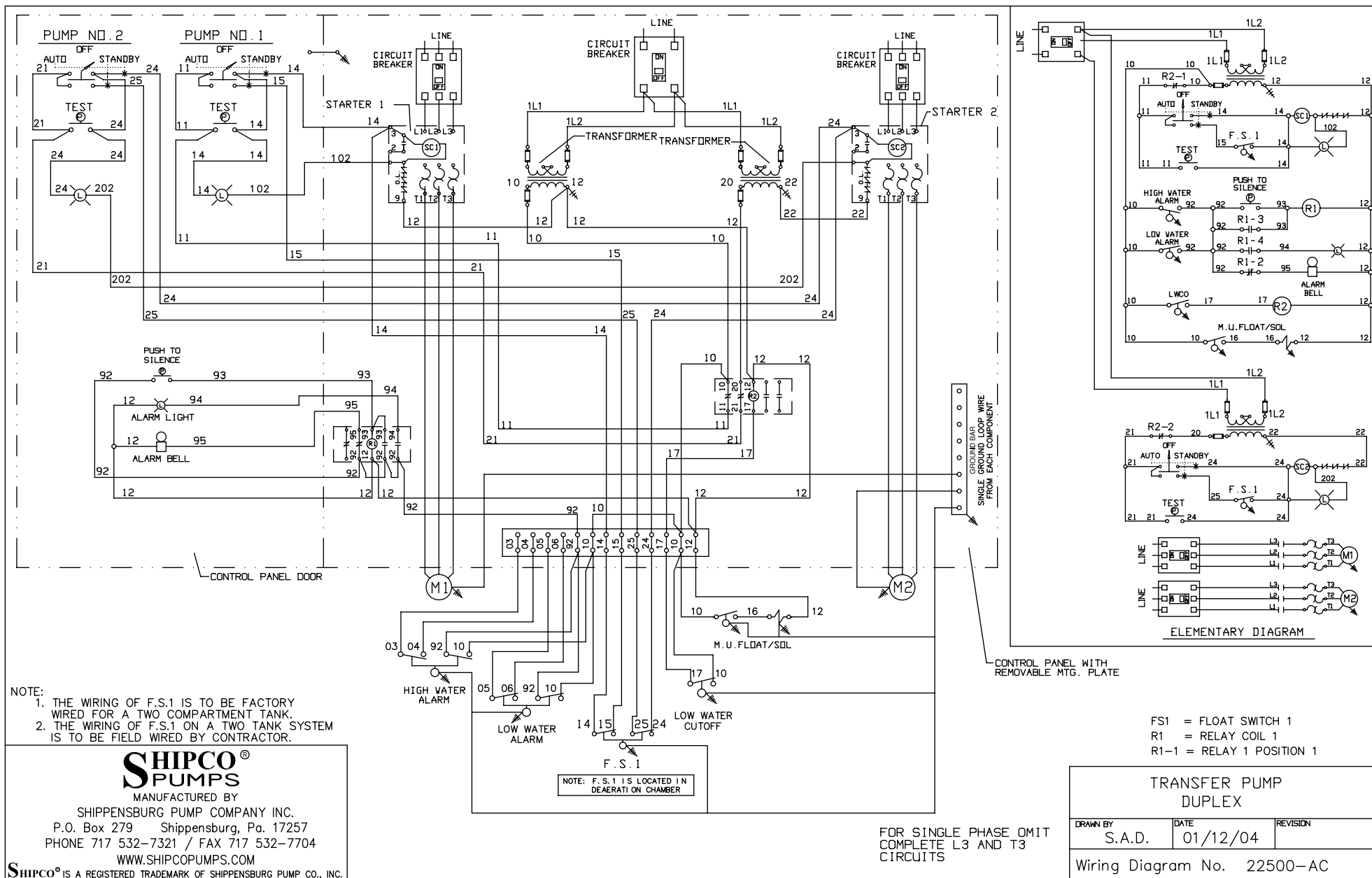
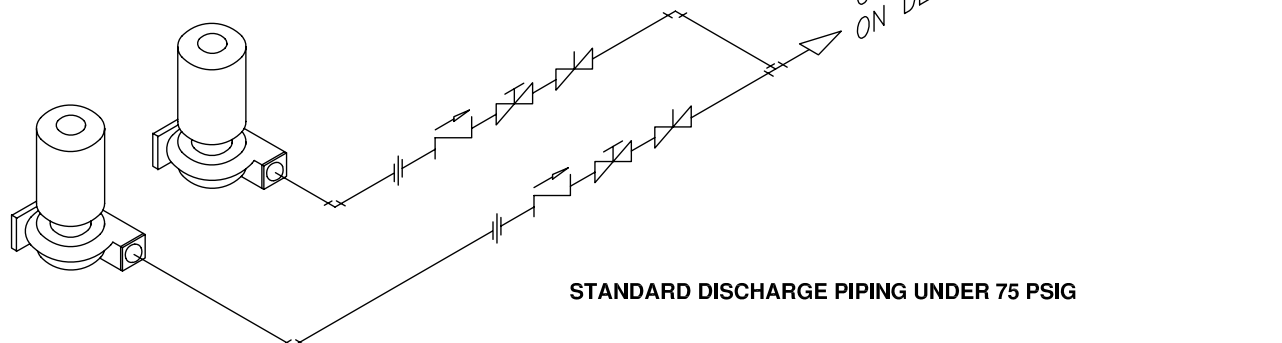
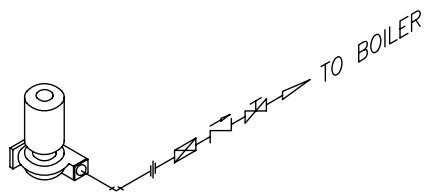




