

Veeder-Root

8601 Series/TLS4 Series Consoles (Model 8463 Magnetostrictive Probe)

AUTOMATIC TANK GAUGING METHOD

Certification	Leak rate of 0.2 gph with PD = 97.1% and PFA = 0.1%. Leak rate of 0.1 gph with PD = 95% and PFA = 0.4%.
Leak Threshold	0.126 gph for leak rate of 0.2 gph. 0.063 gph for leak rate of 0.1gph. A tank system should not be declared tight if the test result indicates a loss or gain that equals or exceeds this threshold.
Applicability	Gasoline, diesel, aviation fuel, biodiesel blends B6-B20 meeting ASTM D7467, biodiesel B100 meeting ASTM D6751.
Tank Capacity	Maximum of 30,000 gallons for leak rate of 0.2 gph. Maximum of 20,000 gallons for leak rate of 0.1 gph. Minimum product level required is based on tank diameter as follows: 48" dia/min 18"; 64" dia/min 21"; 72" dia/min 24"; 96" dia/min 30"; 120" dia/min 39"; 126" dia/min 39"; 132" dia/min 39".
Waiting Time	Minimum of 8 hours between delivery and testing. Minimum of 30 minutes between dispensing and testing. There must be no dispensing or delivery during test.
Test Period	Minimum of 3 hours Test data are acquired and recorded by system's computer (microprocessor). Leak rate is calculated from the difference between the first and last data collected. There must be no dispensing or delivery during test.
Temperature	Average for product is determined by a probe which contains 5 thermistors. At least two thermistors must be submerged in product during test.
Water Sensor	Must be used to detect water ingress. Minimum detectable water level in the tank is 0.5 inch. Minimum detectable change in water level in tank is 0.023 inch.
Calibration	Thermistors and probe must be checked and, if necessary, calibrated in accordance with manufacturer's instructions.
Comments	Not evaluated using manifolded tank systems. Therefore, for manifolded tank systems, this certification is only applicable when there is a probe used in each tank and the siphon is broken during testing. Tests only portion of tank containing product. As product level is lowered, leak rate in a leaking tank decreases (due to lower head pressure). Consistent testing at low levels could allow a leak to remain undetected. EPA leak detection regulations require testing of the portion of the tank which routinely contains product.

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Dates of Evaluation: 01/15/14 (30,000 gallon tank),
04/09/14 (20,000 gallon tank)

