CGA

Compressed Gas Association

The Standard For Safety Since 1913

CGA V-16—2016

GUIDELINE FOR THE APPLICATION OF CGA PUBLICATIONS TO CYLINDER VALVES

FIRST EDITION

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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 will help to inform 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]

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 range, 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. Except as noted, this standard is intended for valves for compressed gases packaged in U.S. Department of Transportation (DOT) and Transport Canada (TC) cylinders.

4.2 CGA S-1.1, *Pressure Relief Device Standards—Part 1—Cylinders for Compressed Gases* [2]

This standard represents the minimum requirements for pressure relief devices (PRDs) considered to be appropriate and adequate for use on cylinders with a water capacity of 1000 lb (454 kg) of water or less. Refer also to Title 49 of the U.S. *Code of Federal Regulations* (49 CFR) or CSA B340, *Selection and Use of Cylinders, Spheres, Tubes, and Other Containers for the Transportation of Dangerous Goods, Class 2* [3, 4]. This standard also applies to DOT-3AX, DOT-3AAX, and DOT-3T cylinders with a water capacity of over 1000 lb (454 kg) of water,