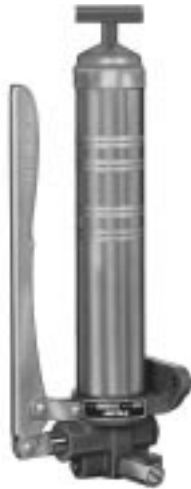


Once you have determined your total lubricant requirements, your greatest line length, and compensated for line expansion, you're ready to determine the pump you need.

If your overall requirements are less than 2.4 cu. in. for oil or 2.15 cu. in. for grease, you can select a single stroke pump. Should your requirements demand more capacity, a reciprocating pump will fill the need.

Your Lincoln Industrial representative will suggest the best pump for you based on your application. Look over the following pages of pump selection options and feel free to ask questions.



Model 83817 Economy Grease Pump

Manual pump has metal reservoir and spring-loaded follower. Indicator pin in pump base shows when 2500 psi system operating pressure has been achieved.

Model:	83817	
Output/Stroke:	.100 cu. in.	1.6 cc
Reservoir Capacity:	1 lb.	.45 kg
	30 cu. in.	492 cc
Lube Outlet:	1/8" NPTF (F)	
Typical System	Min. 1200 psig	82 bar
Operating Pressure:	Max. 3500 psig	241 bar
Dimensions (HxWxL):	15 1/4" x 5" x 5 5/8"	387 x 127 x 141 mm
Filling Method:	14.6 oz. Grease Cartridge/Bulk Fill	



Model 1810 Grease Pump

Translucent reservoir with spring-loaded follower. Indicator pin in pump base shows when 2500 psi system operating pressure has been achieved. Refill through included fitting using Model 81834 filler pump or other manual pump equipped with Model 645006 coupler.

Model:	1810	
Output/Stroke:	.160 cu. in.	2.6 cc
Reservoir Capacity:	5 lb.	2.27 kg
	150 cu. in.	2458.50 cc
Lube Outlet:	1/4" NPTF (F)	
Typical System	Min. 1200 psig	82 bar
Operating Pressure:	Max. 3500 psig	241 bar
Dimensions (HxWxL):	16 1/4" x 7 1/8" x 7 3/4"	413 x 181 x 197 mm
Filling Method:	81834 Filler Pump	



Model 1808 Portable Grease Pump

For systems not equipped with a dedicated pump. Includes steel reservoir with follower plate, pressure gauge and 5' (1.5m) delivery hose with #68887-2 quick disconnect hydraulic coupler and one #68887-1 plug (1/2" NPTF female thread).

Model:	1808	
Output/Stroke:	.400 cu. in.	6.5 cc
Reservoir Capacity:	30 lb.	13.61 kg
	900 cu. in.	14751 cc
Lube Outlet:	3/8" NPTF (F)	
Typical System	Min. 1200 psig	82 bar
Operating Pressure:	Max. 3500 psig	241 bar
Dimensions (HxWxL):	28" x 9" x 14"	711 x 229 x 356 mm
Filling Method:	Bulk	



Model 82886 Pump

Pump discharges lubricant on air-powered forward stroke and vents on spring-powered return stroke through built-in check/vent valve. Reservoir is translucent with spring-loaded follower. Includes filler fitting for refilling reservoir with Model 81834 or other manual pump equipped with Model 645006 coupler.

Model:	82886	
Lubricant/Air Ratio:	20:1	
Maximum Output:	.45 cu. in.	7.4 cc
Reservoir Capacity:	1 lb.	.45 kg
	30 cu. in.	492 cc
Air Inlet:	1/4" NPTF (F)	
Lube Outlet:	1/4" NPTF (F)	
Lubricant Operating Pressure:	Min. 1200 psig	82 bar
	Max. 3500 psig	241 bar
Dimensions (HxWxL):	10 3/8" x 5 1/4" x 6"	263 x 133 x 152 mm
Air Valve Required:	3-Way	

Note: Air consumption @ 100 psi is .15 CFM per stroke.



Model 83668

Same as model 82886 except includes larger reservoir.

