

# **IAPMO IGC 91-2019**

## **Electrical or High Density Magnetic Anti- Scale or Water Conditioning Appliance**



## ***IAPMO Standard***

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Published by

**International Association of Plumbing and Mechanical Officials (IAPMO)**

4755 East Philadelphia Street, Ontario, California, 91761, USA

1-800-854-2766 • 1-909-472-4100

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Printed in the United States of America

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## Preface

This is the tenth edition of IAPMO IGC 91, Electrical or High Density Magnetic Anti-Scale or Water Conditioning Appliance. This Standard supersedes IAPMO 91-2009, Electrical or High Density Magnetic Anti-Scale or Water Conditioning Appliance. The previous editions of this standard are: October 2009, September 1997, May 2004, October 2004, May 2005, October 2005, November 2005, January 2006, April 2008.

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 on August 12, 2019.

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- (5) *This Standard was developed in accordance with the principles of consensus, which is defined as substantial agreement; consensus implies much more than a simple majority, but not necessarily unanimity. It is consistent with this definition that a member of the IAPMO Standards Review Committee might not be in full agreement with all sections of this Standard.*
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  - (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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  - (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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# IAPMO IGC 91-2019

## Electrical or High Density Magnetic Anti-Scale or Water Conditioning Appliance

### 1 Scope

#### 1.1 Scope

This standard covers electrical or high-density magnetic anti-scale or water conditioning appliances in nominal pipe sizes from 12.7 mm (0.5 in) through 406.4 mm (16 in) and specifies requirements for materials, physical characteristics, performance testing, and markings.

*Note: It is not the intent of this standard to rate or verify the effectiveness of these products in reducing or eliminating scale in water piping systems. The effectiveness of these fittings or appliances is beyond the scope of this standard.*

#### 1.2 Alternative Materials

The requirements of this standard are not intended to prevent the use of alternative materials or methods 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.