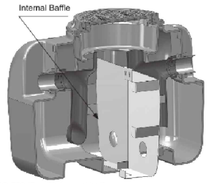
MIFAB BIG MAX® EXTENSIONS AND INTERNAL BAFFLE

BIG MAX® GREASE INTERCEPTORS WITH INTERNAL BAFFLE

Some authorities and jurisdictions require the use of an internal baf e within the grease interceptor. MIFAB® of ers this option (Suf x -IB) for the BIG-750 and BIG-1150 grease interceptors. The Internal baf e is shipped separate from the interceptor and exects to be installed on site.

BIG MAX® Large H.D.P.E. Interceptors



BIG-750-IB - with internal baffle

Extensions: Extensions are typically required when the interceptor is buried into the ground and the inlet is lowered to meet the waste piping from the fixtures. In such a case, the lid needs to be "extended" up to the ground or grade level. With MIFAB™'s patented extension system every lid ships with an 18" x 18" piece of ADS corrugated pipe which provides the installer with up to a 24 1/2" "C" dimension. If a greater "C" dimension is required, the contractor has the option to purchase an extension from MIFAB® or to buy a length of ADS pipe from their local waterworks wholesaler in order to complete the installation immediately. This also means that the cost of the MIFAB® extension (when ordered from a local waterworks wholesaler will be signif cantly less expensive that buying the same height extension system from others). In addition, extensions from others are only available from that specif c manufacturer – resulting in delays and time for production and shipment to the contractor. Flexible extensions make for easier installation where grade may be unlevel.

BIG-1150 Illustrated with the -C extension

ADS pipe gasket illustrated. It is provided as standard with every piece of 18" diameter ADS pipe.

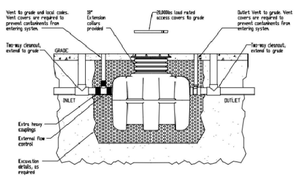
MIFAB® part # DIYCP18-PG for the Big Max gasket (ADS part # 1818AG) and part # DWCP24-PG for the SuperMax gasket (ADS part# 2418AG) The ADS part # for their "18" corrugated pipe is 18N12 the part# for their 24" corrugated pipe is 24N12.

The gasket is assembled onto the ADS pipe – into one of the open grooves at the end of the pipe. The end of the pipe with the gasket is pressed into the top opening off the interceptor.

CALIFORNIA PROPOSITION 65 WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

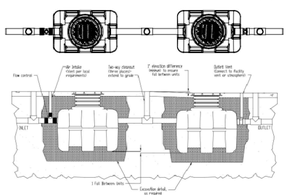
MIFAB — Interceptor Installation & Operation

Typical Below Ground Big Max Installation*



1) Big Max Units come with 18 inches of extension collar. In cases where less than 18 inches is needed the Big Max Collar is designed to be field cut to the desired height. Measure and mark the required height on the extension collar and then cut to the needed height with a Saws All. If more than 18 inches is required additional collar length can be acquired from a local supply house. Simply purchase the required amount of 18 inch diameter ABS pipe and insert into the Big Max. The maximum recommended depth of the collars should be no more than 72".

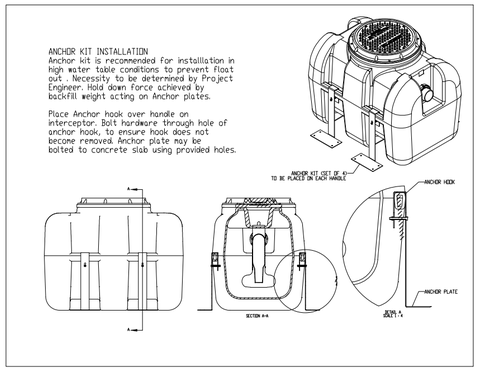
2) Proper venting is important to unit efficacy. Always vent to grade / atmosphere and in compliance to local codes. Vent covers are required to prevent contaminants from entering system.



When combining more than one Big Max Unit in series or parallel always provide a 1 inch fall or change in grade between units.

ANCHOR KIT INSTALLATION
Anchor kit is recommended for installation in high water table conditions to prevent f oat out . Necessity to be determined by Project Engineer. Hold down force achieved by backfill weight acting on Anchor plates.

Place Anchor hook over handle on interceptor. Bolt hardware through hole of anchor hook, to ensure hook does not become removed. Anchor plate may be bolted to concrete slab using provided holes.

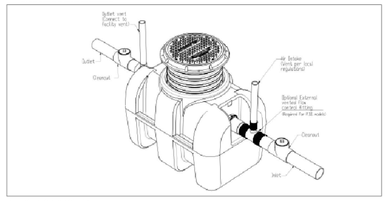


MIFAB — Interceptor Installation & Operation

Below Grade Interceptor Installation Considerations

Venting of the Big Max® interceptor is recommended by MIFAB® and required for indoor installations.

- Vent the Big Max® grease interceptor on the inlet side. It is also recommended to vent the outlet side of the Big Max® grease interceptor right after the outlet. Big Max® solids interceptors do not require the use of an external, vented flow control fitting and should be vented off the inlet and outlet connections.



