IAPMO IGC 352-2020^{e1}

Industry Standard for

Diverter/Bypass Valves for use in Alternate Nonpotable Water Source Systems

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Preface

This is the third edition of IAPMO IGC 352, Diverter/Bypass Valves for use in Alternate Nonpotable Water Source Systems. This Standard supersedes IAPMO IGC 352-2018a, Diverter Valves for Diversion of Rainwater or Storm Water for use in Alternate Nonpotable Water Source Systems. The previous editions of this standard are: May 2018, and October 2018

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 April 20, 2020, Editorially revised July 9th, 2021.

Notes:

(1) The use of the singular does not exclude the plural (and vice versa) when the sense allows.

(2) The use of IAPMO Standards is completely voluntary; their existence does not in any respect preclude anyone, whether he has approved the standards or not, from manufacturing, marketing, purchasing, or using products, processes, or procedures not conforming to the standards.

(3) This standard was developed using an open process and in accordance with IAPMO Standards Policy S-001, Standards Development Process*, which is available on the IAPMO Standards website (www.IAPMOstandards.org).*

(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.

(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.

(6) Although the intended primary application of this Standard is stated in its scope, it is important to note that it remains the responsibility of the users of the Standard to judge its suitability for their particular purpose.

(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.*

(8) Requests for interpretation should be clear and unambiguous. To submit a request for interpretation of 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 "Request for interpretation" in the subject line:

- *(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.*

(9) IAPMO does not "approve", "rate", or endorse any item, construction, proprietary device, or activity.

(10) IAPMO does not take any position with respect to the validity of any patent rights asserted in connection with any items mentioned in this Standard and does not undertake to insure anyone utilizing this Standard against liability for infringement of any applicable patents, nor assumes any such liability. Users of this Standard are expressly advised that determination of the validity of any such patent rights, and the risk of infringement of such rights, are entirely their responsibility.

(11) Participation by federal or state agency representative(s) or person(s) affiliated with industry is not to be interpreted as government or industry endorsement of this Standard.

(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 352-2020e1
Diverter/Bypass Valves for use in Alternate Nonpotable Water Source Systems

1 Scope

1.1 General

1.1.1 This Standard covers 150 to 300 mm (6 to 12 in) diverter/bypass valves intended for diversion of rainwater, graywater or storm water for use in alternate nonpotable water source systems (not for use in sanitary waste systems) and specifies requirements for materials, physical characteristics, performance testing, and markings.

1.1.2 This standard covers valves specifically designed to divert high flows of non-potable water which includes, but not limited to, rainwater, stormwater, graywater and to address the special need for alternative large diameter valves for use with alternate water source systems, which cannot be practically met by existing valve designs compliant with IAPMO PS 59. The large diameter valves covered by this standard are either specially designed to fit the application and for use in alternate water source systems or are existing designs modified to fit the application such as gate, globe, angle, and butterfly valves. The latter options are traditionally accepted for use in pressurized systems and municipal stormwater management and do not meet the existing requirements applied to fittings and valves used in sanitary drainage applications. In particular, that waterways shall be smooth and free of obstruction and shall not restrict the flow or produce excessive turbulence.

1.2 Alternative Materials and Designs

The requirements of this Standard are not intended to prevent the use of alternative materials, designs 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.