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Performance Requirements for Drain Air Gaps for Residential Dishwasher Applications

Section I

1.0 General

1.1 Application

Products covered by the standard are devices for installation in the drain line of residential dishwashers. The purpose of this device is to prevent the backflow of contaminated liquid and entrained material into the dishwasher.

1.2 Scope

1.2.1 Description

1.2.1.1 Critical Level

The device shall be an air gap so designed that it shall be capable to drain water down to the critical level (refer to section 3.3).

1.2.1.2 Flow Ways

The inlet shall have a minimum cross sectional area so that a 9.5 mm ($\frac{3}{8}$ inch) diameter ball will pass through it.

(The pressure side of the device shall be considered the inlet). Where the inlet flow ways are so constructed that a 9.5 mm ($\frac{3}{8}$ inch) diameter ball will pass completely through, it shall be considered as meeting this requirement. Fountain type devices shall be so constructed that portions of the device can be easily removed to allow removal of any accumulated dirt or obstruction from the flow ways which could block free flow.

1.2.1.3 Moving Parts Clearance

Where there are functional moving parts, the device shall be designed that binding will not occur during operation with temperatures varying from 4 °C (40 °F) to 93 °C (200 °F).

1.2.1.4 Detergent Resistance

The device shall function without any damage, distortion cracking or crazing due to detergent used in residential dishwashers.

1.2.2 Size Range

Inlet hose connections shall be sized to fit nominal 16 mm ($\frac{5}{8}$ inch) I.D. hose. Outlet connection shall be sized to fit nominal 22 mm ($\frac{7}{8}$ inch) I.D. hose.

1.2.3 Flow Range

The device shall operate at a flow rate not less than 19 L/m (5 GPM).

1.2.4 Pressure Range

The device shall operate at a pressure up to 35 kPa (5 p.s.i.).

1.2.5 Temperature Range

The device shall be capable of operating at temperatures ranging from 4 °C to 93 °C (40 °F to 200 °F).