

## SYSTEM SPECIFICATIONS

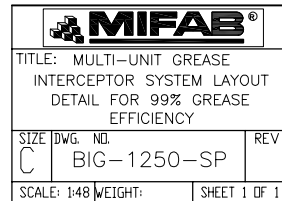
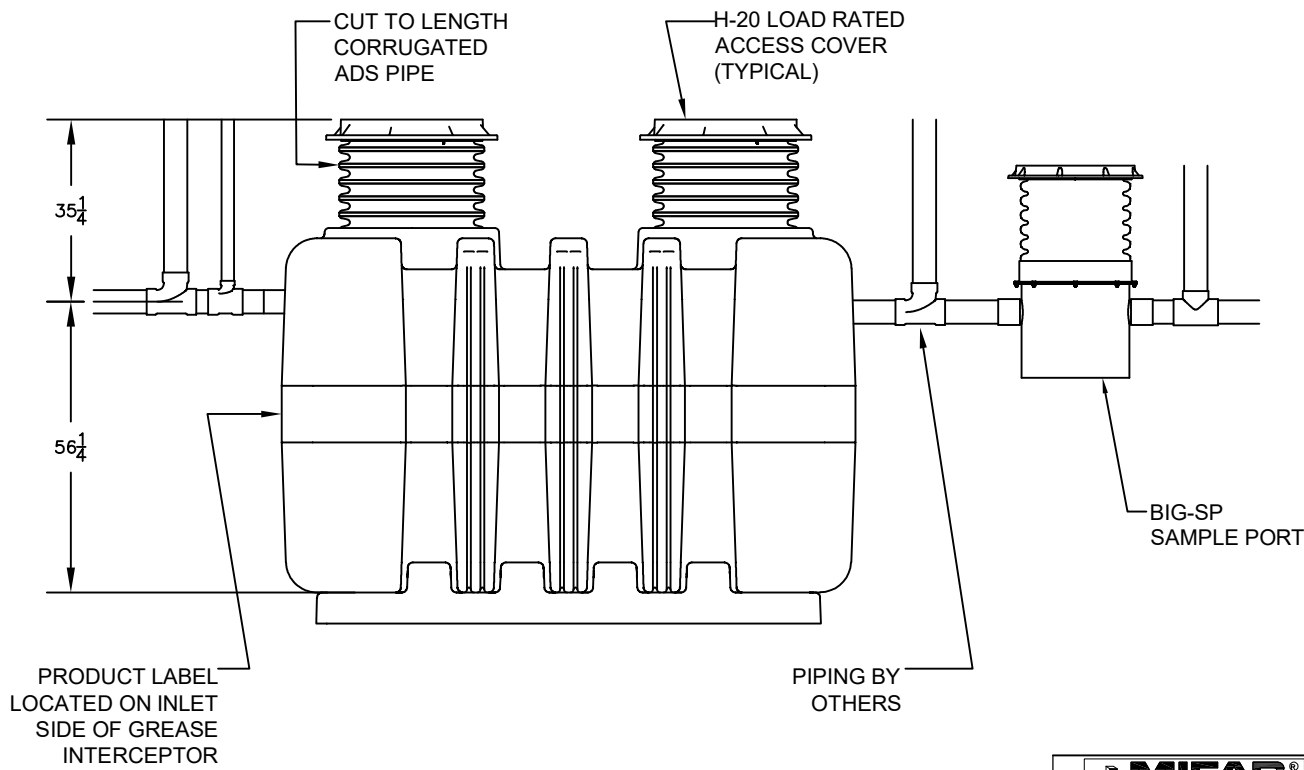
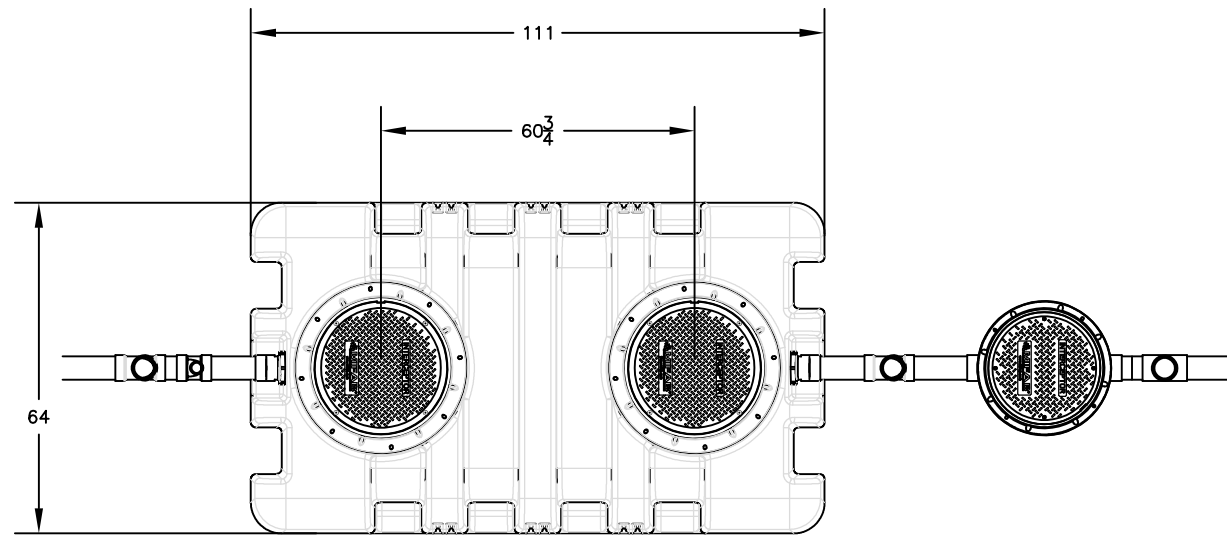
1. 4" No-hub inlet/outlet
2. Max flow rate: 250gpm
3. Liquid capacity: 1262 gal.
4. Max grease capacity: 1,999.38 lbs.  
Grease capacity based off 99% efficiency per Miami Derm FOG 2.0 requirement
5. H-20 rated access covers
6. Maximum operating temperature 180° F
7. Meets the PH of 3-10 per DERM Miami-Dade

