

# Application Success

## Waste Water Treatment Plant



### BDI Products

- + MultiPort Lubricator
- + SS2200 Controller
- + M2500 Series Divider Valve

### Application Overview

Waste water treatment plants, municipalities. Johnston-Sulzer water/sewerage pumps, transfer street water held in containment area then pumped back into stream, lake or ocean. The water fills containment area during storms, the high water mark activates 1, 2, 3, 4 pumps as required during heavy rains to prevent street flooding and overflow into sewerage plant.

### Why Automatic Lubrication?

Remote pumping stations are not attended. The maintenance person may not be on site and must travel to location to grease on a regular basis. The pumps are automatic, monitored by remote PC through internet connection. The bearings require regular greasing, to keep seals from failing. Missing several grease cycles can cause pre mature bearing and pump failure. As with all lubrication, small amounts of grease on a regular basis keep debris and water from damaging seals and ultimately causing the bearing to fail. When the pump fails, then water is not able to be cleared from the city sewer system.

### Advantages

- + Consistent volume of grease.
- + Small amounts of grease on a regular basis, extends pump/motor life.
- + Monitored for low level, and grease cycles.
- + Lubrication fault: signal is communicated by SS2000 to the net, monitored by central HQ.
- + Buying bulk grease, 5 gallon (35 lb pale), is lower cost then 14 oz tubes.

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

## Products Utilized for Waste Water Treatment Plant

### MultiPort Lubricator

- + **Description:** 24 VDC, 4 liter (8 lb) reservoir, grease, with low level switch

The MultiPort Lubricator is a rugged, motor-driven, electric lubricator, equipped with fixed output pumping elements to discharge grease or oil over a wide operating range. Low level switches are standard on this compact unit. Up to three independent feed lines can be used with the MultiPort Lubricator. A selection of timers and controller/monitors are available to program MultiPort Lubricators.

### SS2200 Controller

- + **Description:** 115 VAC (50/60 Hz)

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.

### M2500 Series Divider Valve

- + **Description:** Master block, 4 outlet divider valve, 1/8-27 NPSF

The M2500 Series Divider Valve Manifolds are the principal components of a progressive lubricating system. Modular construction makes these blocks easy to install, modify and maintain, without removing any tubing.

### FD Series Divider Valve

- + **Description:** 4 outlet divider valve

FD Series Divider Valves are designed for use with series progressive oil and grease lubrication systems. They are of two piece, steel construction with viton O-ring seals. FD valves will serve 2, 3, 4 or 6 points of lubrication. The 2, 3 and 4 point divider valves require 1.3cc (0.08 cu. in.) to complete one full cycle.



## Typical System Layout

MultiPort Lubricator with SS2200 Controller which supplies M2500 Series Divider Valve (master block), in turn supplying grease to FD Series Divider Valve (sub-divider) on each water pump. The system lubricates water pump bearings below the deck and the motor. Water pumps are utilized to incrementally ramp up or down waste water movement. All pumps are greased on same schedule, not ideal, but lower cost with one pump to maintain.

## Background

The customer was using a Farval DA4101A hand pump and dualine valves. This worked fine- but no one pulled the handle, resulting in several bearing failures. By going to the automated lube system, these failures have been eliminated.

Refer to the following documents:

- + Datasheet #35505:  
MultiPort Lubricator
- + Datasheet #24735:  
SS2200 Controller (AC)
- + Brochure #SL2800:  
Singline Components
- + Datasheet #32573:  
FD Series Divider Valve

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