-  GATE VALVE
 CHECK VALVE
 STEAM, PLUG COCK, THROTTLING OR BALANCING VALVE
 UNION
 AUTOMATIC FLOW VALVE
 ORIFICED BYPASS NIPPLE
 CONCENTRIC REDUCER

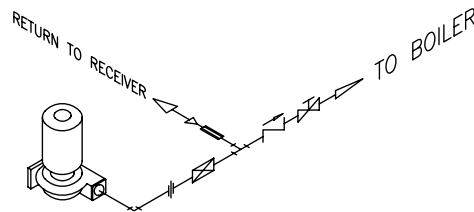


DISCHARGE PIPING W/ AUTOMATIC FLOW VALVE



If centrifugal feed pump is operating at 75 PSIG or greater a Automatic Flow Valve typically is utilized.

DISCHARGE PIPING W/ AUTOMATIC FLOW VALVE & BYPASS



If continuous running centrifugal feed pump on Deaerator and horsepower of motor is 7 1/2 Hp and larger a Bypass line with Orifice must be utilized.

SURGE TANK WITH 2 PUMPS

SUGGESTED CONTROL SPECIFICATIONS (To be added to Surge Unit Specification)

The unit manufacturer shall furnish, mount on the pump unit, and wire a NEMA 2 control cabinet with piano hinged door, enclosing the following:

- 2 Combination magnetic starters (having 3 overload relays) with circuit breakers and cover interlocks.
- 2 "On-Off-Standby Continuous" selector switches.
- 2 Pump running pilot lights.
- 1 Control Circuit disconnect switch with cover interlock.
- 1 Numbered terminal block.
- 1 Fused control circuit transformer when the motor voltage exceeds 130 volts.
- 2 Momentary contact "test" push buttons.

Control cabinet shall contain U.L. listed or recognized components. Control cabinet shall be listed and labeled by Underwriter's Laboratory.

Control components shall be provided by the unit manufacturer for operation as follows: the pumps shall run continuously based on the manual selection of pump. The standby pump shall be activated by a level switch of the deaerator unit which when level drops in deaerator switch will turn on standby pump.

The installing contractor, in addition to the pump control(s), shall provide and install all low water burner cut-off switches, all low water alarms and all associated circuits in accordance with all local codes.

The unit shall be factory tested as a complete unit and a certified test report of pump characteristics produced, which shall be submitted prior to shipment. The unit manufacturer shall furnish complete elementary and connection wiring diagrams, piping diagrams, and installation and operation instructions.

Manufacturer shall be Shippensburg Pump Company, Inc., Shippensburg, PA

Rev. 1/06

DRAWING FOR REFERENCE USE ONLY
REFER TO ORDER FORM TO CONFIRM
ITEMS SUPPLIED BY MANUFACTURER

SHIPCO®
PUMPS

MANUFACTURED BY
SHIPPENSBURG PUMP COMPANY INC.
P.O. Box 279 Shippensburg, Pa. 17257
PHONE 717 532-7321 / FAX 717 532-7704
WWW.SHIPCOPUMPS.COM

SHIPCO® IS A REGISTERED TRADEMARK OF SHIPPENSBURG PUMP CO., INC.

Ref: Boiler piping ASME Section 1 by others.
Suggested boiler feed piping to be installed in accordance with applicable Federal, State and Local codes.

CENTRIFUGAL PUMP
TWO PUMPS FEEDING ONE DEAERATOR
WITH AUTO STANDBY

DRAWN BY	DATE	REVISION
S.A.D.	6-7-04	

Piping Diagram No. 61D2P-SA