



LUBelite™ Single-line Lubrication System

■ LEP Single-line Lubrication Pump Unit



✧ Product Description

LUBELite™ single-line pump unit is a kind of low-cost but high-quality pump unit which is being used in construction machinery, on-road machine, machine tool and general machinery widely.

This pump unit has a preset operating pressure of 180 bar (adjustable between 0 bar and 250 bar in terms of piping back-pressure condition). Hence, the applicable lubricant viscosity can be as high as NLGI 2 grease.

Each lubrication pump can have only 1 pump element installed with displacement of 6.0 cm³/min, forming 1 single-line lubrication system.

✧ Product Features

1. Flexible power supply: either DC 24V or AC 230V/50Hz.
2. Pressure adjustable relief valve: suitable for different system back pressures.
3. Higher protection class: IP 66.
4. High-performance plastics plus die-cast aluminum alloy pump body: reduces overall weight but increases the pump strength.
5. The wider temperature tolerance range improves the pump's operating capability.

✧ Technical Data

<i>Power Supply</i>	DC 24 V or AC 230V/50 Hz	<i>Refilling Port</i>	DIN 71412 A and/or top lid
<i>Rated Power</i>	< 100 W	<i>IP Class</i>	IP 66
<i>Pump Delivery</i>	6.0 cm ³ /min	<i>Lubricant</i>	NLGI 0, 1, 2
<i>Outlet Thread</i>	1 x G 1/4	<i>Mounting</i>	Vertical
<i>Tank Capacity</i>	8, 10 L	<i>Valve Connection</i>	DIN 43650 A
<i>Power Socket</i>	DIN 43650 A	<i>Signal Socket</i>	IEC 61076-2-101-A, 4 P, F
<i>Working Pressure</i>	0 ~ 250 bar adjustable, preset 180 bar	<i>Working Temperature</i>	-41 °C ~ +70 °C

■ LEP Single-line Lubrication Pump Part Number

	<u>LEP</u>	<u>21</u>	<u>3</u>	<u>M</u>	<u>GL</u>	<u>CH</u>	<u>F0</u>	<u>D24</u>
LUBE lite 21 series pump station								
Tank capacity								
3: 8L								
10: 10L								
Pump type								
M: Single-line pump unit								
MT: Single-line pump unit with top lid								
Low level alarm								
GL: DC 24V, PNP NC								
GN: No								
Controller type								
CH: Controller integrated, unit of interval time is Hour								
CM: Controller integrated, unit of interval time is Minute								
Signal and cable code								
Refer to following table								
Power supply								
D24: DC 24V, power socket (DIN 43650A)								
D24V: DC 24V, power socket (DIN 43650A), with 5m cable								
A23: AC 230V / 50Hz, power socket (DIN 43650A)								
A23V: AC 230V / 50Hz, power socket (DIN 43650A), with 5m cable								

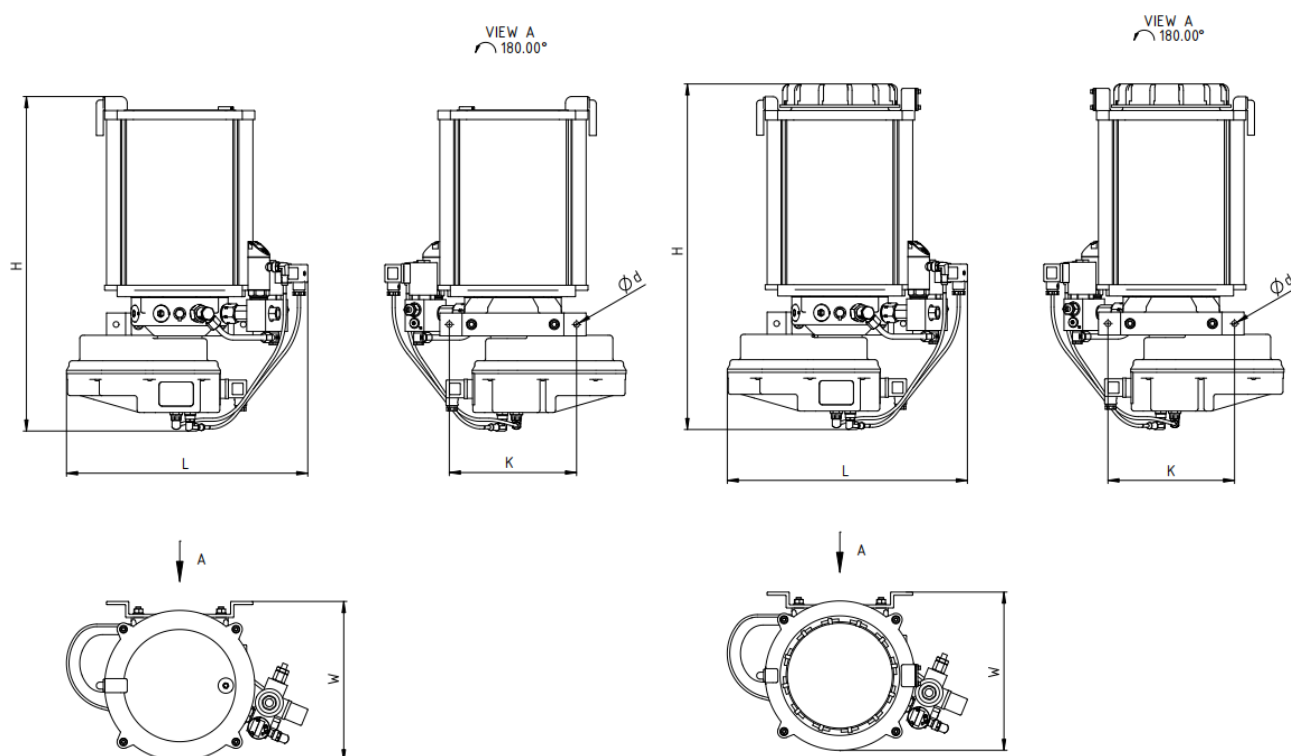
Signal and cable code explanation

The external signal cable kit has two options and they are mutually exclusive. All external signal cables are 5m length.

