

# SureFire II Lubricator

## Automatic, Oil & Fluid Grease, Three Phase



### General

The SureFire II Lubricator is an automatic, robust and durable pump. Its compact size is designed to fit your space requirements and lubrication demands. The SureFire II Lubricator is a self-contained electric motor-driven gear pump that can adapt to a broad range of production machinery. The PDI version can handle oil or fluid grease for single injectors or injector groups serving up to 100 lubrication points. The SLR version uses oil to supply resistance fittings or resistance fittings groups serving up to 100 lubrication points. The SureFire pump's versatility also allows it to perform with other lubrication system types and multiple applications.

### PDI Operation

The SureFire II PDI Lubricator has a motor-driven pump that pulls lubricant in from the reservoir and delivers pressurized lubricant to the distribution network through the outlet(s) in the top plate. Pressurizing the distribution network forces all of the positive displacement injectors (PDIs) in the system to fire, discharging the lubricant that was stored in each of their discharge chambers during the last pump cycle.

Once all of the PDIs discharge, the pressure in the network continues to rise until the limit in the pressure switch is reached. Once this limit is reached, a pressure switch could be used to stop the motor, and momentary pressure in the distribution network becomes greater than the pressure at the outlet side of the gear pump. This pressure differential actuates a quick dump valve which relieves the distribution line pressure back into the reservoir.

### SLR Operation

The SureFire SLR Lubricator has a motor-driven pump that pulls oil in from the reservoir and delivers pressurized oil to the distribution network through the outlet(s) in the top plate. Pressurizing the distribution network forces all of the resistance fittings in the system to discharge the oil in proportioned quantities to the friction points. The resistance fittings continue to flow and the pump builds pressure until pressure relief valve setting is reached (130 psi/9 bar). Once the motor is shut off, pressure in the distribution network returns to near 0 psi. This actuates a quick dump valve which relieves the line pressure back into the reservoir.

### Features

- + PDI version handles oil and fluid greases
- + SLR version handles oil
- + Low level switch for fail safe operation
- + Oil outlet connections on either side for easy installations
- + Plastic and metal reservoirs available
- + Large capacity fill cap with built-in strainer minimizes contamination
- + Flow or Pressure Bypass available (Pressure Bypass Standard on SLR)
- + All versions are CE approved



3 Liter Three Phase Standard

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Morrisville, NC 27560

## Technical Data

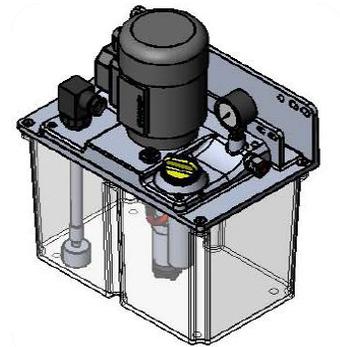
<b>Output Volume - Three Phase <sup>1</sup></b>	500cc/min @ 60 Hz (416cc/min @ 50Hz) 250cc/min @ 60 Hz (167cc/min @ 50Hz)
<b>Output Pressure (max.)</b>	<b>PDI</b> 450 psi (31 bar)
	<b>SLR</b> 130 psi (9 bar)
	<b>PDI/SLR</b> 270 psi (19 bar)
<b>Lubricant Viscosity</b>	<b>Standard Oil version:</b> 20 to 1500 cSt @ operating temperature
<b>Soft Greases <sup>2</sup></b>	NLGI grade 000 - NLGI grade 00 (40,000 cSt max)
<b>Reservoir Fill Screen (oil only)</b>	40 mesh, removable
<b>Reservoir Volume</b>	3 liter
	6 liter
	12 liter
	30 liter
<b>Reservoir Material</b>	Luran (Blue Tint) for 3, 6 liter
	Steel for 3, 6, 12 and 30 liter
<b>Motor Voltage</b>	230/480 VAC 50/60 Hz Three Phase
<b>Motor Power Requirements</b>	0.5 amps
<b>Operating Temperature Range</b>	40°F through 105°F (5°C through 40°C)
<b>Output Connection (x2, one each side)</b>	G 1/4 BSPP
<b>Return Line Connection <sup>3</sup></b> <b>or</b> <b>Flow Regulation <sup>4</sup></b>	G 3/8 BSPP Flow or Pressure Bypass
<b>Single (main) Feed Line</b>	6mm O.D. minimum recommended

<sup>1</sup> PDI/SLR: No pressure switch fitted, external end-of-line pressure switch available (For PDI part #26772-2; 225 psi/15.5 bar. For SLR part # 27444-1 & Din Connector MCC2510A).

