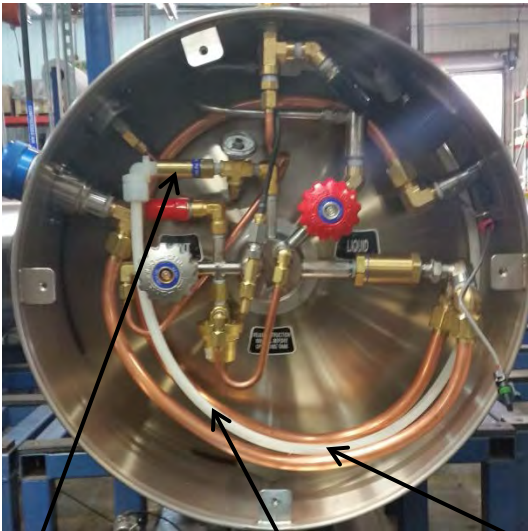
	VT-0020	000	12-14	ROJ
	Primary Relief Valve Vent Tube			

OVERVIEW

Chart LNG vehicle tanks utilize a primary relief valve and nylon vent tube to relieve the tank pressure to a safe location. This document is intended to give important information pertaining to the purpose of these components.

Standard Tank



Primary relief valve Nylon Vent tube Weep hole in vent tube


Integrated Tank



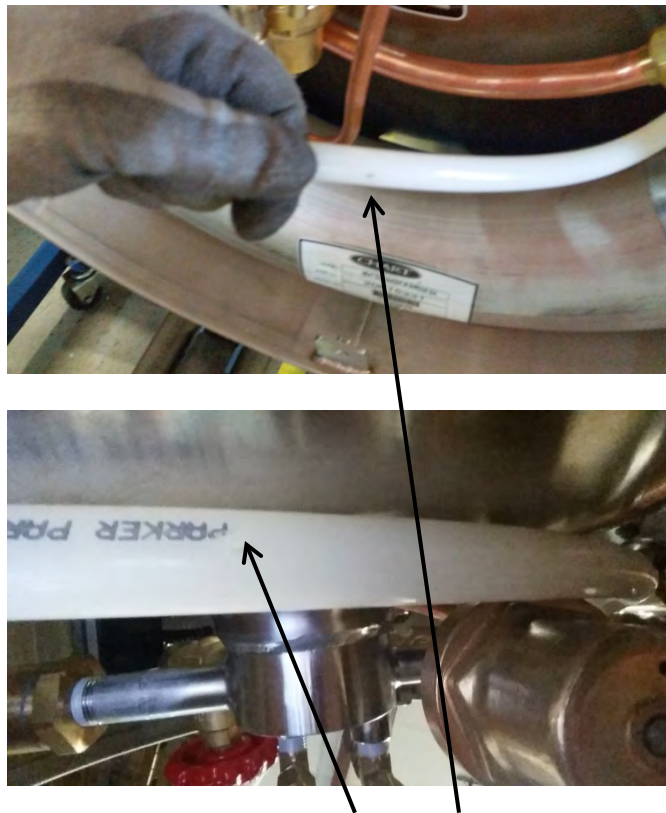
The Primary Relief Valve is a brass cryogenic relief valve set at the maximum allowable working pressure (MAWP) of the tank. Its function is to vent product to atmosphere if the tank pressure exceeds the MAWP. It is connected to the top fill line thereby providing additional safety against over pressurizing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

The Primary Relief Valve is equipped with a pipeaway adapter to permit piping the vent gasses to a safe location on the vehicle. Since methane gas rises it 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.

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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To prevent the possibility of water accumulating and freezing in the relief valve nylon line the vent stack should include provisions for excluding rain and wash water from the line and incorporate a low point water drain. (Weep Hole or Drain Hole) It is a 1/8 in predrilled hole there to allow water and moisture to drain from the line. When primary relief valve discharges, the vast majority of gas goes out through the vent stack but you may see a little come out of the vent hole. Do not be alarmed because this is normal to see.



Weep / Drain hole

DO NOT PLUG OR BLOCK THIS HOLE! IT IS DESIGNED TO BE THERE.

Safety: Always wear appropriate safety equipment, appropriate clothing and eye protection when performing any maintenance checks. Refer to VT-0038 for preventive maintenance procedures.

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