INTERCEPTOR PLACEMENT
The interceptor should be visible and easily accessible for maintenance and inspection. The Big Max® can be installed in a basement, suspended from a ceiling (with a solid steel plate underneath the entire length and width of the interceptor) or in-ground in an exterior location. Ensure that adequate room is provided around the interceptor to allow easy access for a pump truck operator. Ensure that the height above the Big Max® access cover is enough to properly service the interceptor.

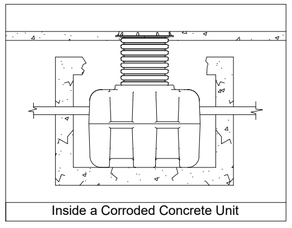
INLET/OUTLET PIPING
The inlet and outlet piping connections require no hub pipe couplings. (See MIFAB®'s MI-HUB Series of no hub couplings). Keep outlet piping as straight as possible. MIFAB® recommends installation of 6" (152 mm) cleanouts on both the Inlet and Outlet of 4" Big Max® Interceptors and Solids Interceptors in accordance with all applicable laws, regulations and codes. Use only "sweep" connections. Do not reduce the pipe sizing on the outlet piping. Do not install a "P" trap on the outlet connection of system. (Note: The system already has an internal gas trap).

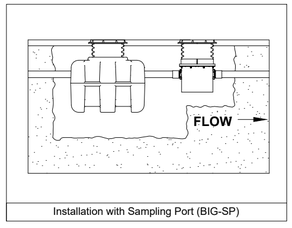
FLOW CONTROLS
Big Max® Interceptors are supplied with a stainless steel calibrated orifice plate (internal flow control). An external, vented, flow control fitting is required to be installed before the inlet of the grease interceptor to meet the P.D.I. G-101 Standard.

VENTING THE OUTLET
An outlet vent or approved air admittance valve of at least 1/2 the diameter of the interceptor's outlet connection must be installed as close as possible to the Big Max® outlet to prevent possible siphonage problems. The vent on the outlet piping is to be installed in accordance with all applicable laws, regulations and codes. Failure to provide a vent for the interceptor voids MIFAB® Warranty for this system.

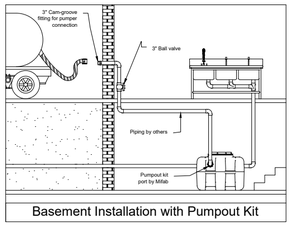
RECOMMENDED EXCAVATION, BACKFILLING, AND FINISHING FOR BIG MAX® INTERCEPTORS
A. Install the interceptor(s) as close as practical to the fixtures being served.
B. The excavation must be a minimum of 12" greater on all sides of the tank.
C. The depth of the excavation must be greater than 6" on the bottom of the interceptor.
D. Fill the interceptor with water prior to backfilling in order to prevent the interceptor from floating.
E. Fully install the double wall corrugated pipe and lid prior to backfilling.
F. Concrete or finishing material requirements is to be determined by the specifying engineer.
G. Encase the interceptor in well-packed ½" rock, or sand.
H. To prevent float out, the Anchor kit is recommended for installations in high water table conditions. This is to be determined by the specifying engineer.

Note: Drawings are for reference only. Equipment must be installed in compliance with all applicable laws, regulations and codes, including plumbing codes. Installation should be done by a licensed plumber.

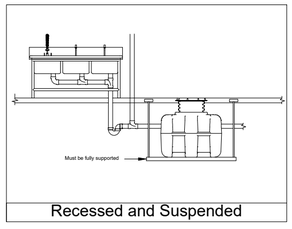

Inside a Corroded Concrete Unit



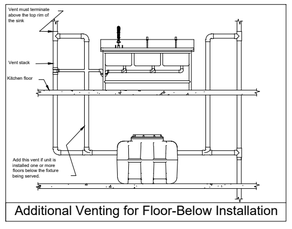
Installation with Sampling Port (BIG-SP)



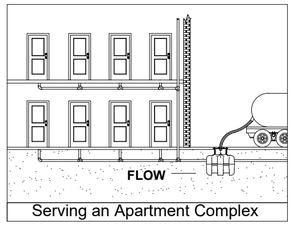
Basement Installation with Pumpout Kit



Recessed and Suspended



Additional Venting for Floor-Below Installation



Serving an Apartment Complex

MIFAB — Interceptor Installation & Operation

Big Max Extension Collar Installation

1) Set the Big Max Unit height to grade by installing the 18" diameter corrugated pipe onto the top opening(s) of the body, then insert the lid on top to measure and adjust the finished height from the top to grade. If less extension is needed, measure the required dimension mark the extension and cut to fit with a Saw. The extension system is ADS pipe and is designed to be field cut as needed. If a longer extension is required to meet grade, new ADS pipe can be purchased and cut to length in order to equal grade.

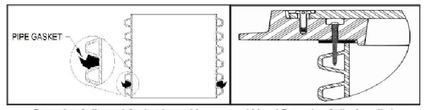
2) Install the Pipe Gasket onto the bottom of the pipe as shown. Then firmly press the 18" diameter pipe into the top opening(s) of the interceptor. It will bottom out at the pipe stop. The Gasket is designed to fit tightly around the extension collar, Prying the gasket into place with a pry tool can save time and make this process easier.

