

# RHYNO TECH LLC

## Dual Sealing Lateral Control Device

### Technical Data Sheet

For all stainless-steel models and configurations.

#### Product Description

This is a Patent Pending internal drop system for any manhole and or lift station with a high flow rate or force main. This system incorporates a 316 stainless steel body with two separate means and capability of sealing. This system is designed to make a complete seal to the incoming sewer lateral as well as the substrate of structure. This system is comprised of 3 main components.

#### Main components

- 1) Main body: The main body of device is a fully Tig welded 14&10 gauge 316 stainless steel funnel shaped box that is curved in the back to match the contour of the interior wall of a standard manhole or lift station with an appropriate sized opening for pipe to enter. It is also curved in the front to help persuade incoming flow to smoothly be transitioned downward to an attached vertical pipe. The device has an optional lid that helps contain sewer and related gas from escaping the top of device. The lower portion is designed to attach to specified piping or fitting by mean of coupler (rigid or Flexible) or bell of pipe. Device is secured with a clamp around pipe that attaches directly to wall with pre-drilled mounting tabs
- 2) Clamp system: The Clamp system is shaped to the contour of pipe and bolts to the main body around the incoming sewer lateral. It's secured with provided stainless steel hardware.
- 3) EPDM Rubber Gaskets: These gaskets are attached to both back of device and on the contact surface of where the sewer lateral enters the main body and the bracket. Both gaskets will begin sealing once mounting hardware is secured

## Purpose and Benefits Of Design

- Drastically reducing the release of H<sub>2</sub>S and other dangerous and corrosive gases.
- Smooth transition between lateral and bottom of structure.
- Ease of installation makes it tremendously safer and more feasible to install on live pipes with high gpm flow rates eliminating the need for expensive elaborate bypassing.
- Creates a tight seal to pipe preventing wastewater from running along the bottom side of pipe and down the substrate like most traditional internal drops. This makes it possible to apply protective coatings without the worry of being washed away.
- An additional seal located between the substrate and the entire back mounting surface of main body gives peace of mind that there will be no sewer leaving the back of system.
- A Hinging lid helps contain gases and sewage during extreme flows, while maintaining a "fail safe" in the events of blockage in piping. It also makes for fast and convenient access during cleaning and maintenance.
- Can be equipped with an adapter plate to incorporate both seals, even with pipes cut flush with substrate.
- Can be custom built to accommodate any type or size of pipe material and configuration.
- Peace of mind knowing each box is hand fabricated ensure unparalleled quality and craftsmanship.

## Material Specifications

### Main body and brackets:

- 14/10 gauge 316(marine grade) stainless steel

### Seals: ASTM D2000 BA 607

- TYPE EDPM
- Durometer: 60A
- Color: Black
- Temperature range: -50F to 250F
- Density: 1.4 g/cm<sup>3</sup>
- Tensile Strength: 1000psi
- Elongation: 350%
- Tear Resistance: 20 N/mm
- Compression Set: 40%

### Mounting Hardware:

- Fasteners: 3/8" 316 stainless steel wedge anchors used to secure to substrate  
3/8" 316 stainless steel bolts with lock washers to secure body to pipe.
- .25" 1.5" stainless steel pipe brackets to secure specified vertical pipe.

## Installation

- 1) Loosen top strap and slide over inlet pipe, ensure pipe is sticking past the clamp between 1"-2". It may be necessary to trim pipe down or incorporate adapter plate.
- 2) Once the pipe is of appropriate length slide body back on to the pipe and firmly press up against the substate. Then tighten the provided hardware.
- 3) Drill 3/8" holes into concrete with rotary hammer utilizing the 4x pre-drilled holes on mounting tabs. be sure to insert 316 stainless steel wedge anchors each time new hole is drilled. Tighten down until snug. Rubber seal should begin to mushroom out on edges.
- 4) To finish out the installation attach vertical pipe and/or appropriate fitting with pipes bell/ coupler(rigid or flexible). Then secure to wall with 316 stainless steel brackets and 3/8" wed anchors.

#### Cost and availability

- All products available are manufactured and distributed by Rhyno Tech LLC located in Winchester Indiana
- Price varies by pipe size, material, and configuration.

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