



Quicklub[®]

Centralized & Automated Lubrication Systems



Quicklub—Simple, cost-effective lubrication solutions for all of your machinery.

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 almost 90 years, 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 system 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.



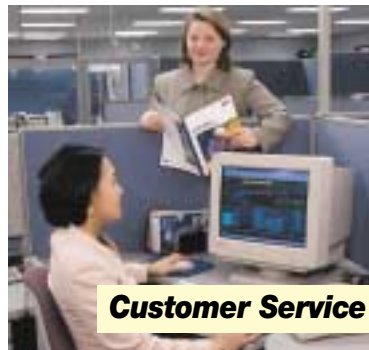
Industrial Solutions



Worldwide Support



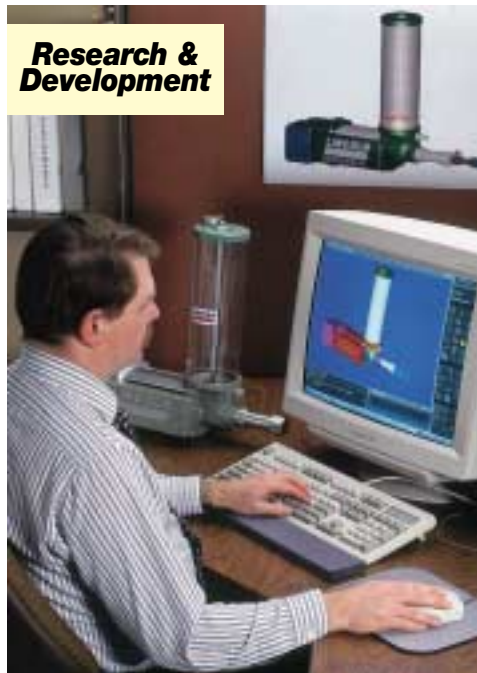
Quality Manufacturing



Customer Service



BearingSaver®



Research & Development



Mobile Equipment

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Quicklub® Lubrication Systems

Introduction to Quicklub®

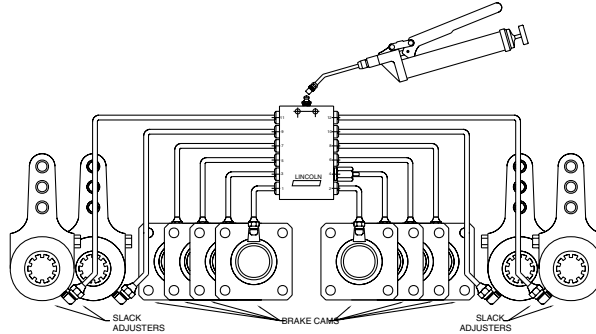


The Lincoln Quicklub system is designed to provide a relatively simple and inexpensive method of centralizing or automating the lubrication of machinery bearings.

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

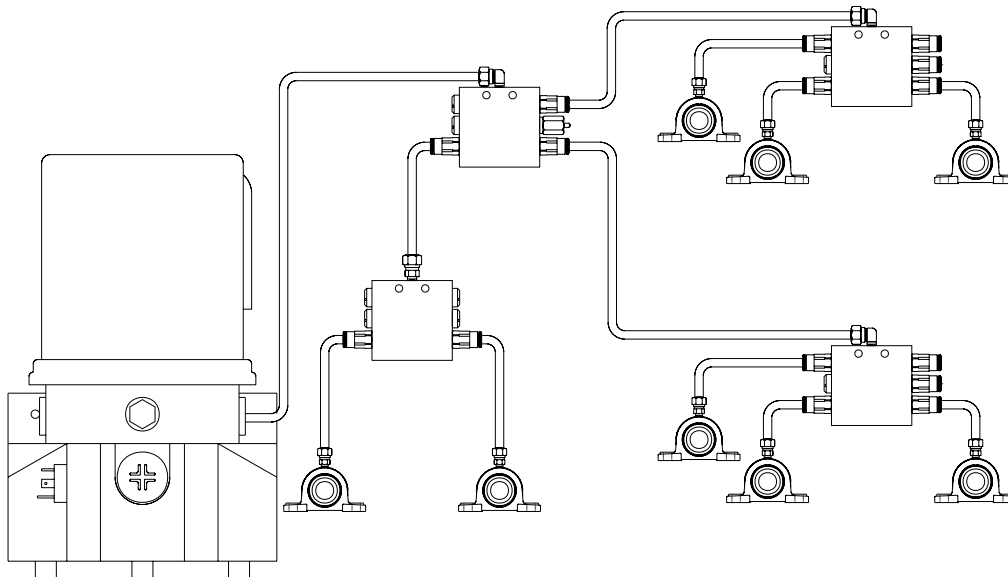
A Quicklub® centralized lubrication system typically dispenses measured amounts of lubricant to each point covered by the system. Even those hard to reach are assured of being properly lubricated and purged of contaminants.



System Operation

1. The lubricant is delivered to the divider valves through a hand or air-operated grease gun.
2. The divider valve dispenses lubricant in measured amounts directly to each point being covered by the system through the feedlines. Visual indication of cycle pin assures that all points are lubricated.