3) Insert the extension collar and pipe gasket onto the opening of the Big Max. Press firmly until the extension is seated inside provided recessed channel. The Big Max is designed to fit tightly, and installation can be made easier by wetting the receiving area with mild soapy water. This will reduce the friction and allow the extension to side more easily into place.

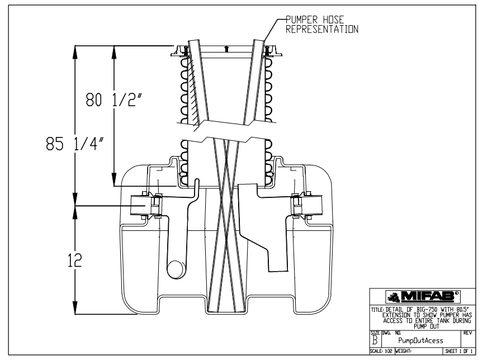
4) Remove the cover from the lid assembly and this will expose predrilled screw holes. Affix the lid gasket with the self adhesive onto the underside of the collar. Place lid assembly onto the top of the corrugated pipe. Connect the lid assembly collar to the pipe with the 6 self tapping screws into the countersunk holes. Replace lid back onto the lid assembly collar.

5) When installing the collar on concrete roads, an 8 inch-width concrete ring beam with a 16 inch-width guard circle around it should be poured between the collar and brick setting to make the surrounding compaction level and unmovable.

6) When installing the collar on a bituminous road, the collar must be installed AFTER the road is paved. Roller compaction by construction equipment around the collar must be avoided. A hole that is slightly larger than the collar should be inserted before pouring the pavement. The reserved hole can help ensure the installation quality and prolong the usefulness of the installation.



Extension Collar and Gasket Assembly — Lid and Extension Collar Installation



SYSTEM SPECIFICATIONS

1. 4" No-hub inlet/outlet
2. Max flow rate: 75gpm
3. Liquid capacity: 140 gal.
4. Max grease capacity: 1306 lbs. Grease capacity based off 99% efficiency per Miami Derm FOG 2.0 requirement.
5. H-20 rated access covers
6. Maximum operating temperature 180° F
7. Meets the PH of 3-10 per DERM Miami-Dade

Notes:

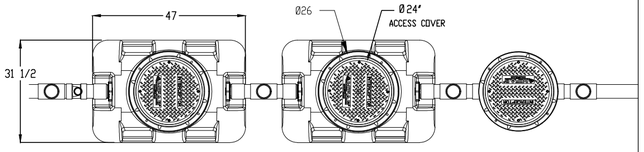
1. Each grease interceptor is certifed and listed by IAPMO to ASME A112.14.3, P.D.I. G-101, and CSA B481.1 grease interceptor standards
2. Flow control to be installed in first unit only. Internal flow control ASME A112.14.3 tested interceptors and external vented flow control for P.D.I. G-101 tested units. MIFAB has both approvals.
3. For gravity drainage application only. (Due not use for pressure application)
4. 3/8" thick high density polyethylene walls
5. Unit supplied with 18" corrugated pipe, 18" pipe gasket, and H-20 rated access covers
6. Cover placement allows full access to tank for proper maintenance.
7. Vent system per local codes.
8. Designed narrow footprint(33 1/2" wide) allows clearance through doorways and down stairwells.
9. For buried applications.
10. Locate interceptor as close as possible to grease producing fixtures
11. Unique Enviro-Flow inlet trap design

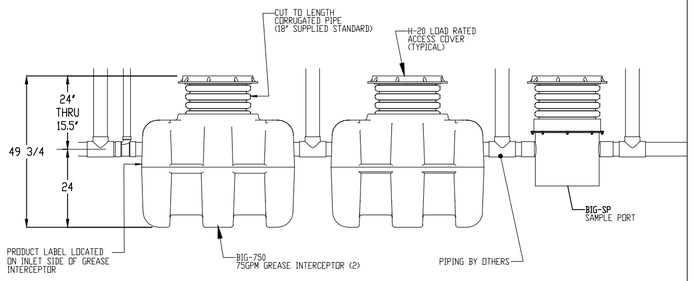
Enviro-Flow

The enviro-flow design directs incoming wastewater sideways for more efficient laminar flow and separation.

Options:

Corrugated pipe connections
High water anchor kit (set of 2)
Male pipe threaded
6" pipe connections
High level alarm monitoring system





MIFAB®
TITLE: MULTI-UNIT GREASE INTERCEPTOR SYSTEM LAYOUT DETAIL FOR 99% GREASE EFFICIENCY
SIZE C | DWG. NO. BIG-750-2-SP | REV
SCALE: 1/2 | WEIGHT: | SHEET 1 OF 1

MIFAB®
TITLE: 75GPM HDPE GREASE INTERCEPTOR
SIZE C | DWG. NO. BIG-750 | REV
SCALE: 1:11 | WEIGHT: | SHEET 1 OF 1

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MIFAB, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF MIFAB, INC. IS PROHIBITED.