## Notes:

1. Each grease interceptor is certified and listed by IAPMO to ASME A112.14.3, P.D.I G-101, and CSA B481.1 grease interceptor standards
2. For gravity drainage application only.  
(Due not use for pressure application)
3. 3/8" thick high density polyethylene walls
4. Unit supplied with 24" corrugated pipe, 24" pipe gasket, and H-20 rated access covers
5. Cover placement allows full access to tank for proper maintenance.
6. Vent system per local codes.
7. For buried applications.
8. Locate interceptor as close as possible to grease producing fixtures

## Options:

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



## APPENDIX 5

## GREASE PRODUCTION SIZING METHOD

## GREASE PRODUCTION SIZING METHOD:

Some industry people believe that sizing grease interceptors based on the amount of grease that is produced in a restaurant or kitchen makes a lot more sense than sizing based on flow rate of water and / or drainage fixture units going into the grease interceptor. This can be done first by flow rate and then by grease capacity for pump-out cycle. Note that local codes and ordinances should be followed for compliance. For example, a Chinese restaurant with a 4" drain line can be sized to require a grease interceptor with a 50 GPM flow rate. A Subway deli with a 4" drain line can also be sized to require a grease interceptor with a 50 GPM flow rate. Therefore, two restaurants with very different meal types and production of grease can end up having the same code compliant grease interceptor sized.

The following information and sizing chart can be used to size grease interceptors based on the grease produced in a variety of different restaurants. Note that local codes and ordinances should be followed for compliance.

## Step 1: Size by Pipe Diameter / Flow Rate:

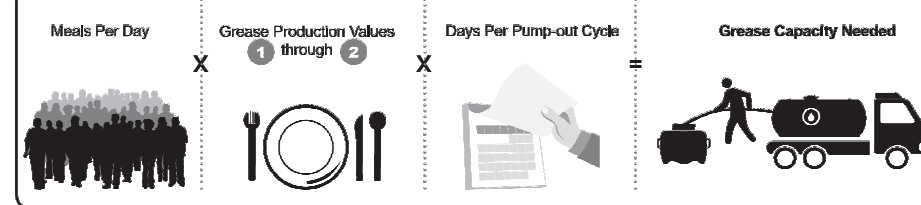
Hydromechanical Grease Interceptor Sizing Using Gravity Flow Rates (Per Chapter 10 of the Uniform Plumbing Code)

Diameter of Grease Waste Pipe	Maximum Full Pipe Flow*	Size of Grease Interceptor	
		One-minute Drainage Period	Two-minute Drainage Period
2"	20 GPM	30 GPM	10 GPM
3"	60 GPM	75 GPM	35 GPM
4"	125 GPM	150 GPM	75 GPM
5"	230 GPM	250 GPM	125 GPM
6"	315 GPM	300 GPM	250 GPM

\*1/4 inch slope per foot (20.8mm/m) based on Manning's formula with friction factor N = 0.012.

