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INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS

IAPMO GUIDE CRITERIA FOR INLINE SEWER DOSING UNITS

IGC 282-2011

1. PURPOSE

- 1.1** The purpose of this standard is to establish an acceptable standard for Inline Sewer Dosing Units (SDU). Its purpose is to serve as a guide for producers, distributors, architects, engineers, contractors, installers, inspectors, and users; to promote understanding regarding materials, manufacture, installation and performance; and to provide a means for identifying Inline Sewer Dosing Units that comply with this standard. Inline Sewer Dosing Units are intended to temporarily store and batch wise deliver measured volumes of waste water to the sewer line.
- 1.2** The provisions of this standard are not intended to prevent any alternate material or method 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 covers definitions, general requirements, testing requirements, and marking and identification.

3. DEFINITIONS

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

ASME A112.18.2/CSA B125.2	Plumbing Waste Fittings
ASME A112.19.2/CSA B45.1	Ceramic Plumbing Fixtures

4. GENERAL REQUIREMENTS

- 4.1 Materials.** SDU materials shall comply with the applicable requirements in Section 4.1 of ASME A112.18.2/CSA B125.2.

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- 4.1.1** For units that may be exposed to outdoor applications, the plastic material formulation shall be stabilized by suitable ultraviolet light stabilizers.
- 4.2 Design.** The internal flow ways of the unit shall be free from all burrs and obstructions. The waterway through the unit shall not be smaller at any point than the given inlet and outlet pipe diameters.
 - 4.2.1** The floor of the enclosure of the SDU shall be shaped in such a way as to not trap residual wastewater or allow for partial blockage. The floor shall have sloped contact surfaces to allow wastewater runoff to continue to the outlet sewer line.
 - 4.2.2** The batch-wise delivery system shall have sufficient end stops to allow the repeated batch-wise delivery while allowing a constant inflow volume.
 - 4.2.3** The unit shall allow for continuous venting through the standard sewer line venting system.
 - 4.2.4** The unit shall have an access opening to allow for maintenance.
- 4.3 Storage Capacity.** The storage capacity of the units shall be designated by the manufacturer as a function of the storage volume when charged with clean water and shall be greater than 2.4 gallons (9 L).
- 4.4 End Connections.** End connections shall be sized to the nominal pipe size of the connecting pipe system. End connections shall comply with the applicable requirements of Section 4.3 of ASME A112.18.2/CSA B125.2

5. TESTING REQUIREMENTS

- 5.1 Load Test.** Apply a uniformly distributed load of 2248 lbf. (10 kN) for 2 min to a 2 in. (50 mm) diameter plate placed in the centre of the specimen.

Note: For units that may include a higher load classification, the unit shall meet the manufacturer's load rating for the specified application (eg. Traffic Load).
- 5.1.1 Performance Requirements.** The unit shall not crack or deflect more than 3% of the largest transverse dimension with the load in place which prevents compliance with the remainder of this standard.
- 5.2 Hydrostatic Pressure Test.** The hydrostatic pressure test shall be conducted using water at $50 \pm 10^{\circ}\text{F}$ ($10 \pm 6^{\circ}\text{C}$). The unit shall be assembled in accordance with the manufacturer's instructions and subjected to a hydrostatic pressure of 5 psi (34 kPa) for at least 5 min.
 - 5.2.1 Performance Requirements.** The drainage envelope parts of waste fittings shall show no signs of leakage, cracking, or permanent deformation.

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