

Purpora Engineering, Inc.
(originally listed as Heath Consultants, Inc.)

Petro Tite Line Tester

LINE TIGHTNESS TEST METHOD

Certification	Leak rate of 0.1 gph with PD = 99.99% and PFA = 0.34%.
Leak Threshold	0.05 gph. A pipeline system should not be declared tight if the test result indicates a loss that equals or exceeds this threshold. Vendor claims this equipment can detect leaks at .01 gph, and trains operators to declare leaks at .01 gph.
Applicability	Gasoline (compatible with all blends of ethanol), diesel, biodiesel blends B6-B100, aviation fuel, fuel oil #4.
Specification	System tests fiberglass and steel pipelines. Tests are conducted at 150% operating pressure. Mechanical line leak detectors shall be removed or manually isolated from the pipeline for duration of test, or check valve in pump must be manually closed if testing is to be conducted with mechanical line leak detector in place.
Pipeline Capacity	Maximum of 129 gallons.
Waiting Time	None between delivery and testing. None between dispensing and testing.
Test Period	Minimum of 30 minute (three 10 minute or six 5 minute readings) test when the detected leak is less than 0.005 gph, or minimum of 1 hour (minimum of four 15 minute readings) test when the detected leak is 0.005 gph or greater for the first 30 minutes. Test data are acquired and recorded manually.
Calibration	System must be checked annually and, if necessary, calibrated in accordance with manufacturer's instructions.
Comments	The manufacturer does not support test results if the technician does not hold a current Petro-Tite certification when the test is performed. Re-certification is required by the manufacturer every 2 years. Third party evaluation was not conducted utilizing a test manifold. To validate the test results a final bleedback measurement must be performed to ensure the maximum allowable bleedback is not exceeded.

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