

Lincoln Quicklub centralized and automatic lubrication systems



LINCOLN

People, capabilities and systems to save money and increase productivity

We're the largest and most successful company in our field because we continually satisfy our customers with the world's best lubrication and pumping systems. For more than a century, companies have relied on our technical and quality leadership, our world-class manufacturing and customer service, and our vast network of distributors and support facilities.

Lincoln develops new products and systems at research and development facilities in the U.S., Germany and India that provide global and regional application solutions.

We have solutions for large processing plants, automotive manufacturing, pulp and paper mills, and food and beverage facilities. Virtually every industrial professional involved in operations and maintenance can benefit from Lincoln systems.

On the road or in the field, Lincoln protects heavy equipment used in mining, construction, agriculture and over-the-road trucking. The world's leading manufacturers offer our systems as standard equipment or factory options.

Lincoln builds precision metal components, state-of-the-art electronic controls, and the industry's top-performing pump systems. Our quality systems in the United States and Germany are ISO 9001 registered.

With five technical support centers on three continents, and a network of systems houses and distributors supported by regional sales and service offices, our customers can always draw on our worldwide resources.

To make sure your investment results in significant savings, Lincoln developed a unique program called BearingSaver. You not only get a complete audit of your facility, you also receive an analysis of your return on investment.



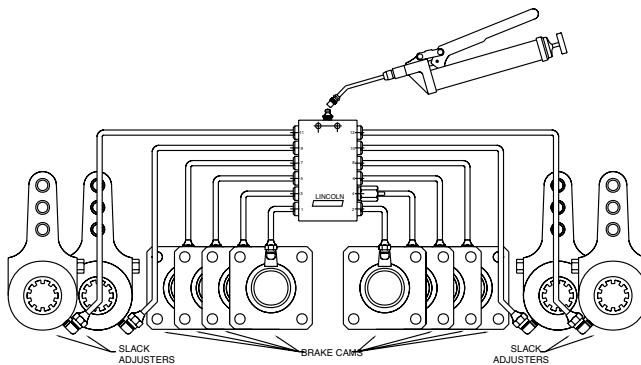
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The Lincoln Quicklub system is designed to provide a relatively simple and inexpensive method of centralizing or automating the lubrication of machinery bearings.

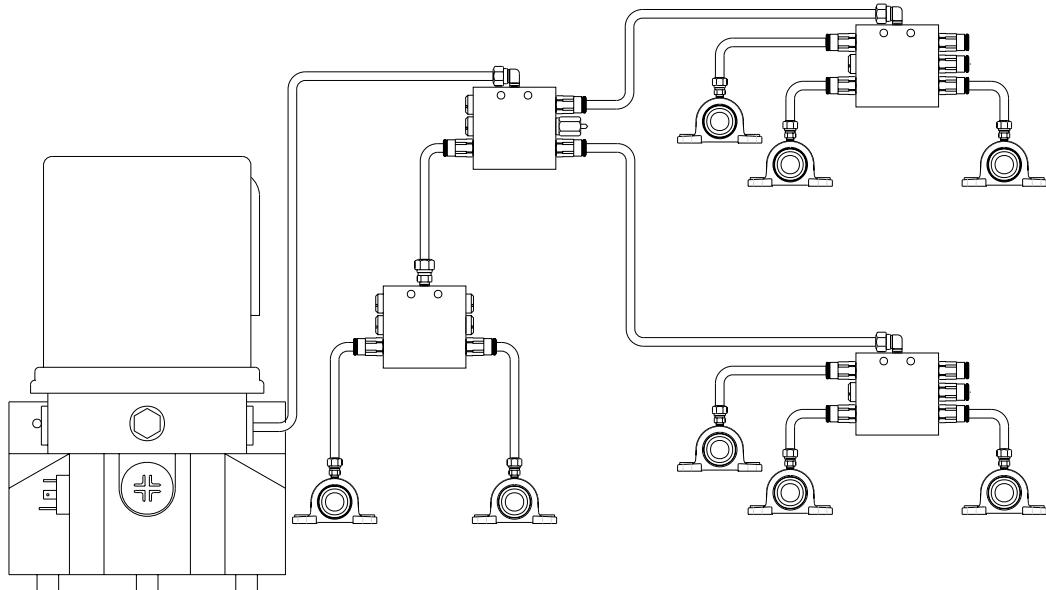
Quicklub can be a simple, centralized system with lubricant supplied manually from a lever gun. Pre-assembled kits are available to service up to 12 points from a single grease fitting. Custom kits can also be provided by our distributors to cover virtually any quantity of points desired.

Quicklub® lubrication method

A Quicklub® centralized lubrication system typically dispenses measured amounts of lubricant to each point covered by the system. Even those hard to reach are assured of being properly lubricated and purged of contaminants.



Quicklub can also be a fully automated system with lubricant supplied by our 12VDC and 24VDC electric or pneumatic pumps. An automated lubrication system typically dispenses small measured amounts of lubricant at frequent intervals while production machines are operating. The electric pumps incorporate an integrated timer for easy installation and trouble-free operation.



Quicklub systems have proven to be the right solution for many industries and applications, eliminating costly, manual point-by-point lubrication. Examples include:

Mobile Equipment

- Over-the-road tractors
- Single-axle trailers
- Tandem-axle trailers
- Tri-axle trailers
- Yard tractors
- Trucks of all types
- Refuse haulers
- Wheel loaders
- Hydraulic excavators
- Motor graders
- Backhoe loaders
- Hydraulic hammers
- Street sweepers
- Road & highway paving equipment

Industrial Equipment

- Packaging
- Lathes
- Beverage industry
- Textile
- Metal working
- Wood processing
- Material handling equipment
- Bakery
- Printing
- Punch presses
- Paper converting
- Milling
- Plastic processing
- Wind energy

The heart of the Quicklub® system

More than a drilled manifold block, the valve incorporates a series of metering pistons which accurately dispense lubricant from each outlet, overcoming back pressure of up to 1,000 psi. Visual monitoring is provided with an indicator pin, which confirms a valve has completed a full cycle. Quicklub divider valves are available for grease or oil applications and in carbon steel and 303 stainless steel for corrosive environments.

Figure 1

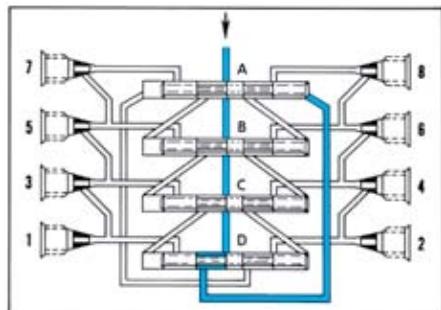


Figure 2

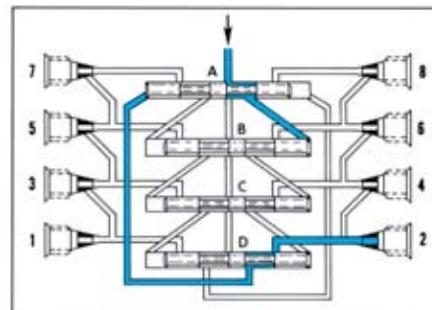


Figure 3

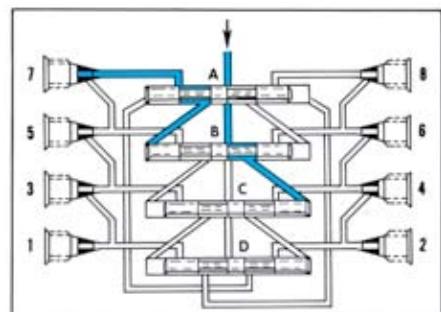
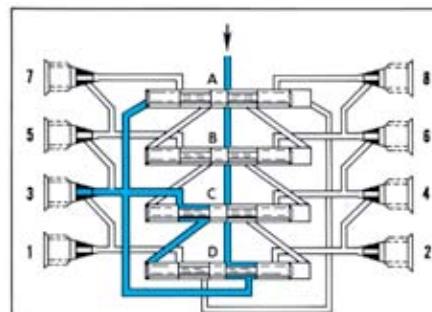


Figure 4



The inlet passageway is connected to all piston chambers at all times with only one piston free to move at any time.

- With all pistons at the far right, lubricant from the inlet flows against the right end of piston A (fig. 1).
- Lubricant flow shifts piston A from right to left, dispensing lubricant through connecting passages to outlet 2. Flow is then directed against the right side of piston B (fig. 2).
- Piston B shifts from right to left, dispensing lubricant through outlet 7. Lubricant flow is directed against the right side of piston C (fig. 3).
- Piston C shifts from right to left, dispensing lubricant through outlet 5. Lubricant flow is directed against the right side of piston D.
- Piston D shifts from right to left, dispensing through outlet 3. Piston D's shift directs lubricant through a connecting passage to the left side of piston A (fig. 4).

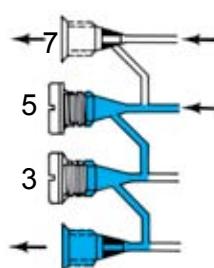
Lubricant flow against the left side of piston A begins the second half-cycle, which shifts pistons from left to right, dispensing lubricant through outlets 1,8,6 and 4 of the divider valve.