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

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

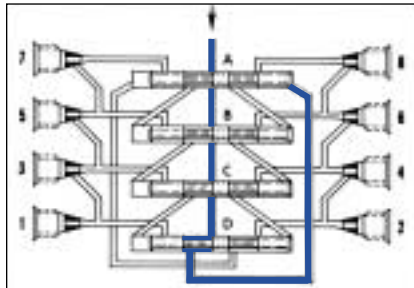


Figure 2

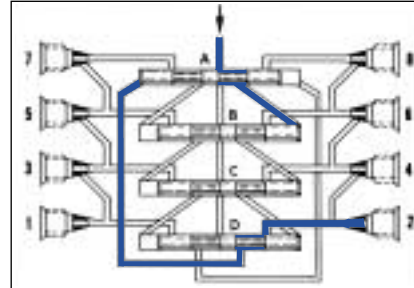


Figure 3

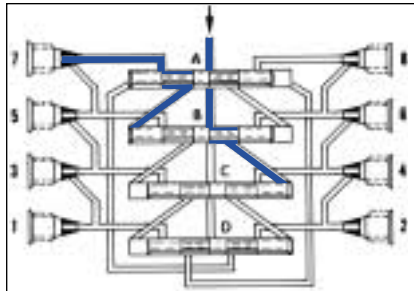
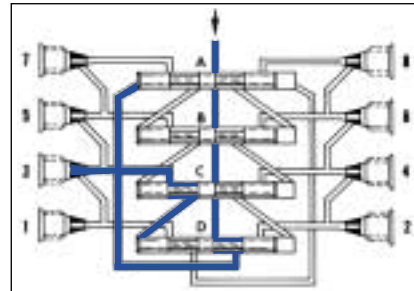


Figure 4



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).

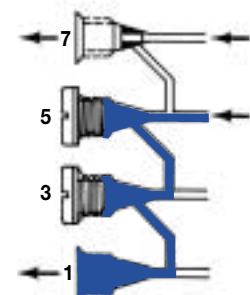
Lubricant flow against the left side of piston A begins the second half-cycle, which shifts pistons from left to right, dispensing lubricant through outlets 1,8,6 and 4 of the divider valve.

Crossporting a divider valve

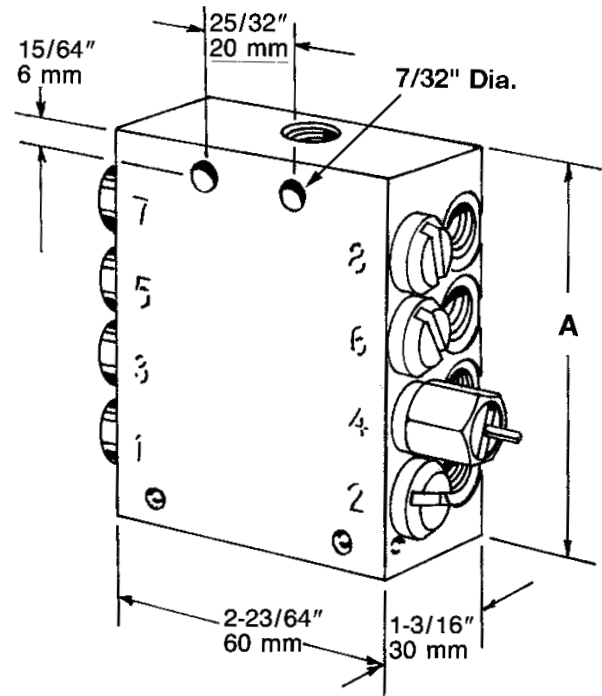
Outputs from adjacent outlets may be combined by installing a closure plug in one or more outlets. Lubricant from a plugged outlet is redirected to the next adjacent outlet in descending numerical order. Outlets 1 and 2 must not be plugged since they have no cross-port passage to the next adjacent outlet.

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 6 to 18 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 psig / bar	Output/Cycle per Outlet cu. in. / cc	Lubricant Inlet	Operating Temp.	
				min	max
Carbon Steel	4350 / 300	.012 / .2	1/8" NPTF(F)	-22°F (-30°C)	212°F (100°C)
Stainless Steel			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.		Max. No. 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	
619-28872-1		16	Yes	5.90 / 150
249231		18	Yes	6.50 / 165

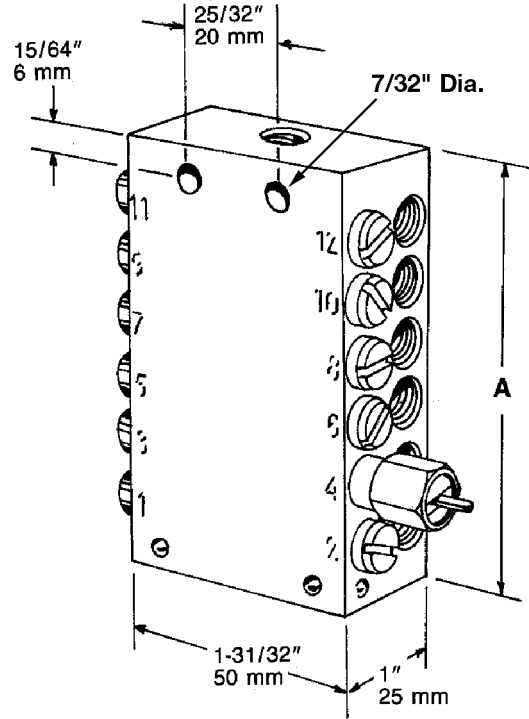
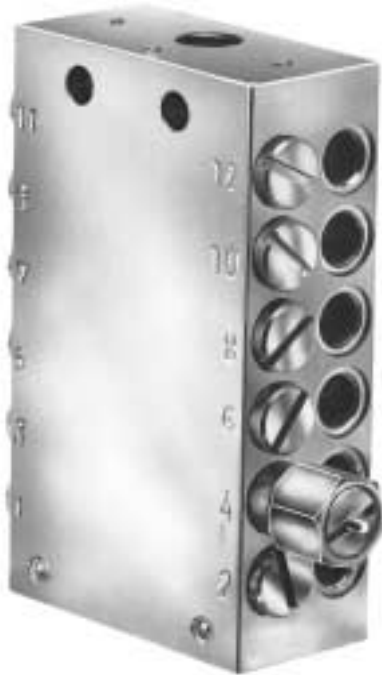
Note: You must use outlets 1 and 2 for each of the above referenced models to allow the system to operate properly with the exception of Model 249231, which requires utilization of outlets 17 and 18.

