

SPECIFICATIONS

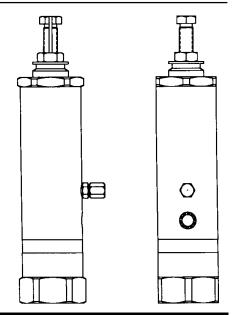
For dispensing fluid lubricant or grease. Output is adjustable from .05 cu. in. to .5 cu. in.

MATERIALS

Packings are compatible with common synthetic and petroleum based lubricants.

OPERATING PRESSURE

1000 PSI Minimum 2500 PSI Recommended 3500 PSI Maximum 800 PSI Maximum Recharge Pressure



DESCRIPTION

SL-11 Series injectors are designed for applications requiring large volumes of grease. They are supplied with packings compatible with synthetic and petroleum based greases. Available only as a single unit with 1/2 NPT inlet, and 1/4 NPT outlet. The SL-11 injector incorporates a hydraulic filler fitting for priming the feed line.

Output Adjustment:

The SL-11 injector's output is adjusted with the hex screw on top of the unit. A minimum output of approx. .050 cu. in. is obtained when the adjusting screw is turned clockwise, into the injector, hand tight. To obtain the maximum output of .50 cu. in., start at the minimum setting and turn the screw counterclockwise 12 3/4 turns, out of the injector. When the injector is adjusted to a half turn open or less, output from the injector should be verified.

Disassembly Instructions:

- 1. Remove the adjustment adapter (item #3) from the top of the injector. Remove the piston assembly (item #8), spring (item #9), and spacer (item #17) from inside the injector.
- 2. Remove the inlet adapter (item #16) from the bottom of the injector. To remove the slide valve assembly (item #11), turn injector over, with the top pointing down. If the slide valve does not fall out, it may be pushed out of the valve body assembly (item #14) with a blunt object.
- 3. To remove the valve body (item #14):
- a. If it sticks in the inlet adapter (item #16), gently pry the valve body out of the inlet adapter using a small round rod. Place the rod into a hole in the side of the valve body and pry against the face of the inlet adapter. Work one hole at a time, working around the valve body until it is freed.



SERVICE PARTS

	SERVICE PAR	(15					
Item			Part				
	Description	Qty.	No.	1			
	Adjusting Screw	1	244628				
	Lock Nut	1	51039				
	Adjustment Adapter	1	244613				
	O-Ring (viton)	2	*	2 5/8"			
	Washer	1	*				
	Packing (viton)	1	*	<u> </u>			
	O-Ring (viton)	1	*	4			
	Piston Ass'y.	1	244622	3			
	Plunger Spring	1	*	Torque to			
10	Fitting Ass'y	1	90471	165 ft-lbs.			
11	Slide Valve Ass'y	1	*				
12	Back-up Ring (teflon)	2	*	5			
13	O-Ring (viton)	2	*	8			
	Valve Body	1	*				
15	Injector Body	1	247768	6			
16	Inlet Adapter	1	244611				
17	Spacer	1	244626				
	ll wear parts for this ngle star (*), above.			17			
		$\overline{}$	—	1/4 NPT OUTLET			
	12			4			
	13			2 3/4"			
	14	Z		16 Torque to 165 ft-lbs. 2 3/16"			
	SLIDE VALVE DETAIL						

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- b. If the valve body sticks in the injector body, turn injector right side up and use a 7/16 to 1/2" brass or wooden dowel rod to gently tap the valve body out of the injector body.
- 4. To remove the indicator stem packing (item #6) from the adjustment adapter (item #3), remove the adjustment screw (item #1) from the adjustment adapter. Use a blunt object, such as a wooden dowel, placed into the adjustment screw hole to gently push the washer (item #5) and packing out of the adjustment adapter, from the bottom side.

Reassembly Instructions:

- 1. Clean all injector components, and carefully inspect all parts for wear, replacing parts as necessary. (See trouble shooting chart for guidance.)
- 2. Install the O-Rings (items #13) and backup rings (items #12) into the grooves on the outside of the valve body. Apply a liberal amount of grease to O-Rings on outside of valve body, and gently push the valve body into the inlet adapter (item #16).

- 3. Install O-Ring (item #4) onto the inlet adapter (item #16). Install inlet adapter into the injector body, and tighten by hand assuring that the valve body slides into it's respective bore in the injector body. Tighten the inlet adapter to the injector body.
- 4. Apply a liberal coating of grease to the slide valve assembly (item #11). Insert the slide valve assembly through the top of the injector into the valve body (Item #14). Apply a liberal coating of grease to the piston bore in the injector body. Drop in the spring (item #9), and place the spacer (item #17) inside the spring.
- 5. Install the O-Ring (item #7) on the piston assembly (item #8). Apply a liberal coat of grease to the piston, O-Ring and indicator rod. Place the piston assembly into the piston bore of the injector body. Install O-Ring on adjustment adapter (item #3). Install washer (item #5) and packing (item #6) into adjustment adapter. Apply grease to the O-Ring on the adjustment adapter and the mating bore in the top of the injector body. Carefully slide the pre-assembled adjustment adapter over indicator pin on the piston assembly (item #8), screw adjustment adapter into the injector body hand tight, then tighten with wrench. Reinstall adjustment screw item #1) into adjustment adapter.

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TROUBLESHOOTING CHART

External leakage at	Damaged or worn body	
body.	O-Rings.	Replace O-Rings (item #4).
External leakage at	Loose Cap	Tighten Cap.
fitting assembly.	Damaged Fitting	Replace fitting (item #10).
External leakage at	Worn or damaged indicator	
indicator rod.	rod packing	Replace packing (item #6)
	Worn or damaged indicator	Replace piston ass'y. (item
	rod.	#8).
	Output adjustment screw	Adjust to proper setting and
	setting incorrect.	lock with lock nut.
Lubricant volume to	Worn or damaged LOWER	Replace O-Rings and back-
bearing LOW.	slide valve body O-Ring.	up rings (items #13 & #12).
	Plunger spring broken or	
	worn.	Replace spring (item #9).
	Output adjustment screw	Adjust to proper setting and
	setting incorrect.	lock with lock nut.
Lubricant volume to	Worn or damaged UPPER	Replace O-Rings & back-up
bearing too HIGH.	slide valve body O-Ring.	rings (items #12 & #13). ©
	Plunger spring broken.	Replace spring (item #9).
	Worn or damaged slide	Replace slide valve ass'y
	valve ass'y.	(item #11).

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 stock equipement and replacement parts.

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