

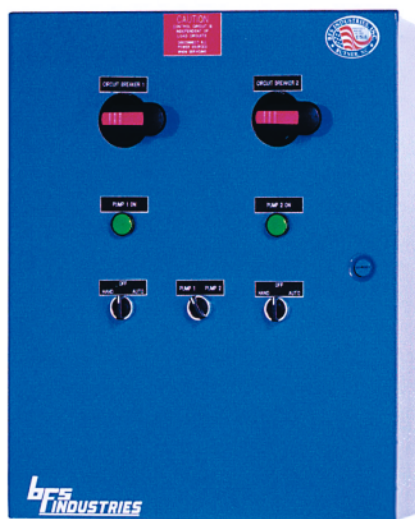
fuel-pac

by BFS Industries Inc.

Type F



Typical Duplex #2 Fuel Oil System



Typical Motor Control Center



**Typical Duplex #6 Fuel Oil
Pump and Heater System**

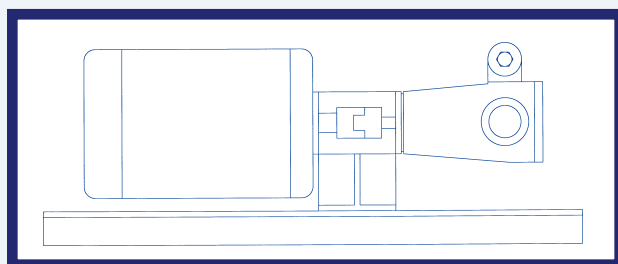
SERVING THE NEEDS OF FUEL OIL USERS SINCE 1946

Established in 1946, BFS Industries quickly became a leader in the design and manufacture of fuel oil handling equipment. Through the years the industry has faced many challenges such as environmental considerations, government regulations, shortages and escalating fuel costs necessitating innovative engineering changes. **BFS has proven it is up to the task.** Today, we can assume the responsibility for the entire fuel oil system with confidence. Our engineers are constantly searching for ways to further improve system reliability and safety. Their goal is to design systems that satisfy the most stringent conditions using optimum selections of pumps, controls, valves, tanks and a user friendly layout. The BFS *Controls Group* provides in-house electrical engineering and assembly including not only motor controls but any level of monitoring, alarm functions and automation desired. The end result is a complete fully integrated “state of the art” system.

Standard Configurations

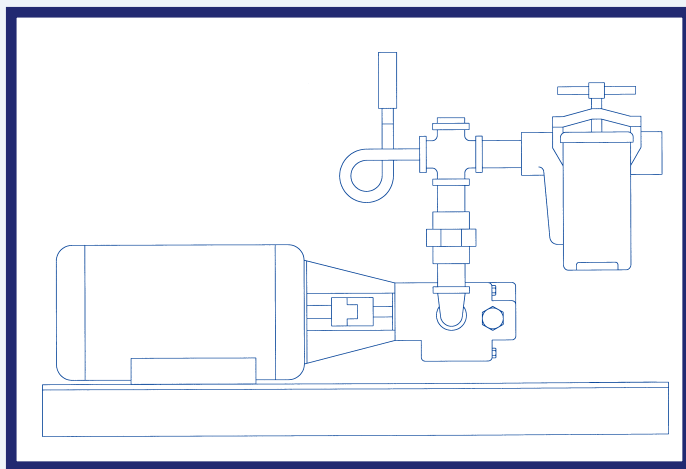
Basic:

The simplest package consisting of one pump and motor mounted on a base, relief valve and loose pressure and compound gauges.



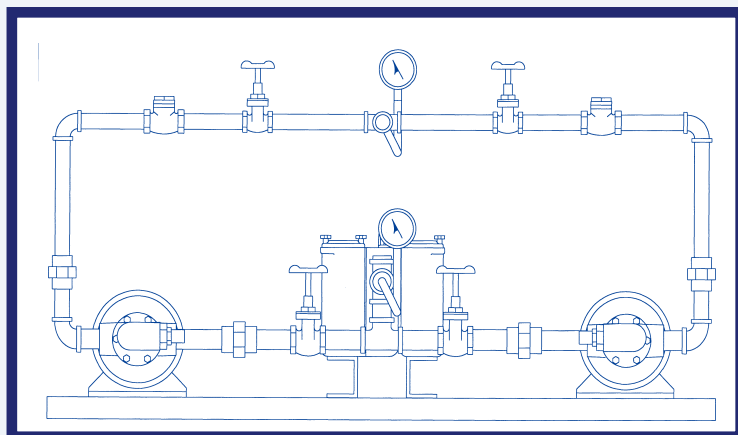
Simplex:

A single base mounted pump and motor, strainer, relief valve, pressure and compound gauges.