All signal sockets in pump unit are compliant with IEC 61076-2-101-A (M12x1, 4 pins, female).

Controller		Low level sensor			Pressure switch signal to controller	External signal interaction			External signal cable kit	
		No	Yes			Remote alarm (NO)	Remote startup	Modbus	No kit code	Kit code
Integrated	Signal Code		Signal to controller	Signal to customer						
Yes (CH/CM)	C	X			X				C	
			X		X					
	F	X			X	X			0	F
			X		X	X				
	H	X			X		X		0	H
			X		X		X			
	J	X			X			X	0	J
			X		X			X		
K	X			X	X	X		0	K	

■ LEP Lubrication Pump Unit Dimension



<i>Model</i>	<i>Tank Capacity (L)</i>	<i>Power Supply</i>	<i>H (mm)</i>	<i>W (mm)</i>	<i>L (mm)</i>	<i>K (mm)</i>	<i>Ød (mm)</i>
LEP213M...	8	DC 24V or AC 230V/50Hz	525	250	380	200	9
LEP213MT...			545				
LEP2110M...	10		555	250	380	200	9
LEP2110MT...			575				

■ SFM-1 Single-line Grease Injector



✧ Product Description

The SFM-1 series grease injectors are used in single-line, high-pressure centralized lubrication systems. It can accommodate lubricants with viscosity of up to NLGI 2.

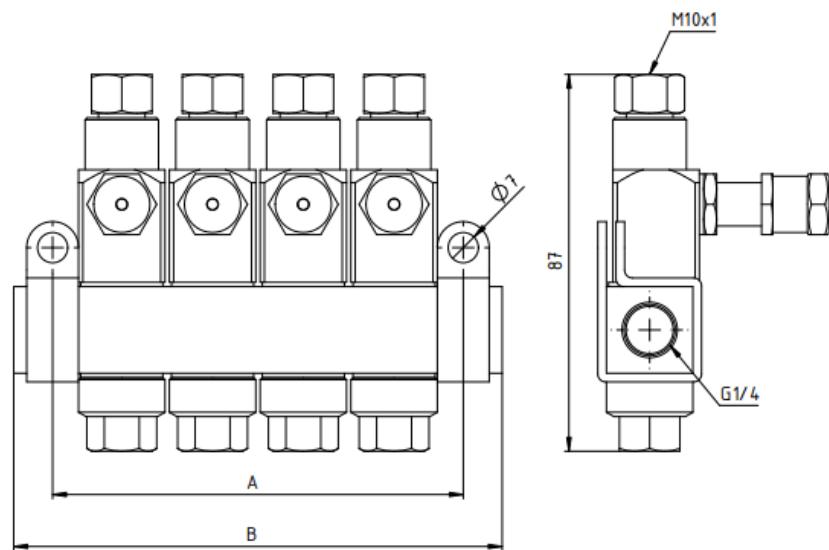
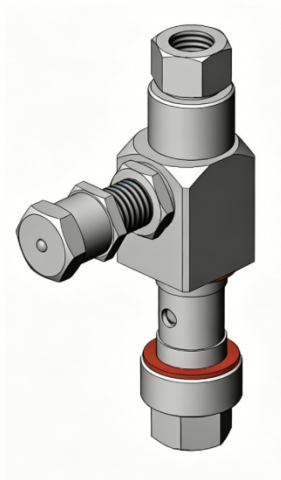
The grease injector can be easily disassembled for inspection or replacement. The injector is solid and reliable, and can be widely used in wind energy, automatic machinery and general machinery, etc.

✧ Product Features

1. The number of outlets for a single-line injector can be chosen from 1 to 6.
2. Adjust the grease flow of each outlet by rotating the adjustment screw.
3. Integrated visual indicator to monitor the working status of each point.
4. The single injector is easy to disassemble and replace.

✧ Technical Data

<i>Working Principle</i>	Intermittent
<i>Number of Outlet</i>	1 ~ 6
<i>Displacement of Each Cycle</i>	0.015 ~ 0.3 cm ³ /cycle, adjustable
<i>Working Pressure</i>	Max. 240 bar
<i>Open pressure</i>	60 bar
<i>Relief Pressure</i>	25 bar
<i>Lubricant</i>	NLGI 0, 1, 2
<i>Inlet Thread</i>	G 1/4
<i>Outlet Thread</i>	M10x1
<i>Working Temperature</i>	-26 °C ~ +80 °C
<i>Mounting</i>	Any position



Model	Name	Number of Outlet	Displacement of Single Injector in Each Cycle	Dimension (mm)	
				A	B
SFM-1-1	Single-line injector (w. bar)	1	0.015 cm ³ ~ 0.3 cm ³	32	50
SFM-1-2	Single-line injector (w. bar)	2	0.015 cm ³ ~ 0.3 cm ³	53	71
SFM-1-3	Single-line injector (w. bar)	3	0.015 cm ³ ~ 0.3 cm ³	74	92
SFM-1-4	Single-line injector (w. bar)	4	0.015 cm ³ ~ 0.3 cm ³	95	113
SFM-1-5	Single-line injector (w. bar)	5	0.015 cm ³ ~ 0.3 cm ³	116	134
SFM-1-6	Single-line injector (w. bar)	6	0.015 cm ³ ~ 0.3 cm ³	137	155
SFM-1	Injector (w/o bar)	1	0.015 cm ³ ~ 0.3 cm ³	/	/

