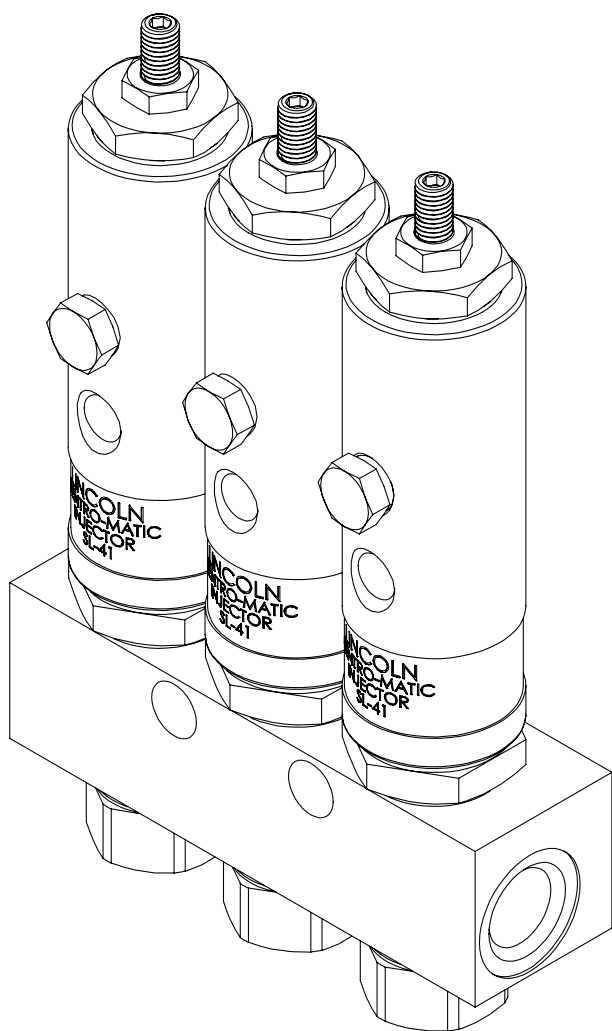


SL-41 injector

Models 82294-1, -2, -3, -4, -5, 82292, 82295



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* Indicates change.

EC Declaration of Incorporation*

Manufacturer: SKF
5148 N. Hanley Road
St Louis, MO U.S.A.
URL: SKF.com
Phone: 314-679-4200

EU Contact: SKF
Heinrich-Hertz-Straße 2-8
69190 Walldorf
Phone: 49 (0) 6227-33259

Description: Metering valve
Product: SL-41 injector
Models 82294-1, 82294-2, 82294-3, 82294-4, 82294-5, 82292,
82295
Year of construction: *see type identification plate*

complies with all basic requirements of the following directives at the time when first being launched in the market.

Report No.'s: NA

The equipment indicated on this declaration complies with the following directives:

Machinery Directive 2006/42/EC

And was evaluated using the following harmonized EN standards:

EN ISO 12100:2010, EN ISO 4413:2010, EN 349

SKF declares under its sole responsibility that the
SL-41 injector models 82294-1, 82294-2, 82294-3, 82294-4,
82294-5, 82292, 82295
are in conformity with the Machinery Directive 2006/42/EC.

In the case of modifications or alterations of the above mentioned machine not authorized by the manufacturer, validity of this EC Declaration of Conformity will cease. The person empowered to assemble the technical documentation on behalf of the manufacturer is the head of standardization;
see EC-representative's address.



Brad Edler
Manager Product Development
Product Engineering LPD North America
Innovation and Product Management
January 2020

* Indicates change.

Explanation of signal words for safety

NOTE

Emphasizes useful hints and recommendations as well as information to prevent property damage and ensure efficient trouble-free operation.

⚠ CAUTION

Indicates a dangerous situation that can lead to light personal injury if precautionary measures are ignored.

⚠ WARNING

Indicates a dangerous situation that could lead to death or serious injury if precautionary measures are ignored.

⚠ DANGER

Indicates a dangerous situation that will lead to death or serious injury if precautionary measures are ignored.

Safety

Read and carefully observe these operating instructions before unpacking and operating equipment. Equipment must be operated, maintained and repaired exclusively by persons familiar with operating instructions. Local safety regulations regarding installation, operation and maintenance must be followed.

Operate equipment only after safety instructions and this service manual are fully understood.

Mounting

Injectors can be mounted in any position and can be used in circuits with SL-42, SL-43, SL-44 injectors.