Model:	83668	
Lubricant/Air Ratio:	20:1	
Maximum Output:	.45 cu. in.	7.4 cc
Reservoir Capacity:	4 lb.	1.81 kg
	120 cu. in.	1967 cc
Air Inlet:	1/4" NPTF (F)	
Lube Outlet:	1/4" NPTF (F)	
Typical System Operating Pressure:	Min. 1200 psig	82 bar
	Max. 3500 psig	241 bar
Dimensions (HxWxL):	18 1/2" x 5 1/4" x 6"	470 x 133 x 152 mm
Air Valve Required:	3-Way	



Model 82653 Bare Pump

Pump uses air for forward and return stroke but dispenses lubricant on forward stroke only. Return stroke vents lubricant pressure through included check/vent valve. Translucent reservoir has spring-loaded follower. Refill through included filler fitting using Model 81834 or other manual pump equipped with Model 645006 coupler.

Model:	82653	
Lubricant/Air Ratio:	31:1	
Maximum Output:	1.4 cu. in.	22.9 cc
Reservoir Capacity:	4 lb.	1.81 kg
	120 cu. in.	1967 cc
Air Inlet:	1/4" NPTF (F)	
Lube Outlet:	1/4" NPTF (F)	
Typical System	Min. 1200 psig	82 bar
Operating Pressure:	Max. 3500 psig	241 bar
Dimensions (HxWxL):	18 1/2" x 5 3/4" x 21"	470 x 146 x 533 mm
Air Valve Required:	4-Way	

Air consumption @ 100 psi is .5 CFM per stroke.

Model 83834 High Volume Bare Pump

Same as Model 82653 except 25:1 ratio, 2.15 cu. in (35.2 cc) maximum output.

Model 82655 Pump with Controls

Same as Model 82653 except includes Model 84501 solid state timer and 350244 four way electric solenoid valve.

Model 83800 High Volume Pump with Controls

Same as Model 83834 except includes Model 84501 solid state timer and 350244 four way electric solenoid valve.



Timer Specifications

Cycle Time		On Time		Power Requirements
Min	Max	Min	Max	
20 Sec.	24 Hr.	10 Sec.	1 Min. 24 Sec.	120 VAC, 60 hz 110 VAC, 50 hz

Note:

Refer to System Controls section for detailed timer and solenoid operated air valve specifications.

Centro-Matic® Automated Lubrication Systems

Air-Operated (Reciprocating) Grease Pumps



Model 83167

Includes transparent reservoir, spring-loaded follower, vent valve assembly and filler fitting for refilling of reservoir with 81834 filler pump or other manual pump equipped with Model 645006 coupler.

Model:	83167	
Lubricant/Air Ratio:	40:1	
Output/Min:	12 cu. in.	197 cc
Reservoir Capacity:	12 lb. / 5.44 kg	360 cu. in. / 5900 cc
Air Inlet:	1/8" NPTF (F)	
Lube Outlet:	3/4" NPTF (F)	
Typical System	Min. 1200 psig	82 bar
Operating Pressure:	Max. 3500 psig	241 bar
Dimensions (HxWxL):	22 1/2" x 9" x 16 1/4"	572 x 229 x 413 mm
Filling Method:	81834 Filler Pump	
Reservoir:	Translucent Acrylic	

Notes: 1. Pump requires 3-way air valve. 2. Air consumption @ 100 psi is .15 CFM per cycle



Model 83599

Same as model 83167 except includes model 83744 base mounting kit and metal reservoir with indicator rod for visual check of grease level. Reservoir includes spring-loaded follower.

Model:	83599	
Lubricant/Air Ratio:	40:1	
Output/Min:	12 cu. in.	197 cc
Reservoir Capacity:	12 lb. / 5.44 kg	360 cu. in. / 5900 cc
Air Inlet:	1/8" NPTF (F)	
Lube Outlet:	3/4" NPTF (F)	
Typical System	Min. 1200 psig	82 bar
Operating Pressure:	Max. 3500 psig	241 bar
Dimensions (HxWxL):	24 3/8" x 9" x 18 3/16"	619 x 229 x 462 mm
Filling Method:	81834 Filler Pump	
Reservoir:	Aluminum	

Notes: 1. Pump requires 3-way air valve. 2. Air consumption @ 100 psi is .15 CFM per cycle



Model 84050

A 50:1 ratio double acting air operated pump for high volume displacement. Supplied with a 60 pound capacity metal reservoir with removable cover for easy filling. Includes air-operated vent valve and 5' (1.5m) air and lubricant connecting hoses.