SSV Divider Valve Accessories

Model Number	Description
249010	Cycle switch for providing feedback monitoring for SSV systems

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 6 to 12 outlets, the SSVM series valve is used primarily in oil system applications.

Specifications:

Construction Material	Maximum Operating Pressure psig / bar	Output/Cycle per Outlet cu. in. / cc	Lubricant Inlet	Operating Temp.	
				min	max
Carbon Steel	1450 / 100	.0037 / .06	1/8" NPTF(F)	-22°F (-30°C)	212°F (100°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 in all systems.



Electric Grease Pumps (for Mobile Applications)

Supply up to NLGI #2 grease (depending on temperature) to divider valves.
Note: Customer must furnish a 12 or 24 volt D.C. power source.

Output/Min Per Element**:	.171 cu. in.	2.8 cc
Lubricant Outlet:	1/8" NPT (F)	
Max. System Operating Pressure:	3600 psig	248 bar
Enclosure Rating:	IP54*	
Operating Temperature Range:	Min. -13°F	-25°C
	Max. 158°F	70°C
Reservoir Fill Method:	By grease fitting	
Pressure Relief Valve:	4000 psi, +/- 250	276 bar, +/- 17

* 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.

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	two
8						3.6	four	
16						7.2	eight	
94024	24 VDC 2 Amp	2 minutes	30 minutes	1 hour	15 hours	4	1.8	two
8						3.6	four	
16						7.2	eight	

**Models 94124, 94224 and 94212
(for Industrial Applications)**

These industrial lube pumps are electrically operated and are used in progressive type (Quicklub or Modular Lube) automated lubrication systems. The pump consists of a nylon housing, electric gear motor, and a plastic reservoir with stirring paddle. One model incorporates a built-in timer, with the other two cycled by independent timers or machine controls. The pump's ability to develop high operating pressures allows it to supply lubricant up to NLGI #2 grease in most ambient temperatures.

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			
94124	24 VDC 2 Amps	2 min.	30 mins.	1 hour	15 hours	4	1.8	two
94224								
94212	12 VDC 3.5 Amps	Timer not included with Models 94224 and 94212. Select external timer from System Controls section						



Electric Grease Pumps with Low Level Sensor and Internal Microprocessor Controls for Feedback Monitoring

Supply up to NLGI #2 grease (depending on temperature) to divider valves.

Note: Customer must furnish a 12 or 24 volt D.C. power source.

Electrical Requirements

Input:	24 VDC @ 2 amps	
Enclosure Rating:	IP6K9K *	
Alarm Time:	30 minutes	
Interval between Lube Cycles:	Min. 4 minutes	Max. 60 minutes
Pump Output:	0.171 cu. in./min.	2.8 cc/min.
Outlet Connection:	1/8" NPT (F)	
Maximum Recommended Operating Pressure:	3600 psi	248 bar
Lubricant:	Greases up to 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	276 bar, +/- 17

Note: Do not use pump without pressure relief valve.
* Protected from water sprayed in all directions.

Model Specifications: 94222, 94422 and 94822

Model No.	Control Settings			Reservoir Capacity		
	Interval Between Lube Cycle		Alarm Time	lb.	kg.	liter
	Min	Max	Minutes			
94222	4 minutes	60 minutes	30	4	1.8	two
94422				8	3.6	four
94822				16	7.2	eight

Proximity Switches

Electric grease pump models 94222, 94422 and 94822 require purchase of one of the following proximity switches:

Model Number	Description
234-13178-2	3-meter (9.8 ft) cable length
234-13178-5	7-meter (23.0 ft) cable length

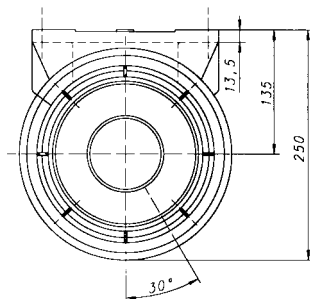
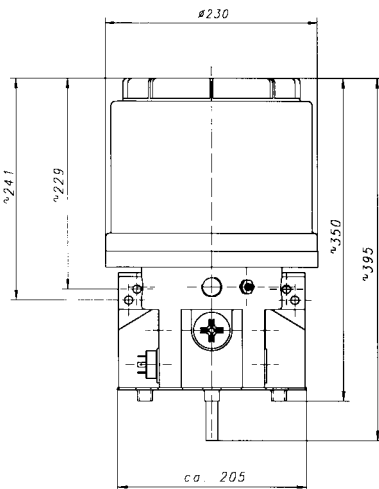




203 AC Models

Lincoln Industrial recently announced the newest addition to its worldwide product offering. This new 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	
Output voltage:	24 VDC	
Operating temperature:	-13° to 158°F	-25° to 70°C
Number and element size:	1 - 6mm	
Reservoir capacity:	2 or 4 liter	
Output per minute:	Approx. 2.8 cm ³ /min.	
Lubricant:	Greases up to NGLI #2 Oil with at least 40 cSt	
On time with PC board:	2 to 30 minutes	
Factory set on time:	6 minutes	
Factory set pause time:	6 hours	
Max. operating pressure:	5000 psi	350 bar
Connection thread:	G ¹ / ₄ " for 6mm or 8mm diameter tube	