Crossporting a Divider Valve

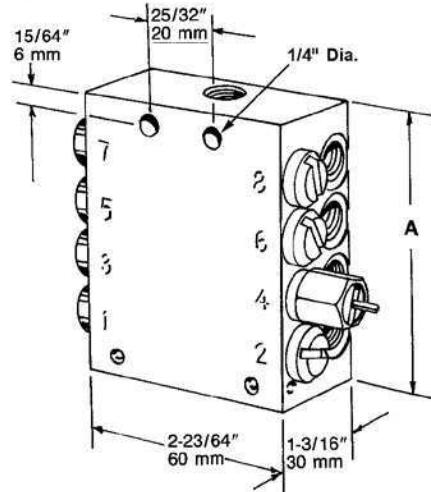
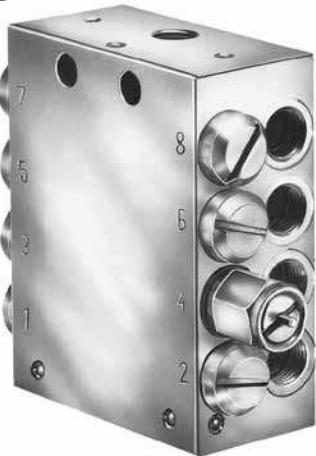
Outputs from adjacent outlets may be combined by installing a closure plug in one or more outlets. Lubricant from a plugged outlet is redirected to the next adjacent outlet in descending numerical order. Outlets 1 and 2 must not be plugged since they have no cross-port passage to the next adjacent outlet.

In figure 5, outlets 5 and 3 are cross-ported and directed through outlet 1. In this example, outlet 1 will dispense three times as much lubricant as outlet 7. The tube ferrules in outlets 1 and 7 block the cross-port passage so that lubricant flow is only directed through outlets.

Figure 5



SSV Divider Valves



The SSV Divider Valve is the "heart" of a manual or automated Quicklub system. Featuring from six to 22 outlets, the SSV valve is available in carbon steel and 303 stainless steel for corrosive environments. Valves are available with cycle indicator pins to provide visual indication of system operation.

Specifications:

Construction Material	Max. Operating Pressure Min. Operating Pressure	Output/Cycle per Outlet cu. in. / cc	Lubricant Inlet	Lubricant Outlet	Operating Temperature	
					Min.	Max.
Carbon Steel	5076 psig / 350 bar	.012 / .2	1/8" NPTF(F)	M10x1	-22°F (-30°C)	212°F (100°C)
Stainless Steel	290 psig / 20 bar		1/8" BSPP(F)*			

Note: Lubricant outlet must use Lincoln Quicklub fittings. See Divider Valve Accessories section.

* 241650 stainless steel adapter available to convert inlet to 1/8" NPTF (F).

Model No.		Maximum Number of Outlets	Cycle Indicator Pin	Dimension A in. / mm
Carbon Steel	303 Stainless Steel			
619-27121-1		6	No	2.36 / 60
619-27122-1	619-27472-1		Yes	
619-26396-2		8	No	2.95 / 75
619-26646-2	619-27474-1		Yes	
619-26844-1		10	No	3.54 / 90
619-26845-2	619-27476-1		Yes	
619-26398-2		12	No	4.14 / 105
619-26648-2	619-27478-1		Yes	
619-29400-1		14	No	4.8 / 120
619-28899-1	619-29067-1		Yes	
619-29401-1		16	No	5.4 / 135
619-28900-1			Yes	
619-28901-1		18	Yes	5.9 / 150
619-28902-1		20	Yes	6.5/165
619-77254-1		22	Yes	7.1/180

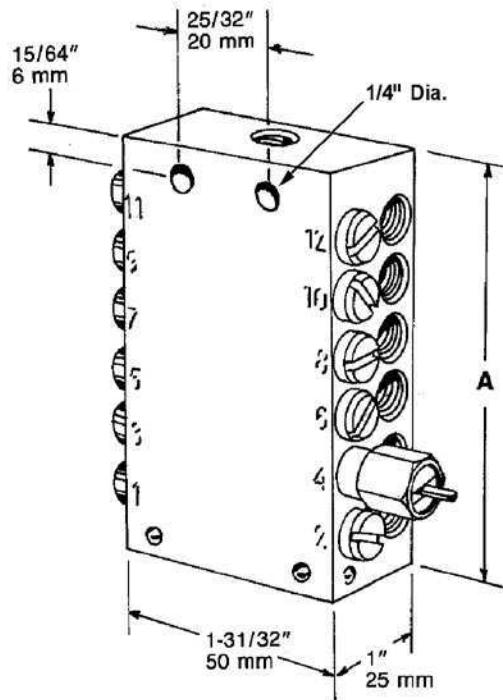
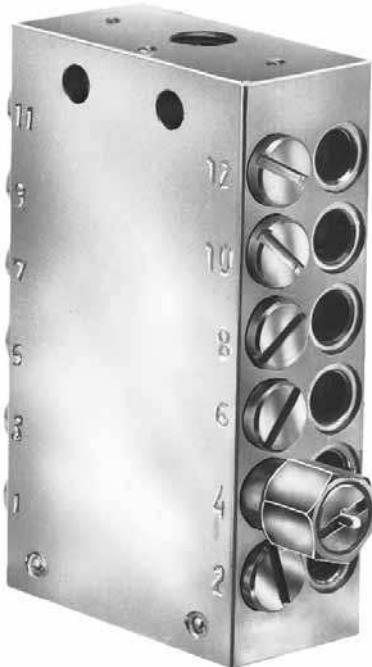
Note: You must use outlets 1 and 2 for each of the above referenced models to allow the system to operate properly.

SSV Divider Valve Accessories

Model Number	Description
249010	Cycle switch for providing feedback monitoring for SSV systems - 11" cable / 26-gauge wire

Note: Cycle switch can only be used with SSV Series Quicklub valves that have indicator pins. Remove slotted plug from indicator assembly on valve prior to installing switch.

SSVM Divider Valves



The SSVM Divider Valve is smaller in overall size than the SSV series and provides smaller volume output per outlet. Available with six to 12 outlets, the SSVM series valve is used primarily in oil system applications.

Specifications:

Construction Material	Maximum Operating Pressure	Output/Cycle per Outlet cu. in. / cc	Lubricant Inlet	Lubricant Outlet	Operating Temperature	
					Min.	Max.
Carbon Steel	2900 psig / 200 bar	.0037 / .07	1/8" NPTF(F)	M8x1	-22°F (-25°C)	212°F (70°C)

Model No.	Maximum Number of Outlets	Cycle Indicator Pin	Dimension A in. / mm
Carbon Steel			
619-26764-1	6	No	1.91 / 48.5
619-26765-3		Yes	
619-26650-1	8	No	2.36 / 60
619-26651-3		Yes	
619-26848-1	10	No	2.81 / 71.5
619-26849-2		Yes	
619-26653-1	12	No	3.26 / 83
619-26654-3		Yes	

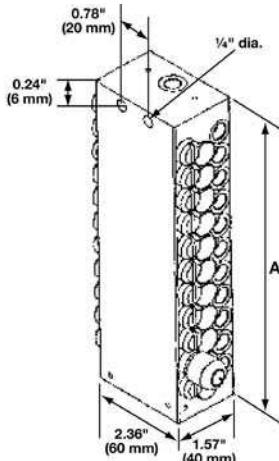
Note: You must use outlets 1 and 2 for each of the above referenced models to allow the system to operate properly.



Divider Valve Accessories

Model Number	Description
619-36732-1	Demonstration Valve (see-through block)
619-36732-2	Cut-away model valve (SSV8)

SSV-D Metering Device



SSV-D metering devices are adjustable per outlet pair, thus enabling lubricant requirements to be better met. The metering occurs within the block via metering screws that are available in ten different outputs (sold separately).

The outputs of the progressive metering device can be easily set, even after installation. Simply put in a different size metering screw! Tedious reassembly of entire metering device segments is a thing of the past.

The SSV-D can be integrated into system using standard SSV metering devices. Both metering device types also use the same components such as piston detector and outlet closure plugs.

Specifications:

Construction Material	Max. Operating Pressure	Output/Outlet Pair/Stroke cu. in. / cc	Lubricant Inlet	Lubricant Outlet	Operating Temperature
Carbon Steel	5076 psig / 350 bar	Min. .0049/.08 / Max. .110/1.8	1/8" NPTF(F)	M10x1	-13°F to 158°F / (-25°C to 70°C)

Model No.	Maximum Number of Outlets	Cycle Indicator Pin	Dimension A in. / mm	Number of Required Metering Screws
649-29535-1	6	No	2.75 / 70	3
649-29545-1		Yes		
649-29536-1	8	No	3.35 / 85	4
649-29546-1		Yes		
649-29537-1	10	No	3.94 / 100	5
649-29547-1		Yes		
649-29538-1	12	No	4.53 / 115	6
649-29548-1		Yes		
649-29539-1	14	No	5.12 / 130	7
649-29549-1		Yes		
649-29627-1	16	No	5.71 / 145	8
649-29635-1		Yes		
649-29628-1	18	No	6.3 / 160	9
649-29636-1		Yes		
649-29629-1	20	No	7.48 / 190	10
649-29637-1		Yes		
649-29630-1	22	No	7.48 / 190	11
649-29638-1		Yes		

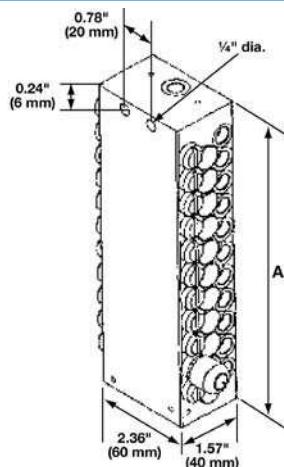
Note: You must use outlets 1 & 2 for each of the above reference models to allow the system to operate properly.

