

SPECIFICATIONS:

Maximum operating pressure - 1,000 psi

Normal operating pressure - 850 psi

Maximum vent (recharge) pressure - 150 psi

Lubricant output is adjustable from .008 cu. in. to .08 cu. in.

Injectors can be mounted in any position and can be used in circuits with SL-41, SL-42 and SL-43 Injectors.

**SINGLE AND MANIFOLD TYPE
FOR DISPENSING OIL ONLY**

NOTE:

250159 Repair Kit available
for Model 83748.

MANIFOLD TYPE INJECTORS

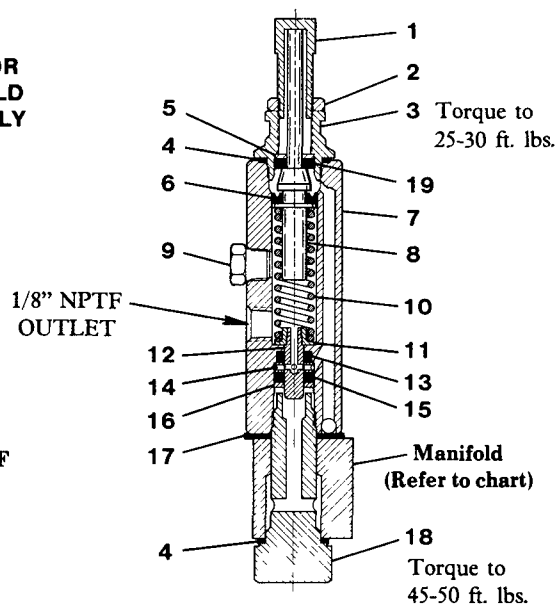
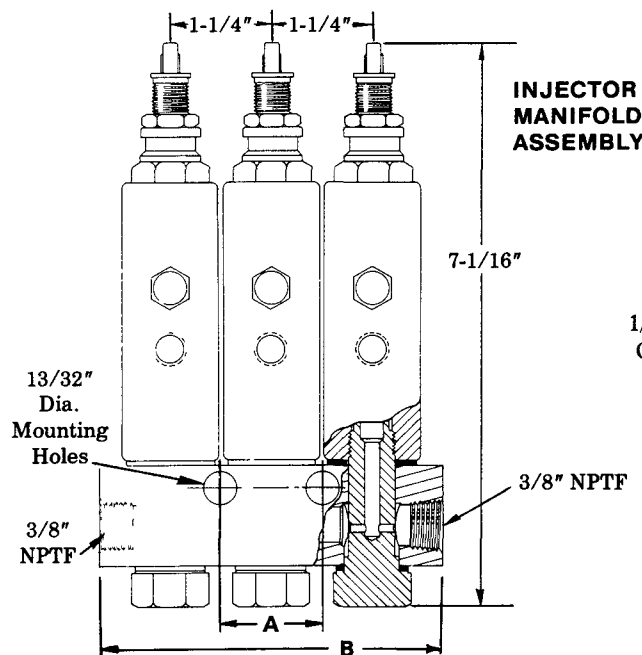
Model	Type	Dim. A	Dim. B	Manifold
83749-1	Single injector manifold	**	2-1/2"	12658
83749-2	Two injector manifold	**	3"	11962
83749-3	Three injector manifold	1-1/4"	4-1/4"	11963
83749-4	Four injector manifold	2-1/2"	5-1/2"	11964
83749-5	Five injector manifold	3-3/4"	6-3/4"	11965

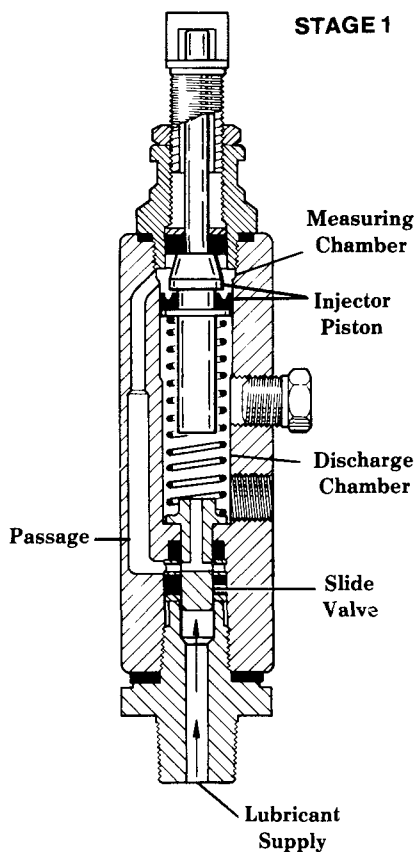
** Single mounting hole.

SERVICE PARTS

Item No.	Description	Qty.	Part No.
1	Adjusting screw	1	11623
2	Lock nut	1	11624
3	Piston stop plug	1	11450
4	Gasket	2	*
5	Washer	1	*
6	Viton u-cup	1	*
7	Injector body assembly	1	241428
8	Piston assembly	1	*
9	Plug	1	12511
10	Plunger spring	1	*
11	Spring seat	1	*
12	Plunger	1	*
13	Viton packing	1	*
14	Inlet disc	1	*
15	Viton packing	1	*
16	Washer	1	*
17	Gasket	1	31064
18	Adapter bolt	1	11961
19	Viton packing	1	*

* Included in 250159 Repair Kit.





