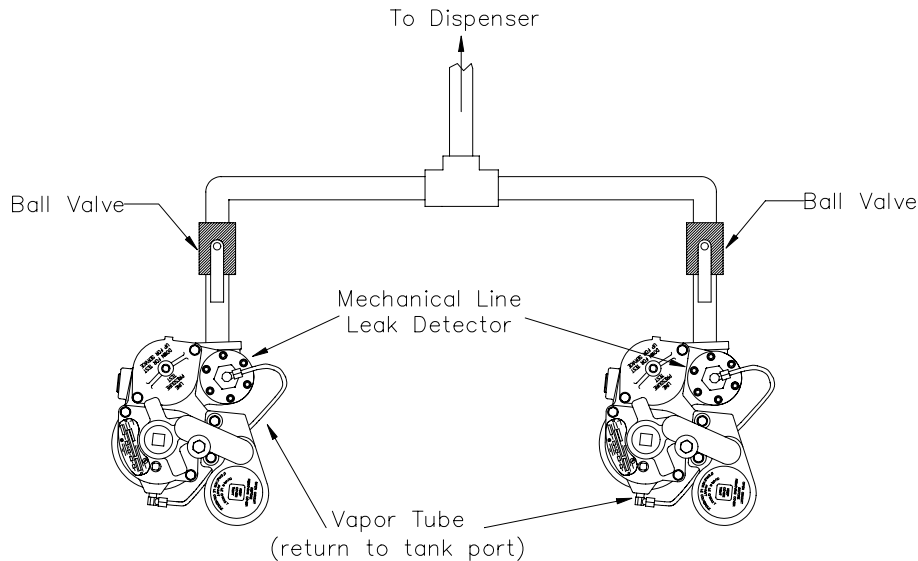


Recommended Installation of Manifolded STPs/ISTs Installed with Mechanical Leak Detectors


Mechanical Leak Detectors (MLDs) can be used with multiple tanks and pumps. The following example shows how to properly install MLDs in manifolded pumping systems and still be able to detect a three GPH leak. Always consider the type of product being pumped and the type of piping when selecting the correct MLD for the job. For further details selecting the correct MLD, please refer to Technical Bulletin TB002.




This example is only valid for installations when using the following controllers and their configurations listed in the table below.

STP-SCI/SCIII or MagVFC
Alternating Circuit (AC)
Master-Slave
Master-Slave & AC

This setup will **not** work if both pumps are turned on simultaneously because each MLD will meter three GPH resulting in a six GPH leak detection (i.e., more than one controller configured to Stand Alone). Additional pumps may be added to this configuration when using these controllers because these controllers will allow only one lead pump while the MLD is testing. Standard check valves (FE Petro model STD) with pressure relief factory presets of 40-45 PSI must be used in each submersible. No inline check valves are required.

Warning:  Highly flammable vapors or liquids may be present in the environment in which this equipment is installed or serviced. Installing or working on this equipment means working in an environment that presents risks of severe injury or death if instructions and standard industry practices are not followed. Follow all applicable codes governing the installation and servicing of this product and the entire system. Always lock out and tag electrical circuit breakers while installing or servicing this equipment and related equipment. Refer to the *Installation and Owner's Manual* of this equipment and related equipment for complete installation and safety information.

Warning:  An STP/IST can generate enough pressure to open the relief valve in the manifolded pumps. If the pumps are mounted in separate tanks, the operating turbine can fill the other tanks manifolded in the system and cause the tanks to overflow. This can cause both an environmental and safety hazard.

Please contact Technical Support if we may be of any assistance.