Metering Adjustment Screws

Output cu. in. / cc	Model Number	
	Sold as Each	Bag of 12
.0049 / 0.08	303-16118-1	549-34254-1
.0085 / 0.14	303-16119-1	549-34254-2
.012 / 0.2	303-16120-1	549-34254-3
.018 / 0.3	303-16121-1	549-34254-4
.024 / 0.4	303-16122-1	549-34254-5

Output cu. in. / cc	Model Number	
	Sold as Each	Bag of 12
.037 / 0.6	303-16123-1	549-34254-6
.049 / 0.8	303-16124-1	549-34254-7
.061 / 1.0	303-16125-1	549-34254-8
.085 / 1.4	303-16126-1	549-34254-9
.110 / 1.8	303-16127-1	549-34255-1

SSV-D
Metering Device
with Outlets
1 & 2 Together



For added installation flexibility, outlets 1 and 2 can be singled together. In this configuration, outlets #1 and #2 are internally connected thus doubling the output through one output port. See the chart below for models and outlet configurations.

Specifications:

Construction Material	Max. Operating Pressure	Output/Outlet Pair/Stroke cu. in. / cc	Lubricant Inlet	Lubricant Outlet	Operating Temperature
Carbon Steel	5076 psig / 350 bar	Min. .0049/.08 / Max. .110/1.8	1/8" NPTF(F)	M10x1	-13°F to 158°F / (-25°C to 70°C)

Model No.	Description	Maximum Number of Outlets	Cycle Indicator Pin	Number of Required Metering Screws
649-29540-1	NPT SSV 6/5-V1-A	5	No	3
649-29550-1	NPT SSV 6/5-V1-K-A		Yes	
649-29541-1	NPT SSV 8/7-V1-A	7	No	4
649-29551-1	NPT SSV 8/7-V1-K-A		Yes	
649-29542-1	NPT SSV 10/9-V1-A	9	No	5
649-29552-1	NPT SSV 10/9-V1-K-A		Yes	
649-29543-1	NPT SSV 12/11-V1-A	11	No	6
649-29553-1	NPT SSV 12/11-V1-K-A		Yes	
649-29544-1	NPT SSV 14/13-V1-A	13	No	7
649-29554-1	NPT SSV 14/13-V1-K-A		Yes	
649-29631-1	NPT SSV 16/15-V1-A	15	No	8
649-29639-1	NPT SSV 16/15-V1-K-A		Yes	
649-29632-1	NPT SSV 18/17-V1-A	18	No	9
649-29640-1	NPT SSV 18/17-V1-K-A		Yes	
649-29633-1	NPT SSV 20/19-V1-A	19	No	10
649-29641-1	NPT SSV 20/19-V1-K-A		Yes	
649-29634-1	NPT SSV 22/21-V1-A	21	No	11
649-29642-1	NPT SSV 22/21-V1-K-A		Yes	

Note: A plug must be installed in outlets 1 or 2 but not both for the above referenced models to allow the system to operate properly. One metering screw needed per outlet pair for SSV-D metering device.



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

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

Input:	12 VDC @ 3.5 amps, 24 VDC @ 2 amps 94 - 265 VAC (50 to 60 Hz)
Enclosure Rating:	IP6K9K *
Interval Between Lube Cycles:	Min. 4 minutes / Max. 15 hours
Pump Output:	0.171 cu. in./min. / 2.8 cc/min.
Outlet Connection:	1/8" NPT (F)
Reservoir Capacity:	2-, 4-, 8- or 15-liter **
Maximum Recommended Operating Pressure:	5000 psi / 350 bar
Lubricant:	Greases NLGI grade 2 (depending on operating temperature and type of lubricant)
Temperature Range:	-13°F to 158°F / -25°C to 70°C
Pressure Relief Valve:	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 ³	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

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

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

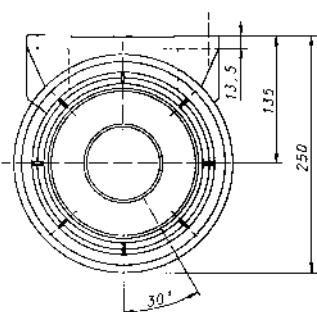
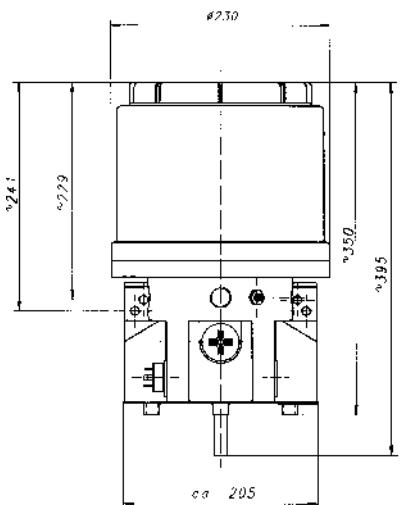
* Contact Lincoln for 15-liter reservoir models.

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 $\frac{1}{8}$ " NPT adapter and pressure relief valve.





233 Pumps with Data Logger QuickData

The 233 centralized lubrication pump is a powerful and robust compact multi-line pump that can drive up to three elements and is used in progressive (Quicklub or Modular Lube) automated lubrication systems. The 233 is ideal for mobile applications, rental machines and construction machines. Versatile, compact and economical, this pump is enhanced with low-level control, printed circuit board MDF01 with attached data logger module and a keypad with display.

QuickData Displays

- Current status and operating data
- Malfunctions of the lubrication system with the time of occurrence
- Remedy of the malfunction with date, time and duration of malfunction
- Low-level signal of reservoir and regular refilling
- Modifications in the pause time programming
- Number of automatically and manually triggered lube cycles as well as the corresponding lubricant consumption
- Power supply interruptions

The QuickData software is updated and all data can be read out by using an off-the-shelf, infrared IrDa-to-USB adapter. All indications enable the users to draw their conclusions regarding the condition, function, reliability, usability and duration of service of the machine or the device. All information can be analyzed and documented and is then available as a written protocol. The family of 233 pumps includes 12 and 24 VDC and 120 VAC pumps. They are available with 1, 2 or 3 elements in 5, 6 or 7 mm or with an adjustable output element. Reservoir sizes are 2, 4 or 8 liters. Refer to the pump identification code for a complete listing of available pump configurations.

Model Specifications

Model No.	Description	Power	Reservoir Capacity			Grease	Low-Level Control	Printed circuit board
			Liters	In³	Lbs.			
644-40824-1	P233-2XL-1K6-24-2A5.10-MDF	24 VDC	2	122	4	Yes	Yes	Yes
644-40824-2	P233-2XLBO-1K6-24-2A5.10-MDF	24 VDC	2	122	4	Yes		
644-40826-1	P233-4XLBO-1K6-24-2A5.10-MDF	24 VDC	4	244	8	Yes		
94434LDL	P233-4XL-1K6-24-2A5.10-MDF	24 VDC	4	244	8	Yes		
644-40827-1	P233-8XLBO-1K6-24-2A5.10-MDF	24 VDC	8	488	16	Yes		
94834LDL	P233-8XL-1K6-24-2A5.10-MDF	24 VDC	8	488	16	Yes		
644-41040-1	P233-15XL-1K6-24-2A5.10-MDF	24 VDC	15	915	30	Yes		
644-40868-1	P233-2XL-1K6-12-2A5.10-MDF-A	12 VDC	2	122	4	Yes		
644-40869-1	P233-4XLBO-1K6-12-2A5.10-MDF-A	12 VDC	4	244	8	Yes		
644-40870-1	P233-8XLBO-1K6-12-2A5.10-MDF-A	12 VDC	8	488	16	Yes		
644-40867-1	P233-8XLBO-1K6-AC-3A6.15-MDF	120 VAC	8	488	16	Yes		

These pumps do not include a pressure relief valve or proximity switch which must be ordered separately.

Other technical data and dimensions are identical to the P203.



Lidless Pump Upgrade Options

Now available: Retrofit kits to field replace current 4L and 8L Model 203 reservoirs to ones without lids. The retrofit kit promotes good maintenance practice and improves system performance by eliminating grease contamination through the removable lid. For each field retrofit kit, two part numbers need to be ordered (see model numbers below):

- One part number for the reservoir
- One part number for the fixed paddle

Assembly is required. The fixed paddle snaps in place and the new reservoir gasket replaces the old one.

Model No.	Description
544-32695-1	Reservoir 4XN/4YN
444-70490-1	Fixed Paddle assy, 4XNBO/4YNBO
544-32696-1	Reservoir 8XN/BYN
444-70491-1	Fixed Paddle assy, 8XNBO/8YNBO

Lidded Pump Upgrade Option

These two kits are used to upgrade a 2-liter reservoir to either a 4- or 8-liter reservoir (with lid) pump. These upgrades are for pumps without low-level monitoring.

