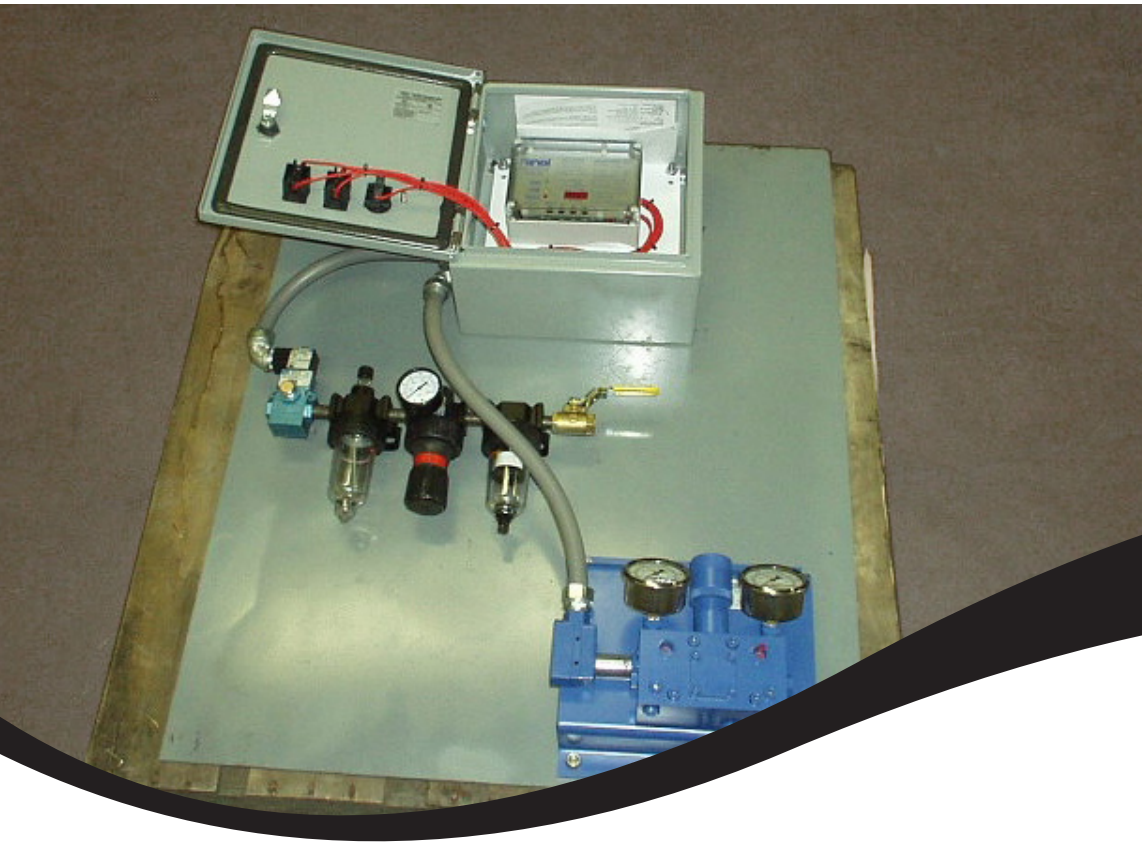


Application Success Story

Steel



BDI Products

- + DP55 Pump
- + DD50 Divider Valve
- + DR460 Reversing Valve
- + SS2200 Controller

Application Overview

Temper mill. Applying grease on bearings used in heat treating of steel plate.

Why Automatic Lubrication?

It is too difficult to lubricate by hand, the atmosphere is hot and there is a lot of water spray. This application is a cooling bed for plate that is coming out of a reheat furnace. The plate is stopped on the cooling bed, a hood with water jets is lowered over the plate and cooling water is applied to the plate to temper or harden it.

Advantages

- + Decrease the down time of the machine.
- + It decreases the risk of employees getting hurt compared to manually lubricating machine.
- + It protects the mill & bearings from damage due to lack of lubrication.
- + Decreases the power consumption and increases machine performance.
- + Decreases the amount of grease used by controlling lubrication cycle.

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

Products Utilized for Temper Mills

DP55 Pump

+ **Description:** 650 cc (40 cu. in.) Max. Delivery, 1/4" NPT Air Inlet, 3/8" Lube Outlet

The DP55 Pump is a compressed air-operated reciprocating piston pump designed for high pressure greasing. DP55 Pumps are compatible with all types of mineral and synthetic greases (up to NLGI grade 2 viscosity).

DD Divider Valves

+ **Description:** Basic valve with indicator stem

Dualine DD Valves are completely hydraulic in operation. They will deliver either oil or grease, are fully and individually adjustable in regard to discharge quantity and are equipped with operational indicators. Each DD valve serves two bearings. However, by a simple method of cross-porting, it will serve one.

DR4 Reversing Valve

+ **Description:** Valve with limit switch, pressure gauges, mounting brackets and line strainer.

These reversing valves are activated by system pressure and are adjustable between 500 and 3500 psi. They control non-return and return systems using CS2000, DC36 and DC42 Central Stations. They are also used with air barrel pumps for spray and medium and large Dualine systems.

SS2200 Controller

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

The SS2200 Controller is a microprocessor-based programmable controller specifically designed to control single line and dualine 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 lube system operation.



Typical System Layout

The DP55 Pump and DD50 Divider Valves were supplied loose. The DR460 Reversing Valve, SS2200 Controller & F985 FRL were all mounted and wired to a plate to reduce install time for the mill. There are 80 lubrication points.

The Bijur Delimon International distributor supplied the Farval barrel pump and mounted the reversing valve, FRL and SS2200 Controller on a panel which the customer located near the grease tote. The SS2200 was mounted in a NEMA 12 box enclosure to protect it, mounting everything on one common base plate made installation easy for customer. Using a grease tote with 4000 lb capacity also saved the customer a lot of money when compared to purchasing 55 gallon drums of grease.

Background

The customer got tired of refilling the existing grease reservoir by hand. Also management changed from a Moly grease to a synthetic grease which the old system had a hard time pumping. The BDI distributor removed the old electric grease pump and replaced it with a pneumatic barrel pump in a 4000 lb grease tote.

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

Refer to the following datasheets:

- + Brochure #DL29:
Farval Dualine Systems
- + Datasheet #35993:
DP55 Pump
- + Datasheet #35513:
DD & DM Valves
- + Datasheet #24735:
SS2200 Controller (AC)

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