

Series "A"

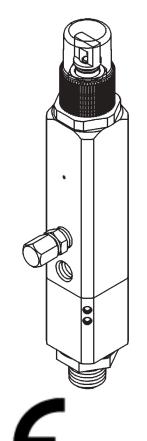
SINGLE AND MANIFOLD TYPE INJECTORS

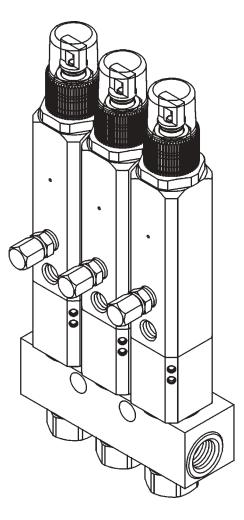
for dispensing fluid lubricants and greases not exceeding Lincoln ventmeter viscosity of 600 psi.

SPECIFICATIONS

Minimum operating pressure – 1850 psi [128 bar] Maximum operating pressure – 6000 psi [413 bar] Recommended operating pressure – 2500 psi [172 bar] Maximum vent (recharge) pressure – 1000 psi [69 bar] Temperature Range - -40°F to 180°F [-40°C - 80°C] Lubricant output (adjustable):

SL-V - 0.015 to 0.080 cu. in. [0.25 to 1.31 ccm] **SL-V HO** - 0.015 to 0.305 cu. in. [0.25 to 5.00 ccm] Injectors can be mounted in any position and can be used in circuits with SL-1, SL-11, SL-32 and/or SL33 injectors.







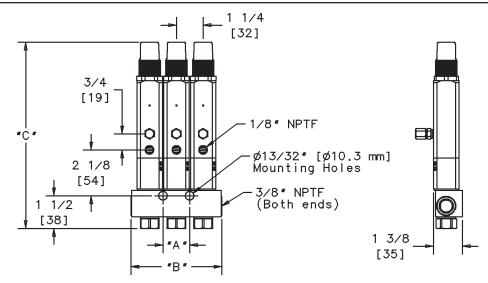
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U.S Patent Number 6,705,432 Foreign Patents Pending

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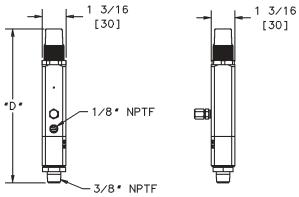




MANIFOLD TYPE INJECTORS

Injector	Model	Туре	Dimension "A"		Dimension "B"		Dimension "C"	
			in.	[mm.]	in.	[mm.]	in.	[mm.]
SL-V	85770-1	Single injector manifold	*	*	2-1/2	[63.5]		
	85770-2	Tw o injector manifold	*	*	3	[76.2]	8-3/4	[222]
	85770-3	Three injector manifold	1-1/4	[31.8]	4-1/4	[108]		
	85770-4	Four injector manifold	2-1/2	[63.5]	5-1/2	[140]		
	85770-5	Five injector manifold	3-3/4	[95.3]	6-3/4	[171]		
	85770-6	Six injector manifold	5	[127]	8	[203]]	
	85771	Replacement injector	N/A		N/A			
SL-V HO	85780-1	Single injector manifold	*	*	2-1/2	[63.5]		
	85780-2	Tw o injector manifold	*	*	3	[76.2]		
	85780-3	Three injector manifold	1-1/4	[31.8]	4-1/4	[108]		
	85780-4	Four injector manifold	2-1/2	[63.5]	5-1/2	[140]	11-3/16	[284]
	85780-5	Five injector manifold	3-3/4	[95.3]	6-3/4	[171]		
	85780-6	Six injector manifold	5	[127]	8	[203]		
	85781	Replacement injector	N/A		N/A			