Model No.	Description
544-32022-1	4-Liter Conversion Kit
544-32023-1	8-Liter Conversion Kit

15-Liter Upgrade Kit

Converts 4- and 8-liter model Quicklub pump to 15-liter reservoir with low level.

Model No.	Description
544-32957-2	4- and 8-Liter Conversion Kit



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).

Operating Voltage:	12 and 24 VDC 120 and 230 VAC, 50/60 Hz
Operating Current:	12 VDC / 2.0 A 24 VDC / 1.0 A 120 VAC / 1.0 A 230 VAC / 0.5 A
Operating Temperature:	-13° to 158°F / -25° to 70°C
Number of Outlets:	6, 8, 12 or 18
Reservoir Capacity:	61 in³ / 1.0 L / 2.0 L
Protection:	NEMA 4
Lubrication Cycle Time:	AC: 20 min. to 60 hours DC: 4 min. to 6 hours
Number of Cycles:	For VDC: 1 to 5 cycles For VAC – SSV6/SSV8: 1 to 3 cycles For SSV12/SSV18: 1 cycle
Timer Memory:	Indefinite
Max. Operating Pressure:	3000 psig / 205 bar
Output per Outlet & Cycle:	approx. 0.012 in³ / approx. 0.2 cm³
Lubricant:	NLGI 2 grease
Weight	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)

Operating Voltage:	24 VDC 120 VAC, 50/60 Hz
Operating Current:	24 VDC / 1.0 A 120 VAC / 1.0 A
Operating Temperature:	-10° to 158°F / -25° to 70°C
Number of Outlets:	6, 8, 12 or 18
Reservoir Capacity:	61 in³ / 1.0 L
Protection:	NEMA 4
Minimum Pause Time:	4 min. DC models / 20 min. AC models
Maximum Operating Time:	25 min. DC models / 15 min. AC models
Timer Memory:	Indefinite
Maximum Operating Pressure:	3000 psig / 205 bar
Output per Outlet & Cycle:	approx. 0.012 in³ / approx. 0.2 cm³
Lubricant:	up to NLGI 2 grease
Weight	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

Pump 401 for grease.

P401

P40100400114
P40162400154

SSV Divider Block

External, SSV 6, SSV 8²) (or SSV 12 and 18 without control p.c.b.)

0

External, SSV 12, SSV 18²)

1

SSV 6 (back)

3

SSV 8 (bottom)

4

SSV 12

6

SSV 18

9

² 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

Bottom³ (horizontal order)

2

³ 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 VDC¹

2

24 VDC¹

4

120 VAC² (with control p.c.b. only)

6

230 VAC² (with control p.c.b. only)

8

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

² 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

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;

2

low-level control or fault indication (DC models only)

Type of Plug Connector

Square-type, acc. to DIN 43650 type of construction A

1

(industrial application)

Quarter-turn bayonet-type plug, DIN 72585-1, 4-pole

5

(mobile application; DC models only)

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)

4

1 cycle with SSV 12, SSV 18 (AC models)

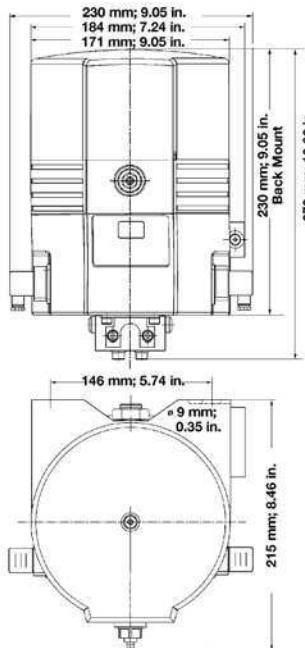
1 to 3 cycles with SSV 6, SSV 8 (AC models)

QLS 301



It's compact, rugged, easy to install and easy to use. It has a long list of standard features including built-in controller with LED display and keypad for easy programming, system cycle monitoring, a built-in low-level control and remote monitoring capability. For those who thought the reduced downtime and improved safety of automated lubrication were out of reach, and for those waiting for a cost-effective system for their smaller machinery, the reliable QLS 301 is the answer. It's automatic lubrication "made easy." Same as QLS 401 except has spring-loaded follower allowing for mounting pump horizontally.

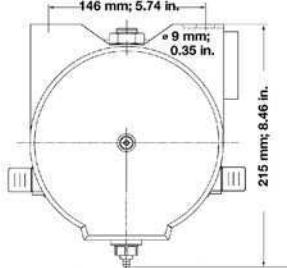
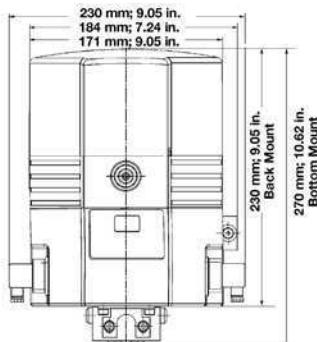
Operating Voltage:	12 and 24 VDC 120 and 230 VAC, 50/60 Hz
Operating Current:	12 VDC / 2.0 A 24 VDC / 1.0 A 120 VAC / 1.0 A 230 VAC / 0.5 A
Operating Temperature:	-10° to 158°F / -25° to 70°C
Number of Outlets:	6, 8, 12 or 18
Reservoir Capacity:	61 in³ / 1.0 L
Protection:	NEMA 4
Lubrication Cycle Time:	AC: 20 min. to 60 hours DC: 4 min. to 60 hours
Number of Cycles:	For VDC: 1 to 5 cycles For VAC – SSV6/SSV8: 1 to 3 cycles For SSV12/SSV18: 1 cycle
Timer Memory:	Indefinite
Maximum Operating Pressure:	3000 psig / 205 bar
Output per Outlet & Cycle:	approx. 0.012 in³ / approx. 0.2 cm³
Lubricant:	NLGI 2 grease
Weight	12.5 lbs. / 5.7 kg



Model Specifications

Model No.	Valve Type	Valve Mount	Volt	Cable
P301 31211154	SSV6	Back	12 DC	30' / 10m
P301 31411154	SSV6	Back	24 DC	30' / 10m
P301 42611114	SSV8	Bottom	120 AC	none
P301 42811114	SSV8	Bottom	230 AC	none
P301 61211154	SSV12	Back	12 DC	30' / 10m
P301 61411154	SSV12	Back	24 DC	30' / 10m
P301 62611114	SSV12	Bottom	120 AC	none
P301 62811114	SSV12	Bottom	230 AC	none
P301 91211154	SSV18	Back	12 DC	30' / 10m
P301 91411154	SSV18	Back	24 DC	30' / 10m
P301 92611114	SSV18	Bottom	120 AC	none
P301 92811114	SSV18	Bottom	230 AC	none

Note: All models include low-level.



QLS 311

Unit includes pump, control monitor and metering valve and is ready to go “out of the box.” Pump includes built-in controller with LED display and keypad for easy programming, system cycle monitoring, a built-in low-level control and remote monitoring capability. Unit offers the advantages of automated lubrication, including reduced downtime and improved safety, to machinery large and small.

Operating Voltage:	12 and 24 VDC 120 and 230 VAC; 50/60 Hz
Operating Current:	12 VDC / 2.0 A 24 VDC / 1.0 A 120 VAC / 1.0 A 230 VAC / 0.5 A
Operating Temperature:	-10° to 158°F / -25° to 70°C
Number of Outlets:	6, 8, 12 or 18
Reservoir Capacity:	61 in³ / 1.0 L
Protection:	NEMA 4
Lubrication Cycle Time:	AC: 20 min. to 60 hours DC: 4 min. to 60 hours
Number of Cycles:	For VDC: 1 to 5 cycles For VAC – SSV6/SSV8: 1 to 3 cycles For SSV12/SSV18: 1 cycle
Timer Memory:	Indefinite
Max. Operating Pressure:	1160 psig / 80 bar
Output per Outlet & Cycle:	approx. 0.012 in³ / approx. 0.2 cm³
Lubricant:	oil with at least 40cSt.
Weight	12.5 lbs. / 5.7 kg

Model Specifications

Model No.	Valve Type	Valve Mount	Volt	Cable
P311 31211154	SSV6	Back	12 DC	30' / 10m
P311 61211154	SSV12	Back	12 DC	30' / 10m
P311 91211154	SSV18	Back	12 DC	30' / 10m
P311 31411154	SSV6	Back	24 DC	30' / 10m
P311 61411154	SSV12	Back	24 DC	30' / 10m
P311 91411154	SSV18	Back	24 DC	30' / 10m
P311 42611114	SSV8	Bottom	120 AC	none
P311 42811114	SSV8	Bottom	230 AC	none
P311 62611114	SSV12	Bottom	120 AC	none
P311 92611114	SSV18	Bottom	120 AC	none
P311 62811114	SSV12	Bottom	230 AC	none
P311 92811114	SSV18	Bottom	230 AC	none

Note: All models come with a low-level indicator.



