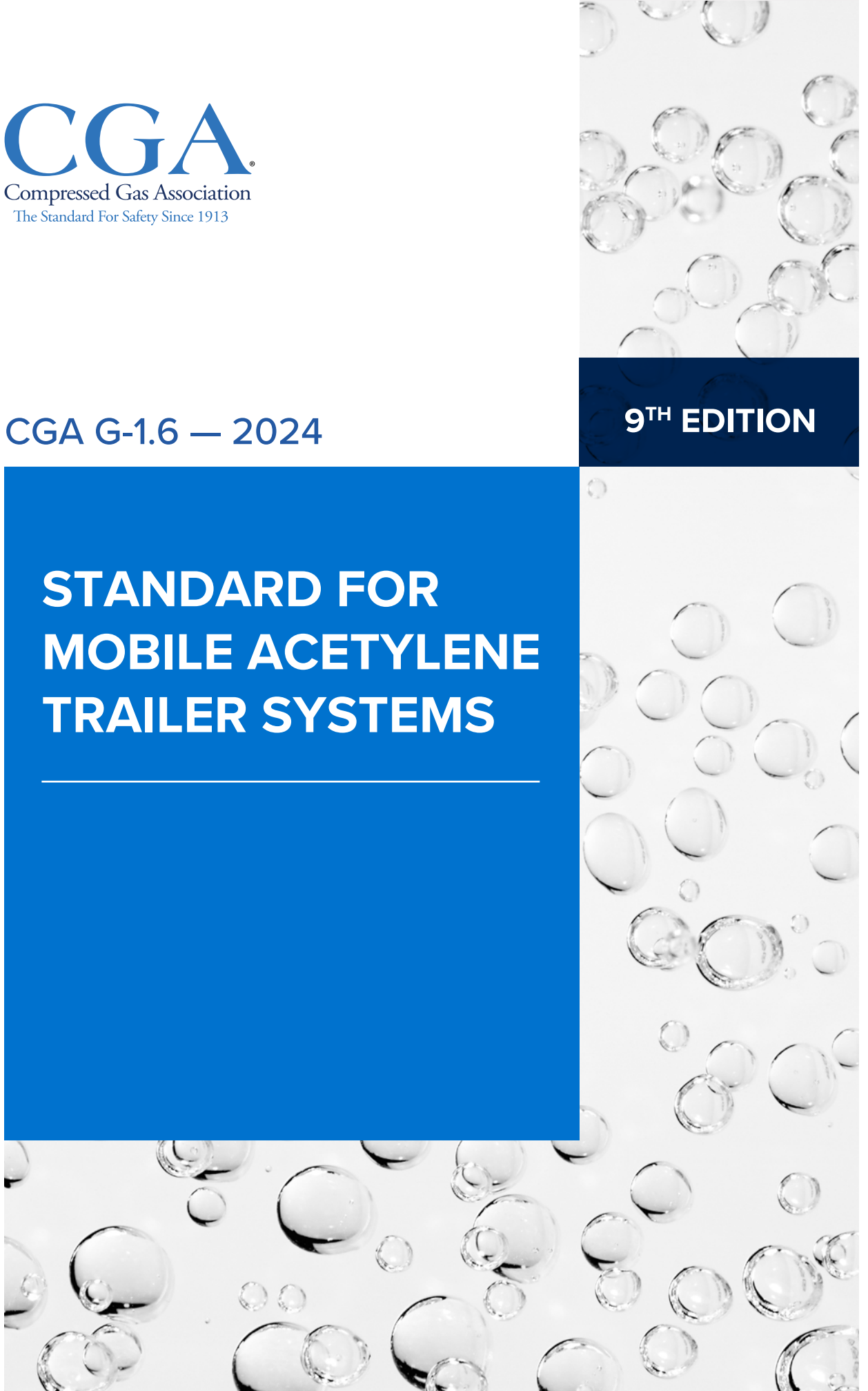




CGA G-1.6 — 2024

9TH EDITION

STANDARD FOR MOBILE ACETYLENE TRAILER SYSTEMS



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Work Item 22-037
Acetylene Committee

NOTE—Technical changes from the previous edition have been underlined.

NINTH EDITION: 2024
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1 Scope

This publication contains the minimum requirements necessary for the design, construction, and operation of mobile acetylene trailer systems (MATS) consisting of trailers having acetylene cylinders manifolded for the purposes of charging, transporting, and discharging acetylene. It also covers ground-mounted auxiliary equipment used with the MATS such as piping, regulators, flash arrestors, and meters.

2 Definitions

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

2.1 Publication terminology

2.1.1 Shall

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

2.1.2 Should

Indicates that a procedure is recommended.

2.1.3 May

Indicates that the procedure is optional.

2.1.4 Will

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

2.1.5 Can

Indicates a possibility or ability.

2.2 Technical definitions

2.2.1 Acetylene trailer

Open transport vehicle designed to be towed that consists of a group or groups of acetylene cylinders secured in accordance with Title 49 of the U.S. *Code of Federal Regulations* (49 CFR) 393.102 or Part 1 of the National Safety Code (NSC) Standard 10, *Cargo Securement*, as adopted by provincial and territorial regulations in Canada, and manifolded together as a single unit, for filling, transporting, and delivering acetylene [1, 2].¹

2.2.2 Authority having jurisdiction (AHJ)

Organization, office, or individual responsible for enforcing the requirement of a code or standard or responsible for approving equipment, materials, installations, or procedures.

2.2.3 Charging

Process of filling containers to limits authorized by U.S. Department of Transportation (DOT)/Transport Canada (TC) for a specific product including mixtures.

2.2.4 Deluge sprinkler system

Sprinkler system employing open sprinklers attached to a piping system that is connected to a water supply through a valve opened by the operation of a detection system installed in the same areas as the sprinklers. The sprinkler systems shall also be able to be activated manually. When this valve opens, water flows into the piping system and discharges from all sprinklers attached thereto [3].

2.2.5 Discharging

Withdrawal of product from an acetylene trailer through the manifold discharge valve while the trailer is connected to ground-mounted auxiliary equipment used with MATS.

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