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INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS

IAPMO GUIDE CRITERIA

FOR

WATER CLOSET SEAT LIFTER

IGC 222-2005

1. PURPOSE

- 1.1** The purpose of this standard is to establish a generally acceptable criteria for water closet seat lifter. 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 an identifying water closet seat lifter complying with this standard.
- 1.2** The provisions of this standard are not intended to prevent the use of any alternate materials or methods of construction, 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 applies to water closet seat lifter and covers definitions, materials and finishes, general requirements, strength requirements and descriptive details for such products.

3. REFERENCE STANDARDS

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

ANSI Z124.5	Plastic Toilet Seats (Water Closets)
ASTM A 240	Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications
ASTM B 221	Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes
ASTM B 736	Aluminum, Aluminum Alloy and Aluminum-Clad Steel Cable
ASTM D 415	Sheilding Stock
ASTM D 415	Test Method for Vulcanized Rubber and Thermoplastic Elastomers - Tension
ASTM D 2000	Rubber Products in Automotive Applications
ASTM F 336	Design and Construction of Nonmetallic Gaskets for Corrosive Service

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4. GENERAL REQUIREMENTS

- 4.1 Materials.** Metallic components shall be a non-corrosive material complying with the requirements in ASTM A 240, ASTM B 736 or ASTM B 221. Non-Metallic components shall comply with ASTM D 412.
- 4.2 Design Features.** The water closet seat lifter shall not hinder the typical free motion of the seat. The foot pedal shall not extend outside the envelope of the water closet in such a way as to restrict wheelchair access or make contact with an appendage when in use. The height of the foot pedal is $9 \pm 1/2$ inches above the floor on a 17 inch tall water closet. The floor area is kept clear in order to facilitate cleaning.
- 4.3 Installation.** The water closet seat lifter shall be attached to the water closet using standard seat mounting hardware without affecting the porcelain in any way. If the existing seat is to be used; a small clip is attached to the underside of the seat using 2 small non-protruding screws after the water closet seat lifter is installed and positioned in the lifted position.
- 4.4 Seats.** When supplied, water closet seats shall comply with the requirements in ANSI Z124.5.
- 4.5 Coatings.** Coated parts shall comply with Section 5.2 "Coatings" of ASME A112.18.1.
- 4.6 Gaskets.** Gaskets material shall comply with the requirements in ASTM F 336 or D 2000.

5. TESTING REQUIREMENTS

- 5.1 Load Test.** The water closet seat lifter shall be installed per the manufacturer's instructions. Apply a downward load of 300 lbf onto center of the foot pedal of the lever. The force load shall be applied for at least 30 minutes.
- 5.1.1 Performance Requirements.** Water closet seat lifter shall not break, crack or fail.
- 5.2 Cycle Test.** The water closet seat lifter shall be installed per the manufacturer's instructions. The foot lever shall be compressed and depressed to lift the water closet seat up and down continuously for 10,000 cycles.
- 5.2.1 Performance Requirements.** Water closet seat lifter shall not break, crack or fail.

6. MARKING AND IDENTIFICATIONS

- 6.1** The device shall be marked with the following designations:

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