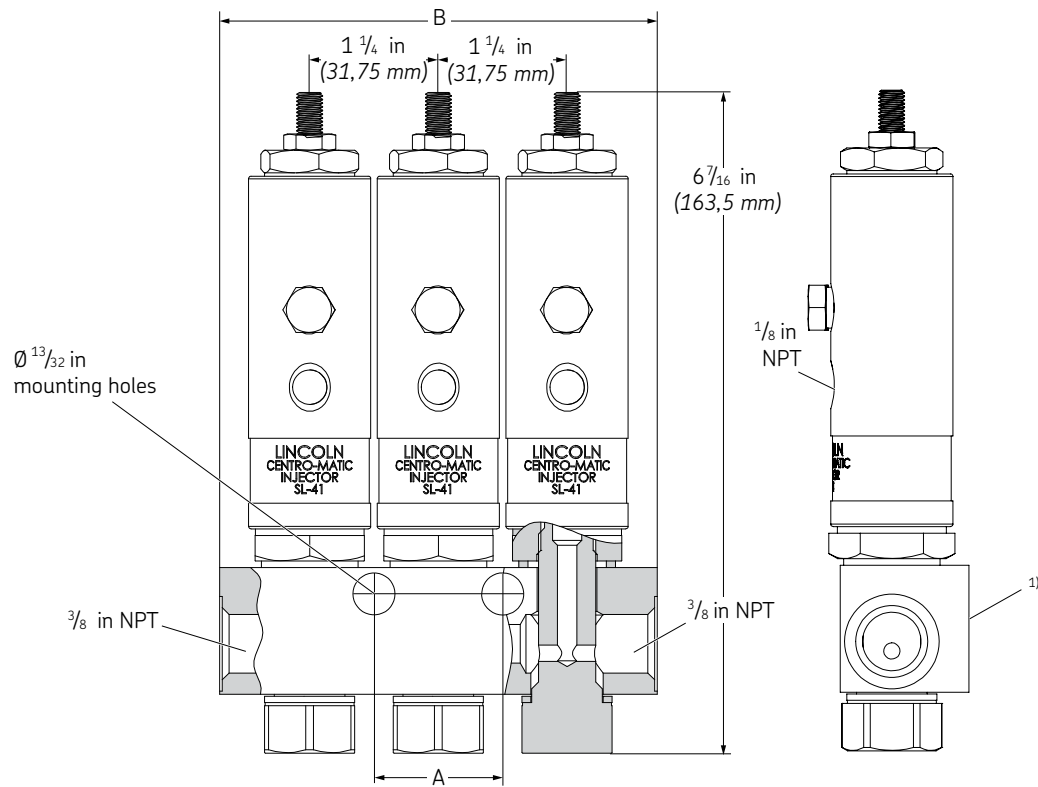
Adjusting procedure

- 1 Turn the adjusting screw (1) all the way in until it stops.
- 2 Back the adjusting screw (1) out 9 turns from this position which will give you the approximate minimum lubricant output.
- 3 Each turn out from that minimum position will increase the output by approximately 0.008 in^3 (0.131 cm^3) of lubricant.
- 4 Maximum lubricant output of approximately 0.080 in^3 (1.31 cm^3) is achieved at approximately 16 turns from the totally closed position.
- 5 Lubricant output accuracy should be verified for critical bearing requirements.

Specifications

Maximum operating pressure	1 000 psi (69 bar)
Normal operating pressure	850 psi (59 bar)
Maximum vent (recharge) pressure	150 psi (10 bar)
Lubricant output is adjustable from	0.008 to 0.08 in^3 (0,131 to $1,31 \text{ cm}^3$)

Model 82295 injector used with manifolds



Injectors

Model	Description	Dimension A	Dimension B	Manifold
82294-1	Single injector	2)	2 1/2 in (6,35 cm)	12658
82294-2	Two injectors	2)	3 in (7,62 cm)	11962
82294-3	Three injectors	1 1/4 in (3,2 cm)	4 1/4 in (10,8 cm)	11963
82294-4	Four injectors	2 1/2 in (6,35 cm)	5 1/2 in (14 cm)	11964
82294-5	Five injectors	3 3/4 in (9,53 cm)	6 3/4 in (17 cm)	11965

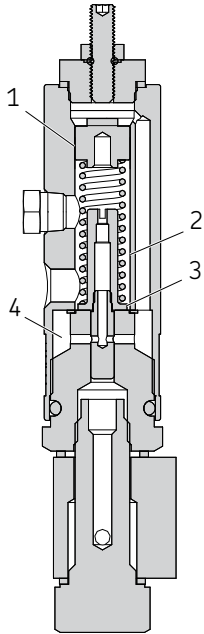
1) Manifold

2) Single mounting hole

* Indicates change.

Fig. 2*

Stage 1



* Indicates change.

Operation

Stage 1

- 1 Piston (1) at rest in normal position (→ fig. 2).
- 2 Measuring chamber (2) filled with lubricant from previous cycle (not under pressure).
- 3 Slide valve (3) about to open under pressure of lubricant and uncover passage (4) leading to piston.

