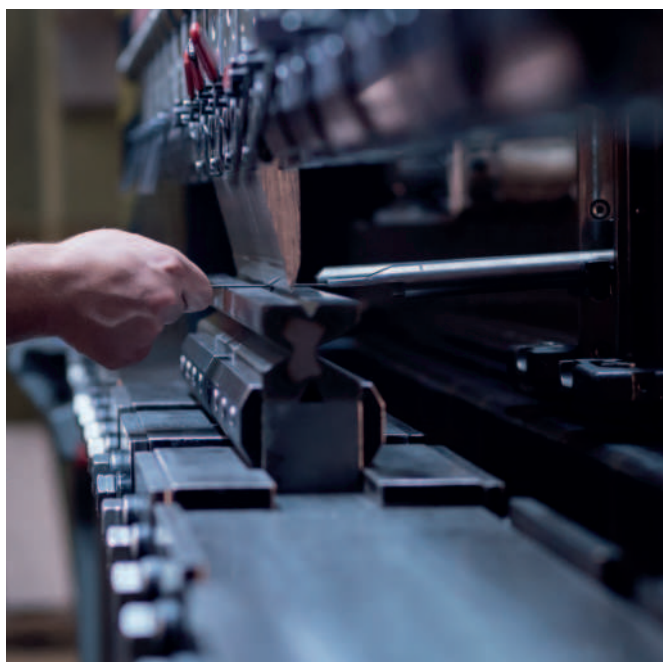


Super precise oil metering

SKF Lincoln injection oilers updated with models providing a fixed metering volume of 3 mm³/stroke



The SKF Lincoln injection oiler is designed to constantly lubricate with small volumes and very precise dosage.

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

The constant 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

Technical data

Function principle	Air-operated lubrication pump	
Lubricants	Mineral and synthetic oils with NBR-elastomers, copper and copper alloys at an operating viscosity of 20–1 100 mm ² /s -10 to +55 °C +14 to 131 °F	
Operating temperature	Pressure free reservoir	
Oil supply	0.25 l	0.066 gal
Reservoir capacity	1	
Number of outlets	3 mm ³ /stroke ±20% 0.018 in ³ /stroke	
Delivery rate	G ¹ / ₄	
Outlet connection	G ¹ / ₈	
Inlet air connection	5–8 bar 72–116 psi	
Inlet air pressure	up to 38 bar up to 551 psi	
Max. working pressure	2 Hz	
Actuation frequency min.	IP 54	
Protection class pump	upright	
Mounting position	Dimensions (W×D×H)	
	501-301-303	95×56.8×40 mm 3.74×2.23×1.57 in
	501-301-313	117×73×128 mm 4.6×2.87×5.04 in
	Weight	
	501-301-303	0.20 kg 0.44 lb
	501-301-313 (empty)	0.48 kg 1.06 lb
Materials	Reservoir	
Reservoir	PETP	
Gaskets, seals	NBR, aluminium	
Housing	Aluminium anodized	
Fittings	Brass, steel zinc plated	

Order details

Part number	Description
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

Accessories

Part number	Description
To couple two, up to six modules*	
853-520-000	Flange nut M6
DIN912-M6×22;	Cylinder head bolt
×45; 70; 95; 120; 140	
To assemble the lubrication line	
WVN715-R02.25×0.5	Plastic tube
402-603	Reinforcing socket
402-611	Tapered sleeve
402-612	Socket union

* More than six modules on request

Spare parts

Part number	Description	Use with
995-900-105+PL3	Reservoir, complete	501-301-313 501-301-303