<sup>2</sup> PDI version only. Please contact a Bijur Delimon representative for applications using soft grease.

<sup>3</sup> There is no return port if a flow or pressure bypass is selected in smart part number (3L & 6L, see page 3).

<sup>4</sup> Pressure bypass is standard Regulation option for SLR 3-Phase.



6 Liter Three Phase Standard

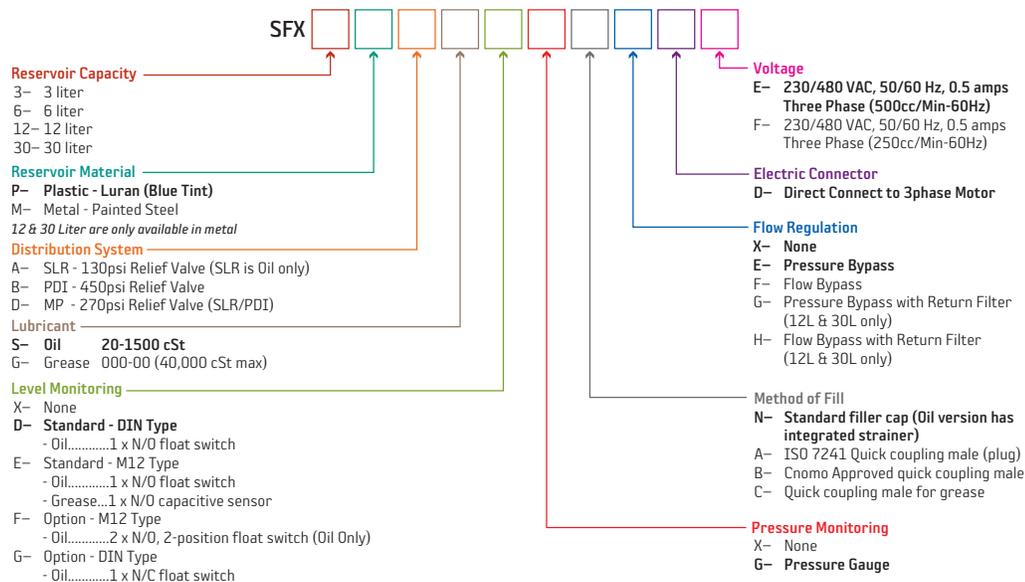
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## How to Order



**NOTE:**

Items in **BOLD** are standard options. Other options may have longer lead time.

The SureFire II Lubricator features a smart part number ordering system, where you can tailor the pump to meet your needs. First, choose the reservoir capacity and material, distribution system, various pump options, and voltage. Then, put the numbers into the corresponding squares in the easy-to-use grid. You now have the customized part number.

Example: To order a 3 liter reservoir with a volumetric/PDI distribution system, standard options, Three phase motor, you would use Part #SFX3PBSDGNXDE.

