INSTALLATION

1. Pour concrete to be flush with the top of the TGT Island Pit Box. The dispenser will mount to this island pit box (ipb) with 1/2" bolts through pre-punched holes. The island box needs to be self-supporting and not dependent on the electrical conduits or piping going to the dispenser for its support.

2. Note the rough-in heights of the conduits on the electrical drawing. The junction box is low in the cabinet; so make sure to leave plenty of room for the seal offs and unions. The top of the seal off should be flush with the top of the island pit box. You must leave access to all seal off for packing and sealing.

3. It is recommended an isolation valve be installed upstream of the dispenser so the dispenser can be removed or serviced without having to undo any pipefittings. If the dispenser is removed, the isolation valve stays with the piping, not the dispenser.

4. The vent line, 1/4" tube fitting, located inside the dispenser cabinet. You will need to connect this to the vent location at the site. An optional location for the vent line is up the retractor pole.

5. The TGT dispenser can be configured so the solenoid valve inside the dispenser serves as the temperature compensation valve. If this is done, there MUST be a pressure relief valve (as specified in NFPA 52, AGA NGV 4.1/CGA 12.5 Standard for NGV Dispensing Systems, Article 1.11.3, Item A) downstream of this valve.

6. The user, installation, service, and technical manuals, as applicable, shall be left with the appropriate person. Access to this material by service personnel is required.

7. Grounding is very important to the safe use of this dispenser. Grounding is needed for static discharge of electricity build up. Grounding should be done in accordance to NPFA 70 (NEC). All conduits whether high voltage or low voltage shall have a minimum of No. 12 AWG earth ground pulled separately in with the wires and attached to the grounding screw located inside the explosion proof box or attached to the pigtail wire. It is recommended to install a ground rod at dispenser.

8. The installation shall be in accordance with the following: The requirements of the authorities having jurisdiction, in accordance with the provisions of either the CAN/CGA-B108-M95 NGV Refueling Stations Installation Code, or the NFPA 52 Standard for Compressed Natural Gas (CNG) Vehicular Fuel Systems, and;

   The CAN/CSA-C22.1-1990 Canadian Electrical Code, Part 1, and NFPA 70 National Electrical Code, and;
   The dispenser system is intended for use with gas composition specified by SAE J1616 Recommended Practice for Compressed Natural Gas Vehicle Fuel Composition, unless additional precautions are taken, and;

   The dispensing device shall be installed as recommended by the manufacturer, and;

   The maximum allowable working pressure (MAWP) of the dispenser is 5000 psig.

9. Select the NGV1 nozzle for the delivery pressure of the vehicle and it shall be in accordance with AGA NGV 4.1/CGA 12.5 Standard for NGV Dispensing Systems, Article 1.9.3.

10. Three lines from the bank storage should be run to the dispenser with tubing sized to handle the flow rate of both sides.

11. It is recommended to put ESD (Emergency ShutDown) valves back at the storage to minimize the available gas to the dispenser in an ESD situation.