

TRANSFER

Product Deliveries

Product deliveries to aboveground tanks are filled from pumping systems, located either on board the delivery transport or as a fixed component of the facility. The fill connection point should be located to provide clear visibility of the tanks during delivery. Transports should maintain a minimum distance of 25 feet from the storage tanks when off-loading product. There should also be spill containment, capable of holding the maximum quantity of product contained in the transfer hose.

Dispensing Islands

Dispensers should be mounted on raised islands with adequate collision protection provided. All dispensers shall be provided with either a fire/impact valve or a pressure regulating valve with shear capabilities to prevent product spillage, should a dispenser be separated from its foundation by a collision.

When a dispenser is separated remotely from the tank a normally-closed, an explosion-proof solenoid valve shall be installed. It is designed to open and close with the operation of the pump motor. See figures 4 and 5 for system installation. Dispensers/suction pumps mounted directly to the top of a tank are not required to install a solenoid valve (see figure 6) but these types of installations are not permitted for retail sale of fuels. All dispenser discharge hoses shall be quipped with an emergency breakaway device designed to retain liquid on both sides of the breakaway point.

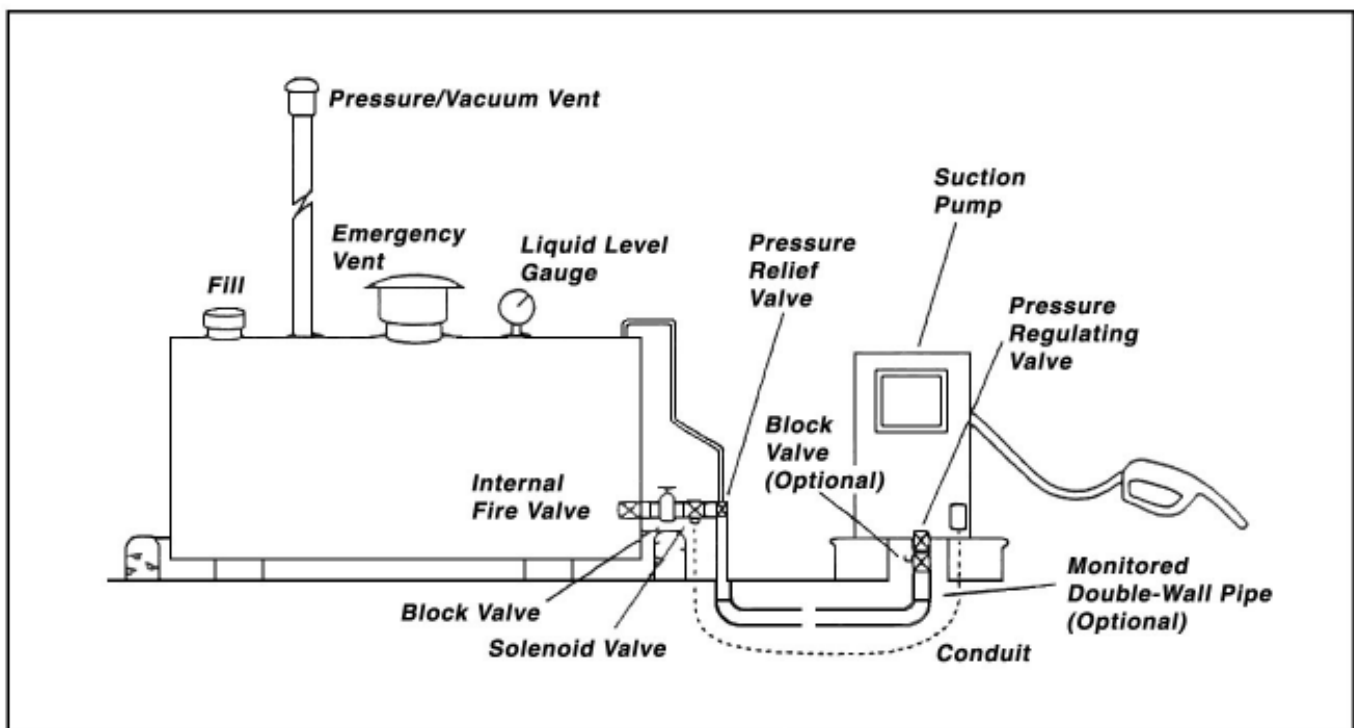


Figure 4 Suction System

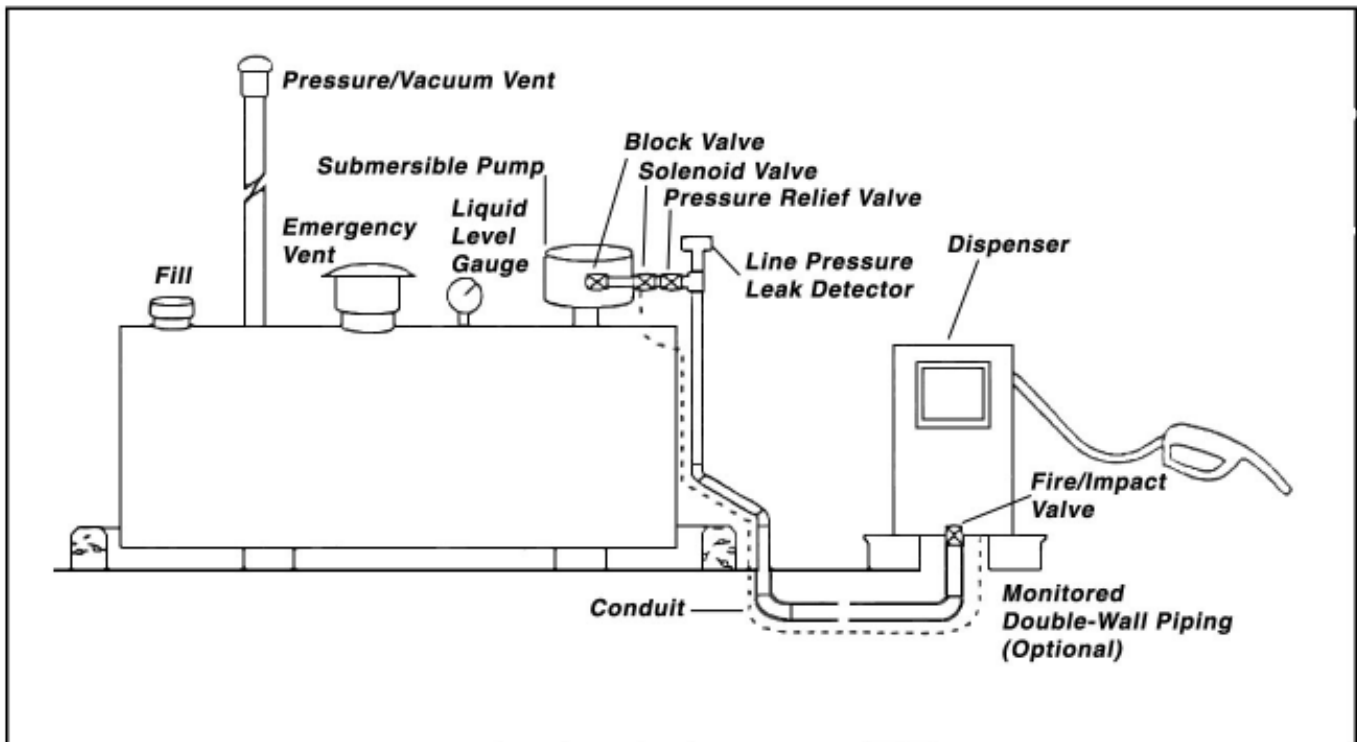


Figure 5 Remote Pump System

OPERATIONS

Any individual conducting the transfer of flammable or combustible liquids from a transport vehicle to a storage tank shall verify the available capacity of the tank prior to starting transfer operations. Proper electrical bonding shall be provided at all facilities where tank vehicles are loaded through open domes.

Each employee at a retail service station shall annually receive training on the proper procedures to be used in case of fire, overfill, or fuel spill situation. Such training shall include improper transfer of fuels, types of improper and illegal containers, and instruction on the proper use of fire extinguishers. Documentation of such training shall be maintained and be available for inspection.

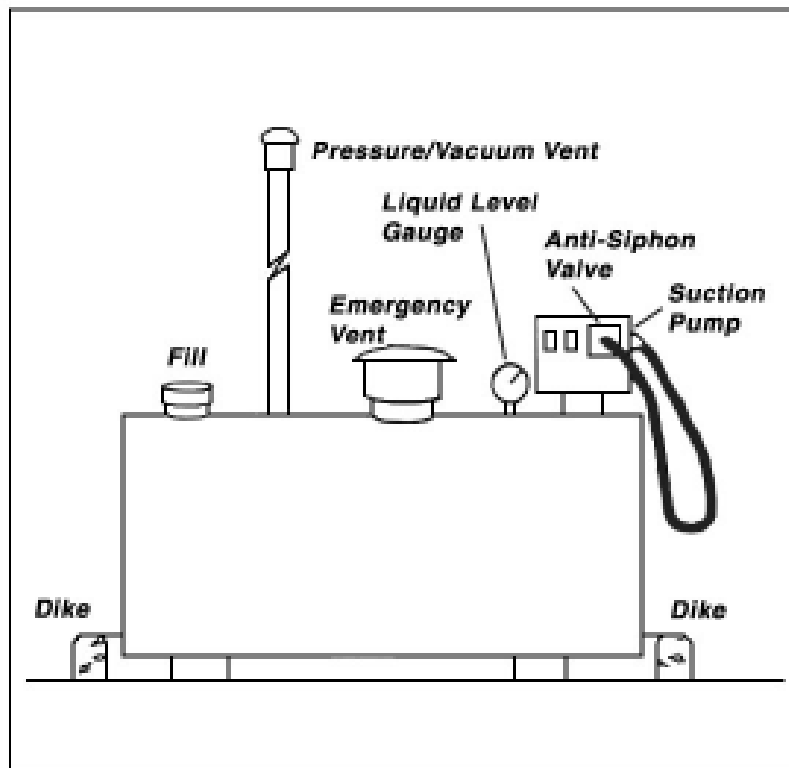


Figure 6 Tank-Mounted Suction System