

QLS 401 Compact Lubrication System For Up To NLGI #2 Grease COMPACT • STURDY • MULTIFUNCTIONAL

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- Compact, multifunctional, one liter reservoir (2 lbs.) lubrication system
- Includes all required components for full system monitoring
- Enhanced stirring paddle—prevents grease separation, especially for long refill intervals, and reduces bleeding of grease

QLS 401

The QLS 401 is a complete lubrication system that includes all necessary monitoring and control functions. All components including an internal pressure relief valve are part of the complete package. The comprehensive list of standard features is a remarkable characteristic of the QLS 401. The integrated, all-in-one system concept reduces installation time and costs. The QLS 401 is designed for all industrial and mobile applications. Up to 18 lubrication points can reliably be supplied directly from the pump and monitored at an affordable price.

Multifunctional

The QLS 401 is versatile. An integrated circuit board optimally controls the pause time and the pump cycles to ensure a regular supply of lubricant. All settings are performed with ease via the keypad. Settings and messages are shown on the built-in LED display. The QLS 401 is also available in a “key lock” version that locks the programming function.

Sturdy

The QLS 401 is shock and vibration proof and operates reliably, even when exposed to severe operating conditions such as temperatures ranging from -10°F to +158°F (-25°C to +70°C) or water spray from all directions (IP6K9K, NEMA 4 protection).



Convert field QLS 301/321 follower plate reservoirs to the enhanced stirring paddle reservoir with kit 550-32530-1, where required to prevent grease separation in applications with long refill intervals.

Compact

The QLS 401 is a high-pressure grease pump with a controller and monitoring device, a function display and a divider block. All system components and all the functions that are needed to lubricate at a professional level are included.



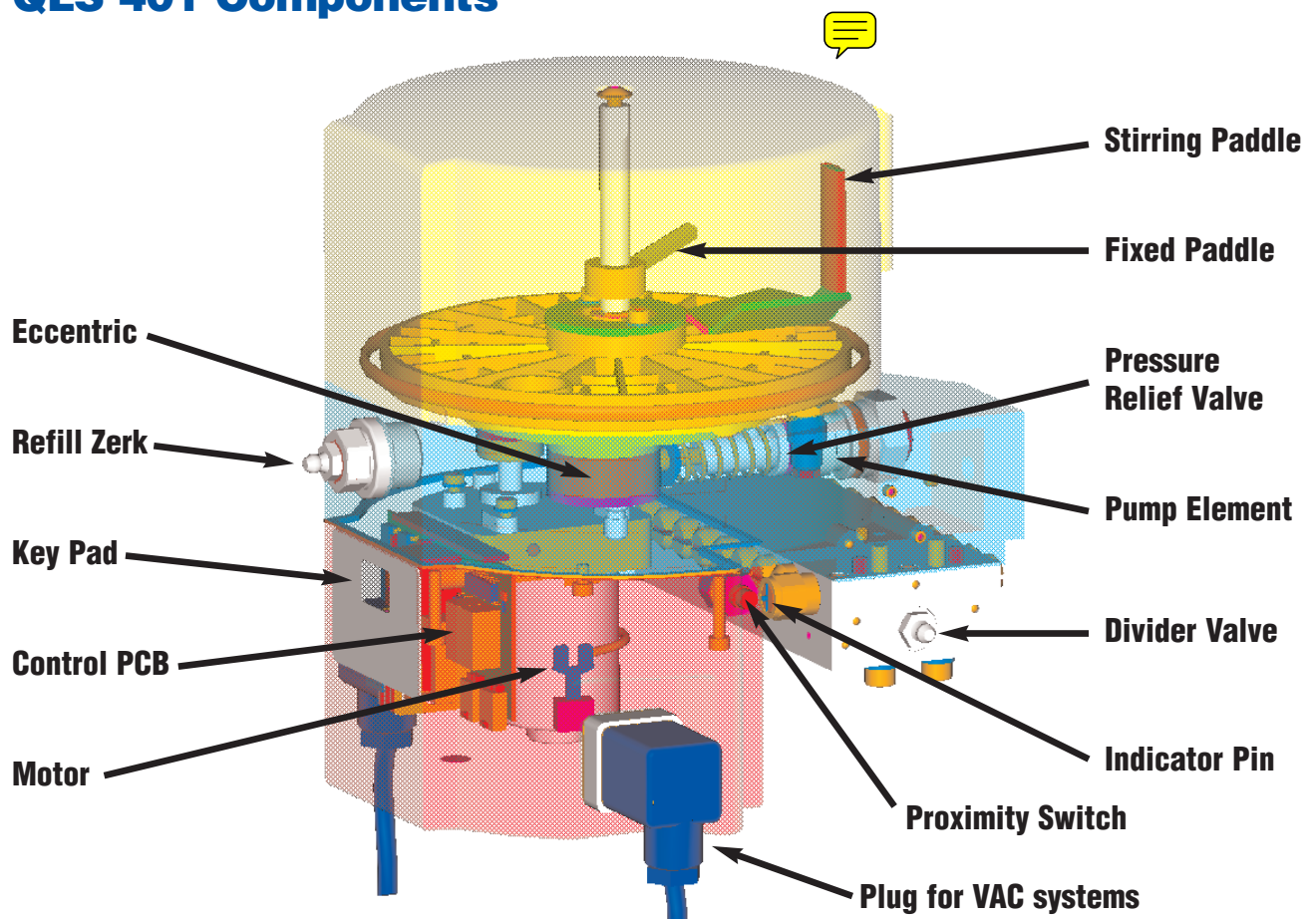
A newly enhanced stirring paddle in the reservoir prevents grease separation—even with long refill intervals.