Available Models Inventoried in St. Louis

Model No.	Description	Reservoir Capacity	Grease or Oil	Low level control	Printed circuit board
644-40716-2	P203-2XNBO-1K6-AC-1A1.01-V10	2 liter	Grease	No	Yes
644-40719-5	P203-4XNBO-1K6-AC-1A1.01-V10	4 liter	Grease	No	Yes
644-40719-6	P203-4YLBO-1K6-AC-1A1.01-V10	4 liter	Oil	Yes	Yes
644-40717-5	P203-2XNBO-1K6-AC-1A1.01	2 liter	Grease	No	No
644-40718-1	P203-4XLBO-1K6-AC-2A1.01	4 liter	Grease	Yes	No
644-40718-8	P203-4YLBO-1K6-AC-1A1.01	4 liter	Oil	Yes	No
644-40178-7	P203-4XNBO-1K6-AC-1A1.01	4 liter	Grease	No	No

These pumps do not come with the pressure relief valve. It must be ordered separately.

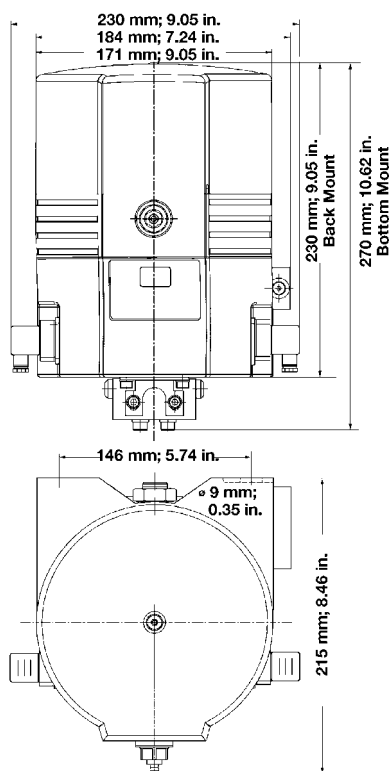
Model No.	Description
624-28894-1	Pressure Relief Valve 350-G 1/4" A-D6
624-28895-1	Pressure Relief Valve 350-G 1/4" A-D8
624-28931-1	Return to Reservoir Pressure Relief Valve

The 1/8" NPT adapter (part #249565) is not included and must be ordered separately, if required.



QLS 301

The newest automated Quickclub Lubrication System—the QLS 301—has it all. 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 automated lubrication “made easy.”



Operating Voltage:	12 and 24 VDC 120 and 230 VAC, 50/60 Hz	
Operating Current:	12 VDC	1.0 A
	24 VDC	1.5 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 in ³	1.0 L
Protection:	NEMA 4	
Lubrication Cycle Time:	20 min. to 100 hours	
Number of Cycles:	1 (with 6, 8 divider block 1, 2 or 3 cycles are possible)	
Timer Memory:	Indefinite	
Maximum Operating Pressure:	3000 psig	205 bar
Output per Outlet & Cycle:	approx. 0.012 in ³	approx. 0.2 cm ³
Lubricant:	NLGI 2 grease	
Weight:	12.5 lbs.	5.7 kg

Available Models

Model No.	Valve Type	Valve Mount	Volt	Cable
P301 31211151	SSV6	Back	12DC	30' / 10m
P301 31411151	SSV6	Back	24DC	30' / 10m
P301 42611111	SSV8	Bottom	120AC	none
P301 42811111	SSV8	Bottom	120AC	none
P301 61211151	SSV12	Back	12DC	30' / 10m
P301 61411151	SSV12	Back	24DC	30' / 10m
P301 62611111	SSV12	Bottom	120AC	none
P301 62811111	SSV12	Bottom	230AC	none
P301 91211151	SSV18	Back	12DC	30' / 10m
P301 91411151	SSV18	Back	24DC	30' / 10m
P301 92611111	SSV18	Bottom	120AC	none
P301 92811111	SSV18	Bottom	230AC	none

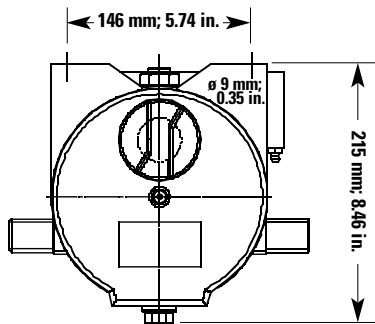
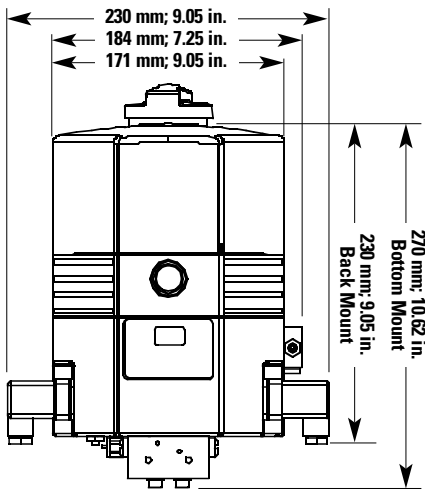
Note: All models include low level and remote contacts.



