

### MIFAB® 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 rate of water and / or drainage units going into the grease interceptor. This can be done by 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 rate. A Subway deli with a 4" drain line can also be sized to require a grease interceptor with a 50 GPM 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 restaurant types.

*"I buy MIFAB HDPE grease interceptors for one reason, the local rep. It is the ability to get my questions answered quickly. The local knowledge is a great resource."*  
 - Mark Gomez, Manager, H2O Service, Louisville, KY

#### 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	20 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"	375 GPM	500 GPM	250 GPM

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

#### Step 2: Calculate grease capacity

Meals Per Day x Grease Production Values through Days Per Pump-out Cycle = Grease Capacity Needed

Restaurant Type	Grease Production Values	Grease Production Sizing Method
Low Grease Production	1, 2	Frozen yogurt, hotel breakfast bar, sub shop, sushi, convenience store, deli, bar, residential
Medium Grease Production	3, 4	Cafes, low grease output restaurants, pizza restaurant, grocery stores (with no fryer), ice cream parlor.
High Grease Production	5, 6	Full fare family, German, Italian, fast food Mexican, hamburger bar and grill and fast food hamburger, Medium level restaurants with a fryer.
Very High Grease Production	7, 8	Full fare BBQ, fast food fried chicken, full fare Mexican, Steak and Seafood, Hawaiian, Chinese

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### SYSTEM SPECIFICATIONS

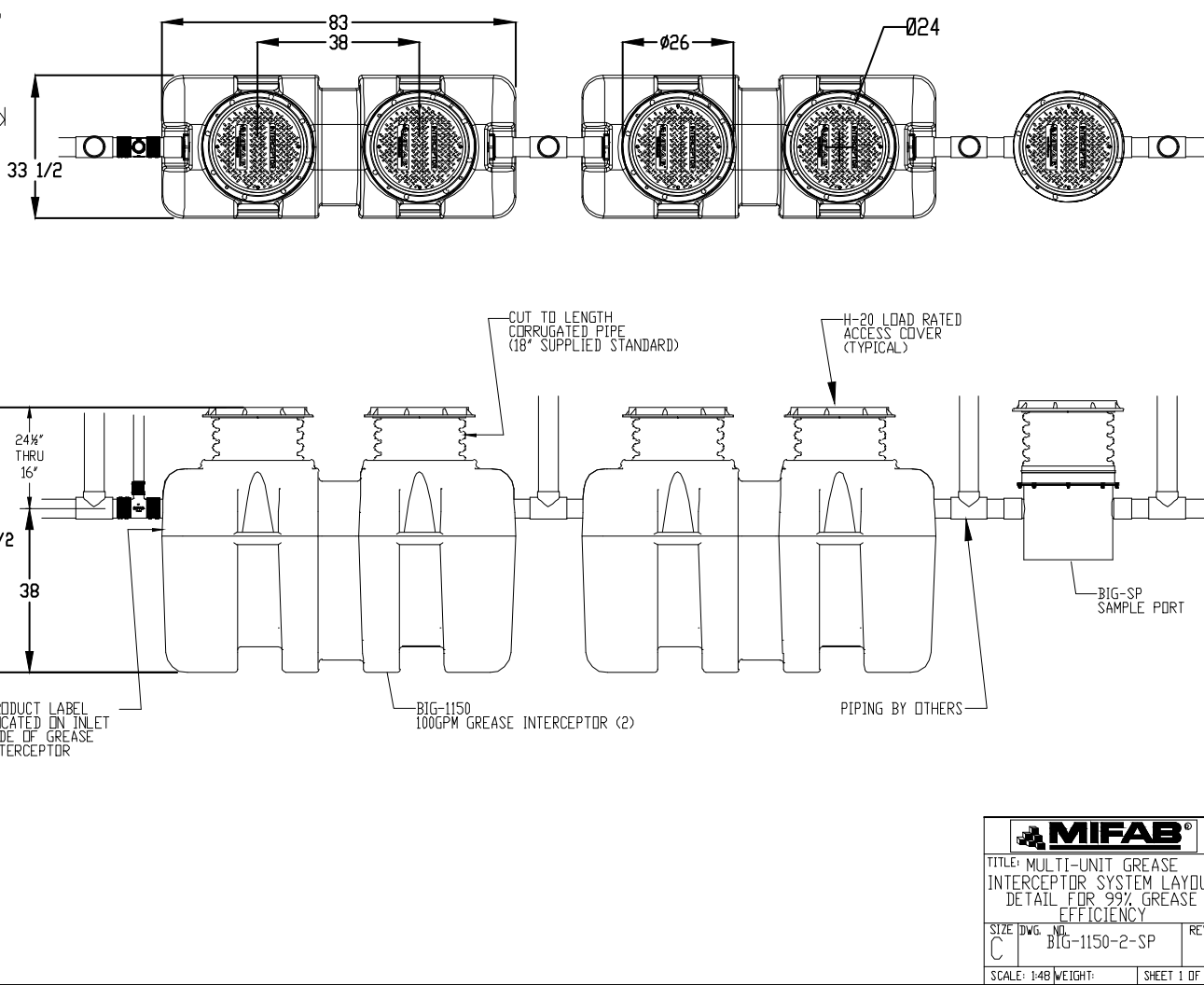
- 4" No-hub inlet/outlet
- Max flow rate: 100gpm
- Liquid capacity: 300 gal.
- Max grease capacity: 2178 lbs.  
Grease capacity based off 99% efficiency per Miami Derm FOG 2.0 requirement
- H-20 rated access covers
- Maximum operating temperature 180° F
- Meets the PH of 3-10 per DERM Miami-Dade