Features & Benefits

- ◆ One liter reservoir capacity—small and compact
- ◆ Stirring paddle—prevents grease separation and allows for easy refill as the reservoirs are shipped empty so filling with the grease of choice is simple
- ◆ Integrated controller with monitoring (optional without controller)—adaptable to function in various applications
- ◆ Integrated display and keypad—easy access to programming and message retrieval
- ◆ LED fault indication—signals low levels and system blockages
- ◆ Built-in pressure relief valve with internal return to reservoir and attached divider block—ready-to-install package
- ◆ Available in 12 or 24 VDC as well as 120 VAC and 230 VAC—several mobile and industrial site locations are possible
- ◆ Large spectrum of usable lubricants—for multipurpose grease up to NLGI #2

QLS 401 Components



Technical Specifications

Specifications

	QLS 401	QLS 401 for Remote Control	QLS 421
Operating Voltage	12 & 24 VDC 120 & 230 VAC, 50/60 Hz	24 VDC 120 VAC, 50/60 Hz	12 & 24 VDC
Operating Current	12 VDC / 1.0 A 24 VDC / 1.5 A 120 VAC / 1.0 A 230 VAC / 0.5 A	24 VDC / 1.0 A 120 VAC / 1.0 A	12 VDC / 2.0 A 24 VDC / 1.0 A
Operating Temperature	-10° to 158°F -25° to 70°C	-10° to 158°F -25° to 70°C	-10° to 158°F -25° to 70°C
Number of Outlets	6, 8, 12 or 18	—	6, 12 or 18
Reservoir Capacity	61 in ³ / 1.0 L	61 in ³ / 1.0 L	61 in ³ / 1.0 L
Protection	NEMA 4	NEMA 4	NEMA 4
Lubrication Cycle Time	20 min. to 100 hours	—	—
Min. Pause Time	—	4 min. DC models 20 min. AC models	—
Max. Operating Time	—	25 min. DC models 15 min. AC models	—
Time Between Cycles	—	—	1 hour to 16 hours
On Time Range	—	—	1 to 32 min.
Number of Cycles	1 (with 6, 8 divider block 1, 2 or 3 cycles are possible)	—	—
Timer Memory	Indefinite	Indefinite	Indefinite
Max. Operating Pressure	3000 psig / 205 bar	3000 psig / 205 bar	3000 psig / 205 bar
Output per Outlet & Cycle	approx. 0.012 in ³ approx. 0.2 cm ³	approx. 0.012 in ³ approx. 0.2 cm ³	approx. 0.012 in ³ approx. 0.2 cm ³
Lubricant	NLGI 2 grease	up to NLGI 2 grease	up to NLGI 2 grease
Weight	12.5 lbs. / 5.7 kg	12.5 lbs. / 5.7 kg	12.5 lbs. / 5.7 kg
Integrated Controller	Yes	No	Yes

QLS 401 Models

Model No.	Valve Type	Valve Mount	Voltage	Cable
P40131202573	SSV6	Back	12VDC	30' / 10m
P40131402573	SSV6	Back	24VDC	30' / 10m
P40142601113	SSV8	Bottom	120VAC	none
P40142801113	SSV8	Bottom	230VAC	none
P40161202573	SSV12	Back	12VDC	30' / 10m
P40161402573	SSV12	Back	24VDC	30' / 10m
P40162601113	SSV12	Bottom	120VAC	none
P40162801113	SSV12	Bottom	230VAC	none
P40191202573	SSV18	Back	12VDC	30' / 10m
P40191402573	SSV18	Back	24VDC	30' / 10m
P40192601113	SSV18	Bottom	120VAC	none
P40192801113	SSV18	Bottom	230VAC	none
550-32530-1	Reservoir Conversion Kit			

QLS 401 Remote Control Models

Model No.	Valve Type	Valve Mount	Voltage	Cable
P40131401110*	SSV6	Back	24VDC	none
P40142600110*	SSV8	Bottom	120VAC	
P40161401110*	SSV12	Back	24VDC	
P40162600110*	SSV12	Bottom	120VAC	
P40191401110*	SSV18	Back	24VDC	
P40192600110*	SSV18	Bottom	120VAC	

* Pumps for remote control require external timer or PLC.

QLS 421 Models

Model No.	Valve Type	Valve Mount	Voltage	Cable
P42131402531	SSV6	Bottom	24VDC	19 feet 6 meters
P42161202531	SSV12		12VDC	
P42191202531	SSV18		12VDC	
P42191402531	SSV18		24VDC	
P42131210531	SSV6		12VDC	
P42131410531	SSV6		24VDC	
P42161210531	SSV12		12VDC	
P42191210531	SSV18		12VDC	
P42191410531	SSV18		24VDC	

System Versions

- **QLS 401 without controller**—for remote control by an external timer or PLC.
- **QLS 421 for mobile trailers**—uses the power of a trailer's brake lights and contains a unique controller that keeps track of the time it is in use by monitoring its vibration.

For detailed information on the QLS 401 for Remote Control and the QLS 421, see pages 12 and 17 in the Lincoln Quicklub® catalog.



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