Model:	84050	
Lubricant/Air Ratio:	50:1	
Output/Min:	30 cu. in.	492 cc
Reservoir Capacity:	60 lb. / 27 kg	1800 cu. in. / 29,500 cc
Air Inlet:	3/8" NPTF (F)	
Lube Outlet:	3/4" NPTF (M) at Hose	
Typical System	Min. 1200 psig	82 bar
Operating Pressure:	Max. 3500 psig	241 bar
Dimensions (HxWxL):	31 3/4" x 15 7/16" x 15 5/16"	806 x 392 x 395 mm
Filling Method:	Bulk	
Reservoir:	Steel	

Notes: 1. Pump requires 3-way air valve. 2. Air consumption @ 100 psi is .42 CFM per cycle
3. Optional Model 92597 follower available.

Centro-Matic® Automated Lubrication Systems

Air-Operated (Reciprocating) Grease Pumps



Model 1823

Includes 2½" air motor driven pump, vent valve assembly, pump elevator, connecting lubricant and air hoses, and control panel.

Model:	1823	
Lubricant/Air Ratio:	50:1	
Output/Min @ 100 PSIG Air:	30 cu. in.	492 cc
Drum Size:	U.S. standard 120 lb. refinery drum	
Air Inlet:	¾" NPTF (F)	
Lube Outlet:	¾" NPTF (F)	
Typical System	Min. 1200 psig	82 bar
Operating Pressure:	Max. 3500 psig	241 bar
Components	Pump & Vent Assembly 282288	
Included:	Controller	85209
	Pump Elevator	83447

Controller Electrical Requirements: 120V, 60 Hz., 110 V, 50hz

Notes: 1. Air consumption @ 100 psi is .42 CFM per cycle.

2. Model 83371 follower plate is available as an optional accessory.



Model 282288

Same specifications as Model 1823 but does not include elevator or controller.

Model 1827 Heavy Duty Unit

Consists of PowerMaster pump, vent valve assembly with air and lubricant connecting hoses, drum cover and control panel.

Model:	1827	
Lubricant/Air Ratio:	75:1	
Output/Min @ 100 PSIG Air:	161 cu. in.	2638 cc
Drum Size:	U.S. standard 400 lb. refinery drum	
Air Inlet:	¾" NPTF (F)	
Lube Outlet:	¾" NPTF (F)	
Typical System	Min. 1200 psig	82 bar
Operating Pressure:	Max. 3500 psig	241 bar
Components Included:	Basic Pump 2004	
	Vent Valve	85215
	Controller	85209
	Drum Cover	81675



Model 1828

Same as Model 1827 except includes Model 2008 pump, 85218 vent valve and Model 84034 drum cover sized for U.S. standard 120 lb. refinery drum. Includes 85209 controller.

Model 1829

Same as Model 1827 except includes Model 2010 pump (50:1 ratio, 231 cu. in./min.(3785 cc) delivery at 100 psig air). Fits U.S. standard 400 lb. refinery drum. Includes 85209 controller and 85215 vent valve.

Model 1830

Same as Model 1827 except includes Model 2011 pump (50:1 ratio, 231 cu. in./min.(3785 cc) delivery at 100 psig air). Includes 85209 controller, 85218 vent valve and 84034 drum cover sized to fit U.S. standard 120 lb. refinery drum.





Model 1849

Fully automatic assembly including pump, 220/440 volt motor, translucent reservoir with spring-loaded follower, 4000 psi (276 bar) safety unloader, adjustable pressure switch, and time control. Time control is adjustable for lubrication cycle frequency of 5, 10, 15, 20, 30 or 60 minutes. Solid state time delay relay (35 sec. to 240 sec.) included for connection of audible or visual alarm to signal lubrication failure due to empty reservoir or broken supply line.

