

AIR OPERATED OIL PUMP

SINGLE STROKE, SPRING RETURN



Model 82675

Series "D"

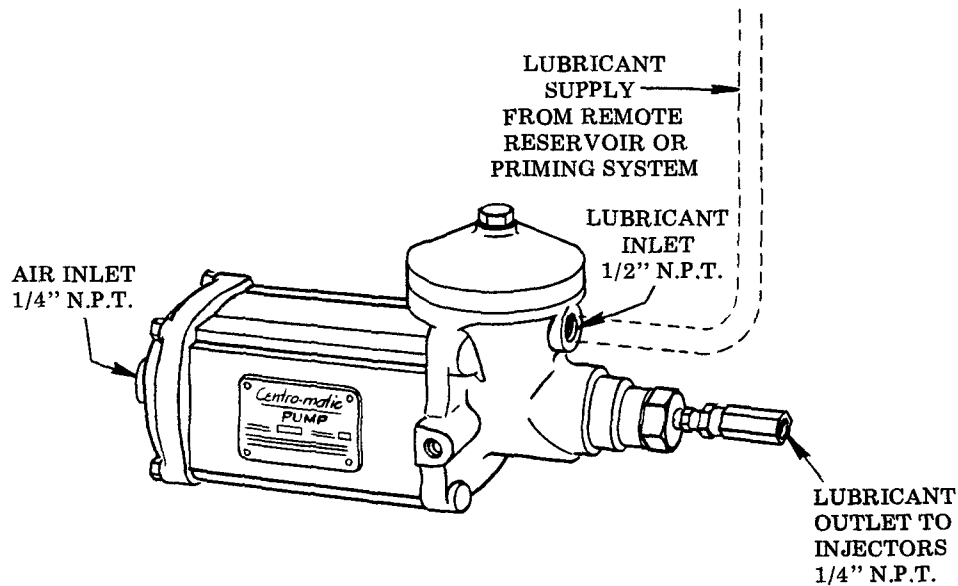
SPECIFICATIONS

Ratio	Lubricant Output (Cu. In.)	Air Inlet	Lubricant Outlet	LUBRICANT OPERATING PRESSURE (P.S.I.)			
				Type of System	Minimum	Maximum	Recommended
17.5:1	*.8	1/4" N.P.T. Female	1/4" N.P.T. Female	SL-42 SL-43	750 with 45 P.S.I. Air	1000 with 60 P.S.I. Air	850 with 50 P.S.I. Air

*Based on lubricants that are free from entrapped air. Lubricants that are aerated will reduce output of pump.

The 82675 pump is used as the pumping unit for a centralized lubrication system having a single line circuit of SL-42 and SL-43 Injectors. It is an air operated single stroke spring return pump that discharges .8 cu. in. into the circuit for each pump cycle.

The total quantity of lubricant for the lubricant cycle of the system must not exceed the amount of lubricant discharged per pump stroke.



TO PRIME SYSTEM

SUPPLY LINES: After pump reservoir has been filled with recommended lubricant, loosen (do not remove) all plugs in dead ends of the injector manifolds and supply lines. Operate pump until lubricant flows from around threads of any loosened plug. Tighten this plug and continue to operate pump until lubricant flows from around threads of another loosened plug. Repeat this procedure until all supply lines are primed.