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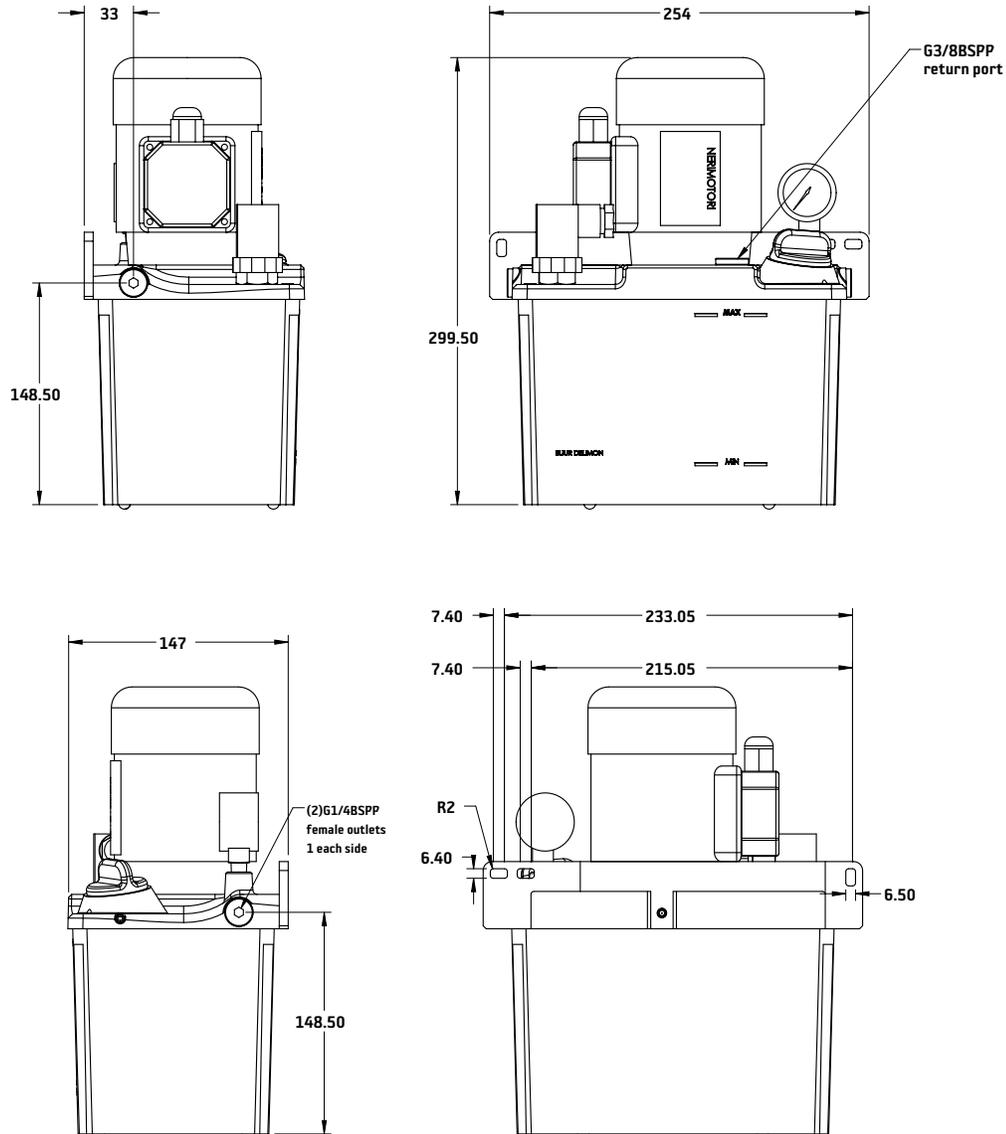
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## Dimensional Schematics

### SureFire II 3 Liter

Measurements shown in millimeters.