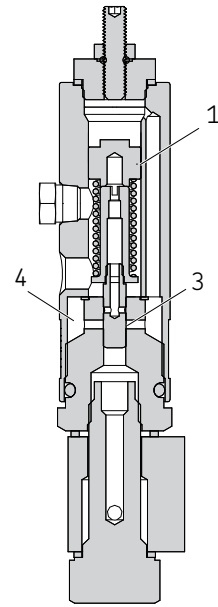
Stage 2

- 1 Slide valve (3) has now uncovered passage (4) admitting lubricant (→ fig. 3).
- 2 Lubricant, under pressure, forces piston (1) down.
- 3 Piston (1) forces lubricant from measuring chamber (2) through outlet port (5).

Stage 3

Fig. 4*

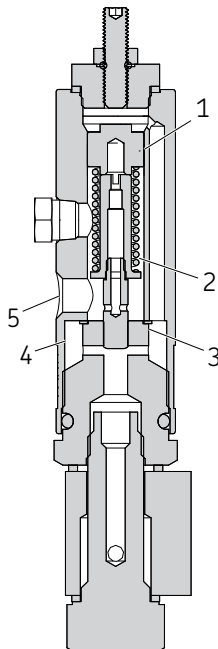
Stage 3



* Indicates change.

Fig. 3*

Stage 2



* Indicates change.

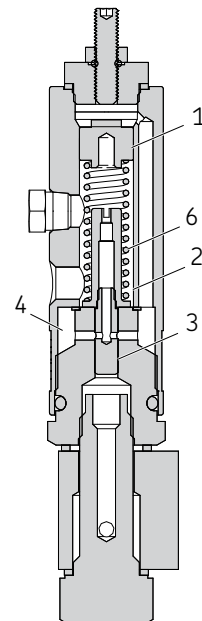
- 1 Piston (1) has completed full stroke. Slide valve (3) has been forced down, cutting off flow of lubricant to passage (4) (→ fig. 4).
- 2 Piston and slide valve remain in position until lubricant pressure in supply line is relieved by vent valve.

Stage 4

- 1 Lubricant pressure in supply line has now been relieved by vent valve (→ fig. 5).
- 2 Spring (6) expands causing slide valve (3) to move downward so that passage (4) and measuring chamber (2) are connected through outlet port.
- 3 Spring (6) causes piston (1) to move upward, forcing lubricant through passage (4) to refill measuring chamber (2).

Fig. 5*

Stage 4



* Indicates change.

Item	Description
1	Injector piston
2	Measuring chamber
3	Slide valve
4	Passage
5	Outlet port
6	Spring

