



# Fluid Grease Single-line Lubrication System

## ■ FGP Fluid Grease Lubrication Pump

### ✧ Product Description



The FGP electric fluid grease pump uses a geared micro-motor to drive reciprocating plungers for grease suction and delivery.

Low noise design comes with integrated relief valve, check valves, pressure regulator and air vent for steady, trouble-free grease output.

Following plate ensure the grease flow to pump element smoothly without air bubble issue.

It supports three lubrication modes: standalone point supply, single-line systems with metering injectors, and progressive systems paired with progressive dividers.

Ideal for construction, engineering, forging, textile, plastic, food, mining and metallurgy machinery.

### ✧ Technical Data

|                         |                                                 |
|-------------------------|-------------------------------------------------|
| <i>Power Supply</i>     | DC12<br>DC24V<br>AC 110V/60 Hz<br>AC 230V/50 Hz |
| <i>Rated Power</i>      | 25 W                                            |
| <i>Pump Delivery</i>    | 20 cm <sup>3</sup> /min                         |
| <i>Outlet Thread</i>    | M10x1                                           |
| <i>Tank Capacity</i>    | 0.8, 1.5 L                                      |
| <i>Power Socket</i>     | Wiring connection                               |
| <i>Working Pressure</i> | 80 bar                                          |
| <i>Lubricant</i>        | NLGI 000 ~ 1                                    |

### ✧ Product Features

1. Controlled by customer PLC or external SC-100 controller.
2. Integrated filter to reduce impurity and air ingress during refilling.
3. Equipped with a pressure regulating valve to control working pressure and safeguard the lubrication system.
4. Low level alarm is available as an option.
5. Following plate ensures grease in vacuum.

