

**INTERNATIONAL ASSOCIATION OF PLUMBING
AND MECHANICAL OFFICIALS**

IAPMO GUIDE CRITERIA

FOR

**ELECTRICAL OR HIGH-DENSITY MAGNETIC
ANTI-SCALE OR WATER CONDITIONING
APPLIANCE**

IGC 91-2009

1. PURPOSE

- 1.1** The purpose of this standard is to establish generally acceptable criteria for electrical or high-density magnetic anti-scale or water conditioning appliances. Its purpose is to serve as a guide for producers, distributors, architects, engineers, contractors, installers, inspectors and users; to promote understanding regarding design, materials, and the installation; and to provide for identifying electrical or high-density magnetic anti-scale or water conditioning appliances that conform to this standard.
- 1.2** The provisions of this standard are not intended to prevent the use of any alternate material, provided any such alternate meets the intent and requirements of this document and changes are amended to this standard.

2. SCOPE

- 2.1** This standard covers electrical anti-scale or water conditioning appliances in nominal pipe sizes from 1/2 in. (12.7 mm) through 3 in. (76.2 mm) and configurations include slip fittings, male nominal pipe threads (MNPT) for plastic and metal fittings and female nominal pipe threads (FNPT) for metal fittings only and high-density magnetic anti-scale or water conditioning appliances. In nominal pipe sizes from 3 in. (76.2 mm) to 16 in. (406.4 mm), flanged connections shall be used with the anode and cathode isolated from each other. This standard covers definitions, general requirements, in addition to general description of materials used and the method of marking and identification. It is not the intent of this standard to rate or verify the effectiveness of these products in reducing or eliminating scale in water piping systems. The effectiveness of these fittings or appliances is beyond the scope of this standard.

3. REFERENCE STANDARDS

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

ASME B1.20.1 Pipe, Threads, General Purpose (inch)