#### Notes:

- Each grease interceptor is certified and listed by IAPMD to ASME A112.14.3, PDI G-101, and CSA B481.1 grease interceptor standards
- Flow control to be installed in first unit only. Internal flow control for ASME tested interceptors and external vented flow control for PDI-G101 tested units. MIFAB has both approvals.
- For gravity drainage application only. (Due not use for pressure application)
- 3/8" thick high density polyethylene walls
- Unit supplied with 18" corrugated pipe, 18" pipe gasket, and H-20 rated access covers
- Cover placement allows full access to tank for proper maintenance.
- Vent system per local codes.
- Designed narrow footprint(33 1/2") allows clearance through doorways and down stairwells.
- For buried applications.
- Locate interceptor as close as possible to grease producing fixtures
- 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® 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	16	73	3.9
LIL-25	25	23	79	5.6
LIL-35	35	39	86	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	300	1556	115
SUPER-500	250	539	3492	53
SUPER-750	250	772	5002	77
SUPER-1000	250	1015	6577	102
SUPER-1250	250	1262	8177	126
SUPER-1300	250	1312	8501	131
SUPER-1500	250	1522	9862	152
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
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	SUPER-500	SUPER-500	SUPER-500	SUPER-500	SUPER-750
90	250	LIL-50	BIG-750	BIG-1150	BIG-1150	BIG-1150	SUPER-500	SUPER-500	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-500	SUPER-750	SUPER-750
	1000	BIG-750	BIG-750	SUPER-500	SUPER-500	SUPER-500	SUPER-750	SUPER-1000	SUPER-1000

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#### STANDARD ASME A112.14.3 GREASE INTERCEPTOR RATING TEST FORM

PAGE 3 OF 4

No.	Test	Clear	Second	Ratio: GPM	INCREMENTAL			ACCUMULATED				
					lb. Added	lb. 60mm	lb. Retained	Efficiency	lb. Added	lb. 60mm	lb. Retained	Efficiency
72	2	1	111.82	102.1	20.00	0.20	19.80	99.0	1440.00	8.79	1431.24	99.4
73	1	2	112.83	101.2	20.00	0.21	19.79	99.0	1480.00	9.19	1470.81	99.4
74	2	1	108.34	104.3	20.00	0.22	19.78	98.9	1480.00	9.19	1470.81	99.4
75	1	2	110.34	103.3	20.00	0.21	19.79	99.0	1500.00	9.40	1490.60	99.4
76	2	1	112.84	101.0	20.00	0.21	19.79	98.9	1520.00	9.61	1510.39	99.4
77	1	2	113.82	100.3	20.00	0.22	19.78	98.9	1540.00	9.83	1530.17	99.4
78	2	1	109.53	104.1	20.00	0.24	19.76	98.8	1580.00	10.07	1569.93	99.4
79	1	2	108.90	104.7	20.00	0.30	19.70	98.6	1680.00	10.37	1669.63	99.3
80	2	1	113.16	100.7	20.00	0.22	19.78	98.9	1600.00	10.60	1589.40	99.3
81	1	2	108.78	104.8	20.00	0.23	19.77	98.9	1620.00	10.83	1609.17	99.3
82	2	1	110.78	102.9	20.00	0.23	19.77	98.9	1640.00	11.05	1628.95	99.3
83	1	2	108.91	103.7	20.00	0.23	19.77	98.8	1680.00	11.29	1668.71	99.3
84	2	1	108.86	104.9	20.00	0.25	19.75	98.8	1680.00	11.54	1688.46	99.3
85	1	2	108.50	104.1	20.00	0.25	19.75	98.8	1700.00	11.78	1688.22	99.3
86	2	1	108.66	105.0	20.00	0.26	19.74	98.7	1720.00	12.04	1707.96	99.3
87	1	2	108.26	104.3	20.00	0.28	19.72	98.6	1740.00	12.31	1727.69	99.3
88	2	1	108.79	103.8	20.00	0.30	19.70	98.6	1780.00	12.61	1747.39	99.3
89	1	2	108.68	103.9	20.00	0.28	19.74	98.7	1780.00	12.87	1767.13	99.3
90	2	1	110.63	103.1	20.00	0.27	19.73	98.8	1800.00	13.14	1786.86	99.3
91	1	2	108.64	103.7	20.00	0.30	19.70	98.6	1820.00	13.44	1806.56	99.3
92	2	1	108.66	105.0	20.00	0.31	19.69	98.6	1840.00	13.76	1826.25	99.3
93	1	2	108.79	104.8	20.00	0.35	19.65	98.3	1890.00	14.10	1845.90	99.2
94	2	1	111.87	101.8	20.00	0.34	19.66	98.3	1890.00	14.44	1865.56	99.2
95	1	2	108.25	104.3	20.00	0.37	19.63	98.1	1900.00	14.81	1885.19	99.2
96	2	1	108.93	103.7	20.00	0.42	19.58	97.9	1920.00	15.24	1904.76	99.2
97	1	2	108.54	105.0	20.00	0.31	19.69	98.5	1940.00	15.54	1924.46	99.2
98	2	1	108.19	104.4	20.00	0.37	19.63	98.2	1980.00	15.91	1944.09	99.2
99	1	2	108.84	104.7	20.00	0.34	19.66	98.3	1980.00	16.26	1963.74	99.2
100	2	1	108.97	103.7	20.00	0.40	19.60	98.0	2000.00	16.66	1983.34	99.2
101	1	2	108.54	105.0	20.00	0.40	19.60	98.0	2020.00	17.06	2002.94	99.2
102	2	1	113.93	101.0	20.00	0.38	19.62	98.1	2040.00	17.44	2022.56	99.1
103	1	2	108.56	105.0	20.00	0.38	19.61	98.0	2080.00	17.83	2042.17	99.1
104	2	1	110.93	102.8	20.00	0.47	19.53	97.8	2080.00	18.31	2061.69	99.1
105	1	2	108.62	105.0	20.00	0.42	19.58	97.9	2100.00	18.73	2081.27	99.1
106	2	1	110.97	102.7	20.00	0.44	19.56	97.8	2120.00	19.17	2100.83	99.1
107	1	2	108.68	103.9	20.00	0.45	19.55	97.8	2140.00	19.62	2120.38	99.1
108	2	1	112.88	101.2	20.00	0.47	19.53	97.7	2160.00	20.08	2139.92	99.1
109	1	2	108.18	104.4	20.00	0.54	19.46	97.3	2180.00	20.53	2159.37	99.1
110	2	1	108.44	104.2	20.00	0.60	19.40	97.5	2200.00	21.12	2178.88	99.0
111	1	2	108.62	105.0	20.00	0.62	19.38	96.9	2220.00	21.74	2198.28	99.0

BIG-1150(100 gpm) PERFORMANCE REQUIREMENT RATING

### FOG 2.0 RER-DERM Hydromechanical FOG Control Device (H-FCD)

Required Information	Tank No.1	Tank No.2	Total Tanks (2)
Capacity (gpm)	100	100	
FOG Load Capacity (lbs) at 99% Efficiency	2178 LBS	2178 LBS	2178 LBS
Manufacturer	Mifab	Mifab	Mifab
Model No.	BIG-1150	BIG-1150	(2) BIG-1150
3rd Party Certifier (i.e., PDI, CSA, ASME)	ASME	ASME	ASME
Interceptor Monitoring Alarm Model No.	N/A	N/A	N/A
Interceptor Monitoring Device Model No.	N/A	N/A	N/A
Solid Separator Make and Model	Mifab BIG-1150-S		

