

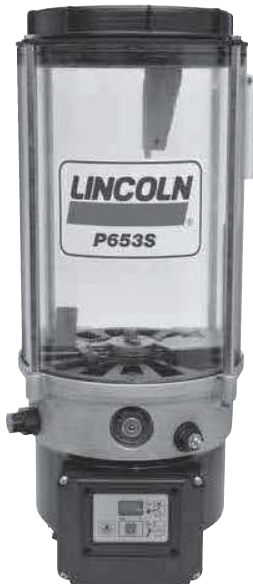
Centro-Matic® Automatic Lubrication Systems

P653S Electric Pump



Taking Lincoln's Pump Performance and Dependability In A Totally New Direction

The fully integrated P653S pump is an example of Lincoln's commitment to providing innovative, cost-effective solutions through industry-leading advances in technology. This next-generation, lower-cost pump package can be fitted with one of four reservoir sizes and easily adapts to many applications.



P653S Pump Features

- Integrated pump supplies lubricant to a single line parallel lubrication system
- Pumps low- and high-viscosity greases including industry standard NLGI grade 2 grease
- Easily interfaces with telematics technology in today's heavy equipment
- Operating temperature range from -40°F to +158°F (-40°C to +70°C) VDC or 32°F to 122°F (0°C to 50°C) VAC*
- Neutral switch allows mobile equipment to remain idling with pump power on but the timer is deactivated – allowing manual lubrication functionality.
- All pumps include low-level and system fault alarms

Benefits

- Integration of major system components reduces labor and overall costs
- Simplifies lubrication system design
- Installation time is reduced due to the "plug-and-play" pump design. Simply mount the pump, connect power and the supply lines and the system is ready for operation.
- Neutral switch ensures lubrication only when the machine is operating – eliminating wasted grease.

* Appropriate greases apply

15 AND 20 LITER RESERVOIR KITS

Convert any 4 or 8 liter P653S or P603S pump without a follower to a 15 or 20 liter reservoir with the following kits:

Reservoir size:	Part No.
15L	276764
20L	276765

Available With or Without Follower (shown with follower)

High-Volume Output

Vent Valve

120/220 AC or 24-DC Pump



INTERNAL COMPONENTS

- Telematics Signaling Capabilities for Low Level and System Fault Detection
- Pressure Switch or Transducer

Reservoir Available in Four Sizes – 4, 8, 15 and 20 Liters Means Versatility in Scheduling Refilling Service Intervals

Reservoir Refill Port

Programmable Controller



P653S Pump Specifications for Grease Applications

Electrical data	DC Pumps	AC Pumps
Incoming voltage:	19 to 31 VDC	100 to 240 VAC
Maximum current:	10 amps	1.7 amps
Frequency:	—	47 to 63 hz
Operating temperature:	-40 to +158°F (-40 to +70°C)	32 to 122°F (0 to 50°C)

Common Electrical Data for DC and AC Pumps

Minimum pause time:	4 min.
Maximum pause time:	59 hrs. 59 min.
Pause time increments:	1 hr. or 1 min.
Maximum pumping time:	12 min.

Pump P653S

Operating pressure with:	
Pressure switch (fixed):	3,500 psig (240 bar)
Pressure transducer (adj.):	1,400 to 4,600 psig (96 to 317 bar)
End of line pressure switch and transducer setting (not adj.):	2,500 psig (172 bar)
Number of outlets:	1
Output:	1.5 in ³ /min (24.6 cm ³ /min)

Pump Elements

Piston diameter:	7 mm
Number of pumping elements (connected together):	3
Protection	1P 6K9K

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P653S Electric Pump for Grease Applications



Available Pump Models

NOTE: All models are designed for grease and include stirring paddle and low-level detection. Pumps include remote signaling cable, relief valve, electrical connectors and external pressure switch or transducer (as indicated for each model).

Model No.	24 VDC	120/230 VAC 50/60 Hz	Reservoir Size (L)	Follower Plate	Internal Pressure Switch	Internal Pressure Transducer	Internal & End-of-Line Pressure Switch	Internal & End-of-Line Pressure Transducer
80086	X		4		X			
80087	X		4			X		
80105	X		4				X	
80106	X		4					X
80076	X		4	X	X			
80077	X		4	X		X		
80109	X		4	X			X	
80110	X		4	X				X
80090	X		8		X			
80091	X		8			X		
80107	X		8				X	
80108	X		8					X
80080	X		8	X	X			
80081	X		8	X		X		
80111	X		8	X			X	
80112	X		8	X				X
80120	X		20			X		
80121	X		15	X		X		
80122	X		15			X		
80129*	X		8		X			
80130*	X		4		X			
80131*	X		8		X			
80082		X	4		X			
80083		X	4			X		
80084		X	4				X	
80085		X	4					X
80072		X	4	X	X			
80073		X	4	X		X		
80074		X	4	X			X	
80075		X	4	X				X
80088		X	8		X			
80089		X	8			X		
80078		X	8	X	X			
80079		X	8	X		X		
80134		X	15			X		
80135		X	20	X				X

* PLC pause time controlled

P653S Pumps for Oil Applications

Two new pumps made especially for oil applications. These pumps operate the same as the grease version with low-level detect, internal pressure transducer and filtered filling through the lid. Available in two reservoir sizes.

Model	120/230 AC	Reservoir Size	Internal Transducer
80127	X	4 liter	X
80128	X	8 liter	X