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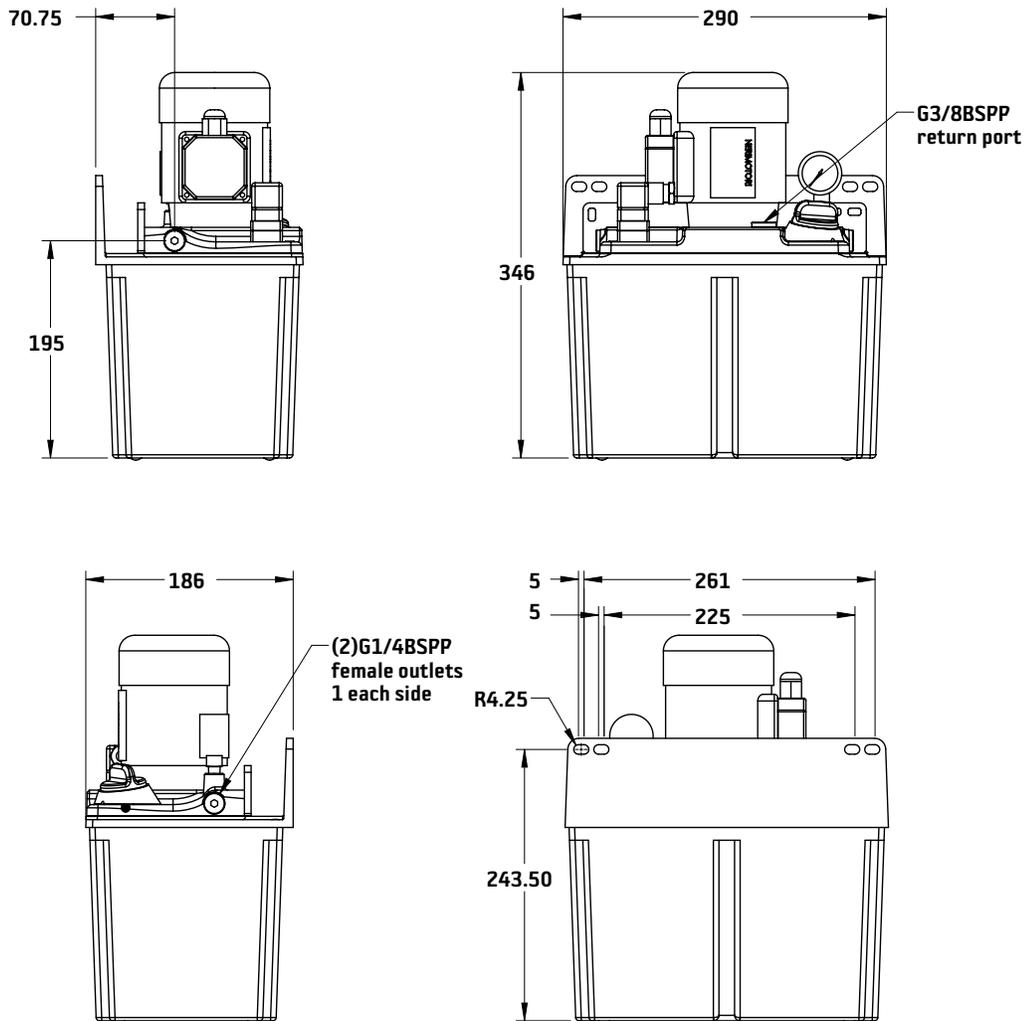
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## Dimensional Schematics

### SureFire II 6 Liter

Measurements shown in millimeters.



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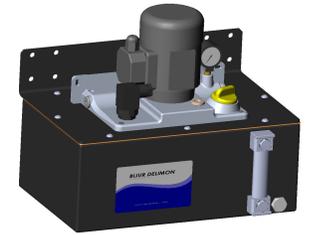
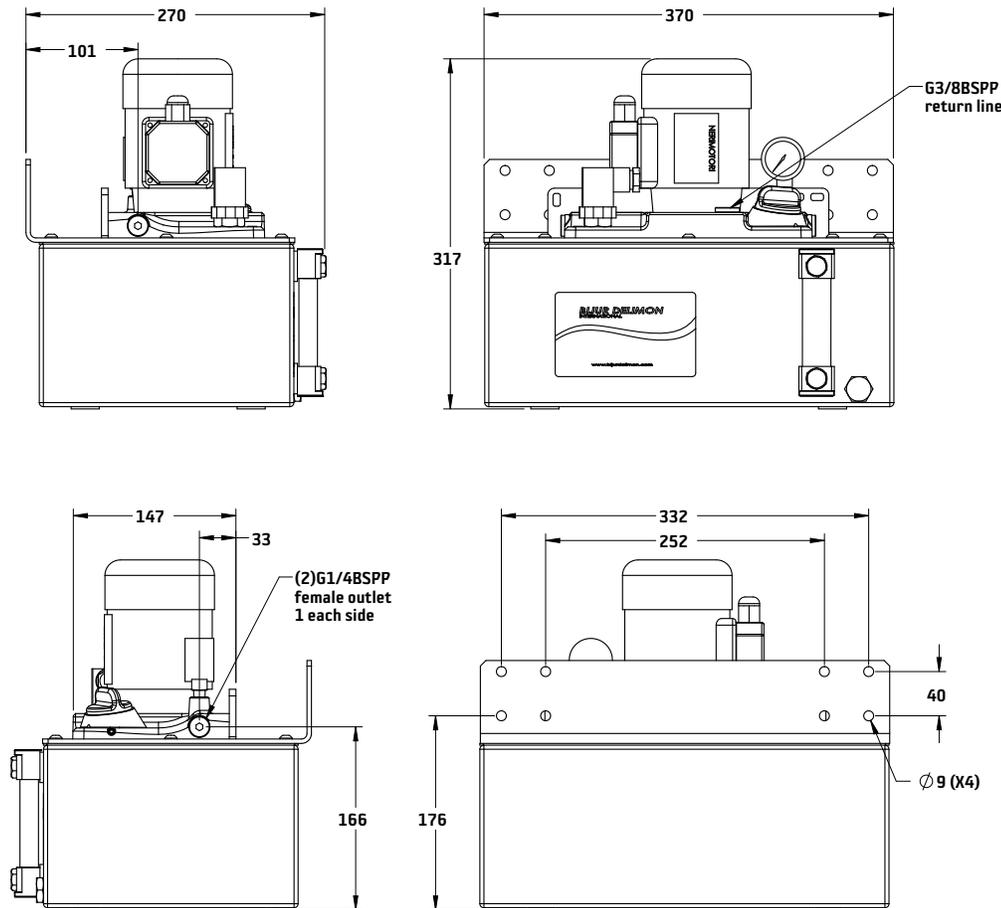
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## Dimensional Schematics

