IAPMO IGC 349-2018e1

Electronic Plumbing Supply System Integrity Protection Devices

IAPMO Standard

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1 Scope

1.1 General

1.1.1 This standard covers electronic plumbing supply system integrity detection devices for commercial and residential applications and specifies requirements for materials, physical characteristics, performance testing and markings.

1.1.2 Electronic plumbing supply system integrity detection devices covered by this standard can include the following features:

(a) Monitoring of the hydraulic conditions (pressure, temperature, flow) within the main or branch circuit.
(b) Automatic shut-off or electronic alarm notification and/or isolation of the supply piping when conditions are detected that indicate a leak or equipment malfunction.
(c) Iterative analysis of high-resolution readings of system conditions to ensure contiguous integrity; and
(d) Micro leak testing (drip detection).

Note: *Automatic water leak detection and control devices and Automatic water leak detection and shut-off devices that solely react to water contact to detect leaks are covered by IGC 115.*

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.