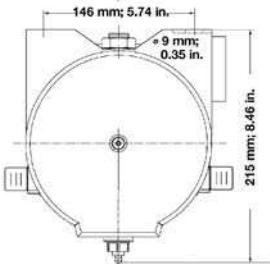
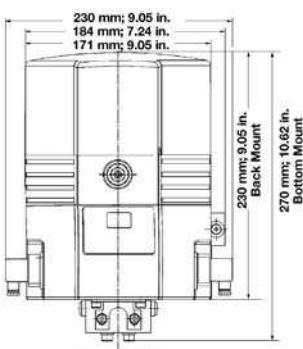
QLS 301/311 for Remote Control

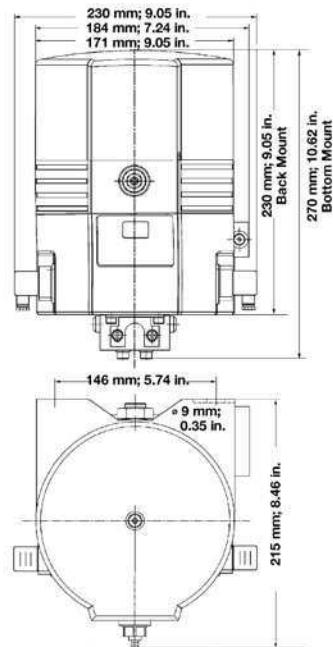
The QLS 301/311 for Remote Control allows customers to be in control of the lubrication process. The 24 VDC models monitor system cycling with a proximity switch. An external timer or PLC controls the interval between lube cycles. The 120 VAC models have no cycle monitoring and are on/off controlled by the user's external timer or PLC. The minimum pause time requirements should be followed when setting up the external controller.

Operating Voltage:	24 VDC 120 VAC, 50/60 Hz
Operating Current:	24 VDC / 1.0 A 120 VAC / 1.0 A
Operating Temperature:	-10° to 158°F / -25° to 70°C
Number of Outlets:	6, 8, 12 or 18
Reservoir Capacity:	61 in³ / 1.0 L
Protection:	NEMA 4
Minimum Pause Time:	4 min. DC models / 20 min. AC models
Maximum Operating Time:	25 min. DC models / 15 min. AC models
Timer Memory:	Indefinite
Maximum Operating Pressure:	Grease: 3000 psig / 205 bar Oil: 1160 psi / 80 bar
Output per Outlet & Cycle:	approx. 0.012 in³ / approx. 0.2 cm³
Lubricant:	up to NLGI 2 grease or oil with at least 40cSt.
Weight	12.5 lbs. / 5.7 kg

Model Specifications

Model No.	Valve Type	Valve Mount	Volt	Lubricant
P301 31411110	SSV6	Back	24 VDC	Grease
P311 31411110	SSV6	Back	24 VDC	Oil
P311 61411110	SSV12	Back	24 VDC	Oil
650-40768-3	SSV8	Bottom	120 VAC	Grease
650-40768-4	SSV12	Bottom	120 VAC	Grease
650-40768-5	SSV18	Bottom	120 VAC	Grease
650-40765-4	SSV8	Bottom	120 VAC	Oil





QLS 421

Accurate lubrication without the need for continuous power—that's what over-the-road trailers need. That's exactly what Lincoln's QLS 421 supplies. With a unique controller card that keeps track of the time a trailer is in use by monitoring its vibration, the QLS 421 delivers the precise lubrication an OTR trailer requires exactly when it's needed—by using the power of the trailer's brake lights.

Because it doesn't need power to monitor the time between lubrication events, the QLS 421 is ready when its controller card says "go." And the QLS 421 keeps lubricating each time the trailer's brakes are applied until its controller card adds up the "on times" and determines that the pre-set time for a complete lubrication cycle has been reached. The QLS 421 features an enhanced stirring paddle to help prevent grease separation in applications with long refill intervals.

Operating Voltage:	12 and 24 VDC
Operating Current:	12 VDC / 2.0 A 24 VDC / 1.0 A
Operating Temperature:	-10° to 158°F / -25° to 70°C
Number of Outlets:	6, 12 or 18
Reservoir Capacity:	61 in³ / 1.0 L
Protection:	NEMA 4
Time Between Cycles:	1 hour to 16 hours
On Time Range:	1 to 32 min.
Timer Memory:	Indefinite
Maximum Operating Pressure:	3000 psig / 205 bar
Output per Outlet per Valve Cycle:	approx. 0.012 in³ / approx. 0.2 cm³
Lubricant:	up to NLGI 2 grease
Weight	12.5 lbs. / 5.7 kg

Model Specifications

Model No.	Voltage	Valve Type	Reservoir Size (L)	Valve Mount	Cable
P421 91402531	24 VDC	SSV18	1 liter	Back	19 feet 6 meters
P421 61202531	12 VDC	SSV12			
P421 91202531		SSV18			
P421 61222531		SSV12	2 liter		



HTL Hydraulic Lubricator Pump for Hammers

- Delivers precise lubrication every time the hammer cycles
- Increase productivity—no work interruption
- Reduces machine repairs and replacement costs

Arms and breakers move constantly and exert enough force to demolish a building or repair roads in a tough environment filled with grit and debris. OEMs recommend bearing lubrication of that hammer every two hours to achieve optimal performance and to hold down maintenance and repair costs. However, deadline-driven operators rarely halt work to grease the hammer, which can lead to breakdowns that grind down productivity and inflate repair expenses. Lincoln's HTL Pumps make precise, consistent lubrication a reality. Now your operator can lubricate the hammer without leaving the cab. The pumps attach directly to the hammer, and your operator, with the push of a pedal, automatically sends a single shot of hydraulic fluid to the pump. Then the pump gives one shot of grease to lubricate the bearing points. When the operator's foot comes off the pedal, pressure releases the spring in the pump so it's ready to lubricate again.

Applications: construction OEMs, hydraulic hammer retrofits, demolition attachments and medium to larger breakers/hammers

- Withstands vibrations of an operating hammer
- Travels with hammer, perfect for rental equipment or hammers used on various machines
- Hydraulic power supply
- Pedal-actuated
- Attached grease fitting allows for manual filling and fast priming of pump
- Uses standard 14.5-ounce grease cartridges and handles chisel paste
- To adjust output, metering plugs are available (0.006 in³ [0.1cm³] to 0.031 in³ [0.5cm³])
- Convenient visual low level indicator

Operating Temperature:

-10°F to +180°F / -23°C to +80°C

Hydraulic Port:

SAE #4 (1/8-20 UNF) O-ring

Pump Outlet:

SAE #4 (1/8-20 UNF) O-ring

Weight (Empty):

16.3 lbs. / 7.4 kg

Weight (Full):

17.3 lbs. / 7.8 kg

Specifications

Model No.	85429	85425	85424	85414
Hydraulic Ratio at Max. Output and Pressure*	2.4:1			0.7:1
Max. Hydraulic Operating Pressure:	2600 psig (112 bar)		5000 psig (345 bar)	
Max. Recharge (or Vent) Pressure:	400 psig (28 bar)	1100 psig (75 bar)	600 psig (41 bar)	1100 psig (75 bar)
Max. Lube Outlet Pressure:			6500 psig (450 bar)	
Output per Stroke (Std. Metering Plug)	.018 cu. in. (0.3 cc) Std. .006 - .031 cu. in. (0.1 - .5 cc) Optional*		.031 cu. in. (0.5 cc) Std. .006 - .031 cu. in. (0.1 - .5 cc) Optional*	
Grease Reservoir Volume:			14.5 oz.	

*Optional metering plugs are available for different output volume. See Pump Output Adjustment chart below.

Pump Output Adjustment Metering Plug

Model No.	Output per Stroke
271924	0.006 in ³ / 0.1 cm ³
271925	0.012 in ³ / 0.2 cm ³
271926 *	0.018 in ³ / 0.3 cm ³
271927	0.031 in ³ / 0.5 cm ³

*Note: Standard plug included with pump

203 Pumps Designed for Hammer Applications*

Model No.	Description	Low Level	Timer	Element	Reservoir	Voltage	Pressure Relief Valve
271374	P203-4XNBO-1C7-24-1A1.10	No	No	7mm Chisel	4L	24	Yes
272633	P203-4XLBO-1C7-24-2A1.10	Yes	No	7mm Chisel	4L	24	Yes
272643	P203-4XLBO-1C7-12-2A1.10	Yes	No	7mm Chisel	4L	12	Yes
273426	P203-4XLBO-1K5-24-2A1.10	Yes	No	5mm Std.	4L	24	Yes
272632	P203-8XLBO-1C7-24-2A1.10	Yes	No	7mm Chisel	8L	24	Yes
273422 **	P203-8XLBO-2K7-24-2A1.10	Yes	No	2 x 7mm Std.	8L	24	Yes
273425	P203-8XLBO-1K7-24-2A1.10	Yes	No	7mm Std.	8L	24	Yes

* Chisel paste compatibility must be confirmed by Lincoln technical.

** Pump comes with 272634 kit installed for double output



203 Hammer Pump Accessories

Model No.	Description
272634	Double output kit (front and side)
274149	Triple output kit
600-28750-1	7mm chisel paste element
274847	Double output kit (side to side)

Push-Button Switches



Model No.	Description	Color	Voltage
664-36070-5	Illuminated Manual Switch	Green	12 VDC
664-36070-6	Illuminated Manual Switch	Green	24 VDC
664-34005-5	Illuminated Manual Switch	Red	12VDC
664-34005-6	Illuminated Manual Switch	Red	24 VDC
237-13381-2	Replacement Bulb		12 VDC
237-13381-3	Replacement Bulb		24 VDC
236-10580-1	Replacement Lens	Green	
236-14261-9	Replacement Lens	Red	



Pressure Relief Valves

Model No.	Pressure Relief Setting	Supply Line Connection
270864	4000 psi / 270 bar	1/8" NPT (female)
624-28894-1	5076 psi / 350 bar	6 mm Compression Nut*
624-28895-1	5076 psi / 350 bar	8 mm Compression Nut
624-28931-1**	5076 psi / 350 bar	6 mm Quicklinc*
304-19614-1	Adapter	6 mm Stem x 1/8" NPT (female)

* 6 mm x 1/8" NPT supply line adapter (Model 304-19614-1) can be used to convert supply line connection to 1/8" NPT for these models.