Recommended

## Step 2: Calculate grease capacity



Restaurant Type	Grease Production Values	Grease Production Sizing Method
Low Grease Production	① 0.005 lbs / meal (no flatware)	Frozen yogurt, hotel breakfast bar, sub shop, sushi, convenience store, deli, bar, restaurant.
	② 0.0065 lbs / meal (with flatware)	
Medium Grease Production	③ 0.025 lbs / meal (no flatware)	Cafes, low grease output restaurants, pizza restaurant, grocery stores (with no fryer), ice cream parlor.
	⑤ 0.0325 lbs / meal (with flatware)	
High Grease Production	④ 0.035 lbs / meal (no flatware)	Full fare family restaurants, fast food hamburger, barbecue, Italian and fast food Mexican, school cafeterias, steakhouses, bakery, Chinese buffet, seafood, fried chicken, grocery stores with fryer.
	⑥ 0.0455 lbs / meal (with flatware)	

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Li Max BIG MAX CoreMax

INT-2020

## GREASE INTERCEPTOR CAPACITY DATA

Model No.	Flow Rate (GPM)	Liquid Cap. (Gal)	Grease Design Cap. (Lbs)	Sediment Cap. (Gal)
LIL-7	7	5.8	37	2.0
LIL-10	10	8.5	42	2.0
LIL-15	15	13	50	3.1
LIL-20	20	18	73	3.9
LIL-25	25	23	79	5.8
LIL-30	30	28	88	10.6
LIL-50	50	44	109	11.9
LIL-25-LP	25	19	74	11.9
BIG-750	75	140	501	42
BIG-1150	100	200	1206	115
SUPER-500	250	539	3402	93
SUPER-750	250	772	5002	77
SUPER-1000	250	1015	8577	102
SUPER-1250	250	1260	8177	126
SUPER-1500	250	1512	8501	151
SUPER-1500	250	1502	9902	150
SUPER-2000	250	2022	13102	202

Capacities listed are for reference. Many external circumstances can have an effect on the data provided.

PUMP OUT CYCLE	MEALS PER DAY	GREASE PRODUCTION VALUES							
		1 0.005 lbs/meal	2 0.0065 lbs/meal	3 0.025 lbs/meal	4 0.0325 lbs/meal	5 0.035 lbs/meal	6 0.0455 lbs/meal	7 0.058 lbs/meal	8 0.075 lbs/meal
30	250	LIL-7	LIL-15	BIG-750	BIG-750	BIG-750	BIG-750	BIG-750	BIG-750
	500	LIL-20	LIL-50	BIG-750	BIG-750	BIG-750	BIG-1150	BIG-1150	BIG-1150
	750	LIL-50	BIG-750	BIG-1150	BIG-1150	BIG-1150	BIG-1150	BIG-1150	BIG-1150
	1000	BIG-750	BIG-750	BIG-1150	BIG-1150	BIG-1150	BIG-1150	SUPER-500	SUPER-500

PUMP OUT CYCLE	MEALS PER DAY	GREASE PRODUCTION VALUES							
		1 0.005 lbs/meal	2 0.0065 lbs/meal	3 0.025 lbs/meal	4 0.0325 lbs/meal	5 0.035 lbs/meal	6 0.0455 lbs/meal	7 0.058 lbs/meal	8 0.075 lbs/meal
60	250	LIL-25	LIL-50	BIG-750	BIG-750	BIG-750	BIG-1150	BIG-1150	BIG-1150
	500	BIG-750	BIG-750	BIG-1150	BIG-1150	BIG-1150	BIG-1150	BIG-1150	SUPER-500
	750	BIG-750	BIG-750	BIG-1150	BIG-1150	BIG-1150	SUPER-500	SUPER-500	SUPER-500
	1000	BIG-750	BIG-750	BIG-1150	BIG-1150	SUPER-500	SUPER-500	SUPER-500	SUPER-750

PUMP OUT CYCLE	MEALS PER DAY	GREASE PRODUCTION VALUES							
		1 0.005 lbs/meal	2 0.0065 lbs/meal	3 0.025 lbs/meal	4 0.0325 lbs/meal	5 0.035 lbs/meal	6 0.0455 lbs/meal	7 0.058 lbs/meal	8 0.075 lbs/meal
90	250	LIL-50	BIG-750	BIG-750	BIG-1150	BIG-1150	BIG-1150	BIG-1150	SUPER-500
	500	BIG-750	BIG-750	BIG-1150	BIG-1150	BIG-1150	SUPER-500	SUPER-500	SUPER-500
	750	BIG-750	BIG-750	SUPER-500	SUPER-500	SUPER-500	SUPER-750	SUPER-750	SUPER-750
	1000	BIG-750	BIG-750	SUPER-500	SUPER-500	SUPER-500	SUPER-1000	SUPER-1000	SUPER-1000

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TITLE:  
250GPM HDPE GREASE INTERCEPTOR

SIZE DWG. NO.