Model:	1849 *	
Output/Min:	18 cu. in.	295 cc
Reservoir Capacity:	12 lb. / 5.44 kg	360 cu. in. / 5900 cc
Lube Outlet:	¼" NPTF (F)	
Electrical Specifications:		
Pump Motor	220/440 VAC, 60 Hz, 3 ph	
Controller	115 VAC, 60 Hz	
Typical System	Min. 1200 psig	82 bar
Operating Pressure:	Max. 3500 psig	241 bar
Dimensions (HxWxL):	25¾" x 13 "x 19 ¹³ / ₁₆ "	645 x 330 x 503 mm
Reservoir Fill Method:	81834 Filler Pump or Manual Pump and 645006 Coupler	

* See Model 83820 in Systems Control section for controller specifications.

Model 1835

Same as Model 1849 except has 115 VAC, 60 Hz motor and controller.

Model 1833

Similar to Model 1849 except: 24 VDC pump motor and controller; metal reservoir with visual level indicator rod; 2.5, 5, 10, 20, 40 and 80 minute cycle frequency adjustment; 60 second fixed on time and alarm relay features. Incorporates pressure switch factory set at 2500 psi (172 bar).

Model:	1833 *	
Output/Min:	18 cu. in.	295 cc
Reservoir Capacity:	12 lb. / 5.44 kg	360 cu. in. / 5900 cc
Lube Outlet:	¼" NPTF (F)	
Electrical Specifications:		
	Pump Motor	¼ HP, 24 VD, 10 AMP
	Controller	24 VDC, 5 watts
Typical System	Min. 1200 psig	82 bar
Operating Pressure:	Max. 3500 psig	241 bar
Dimensions (HxWxL):	34¼" x 11½"x 21¾"	870 x 292 x 552 mm
Reservoir Fill Method:	81834 Filler Pump or Manual Pump with 645006 Coupler	

Notes:

1. Controller has provision for remote manual lube button and remote lube failure alarm.
2. Enclosure is designed to meet NEMA 3S and 12 specifications.





Model 84944

Hydraulic operated pump with 60 lb. metal reservoir and vent valve.

Model:	84944	
Nominal Lubricant/		
Hydraulic Pressure Ratio:	16:1	
Output/Min @ 30 Cycles/Min:	11 cu. in.	180 cc
Reservoir Capacity:	60 lb. / 27 kg	1800 cu. in. / 29,500 cc
Hydraulic Inlet/Outlet:	1/4" NPTF (M)	
Lube Outlet:	3/4" NPTF (M)	

Important Note:

1. Pumps require a timed electrical signal to operate. Use Model 244270 Cycle Timer. See System Controls section for specifications.
2. Included hydraulic solenoids require 24 VDC.

Model 84961

Basic pump only for Model 84944. Includes pump and hydraulic control. Does not include reservoir or vent valve.

Model 84960

Hydraulic pump for use with U.S. standard 120 lb. refinery drum. System components (pump, vent assembly, drum cover and follower plate) must be ordered separately.

Basic Pump:	84960	
Nominal Lubricant/		
Hydraulic Pressure Ratio:	16:1	
Output/Min @ 30 Cycles/Min:	11 cu. in. / 180 cc	
Lube Outlet:	Pump	1/4" NPTF (F)
	Vent Assembly	3/4" NPTF (M)

Important Note:

1. Pumps require a timed electrical signal to operate. Use Model 244270 Cycle Timer. See System Controls section for specifications.
2. Included hydraulic solenoids require 24 VDC.

Use:	Vent Assembly:	84990
	Drum Cover:	84616
	Follower Plate:	83371

Model 84962

Hydraulic pump for custom lubricant container installations. Pump length is sized for U.S. standard 400 lb. refinery drum depth.

Model:	84962	
Nominal Lubricant/		
Hydraulic Pressure Ratio:	16:1	
Output/Min @ 30 Cycles/Min:	11 cu. in. / 180 cc	
Lube Outlet:	1/4" NPTF (F)	
Pump Tube Length:	33 15/16"	862 mm
Pump Tube Diameter:	1"	25.4 mm

Important Note:

1. Pumps require a timed electrical signal to operate. Use Model 244270 Cycle Timer. See System Controls section for specifications.
2. Included hydraulic solenoids require 24 VDC.

