

SKF Lincoln injection oilers

Super precise oil metering

Updated with models providing a fixed metering volume of 2 or 3 mm³/stroke



ACCURATE
DOSAGE OF
VERY SMALL
VOLUMES

The SKF Lincoln injection oiler is designed to precisely lubricate with very small, fixed metering volumes.

An improved piston design with a smaller diameter provides high accuracy and very small volumes.

The oil flow with very small volumes allows to reduce maintenance times while keeping the machine working. In addition, the very small volumes also help to reduce the total oil consumption.

The oil can be supplied from one central reservoir, a standalone reservoir, or by a central pressurized oil line. Metering elements can be actuated individually but also in groups. Injection oilers without reservoir can be combined to groups of maximum six oilers to support up to six lubrication points.

The versions with fixed metering extend the SKF line of injection oilers.

Injection oilers work reliably in applications requiring precise dosing including oil/air lubrication of pneumatic cylinders and spindles, oil spindle lubrication and oiling to support assembly tools.

Benefits:

- High accuracy
- Precise oil metering with very small, fixed metering volume
- Reduced total oil consumption
- Reduced maintenance time
- Improved process safety
- Combination to groups of maximum six oilers



1-port version with and without reservoir



4-port version without reservoir



6-port version without reservoir

Technical data

Function principle	Air-operated high-precision piston pump	
Lubricants	Mineral and synthetic oils compatible with NBR-elastomers, copper and copper alloys at an operating viscosity of 20–1 100 mm ² /s	
Operating temperature	-10 to +40 °C	+14 to 104 °F
Oil supply	Gravity reservoir or with max. 3 bar prepressure	
Reservoir capacity	0.25 l	0.066 gal
Number of outlets	1 to 6	
Delivery rate ±20%	2 mm ³ /stroke	0.012 in ³ /stroke
	3 mm ³ /stroke	0.018 in ³ /stroke
Outlet connection	M6x0.75 for pipe Ø2.5 mm Solderless pipe union	
Inlet air connection	G ¹ / ₈	
Inlet air pressure	3–8 bar	
Max. back pressure	up to 38 bar	
Actuation frequency min.	2 Hz	
Protection class	IP 54	
Mounting position	Outlet horizontal	
With reservoir	Any, preferably with outlet upright	
Without reservoir		
Dimensions (WxDxH)		
1-port version w/o reservoir	95x56.8x40 mm	3.74x2.23x1.57 in
1-port version w reservoir	117x73x128 mm	4.6x2.87x5.04 in
Weight		
1-port version w/o reservoir	0.20 kg	0.44 lb
1-port version w reservoir	0.48 kg	1.06 lb
Materials		
Reservoir	PETP	
Seals	NBR, aluminium	
Housing	Aluminium	
Fittings	Brass, steel zinc plated	

Order details

Part number	Description
Injection oiler with fixed metering of 2 mm ³ /stroke	
501-301-302	1-port version w/o reservoir
501-301-312	1-port with reservoir ¹⁾
501-302-302	2-port version w/o reservoir
501-304-302	4-port version w/o reservoir
501-306-302	6-port version w/o reservoir ²⁾
Injection oiler with fixed metering of 3 mm ³ /stroke	
501-301-303	1-port version without reservoir
501-301-313	1-port with reservoir ¹⁾
501-302-303	2-port version w/o reservoir
501-304-303	4-port version w/o reservoir
501-306-303	6-port version w/o reservoir ²⁾

- ¹ The gravity reservoir is approved for use with the 1-port version only.
- ² More than six modules on request

Accessories / Spare parts

Part number	Description
881-270-000	Mounting bracket
995-900-105+PL3	Reservoir, complete



For fittings and accessories, please refer to the extensive product catalogue “**Fittings and accessories for lubrication systems**”
→PUB LS/P1 15859 EN