C SUPER-1250

SCALE: 1:11

WEIGHT:

SHEET 1 OF 1

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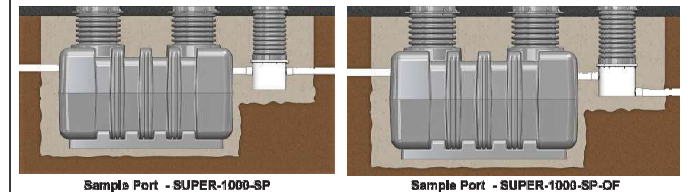


## INTERCEPTOR - BELOW GRADE

## 5) SAMPLE PORT INSTALLATION -

MIFAB's patented extension system uses standard ADS 18N12 pipe. If less than 24 inches is needed, cut to the desired height. Measure and mark the required height on the extension collar then cut to the marked height with a Saw All (see page 12 of this manual). If more than 24 inches is required, additional collar length can be acquired from a local supply house. Simply purchase the required amount of 18 inch diameter ADS pipe and insert into the SUPERMAX®. The maximum recommended depth of the collars should be no more than 72".

NOTE: Sample Port must be placed on a suitable base of compacted soil or undisturbed earth in traffic condition.

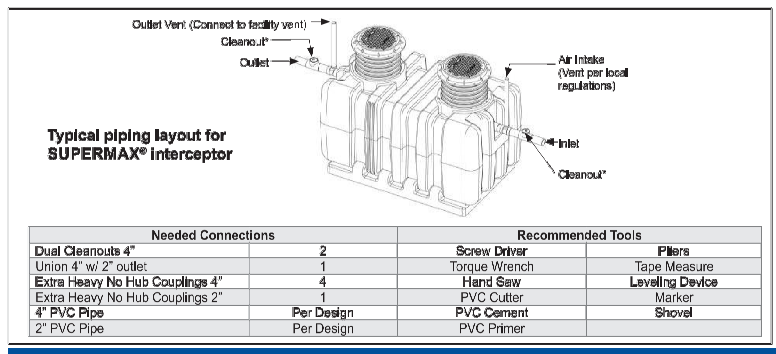


## 6) RECOMMENDED EXCAVATION, BACKFILLING, AND FINISHING

- Install the interceptor(s) as close as practical to the fixtures being served.
- The excavation must be a minimum of 18" greater on all sides of the tank.
- The depth of the excavation must be greater than 12" on the bottom of the interceptor.
- Fill the interceptor with water prior to backfilling in water to prevent the interceptor from floating.
- Fully install the double wall corrugated pipe and lid prior to backfilling.
- Concrete or finishing material requirements are to be determined by the specifying engineer.
- Excuse the interceptor in well-packed 3/4" rock, or sand. Do not compact backfill around the interceptor.
- 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.

## 7) SUPERMAX® CONFIGURATION/TOOLS/CONNECTIONS

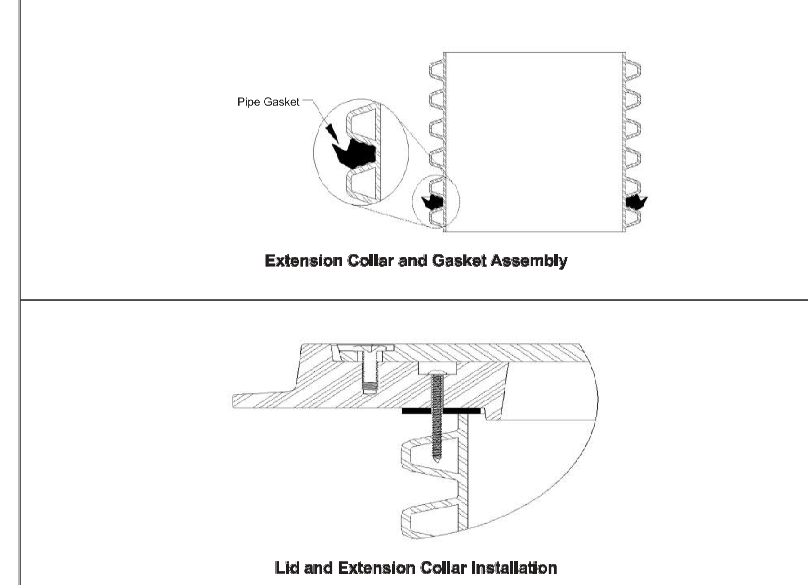
Following are two typical SUPERMAX® typical interceptor layouts, with materials and recommended tools required for installation.



## EXTENSION COLLAR

- MIFAB's patent extension system uses standard ADS 24N12 pipe. The contractor has to purchase it from MIFAB or buy a length of ADS pipe from their local waterworks wholesaler in order to complete the installation. The maximum recommended depth of the collars should be no more than 72".
- Install the Pipe Gasket onto the bottom of the pipe as shown. Then firmly press the 24" 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.
- Insert the extension collar and pipe gasket onto the opening of the SUPERMAX®. Press firmly until the extension is seated inside provided recessed channel. Both the SUPERMAX® are 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 slide more easily into place.
- 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.