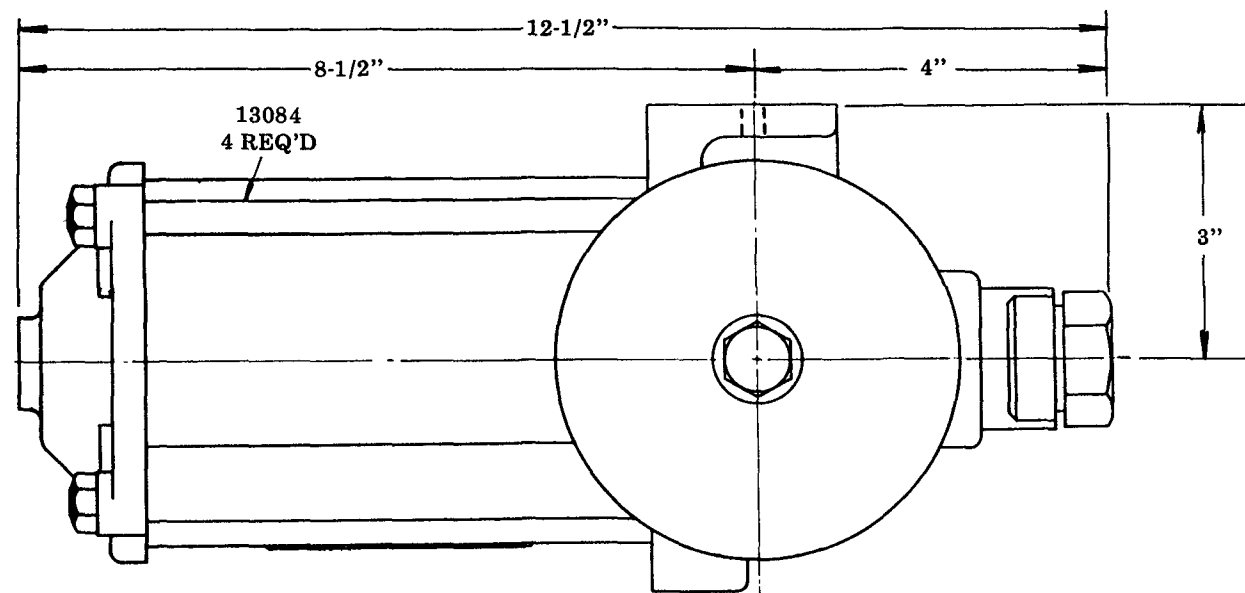
FEEDER LINES: Fill each feed line with lubricant before connecting lines to outlet of injectors and bearings. This will prevent having to cycle each injector to fill line between injector and bearing.

INJECTORS: Check each injector for proper operation. Injector stem moves when injector discharges lubricant to bearing. This may require cycling system several times. After checking injectors for operation adjust injectors for the volume required for each bearing.

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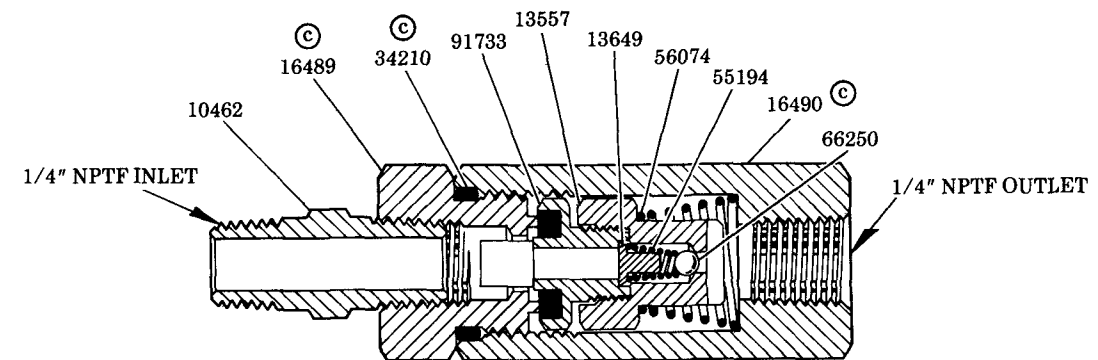


NOTE:
Remote priming pressure must not exceed 80 PSI.

