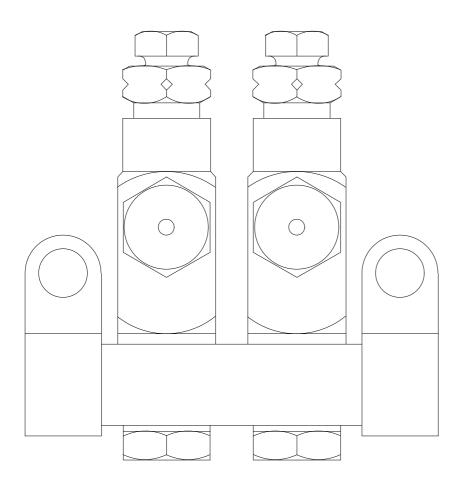


SL-42 injector

Models 83311, 83313, 83535, series "H"



Date of issue	January 2020		
Form number	403215		
Version	2		



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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-42 injector

Model(s): 83311-1,8311-2,83311-3,83311-4,83311-5,83311-6,83311-10,83311-15,83535,83313, 84428-1,84428-2,84428-3,84428-4,84428-5,84428-6,84428-10,84428-15, 84808

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 42 Injector models 83311-1,8311-2,83311-3,83311-4,83311-5,83311-6,83311-10,83311-15,83535,83313, 84428-1,84428-2,84428-3,84428-4,84428-5,84428-6,84428-10,84428-15,84808

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.



Safety

Read and carefully observe installation instructions before installing/operating/troubleshooting assembly. Assembly must be installed, maintained and repaired exclusively by persons familiar with instructions.

Install assembly only after safety instructions and guide have been read and are completely understood.

Adequate personal protection must be used to prevent splashing of material on skin or in eyes.

Always disconnect power source (electricity, air or hydraulic) from pump when not in use.

Equipment generates very high grease pressure. Extreme caution should be used when operating this equipment as material leaks from loose or ruptured components can inject fluid through the skin and into body. If any fluid appears to penetrate skin, seek attention from doctor immediately.

Do not treat injury as simple cut. Tell attending doctor exactly what type of fluid was injected.

Any other use not in accordance with instructions will result in loss of claim for warranty or liability.

- Do not misuse, over-pressurize, modify parts, use incompatible chemicals, fluids, or use worn and/or damaged parts.
- Do not exceed stated maximum working pressure of pump or of lowest rated component in system.
- Always read and follow fluid manufacturer's recommendations regarding fluid compatibility, and use of protective clothing and equipment.
- Failure to comply may result in personal injury and/or damage to equipment.

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.



Specifications

Adjustable from 0.001 to 0.003 in 3 (0.016 to 0.049 cm 3) 750 to 1000 psi (51 to 69 bar) 850 psi (58 bar) Output

Operating pressure
Recommended operating pressure

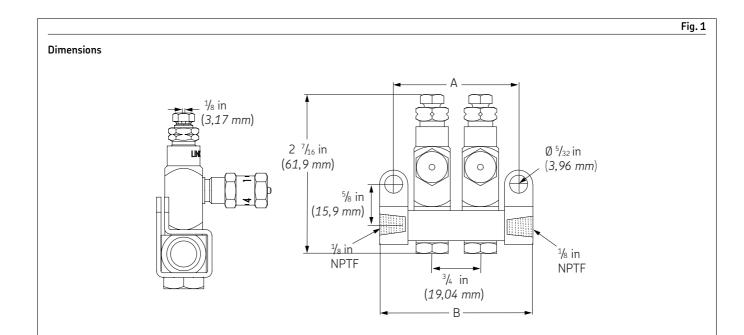
150 psi (10 bar) Recharge pressure

NOTE

May be used in a system with SL-41, SL-43 or SL-44 Injectors.

NOTE

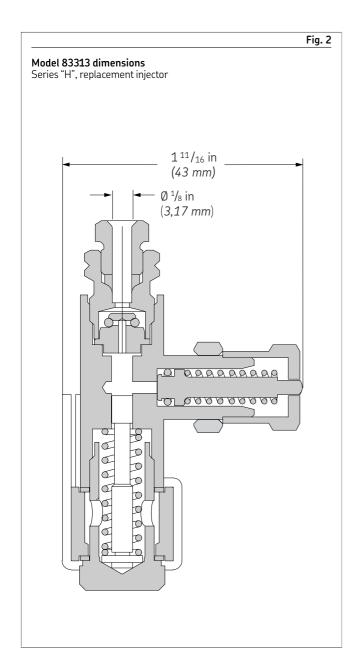
Injector used for dispensing oil.