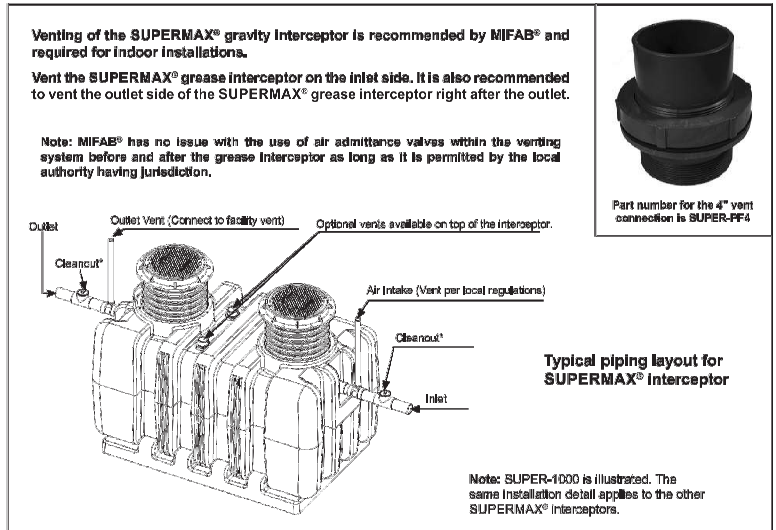
To view an ADA extension preparation and installation video, go to:



## INTERCEPTOR - BELOW GRADE

The SUPERMAX® gravity Interceptor may be installed as a stand alone unit, or in any number of different combinations to properly service the application. Different combinations are shown in Appendix 7, on page 23.

- FLOW CONTROLS** - Each MIFAB® SUPERMAX® Interceptor is supplied with a factory sized internal flow control for each size unit, available. The flow control is an important component to ensure the proper operation and efficiency of the unit. Installation is accomplished using properly sized Extra Heavy Duty No Hub shielded couplings for any outdoor installation. NOTE: For the SUPER-500 model, interceptors are supplied with 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 for the SUPER-500 model.
- INLET/OUTLET PIPING** - The inlet and outlet piping connections require no hub pipe couplings (see MIFAB's M-HUB Series of no hub couplings). Keep outlet piping as straight as possible. MIFAB® recommends installation of SUPERMAX® interceptors and solids interceptors in accordance with all applicable laws, regulations and codes. Use only "sweep" connections. Do not install a "P" trap on the outlet connection of system as the system already has an internal gas trap.
- MULTIPLE UNITS** - When combining more than one grease interceptor or solids interceptor in series or parallel, always provide a 1 inch fall or change in grade between units.
- VENTING** - Venting of the SUPERMAX® gravity interceptor is recommended by MIFAB® and required for indoor installations. Vent the SUPERMAX® grease interceptor on the inlet side. It is also recommended to vent the outlet side of the SUPERMAX® grease interceptor right after 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 SUPERMAX® 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 venting for the interceptor voids MIFAB's warranty for the system.



## INTERCEPTOR - ABOVE GRADE

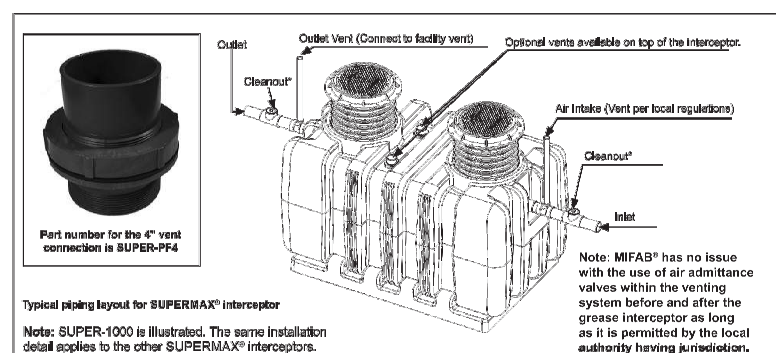
The SUPERMAX® gravity Interceptor may be installed as a stand alone unit, or in any number of different combinations to properly service the application. Different combinations are shown in Appendix 7, on page 23.

- PLACEMENT** - All SUPERMAX® interceptors can be installed above grade. The HDPE ribbed construction allows these interceptors to be placed on an engineered approved, load compliant and level surface. Under normal use, SUPERMAX® interceptors will require no additional support to maintain full functionality. Seismic ratings and needs should be determined by a design engineer and based on established codes. The Interceptor should be placed in a visible and easily accessible area for maintenance, cleaning, and inspection. Allowing space for the service provider to properly clean the vessel is a key consideration.
- SET IN PLACE** - MIFAB® interceptors should be set in place by the installer. The installer should ensure the padstone is level and load rate compliant. The interceptor should be plumbed as instructed below in accordance with all required codes.
- FLOW CONTROLS** - Each MIFAB® SUPERMAX® Interceptor is supplied with a factory sized internal flow control for each size unit available. The flow control is an important component to ensure the proper operation and efficiency of the unit. Installation is accomplished using properly sized "flexible" couplings for above ground indoor installation (or Extra Heavy Duty No Hub shielded couplings for any outdoor installation.)
- INLET/OUTLET PIPING** - The inlet and outlet piping connections require no hub pipe couplings (see MIFAB's M-HUB Series of no hub couplings). Keep outlet piping as straight as possible. MIFAB® recommends installation of SUPERMAX® interceptors and solids interceptors in accordance with all applicable laws, regulations and codes. Use only "sweep" connections.