QLS 311

Our newest automated Quicklub oil lubrication system is compact, rugged, easy to monitor and maintain, easy to install and easy on the bottom line. 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 1.5 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 in ³ 1.0 L
Protection:	NEMA 4
Lubrication cycle time:	20 min. to 100 hours
Number of cycles:	1 (with 6, 8 divider block, 1, 2 or 3 cycles are possible)
Timer memory:	Indefinite
Max. operating pressure:	3000 psig 205 bar
Output per outlet & cycle:	approx. 0.012 in ³ approx. 0.2 cm ³
Lubricant:	oil
Weight:	12.5 lbs. 5.7 kg



QLS 311 Available Models

Model No.	Valve Type	Valve Mount	Volt	Cable
P311 31211151	SSV6	Back	12DC	30' / 10m
P311 61211151	SSV12	Back	12DC	30' / 10m
P311 91211151	SSV18	Back	12DC	30' / 10m
P311 31411151	SSV6	Back	24DC	30' / 10m
P311 61411151	SSV12	Back	24DC	30' / 10m
P311 91411151	SSV18	Back	24DC	30' / 10m
P311 42611111	SSV8	Bottom	120AC	none
P311 42811111	SSV8	Bottom	120AC	none
P311 62611111	SSV12	Bottom	120AC	none
P311 92611111	SSV18	Bottom	120AC	none
P311 62811111	SSV12	Bottom	230AC	none
P311 92811111	SSV18	Bottom	230AC	none

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



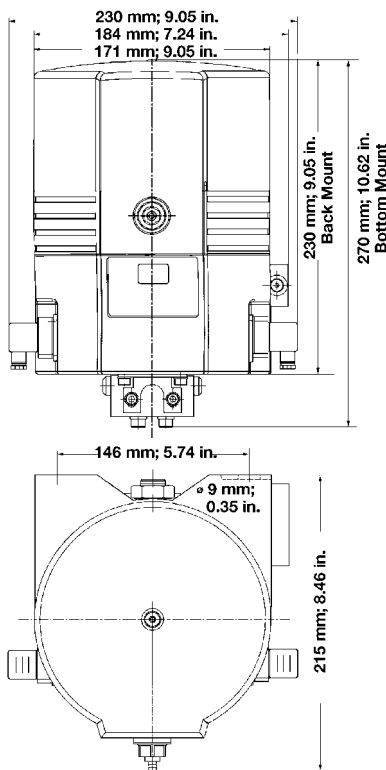
QLS 301/311 for Remote Control

The QLS 301/311 for Remote Control are the same as the original great products, but now customers are in control of the all-important lubrication process. This is especially useful for remote programming or a remote manual run. Both units come as 24 VDC models that monitor system cycling and low lubricant levels and in 120 VAC versions with no monitoring that are on/off controlled by the customer's PLC.

Operating Voltage:	24 VDC	
	120 VAC, 50/60 Hz	
Operating Current:	24 VDC	1.5 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 in ³	1.0 L
Protection:	NEMA 4	
Minimum Pause Time:	4 min.	
Maximum Operating Time:	4 min.	
Timer Memory:	Indefinite	
Maximum Operating Pressure:		
Grease:	3000 psig	205 bar
Oil:	1200 psi	80 bar
Output per Outlet & Cycle:	approx. 0.012 in ³	approx. 0.2 cm ³
Lubricant:	up to NLGI 2 grease or oil	
Weight:	12.5 lbs.	5.7 kg

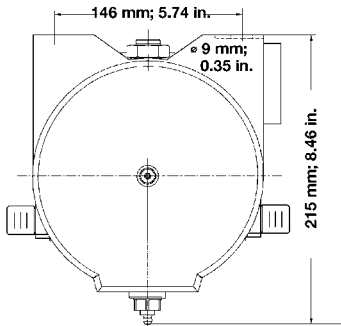
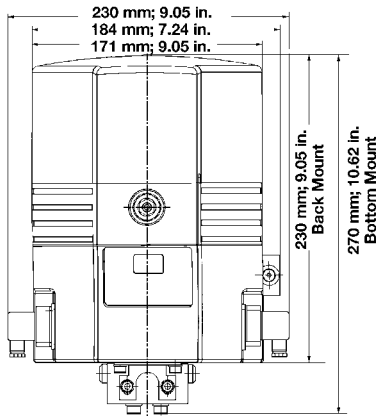
Available Models

Model No.	Valve Type	Valve Mount	Volt	Lubricant
P301 31411110	SSV6	Back	24 VDC	Grease
P301 61411110	SSV12	Back	24 VDC	Grease
P301 91411110	SSV18	Back	24 VDC	Grease
P311 31411110	SSV6	Back	24 VDC	Oil
P311 61411110	SSV12	Back	24 VDC	Oil
P311 91411110	SSV18	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
650-40765-5	SSV12	Bottom	120 VAC	Oil
650-40765-6	SSV18	Bottom	120 VAC	Oil



Quicklub® Lubrication Systems

Electric Grease Pumps—QLS 321 Series



QLS 321

Accurate lubrication without the need for continuous power—that’s what over-the-road trailers need. That’s exactly what Lincoln’s QLS 321 supplies. With a unique controller card that keeps track of the time a trailer is in use by monitoring its vibration, the QLS 321 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 321 is ready when its controller card says “go.” And the QLS 321 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.

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 in ³	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 in ³	approx. 0.2 cm ³
Lubricant:	up to NLGI 2 grease	
Weight:	12.5 lbs.	5.7 kg

Available Models

Model No.	Voltage	Valve Type	Valve Mount	Cable
P321 31210531	12 VDC	SSV6	Bottom	19 feet 6 meters
P321 31410531	24 VDC	SSV6		
P321 61210531	12 VDC	SSV12		
P321 61410531	24 VDC	SSV12		
P321 91210531	12 VDC	SSV18		
P321 91410531	24 VDC	SSV18		

203 Pump Accessories

Pressure Relief Valves



Model No.	Description
270864	Standard pressure relief valve with 1/8" NPT supply line adapter
624-28894-1	Pressure relief valve 350-G 1/4" A-D6
624-28895-1	Pressure relief valve 350-G 1/4" A-D8
624-28931-1	Return to reservoir pressure relief valve

Note: The 1/8" NPT supply line adapter (part #249565) is included only with Model 270864 and must be ordered separately if required for other relief assembly models.

