



Oil Single-line Lubrication System

■ GOP Oil Lubrication Pump

✧ Product Description

This automatic gear oil pump is powered by a single-phase asynchronous motor that drives the pumping gear. When gear teeth disengage, the sealed chamber expands to create partial vacuum, atmospheric pressure draws oil from the tank through pipelines into gear tooth gaps.

As gears rotate, oil is transported to the pressure chamber. Meshing teeth compress the sealed volume and extrude oil, finishing oil delivery.

Equipped with oil injectors and metering parts, it forms a test-run lubrication system. Matched with oil injectors, it builds a positive-displacement lubrication system to supply oil to all lubrication points.



✧ Technical Data

Power Supply	AC 110V/60 Hz AC 230V/50 Hz
Rated Power	20 W
Pump Delivery	160 cm ³ /min
Outlet Thread	M10x1
Tank Capacity	2, 3, 6, 10 L
Power Socket	Wiring connection
Working Pressure	25 bar

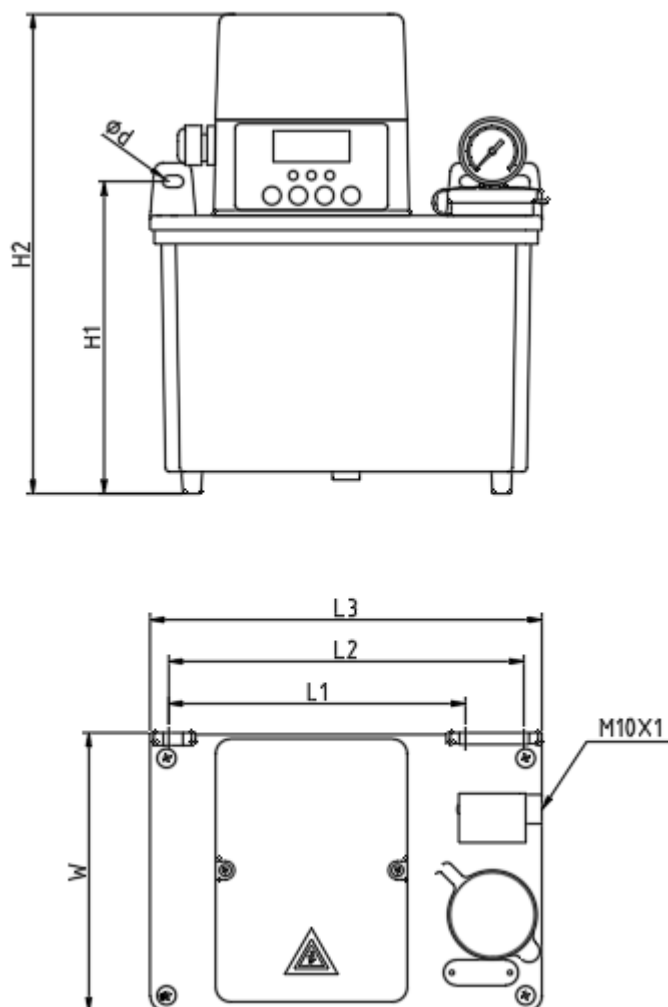
✧ Product Features

1. Operation Modes - Three control modes available for SLR resistive, PDI positive displacement and PULSE pulse centralized lubrication systems, adjustable as needed.
2. Status Indication - Panel lights indicate running, fault and stop states of the lubrication pump.
3. Control Protection - Self-protection with automatic data recovery after power failure or fault.
4. Motor Protection - Continuous-running single-phase motors with thermal protection; 4-pole motors for stable performance.
5. Fault Output - Standard level switch and optional pressure switch output fault signals.
6. Relief Valve - Protects pumps and pipelines against over-pressure damage.
7. Unloading Valve - Pressure release device for PDI systems, compatible with fixed injectors.
8. Air Vent Valve - Quickly bleeds air from pipelines for fast oil filling.

■ GOP Oil Lubrication Pump Part Number

	<u>GOP</u>	<u>03</u>	<u> </u>	<u>C</u>	<u>P</u>	<u>A23</u>
GOP Oil lubrication pump station _____						
Tank capacity _____						
02: 2 L						
03: 3 L						
06: 6 L						
10: 10 L						
Tank material _____						
Blank: AS, transparent (valid for 2L, 3L and 6L tanks)						
M: Metal (valid for 6L and 10L tanks)						
Controller type _____						
Blank: No controller integrated (only manual button)						
C: Controller integrated						
Pressure switch _____						
Blank: No pressure switch						
P: pressure switch integrated						
Power supply _____						
A11: AC 110V / 60Hz						
A23: AC 230V / 50Hz						