Do not install a "P" trap on the outlet connection of system as the system already has an internal gas trap.

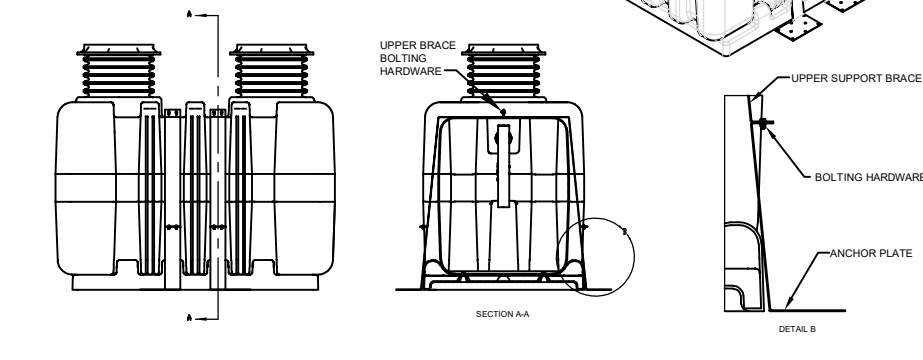
- MULTIPLE UNITS** - When combining more than one grease interceptor or solids interceptor in series or parallel, always provide a 1 inch fall or change in grade between units.

- PIPE SUPPORTS** - Pipe supports should be located every 16 inches on all vertical and horizontal piping. Allow for expansion as per local and national code.
- VENTING** - Venting of the SUPERMAX® gravity interceptor is recommended by MIFAB® and required for indoor installations. Vent the SUPERMAX® grease interceptor on the inlet side. It is also recommended to vent the outlet side of the SUPERMAX® grease interceptor right after 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 SUPERMAX® 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's warranty for the system.

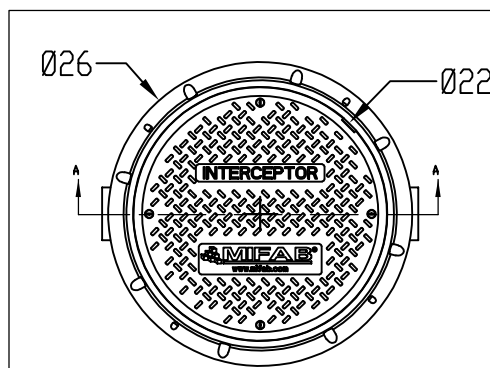


**ANCHOR KIT INSTALLATION**  
ANCHOR KIT IS RECOMMENDED FOR INSTALLATION IN HIGH WATER TABLE CONDITIONS TO PREVENT FLOAT OUT. NECESSITY TO BE DETERMINED BY PROJECT ENGINEER. HOLD DOWN FORCE ACHIEVED BY BACKFILL WEIGHT ACTING ON ANCHOR PLATES.

BOLT UPPER SUPPORT BRACE TOGETHER, THEN PLACE OVER CENTER CHANNEL. BOLT THE ANCHOR PLATE AND UPPER SUPPORT BRACE TOGETHER USING BOLTING HARDWARE. ANCHOR PLATE MAY BE BOLTED TO CONCRETE SLAB USING PROVIDED HOLES.