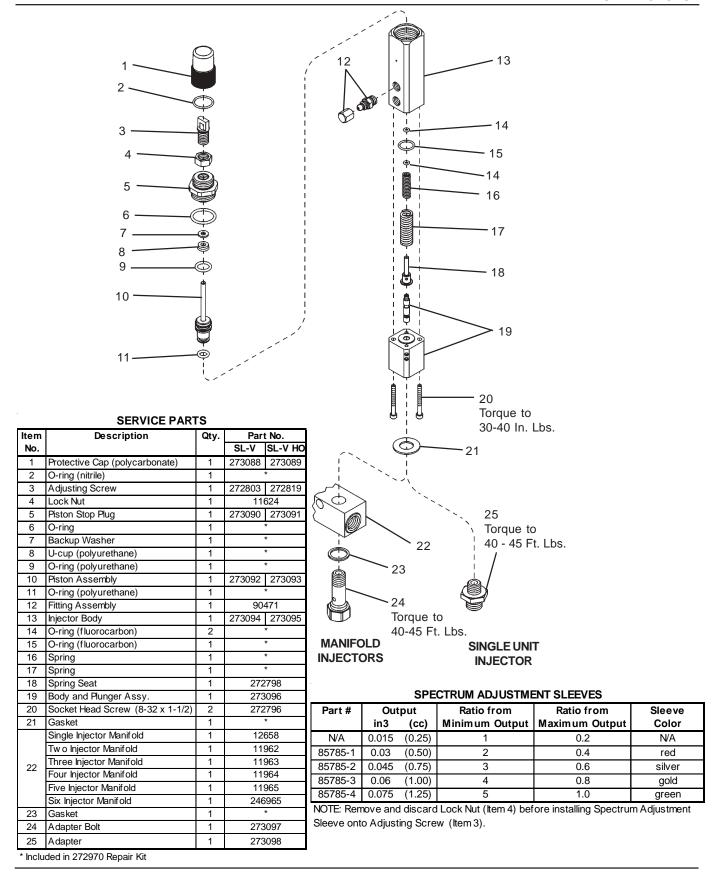
* Single mounting hole

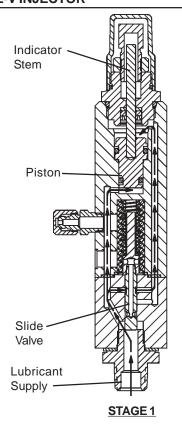


SINGLE UNIT INJECTORS

Injector	Model	Туре	Dimension "D"		
			in.	[mm.]	
SL-V	85772	Single unit injector	7-3/4	[191]	
SL-V HO	85782	Single unit injector	10-3/16	[248]	







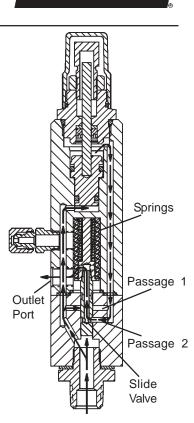
SL-V Injector Operation

Stage 1

The injector starts in its normal or rest position. Incoming lubricant is directed through the slide valve to both sides of the piston. The pressure of the incoming lubricant acting on both sides of the piston causes the piston to move downward against the shoulder and fills the measuring chamber. The indicator stem is fully retracted away from the stop of the adjusting screw.

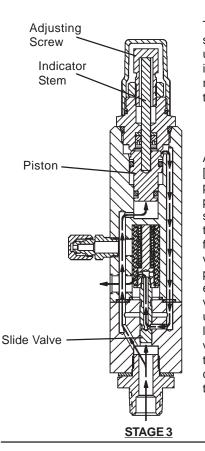
Stage 2

Further increase in pressure causes the slide valve to move against the force of the springs. As the slide valve moves, it closes passage 1 and opens passage 2 to the outlet port. The pressure of the incoming lubricant is now acting only upon the bottom of the piston. The incoming lubricant displaces the piston which forces the lubricant in the measuring chamber to be dispensed through passage 2, through the slide valve and through the outlet port to the lube point.



