



COMPRESSED GAS ASSOCIATION, INC.

# SAFETY BULLETIN

**SB-10—2009**

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## PRECAUTIONS FOR CONNECTING COMPRESSED GAS CONTAINERS TO SYSTEMS

It is essential that any person handling a container of compressed gas or cryogenic liquid be certain of its contents before the container is connected to a system. Discharging a gas or cryogenic liquid into a system not intended for the material could cause a fire, explosion, equipment failure, gas leak, or other hazardous condition resulting in a serious or fatal injury.

Before attempting to connect a container to a system, be certain of the following:

- Personnel using the container are trained and knowledgeable regarding the product, container, fittings, equipment, proper connection procedures, and minimum required personal protective equipment;
- The container is clearly and properly marked or labeled with the identification of the contents. *Do not rely solely on the color of the container to identify the contents;*
- There are no conflicting markings, labels, or coloring. If there is any conflict or doubt about the contents, do not use the container, and immediately contact your supplier;
- The labeled contents are the intended product for use in the system;
- The container has the proper outlet connection(s) for its contents according to CGA V-1, *Standard for Compressed Gas Cylinder Valve Outlet and Inlet Connections* [1];
- Do not use adapters or excessive force. The connection(s) on the container and the system must fit together properly. A proper connection goes together smoothly without leaking; and
- Do not remove threaded or socket valve connections or other tamper resistant devices used on containers.

**WARNING:** *Failure to follow these precautions has caused fatalities.*

See CGA P-1, *Safe Handling of Compressed Gases in Containers*, CGA C-7, *Guide to the Preparation of Precautionary Labeling and Marking of Compressed Gas Containers*, and CGA SB-26, *Cylinder Connections on Portable Liquid Cryogenic Cylinders* for additional information [2, 3, 4].

## References

Unless otherwise specified, the latest edition shall apply.

[1] CGA V-1, *Standard for Compressed Gas Cylinder Valve Outlet and Inlet Connections*, Compressed Gas Association, Inc., 4221 Walney Rd., 5th Floor, Chantilly, VA 20151. [www.cganet.com](http://www.cganet.com)

[2] CGA P-1, *Safe Handling of Compressed Gases in Containers*, Compressed Gas Association, Inc., 4221 Walney Rd., 5th Floor, Chantilly, VA 20151. [www.cganet.com](http://www.cganet.com)

[3] CGA C-7, *Guide to the Preparation of Precautionary Labeling and Marking of Compressed Gas Containers*, Compressed Gas Association, Inc., 4221 Walney Rd., 5th Floor, Chantilly, VA 20151. [www.cganet.com](http://www.cganet.com)

[4] CGA SB-26, *Cylinder Connections on Portable Liquid Cryogenic Cylinders*, Compressed Gas Association, Inc., 4221 Walney Rd., 5th Floor, Chantilly, VA 20151. [www.cganet.com](http://www.cganet.com)

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