■ GOP Oil Lubrication Pump Unit Dimension



Model	Tank Capacity (L)	Power Supply	H1 (mm)	H2 (mm)	W (mm)	L1 (mm)	L2 (mm)	L3 (mm)	Ød (mm)
GOP02...	2	AC 110V/60Hz or AC 230V/50Hz	171.5	263	153	134	166	185	6.5
GOP03...	3		171.5	263	153	163	195	215	6.5
GOP06...	6		190.5	292	179	204.5	254.5	285	8.2
GOP10...	10		199.5	300	189	259.5	309.5	340	8.2

■ SOB Oil Injector

✧ Product Description



Model SOB oil metering injector is a pressure-boosted lubricator. It injects lubricant under system pressure and stores lubricant upon pressure relief, suited for 17 ~ 25 bar volumetric cycle lubrication systems. It supplies fixed-volume lubricant to each lubrication point with 2 ~ 6 optional outlets, each adjustable within rated flow ranges. Ideal for precise lubrication of small and medium machinery.

✧ Technical Data

<i>Working Principle</i>	Intermittent
<i>Number of Outlet</i>	2 ~ 6
<i>Discharge capacity (cm³/cycle)</i>	0.03, 0.06, 0.1, 0.2, 0.3, 0.4, 0.5
<i>Working Pressure</i>	17 ~ 25 bar
<i>Action Guarantee Pressure</i>	8 ~ 14 bar
<i>Lubricant</i>	Oil: 20 ~ 500 cst
<i>Inlet Thread</i>	M10x1
<i>Outlet Thread</i>	M8x1

✧ Product Features

1. Cast aluminum body provides excellent impact resistance and durable service.
2. The number of outlets for a single-line injector can be chosen from 2 to 6.
3. 7 kinds of discharge capacity for different volumetric needs.

■ SOB Oil Injector Part Number

SOB - 4 - 1045

SOB series injector _____

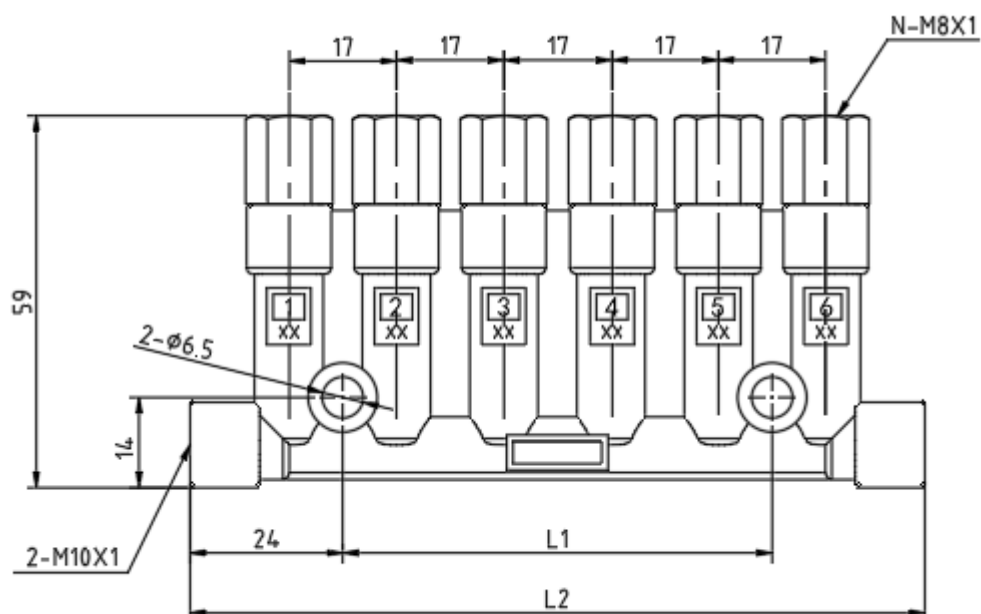
Quantity of outlet _____

2: 2 outlets 3: 3 outlets 4: 4 outlets 5: 5 outlets 6: 6 outlets

Metering unit _____

0: No metering unit 4: 0.4 cm³/cycle
 1: 0.1 cm³/cycle 5: 0.5 cm³/cycle
 2: 0.2 cm³/cycle A: 0.03 cm³/cycle
 3: 0.3 cm³/cycle B: 0.06 cm³/cycle

■ SOB Oil Injector Dimension



Model	Number of Outlet	Dimension (mm)	
		L1	L2
SOB-2-...	2	/	48
SOB-3-...	3	17	65
SOB-4-...	4	34	82
SOB-5-...	5	51	99
SOB-6-...	6	68	116

