

Atmos International Inc.

Atmos Tightness Monitor (ATM) for use on Airport Hydrant Systems Line Leak Detection Method for Airport Hydrant and Field Constructed Systems

Certification Leak rate of 0.0019% of pipeline volume (0.000019 gph per gallon of product) at a defined pressure of 150 psi in the pipeline segment being tested with PD = >95% and PFA = <5%.

Leak Threshold 0.00095% of pipeline volume (0.0000095 gph per gallon of product).
A pipeline system should not be declared tight if the test results indicate a loss that equals or exceeds 50% of the minimum detectable leak rate (MDL) (0.00095% of line volume).

Leak Detection Rate Per Test Section Volume (EPA maximum allowable/Atmos 3rd party certified)

Test Section Volume (Gallons)	EPA Semiannual Test- Leak Detection Rate Not to Exceed (Gallons Per Hour)	EPA Annual Test- Leak Detection Rate Not to Exceed (Gallons Per Hour)	Atmos 3rd party certified minimum detectable leak rate. (Gallons Per Hour)
5,000 to 26,315	1.0	0.5	0.50
26,316 to 52,631	1.0	0.5	1.00
52,632 to 78,947	1.5	0.75	1.50
78,948 to 105,263	2.0	1.0	2.00
105,264 to 131,578	3.0	1.5	2.50
131,579 to 157,894	3.0	1.5	3.00
157,895 to 184,210	3.0*	1.5	3.50
184,211 to 210,526	3.0*	1.5	4.00
210,527 to 236,842	3.0*	1.5	4.50

* Effective October 12, 2021, the EPA semi-annual minimum detectable leak rate cannot exceed 3.0 gallons per hour.

Applicability Gasoline, diesel, aviation fuel, fuel oil #4, solvents, waste oil, biodiesel B6-B20 meeting ASTM D7467, biodiesel B100 meeting ASTM D6751, crude oil, petroleum distillates in liquid form, cooling fluids, and water or water-soluble liquids.

Specification System tests either single or double-walled fiberglass or steel piping.

Pipeline Capacity System is applicable to any size of underground pressurized piping, between 5,000 and 236,842 gallons.

Waiting Time None between delivery and testing.
None between dispensing and testing.

Test Period Minimum of 45 minutes after setting up data collection.
Piping must be isolated during test.

System Features	System is permanently installed on pipeline to perform monitoring. Average test time for data collection and analysis is 65 minutes. System performance is expressed as a percentage of the piping volume per hour.
Calibration	System must be calibrated in accordance with manufacturer's instructions.
Comments	System designed for use on large underground bulk pipelines such as airport hydrant fueling systems. Manufacturer claims system is applicable to any size of underground pressurized piping, typically between 2,000 and 300,000 gallons. The size of the detectable leak scales upward with the size of the piping system. The original 2008 third-party evaluation utilized a total of 24 tests. 16 of these tests were conducted with various induced leak rates. The abbreviated 6-test evaluation performed in 2026 confirmed MDL is appropriate for scaling the system across various capacities, (see capacity table above)

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