Hydraulic Power Supply Requirements

Hydraulic Inlet Pressure psig / bar		Flow Rate @ 30 Cycles/Min. GPM ltrs/min	Fluid Max. Inlet Temperature	Ambient Operating Temperature Range		Filtration Requirement
Min	Max			Min	Max	
300 / 21	3000 / 207	1.0 / 3.8	210°F/99°C	-40°F/-40°C	+135°F/57°C	10 Micron

Note: All pumps have a hydraulic pressure reducing valve rated for 60 psi (4 bar) to 800 psi (55 bar) output. Maximum input is 3000 psi (207 bar).





Model 83742

Manual pump has metal reservoir with dip-stick fluid level indicator and filler cap and strainer. Pump base has built in check/vent valve and an indicator pin to show when system pressure is achieved.

Model:	83742	
Output/Stroke:	.360 cu. in.	5.9 cc
Reservoir Capacity:	1.4 pint / 40.4 cu. in.	.66 liter/660cc
Lube Outlet:	1/8" NPTF (F)	
Typical System	Min. 750 psig	52 bar
Operating Pressure:	Max. 1000 psig	69 bar
Dimensions (HxWxL):	14 3/4" x 5" x 5 5/16"	375 x 127 x 141 mm



Model 1812

Pump has translucent reservoir with filler cap and strainer. Pump base has built in check/vent valve and an indicator pin to show when system pressure is achieved.

Model:	1812	
Output/Stroke:	.160 cu. in.	2.6 cc
Reservoir Capacity:	4 1/2 pint /130 cu. in.	2.13 liter/2130 cc
Lube Outlet:	1/4" NPTF (F)	
Typical System	Min. 750 psig	52 bar
Operating Pressure:	Max. 1000 psig	69 bar
Dimensions (HxWxL):	16 3/4" x 7 1/8" x 7 3/4"	425 x 181 x 197 mm

Note: Check compatibility when using synthetic oils.

Centro-Matic® Automated Lubrication Systems

Air-Operated (Single Stroke) Oil Pumps



Model 82885

Pump discharges lubricant on air-powered forward stroke and vents on spring-powered return stroke through built-in check/vent valve. Translucent reservoir is refilled through filler cap with strainer.

Model:	82885	
Lubricant/Air Ratio:	20:1	
Maximum Output:	.45 cu. in.	7.4 cc
Reservoir Capacity:	1¼ pint	.6 liter
	36 cu. in.	600 cc
Air Inlet:	¼" NPTF (F)	
Lube Outlet:	¼" NPTF (F)	
Typical System	Min. 750 psig	52 bar
Operating Pressure:	Max. 1000 psig	69 bar
Dimensions (HxWxL):	10⅝" x 5¼" x 6"	264 x 133 x 152 mm
Air Valve Required:	3-Way**	

** Air consumption @ 100 psi is .15 CFM per stroke.

Note: Check compatibility when using synthetic oils.



Model 83667

Same as model 82885 except includes larger reservoir.

Model:	83667	
Lubricant/Air Ratio:	20:1	
Maximum Output:	.45 cu. in.	7.4 cc
Reservoir Capacity:	4¼ pint	2 liter
	123 cu. in.	2000 cc
Air Inlet:	¼" NPTF (F)	
Lube Outlet:	¼" NPTF (F)	
Typical System	Min. 750 psig	52 bar
Operating Pressure:	Max. 1000 psig	69 bar
Dimensions (HxWxL):	18½" x 5½" x 6"	470 x 140 x 152 mm
Air Valve Required:	3-Way**	

** Air consumption @ 100 psi is .15 CFM per stroke.

Note: Check compatibility when using synthetic oils.



Model 82570

High volume pump discharges lubricant on air-powered forward stroke and vents through included check/vent valve on air-powered return stroke. Translucent reservoir is refilled through filler cap with strainer.

Model:	82570	
Lubricant/Air Ratio:	20:1	
Maximum Output:	2.4 cu. in.	39.3 cc
Reservoir Capacity:	4½ pint	2 liter
	123 cu. in.	2000 cc
Air Inlets (2):	¼" NPTF (F)	
Lube Outlet:	¼" NPTF (F)	
Typical System	Min. 750 psig	52 bar
Operating Pressure:	Max. 1000 psig	69 bar
Dimensions (HxWxL):	17¾" x 5¾" x 18¼"	451 x 146 x 464 mm
Air Valve Required:	4-Way**	

** Air consumption @ 100 psi is .5 CFM per stroke.

Note: Check compatibility when using synthetic oils.

