CGA

Compressed Gas Association

The Standard For Safety Since 1913

CGA G-6.5—2013

STANDARD FOR SMALL STATIONARY INSULATED CARBON DIOXIDE SUPPLY SYSTEMS

FOURTH EDITION

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Work Item 11-037
Carbon Dioxide Committee

NOTE—Technical changes from the previous edition are underlined.

FOURTH EDITION: 2013
THIRD EDITION: 2007
SECOND EDITION: 2001
FIRST EDITION: 1992

Contents **Page**

Figures

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1 Scope

The purpose of this standard is to provide a standard for small stationary insulated carbon dioxide systems. It is intended to assist designers, engineers, distributors, restaurant personnel, inspectors, other users, and all interested parties. Because portable tanks built to U.S. Department of Transportation (DOT) standards require special facilities to ensure they are not overfilled, this standard does not cover their use.

NOTE—DOT 4L tanks and ASME stationary containers can look the same to the inexperienced user. See Section 5.

This standard contains minimum requirements and recommended practice for the design, construction, installation, operation, and maintenance of small stationary insulated carbon dioxide systems from the fill connection to the carbon dioxide container gas outlet regulator. See Figure 1. These systems are primarily used for supplying carbon dioxide gas at beverage dispensing sites and can also be used in greenhouses, by welding fabricators, and for other applications. Additional information on carbon dioxide is published in CGA G-6, *Carbon Dioxide*, and CGA AV-7, *Characteristics and Safe Handling of Carbon Dioxide* [1, 2].[1]

***CAUTION**: The piping and equipment beyond the storage container outlet valve is capable of releasing hazardous amounts of carbon dioxide. Installation of piping and equipment downstream of the small stationary insulated carbon dioxide supply shall be performed by personnel qualified by reason of training, education, and experience with the equipment used, to suitable standards and codes to preclude accidents and injuries.*

The system shall be designed so the container does not become liquid full at the pressure setting of the pressure relief device (PRD). See 7.2 for the liquid transfer procedure. The PRD shall discharge to a safe location outside of the building.

While this standard is to be used as a guide for user installations, final approval of the design, equipment, appurtenances, and installation rests with regulatory authorities with jurisdiction in this area.

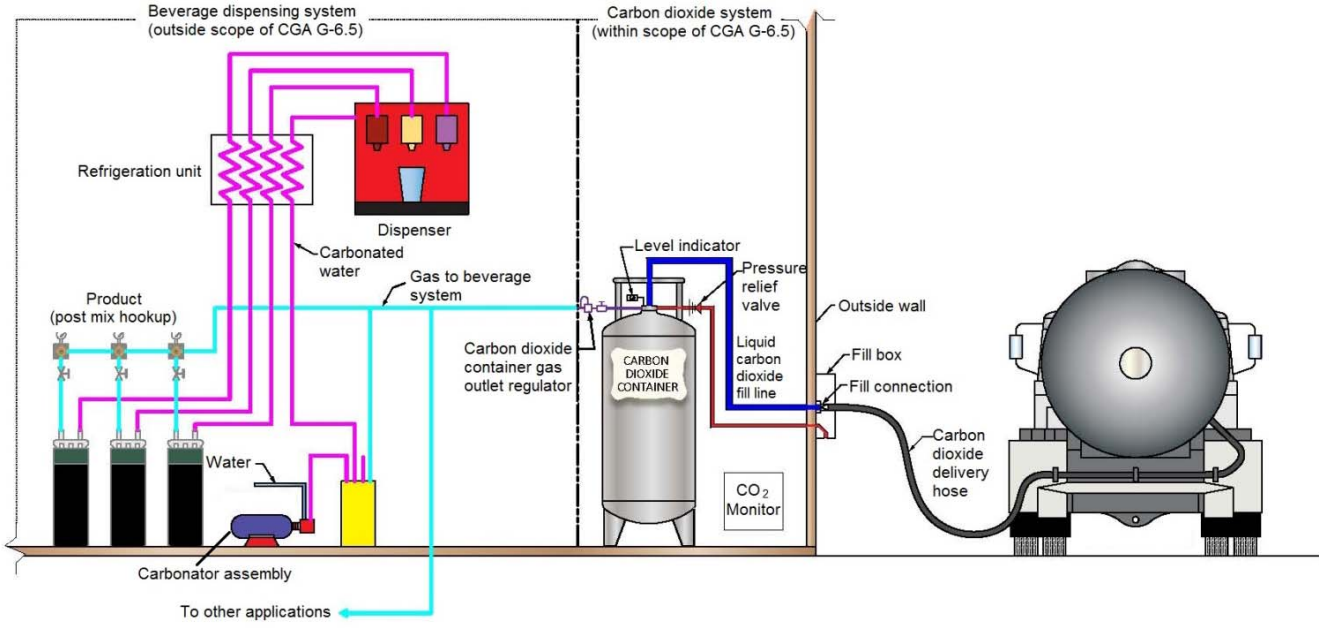

Figure 1—Typical small stationary insulated carbon dioxide supply system for beverage carbonation and dispensing

[1] References are shown by bracketed numbers and are listed in order of appearance in the reference section.