



ABYC A-22 July, 2012

Equipment Division Standard

**Thermal Appliance Project Technical
Committee**

The ABYC Standards and Technical Information Reports for Small Craft are the product of a consensus of representatives of government, industry and public sectors. It is intended solely as a guide to aid manufacturers and the marine community in the design, construction, equipage and maintenance of small craft.

ABYC reviews each standard at least every five years at which time it may be reaffirmed, revised, or withdrawn. ABYC welcomes any written comments on the standards and Technical information reports.

ABYC A-22

MARINE COMPRESSED NATURAL GAS (CNG) SYSTEMS



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This list represents the membership at the time the Committee was balloted.

NOTE: Membership on a committee shall not in and of itself constitute an endorsement of ABYC or any document developed by the committee on which the member serves.

This standard was developed under procedures accredited as meeting the criteria for American National Standards. The Project Technical Committee that approved the standard was balanced to ensure that individuals from competent and concerned interests have had an opportunity to participate.

This standard, which is the result of extended and careful consideration of available knowledge and experience on the subject, is intended to provide minimum performance requirements.

ABYC's Project Technical Committee meetings are open to the public. All contact regarding standards activity, interpretations, or meeting attendance should be directed to the ABYC Technical Department at comments@abycinc.org.

ABYC and its committees do not "approve", "certify", or "endorse" any item, construction, or proprietary device.

REQUEST FOR INTERPRETATIONS

Upon written request, the Thermal Appliance PTC will render an interpretation of any requirement of the Standard. The request for interpretation should be clear and unambiguous. Requests should be presented to the PTC in a manner in which they may be answered in a yes or no fashion.

The committee reserves the right to reconsider any interpretation when or if additional information which might affect it becomes available to the PTC. Persons aggrieved by an interpretation may appeal to the Committee for reinterpretation.

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A-22 MARINE COMPRESSED NATURAL GAS (CNG) SYSTEMS

Based on ABYC's assessment of the existing technology, and the problems associated with achieving the goals of this standard, ABYC recommends compliance with this standard for all systems manufactured or installed after July 31, 2013.

22.1 PURPOSE

This standard is a guide for the design, manufacture, installation, and maintenance of compressed natural gas (CNG) systems on boats.

22.2 SCOPE

This standard applies to compressed natural gas (CNG) systems used on boats, up to the point of connection with the CNG appliance.

NOTES:

1. The U.S. Coast Guard regulations prohibit the use of compressed natural gas (CNG) on certain vessels and set different standards for small passenger vessels.

2. [ABYC A-1, Marine Liquefied Petroleum Gas \(LPG\) Systems](#), covers requirements for liquefied petroleum gas (LPG) systems for boats.

3. [ABYC A-3, Galley Stoves](#), covers requirements for CNG galley stoves.

4. [ABYC A-26, LPG and CNG Fueled Appliances](#), covers requirements for CNG and LPG fueled appliances other than galley stoves.

22.3 REFERENCES

22.3.1 The following publications form a part of this standard. Unless otherwise noted the latest version of referenced standards shall apply.

22.3.1.1 ABYC - American Boat & Yacht Council, Inc., 613 Third Street, Suite 10, Annapolis, MD 21403
Phone: (410) 990-4460. Fax: (410) 990-4466. Website: www.abycinc.org

[ABYC A-1, Marine Liquefied Petroleum Gas Systems \(LPG\)](#)
[ABYC T-5, Safety Signs and Labels](#)

22.3.1.2 AGA - American Gas Association, 400 N. Capitol Street NW, Washington, DC 20001. Phone: (202) 824-7000. Fax: (202) 824-7115. Website: www.aga.org

22.3.1.3 CFR - Code Of Federal Regulations and other government publications. Obtain from the Superintendent of Documents, United States Government Information, POB 371954, Pittsburgh, PA 15250-7954. Phone: (202) 512-1800 or Fax: (202) 512-2250. Website: www.access.gpo.gov. An excerpted edition of the CFR is also available from ABYC, Inc.

33 CFR 183.410(a)

22.3.1.4 CGA - Compressed Gas Association, 14501 George Carter Way, Suite 103 Chantilly, VA 20151-2923
Phone: (703) 788-2700 Fax: (703) 961-1831 Website: www.cganet.com

22.3.1.5 DOT – US Department Of Transportation, 1200 New Jersey Avenue, SE, Washington, DC 20590 Phone: (202) 366-4000. Website: www.dot.gov

22.3.1.6 NFPA - National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02269 Phone: (617) 770-3000. Fax: (617) 770-0700. Website: www.nfpa.org

NFPA 52 *Compressed Natural Gas (CNG) Vehicular Fuel Systems*