

**INTERNATIONAL ASSOCIATION OF PLUMBING
AND MECHANICAL OFFICIALS**

IAPMO GUIDE CRITERIA

IGC 256-2008

FOR

**RESIDENTIAL SINKS WITH INTEGRATED
RINSING OUTLETS**

1. PURPOSE

- 1.1** The purpose of this standard is to establish a generally accepted standard for sinks equipped with integral rinsing outlets below the flood plane of the fixture for flushing food waste out of the sink compartment into the food waste disposer. Its purpose is to serve as a guide for producers, distributors, architects, engineers, contractors, installers, inspectors, and users; to promote understanding regarding design, materials, manufacturing, and the installation; and to provide for identifying sinks that conform to this standard.

2. SCOPE

- 2.1** The provisions of this standard are to allow for the establishment of sinks that have integral rinsing outlets below the flood plane of the fixture. The provisions of this standard are not intended to prevent the use of any alternate design, assembly configuration, method or material, provided any such alternate meets the performance and minimum specification criteria outlined herein.

3. REFERENCE STANDARDS

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

ASME A112.18.1/CSA B125.1	Plumbing Supply Fittings
ANSI Z124.6	Plastic Sinks
ASME A112.19.1	Enameled Cast Iron Plumbing Fixtures
ASME A112.19.3	Stainless Steel Plumbing Fixtures
UL 1951	Plumbing Accessories
CSA B45.0	Plumbing Fixtures Standards (General)
CSA B45.2	Enameled Cast Iron Plumbing Fixtures
CSA B45.4	Stainless Steel Plumbing Fixtures
CSA B45.5	Plastic Plumbing Fixtures
CSA C22.2 No. 68	Motor Operated Appliances

4. GENERAL REQUIREMENTS

- 4.1 Sink Component.** The rinsing sink shall be in compliance with the appropriate ASME or CSA Plumbing Fixtures Standards and material specifications as follows: for Plastic ASME Z124.6 or CSA

B45.5; for Enameled Cast Iron ASME A112.19.1 or CSA B45.2; and for Stainless Steel ASME A112.19.3 or CSA B45.4.

- 4.2 Electronic and Electrical Components.** The electronic rinsing outlet/disposer controller shall comply with CSA C22.2 No. 68 or UL 1951.
- 4.2.1 Electrical System.** Electrical system shall allow for a mechanical disconnect of the disposer. Electrical system shall be compatible with any standard cord-connected continuous feed food waste disposer unless supplied with compatible food waste disposer.
- 4.3 Drain Size:** The drain opening of the sink shall be compatible with a typical 3-1/2" basket strainer and food waste disposer mounting flange, unless the system is supplied with a disposer designed to interface with NPS 1-1/2 piping.
- 4.4 Pressure and Temperature.** System shall be designed to comply with the requirements of ASME A112.18.1/CSA B125.1 as follows:
- Rated supply pressure to 100 psi, functioning at supply pressure from 20 to 125 psi
 - Rated supply temperatures: 40 to 160°F.
- 4.5 User Interface.** If applicable, user interface shall allow for emergency stop function by pressing any button to stop food waste disposer operation. User interface shall feature visual indication of run status as related to the food waste disposer.
- 4.6 Installation Instructions.** Each rinsing sink shall have the manufacturer's installation instructions packed with the product. Installation Instructions shall specifically include compliance of Backflow Protection Device to the requirements of the local codes.
- 4.7 Instruction manual.** An instructional manual shall be provided which includes instructions for routine maintenance and operation.

5. TESTING REQUIREMENTS

- 5.1 Water tight Joints.** After the sink has been filled to the flood plain for thirty (30) minutes, the interface between the sink and fitting shall not leak.
- 5.2 Life Cycle Test.** Components incorporating moving parts or parts subject to wear shall pass a 150,000 cycle life cycle test. The test(s) shall be performed at the maximum cycle rate the electromechanical and/or electronic components will allow. Length of operation per cycle or number of operations per cycle shall be determined by the manufacturer according to the standard operating rate or cycle length that is deemed to be most severe. At the conclusion of the life cycle test, the rinsing sink shall pass all requirements indicated in this standard. Water shall be supplied at 345 ± 35 kPa (50 $\pm$ 5 psi) flowing and 550 kPa (80 psi) maximum static pressure (valve closed). Cold water only shall be used at 10 ± 6 °C (50 $\pm$ 10 °F).
- 5.3 Water Delivery System.** The combined water delivery and electronic control, along with any included accessories from the manufacturer shall pass the performance requirements as specified in this section.
- The manufacturer shall determine the definition of one "cycle" to be used for this test. A "cycle" generally consists of a preprogrammed length of time during which the system is active following the activation by the user.
 - The performance test results are to be averaged over 10 trials to determine acceptability.