Centro-Matic® Automated Lubrication Systems

Air-Operated (Single Stroke) Oil Pumps

Model 82676



Same as model 82570 except for use with external oil supply through 1/2" NPT(F) oil inlet.*

Model:	82676	
Lubricant/Air Ratio:	20:1	
Maximum Output:	2.4 cu. in.	39.3 cc
Reservoir Capacity:	Remote	
Air Inlet:	1/4" NPTF (F)	
Lube Outlet:	1/4" NPTF (F)	
Typical System	Min. 750 psig	52 bar
Operating Pressure:	Max. 1000 psig	69 bar
Dimensions (HxWxL):	6 5/16" x 5 3/4" x 18 1/4"	160 x 146 x 464 mm
Air Valve Required:	4-Way**	

* Maximum head pressure 80 psi (5.5 bar).

** Air consumption @ 100 psi is .5 CFM per stroke.

Model 82573



Air operated single stroke oil pump and timer assembly. Same as model 82570 except includes model 84501 solid state timer and 350244 four-way electrical solenoid valve.

Model:	82573	
Lubricant/Air Ratio:	20:1	
Maximum Output:	2.4 cu. in.	39.3 cc
Reservoir Capacity:	4 1/2 pint	2.0 liter
	123 cu. in.	2000 cc
Air Inlet:	1/4" NPTF (F)	
Lube Outlet:	1/4" NPTF (F)	
Typical System	Min. 750 psig	52 bar
Operating Pressure:	Max. 1000 psig	69 bar
Dimensions (HxWxL):	17 3/4" x 5 3/4" x 18 1/4"	451 x 146 x 464 mm
Air Valve Required:	4-Way** (Included)	
Power Requirements:	120 VAC, 60 Hz; 110 VAC, 50 Hz	

** Air consumption @ 100 psi is .5 CFM per stroke.

Note: Check compatibility when using synthetic oils.

Timer Specifications

Cycle Time		On Time	
Min	Max	Min	Max
20 Sec.	24 Hr.	10 Sec.	1 Min. 24 Sec.

Note:

Refer to System Controls section for detailed timer and solenoid operated air valve specifications.



Model 283167

Includes 2½" air motor driven pump, vent valve assembly, translucent reservoir with filler cap and strainer, and 1200 psi (82 bar) safety unloader.

Model:	283167	
Lubricant/Air Ratio:	40:1	
Output/Min @ 100 PSI Air:	12 cu. in.	197 cc
Reservoir Capacity:	15 pint	7.1 liter
	433 cu. in.	7100 cc
Air Inlet:	½" NPTF (F)	
Lube Outlet:	¾" NPTF (F)	
Typical System	Min. 750 psig	52 bar
Operating Pressure:	Max. 1000 psig	69 bar
Dimensions (HxWxL):	23¼" x 9" x 16¼"	591 x 229 x 413 mm
Air Valve Required:	3-Way**	

** Air consumption @ 100 psi is .15 CFM per stroke.

Note: Check compatibility when using synthetic oils.



Model 1826

Consists of Model 2002 PowerMaster pump, Model 85217 vent valve assembly, Model 81675 drum cover, Model 85209 controller, air and lubricant connecting hoses, and 1200 psi (82 bar) safety unloader.

Model:	1826	
Lubricant/Air Ratio:	24:1	
Output @ 75 Cycles/Min:	462 cu. in.	7571 cc
Drum Size:	U.S. standard 55 gal. refinery drum (removable head)	
Air Inlet:	¾" NPTF (F)	
Lube Outlet:	¾" NPTF (F)	
Typical System	Min. 750 psig	52 bar
Operating Pressure:	Max. 1000 psig	69 bar
Controller Electrical		
Requirements:	120 V 60 Hz, 110V 50 Hz	

Notes:

1. See System Controls section for detailed controller specifications.
2. See Industrial Pumping catalog for basic pump specification, including air consumption.