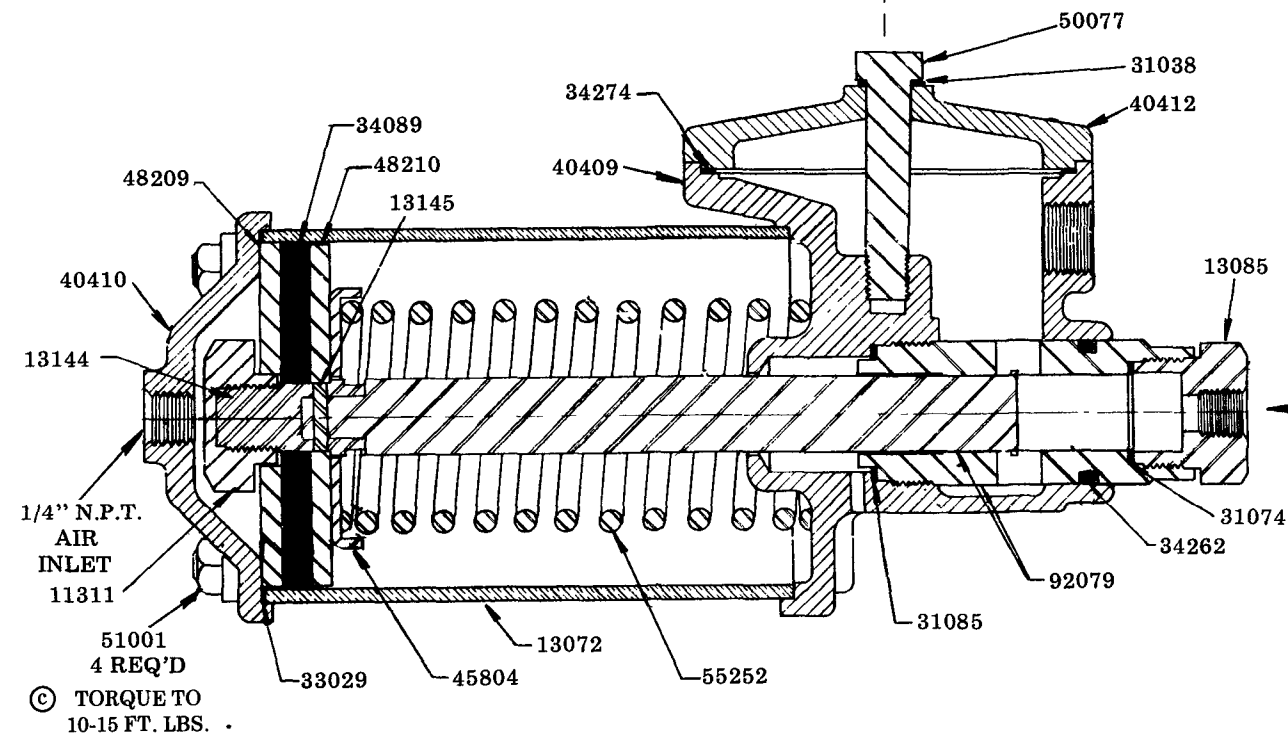
TO CLEAN LINE CHECK 83114

Remove 91733 Check and examine packing for presence of foreign particles. If packing is damaged, replace 91733 Check.

Remove 66250 Ball Check, 55194 Spring and 13649 Ball Stop from 13557 Check Retainer. Examine for presence of foreign particles. Clean thoroughly.



