

LOW PRESSURE LEAK TESTING
DOWNSTREAM OF THE FINAL
SYSTEM REGULATOR

NFPA #54 ANNEX D SUGGESTED METHOD OF CHECKING FOR LEAKAGE

For systems serving appliances that receive gas at pressures of ½ psi (3.5 kPa) or less, by inserting a water manometer or pressure gauge into the system downstream of the final system regulator, pressurizing the system with either fuel gas or air to a test pressure of 9 in. w.c. ± ½" in. w.c. (2.2 kPa ± 0.1 kPa), and observing the device for pressure change. If fuel gas is used as a pressure source, it is necessary to pressurize the system to full operating pressure, close the container service valve, and then release enough gas from the system through a range burner valve or other suitable means to drop the system pressure to 9 in. w.c. ± ½" w.c. (2.2 kPa ± 0.1 kPa). This ensures that all regulators in the system are unlocked and that the leak anywhere in the system is communicated to the gauging device. The gauging device should indicate no loss or gain of pressure for a period of 3 minutes.

Low Pressure Leak Testing

- **Attach manometer to LDS2000/RV or RV-L in regulator port downstream of final system regulator**
- **Pressurize system to full operating pressure**
- **Release enough pressure to drop the system pressure to 9" w.c. plus or minus ½"**
- **There should be no gain or loss in pressure for 3 minutes**