Pump Elements



Model No.	Piston Diameter	Lubricant Output	Max. Operating Pressure	Connection Thread
600-26875-2	5 mm	.122 in ³ /min / 2 cm ³ /min	5000 psi 350 bar	G 1/4"
600-26876-2	6 mm	.171 in ³ /min / 2.8 cm ³ /min		
600-26877-2	7 mm	.244 in ³ /min / 4 cm ³ /min		
*600-28750-1				
**655-28716-1	7 mm	.04 in ³ /min / 18 cm ³ /min		

* Special hammer paste element for electric grease pumps to be used for applications on hydraulic hammers.

** Adjustable lubricant output pump element.

203 and 300 Series Accessories

Pump Reservoir Conversion Kits & Accessories



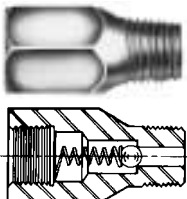
Model No.	Description
544-32022-1	4 liter conversion kit
544-32023-1	8 liter conversion kit
226-14105-5	Outlet adapter for 4 & 8 liter pump models
638-37549-1	Manual grease filler pump
246322	Remote push button manual lube kit
241419	12 VDC illuminated manual switch
241484	24 VDC illuminated manual switch
249565	1/8" NPT female supply line adapter

Accessory Kits for QLS 300 Series Pumps

Description	6/8 Outlets 550-36971-1 Quantity	12 Outlets 550-36971-2 Quantity	18 Outlets 550-36971-3 Quantity
SSV Quicklinec outlet fitting with check	8	12	18
Quicklinec straight fitting			
Zerk-Lock fitting	8	12	18
Zerk-Lock staking tool	1	1	1
1/4" nylon tubing	50 feet	150 feet	150 feet

Ball Type, Straight Check Valves for QLS 311

Add a check valve to the end of each feed lines (or at lube points) to prevent lines from siphoning.



Model No.	Pressure		Inlet	Outlet	Hex Material	Hex in.	Length in. / mm
	Max	Opening					
87817	7500 psig	20-70 psig	1/4" NPTF(M)	1/4" NPSF(F)	Carbon Steel	11/16"	1.38 / 35.1
87818	500 bar	1.5-5 bar	1/8" NPTF(M)	1/8" NPTF(F)		9/16"	1.19 / 30.2
130021-3	6000 psig 400 bar	31-70 psig 2-5 bar	1/8" NPTF(F)	1/8" NPTF(M)		1/2"	1.06 / 27.0



Model 604-26538-1 Grease Pump

Includes sheet metal reservoir, spring-loaded follower and filler fitting for refilling of reservoir with 81834 filler pump.

Model:	604-26538-1	
Lubricant:	Grease	
Number of Outlets:	8	
Ratio:	40:1	
Output/Stroke/Outlet:	.018 cu. in.	.3 cc
Reservoir Capacity:	3 lb.	1.5 liter
	91 cu. in.	1500 cc
Air Inlet:	1/8" NPTF Female	
Lube Outlet:	See note #2	
Maximum Lubricant Pressure:	3675 psig	250 bar
Reservoir Level Indication:	Rod	
Fill Method:	Through grease fitting	

- Notes:**
1. 3-way air valve required for pump operation.
 2. Model 604265381 has integrated Divider Valve with cycle indicator pin and must use Lincoln Industrial Quicklub Fittings. See Divider Valve section for part numbers.
 3. One pump stroke will cycle the eight outlet progressive divider valve approximately 1.7 cycles.



Model 604-27225-1 Oil Pump

Includes transparent reservoir.

Model:	604-27225-1	
Lubricant:	Oil	
Number of Outlets:	1	
Ratio:	40:1	
Output/Stroke/Outlet:	.16 cu. in.	2.6 cc
Reservoir Capacity:	3.8 pints	1.8 liter
	110 cu. in.	1800 cc
Air Inlet:	1/8" NPTF Female	
Lube Outlet:	1/4" O.D. tube connection	
Maximum Lubricant Pressure:	4400 psig	300 bar
Reservoir Level Indication:	Visual through transparent reservoir	
Fill Method:	Fill cap and screen	

Note: 3-way air valve required for pump operation.

The controls listed on the following two pages are designed to control the amount of time the selected system pump is on and the duration between lube events.



Model 84501 Program Timer—Solid State

Designed to control the lubrication cycle frequency of air operated single stroke pumps. Timer turns pump on/off at programmed intervals via a 3-way air solenoid valve (not included) installed in the air line to pump.

Off Time (Cycle Time)		On Time (Pumping Time)		Power Requirements	Approvals	Switch Capacity
Min	Max	Min	Max			
20 Sec.	24 Hrs.	10 Sec.	1 Min. 24 Sec.	120/230 VAC 50/60 Hz	UL, CSA	120 VAC, 5 Amps 230 VAC, 1.5 Amps

Built-In Program Options		Enclosure			Ambient Operating Temperature Range		
3 Hr. Program Memory	Prelube Function	Rating	Dimensions-in./mm			Minimum	Maximum
			Height	Width	Depth		
		NEMA #1	8¼ 210	6¼ 173	4¼ 125	0°F -18°C	130°F 54°C

Note: Refer to Technical Manual for a full explanation of available program options.



