

IAPMO IGC 220-2022



Industry Standard for
**Breathing Air Replenishment Systems
(BARS)**



IAPMO Standard

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Contents

Preface

IAPMO Standards Review Committee

1 Scope

- 1.1 General
- 1.2 Alternative Materials
- 1.3 Terminology
- 1.4 Units of Measurement

2 Reference Publications

3 Definitions and Abbreviations

- 3.1 Definitions
- 3.2 Abbreviations

4 General Requirements

- 4.1 Tubing and Fittings
- 4.2 Pressurized Components
- 4.3 Pressure Monitoring Switch
- 4.4 Pressure Relief Valve
- 4.5 Exterior Connection Panel
- 4.6 Interior Air Fill Panel
- 4.7 Interior Air Fill Station
- 4.8 Fill Hose Connectors
- 4.9 Supports
- 4.10 Welding
- 4.11 Air Storage System
- 4.12 Interconnected Piping Distribution System

5 Testing Requirements

- 5.1 Static Pressure Test
- 5.2 Low Pressure Monitoring Switch Test
- 5.3 Compatibility Check Test
- 5.4 Final Proof Test

6 Markings and Accompanying Literature

- 6.1 Markings
- 6.2 Visibility

Preface

This is the third edition of IAPMO IGC 220, Breathing Air Replenishment Systems (BARS). This Standard supersedes IAPMO IGC 220-2006, Breathing Air Replenishment Systems (BARS). The previous editions of this standard are: September 2005, September 2006

This Standard was developed by the IAPMO Standards Review Committee (SRC) in accordance with the policies and procedures regulating IAPMO industry standards development, Policy S-001, Standards Development Process. This Standard was approved as an IAPMO Industry Standard in April 2022.

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- (4) *During its development, this Standard was made available for public review, thus providing an opportunity for additional input from stakeholders from industry, academia, regulatory agencies, and the public at large. Upon closing of public review, all comments received were duly considered and resolved by the IAPMO Standards Review Committee.*
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- (7) *IAPMO Standards are subject to periodic review and suggestions for their improvement will be referred to the IAPMO Standards Review Committee. To submit a proposal for change to this Standard, you may send the following information to the International Association of Plumbing and Mechanical Officials, Attention Standards Department, at standards@IAPMOstandards.org or, alternatively, at 4755 East Philadelphia Street, Ontario, California, 91761, and include "Proposal for change" in the subject line:*
 - (a) *standard designation (number);*
 - (b) *relevant section, table, or figure number, as applicable;*
 - (c) *wording of the proposed change, tracking the changes between the original and the proposed wording; and*
 - (d) *rationale for the change.*
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 - (a) *the edition of the standard for which the interpretation is being requested;*
 - (b) *the definition of the problem, making reference to the specific section and, when appropriate, an illustrative sketch explaining the question;*
 - (c) *an explanation of circumstances surrounding the actual field conditions; and*
 - (d) *the request for interpretation phrased in such a way that a "yes" or "no" answer will address the issue.*
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- (12) Proposals for amendments to this Standard will be processed in accordance with the standards-writing procedures of IAPMO industry standards development, Policy S-001, Standards Development Process.*

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IAPMO IGC 220-2022

Breathing Air Replenishment Systems (BARS)

1 Scope

1.1 General

1.1.1 This Standard covers building/structure installed breathing air replenishment systems (BARS) to be used in conjunction with self-contained breathing apparatuses (SCBA) and specifies requirements for materials, physical characteristics, performance testing, and markings.

1.1.2 This standard serves to supplement the provisions of Appendix F in the Uniform Plumbing Code (UPC).

1.2 Alternative Materials

The requirements of this Standard are not intended to prevent the use of alternative materials or methods of construction provided such alternatives meet the intent and requirements of this Standard.

1.3 Terminology

In this Standard,

- (a) “shall” is used to express a requirement, i.e., a provision that the user is obliged to satisfy to comply with the Standard;
- (b) “should” is used to express a recommendation, but not a requirement;
- (c) “may” is used to express an option or something permissible within the scope of the Standard; and
- (d) “can” is used to express a possibility or a capability.

Notes accompanying sections of the Standard do not specify requirements or alternative requirements; their purpose is to separate explanatory or informative material from the text. Notes to tables and figures are considered part of the table or figure and can be written as requirements.

1.4 Units of Measurement

SI units are the primary units of record in global commerce. In this Standard, the inch/pound units are shown in parentheses. The values stated in each measurement system are equivalent in application, but each unit system is to be used independently. All references to gallons are to U.S. gallons.