**NOTE: TORQUE TO
30 FT. LBS.**

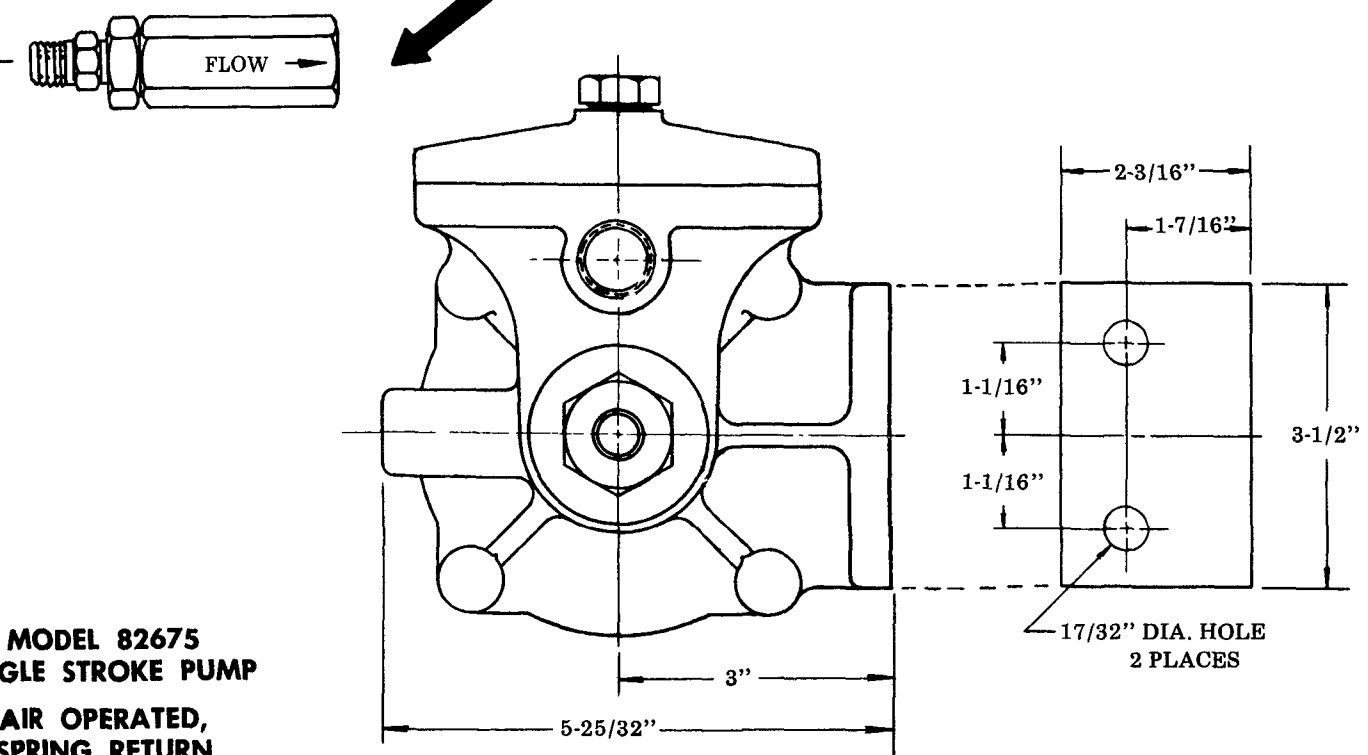


**MODEL 82675
SINGLE STROKE PUMP
AIR OPERATED,
SPRING RETURN**

SERIES "D"

**83114
LINE CHECK**

© Indicates change



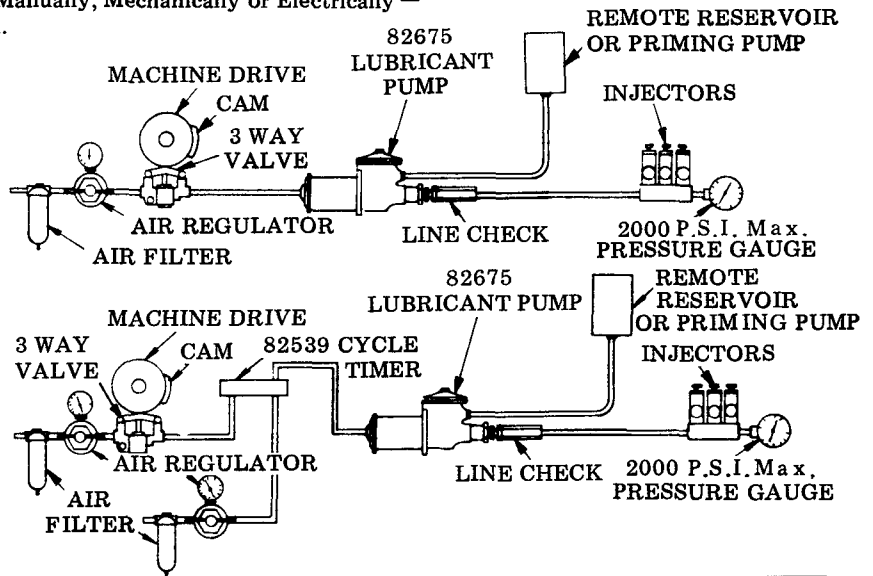
TYPES OF INSTALLATIONS

Frequency of lubrication cycle can be controlled Manually, Mechanically or Electrically —
 Pump requires a three-way air valve for operation.