## BIG-SP/-L/-OF - BIG MAX HDPE SAMPLING PORT 36" HEIGHT WITH H-20 LID



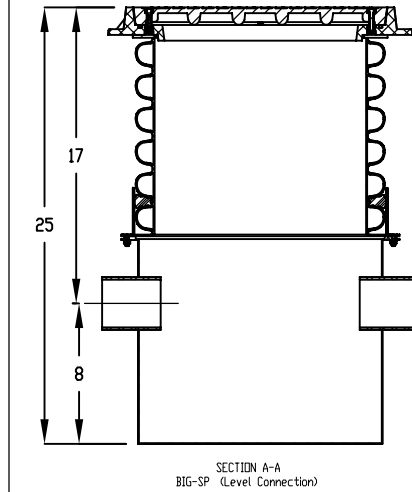
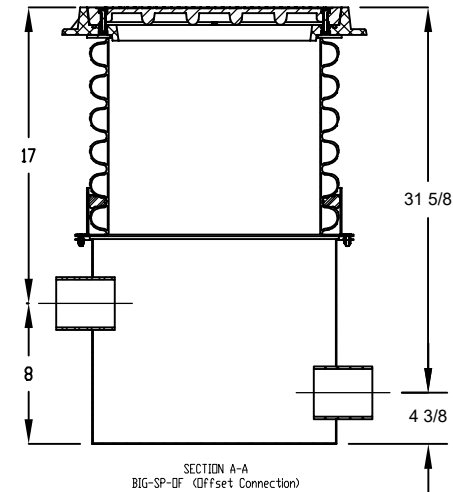
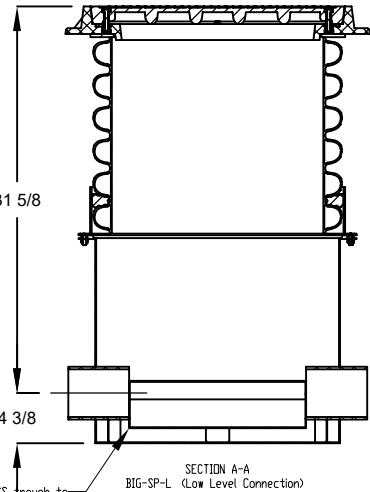
## SPECIFICATIONS

## NOTES

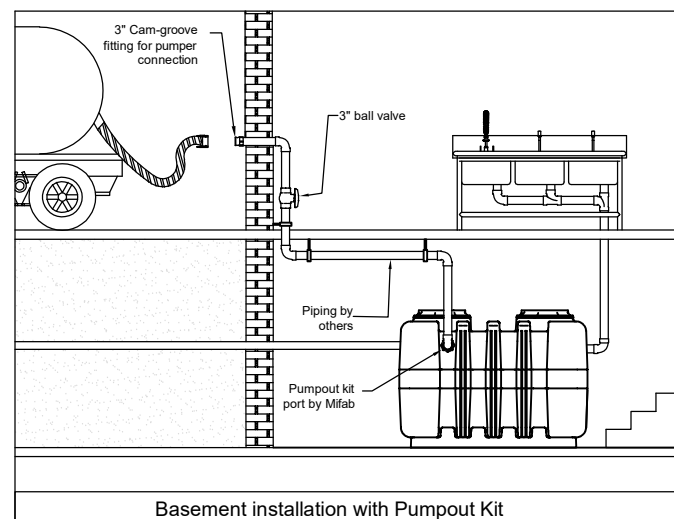
- 4" no-hub connection for inlet/outlet.
- Unit weight total-125lbs.
- Unit supplied with H-20 load rated access cover, 18" corrugated pipe, and sealing gasket.
- Maximum operating temperature 180° F continuous.
- Unit for below ground application -30° for direct connect lid in above ground application.

## ENGINEER SPECIFICATION GUIDE

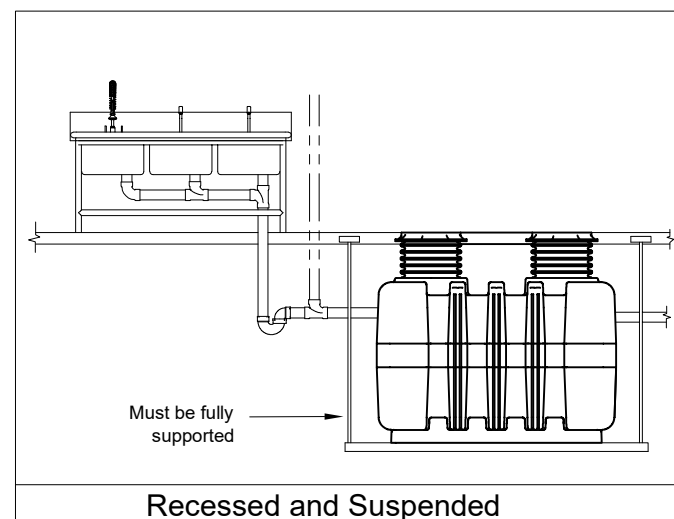
MIFAB sampling port models BIG-SP, BIG-SP-OF, and BIG-SP-L are made in the USA of molded polyethylene.

