



Bulk CO₂

Technical Service Bulletin

Safety Advisory

TSB-BEV-1027

Date: March 13, 2019

Subject: Relief circuit installed with two Rego 450 PSI relief valves.

Products Affected: Identified Carbo-Mizer[®] Bulk CO₂ System tank models.

Background: Chart Beverage tanks are ASME coded pressure vessels designed with a max allowable working pressure of 300 PSI. The relief circuit is designed to adequately vent excess pressure above the max allowable working pressure of the tank by utilizing an ASME coded primary relief valve (PRV) set at the max allowable working pressure of 300 PSI. Chart installs a non-ASME coded 450 PSI secondary relief valve that complies with CGA S-1.3, par. 5.1.2.3 that states the secondary device “could be increased up to 150% MAWP.”

Description: Some Carbo-Mizer beverage tank models may have received two 450 PSI PRVs instead of one ASME stamped, 300 PSI PRV and one non ASME stamped 450 PSI PRV. This does not mean the tank is unsafe to operate, unless it has exceeded a tank pressure of greater than 450 psi. However, one of the 450 PSI PRVs *must* be replaced with a 300 PSI ASME stamped PRV, to comply with ASME code.

Resolution: Inspect your Chart Beverage tanks and if there are two 450 PSI relief valves installed, take following actions. If the tank is installed and has CO₂ in it, take the tank offline and safely depressurize the tank. Once the tank has no pressure in it, remove either one of the 450 PSI relief valves and replace it with a primary ASME coded 300 PSI relief valve (PN 11708400). Once the ASME coded primary relief valve has been installed you can now put the tank back online. Reference the pictures below for the primary ASME coded 300 PSI relief valves as well as the non-ASME 450 PSI secondary relief valves. The ASME coded 300 PSI PRV *must* have the ASME stamp on it, as shown in the photo below.

ASME Stamp



ASME Coded
300 PSI Primary Relief



ASME Stamp on
300 PSI Primary Relief



Non-ASME Coded
450 PSI Secondary Relief

Contact: If you have concerns or questions relative to this action, please contact your Chart Technical Service Representative at 1-800-247-4446. Thank you for depending on Chart for high product quality and service.