



## QLS 401

The QLS 401 features a newly enhanced stirring paddle in the reservoir to prevent grease separation—even with long refill intervals. All components including an internal pressure relief valve are part of the complete package. Standard features include a built-in controller with LED display and keypad for easy programming and monitoring, and a divider block with 6, 8, 12 or 18 outlets. The integrated, all-in-one system concept reduces installation time and costs. The 12 and 24 VDC models are available with bayonet, quarter-turn type plugs for improved protection in mobile applications (optional low-level control).

<b>Operating Voltage:</b>	12 and 24 VDC 120 and 230 VAC, 50/60 Hz
<b>Operating Current:</b>	12 VDC / 2.0 A 24 VDC / 1.0 A 120 VAC / 1.0 A 230 VAC / 0.5 A
<b>Operating Temperature:</b>	-13° to 158°F / -25° to 70°C
<b>Number of Outlets:</b>	6, 8, 12 or 18
<b>Reservoir Capacity:</b>	61 in <sup>3</sup> / 1.0 L / 2.0 L
<b>Protection:</b>	NEMA 4
<b>Lubrication Cycle Time:</b>	AC: 20 min. to 60 hours DC: 4 min. to 6 hours
<b>Number of Cycles:</b>	For VDC: 1 to 5 cycles For VAC – SSV6/SSV8: 1 to 3 cycles For SSV12/SSV18: 1 cycle
<b>Timer Memory:</b>	Indefinite
<b>Max. Operating Pressure:</b>	3000 psig / 205 bar
<b>Output per Outlet &amp; Cycle:</b>	approx. 0.012 in <sup>3</sup> / approx. 0.2 cm <sup>3</sup>
<b>Lubricant:</b>	NLGI 2 grease
<b>Weight</b>	12.5 lbs. / 5.7 kg

## Model Specifications

Model No.	Valve Type	Valve Mount	Volt	Cable
P401 31202574	SSV6	Back	12 VDC	30' / 10m
P401 31402574	SSV6	Back	24 VDC	30' / 10m
P401 42601114	SSV8	Bottom	120 VAC-UL	none
P401 42801114	SSV8	Bottom	230 VAC-UL	none
P401 61202574	SSV12	Back	12 VDC	30' / 10m
P401 61402574	SSV12	Back	24 VDC	30' / 10m
P401 62601114	SSV12	Bottom	120 VAC-UL	none
P401 62801114	SSV12	Bottom	230 VAC-UL	none
P401 91202574	SSV18	Back	12 VDC	30' / 10m
P401 91402574	SSV18	Back	24 VDC	30' / 10m
P401 92601114	SSV18	Bottom	120 VAC-UL	none
P401 92801114	SSV18	Bottom	230 VAC-UL	none



### QLS 401 for Remote Control

The QLS 401 for Remote Control allows customers to be in control of the lubrication process. The 24 VDC models monitor system cycling with a proximity switch. An external timer or PLC controls the interval between lube cycles. The 120 VAC models have no cycle monitoring and are on/off controlled by the user's external timer or PLC. The minimum pause time requirements should be followed when setting up the external controller. (Optional low-level control)

<b>Operating Voltage:</b>	24 VDC 120 VAC, 50/60 Hz
<b>Operating Current:</b>	24 VDC / 1.0 A 120 VAC / 1.0 A
<b>Operating Temperature:</b>	-10° to 158°F / -25° to 70°C
<b>Number of Outlets:</b>	6, 8, 12 or 18
<b>Reservoir Capacity:</b>	61 in <sup>3</sup> / 1.0 L
<b>Protection:</b>	NEMA 4
<b>Minimum Pause Time:</b>	4 min. DC models / 20 min. AC models
<b>Maximum Operating Time:</b>	25 min. DC models / 15 min. AC models
<b>Timer Memory:</b>	Indefinite
<b>Maximum Operating Pressure:</b>	3000 psig / 205 bar
<b>Output per Outlet &amp; Cycle:</b>	approx. 0.012 in <sup>3</sup> / approx. 0.2 cm <sup>3</sup>
<b>Lubricant:</b>	up to NLGI 2 grease
<b>Weight</b>	12.5 lbs. / 5.7 kg

### Model Specifications

Model No.	Valve Type	Valve Mount	Volt
P401 31401110	SSV6	Back	24 VDC
650-40915-8	SSV8	Bottom	120 VAC-UL
P401 61401110	SSV12	Back	24 VDC
650-40915-9	SSV12	Bottom	120 VAC-UL
P401 91401110	SSV18	Back	24 VDC

**Pump Models**  
Examples of part numbers

P40100400114  
P40162400154

<b>Pump 401 for grease</b> .....	<b>P401</b>								
<b>SSV Divider Block</b>									
External, SSV 6, SSV 8 <sup>2)</sup> (or SSV 12 and 18 without control p.c.b.) .....	0								
External, SSV 12, SSV 18 <sup>2)</sup> .....	1								
SSV 6 (back) .....	3								
SSV 8 (bottom) .....	4								
SSV 12 .....	6								
SSV 18 .....	9								

P401 6 2 4 0 0 1 5 4

<sup>2</sup> Note: For external divider block application only use the specific divider blocks SSV...KNQLS.

**SSV Divider Block Position**

External divider block .....	0								
Back (vertical order) .....	1								
Bottom <sup>3</sup> (horizontal order) .....	2								

<sup>3</sup> Note: Do not use QLS 401 with SSV block in bottom-mounting position for mobile applications. Do not install the pump in areas exposed to shock.

**Operating Voltage**

12 VDC <sup>1</sup> .....	2								
24 VDC <sup>1</sup> .....	4								
120 VAC <sup>2</sup> (with control p.c.b. only) .....	6								
230 VAC <sup>2</sup> (with control p.c.b. only) .....	8								

<sup>1</sup> Note: Standard 12 and 24 VDC pump models for mobile applications can be supplied with 10-meter (30') electrical cable.

<sup>2</sup> Note: Standard 120 and 230 VAC pump models for industry are supplied without electrical cable.

**Reservoir**

1 liter reservoir without low-level control .....	0								
1 liter reservoir with low-level control .....	1								
2 liter reservoir without low-level control .....	2								
2 liter reservoir with low-level control .....	3								

**Number of Possible Connections**

-1A = connection left-side (square type), supply voltage .....	0								
-2A = 2 connections (square type) .....									
1 connection left-side, supply voltage .....	1								
1 connection right-side, low-level control or fault indication .....									
1A = 1 connection (quarter-turn bayonet-type) supply voltage; low-level control or fault indication (DC models only) .....	2								

**Type of Plug Connector**

Square-type, acc. to DIN 43650 type of construction A (industrial application) .....	1								
Quarter-turn bayonet-type plug, DIN 72585-1, 4-pole (mobile application; DC models only) .....	5								

**Electrical Connectors**

With socket, without cable .....	1								
With socket, with cable 10 m. ....	5								
With socket, with cable 10 m (DC models only) .....	7								

**Control p. c. b.**

p. c. b. without time control (DC models) .....	0								
p. c. b. S4:									
Normally closed or normally open contact (programmable), monitored: 1 to 5 cycles (DC models) .....									
1 cycle with SSV 12, SSV 18 (AC models) .....									
1 to 3 cycles with SSV 6, SSV 8 (AC models) .....	4								