## ■ FGP Fluid Grease Lubrication Pump Part Number

**FGP 08 L R G D24**

**FGP Fluid grease lubrication pump station**

**Tank capacity**

08: 0.8 L

15: 1.5 L

**Low level sensor**

Blank: No

L: Yes

**Pressure relief valve <sup>1)</sup>**

Blank: No

R: Yes

**Pressure gauge**

Blank: No

G: Yes

**Power supply**

D12: DC 12V

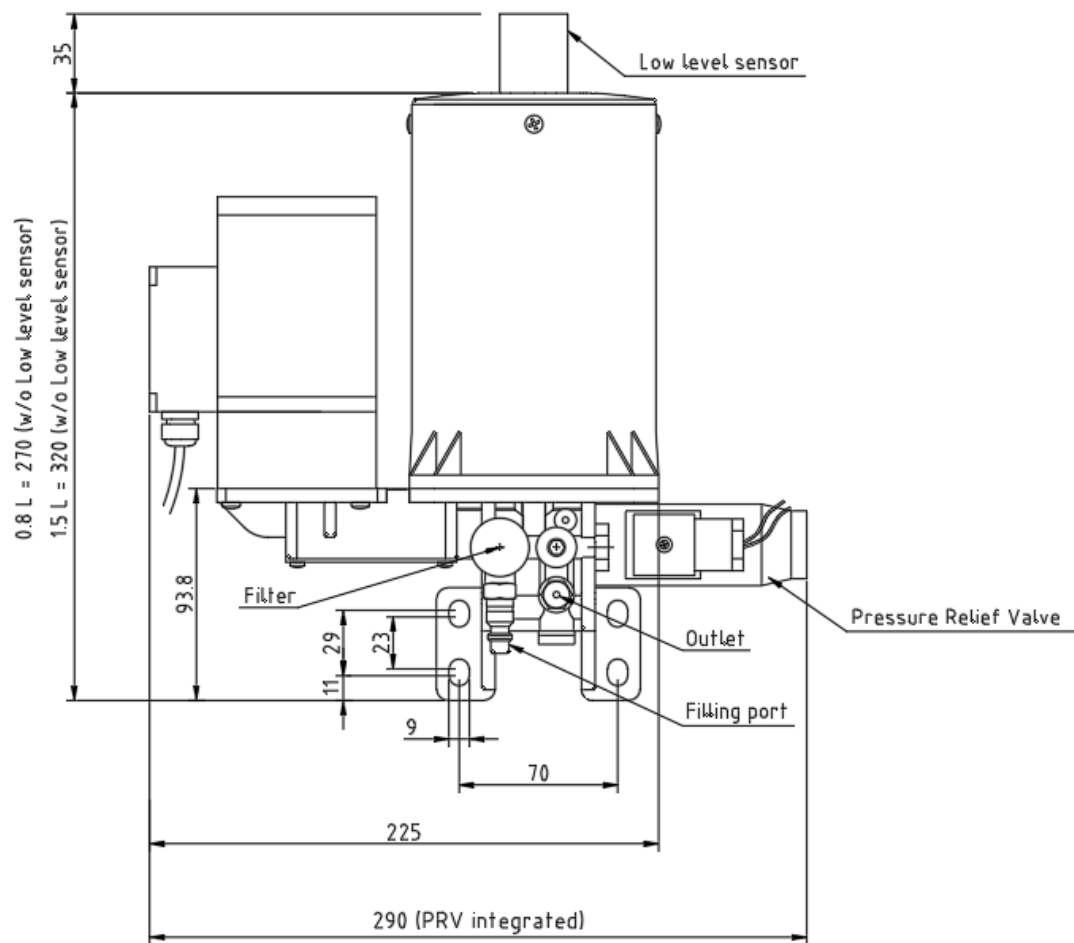
D24: DC 24V

A11: AC 110V / 60Hz

A23: AC 230V / 50Hz

1) Pressure relief valve is mandatory if the pump unit will be using single-line lubrication system.

## ■ FGP Fluid Grease Lubrication Pump Unit Dimension



## ■ SGB Fluid Grease Injector



### ✧ Product Description

Model SGB fluid grease metering injector is a pressure-boosted lubricator. It injects lubricant under system pressure and stores lubricant upon pressure relief.

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 (cm<sup>3</sup>/cycle)</i> | 0.03, 0.06, 0.1, 0.2, 0.3, 0.4, 0.5 |
| <i>Action Guarantee Pressure</i>                 | 20 ~ 50 bar                         |
| <i>Lubricant</i>                                 | Grease: NLGI 00 ~ 000               |
| <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.