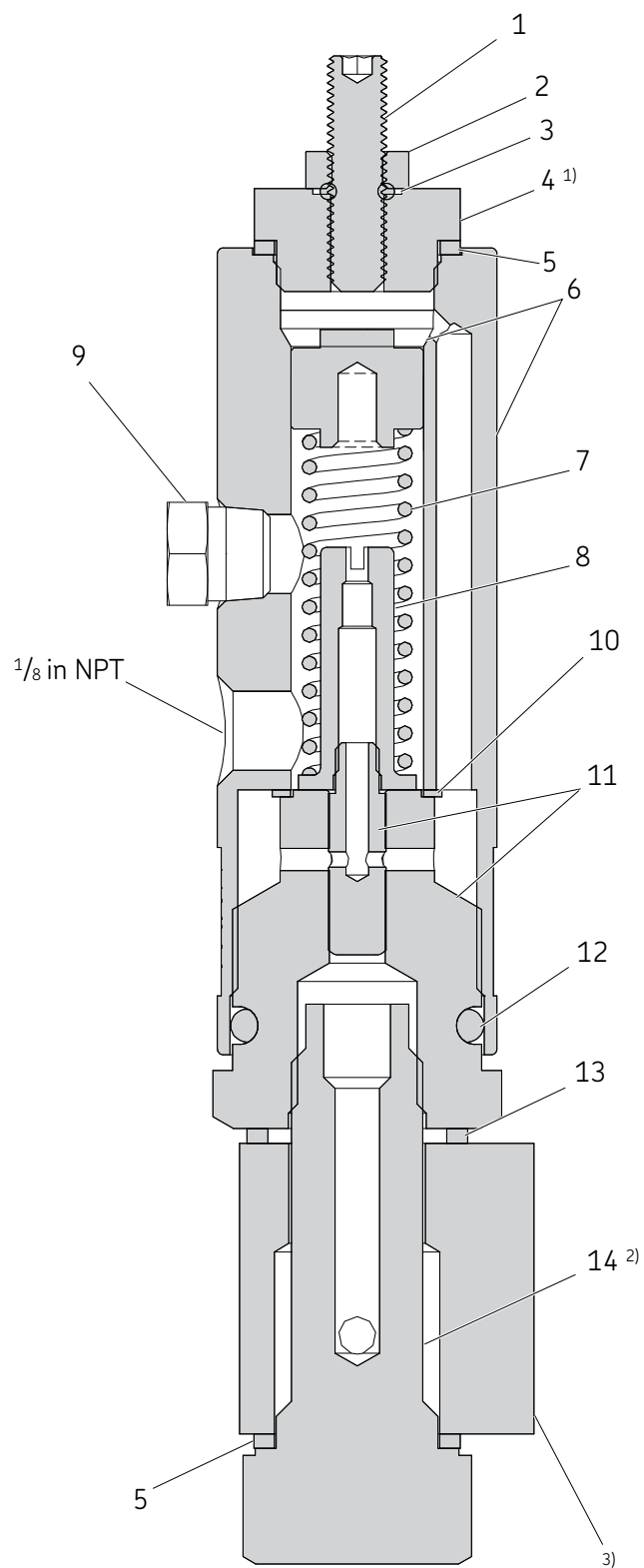
Service parts

Item	Description	Quantity	Part number
1	Adjusting screw	1	50527
2	Lock nut	1	51009
3	O-ring	1	34179
4	Piston stop plug	1	12660
5	Gasket	1) [*]	31057
6	Piston and injector body assembly	1	91184
7	Spring	1	55227
8	Spring seat	1	12661
9	1/8 in pipe plug	1	12511
10	Gasket	1	31014
11	Bushing and plunger assembly	1	91157
12	O-ring	1	34185
13	Gasket	1	31064
14	Adapter bolt	1	11961
15	Adapter	1	13216

¹⁾ One required for model 82292. Two gaskets are required for each manifold mounted injector.*

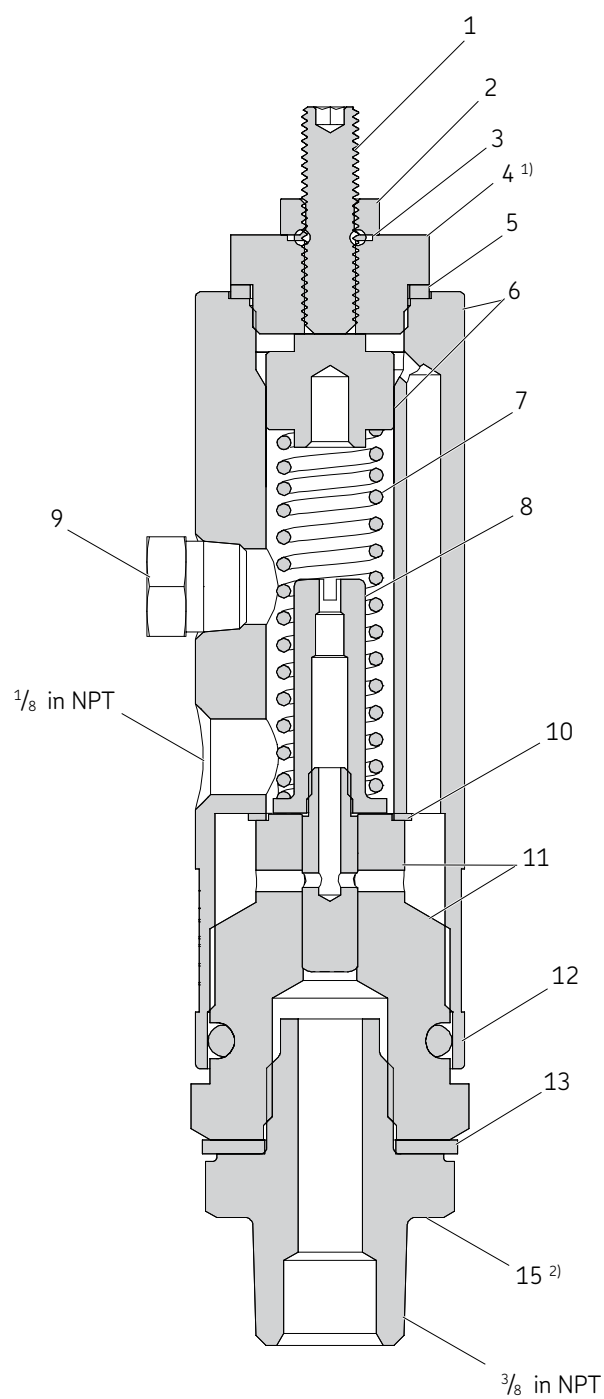
* Indicates change.

Model 82295



* Indicates change.

Model 82292



¹⁾ Torque to 25 to 30 ft.lbf (2,82 to 3,38 Nm).

²⁾ Torque to 45 to 50 ft.lbf (61 to 67,7 Nm).

* Indicates change.

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Warranty

The instructions do not contain any information on the warranty. This can be found in the General Conditions of Sales, available at: www.lincolnindustrial.com/technicalservice or www.skf.com/lubrication.

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