Model 84511 Economy Timer for Single Stroke Pumps

Uses a timing motor, cam and Micro-Switch to turn pump off and on. NEMA 1 enclosure, UL and CSA listed. Switch capacity 10 amps non-inductive.

Off Time (Cycle Time)		On Time (Pumping Time)		Power Requirements	Approvals	Switch Capacity
Min	Max	Min	Max			
5 Min.	1 Hr.	30 Sec.	90 Sec.	120 VAC, 60 Hz	UL, CSA	10 Amps

Note: Off-time selectable in 5 minute intervals.

Enclosure			
Rating	Dimensions - in. / mm		
	Height	Width	Depth
NEMA 1	5 / 127	3¼ / 82.5	3½ / 89



Model 84015 Timer— 12-24V DC

Solid state timer for automated lubrication systems requiring DC power. Rugged construction with liquid and dust-tight enclosure. Includes manual push button for remote initiation of a lube cycle.

Off Time** (Cycle Time)		Fixed On Time (Pumping Time)	Power Requirements	Switch Capacity
Min.	Max.			
2.5 Min.	80 Min.	75 Sec.	10-30 VDC 25 MA*	5 Amps

* Less load.

** Available selections are 2.5, 5, 10, 20, 40 or 80 minutes.

Rating	Enclosure			Ambient Operating Temperature Range	
	Dimensions-in / mm			Minimum	Maximum
	Height	Width	Depth		
NEMA 12	5¼ / 133	3¾ / 79	3 / 76	0°F / -18°C	131°F / 55°C



Electric Solenoid Operated Air Valves

Model No.	Type	Electrical Characteristics			Air Inlet/Outlet	Ambient Temp. Range	Cv Factor	Max. Press. psi / bar	Conduit Conn.
		Power Requirements	Inrush Current Amps	Holding Current Amps					
350241	3 Way	110 VAC, 50 Hz 120 VAC, 60 Hz 8.4 VA	.11	.07	¼" NPTF(F)	0° - 140°F -18° - 60°C	1.8	150 10.2	½" NPS(F)
350242		220 VAC, 50 Hz 240 VAC, 60 Hz 8.4 VA	.055	.035					

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 & 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



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



Quicklinec® 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
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 6 mm male 90° fitting
244057	1/4" tube x 6 mm straight fitting
244058	1/4" tube x 1/4" tube splicer union

Divider Valve Outlet Adapters Without Check Valves

Quicklub® adapters without check valves are for use in manual systems where lubricant is supplied from hand grease guns or pneumatic powered lever guns. Quicklub® adapters with check valves are for use in all automated systems.



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	Clamping ring



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

Model No.	Description
404-20236-4	Comp. Nut
404-23668-1	Comp. Nut
404-22581-2	Ferrule



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

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



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

Model No.	Description
404-22581-2	Clamping ring
239857	Valve outlet adapter with check
239959	Valve outlet adapter without check



Zerk-Lock™ and Quicklinc® Make Connecting Fast

Installing lubrication systems can take a lot of time, especially when there's not much space to work with. Those problems are a thing of the past with Lincoln Industrial's unique Zerk-Lock and Quicklinc connectors and adapters. Great for hard-to-reach places and those spots where there's no room for a wrench, Zerk-Lock and Quicklinc cut the time it takes to install line connections in half—or more—when compared to screw-type connectors.

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 Industrial'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.

Box Quantities:

Model No.	Description
252751	Valve outlet fitting with check for 1/4" nylon tubing
252752	Valve outlet fitting without check for 1/4" nylon tubing
252753	1/4" tube x 1/8" NPT male straight fitting
252754	1/4" tube x 1/8" NPT male 90° fitting
252755	1/4" tube x 1/8" NPT male 90° swivel fitting
252756	1/4" tube x 1/4"- 28 male straight fitting
252757	1/4" tube x 1/4"- 28 male 90° fitting
252758	1/4" tube x 6 mm male 90° fitting
252759	1/4" tube x 6 mm straight fitting
252760	1/4" tube x 1/4" tube splicer union
252761	1/8" NPSL female Zerk-Lock grease fitting adapter

The models are economy packaged, 50 pieces per carton.

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



Divider Valve Mounting Accessories

Model No.	Description
246416	Valve mounting bracket
51304	¼" nylon locknut for valve mounting
247023	Grade 8, ¼" valve mounting bolt
239499	Template for divider valve mounting (6,8, 10 and 12 outlet valves)
241233	Template for 18 outlet (model 249231) valve



Divider Valve Outlet Closure Plug

Model No.	Description
303-17499-3	Valve outlet closure plug

Supply and Feed Line Hose

Min. Burst	Lube Working Pressure	Nominal Size		Minimum Bending Radius	Construction
		I.D.	O.D.		
10,000 psig 690 bar	4000 psig 276 bar	⅛"	⅝"	3½"	Nylon Tube Dacron Braid Polyurethane Cover

Model No.	Description
241285	2 ft. (.61m) coil grease filled
241286	26 ft. (7.92m) coil grease filled
241287	35 ft. (10.66m) coil grease filled
241288	40 ft. (12.19m) coil grease filled
252717	200 ft (60.96m) coil non-grease filled