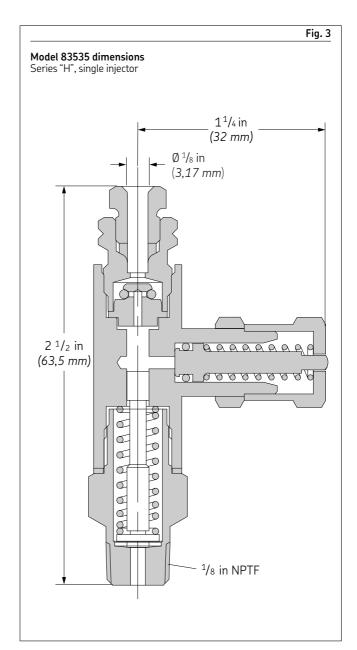


Manifold chart*

Model	Description	Dimension A	Dimension B	Manifold
83311-1	1 unit	1 1/8 in (28 mm)	1 5/8 in (41 mm)	91863-1S
83311-2	2 units	1 7/8 in (47 mm)	2 3/8 in (60 mm)	91864-1S
83311-3	3 units	2 5/8 in (67 mm)	3 1/8 in (79 mm)	91865-1S
83313-4	4 units	3 3/8 in (85 mm)	3 7/8 in (98 mm)	91866-1S
83311-5	5 units	4 1/8 in (105 mm)	4 5/8 in (117 mm)	14361S
83311-6	6 units	4 7/8 in (123 mm)	5 3/8 in (136 mm)	91976-1S
83311-10	10 units	7 7/8 in (200 mm)	8 ³ /8 in (<i>213 mm</i>)	14312S
83311-15	15 units	11 ⁵ /8 in (295 mm)	12 ¹ /8 in (<i>308 mm</i>)	14253S

* Indicates change.





Operation

Supply line under pressure

Normal operating pressure 850 psi (586 bar).

Lubricant pressure moves plunger to force lubricant in discharge chamber through outlet check valve to the feed line.

Lubricant from supply line charges measuring chamber.

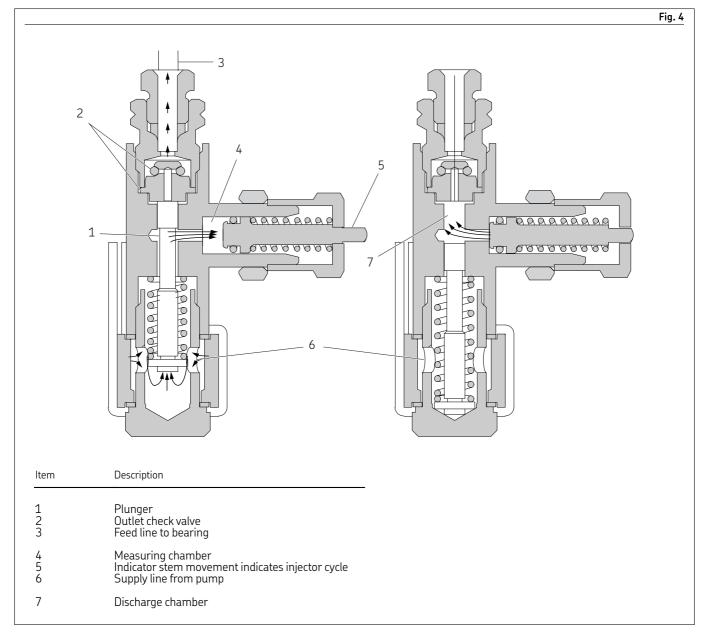
Supply line vented

Vent pressure 150 psi (10 bar) maximum.

Plunger returns to normal position after supply line is vented, connecting measuring chamber to discharge chamber.

Flow from feed line is blocked by outlet check valve.

Lubricant is automatically transferred from measuring chamber to discharge chamber.



