



(Previously Supplementary Information Note 7 – Rev 2/94)

Traditionally pressure (delivery) lines have been installed in such a way that it is not possible to drain the contents of the pipework back into the storage tank. Even where the pipework is laid with a backward fall it is still not possible to drain the line as can be seen from figure No 1 on the following page.

The submersible pump is purposely designed and constructed to hold product in the pressure line when not in operation.

Unlike a conventional suction system the importance of being able to drain the pipework has, for some unexplained reason, not been considered essential.

A system to facilitate pressure line drainage into the respective storage tank without the need for any disconnection(s) can be easily achieved by using a flexible stainless steel coupling to connect the submersible pump outlet with the pressure line manifold. In addition to feeding one or more pressure lines the manifold is also connected directly with the storage tank by a 33mm valve return pipe. The return (drain) pipe is carried down inside the tank to not less than 58mm from the bottom of the tank; ie extending below the bottom of the submersible pump. See figure No 2 on the following page.

NOTE: It is appreciated that such a return pipe is additional to the tank openings acknowledged by paragraph 48 of the current edition of HS(G)41.

Other than for drainage purposes the return valve must be maintained in the closed position for the system to function properly. The return pipe control valve should be indelibly and conspicuously labeled

“PRESSURE PIPE(S) DRAIN VALVE - KEEP CLOSED”.

A fixed system whereby any pipe work can be readily drained without spillage is clearly advantageous and such a system should be a prerequisite as approval to any future applications to install submersible pumps.

FIGURE 1
RECOMMENDED INSTALLATION DRAWING MODEL 550 SUBMERGED PUMP

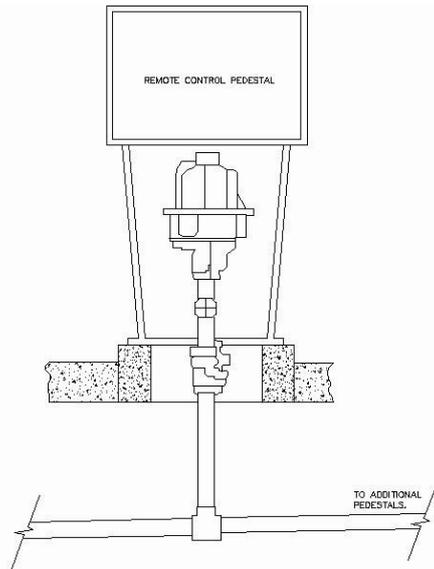
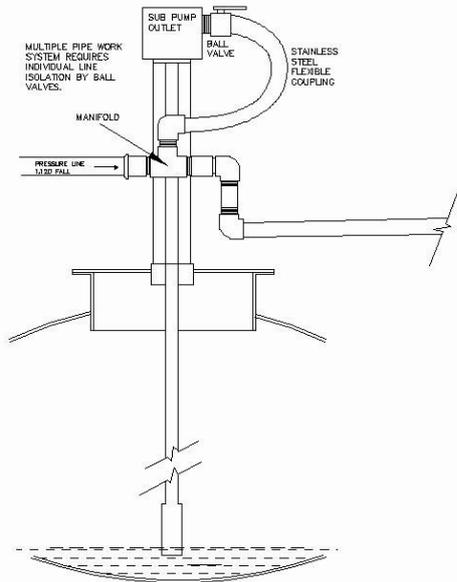


FIGURE 2
SUBMERGED PUMP SYSTEM WITH PRESSURE PIPE WORK DRAINAGE FACILITY