** Return to tank

Note: Model 226-14105-5 (psi relief adapter) is required for 4-, 8- and 15-liter pump models



Proximity Switches

Electric grease pumps with Feedback Monitoring require purchase of one of the following proximity switches:

Model No.	Description	Use with Corresponding Pump Connection
519-34339-3	Bayonet 3 m (9.8') cable length	4 - bayonet quarter turn
519-34339-4	Bayonet 7 m (23.0') cable length	4 - bayonet quarter turn
519-34271-2	3 m (9.8') with open end	
519-34271-7	AMP 3 m (9.8') cable length	4 - AMP (existing field models)
519-34271-8	AMP 7 m (23.0') cable length	4 - AMP (existing field models)

Pump Elements*



Model No.	Piston Diameter	Lubricant Output	Lubricant	Max. Operating Pressure	Connection Thread
600-26875-2	5 mm (5K)	.122 in³/min / 2 cm³/min	Oil or Grease	5000 psi / 350 bar	G 1/4"
600-26876-2	6 mm (6K)	.171 in³/min / 2.8 cm³/min	Oil or Grease		
600-29304-1	6 mm		Beverage Industry Grease or Oil **		
600-26877-2	7 mm (7K)	.244 in³/min / 4 cm³/min	Oil or Grease		
600-28750-1	7 mm (7C)		Hammer Chisel Paste ***		
600-29110-1	7 mm (S7)		Silicon Based Grease		
600-29185-1	7 mm (B7)		Silicon Based Grease ****		
655-28716-1	7 mm (KR)	.04 in³/min to .18 in³/min 7 cm³/min to 3 cm³/min	Oil or Grease *****		

* Grease and chisel paste compatibility should be confirmed with Lincoln Technical

** Galvanized pump elements to withstand corrosion

*** Special element designed to be used for applications on hydraulic hammers

**** With bypass check valve

***** Adjustable lubricant output pump element.

Model 85830 ALS Fill Pump

Air-operated grease pump designed to fill pump reservoirs from drums. Includes pump, drum cover, high pressure hose, outlet swivel, control valve and universal swivel, whip hose, coupler and universal follower. For use with 120 lb. drums (not included). Fill nipple is not included and must be ordered separately.

Model No.	Bare Pump	Pump Ratio	Max. Working Pressure	Max. Air Pressure	Air Inlet	Lube Outlet	Hose
85830	V325120000	25:1	3750 psi 258 bar	150 psi 10.3 bar	3/8" NPT (female)	1/4" NPT (female)	3/8" ID x 10' SAE 100R2 high pressure hose (4000 psi/275 bar working pressure)

ALS Fill Pump Accessories

Model No.	Description
277059	Fill nipple (long) for 203 pump
277057	Grease coupler, 3/8" NPTF (female) inlet
674	Two wheel hand cart (to make package portable)
80895	Caster base (to make package portable)

Quicklub Pump Accessories

Model No.	Description
638-37549-1	Manual grease filler pump—2-liter
638-37549-2	Manual grease filler pump—4- and 8-liter and 2-liter flat type
246322	Remote push-button manual lube upgrade kit for pumps with square DIN connectors (field replacement only)
256276	Remote push-button manual lube kit for pumps with bayonet round connectors (6 wire cord)
273921	Universal quickfill adapter for 2-, 4- and 8-liter pumps
538-36763-5	Fill adapter for 4- and 8-liter pumps
538-36763-4	90° fill adapter for 4- and 8-liter pumps
538-36763-1	Fill adapter for 2-liter pumps
241052	7.5 Amp fuse
241053	Standard fuse holder
276409	Heavy duty fuse holder
664-34195-9	45' 5 wire power cord (round bayonet)

85830
shown with drum
(not included)

638-37549-1

273921

Lubricant flows through supply lines between the pump and divider valves, then through feed lines between the divider valves and the bearing. Tubing and/or pipe sizes are determined after considering both the length of the line and the specific lubricant intended for use in the system.

Your Lincoln representative can assist you in the proper selection of supply and feed line material to optimize your application.

Listed below is a simplified outline of the installation components offered. For a complete listing of products, please refer to the pages in this catalog entitled Fittings, Adapters and Accessories. Additional installation componentry can be found in the Installation Components Catalog.

TUBING

Hydraulic, Steel, Stainless Steel and Nylon
Single and Multiple Tube Clamps
Heavy-Duty, Standard-Duty, Threaded Sleeve and Snap-On Coupler Tube Fittings
Quicklinc™ Tubing Adapter
Zerk-Lock™ Grease Fitting Adapters
Non-Metallic

PIPING

Seamless
Continuous Welded
Forged Fittings
Malleable Iron Fittings
316 Stainless Steel Pipe and Fittings
Stainless Steel Fittings
Galvanized Pipe, Threaded Plug and Fittings

ACCESSORIES

Supply, Feed and Bulk Feed
Line Hose
Air Hose
Kits for Hose Repair
Heavy-Duty Air Line Quick Disconnects

AIR CONTROL AND ACCESSORIES

Manual Shut-Off Valves
Pressure Gauges
Lubricant Filters and Strainers

AIRCARE™ AIR PREPARATION SYSTEMS

Modular Air Line Filters, Regulators and Lubricators
Integrated/Modular Filter/Regulator with Gauge
Modular Air Line Combination Units
High-Capacity Air Line Filters, Regulators and Lubricators
High-Capacity Air Line Combination Units
Miniature Air Line Components—Air Line Filter, Regulator and Lubricator
Miniature Air Line Combination Units

Modular Air Line Equipment Accessories:
Lockout Valve, Quick Clamp, Quick Clamp Wall Mounting Bracket, Porting Block, Quick Mount Pipe Adaptors, Manifold Block, Pressure Switch, Panel Nut, Wall Mount Bracket, Tamper Resistant Cover and Seal Wire

Air Line Equipment Accessories:
Wall Mount Bracket, High Capacity; Mounting Bracket and Nut, Miniature; Pressure Gauges

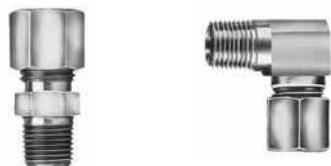
PIPE FITTINGS

Reducing Bushings
Nipples
Couplings
Reducing Couplings
Street Ells
Tees
Crosses
Adapter Unions
Elbows
Pipe Fitting Adapters
Supply Line Swivels
Feed Line Swivels
Anchor and Junction Blocks



Divider Valve Mounting Accessories

Model No.	Description
246416	Valve mounting bracket
51304	1/4" nylon locknut for valve mounting
247023	Grade 8, 1/4" valve mounting bolt
239499	Template for divider valve mounting (6, 8, 10 and 12 outlet valves)
252807	Valve mounting block for welding
249987	6mm bolt to be used with the 252807
272569	Lock washer for valve mounting



Standard Compression Fittings for Steel or Nylon Tubing

Model No.	Description
241290	1/4" tube x 1/8" NPT male straight fitting
241293	1/4" tube x 1/8" NPT male 90° fitting



Divider Valve Outlet Adapters for 1/4" O.D. Steel or Nylon Tubing Compression-Style With Check Valve

Model No.	Description
68462	Ferrule 1/4"
404-22602-1	Compression nut
504-31606-3	Check valve body
404-22581-2	Ferrule



Divider Valve Outlet Adapters for 1/4" O.D. Steel or Nylon Tubing Compression-Style Without Check Valve

Model No.	Description
404-20236-4	Compression nut
404-23668-1	Compression nut (stainless steel)
404-22581-2	Ferrule



Divider Valve Outlet Adapters for 1/8" I.D. Hose

Model No.	Description
404-22581-2	Ferrule
239857	Valve outlet adapter with check (1/8" NPT female)
239959	Valve outlet adapter without check (1/8" NPT female)



For SSVM Valves—Compression Fitting

Model No.	Description	Material	Feed Line Connection
13112	Compression nut	Brass	1/8" Steel or Nylon Tube
419-22990-1	Adapter		
419-22618-2	Ferrule		
519-30583-1	Check valve body		

NOTE: Quicklub® adapters without check valves are for use in oil systems with open tube (minimal backpressure). Quicklub adapters with check valves are for use in all automated systems.

Zerk-Lock™ and Quicklinc® Make Connecting Fast

Quicklinc line connectors and adapters link metering valves and flexible lubrication lines. Outlet adapters with check valves are used in automated systems, while models without a check valve are used in manual systems—called single point kits—where a divider valve connected to several lubrication points is fed with a grease gun.

The Quicklinc tube splicer union is a great way to fix a broken line without replacing the whole line. Just clean the line ends, plug them into the connector and the line's repaired.

Quicklinc lube point connectors are ideal when fittings can be removed easily. All three varieties—straight, 90-degree elbow and elbow swivel—connect much faster than using a typical screw connector, which requires assembly of four components.