Duplex:

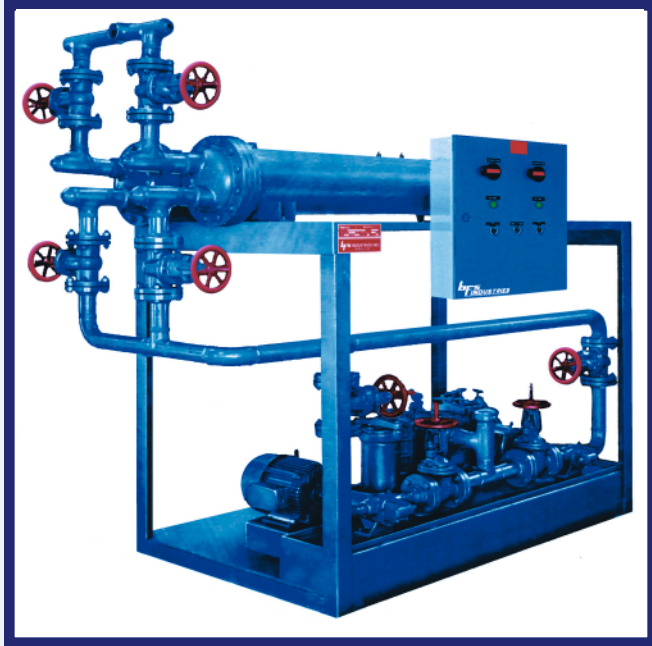
Two base mounted pumps and motors, duplex strainer, relief valves, pump isolating valves, discharge check valves, pressure and compound gauges.



The above illustrations are representative of systems in their most basic forms. ALL are available with an endless combination of features including additional pumps.

Typical Light Oil Transfer System

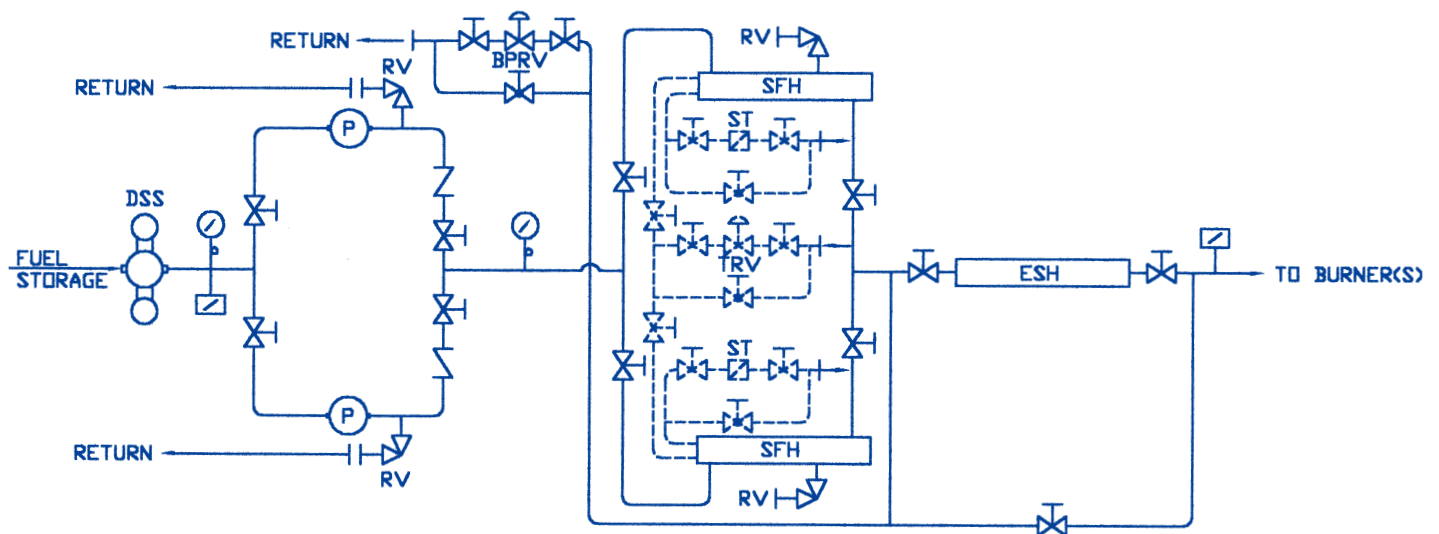
- Heavy duty Rotary Pumps with **VITON** seals
- Flexible Coupled-**permanently aligned**
- Duplex strainer - bubble tight shut-off under **vacuum** conditions
- Containment basin
- Suction isolating valves
- Discharge isolating and check valves
- Relief valves
- Liquid filled pressure and compound gauges
- Over-pressure switch
- Motor control center



