



Pressurized Line Leak Detection Test Reporting Requirements for the Marley Pump ATG System

BUREAU OF WEIGHTS AND MEASURES

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RESOURCES

[Wis. Admin. Code § ATCP 93.510](#)

https://docs.legis.wisconsin.gov/code/admin_code/atcp/090/93/V/510

[Wis. Admin Code § ATCP 93.515](#)

https://docs.legis.wisconsin.gov/code/admin_code/atcp/090/93/V/515

Materials Approval Page

https://datcp.wi.gov/Pages/Programs_Services/MaterialApprovalsLeakDetection.aspx

Marley Pump

<http://www.veeder.com/usa/red-jacket-fuel-pumping-systems>

Approval #990047-u

<https://datcp.wi.gov/Documents/ER-BST-MA-990047-u.pdf>

When to submit your test results

- When renewing your annual Permit-to-Operate the owner/operator must supply the department with passing test reports of the 3 most current consecutive months of testing, and each test must be 28-32 days apart. For example, if your first test was June 1, the second test must be July 1, and the third test must be on August 1.
- When an inspection is conducted by the State of Wisconsin, at least 12 months of test reports must be available for review by a state inspector.
- Below is a test example of the pressurized line leak detection printout for the Marley Pump ATG system. You are required to submit the test report when renewing your annual permit to operate.

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RED JACKET LEAK DETECTION SYSTEMS
RJE-ST_14.1

LEAK TEST SUMMARY
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06MAR98 13:07:03

LEAK SUMMARY
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15MAR98 09:41:49 - 09MAR98 09:41:49

TANK TEST

TANK 1
05MAR98 21:27:19 -0.039 GAL/H PASS
05MAR98 02:50:07 0.044 GAL/H PASS
05MAR98 05:13:14 0.099 GAL/H PASS*

LAST PASSED TEST
06MAR98 05:13:41 43.21 INCHES

0000 DAYS SINCE LAST PASSED TEST

LINE TEST

LINE 1
07MAR98 09:42:02 L1 COMPLETE STD TEST (MONTHLY)
07MAR98 13:29:30 L1 COMPLETE (HOURLY) TEST
07MAR98 20:59:18 L1 COMPLETE STD TEST (MONTHLY)
07MAR98 21:35:37 L1 COMPLETE (HOURLY) TEST
07MAR98 22:14:42 L1 COMPLETE PREC TEST (ANNUAL)
08MAR98 05:53:55 L1 COMPLETE (HOURLY) TEST

LAST PASSED TEST
06MAR98 05:53:54

0003 DAYS SINCE LAST PASSED TEST
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END OF REPORT
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If you have questions about how your Marley Pump Red Jacket ATG system works please contact your service company or Marley Pump directly. You can also find further information about your specific leak detection equipment on the materials approval page of our website. The Marley Pump material approval number is 990047-u.

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Leak detection FAQs

What is leak detection?

“Leak Detection” means determining whether a discharge of regulated substance has occurred from a storage tank system into the environment or into the space between the tank and its secondary barrier or containment.

What is “ATG”?

“Automatic Tank Gauging” (ATG) or “Automatic Leak Detection” means a leak detection or monitoring system that will provide continuous 24-hour monitoring for the detection of a release or leak of vapor or product and will immediately communicate the detection of the release or leak to an electronic signaling device.

What is Pressurized Line Leak Detection Monitoring?

[Wisconsin Administrative Code §§ ATCP 93.510](#) and [93.515](#) require all new and existing underground tank piping systems which store regulated substances to be provided with a method of leak detection. One of the acceptable methods of leak detection is pressurized line leak detection (LLD) testing.

Pressurized line leak detectors operate during idle periods by independently pressurizing the pipeline system, then isolating the system from the pump and monitoring the pressure drop. The pressure drop is measured for several pressurization cycles. When the leak detection system determines that thermal effects have been sufficiently reduced, it compares the final pressure drop with a preset limit. If the pressure drop exceeds that limit, a leak is declared.