## ■ SGB Fluid Grease Injector Part Number

**SGB - 4 - 1045**

**SGB series injector** \_\_\_\_\_

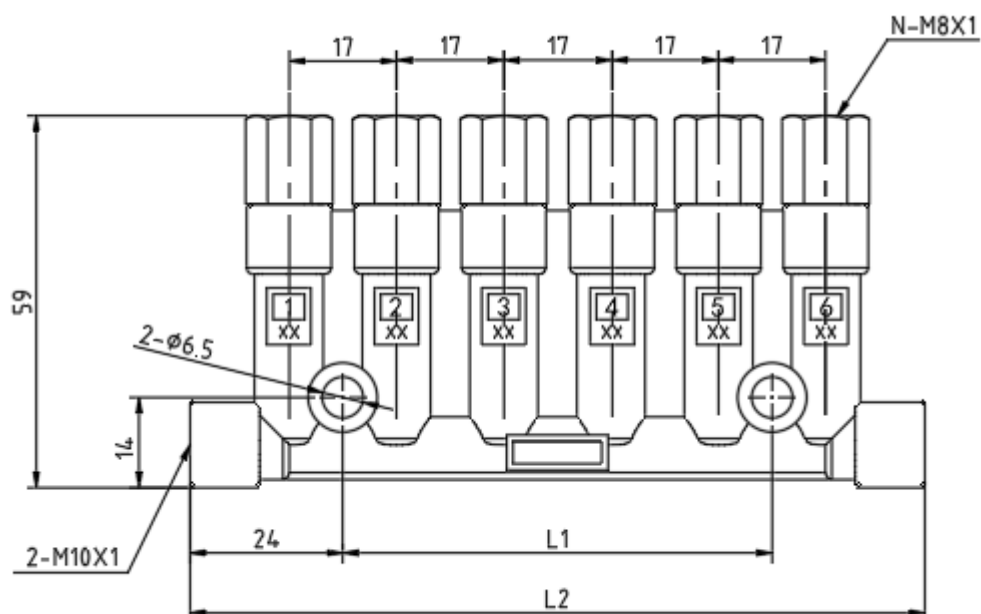
**Quantity of outlet** \_\_\_\_\_

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

**Metering unit** \_\_\_\_\_

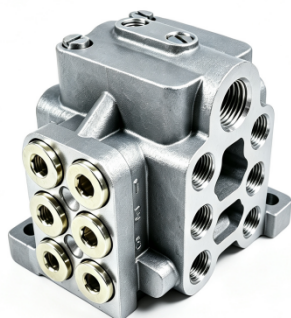
0: No metering unit    4: 0.4 cm<sup>3</sup>/cycle  
 1: 0.1 cm<sup>3</sup>/cycle    5: 0.5 cm<sup>3</sup>/cycle  
 2: 0.2 cm<sup>3</sup>/cycle    A: 0.03 cm<sup>3</sup>/cycle  
 3: 0.3 cm<sup>3</sup>/cycle    B: 0.06 cm<sup>3</sup>/cycle

## ■ SGB Fluid Grease Injector Dimension



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

## ■ PFU Progressive Divider



### ✧ Product Description

The compact PFU series progressive divider feeds fixed grease volumes to lubrication points sequentially.

Each plunger unit discharges metered grease by progressive hydraulic force, requiring constant supply pressure. Blocked outlets cause malfunction and divider damage.

Each divider block has a min. of 4 and a max. of 12 outlets, allowing users to choose a divider with an appropriate number of outlets based on actual lubrication needs.

Suitable for small machine tools, construction, textile and printing-packaging machinery, and as sub-dividers in large progressive lubrication systems.

### ✧ Technical Data

|                              |                             |
|------------------------------|-----------------------------|
| <i>Displacement volume</i>   | 0.3 cm <sup>3</sup> /stroke |
| <i>Max. Working Pressure</i> | 150 bar                     |
| <i>Inlet Thread</i>          | G 1/4                       |
| <i>Outlet Thread</i>         | G 1/8                       |
| <i>Lubricant</i>             | NLGI 000 ~ 1                |

## ■ PFU Progressive Divider Part Number

**PFU - 6 - E**

**PFU series progressive divider**

**Quantity of outlet**

4: 4 outlets

6: 6 outlets

8: 8 outlets

10: 10 outlets

12: 12 outlets

**Blockage monitor**

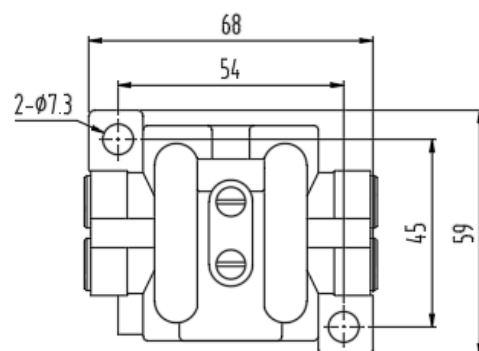
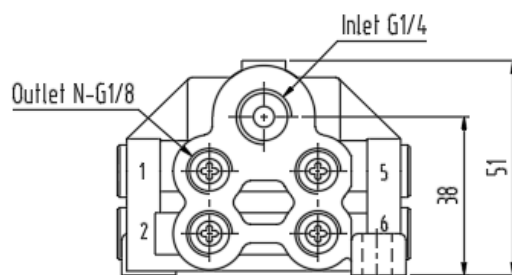
Blank: No

M: Visual indicator

E: Piston detector, DC 24V

## ■ PFU Progressive Divider Dimension

| Model     | Number of Outlet |
|-----------|------------------|
| PFU-4-... | 4                |
| PFU-6-... | 6                |
| PFU-8-... | 8                |



| Model      | Number of Outlet |
|------------|------------------|
| PFU-10-... | 10               |
| PFU-12-... | 12               |

