

**INTERNATIONAL ASSOCIATION OF PLUMBING
AND MECHANICAL OFFICIALS**

IAPMO GUIDE CRITERIA

FOR

WATER TREATMENT EQUIPMENT DRAIN CONNECTORS

IGC 119-97 (R2013)

1. PURPOSE

- 1.1** The purpose of this IGC is to establish a generally acceptable standard for water treatment equipment drain connectors. This IGC is not intended to be a specification guide nor is it intended to restrict design. 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 for identification of fittings complying with this IGC.
- 1.2** The provisions of this IGC are not intended to prevent the use of any alternate material, or method of construction, provided that any such alternate meets or exceeds the intent of this IGC.

2. SCOPE

- 2.1** This IGC covers water treatment equipment drain connectors, which are comprised of a reducer assembly, and air gap reducer assembly or a reducer wye. The reducer assembly and the air gap reducer assembly is designed to attached to the plumbing drainage system using a drainage tee, a diversion tee or a trap adapter. Such devices are intended to provide a transition connection from an appliance or water treatment equipment to the plumbing drainage system. This IGC covers definitions, materials, general requirements, performance requirements and marking requirements for such products.

3. REFERENCED STANDARDS

- 3.1** All standards referenced herein shall be the current edition of that standard as published in Table 14-1 of the Uniform Plumbing Code. Copy of the current Table 14-1 can be

obtained from IAPMO.

ASTM F 409 Thermoplastic Accessible and Replaceable Plastic Tube and Tubular Fittings

ASTM D 4101 Propylene Plastic Injection and Extrusion Materials

4. GENERAL REQUIREMENTS

- 4.1 Sizes.** The inlet size to the reducing adapter shall be either 1/4", 3/8" or 1/2" in diameter and the outlet dimension shall be either 1 1/4 or 1 1/2 in. (tubing size) in accordance with ASTM F 409. Diversion tees, conventional tees or trap adapters shall comply with ASTM F 409. Adapters designed for use with a conventional tee or trap adapter shall be fitted with a ring to prevent pass through the conventional tee or trap adapter.
- 4.2 Flow Ways.** The internal flow ways of the drain connector shall be free from burrs and obstructions.
- 4.3 Materials.** The materials in the conventional tee or diversion tee assembly shall be as specified in ASTM F 409. The reducing adapter shall meet the cell classification requirements of either F 409 or a cell classification of either PP0105G20A33350 or PP0105G36A45440 of ASTM D 4101.
- 4.4 Dimensions.** Tubing shall meet the dimensional requirements of ASTM F409.
- 4.5 Joints.** The joints within the diverter tee or conventional tee shall be of the slip joint type. The joints within the reducing adapter ell or wye adapter shall be either barbed, compression or quick disconnect type.

5. TESTING REQUIREMENTS

- 5.1 Dimensional Evaluation.** The components shall be examined for compliance with the specifications cited in Section 4.
- 5.2 Hydrostatic Test**
- 5.2.1 Drain Connector (except air gap type adapter).** The drain connector, except the air gap type drainage adapter, shall be installed in accordance with manufacturer's instructions. A six-inch length of copper tubing shall be installed on the inlet to the drain connector and shall be connected to a source of water which is capable of producing a 25 psi