

CGA S-1.3 — 2024

10TH EDITION

**PRESSURE RELIEF
DEVICE STANDARDS -
PART 3 -
STATIONARY
STORAGE
CONTAINERS FOR
COMPRESSED GASES**



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NOTE—Technical changes from the previous edition are underlined.

NOTE—Appendices A and B (Informative) are for informational only.

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1 Introduction

This part of the Pressure Relief Device Standards presents the minimum requirements recommended by the Compressed Gas Association, Inc. (CGA) for pressure relief devices (PRDs) being used on compressed gas storage containers constructed in accordance with the *ASME Boiler & Pressure Vessel Code* (ASME Code) or the equivalent [1].¹ While these standards are written specifically to cover compressed gases as defined in 3.2.3, the procedures are applicable to storage containers with a maximum allowable working pressure (MAWP) exceeding 15 psi (103 kPa).²

2 Scope and purpose

2.1 Scope

It is recommended that containers use PRDs that meet the applicable requirements of the edition of the ASME Code or other applicable regulations, codes, standards, or specifications in effect at the time of manufacture. The container PRDs shall also meet the requirements of this standard, except containers for liquefied petroleum gas and anhydrous ammonia shall use PRDs meeting the applicable requirements of the following two standards:

- NFPA 58, *Liquefied Petroleum Gas Code* [3]; and
- CGA G-2.1, *Requirements for the Storage and Handling of Anhydrous Ammonia (an American National Standard)* [4].

A number of states and cities have pressure vessel laws and regulations that include requirements for PRDs. Manufacturers and users are cautioned that in some instances the relief devices recommended in this standard might not be acceptable unless special permission is obtained from the authority having jurisdiction (AHJ).

2.2 Purpose

The purpose of this standard is to complement the requirements of various regulations, codes, standards, or specifications applicable to storage containers for compressed gases. In case of conflict, the requirements of the regulations, codes, standards, or specifications of the AHJ over such containers shall apply. It is recommended that containers fabricated after December 31, 1975, use PRDs that meet the requirements of this edition of CGA S-1.3.

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. 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.

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

² psi, bar, and kPa shall indicate gauge pressure unless otherwise noted as (psia; bar, abs; and kPa, abs) for absolute pressure or (psid; bar, dif; and kPa, dif) for differential pressure. All kPa values are rounded off per CGA P-11, *Guideline for Metric Practice in the Compressed Gas Industry* [2].