

IAPMO PS 86-~~1995~~2019

**PUBLIC REVIEW DRAFT**

**Rainwater Diverter  
Valve for Non-Roofed  
Area Slabs**



# ***IAPMO Standard***

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# Preface

This is the second edition of IAPMO PS 86, Rainwater Diverter Valve for Non-Roofed Area Slabs. This Standard supersedes IAPMO PS 86-1995, Rainwater Diverter Valve for Non-Roofed Area Slabs. The previous editions of this standard are: 1995

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 **Month DD, YYYY**.

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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.*
- (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;*
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  - (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 PS 86-~~1995~~2019

## Rainwater Diverter Valve for Non-Roofed Area Slabs

### 1 **Purpose**Scope

#### 1.1 **Scope**

~~The purpose of~~This Standard ~~is to establish a generally acceptable standard for~~covers controlling rainwater from entering sewers in non-roofed drainage areas using a diverter valve. ~~Its purpose is to serve as a guide for producers, distributors, architects, engineers, contractors, installers, inspectors and users; to promote understanding regarding materials, manufacture and installation; and to provide a clear understanding of the correct operation of a mechanically controlled rainwater diverter valve. and specifies requirements for materials, physical characteristics, performance testing, and markings.~~

#### 1.2 **Alternative Materials**

The ~~provisions~~requiremetns of this Standard are not intended to prevent the use of ~~any alternate~~alternative materials or methods of construction, provided ~~any~~ such ~~alternate alternatives~~ meets 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.

### 2 **Reference Publications**

This section is reserved for later use.

### **3** Definitions and Abbreviations

This section is reserved for later use.

## ~~2~~ **Scope**

~~2.1~~ This standard presents the design criteria and specifications for a rainwater diverter valve for use in non-roofed drainage slabs.

### ~~3.1~~ **3.4** General Requirements

#### ~~3.1.4.1~~ **3.4.1** General

Valves shall have one port for the flow into the sewer, with a mechanical controller closing unit. The valve shall be securely mounted in minimum size diversion box as per manufacturer's recommendation, that has one or two outlet overflow lines to disburse the rainwater. The valve shall be manually activated when the rain ceases.

#### ~~3.2.4.2~~ **3.4.2** Materials

Valves shall be constructed of foundry brass castings with all working parts of brass and stainless steel.

#### ~~3.3.4.3~~ **3.4.3** Seal

The rainwater diverter valve shall have a positive closure seal.

#### **4.4** Activation

The valve is activated when the collector unit receives approximately 2.54 mm (0.10 in-) of rain.

#### ~~3.4.4.5~~ **3.4.5** Manual Operation

When the rainfall stops, ~~a gentle pull on~~ the stainless steel cable shall be pulled to locks the valve in the open position.

#### ~~3.5.4.6~~ **3.4.6** Sizes

Valves are available in 101.6 mm (4" in) and 152.4 mm (6" in) sizes and coupled to the sewer by means of a listed coupling.

## 45 Testing Requirements

### ~~4.1~~5.1 Life Cycle Test

#### 5.1.1 Test Procedure

The life cycle test shall be conducted as follows:

- (a) Install a representative sample of the rain water valve ~~shall be installed~~ so as to stimulate an actual installation~~;~~
- (b) Slowly Pour water ~~shall then be slowly poured~~ into the collector until 2.54 mm (0.1 in) of water accumulates in the collector~~;~~
- (c) Check to see if the valve activates once it reaches the designated height of water~~;~~ ~~The valve shall be activated when 2.54 mm (0.1 in.) of water accumulates in the collector.~~
- (d) Reset the rainwater valve ~~shall be rest~~ to lock valve in the open position~~;~~ and
- (e) Repeat this procedure ~~shall be repeated one hundred (100)~~ times.

#### ~~4.1.1~~5.1.2 Performance Requirements

The valve shall function as intended. There shall be no breakage or malfunction of the valve in normal operation.

## 6 Markings and ~~Identification~~ Accompanying Literature

~~5.1~~ — Each valve shall be permanently marked as follows:

- (a) Manufacturer's name or trademark on casting; and
- (b) Serial number stamped on casting.