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## **SPECIFICATIONS**

### **TAPS™ ODOR CONTROL MANHOLE INSERTS**

#### **SCOPE**

**1.1** Under this item, the contractor shall supply and install to manufacturer's recommendations a Taps™ Odor Control Manhole Insert as shown on contract drawings and specified hereunder.

#### **MATERIALS & DESIGN**

##### **General**

**2.1** The Taps™ insert and components shall be manufactured from corrosion proof material suitable for atmospheres containing hydrogen sulphide and dilute sulphuric acid as well as other gases associated with wastewater collection systems and be filled with dry granules capable of effective control of odors associated with such gases.

##### **The Body**

**2.2** The body shall be made from Acrylonitrile Butadiene Styrene plastic that meets the Federal Standards of LP 1183 and can pass the following ASTM test requirements: D 256, D 638, D 790, D 792, D 785, D 648.

The thickness shall not be less than 3/32" nor greater than 6/32". The body shall be manufactured to the dimensions as shown on the contract drawings to allow easy installation in the manhole frame.

##### **Gasket**

**2.3** The gasket shall be made of closed-cell Neoprene. The gasket shall have a pressure sensitive adhesive on one side and be placed under the insert rim by the manufacturer. The adhesive shall be compatible with the body material so as to form a long-lasting bond in either wet or dry conditions of use.

##### **Lift Straps**

**2.4** The insert shall have two lift straps attached to its body. Lift straps shall be made of 1" width polyester nylon and shall be seared on all cut ends to prevent unraveling or deterioration. Lift straps shall be attached to insert body by means of a 3/16" stainless steel rivet.

##### **The Insert Granules**

**2.5** The granules shall remove H<sub>2</sub>S and malodorous compounds from the air stream via dry-air oxidation chemistry. Oxidation shall be accomplished via molecular contact with the granules, producing solid by-products which are deposited on and within the media. Other malodorous gases shall be treated by absorption and adsorption. Oxidation and absorptive capacities shall not be diminished by ambient humidity.

##### **Sizing**

**2.6** The insert shall be manufactured to fit the manhole frame rim from which it hangs. Specific field measurements shall be required prior to production of the insert. Instructions will be made available to the purchaser or engineer for proper measurements.

## **INSTALLATION**

**3.1** The manhole frame rim shall be cleaned of all dirt or debris before placing the insert upon the rim.

**3.2** The insert shall be fully seated around the manhole frame rim.

## **FIELD TESTING & TRAINING**

**4.1** Measure atmospheric H<sub>2</sub>S in ppm after removing cover but prior to installing insert. Measure again after installing insert and calculate removal percentage.

**4.2** No field training required.