Zerk-Lock is Lincoln's other great time-saving connector. When removing a fitting is not practical, the Zerk-Lock grease fitting adapter is the answer. It connects any 1/8-inch male tube adapter directly to a grease fitting. Even when a fitting is self-tapered or pressed in, there's no need to drill it out and tap new threads with Zerk-Lock—a tremendous time saving.

Quicklinc and Zerk-Lock are designed to work well together. It's as simple as:



1. Install a Quicklinc into the divider valve and insert the line



2. Place a Zerk-Lock onto the fitting



3. Seal and tighten Zerk-Lock using a hammer and staking tool



4. Then thread a Quicklinc completely into the Zerk-Lock



5. And plug the tube into the Quicklinc adapter

Quicklinc Push-In Style Fittings for Nylon Tubing



Model No.	Description
244047	1/4" tube x 1/8" NPT male straight fitting
244048	1/4" tube x 1/8" NPT male 90° fitting
243699	1/4" tube x 1/8" NPT male 90° swivel fitting
244053	1/4" tube x 1/4 -28 male 90° swivel fitting
244054	1/4" tube x 1/4 -28 male 90° fitting
244055	1/4" tube x 1/4 -28 male straight fitting
244056	1/4" tube x 6x1 mm male 90° fitting
244057	1/4" tube x 6x1 mm straight fitting
244058	1/4" tube x 1/4" tube splicer union

Divider Valve Outlet Adapters for 1/4" O.D. Nylon Tubing Quicklinc Push-In Style

Model No.	Description
244883	Valve outlet fitting with check M10x1 thread
244884	Valve outlet fitting without check M10x1 thread

Divider Valve Outlet & Inlet Adapters for 1/8" I.D. Hose Quicklinc Push-In Style with Check

Model No.	Description
272658	Valve outlet fitting with check. Use with 272401 and 272394 hose stud. M10x1 thread
272659	1/8" NPT male straight fitting. Use with 272401 and 272394 hose stud.

IMPORTANT: Use the valve adapters for connecting the 1/8" high pressure hose (incl. hose stud with groove) to the main divider valve. The collet of the adapter is not knurled and has a wide collar.

Model No.	Description
432-24313-1	Protective Quicklinc rubber boot



Divider Valve Outlet Closure Plug

Model No.	Description
303-17499-3	Valve outlet closure plug (gasket not required)
303-19346-2	Stainless steel outlet closure plug (gasket not required)

1/8" Supply and Feed Line Hose

Min. Burst	Lube Working Pressure	Nominal Size		Minimum Bending Radius	Construction	Temp.
		ID	OD			
10,000 psig 690 bar	4000 psig 276 bar	1/8"	5/16"	3 1/2"	Nylon Tube Dacron Braid Polyurethane Cover	-40°F to +212°F

Model No.	Description (1/8" ID hose)
241286	26 ft. (7.92 m) coil grease filled
241287	35 ft. (10.66 m) coil grease filled
241288	40 ft. (12.19 m) coil grease filled
252717	200 ft (60.96 m) coil non-grease filled
277226	2250 ft. (685.8 m) spool non-grease filled
276395	40 ft. (12.19 m) grease filled with quick wrap protection installed on hose

Hose Ends for Use with Quicklinc Fittings for 1/8" ID Hose

Model No.	Description
272394	Hose stud, 90° (to be used with 272427)
272401	Hose stud, straight (to be used with 272427)
272427	Threaded sleeve
274238	Stainless steel hose stud sleeve
274239	Stainless steel straight hose

Hose Ends for 1/8" I.D. Hose

Model No.	Description
241289	1/8" NPT swedge on hose stud (Requires swedging tool)
246002	1/8" NPT field installable hose coupling (swedging tool not required)
276954	1/8" NPT swedge on hose fitting with swivel (requires swedging tool)

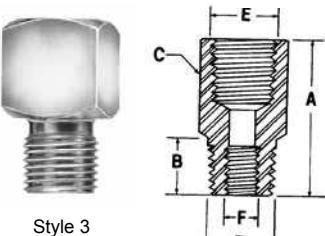
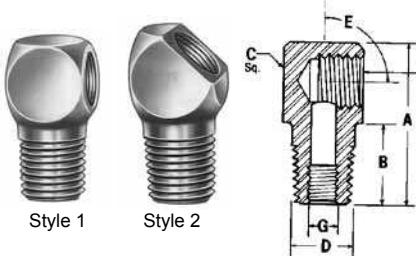
Hose End Connecting Tools

Model No.	Description
241238	Hose Swedging Tool
274062	Hand vise for quick connect and reusable hose ends

Feed Line Nylon Tubing

Model No.	Description	O.D. In.	Wall Thickness in. / mm	Working Pressure		Minimum Bending Radius	Temp.
				psig	bar		
242025	25 ft./7.6 m coil grease filled	1/8" black	.050 / 1.27	625	42.5	.875 / 22.2	-65°F to +150°F
242050	50 ft./15.2 m coil grease filled						
62357	100 ft./30.5 m coil non-grease filled						
247022	500 ft./152.40 m coil non-grease filled						
274047	25 ft./7.6 m coil grease filled	1/8" grey	.062 / 1.575	500	34.5	0.5 / 12.7	-65°F to +200°F
274048	50 ft./15.2 m coil grease filled						
274049	100 ft./30.5 m coil non-grease filled						
274050	500 ft./152.4 m coil non-grease filled						

NOTE: Burst pressure 2500 psi (172 bar)



Pipe Thread Adapters

Model No.	Style	A	B	C	D	E	F
13129	1	1 1/2	7/8	5/8	1/8 NPTF	90°	1/8 NPTF
20024	3	7/8	5/16	1/2 hex	1/4-28 Taper	1/8 NPSF	—
20026	1	1 3/16	5/16	1/2 sq.	1/4-28 Taper	90°	1/8 PTF
20028	2	1	15/32	1/2 sq.	1/8 PTF	45°	1/8 PTF
20029	1	1	15/32	1/2 sq.	1/8 PTF	90°	1/8 PTF
247616	2	1	17/32	1/2 sq.	1/4-28 Taper	45°	1/8 PTF
276631	1	1	5/8	1/2 sq.	1/4-28 Taper	90°	1/8 NPTF
20012	1	1 5/16	5/8	1 1/16 sq.	1/4 NPT	90°	1/4 NPT

Steel Tubing

Model No.	Size (O.D. x Wall)			Working Pressure	Type
	O.D.	Wall	Length		
62175	1/8	.020"	25 ft/7.6 m	4400 psig / 300 bar	Coil

Nylon Tubing

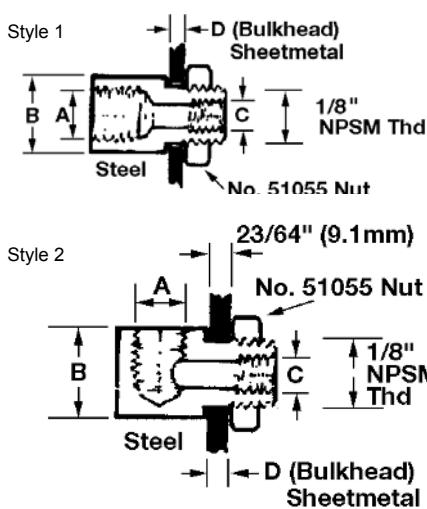
Model No.	Size (O.D. x Wall)			Working Pressure	Minimum Bending Radius
	O.D.	Wall	Length		
62256			25 ft/7.6 m		
62278	1/8"	.026"	100 ft/30.5 m	625 psig / 42.5 bar	.375"
62956			500 ft/152 m		

Grease Fittings

Model No.	Description
700506	1/8" NPT threaded straight leakproof fitting
242125	Plastic grease fitting cap

Fittings, Adapters and Installation Accessories

Model No.	Description
10130	1/8" NPT male x 1/8" NPT male nipple
10181	1/8" NPT male x 1/8" NPT female adapter, 1 1/8" long
10182	1/8" NPT male x 1/8" female adapter, 1 3/16" long
14562	2 outlet 1/8" NPT x 1/8" NPT junction block
14563	4 outlet 1/8" NPT x 1/8" NPT junction block
81583	Junction Block, 1/8" NPT
14570	Anchor block
276407	1/8" NPT male x 1/8" NPT female x 1/8" NPT female
10461	1/4" NPT male x 1/8" NPT female reducing bushing



Bulkhead Adapters

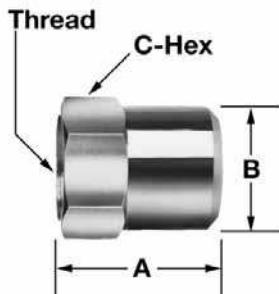
Model No.	Style	A	B	C	D
13154	1	1/8" PTF	1/2" / 12.7 mm	1/4" -28	3/16" / 4.8 mm
14054	1	1/8" PTF	1/2" / 12.7 mm	1/4" -28	1/4" / 6.4 mm
13155	2	1/8" PTF	1/2" / 12.7 mm	1/4" -28	3/16" / 4.8 mm
244225	1	1/8" NPT	7/8" hex	1/8" NPT	7/8"
51055					1/8" N.P.S.M. thread



Metric Adapters*

Model No.	Description
20042	M6X1 male x $\frac{1}{8}$ " NPSF female straight
20043	M6X1 male x $\frac{1}{8}$ " NPSF female 90°
244201	$\frac{1}{8}$ " BSPT male x $\frac{1}{8}$ " NPT female thread
304-19166-1	M6X1 male x $\frac{1}{4}$ " - 28 SAE female
304-19165-1	M8X1 male x $\frac{1}{4}$ " - 28 SAE female
304-19164-1	M10X1 male x $\frac{1}{4}$ " - 28 SAE female
241650	$\frac{1}{8}$ " BSPT male x $\frac{1}{8}$ " NPT female thread - stainless steel
273482	M8X1 male x $\frac{1}{8}$ " NPT female straight
277307	M8X1 female x M8X1.25 male 90°

* Contact Lincoln for a complete metric Quicklub catalog.