Typical Heavy Oil System

- Heavy duty screw type pumps with **VITON** seals
- One electric motor drive
- One **steam turbine drive**
- Steam/oil heat exchangers
- Duplex strainer - bubble tight shut-off under **vacuum** conditions
- Suction isolation valves
- Discharge isolating and check valves
- Relief valves
- All **welded** piping
- Motor control center

TYPICAL DUPLEX HEAVY OIL FLOW DIAGRAM



Legend

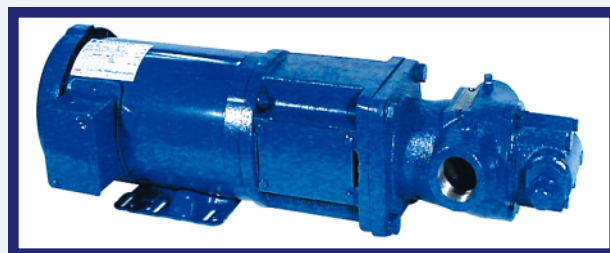
DSS Duplex suction strainer
BPRV Back pressure reg. valve
ESH Electric start-up heater
 ----- Steam/condensate lines

P Pump
SFH Steam/fuel heater
TRV Temp. reg. valve

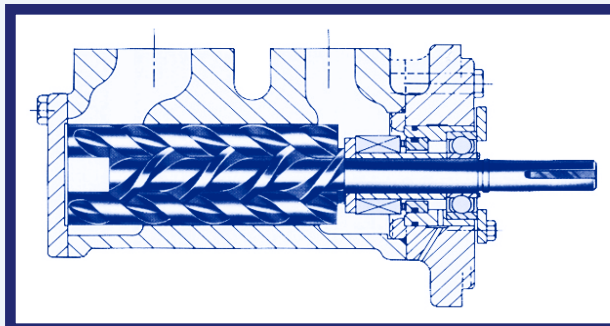
RV Relief valve
ST Steam trap
 — Oil lines

VALUE ADDED FEATURES:

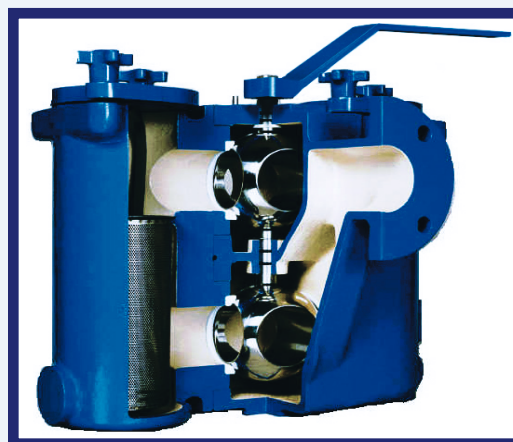
- Heavy duty rotary type pumps (diesel/#2/#4 oil)
- Flexible coupled - **permanently aligned**
- **VITON** mechanical seals



- Heavy duty screw type pumps (#6 oil)
- Flexible coupled
- **VITON** mechanical seals



- Heavy duty duplex strainers
- **Ball** valve for bubble tight shut-off even under **vacuum**



- **Diesel or Stand-by Fuel? See Bulletin BF2D**
- Fuel transfer systems
- Day tanks
- Rupture basins
- Micron level fuel filtering
- De-watering
- Sludge removal
- Automatic fuel additives
- Freeze protection
- Custom control panels for all controls, monitoring & alarm functions



bfs INDUSTRIES INC.

200 Industrial Dr.
Butner, NC 27509
www.bfsindustries.com
Copyright© 2001 BFS INDUSTRIES INC.

Distributed by: