



## Model 146PL “Never Sink” Manhole

### INSTALLATION INSTRUCTIONS



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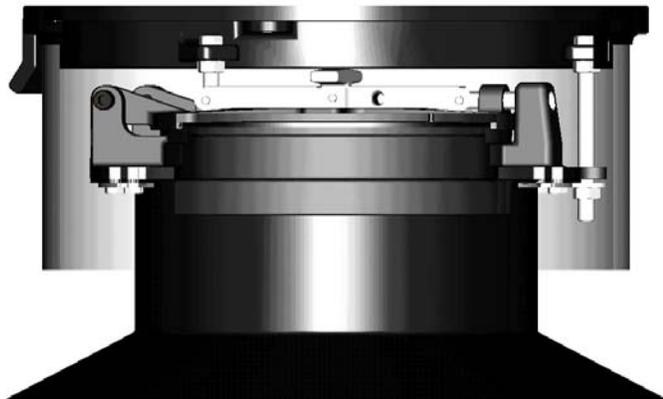
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Rev A

**Below Grade Rain Tight Sink-Proof Spill Containment Manhole  
Universal Valve Co. Model #146PL**

The Universal Below Grade Rain Tight Sink-Proof manhole is designed to solve the problem of tank settling and interference of fill nozzles due to sunken risers. After an Underground Storage Tank (UST) is installed, there is some settling of the backfill and pea gravel, causing the tank along with the riser pipe to settle by as much as 3" to 5". This causes a problem with filling, since the nozzle elbow cannot be fixed to the riser due to interference with the at-grade manhole. Universal's new manhole eliminates this nuisance by bolting the ring of the At-Grade manhole to the Below-Grade manhole. The bolts used are adjustable and securely fastened to each ring by cast protrusions. Once the bolts are adjusted, a riser pipe extension can be used to extend the riser due to settling of the base and stretching of the bellows.



The Below Grade manhole also features an all-new rain tight bolt-cam action design with a hinged lid. It is interchangeable with all current bellow and bucket spill

container designs and utilizes a cast iron base that is bolted to the bellows for strength and durability. The ring is also bolted to the bellows to assure long lasting spill containment and durability.



**Important Note** *Prior to installation read these instructions completely. Check to make sure all parts are included. Do not substitute parts for those provided, unless specified. Failure to properly follow these instructions may result in improper operation of the valve.*

### **Parts List**

1. 146PL below grade spill containment
2. 88-18 Manhole with cast ring

## Instructions

*Read all instructions carefully before beginning installation.*

Before installing the 146PL-containment manhole, coat both the male and female threads with a non-hardening pipe dope that is compatible with the product to be contained.

Install the 146PL by threading onto the tank riser until it is hand tight.

To finish tightening the unit, place a pipe wrench on the bottom external hex and tighten.

The unit is supplied with three bolts anchoring the below grade 149PL to the 88-18 at grade manhole. Height adjustments can be made by moving the bolts up or down on the ring. Once the bolts are adjusted, a riser pipe extension can be used to extend the riser due to settling of the base and stretching of the bellows.

After final grade level has been determined, observe the following instructions:

- The bottom of the run off should be flush with or anywhere up to 1" above grade level.
- As per local construction codes and guidelines, pour pea gravel and concrete in around manhole and let set. Assure concrete is poured such that, the concrete stiffening flange (if available) is embedded in the mixture to strengthen the manhole.

NOTE: Make sure you are accurate when measuring runoff height, because it is crucial to proper surface water drainage.

NOTE: Every unit should be tested for leaks before and after installation. Fill the 146PL below grade completely with water. If the water level drops within one hour, then a leak exists. Check the drain valve for proper seating and re-test. If the unit continues to leak, then replace the entire unit with another and re-test.

After the concrete has been poured, re-test the unit to make sure no damage occurred during installation.

The unit should be tested and inspected every 6 months or more frequently if you are a high volume user or if conditions warrant. Damaged or leaking units should be replaced immediately.

## Model Numbers

Model Number	Description
146PL-1212	5 Gallon Spill Containment
146PL-1512	15 Gallon Spill Containment

## Product Specifications

### Dimensions

Part	Dimension
146PL-1212	5 gal. w/ 18" Grade manhole
146PL-1512	15 gal. w/ 18" Grade manhole

### Material

Part	Material
18"-manhole	Diamond Plated Steel
18" Skirt	12 gauge steel
Spill Containment Body	Cross Linked polyethylene bellows
Spill Containment Manhole	Cast Iron
Spill Containment Cover gasket	Buna-N

## **Warranty Statement**

*All UNIVERSAL products are guaranteed to be free from defects in materials and workmanship. All products are thoroughly tested before shipment and guaranteed to the extent of replacing only products found to be defective in manufacture. We cannot, however, allow claims for labor or consequential damage resulting from purchase, installation or misapplication of our products.*

*Our responsibility ceases when products are accepted by transportation carriers. All goods are at the risk of the purchaser after they have been delivered by us to the carrier and receipt obtained from same (in good order).*

*The right is reserved to make changes in pattern, design or materials when deemed necessary, without prior notice. Products, which have become obsolete by reason of design change or discontinued, as a manufactured item may not be returned for credit.*

**THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AND SPECIFICALLY THE WARRANTIES OF MECHANABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

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