Zerk-Lock™ Grease Fitting Adapter

Connects any $\frac{1}{8}$ " NPTF male tube adapter directly to a standard grease fitting. Aluminum, carbon steel construction; fluorocarbon elastomer seal.

Model No.	Thread	Dimensions		
		A in./mm	B in./mm	C-Hex in. / mm
270784	$\frac{1}{8}$ " NPSL Female	.625 / 15.9	.500 / 12.7	.500 / 12.7

Note:

Zerk-Lock, with a straight female thread, is designed to accept a tube connector with a tapered male thread. This tapered to straight thread engagement is required for secure seal.

Model No.	Description
247615	Staking tool for the 270784 Zerk Lock fitting

Swivels



Model No.	Description
91048	$\frac{1}{8}$ " NPT male x $\frac{1}{8}$ " NPT female 90° swivel
91308	$\frac{1}{8}$ " NPT male x $\frac{1}{8}$ " NPT female straight swivel

Street Tee

Model No.	Description
276407	$\frac{1}{8}$ " NPT male x $\frac{1}{8}$ " NPT female x $\frac{1}{8}$ " NPT female

Adapter Unions



Model No.	Description
66649	$\frac{1}{8}$ " NPT male x $\frac{1}{8}$ " NPT female swivel adapter union

Installation/Assembly Tools

Model No.	Description
226-12508-5	Plastic Tube & Hose Cutter
226-13095-7	Replacement Blade
241238	Hose Swedging Tool
274062	Hand vise for quick connect and reusable hose ends
532-31847-1	Tool for Loosening Quickline-Type Fittings
276424	Quicklub Spare Parts Kit



Quick Wrap for Line Bundling and Protection

Quick split wrap makes bundling and protecting lube lines fast. It's as simple as:



1. Place installation tool around group of lines



2. Slide Quick Wrap onto line bundle



Model No.	Description	Installation Tool Required	Approx. Number of $\frac{1}{4}$ " Tube	Approx. Number of $\frac{1}{8}$ " ID Hose
276389	$\frac{5}{8}$ " Quick Wrap (164' roll)	276634	2 - 5	2 - 3
276390	$\frac{3}{4}$ " Quick Wrap (100' roll)	276634	5 - 7	3 - 4
276391	1" Quick Wrap (65' roll)	276635	7+	4+

System Finishing Accessories



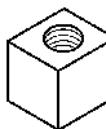
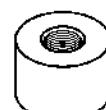
Model No.	Description
241110	Feed line bundling spiral wrap (10 ft. / 3 m length)
241120	Feed line bundling spiral wrap (20 feet/6m of spiral wrap)
276693	300 feet of spiral wrap
241055	Nylon ties (50 count poly bag) 7" / 177.8 m length
241054	Nylon ties (100 count poly bag) 7" / 177.8 m length
274097	20 feet/6m of $\frac{5}{8}$ " convoluted loom/split wrap
274098	20 feet/6m of $\frac{1}{2}$ " convoluted loom/split wrap
274099	20 feet/6m of $\frac{5}{8}$ " convoluted loom/split wrap

Pump Mounting Bracket and Hardware for 203 Series and QLS 300 & 400 Series Pumps



Model No.	Description
249520	Pump mounting bracket for 203/301/401/653 Series pumps
249209	12 mm x 1 $\frac{1}{2}$ " long grade 8 bolt for 249520 pump bracket (2 required)
274820	Pump and primary valve mounting bracket

Stand Offs for Mounting SSV Valves, P-Clamps and Angle Iron



Model No.	Description
252807	Valve mounting block for welding
249987	6mm bolt to be used with the 252807
249850	12mm round stand off
270928	12mm square stand off
249848	12mm x $\frac{5}{8}$ " long bolt to be used with 249850 and 270928
249851	10mm round stand off
249849	10mm x $\frac{5}{8}$ " long bolt to be used with 249851

These kits are designed to service up to 12 points from a single grease fitting utilizing our 12-point SSV series divider valve. The kits, which are available with or without a grease gun, include all componentry required to install the system. Kits are available primed with NLGI #2 grease or non-filled if a specific grade or type of grease is to be used.

These kits effectively replace the concept of using grease fittings mounted to a central manifold with a system that delivers precise amounts of lubricant, fully monitored with the divider valve's indicator pin. Kits include 100' 1/4" nylon tubing, 12 straight Quicklinc® tube fittings, 12 Zerk-Lock™ adapters, mounting clips and hardware.

Quicklub Centralized Lubrication Kits

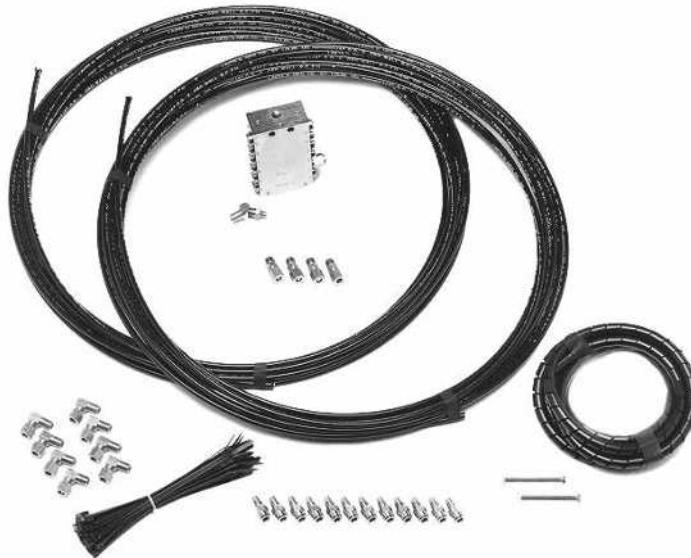
Single point kits contain all items required to install a system on your machinery, including a complete installation/service manual. The selection chart describes the models available to meet your specific needs.

Model No.	Selection Chart Description	Tubing
87311	Kit with single fitting for use with portable grease gun.	Non-filled
87312		Pre-filled
87412	Complete kit with grease gun for permanent mounting.	Pre-filled



Trailer Kits—Unassembled

Model No.	Description
239406	6-point manual QL kit
239408	8-point manual QL kit
239410	10-point manual QL kit
239412	12-point manual QL kit
239418	18-point manual QL kit

**Trailer Kits—Preassembled**

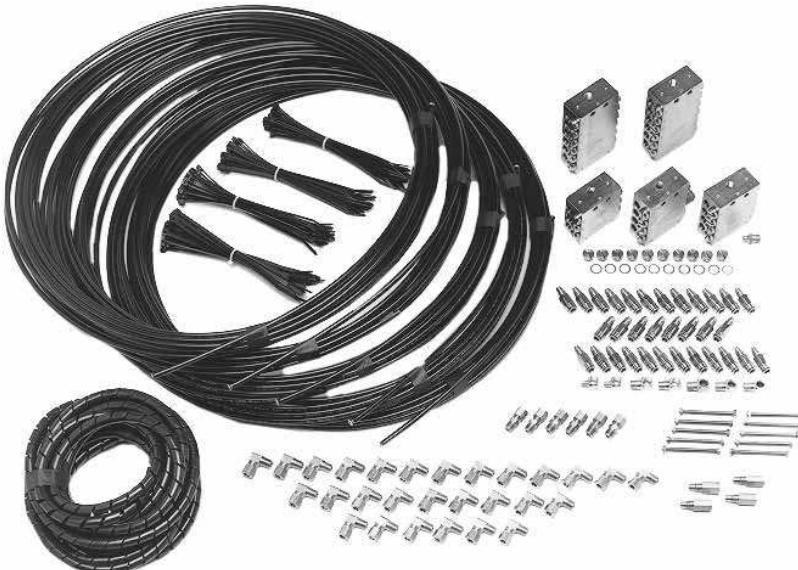
Model No.	Description
244512	12-point manual QL kit—tandem axle



Note: Above referenced kits require purchase of electric grease pump (see Pump section of this catalog) when fully automated system is desired.

**Tractor/Truck Kits
Unassembled Kits**

Description	Manual Kits	Automated Kits
24-point QL kit	241324	241124 (includes 241324 and 94012)
28-point QL kit	241328	241128 (includes 241328 and 94012)
32-point QL kit	241332	241132 (includes 241332 and 94012)
33-point QL kit	241333	241133 (includes 241333 and 94012)



Preassembled Manual Kits

Model No.	Description
247232	32-point manual preassembled kit



Note: Above referenced kits require purchase of electric grease pump (see Pump section of this catalog) when fully automated system is desired.

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