


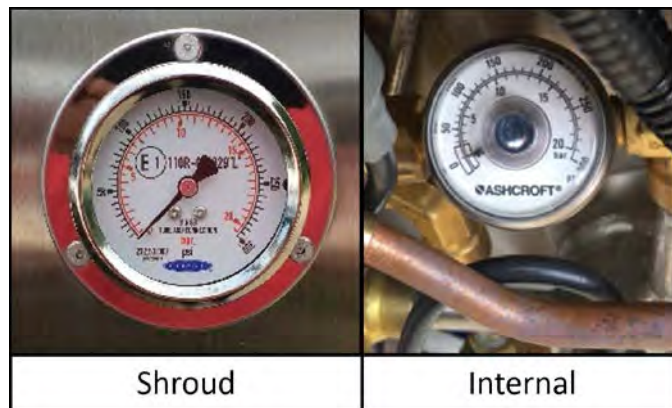
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|  | VT-0052 | 000 | 07-17 | CWH |
| | Chart LNG Pressure Gauge Accuracy Testing | | | |

OVERVIEW

Chart LNG tanks use one or both of two types of mechanical gauge to display the internal vapor pressure of the tank. Shroud mounted and/or internal mounted. Both types of gauge connect to the plumbing at the vapor circuit and should display the same pressure within 10Psi (0.7bar).

Troubleshooting pressure issues will require the service technician to be able to acquire the correct internal pressure of the tank. If multiple gauges are present on the tank and are displaying varying pressures of more than 10Psi (0.7bar), testing will be required to determine the accuracy of the gauges.

Gauge Accuracy Testing




TOOLS REQUIRED

- Known good gauge
- Vent Tool – Chart female QDV – PN: 10538867
- Fittings to adapt Vent Tool to known good gauge
- Nickel-impregnated tape - PN: 11811511
- Leak Detector
- Assorted Wrenches

SAFETY

Proper PPE – gloves, safety goggles, long sleeves, long pants, closed toe shoes, etc.
 Defuel and depressurize Chart LNG tanks before performing repairs to any parts that cannot be isolated off using the liquid or vent shut-off valves. If isolatable, depressurize the plumbing attached to affected parts prior to repairs. Always defuel and depressurize in a well ventilated area away from open flames and ignition sources.

This procedure is intended for use by trained technicians with experience on systems using LNG. Review all applicable safety documents before beginning this procedure.

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TESTING

If testing a dual tank system, only one tank’s gauge(s) can be tested at a time. Close the gray vent valve on the tank being tested (if dual tanks, close both gray valves). Attach a known good gauge to the vent tool. Remove the dust cap from the tank vent connector and wipe off the connector and the receiving end of the vent tool. Align the slots of the vent tool to the tank vent connector locking tabs. Rotate clockwise into place until the locking tabs are fully engaged.



Open the gray vent valve on the tank with the gauge(s) to be tested. Compare the pressure displayed on the known good gauge to the pressure displayed on the gauge(s) being tested. If variance is not within 10psi (0.7bar) replacement is recommended.

To remove the vent tool, close the gray valve(s) and rotate the vent tool counter-clockwise. There will be a small release of pressure when the tool disengages from the tank vent connector. Return all valves to normal operating positions.

NOTE: Before replacing a shroud gauge or internal gauge, the tank will need to be defueled per VT-0017-000 Manually Defueling a Chart LNG Vehicle Tank. Leak check all impacted connections before returning the tank(s) to service.

This procedure is intended for use by trained technicians with experience on systems using LNG. Review all applicable safety documents before beginning this procedure.