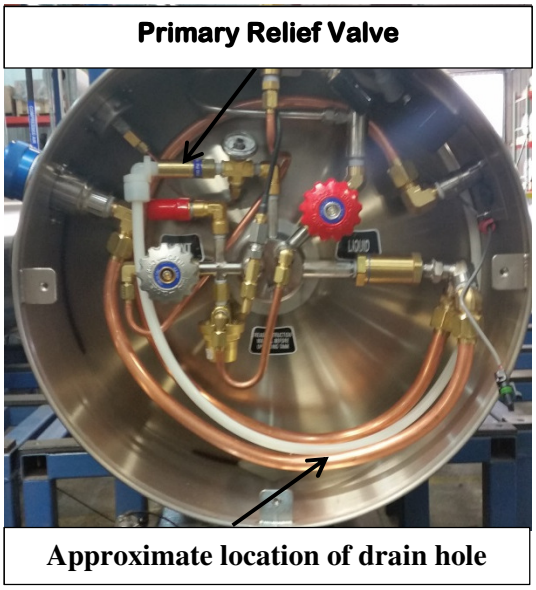
	VT-0020	001	03/18	BBK
CHART®	Primary Relief Valve Vent Tube Drain Hole			

OVERVIEW

Chart LNG vehicle tanks utilize a primary relief valve with a nylon vent tube. The vent tube ensures any relief valve discharge gas is vented to a safe location. This document is intended to give important information pertaining to the purpose of these components.

Standard Tank



Integrated Tank

The Primary Relief Valve is a brass cryogenic relief valve set at the maximum allowable working pressure (MAWP) for the tank. Its function is to vent product to atmosphere if the tank pressure exceeds the MAWP. It is connected to the top fill line so it also provides additional safety against over pressurizing the tank during filling operations.

The Primary Relief Valve is equipped with a pipeaway adapter to permit piping the relief valve gas to a safe location above the vehicle**.** Because methane gas is lighter than air, it will rise when discharged into the atmosphere. The relief valve discharge gas is typically piped to a vent stack that exhausts at the top of the vehicle with flow directed upwards. Since there is a possibility of relieving liquid through this line, its discharge path should be away from persons, ignition sources, or materials that could be damaged by exposure to cryogenic temperatures.

To prevent the possibility of water accumulating and freezing in the relief valve nylon tube, the relief valve pipe away tubing should include provisions for excluding rain and wash water from the line. The nylon tube on all

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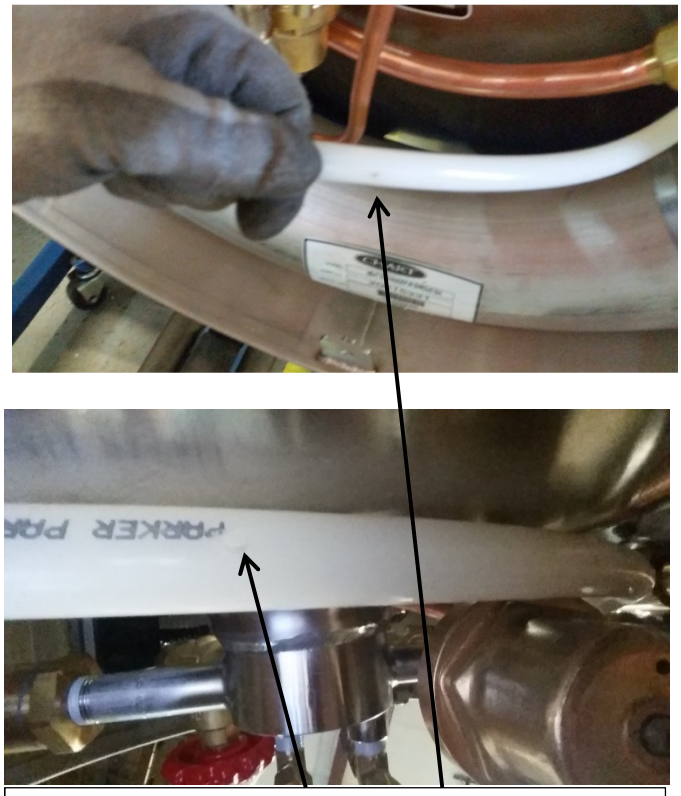
Chart LNG vehicle tanks incorporates a low point water drain hole. It is a 1/8” predrilled drain hole located at the lowermost portion of the nylon tubing, it allows water and moisture to drain from the line.
When the primary relief valve opens, the vast majority of gas goes out through the nylon tube and toward the vent stack outlet, however a small amount may be discharged out of the drain hole. This is a normal function of the tube.



Location of Drain Hole

DO NOT PLUG OR BLOCK THE MOISTURE DRAIN HOLE!
IT IS AN INTEGRAL PART OF THE TANK DESIGN.

Safety: Always wear appropriate safety equipment, appropriate clothing and eye protection when performing any maintenance checks.

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