Injector adjustment

Injector output is controlled by position of indicator cap that limits travel of indicator piston.

To achieve advertised minimum output setting, 0.001 in³ (0.016 cm³), hand tighten indicator cap against stop and loosen approximately 1/2 turn.

Retracting indicator cap two full turns from hand tight position permits maximum output of 0.003 in³ (0.049 cm³) to be dispensed.

Use graduations on cap as aid in setting indicator.

When injector has been adjusted for proper lubricant output, lock nut is tightened against face of indicator cap.

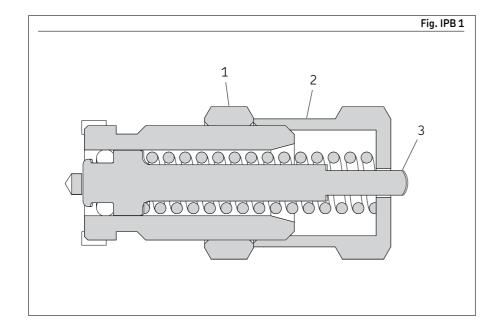
NOTE

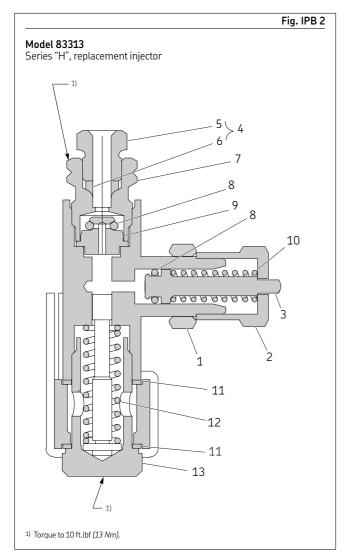
Any output setting less than 1/2 turn should be monitored to verify actual output volume.

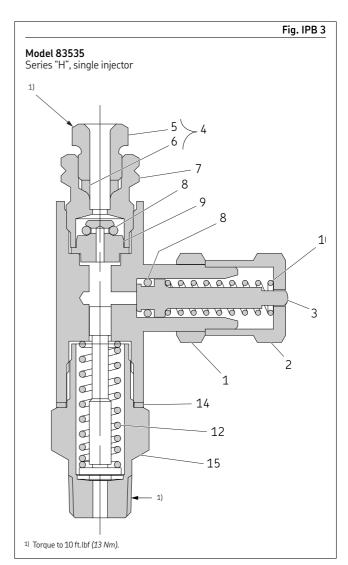
△ CAUTION

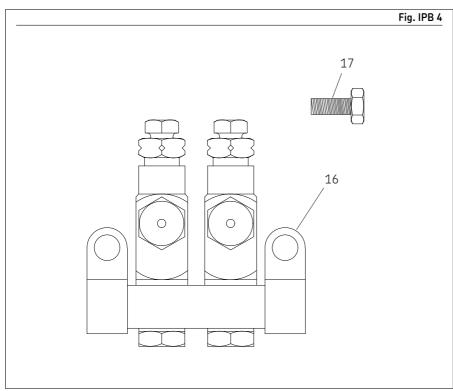
retracted postion of indicator stem.
Failure to comply may result in light personal injury or damage to equipment.

Indicator cap must not extend beyond









Service parts							
Item	Description	Part number	Quantity	ltem	Description	Part number	Quantity
1 2 3	Lock nut Injector cap Piston	51119 247942 ¹⁾ 247849 ¹⁾	1 1 1	10 11 12	Spring Gasket Spring	247854 1) 2) 31138 1) 2) 55300 1) 2)	1 2 1
4 5 6	Compression nut assembly Compression nut Ferrule	83924 14658 14659	1 1 1	13 14 15	Adapter Gasket Injector inlet adapter	13871 31142 ^{1) 2)} 14181	1 1 1
7 8 9	Outlet body O-ring (Nitrile) Check seat	14986 34499 1) 2) 237883 1) 2)	1 2 1	16 17	Manifold mounting clip Mounting screw	45924 50006	2 2
1) Included in 247954 upgrade kit. 2) Included in 247963 repair kit.							

NOTE

Injectors from previous series can be improved with stenciled cap and single piece piston by use of 247954 upgrade kit.



SKF.

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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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