SECTION A-A  
BIG-SP Level ConnectionSECTION A-A  
BIG-SP-OF G/Fast ConnectionSECTION A-A  
BIG-SP-L Low Level Connection

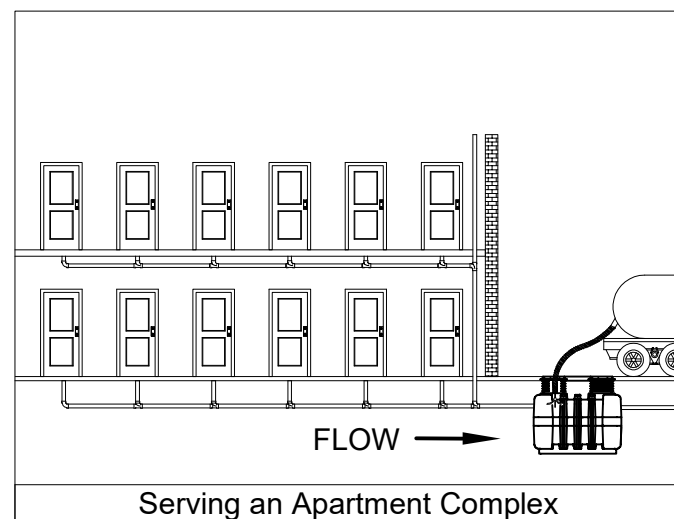
Fabricated SS trough to retrofit waste water sample as effluent is flowing



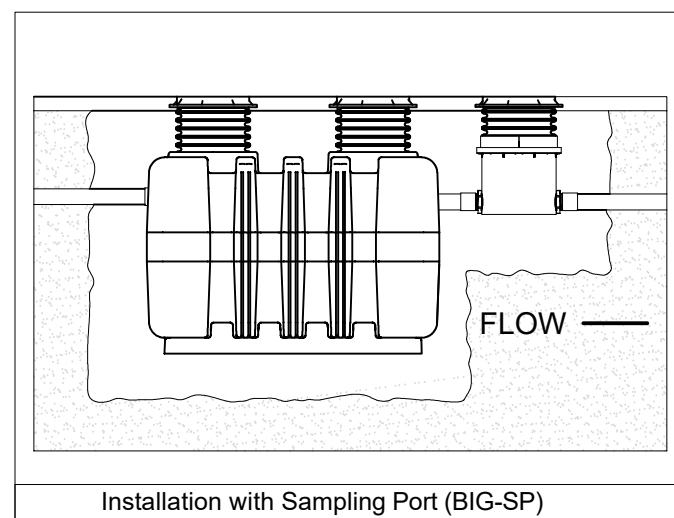
Basement installation with Pumpout Kit



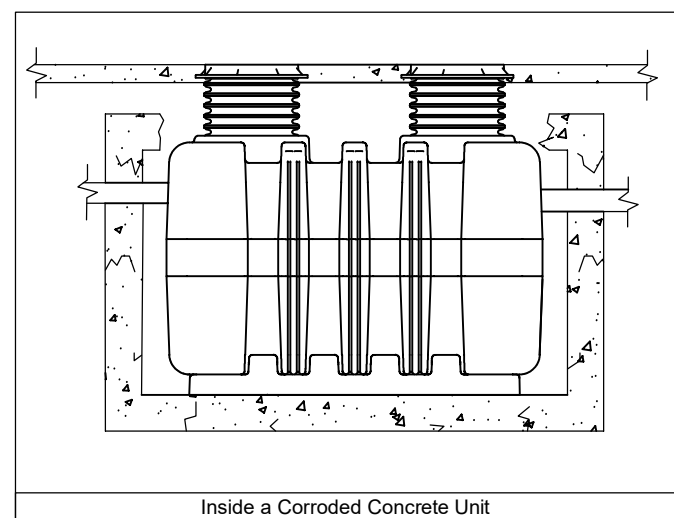
Recessed and Suspended



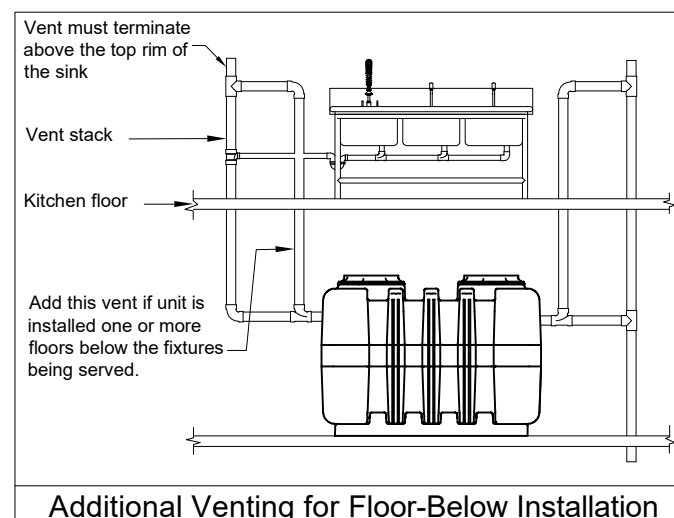
Serving an Apartment Complex



Installation with Sampling Port (BIG-SP)



Inside a Corroded Concrete Unit



Additional Venting for Floor-Below Installation

TITLE:

250GPM HDPE GREASE INTERCEPTOR

SIZE DWG. NO.

SUPER-1250

REV

SCALE: 1:11

WEIGHT:

SHEET 1 OF 1

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