Hose Ends for ⅛" I.D. Hose

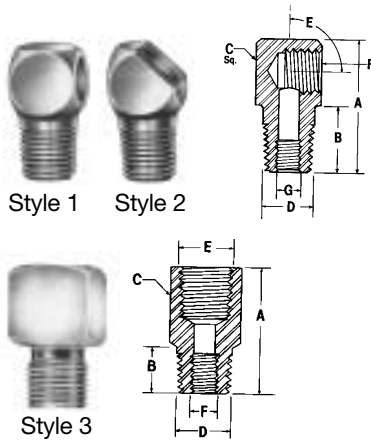
Model No.	Description
241289	⅛" NPT swedge on hose stud (requires swedging tool)
246002	⅛" NPT field installable hose coupling (swedging tool not required)



Feed Line Nylon Tubing

O.D. Inches	Wall Thickness In. / mm	Working Pressure		Minimum Bending in / mm
		psig	bar	
¼"	.050 / 1.27	625	42.5	.875 / 22.2

Model No.	Description
242025	25 ft. (7.62m) coil grease filled
242050	50 ft. (15.24m) coil grease filled
62357	100 ft. (30.48m) coil non-grease filled
247022	500 ft. (152.40m) coil non-grease filled



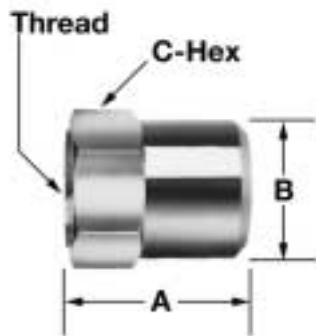
Pipe Thread Adapters

Model No.	Style	A	B	C	D	E	F	G
13154	3	7/8	3/8	1/2 sq.	1/8 NPSM	1/8 NPTF	1/4-28 UNF	
13155	1	1	3/8	1/2 sq.	1/8 NPSM	90°	1/8 NPTF	1/4-28 UNF
14054	3	7/8	7/16	1/2 sq.	1/8 NPSM	1/8 NPTF	1/4-28 UNF	
20024	3	7/8	5/16	1/2 hex	1/4-28 Taper	1/8 NPSF		
20026	1	1 1/16	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	



Metric Adapters

Model No.	Description
20042	6 mm male x 1/8" NPSF female straight
20043	6 mm male x 1/8" NPSF female 90°
244201	1/8" BSPT male x 1/8" NPT female thread



Zerk-Lock™ Grease Fitting Adapter

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

Model No.	Thread	Dimensions					
		A		B		C-Hex	
		in.	mm	in.	mm	in.	mm
270784	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.



Grease Fittings

Model No.	Description
5010	1/4" - 28 taper threaded straight fitting
5045	1/8" NPT threaded straight leakproof fitting
5050	1/4" PTF special extra short straight fitting
5200	1/8" PTF special short 45° fitting
5300	1/8" PTF special short 65° fitting
5400	1/8" PTF special short 90° fitting
5410	1/4" - 28 taper threaded 90° fitting
5701	1/8" PTF special short straight buttonhead fitting
242125	Plastic grease fitting cap



Swivels

Model No.	Description
91048	1/8" NPT male x 1/8" NPT female 90° swivel
91308	1/8" NPT male x 1/8" NPT female straight swivel



Adapter Unions and Locknuts

Model No.	Description
66649	1/8" NPT male x 1/8" NPT female swivel adapter union
51055	1/8" NPSM locknut utilized for remote 1/8" I.D. hose bulkhead connections

Installation/Assembly Tools

Model No.	Description
241237	Plastic tube and hose cutter
241238	Swedging tool for field installation of Model 241289
241239	QL screwdriver

System Finishing Accessories

Model No.	Description
241110	Feed line bundling spiral wrap (10 ft. (3m) length)
241054	Nylon ties (100 count poly bag)
241055	Nylon ties (50 count poly bag)



Quicklub® Lubrication Systems

Single Point Lubrication Kits



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
87411	Complete kit with grease gun for permanent mounting.	Non-filled
87412		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
247519	5 point manual QL kit—landing gear
247619	4 point manual QL kit—landing gear



Trailer Kits—Preassembled

Model No.	Description
244506	6 point manual QL kit—single axle
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/Construction Kits
Unassembled Manual Kits**

Model No.	Description
241316	16 point manual QL kit
241324	24 point manual QL kit
241328	28 point manual QL kit
241332	32 point manual QL kit



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.

Unassembled Auto QL Kit (12 VDC Pump)

Model No.	Description
241116	16 point auto QL kit
241124	24 point auto QL kit
241128	28 point auto QL kit
241132	32 point auto QL kit

Unassembled Auto QL Kit (24 VDC Pump)

Model No.	Description
242016	16 point auto QL kit
242024	24 point auto QL kit
242028	28 point auto QL kit
242032	32 point auto QL kit

Note: Above referenced models include either a 12 VDC or 24VDC electric grease pump which is boxed separately.

Quicklub® Lubrication Systems

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600-26875-2	13	650-40765-5	11	P32191210531	12
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600-26877-2	13	650-40768-3	11		
600-28750-1	13	650-40768-4	11		
604-26538-1	14	650-40768-5	11		
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619-26396-2	4	P30131211151	9		
619-26398-2	4	P30131411151	9		
619-26646-2	4	P30142611111	9		
619-26648-2	4	P30142811111	9		
619-26650-1	5	P30161211151	9		
619-26651-3	5	P30161411151	9		
619-26653-1	5	P30162611111	9		
619-26654-3	5	P30162811111	9		
619-26764-1	5	P30191211151	9		
619-26765-3	5	P30191411151	9		
619-26844-1	4	P30192611111	9		
619-26845-2	4	P30192811111	9		
619-26848-1	5	P31131211151	10		
619-26849-2	5	P31161211151	10		
619-27121-1	4	P31191211151	10		
619-27122-1	4	P31131411151	10		
619-27472-1	4	P31161411151	10		

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