection" determining the connector you could use*

<sup>A</sup> For hazardous material transport

<sup>B</sup> C7 = for supply of chisel paste

<sup>C</sup> low level for oil; the connection for low level is not taken into consideration

**Special order Quicklub pumps require a delivery time of six to eight weeks.**

P 203	2	X	N		1	K6	24	1A	1	10	
P 203	4	X	N	BO	1	KR	24	2A	6	15	M13
P 203	2	X	N		2	K5	12	1A	1	10	H
P 203	8	X	N	BO	1	K6	24	1A	5	14	V13
P 203	4	Y	L	BO	1	K7	24	1A	1	10	V20
P 203	2	X	L		1	K6	24	1A	7	16	V10