

# INFLOW DISH

Simple Solutions & Incredible Results



## ADVANTAGES:

- No special tools are required to install CRETEX INFLOW DISH.
- Dramatically reduces sewage treatment costs.
- No corrosive parts, manufactured from corrosion proof material suitable for atmospheres and conditions commonly found in wastewater collection systems.
- Easy to install and remove.
- No maintenance and no inspection required once installed.
- Low cost.
- Cost-effective alternative to replacing existing manhole covers with water-tight covers.
- Manufactured from a material that has superior stress crack resistance, combined with a high impact strength.
- Controls sewer odors in residential areas.
- Optional gaskets and gas relief valve available.

**STOP** unwanted water inflow into your new or rehabilitated sanitary system through the manhole with this simple and inexpensive solution. Made of a high density polyethylene that meets ASTM D-1248 standards. Each Cretex INFLOW DISH can reduce the amount of surface water that limits your sanitary systems capacity as well as reducing the chance of a system overflow.

The CRETEX INFLOW DISH is a simple and inexpensive solution to stop unwanted water inflow from entering the manhole through the manhole lid into your new or rehabilitated sanitary system.



# SPECIFICATIONS

## GENERAL

Cretex Manhole Inflow Dish shall effectively reduce or prevent surface water inflow through manhole covers. The insert shall also prove effective in keeping dirt, salt, chemical spills, foreign debris, road oils, etc. From entering the manhole and collection system lines.

## INFLOW DISH

The Cretex Inflow Dish shall be manufactured from corrosion proof material suitable for atmospheres and conditions commonly found in wastewater collection systems.

The Cretex Inflow Dish shall be manufactured from a durable High Density Polyethylene Copolymer material that meets ASTM Specification Designation D-1248 Class A, Category 5, Type III. This material shall have superior stress crack resistance, combined with a high impact strength and shall have a minimum impact brittleness temperature of -105°F in accordance with ASTM D 746-70. The dish shall have a tensile strength of 3700 psi and an elongation factor of 800% meeting all requirements of ASTM D 638-71A. The thickness shall be a uniform 1/8".

## VENTING

The Inflow Dish shall have one of the following systems for relieving gas and/or vacuum pressure from the manhole; two 3/16" holes installed 180° apart, approximately 1" from the top of the insert, to allow for constant ventilation. This "no valve" method of ventilation should not be affected by grit accumulation, nor have any moving parts subject to corrosion. The venting system shall not allow water to completely fill the insert, which during cold weather could freeze and lift the manhole cover.

## INSTALLATION

The contractor shall field measure the manhole frame and cover to determine the information required on the manufacturer's "Sizing and Ordering" procedure. This information is needed to manufacture the Cretex Inflow Dish.

The manhole frame rim shall be cleaned of all dirt and debris before placing the Cretex Inflow Dish upon the rim. The dish shall be fully seated around the manhole frame rim. The manhole cover is replaced as before and the installation is complete.

After installation of the dish, the complete unit shall not allow more than 5 gallons of inflow per 24 hours.

## REMOVAL

The Cretex Inflow Dish shall have a corrosion resistant nylon strap installed for easy removal and re-installation into the manhole frame.

## PHYSICAL PROPERTIES

- **Ventilation is achieved by either the thru-bore, single or double valve methods.**
- **A nylon strap is factory installed to make removal of the unit a simple, one person operation.**
- **An optional factory installed closed-cell neoprene or cross-linked polyethylene gasket is available upon request.**
- **Standard model includes 2 vent holes and 1 lift strap.**
- **Has a uniform thickness of 1/8".**
- **Manufactured from High Density Polyethylene, meeting the requirements of ASTM D-1248, Class A, Category 5, with a finish thickness of 1/8".**
- **Has a minimum impact brittleness temperature of -105°F in accordance with ASTM D 746-70.**
- **The Dish has a tensile strength of 3700 psi and an elongation factor of 800% meeting all the requirements of ASTM D 638-71A.**
- **Has a softening temperature of 254°F, meeting all the requirements of ASTM D 1525-70.**



## SIZING AND ORDERING PROCEDURE

To insure proper fit, the Cretex Inflow Dish shall be manufactured to dimensions provided by the purchaser to allow easy installation within the manhole frame. Exact measurements shall be required from the purchaser to accurately manufacture the Inflow Dish.