LINCOLN

STAGE 2

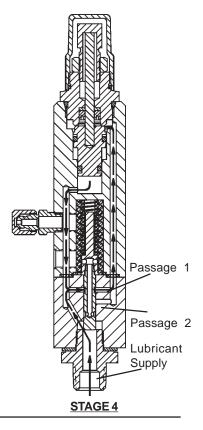


Stage 3

The piston will dispense lubricant until the indicator stem hits the stop of the adjusting screw. The volume of lubricant dispensed can be adjusted by limiting the travel of the piston. The piston and slide valve remain in this position until the lubricant pressure in the supply line is vented.

Stage 4

As the pressure in the supply line vents to 1000 psig [69 bar], the slide valve moves downward and closes passage 2 and opens passage 1. The lubricant pressure in the supply line is now acting upon both sides of the piston causing it to move downward. As the piston moves downward, a volume of lubricant flows from the underside of the piston, past the slide valve, through passage 1 and to the upper side of the piston. Since the volume on top of the piston is greater than the volume under the piston, an additional volume of lubricant flows from the supply line to the upper side of the piston. This volume of lubricant leaving the supply line causes the pressure to drop very quickly. The piston may or may not fully return to the shoulder, depending upon the volume of lubricant in the supply line. The injector is now ready for the next cycle.





Lincoln Industrial Standard Warranty

LIMITED WARRANTY

Lincoln warrants the equipment manufactured and supplied by Lincoln to be free from defects in material and workmanship for a period of one (1) year following the date of purchase, excluding therefrom any special, extended, or limited warranty published by Lincoln. If equipment is determined to be defective during this warranty period, it will be repaired or replaced, within Lincoln's sole discretion, without charge.

This warranty is conditioned upon the determination of a Lincoln authorized representative that the equipment is defective. To obtain repair or replacement, you must ship the equipment, transportation charges prepaid, with proof of purchase to a Lincoln Authorized Warranty and Service Center within the warranty period.

This warranty is extended to the original retail purchaser only. This warranty does not apply to equipment damaged from accident, overload, abuse, misuse, negligence, faulty installation or abrasive or corrosive material, equipment that has been altered, or equipment repaired by anyone not authorized by Lincoln. This warranty applies only to equipment installed, operated and maintained in strict accordance with the written specifications and recommendations provided by Lincoln or its authorized field personnel.

THIS WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE WARRANTY OF MERCHANTIBILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

In no event shall Lincoln be liable for incidental or consequential damages. Lincoln's liability for any claim for loss or damages arising out of the sale, resale or use of any Lincoln equipment shall in no event exceed the purchase price. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, therefore the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights. You may also have other rights that vary by jurisdiction.

Customers not located in the Western Hemisphere or East Asia: Please contact Lincoln GmbH & Co. KG, Walldorf, Germany, for your warranty rights.

Lincoln Industrial Special Limited Warranty

SPECIAL LIMITED 2 YEAR WARRANTY

SL-V Series, Single Injectors-85772, 85782, and Replacement Injectors-85771, 85781

Lincoln warrants the SL-V Injector series to be free from defects in material and workmanship for two (2) years following the date of purchase. If an injector model (single or replacement) is determined to be defective by Lincoln, in its sole discretion, during this warranty period, it will be repaired or replaced, at Lincoln's discretion, without charge.

Lincoln Industrial Contact Information

To find Lincoln Industrial's Nearest Service Center

Call one of the following numbers, you may also use our wbsite

Customer Service - 314-679-4200 Website - www.lincolnindustrial.com



Declaration by the manufacturer as defined by machinery directive 89/392/EEC Annex IIB

Herewith we declare that the supplied model of

SL-V

is intended to be incorporated into machinery covered by this directive and must not be put into service until the machinery into which it is to be incorporated has been declared in conformity with the provisions of the directive.

Applied harmonized standards in particular:

EN292 T1/T2 prEN 809

Paul A. Conley

Paul Conley, Chief Engineer