

**CGA P-1—2015**

**STANDARD FOR SAFE HANDLING  
OF COMPRESSED GASES  
IN CONTAINERS**

**TWELFTH EDITION**



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Work Item 12-042  
Safety and Health Committee

NOTE—Technical changes from the previous edition are underlined.

NOTE—Appendix A (Normative) is a requirement.

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<b>Contents</b>	<b>Page</b>
1 Introduction.....	1
2 Scope .....	1
3 Definitions.....	1
4 Regulations and standards applicable to compressed gases in containers.....	5
4.1 Transportation regulating authorities .....	5
4.2 Container regulations .....	5
4.3 Container filling regulations .....	5
4.4 Regulating authorities of workplace safety and health .....	6
5 General safe handling rules for compressed gas containers .....	6
5.1 Personnel .....	6
5.2 Content identification .....	6
5.3 User responsibilities .....	6
5.4 General precautions .....	7
5.5 Valve protection caps and valve outlet caps and plugs.....	7
5.6 Safe handling of containers .....	8
5.7 Transfilling .....	8
5.8 Storing containers.....	8
5.9 Connecting a container and withdrawing its content .....	9
5.10 Transportation in passenger vehicles.....	11
5.11 Emergency response .....	11
6 Safe handling and storage rules for compressed gas by hazard class .....	12
6.1 Hazard class.....	12
6.2 Flammable gases .....	13
6.3 Asphyxiant gases (including inert).....	15
6.4 Oxidizing gases .....	15
6.5 Corrosive and toxic gases .....	16
6.6 Gas mixtures .....	17
6.7 Cryogenic liquids .....	17
7 Precautions for tank cars, cargo, and portable tanks .....	18
8 Security issues .....	19
8.1 Facility security .....	19
8.2 Distribution security .....	20
9 References .....	20
10 Additional references.....	23
 <b>Appendix</b>	
Appendix A—Cylinder nesting (Normative).....	25
 <b>Appendix Figures</b>	
Figure A-1—Properly nested cylinders .....	25
Figure A-2—Improperly nested cylinders.....	25

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## 1 Introduction

Users of compressed gas shall become familiar with the properties and inherent hazards of the products they use. Valuable information about each specific gas is contained in its product labeling and safety data sheet (SDS). Read this information and inform others of the importance of understanding and applying the precautions established within the available safety literature.

The user is cautioned that hazard classification systems exist for labeling, storage, transportation, security, and other purposes, particularly from regulatory agencies, which can result in a different assessment of the hazard. In addition, there can be additional hazards not addressed in this standard; therefore, the user should consult the gas supplier's SDS for specific information. See Title 29 of the U.S. Code of Federal Regulations (29 CFR); CGA C-7, *Guide to Classification and Labeling of Compressed Gases*; and CGA P-19, *CGA Recommended Hazard Ratings for Compressed Gases* [1, 2, 3].<sup>1</sup> The user should perform due diligence to research any necessary codes or regulations that can affect the use of these products.

## 2 Scope

This standard is primarily for the users of compressed gases in containers and is based upon accepted good practices. This standard also contains precautions that are applicable to gas suppliers and distributors. It should not be assumed that all applicable safety and security precautions or regulations are contained here.

The term “container” as used in this publication shall refer to portable compressed gas cylinders and liquid containers made in accordance with the U.S. Department of Transportation (DOT), Transport Canada (TC), or the American Society of Mechanical Engineers (ASME) specifications [4, 5, 6]. Additional information covering small cylinders can be found in [CGA SB-27, \*Safe Use and Handling of Small Cylinders\*](#) [7].

Additional information and requirements contained in [CGA P-2, \*Characteristics and Safe Handling of Medical Gases\*](#), and other related publications it references should be reviewed when handling medical gases [8].

## 3 Definitions

For the purpose of this standard, the following definitions apply.

### 3.1 Publication terminology

#### 3.1.1 Shall

Indicates that the procedure is mandatory. Shall is used wherever the criterion for conformance to specific recommendations allows no deviation.

#### 3.1.2 Should

Indicates that a procedure is recommended.

#### 3.1.3 May

Indicate that the procedure is optional.

#### 3.1.4 Will

Is used only to indicate the future, not a degree of requirement.

#### 3.1.5 Can

Indicates a possibility or ability.

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<sup>1</sup> References are shown by bracketed numbers and are listed in order of appearance in the reference section.