

PREDL INSIDE DROP (MODEL GU300 – supersedes Model GU 370)

PART 1 – GENERAL

1.1 SCOPE

This section specifies the requirement for the design, procurement, and installation of an Inside Drop fitting inside wastewater structures

1.2 PRODUCT

This section covers the following products:

- PREDL INSIDE DROP GU300

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1.3 GENERAL

PREDL inside drop facilitate controlled drop of wastewater flow from the inlet elevation to the outlet elevation for differences of 24” (600mm) or more.

The fitting shall be a one piece rotationally molded HDPE with a removable threaded cap for pipeline inspection purposes.

The fitting comes with a curved mounting flange with gasket for attaching to the inside wall of a sewer manhole riser.

GU-300 product is designed to fit a 42” and 48” manhole diameter. An adapter is required to fit larger manhole sizes

Cleanout / Inspection Cap: Threaded type, which may be modified to serve as a half dam by cutting out a “half – moon” shaped opening in upper half of the cap center.

A stainless steel cable or chain is attached to cap or to one of the threaded wedge anchors to prevent accidental loss of inspection cap after installation.

Advantageous of using PREDL INSIDE DROP FITTING

- reduce turbulence and odor
- reduce H2S emissions
- reduce erosion and corrosion of structure
- corrosion resistance
- increase worker safety by eliminating direct contact between workers and wastewater
- removable screw cap allows for easy inspection and cleaning
- compact profile doesn’t restrict access to manhole

1.4 SUBMITTALS

Contractor is to submit product drawings for Engineer’s approval prior to installation

PART 2 PRODUCTS

2.1 DESIGN CRITERIA

PRODUCT	INSIDE DROP 300
PIPE RANGE*	4” (100mm) to 10” (250mm)
MANHOLE I.D.	42” (1050mm) or 48” (1200mm)
CUSTOM ADAPTER	Flat surface or any other diameter
DOWNWARD SPIGOT	Size: 6” (150mm) or 8” (200mm) Type: SDR26/SDR35

* Pipes SDR35/SDR 26 with PREDL standard bell – if you are using KOR N SEAL maximum hole size is 10.2” (260mm)

2.2 MATERIAL

Fitting Material: Polyethylene Minimum thickness is 0.25" (6mm).

Gasket Material: Polyisoprene

Wire or chain Material: Galvanized wire – vinyl coated

Custom adapter: Polyuria coated EPS

2.3 PRODUCT COMPONENTS

2.3.1 INCLUDED IN THE BOX:

- Inside drop
- Inspection Cap
- Wire or chain
- Flexible gasket
- Custom adapter (Optional – ordered separately)
- Adapter gasket (Optional with Adapter order)

2.3.2 NOT INCLUDED IN THE BOX

- Tools
- Brackets and clamps
- stainless steel wedge anchors / bolts, threaded stainless steel rod, epoxy anchor bond material
- Drop Pipes and elbows

PART 3 – INSTALLATION

3.1 FIELD ASSEMBLY AND INSPECTION

3.1.1 The fitting is anchored to the inside face of the manhole wall using four 0.375 x 5" (9.5 x 127mm)* wedge anchors or threaded anchors with large diameter washers positioned under the nuts. All attaching hardware must be stainless steel Type 316. After installation, there must not be any holes or openings in the drop fitting.

* Please note using longer bolts if you are installing the custom adapter piece

3.1.2 The inlet pipe shall be connected and sealed to the manhole with an appropriate connection. Maximum pipe diameter is as described in section 2.1 of this specification

3.1.3 The vertical pipe shall be fitted with an elbow at the bottom to direct the flow into a manhole base channel and shall be fixed to the manhole wall by means of adjustable stainless steel strapping or otherwise as specified by the Engineer

3.1.4 bolt the inside drop to interior of manhole wall using four 3/8" dia. stainless steel wedge anchors or threaded stainless steel rod / epoxy bonded anchors / four 3/8" dia stainless steel bolt, nut and fender washer assemblies

* Please note using longer bolts if you are installing the custom adapter piece

* If an adapter is required, please install the adapter facing the inside wall of the manhole/structure with the proper provided gasket and then attach the inside drop as described above. Use the same bolt to fix both of them together to the wall

* if you are penetrating in a lined manhole, All mechanical anchor attachments through liner surfaces or pipe riser must be sealed with an elastomeric sealant approved by the "liner manufacturer".