MECHANICAL CONTROL

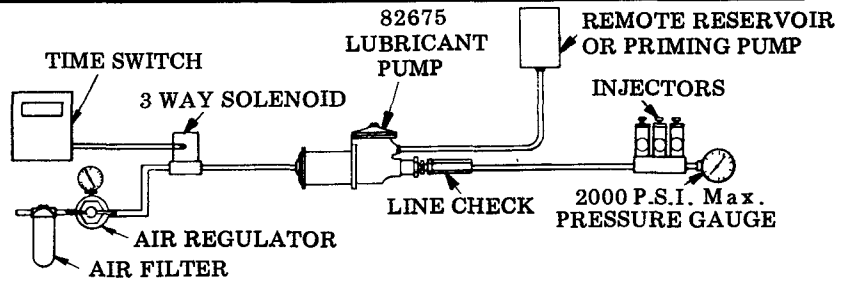
When using mechanical motion of machine to control lubrication frequency, three-way valve is engaged by cam permitting air to pass forward and lubricant through supply line to injectors. When the valve is disengaged, air exhausts back through valve and spring in pump returns air piston completing lubrication cycle. Cam dwell on three-way valve must be arranged for a minimum of 10 seconds.

When mechanical motion of machine is too rapid to be used as a source of control for frequency of lubrication cycle, a cycle timer with adjustable settings may be used. (See separate instructions for No. 83764 Cycle Timer). Cam dwell arrangement for 10 seconds is not required for this type installation.



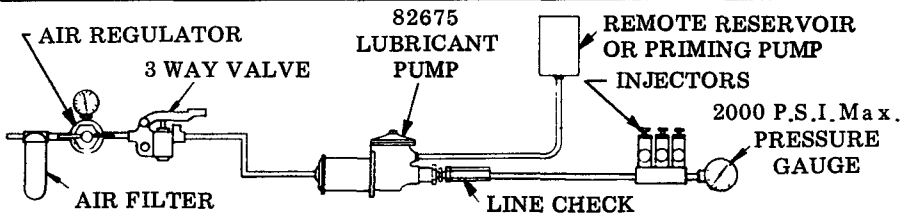
ELECTRICAL CONTROL

Electrical time switch opens three-way solenoid valve permitting air to flow to pump forcing air piston forward and lubricant through supply line to injectors. When valve closes, air exhausts back through valve and spring in pump returns air piston completing lubrication cycle. Frequency of cycle can be set as desired by adjustable pins in time switch. See separate instructions of 84101 Program Timer.



MANUAL CONTROL

Opening three-way valve for a minimum of 10 seconds permits air to flow to pump forcing air piston forward and lubricant through supply line to injectors. When valve is closed, air exhausts back through valve and spring in pump returns air piston completing lubrication cycle.



WHAT TO DO IF

PUMP LOSES PRIME — Check lubricant supply.

SYSTEM FAILS TO CYCLE and calculated system planning has been followed — lubricant is leaking by packing of 91733 Check or 66250 Check. Remove and clean. Failure of injectors to cycle can also be caused by leak in supply lines. Examine supply lines and connections.

PUMP FAILS TO OPERATE — Check air supply. 45 P.S.I.G. minimum required.

SERVICE PARTS

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
10462	Nipple	* 31074	Gasket	48210	Washer
11311	Piston nut	* 31085	Gasket	50077	Bolt
13072	Air cylinder	* 33029	Gasket	51001	Nut
13084	Tie rod	* 34089	Packing	* 55194	Spring
13085	Outlet	* 34210	O-ring	55252	Spring
13144	Packing stud	* 34262	O-ring	56074	Spring
13145	Pin	* 34274	Gasket	* 66250	Steel ball
13557	Check retainer	40409	Body casting	83114	Line check assembly
13649	Ball stop	40410	Cylinder cap	* 91733	Check
16489	Check seat	40412	Body cap	92079	Bushing & plunger
16490	Check body	45804	Spring guide		
31038	Gasket	48209	Washer		

*Recommended service parts inventory.

RETAIN THIS INFORMATION FOR FUTURE REFERENCE

When ordering replacement parts, list: Part Number, Description, Model Number, and Series Letter.

LINCOLN ST. LOUIS provides a Distributor Network that stocks equipment and replacement parts.

A list of Authorized Service Departments will be furnished upon request.