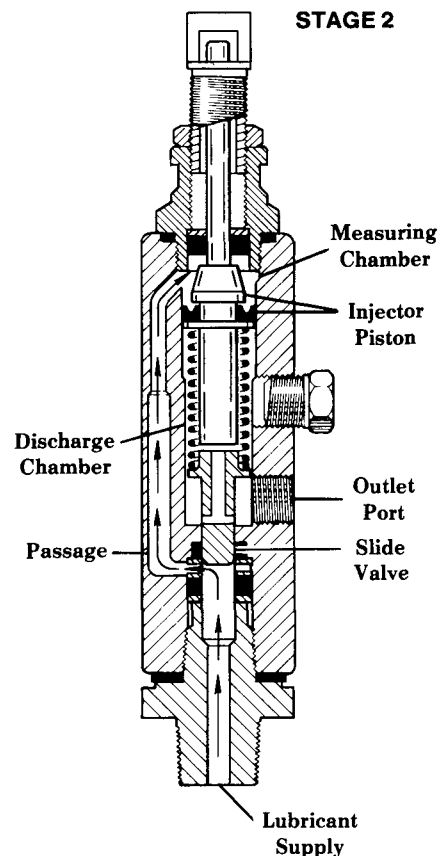
OPERATION

STAGE 1

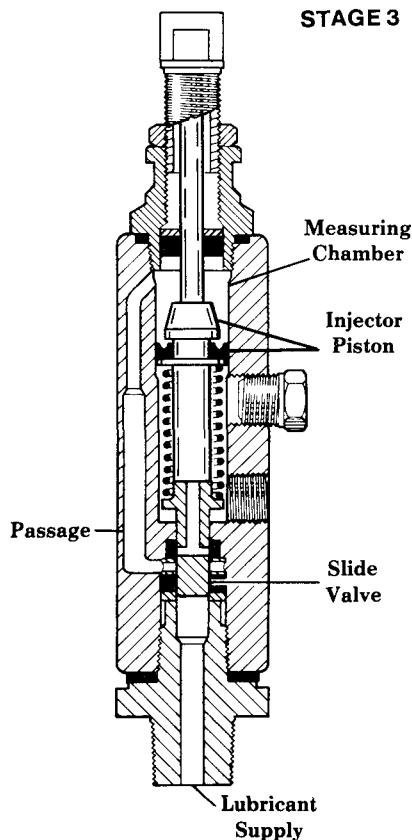
The injector piston is in its normal or rest position. The discharge chamber is filled with lubricant from the previous cycle. Under the pressure of incoming lubricant, the slide valve is about to open the passage leading to the measuring chamber above the injector piston.

STAGE 2

When the slide valve uncovers the passage, lubricant is admitted to the measuring chamber above the injector piston which forces lubricant from the discharge chamber through the outlet port to bearing.



STAGE 3



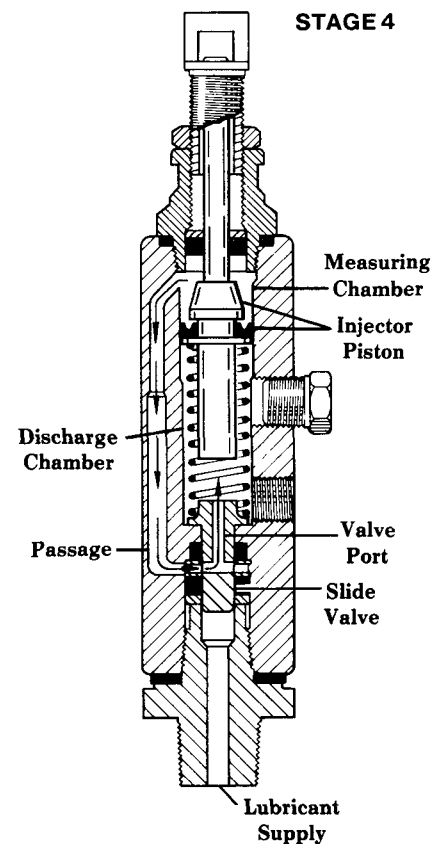
STAGE 3

As the injector piston completes its stroke, it pushes the slide valve past the passage, cutting off further admission of lubricant to the passage and measuring chamber. The injector piston and slide valve remain in this position until lubricant pressure in the supply line is vented (relieved at the pump).

STAGE 4

After venting, the injector spring expands, causing the slide valve to move, so that the passage and discharge chamber are connected by a valve port. Further expansion of the spring causes the piston to move upward, forcing the lubricant in the measuring chamber through the passage and valve port to refill the discharge chamber.

Injector is now ready for next cycle.



RETAIN THIS INFORMATION FOR FUTURE REFERENCE

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

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