

# Application Success

## Food & Beverage



### Application Overview

Beverage bottling plants, with their various equipment and machines, have many lubrication points which require food grade lubricants. Machines found in a beverage bottling plant include: fill machines, cappers, labelers, coders (these put the FDA required lot code on the container), case packers, shrink wrap packagers and conveyors.

### Why Automatic Lubrication?

Like most manufacturing plants this beverage bottling plant is trying to lower production costs by reducing manpower, which means fewer people to do manual lubrication. However cost avoidance by reducing bearing failures is equally important. Automatic centralized lubrication systems address both of these issues.

### BDI Products

- + SureMatic Lubricator
- + FL Series Injectors
- + SS2200 Controller

### Advantages

- + Wide range of system types to accommodate unique machine arrangements
- + Low-cost pump and controls options
- + Stainless steel injectors available
- + Local distribution and support
- + Pumps and distribution valves compatible with food grade lubricants

*Please contact factory for additional information on this or any other application.*

## Products Utilized for Beverage Bottling Plants

### *SureMatic Lubricator*

+ **Description:** 3.5 liter (7 lb) reservoir, grease, with low level switch

The SureMatic Lubricator is a piston discharge pump actuated by air and controlled by an electric solenoid valve (optional). The lubricator handles most industrial greases suitable for being transferred under pressure through small bore tubing. A wide selection of reservoir capacities is available to handle any size machinery.



### *FL Series Injectors*

+ **Description:** FL-32 Injector, stainless steel, grease

FL-32 Injectors are positive displacement grease dispensing valves. Single and manifold injectors are adjustable from 0.016 to 0.131 cc (0.001 to 0.008 cu. in.) discharge per cycle. Each manifold includes two mounting clips and screws (1/4" - 20 thread x 1/2" long hex head).



### *SS2200 Controller*

+ **Description:** 110 VAC, NEMA 4X polycarbonate enclosure

The SS2200 Controller is a microprocessor-based programmable controller specifically designed to control single line and dual line centralized lubricating systems. The remote controller will operate on time or machine cycles and will control electric or motor-driven lubricators. The controller is housed in a NEMA 4X polycarbonate enclosure with a clear front cover. Precise LED indicators clearly display idle, lube or fault modes, and a three-digit numerical display used during both programming and lubrication system operation.



## Typical System Layout

The system consists of an air operated grease pump, controller, pressure switch (to monitor grease supply pressure), air solenoid valve for pump, FRL (supplied to provide clean, lubricated air to grease pump) and a grease strainer (to keep contaminants out of bearings). All of these are mounted, plumbed and wired in a hinged stainless steel enclosure.

## Background

Bearings were being lost due to improper lubrication. And there was also lost production time to manually lubricate them. Both of these issues were solved with this value added package supplied by our local Bijur Delimon distributor. All the customer had to do was bring air and 110 VAC to the pump enclosure.

Refer to the following datasheets:

- + Datasheet #35484:  
*SureMatic Lubricator (PDI)*
- + Datasheet #27314:  
*FL-32 Injector*
- + Datasheet #24735:  
*SS2200 Remote Controller (AC)*

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