

The Path to Cost Reduction

A lack of lubrication can bring your machines and equipment to a screeching halt. Manual lubrication is often awkward and expensive. Automated lubrication offers an efficient, rational and environmentally friendly solution.

From a few lubrication points to a few thousand – Lincoln offers the complete range of lubrication equipment and systems for professional lubrication of construction and mining equipment.

Lincoln lubrication systems are based on the principle of grouping lubrication points together that can be serviced from one supply point. Our modules build upon each other – enabling the system to grow in accordance with our customer's requirements. This enables us to offer a custom-tailored lubrication solution for individual needs.

P603S Pump Features

Reliable Operation in Harsh Environments

- Wind turbines – especially offshore
- Construction and mining
- Commercial vehicles
- Compact and medium-sized machines and industrial applications
- Robust and easy system layout
- Simple maintenance – easy to expand
- SE1 suction elements for used lubricant
- Suitable for quick separating lubricants
- Increased profits and productivity
- Improved operating times; less costly downtime resulting from improper lubrication
- Lower costs for repairs and spare parts
- Exactly matched metering reduces the cost of lubricant
- Precise metering reduces the environmental impact. No dripping of “too much” lubricant
- Improved safety by minimizing slipping
- Hard-to-reach points are easily accessible from a convenient point – which also improves safety
- Reliable supply of all connected lubrication points. No points are “overlooked”



Incoming metering	0.05 - 0.4 cm ³ /stroke
Pump Output	12 cm ³
Supply voltage	12 VDC, 24 VDC, 100-240 VAC
Visual monitoring (indicator pin)	x
Programmable controller	x
Reservoir capacity/liter	4, 8, 10, 15, 20
Integrated pressure sensor and vent	x
Visual low-level	x
Compatible with SE1 suction elements	x

Available Pump Models

Model No.	Description	Power	Size	Follower	Transducer
645-41064-3	P603S- 4XLF -3Z7-AC-2A7.16-S13-SE	AC	4L	X	X
645-41062-3	P603S- 8XLF -3Z7-AC-2A7.16-S13-SE	AC	8L	X	X
645-41110-2	P603S- 8XLBO-3Z7-AC-3A7.16-S12-SE	AC	8L		X
645-41062-4	P603S- 8XLBO-3Z7-AC-3A7.16-S19-SE	AC	8L		X
645-41073-5	P603S-15XLF -3Z7-AC-2A7.16-S13-SE	AC	15L	X	X
645-41064-8	P603S- 4XLF1-3Z7-12-1A7.16-S01-SE	12 DC	4L	X (Bayonett)	X
645-41064-7	P603S- 4XNBO-3Z7-12-2A7.16-S01-SE	12 DC	4L		X
645-41110-3	P603S- 8XLF1-3Z7-12-1A7.16-S01-SE	12 DC	8L	X (Bayonett)	X
645-41062-9	P603S- 8XLF -3Z7-24-1A7.16-S01-SE	24 DC	8L	X	X
645-41064-4	P603S- 4XLBO-3Z7-24-1A7.16-S17-SE	24 DC	4L		X
645-41064-6	P603S- 4XLF -3Z7-24-1A7.16-S13-SE	24 DC	4L	X	X
645-41064-2	P603S- 4XNBO-3Z7-24-1A7.16-S01-SE	24 DC	4L		X
645-41062-8	P603S- 8XLBO-3Z7-24-2A7.16-S19-SE	24 DC	8L		X
645-41062-9	P603S- 8XLF -3Z7-24-1A7.16-S01-SE	24 DC	8L	X	X
645-41062-7	P603S- 8XLF -3Z7-24-1A7.16-S03-SE	24 DC	8L	X	X
645-41119-1	P603S-10XLF -3Z7-24-1A7.16-S13-SE	24 DC	10L	X	X

Centro-Matic® Automated Lubrication Systems

P603S Pump



Pump and Accessories – All-In-One

The pump with integrated controller is easy to install. The all-in-one design of the pump includes the programmable controller, a pressure switch/transducer and a vent valve.

Simple System Design – Easy to Expand

The single-line system's design and layout is uncomplicated, making it easy to install and operate. A single mainline reduces material and installation costs.

Easy to Service

It is quick and easy to exchange out an injector. The mainline or neighboring injectors do not have to be removed. The exchange can be performed between lubrication cycles so that there is no wasted lubricant or excessive costly downtime.

Additional Pressure Switch

An additional pressure switch at the end of larger systems can be used for added pressure control to ensure correct lubrication.

Special Features for Wind Turbine Applications – Also for Off-Shore Systems

Lincoln single-line systems completely vent during the pause interval. As a result, they are suitable for fast separating lubricants.

For rotating operation in wind turbines, the reservoir is equipped with a follower plate and stirring paddle – which also facilitates the usage of fast separating lubricants. For stationary operation a stirring and fixed paddle is sufficient.

Pump Specifications

	P603S 12/24 VDC	P603S / AC
Pump Output	0.73 cu.in/min (12cm ³ /min)	0.73 cu.in/min (12cm ³ /min)
Maximum Working Pressure	4,350 psig (300 bar) / 3,480 psig (240bar)	4,350 psig (300 bar) / 3,480 psig (240bar)
Maximum Current Draw	2 amps	2 amps
Steering Paddle And Follower	yes	yes
Reservoir Size, Liter	4, 8, 10, 15 and 20	4, 8, 10, 15 and 20
Number Of Pumping Elements	3, (seven millimeter dia.)	3, (seven millimeter dia.)
RPM, Paddle (76°F)	18	18
Pressure Switch At Pump	yes	yes
Transducer At Pump	yes	yes
Pressure Switch/ End Of Line	yes	yes
Transducer/ End Of Line	yes	yes
PCB	yes	yes
Separate Alarms, LL/Proxy Switch	no	no
24.0 VDC Input	yes	yes
Switching Power Supply	no	yes
Connectors	Bayonet style	Bayonet style + square type (AC)
Data Logger	no	no
Remotely Change Lube Frequency	yes	yes
Count Control	yes	yes
Ignition & Neutral Switch	yes	yes
Acknowledging Fault	at pump/external	at pump/external
Manually Lub Switch, External	yes	yes
Pump On LED, External	yes	yes
Protection	IP 6K9K	IP 6K9K
Temperature	-40°C / +70°C	-40°C / +70°C