



Wastewater Inflow Abatement Technologies & Services

LDL™ Clean-Out Plug & Smart Plug

Product Description:

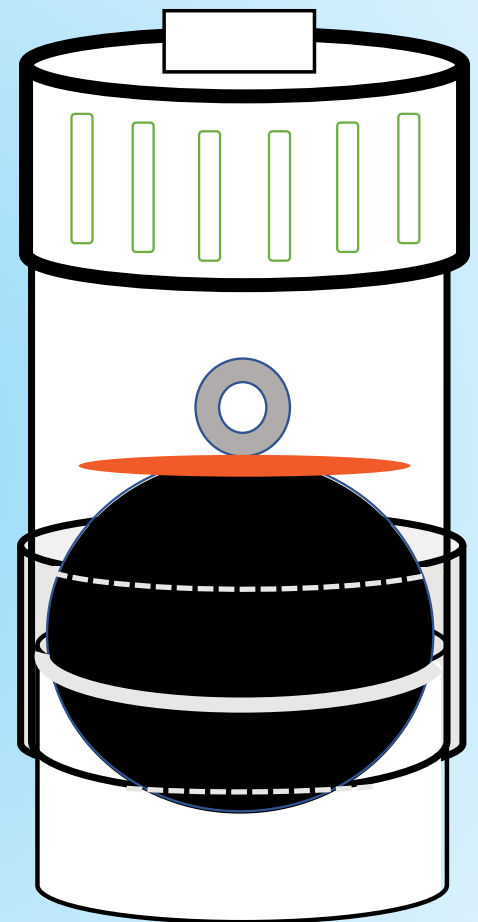
The LDL™ Clean-out Plug & Smart Plug assembly was designed to abate rainwater inflow from entering the lateral line clean-out access points, while also providing location.

Installation of the LDL™ Clean-out Plug & Smart Plug and Plug seat are depicted as shown. The outer sleeve and cap installs to the existing vertical PVC Pipe.

USSSI can install the LDL™ Clean-out Plug & Smart Plug assembly as part of our complete AIIM Inflow and Infiltration Abatement program.



Plug shown without Locator
(Standard Plug)



Plug shown with Locator
(Smart Plug). Cross Section View.
(Drawing Not To Scale)

USSSI was established in 1999 with the express purpose of eliminating rainwater inflow into the wastewater collection systems. We have developed the AIIM program which provides unique products, procedures and systems.

When rainwater is prevented from entering the front end of the collection system, the AIIM program reduces overflows and spillages by increasing sewer capacity. The AIIM program is not only effective in preventing "Inflow" but it is also cost effective.

LDL™ Clean-Out Plug & Smart Plug

Product Specifications



General Description

The LDL™ Clean-Out Plug & Smart Plug assembly was designed to abate rainwater inflow, provide location, while also preventing debris and contaminants from entering the sanitary sewer system through the lateral line clean-out access points. The LDL™ Clean-out Smart Plug assembly shall be manufactured to accommodate all PVC, clean-out dimensional sizes found in use for retro-fit purposes, and shall abate water even if the cleanout cap has been removed from cleanout vertical stack. LDL™ Clean-out Smart Plug assembly shall withstand all gases associated with waste water collection systems.

Plug Body

The LDL™ plug body shall be molded from a one-piece, synthetic urethane polymer material, designed to align and seal with the inner seat ring. The plug retrieval loop/hardware, shall be molded directly within the plug body, for easy access and superior strength.

Inner Seat Ring

The inner seat ring shall be fabricated from PVC material, and shall fit all PVC constructed, clean-out interior dimensional sizes found in use for retro-fit purposes. Seat ring to be fabricated with an internal tapered bevel and vertical seat design for proper alignment and seal with plug body.

Retrieval Loop / Hardware

Retrieval loop and hardware assembly shall be made from corrosion resistant materials and be permanently molded into the plug body. Loop portion of device shall be exposed for retrieval purposes and shall protrude vertically from plug body to a minimum dimension of one inch.

3M™ EMS Near-Surface Marker

Designed to provide an accurate, long-lasting method of marking clean outs. Surface Marker shall be colored coded for wastewater and molded into the LDL™ Clean-out Smart Plug with top exposed.

Installation

For proper abatement results. Remove clean-out cap and set aside. Using clean and dry cloth, wipe interior of vertical PVC cleanout stack. Lightly scuff interior of PVC stack, and swab with PVC cleaner liquid onto entire area where the inner seat ring is to be located. Also swab seat ring outer diameter area with PVC cleaner. Evenly apply PVC glue to interior walls on cleaned surface area. For proper alignment and location, slide seat ring down into interior of PVC cleanout vertical stack, let seat ring sit for five minutes to permit ring to bond with vertical stack. Install plug body and re- install cleanout cap. Installation*2 Remove cleanout cap. Cut vertical pipe a minimum of 2 inches below existing vertical pipe and set aside. Using a clean and dry cloth, wipe top of vertical pipe and also the bottom of the pipe that was set aside. Using pvc glue swab the outside of the vertical pipe and place coupling. Using pvc glue swab the bottom of the pipe that was set aside and place into coupling. When glue is dry place LDL Plug in pipe and it will seat inside the specially designed coupling and then re-install cleanout cap.

Maintenance

The LDL™ clean-out smart plug components were designed for maintenance free operation. The plug body/ retrieval hoop was designed for easy removal from cleanout access points, for future cleanout service needs.

Warranty

Five-year warranty on plug assembly.

Manufacturer

The LDL™, clean-out smart plug, shall be furnished exclusively by USSSI, LLC, Venice, FL.

Ordering Criteria & Other Abatement Solutions

To ensure proper fit with cleanouts, PVC pipe size field dimensions are required. To order, please contact USSSI.