



NEXGEN
FUELING™

A division of Chart Industries

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SAFETY PRECAUTIONS

CAUTION:

Follow all safety rules and procedures relating to handling LNG. Consult factory if in doubt about rules and procedures. Always use protective gear when making or breaking connections.

GENERAL LNG (LIQUEFIED NATURAL GAS) SAFETY

1. **WARNING: COVER EYES AND EXPOSED SKIN.** Accidental contact of LNG or cold issuing gas with the eyes or skin may cause a freezing injury similar to a burn. Protect the eyes and cover the skin whenever possible contact with cold liquids or gas exists. Always wear eye protection (goggles or a face shield) and gloves when working with or around LNG.
2. **WARNING: KEEP THE EQUIPMENT AREA WELL VENTILATED.** Although LNG is non-toxic, it can cause asphyxiate those working in confined areas without adequate ventilation. Any atmosphere that does not contain enough oxygen for breathing can cause dizziness, unconsciousness, or even death. Natural gas, being colorless, odorless, and tasteless cannot be detected by human senses. Without adequate ventilation, natural gas will displace the air and give no warning that there is a non-life supporting atmosphere. Store LNG in a well ventilated area.
3. **WARNING: REMOVE PRESSURE.** The LNG fuel system is a pressurized system. LNG will boil and cause pressure to build in the system. Always empty the vessel of LNG and any pressure before working on the LNG fuel system. DO NOT allow LNG to become trapped in piping (between two closed valves). The liquid will vaporize and rapidly increase pressure, bursting the pipe. Always empty the LNG fuel tank and remove any pressure from the system prior to removing parts or components for repair.

4. **WARNING: KEEP AWAY FROM FLAME OR SPARK.** Natural gas is flammable. Smoking, open flames, and general purpose electrical equipment must be prohibited in areas where LNG is stored or handled. LNG must be stored and transferred under positive pressure to prevent the infiltration of air or other gases. Keep the LNG equipment away from open flames or electrical sparks. Never permit smoking in an area where LNG equipment is repaired, filled, or stored.
5. **WARNING: ALWAYS VENT NATURAL GAS BACK INTO THE FUELING STATION AS PER STATION PROCEDURES.** Refer to station operating procedures whenever venting is necessary. If the fuel station does not have de-fueling capabilities, a proper vent stack should be assembled, attached to a metallic line from the vehicle tank that will direct the natural gas flow into the stack and allow it to vaporize, and then disperse the gas into the atmosphere.

This procedure is for use by trained mechanics experienced with using Liquefied Natural Gas systems and vacuum technology. Review all pertinent safety documents before starting this procedure.