Compressed Gas Association

The Standard For Safety Since 1913

CGA V-16—2023

GUIDELINE FOR THE APPLICATION OF CGA PUBLICATIONS TO CYLINDER VALVES

SECOND EDITION

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Cylinder Valve Committee

NOTE—Technical changes from the previous edition are underlined.

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Contents **Page**

1 Introduction 1

2 Scope 1

3 Definitions 1

4 Applicable publications 1
4.1 CGA V-9, *Compressed Gas Association Standard for Compressed Gas Cylinder Valves* [1] 1
4.2 CGA S-1.1, *Pressure Relief Device Standards—Part 1—Cylinders for Compressed Gases* [4] 2
4.3 CGA S-7, *Standard Method for Selecting Pressure Relief Devices for Compressed Gas Mixtures in Cylinders* [6] 2
4.4 CGA V-1, *Standard for Compressed Gas Cylinder Valve Outlet and Inlet Connections* [8] 2
4.5 CGA V-7, *Standard Method of Determining Cylinder Valve Outlet Connections for Industrial Gas Mixtures* [9] 2
4.6 CGA P-47, *Guidelines for FTSC Codes and Current Gas Listings* [7] 3
4.7 CGA P-66, *Guideline for the Selection of Pressure Relief Devices and Valve Outlets for UN Marked Cylinders* [12] 3
4.8 CGA V-19, *Marking Requirements to Mitigate Potential Cylinder and Cylinder Valve Thread Mismatches (formerly TB-16)* [13] 3
4.9 CGA V-7.1, *Standard Method of Determining Cylinder Valve Outlet Connections for Medical Gases* [11] 3
4.10 CGA PS-24, *Use of Tapered and Parallel (Straight) Threads in Aluminum Alloy Cylinders* [15] 3
4.11 CGA V-11, *Guideline for the Installation of Valves Into High Pressure Aluminum Alloy Cylinders* [16] 3
4.12 CGA V-15, *Use of Residual Pressure Valves* [18] 4
4.13 CGA TM-7, eLearning: *Introduction to Compressed Gas Cylinder Valves* [19] 4
4.14 CGA V-21, *Torque Guidelines for Sealing CGA Valve Outlet Connections (formerly TB-14)* [20] 4

5 Use of applicable standards when selecting cylinder valves 4

6 References 6

Table

Table 1—Valve selection guidelines 5

Figure

Figure 1—Guideline for the application of CGA publications to cylinder valves 5

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1 Introduction

Several CGA publications have been developed to promote public safety in the use of compressed gas cylinder valves.

2 Scope

This guideline helps cylinder valve users, buyers, sellers, manufacturers, and others in the application of the standards to ensure the safe and proper use of cylinders valves.

The following publications are applicable when selecting a cylinder valve; however, specific engineering specifications such as materials of construction, leak tightness, and valve type, are based on end use applications and are the responsibility of the user.

3 Definitions

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

3.1 Publication terminology

3.1.1 Shall
Indicates that the procedure is mandatory. It 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
Indicates 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.

4 Applicable publications

4.1 CGA V-9, *Compressed Gas Association Standard for Compressed Gas Cylinder Valves* [1][1]

This standard informs cylinder valve users, buyers, sellers, manufacturers, and others in the safe and proper use of cylinder valves.

This standard covers cylinder valve design, manufacture, and use including performance requirements such as operating temperature limits, pressure ranges, and flow capabilities. It also includes requirements such as materials, inlet and outlet connections, cleaning, qualification and production testing, maintenance, and reconditioning. This standard also includes guidelines and requirements for the design, material selection, testing, and marking of cylinder valve protective caps. This standard is intended for valves for compressed gases packaged in U.S. Department of Transportation (DOT) and Transport Canada (TC) cylinders. CGA V-9 is incorporated by reference into Title 49 of the U.S. *Code of Federal Regulations* (49 CFR) by DOT and CSA B340, *Selection and use of cylinders, spheres, tubes, and other containers for the transportation of dangerous goods, Class 2* by TC [1, 2, 3]. The edition incorporated may be different than the current edition available from CGA. Referenced editions are available on www.cganet.com. Valves are required to comply with the edition of CGA V-9 referenced in 49 CFR 171.7 and Clause 2 of CSA B340 [1, 2, 3].

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

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