

**INTERNATIONAL ASSOCIATION OF PLUMBING
AND MECHANICAL OFFICIALS**

**IAPMO GUIDE CRITERIA
FOR**

**PLASTIC ACRYLONITRILE-BUTADIENE-STYRENE (ABS) AND
POLY (VINYL CHLORIDE) (PVC) DRAIN, WASTE AND
VENT (DWV) PRESSURE TEST FITTINGS FOR USE
IN ABS, PVC OR CAST IRON DWV PIPING SYSTEMS**

IGC 192-2004 (R2014)

1. PURPOSE

- 1.1** The purpose of this standard is to establish a generally acceptable standard for plastic ABS (Acrylonitrile-Butadiene-Styrene) and PVC (Polyvinyl Chloride) pressure test fittings for use in ABS, PVC or Cast Iron drain, waste and vent (DWV) piping systems. It is also intended 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 identifying plastic ABS, plastic PVC DWV pressure test fittings that conform to this standard
- 1.2** The provisions of this standard are not intended to prevent the use of any alternate material or method of construction provided that any such alternate meets the intent of this standard.

2. SCOPE

- 2.1** Pressure test fittings covered by this standard are intended for use in plastic ABS (Acrylonitrile-Butadiene-Styrene), plastic PVC (Polyvinyl Chloride) or Cast Iron DWV (drain, waste and vent), piping systems. This standard covers general requirements, dimensions and tolerances, materials, test requirements along with markings and identification.
- 2.2** This standard covers minimum requirements for dimensions and tolerance, materials of construction, and minimum test requirements for the performance of plastic ABS or plastic PVC DWV pressure test fittings.

3. REFERENCE STANDARDS

- 3.1** All standards referenced herein shall be the current edition of that standard

ASTM A 888	Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent Piping Applications
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ASTM D 1784	Rigid Poly(Vinyl Chloride) (PVC) Compounds and Chlorinated Poly(Vinyl Chloride) (CPVC) Compounds
ASTM D 2235	Solvent Cement for Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe and Fittings
ASTM D 2564	Solvent Cements for Poly(Vinyl Chloride) (PVC) Plastic Piping Systems
ASTM D 2661	Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 Plastic Drain, Waste, and Vent Pipe and Fittings
ASTM D 2665	Poly(Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings
ASTM D 3311	Drain, Waste, and Vent (DWV) Plastic Fittings Patterns
ASTM D 3965	Rigid Acrylonitrile-Butadiene-Styrene (ABS) Materials for Pipe and Fittings
ASTM F 656	Primers for Use in Solvent Cement Joints of Poly(Vinyl Chloride) (PVC) Plastic Pipe and Fittings

4. GENERAL REQUIREMENTS

- 4.1 Plastic DWV pressure test fittings must match the interior profile of a standard fitting with a mechanism which will permit the DWV system to be temporarily closed and sealed for test purposes. The DWV pressure test fitting shall be designed to be installed as an integral component of the DWV system and remain in place during and after the DWV system test.
- 4.2 The design of the test fitting shall allow free flow to be restored and maintained once the DWV system test is completed. The open test fitting shall offer no more restriction to the flow of liquids and solid waste through the DWV system than a standard fitting.
- 4.3 The DWV test fitting with the temporary seal in place shall provide for a system free of leaks (seal) when subjected to a hydrostatic water test for a minimum of 15 minutes at a minimum of 25.0 psi hydrostatic water. (Allows for use in multiple floor testing)
- 4.4 Openings to the interior of the test fitting which exist for access to, or insertion of, the sealing mechanism shall be provided with means to be capped and sealed to meet the requirement of this specification.

5. DIMENSIONS AND TOLERANCE

- 5.1 The values stated are U.S. Standard: Metric equivalents are shown in parenthesis and given as reference.
- 5.2 ABS DWV pressure test fittings, Dimension and Tolerances shall comply with the requirements shown in Table A1.1 of ASTM D 2661 and Table 13 of ASTM D 3311.
- 5.3 PVC DWV pressure test fittings, Dimension and Tolerances shall comply with the requirements shown in Table 1 of ASTM D 2665 and Table 13 of ASTM D 3311.