### MEASUREMENTS

**COVER** — Measure the inside diameter of the manhole cover at its base "A". Measure the distance of the cover thickness "B".

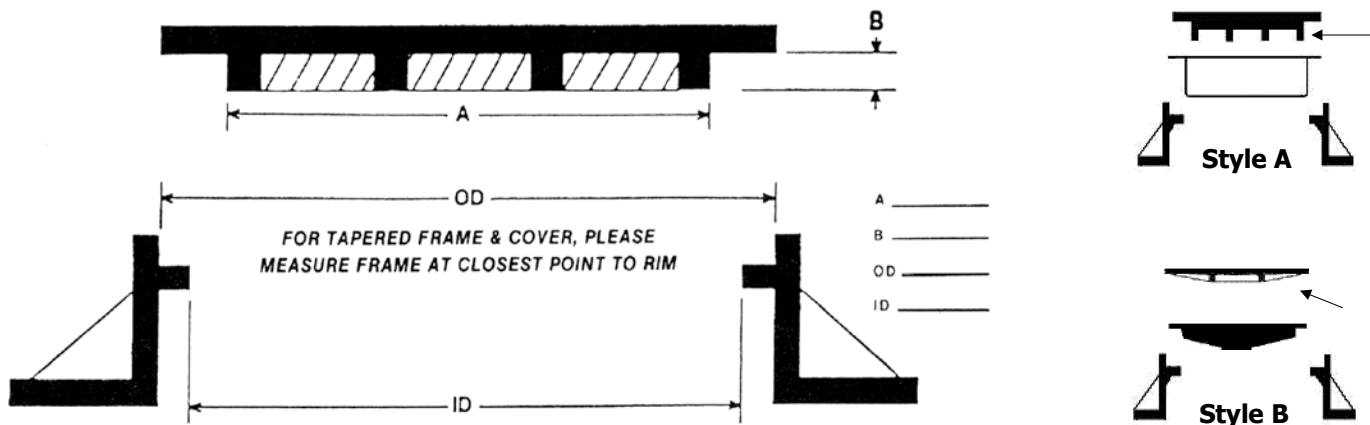
**FRAME** — Measure the outside diameter of the frame where the cover sits "OD". Measure the inside diameter of the frame's lip "ID".

NOTE: For tapered frame and cover, please measure frame at closest point to rim.

### SIZING REQUIREMENTS

To ensure proper fit and performance of the Cretex Inflow Dish, please provide the requested measurements as described. Note: It is important to identify which style of counter weight to ensure proper fit. Style "A" is designed with vertical or straight counterweight. Style "B" is tapered to the center from the outside edge of the lid.

*(Please enclose a copy of this drawing with your order)*



**STANDARD MODEL** Includes 2 vent holes and 1 lift strap.

**OPTIONAL GASKET** An optional "Black" neoprene gasket can be supplied.

**OPTIONAL DIFFUSER VALVE** An optional alternative ventilation valve or valves can be supplied that are manufactured of a Polypropylene Ethylene compound, are corrosion and wear resistant, and designed to release gas pressure at approximately 1 psi, and vacuum pressure at approximately 2 psi. The valve(s) material is unaffected by temperatures within a range of -70°F to 350°F.



## INFLOW DISH INSTALLATION INSTRUCTIONS

**SURFACE PREPARATION** – The manhole frame rim shall be cleaned of any loose rust or scale, and dirt any debris with a wire brush before placing the Cretex Inflow Dish upon the rim.

**INSTALLATION** – No special tools are required to install the Cretex Inflow Dish.

1. Remove manhole cover.
2. Wire brush the rim of the frame to remove any loose rust or scale, dirt and debris. A reasonably smooth, clean surface is required.
3. Place the Cretex Inflow Dish on the manhole frame rim.
4. The Cretex Inflow Dish shall be fully seated around the manhole frame rim.
5. Replace the manhole cover.