### SureFire II 12 Liter

Measurements shown in millimeters.



12 Liter Three Phase

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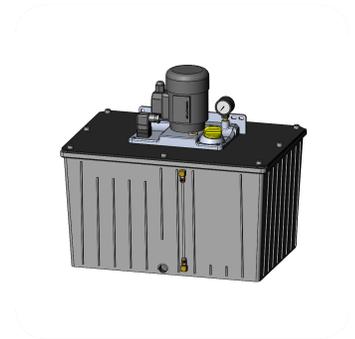
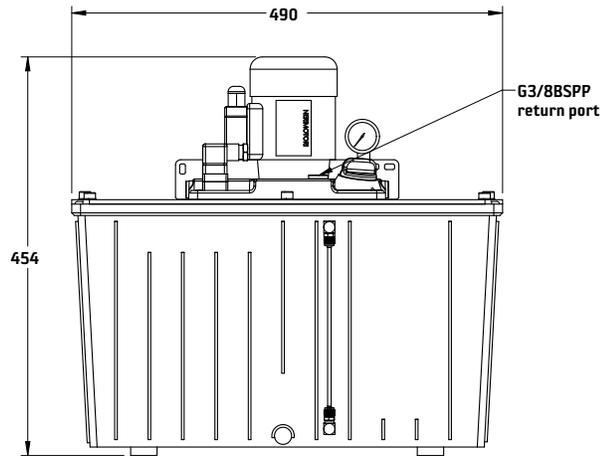
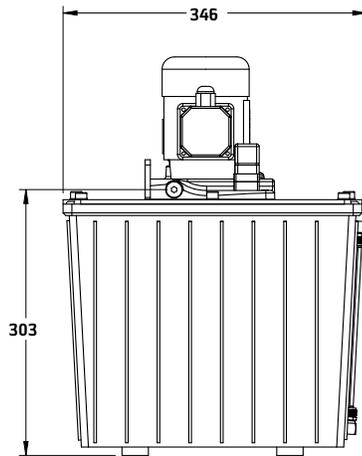
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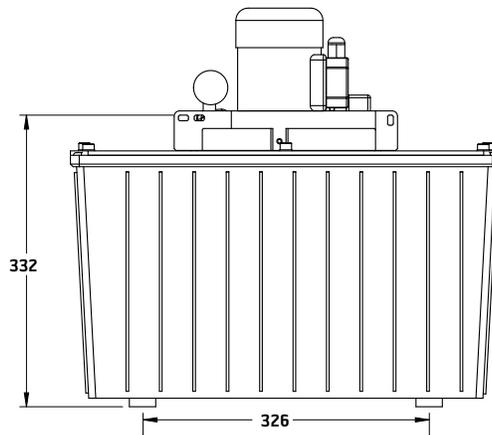
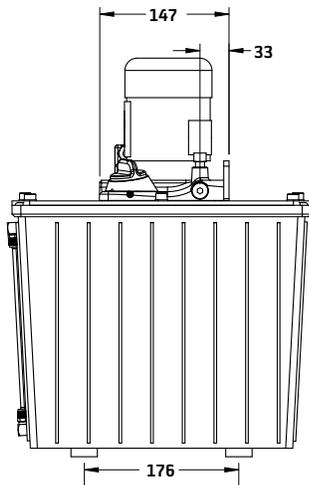
## Dimensional Schematics

### SureFire II 30 Liter

Measurements shown in millimeters.



30 Liter Three Phase



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