Model 201826

Same as Model 1826 except includes Model 2003 40:1 ratio PowerMaster pump. Output at 75 CPM is 277 cu. in. (4539 cc).



Model 1848

Fully automatic assembly including pump, 220/440 volt motor, translucent reservoir, 1200 psi (82 bar) safety unloader, adjustable pressure switch and time control. Time control is adjustable for lubrication cycle frequency of 5, 10, 15, 20, 30, or 60 minutes. Solid state time delay relay (35 sec. to 240 sec.) included for connection of audible or visual alarm to signal lubrication failure due to empty reservoir or broken supply line.

Model:	1848	
Output/Min:	18 cu. in.	295 cc
Reservoir Capacity:	14.7 pint	6.96 liter
	424 cu. in.	6960cc
Lube Outlet:	¼" NPTF (F)	
Electrical Specifications:		
Pump Motor	220/440 VAC, 60 Hz, 3 ph	
Controller Max..	115 VAC, 60 Hz	
Typical System	Min. 750 psig	52 bar
Operating Pressure:	Max. 1000 psig	69 bar
Dimensions (HxWxL):	25¾" x 13" x 19⅜"	645 x 330 x 503 mm
Note: See #83820, System Controls section for controller specifications.		

Hydraulically-Operated (Single Stroke) Oil Pumps



Model 1820

Designed for applications utilizing a remote mounted lubricant reservoir. Fluid lubricants only. Requires hydraulic flow for forward and return stroke. Pump includes lubricant and hydraulic cylinders and automatic vent valve.

Model:	1820	
Lubricant/Hydraulic Ratio:	5.75:1	
Maximum Output:	2.8 cu. in.	45.9 cc
Reservoir:	None	
Hydraulic Inlet/Outlet:	⅜" NPTF (F)	
Lube Inlet:	¾" NPTF (F)	
Lube Outlet:	⅜" NPTF (F)	
Typical System Operating Pressure:	Factory Set @ 2500 psi (172 bar) Max.	
Dimensions (HxWxL):	4" x 5¾" x 12"	102 x 146 x 305 mm
Hydraulic Pressure	Min. 450 psig	31 bar
Requirement:	Max. 2000 psig	138 bar

Note: Requires user-supplied 4-way hydraulic supply valve.



Reservoir Low-Level Alarm Kits

Low level kits signal need to fill reservoir.

Model	Lubricant Type	Use with Models	Switch Type	Switch Capacity Voltage (Amps)	Features
83671	Grease	82653, 82655, 83668, 83800, 83834, 83167, 83599, 1833, 1835, 1849	SPDT	125 VAC (15) 250 VAC (15) 480 VAC (15) 24 VDC (2) 125 VDC (½) 250 VDC (¼)	Connect to machine control or visual/audible alarm circuit.
83696	Oil	82570, 82573, 83667, 283167, 1848			
84629	Grease	84960			Includes follower for U.S. Std. 120 lb. drum.
84417	Grease	84050	None	—	Includes follower, visual indication only.



Follower Plates

Recommended when pumping lubricants that do not readily seek their own level.

Model	Use with Pump Models	Container Size
83370	1827, 1829	Standard U.S. 400 lb. refinery drum
83371	1823, 282288, 84960	Standard U.S. 120 lb. refinery drum
92544	1828, 1830	Standard U.S. 120 lb. refinery drum
92597	84050, 84944	Lincoln Industrial 60 lb. container



Automatic Filling System Pressure Regulator

Pressurized systems automatically keep up to eight single stroke oil pump reservoirs full at all times. Use with reservoir seal kits below. Fill pump not included.

Model	Fill Pump Requirements		Fill System Requirements			Lubricant Inlet/Outlet	Vent Outlet
	Max. * psig / bar	Max. Ratio	Max. Length		Reservoir Pressure psig / bar		
			5/8" Tube	3/8" Tube			
83372	125 / 8.6	3:1	100' / 30.5m	55'/16.8m	5 /.34	½" NPT(F)	¼" NPTF(F)

* Indicates maximum lubricant output pressure.

Pressure Kits

Seal reservoirs for automatic filling.

Model	Use with Pump Models
83368	82885
83637	82570, 82573