### XL-MI-G-PL-1150, BIG-1150/FE1150



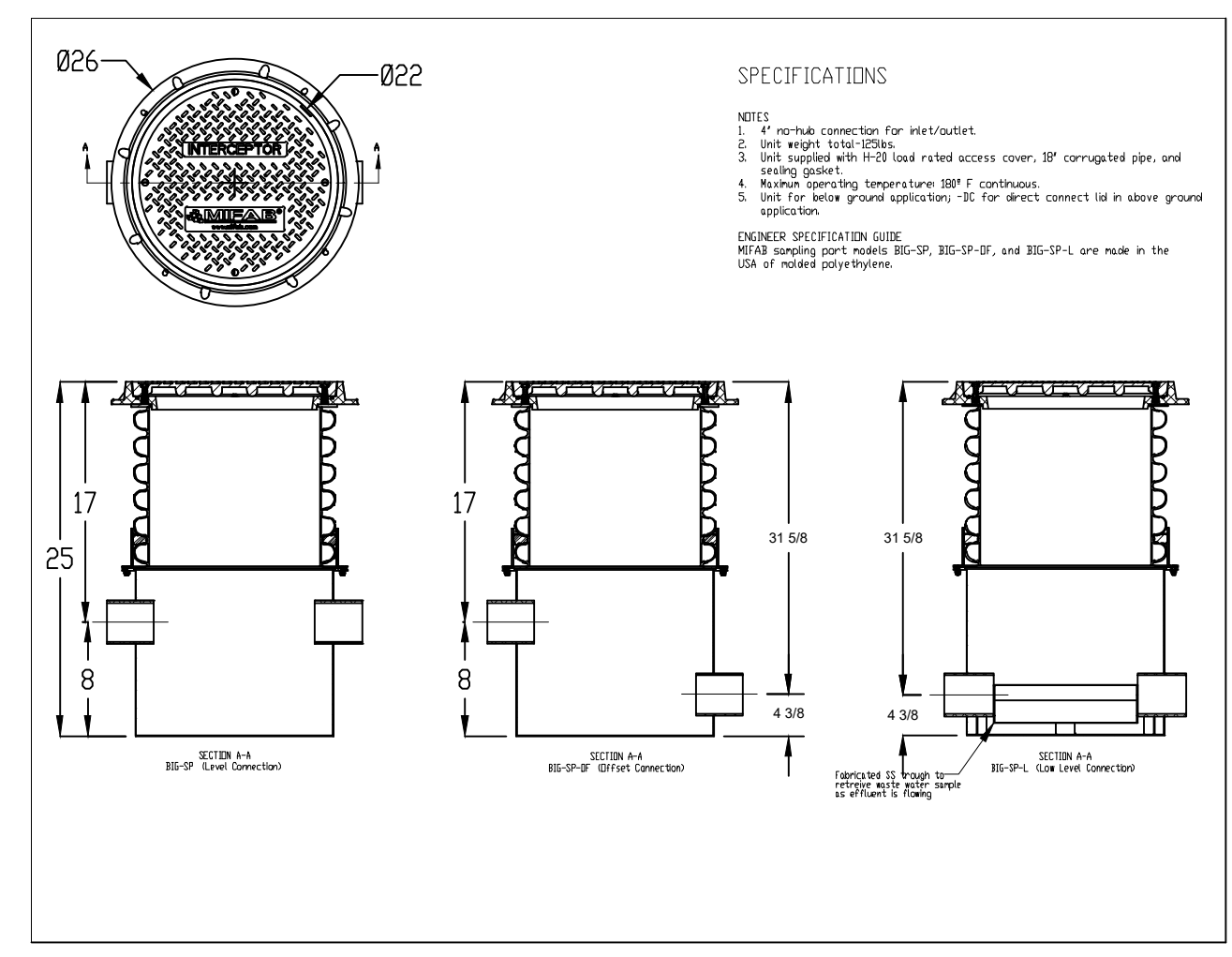
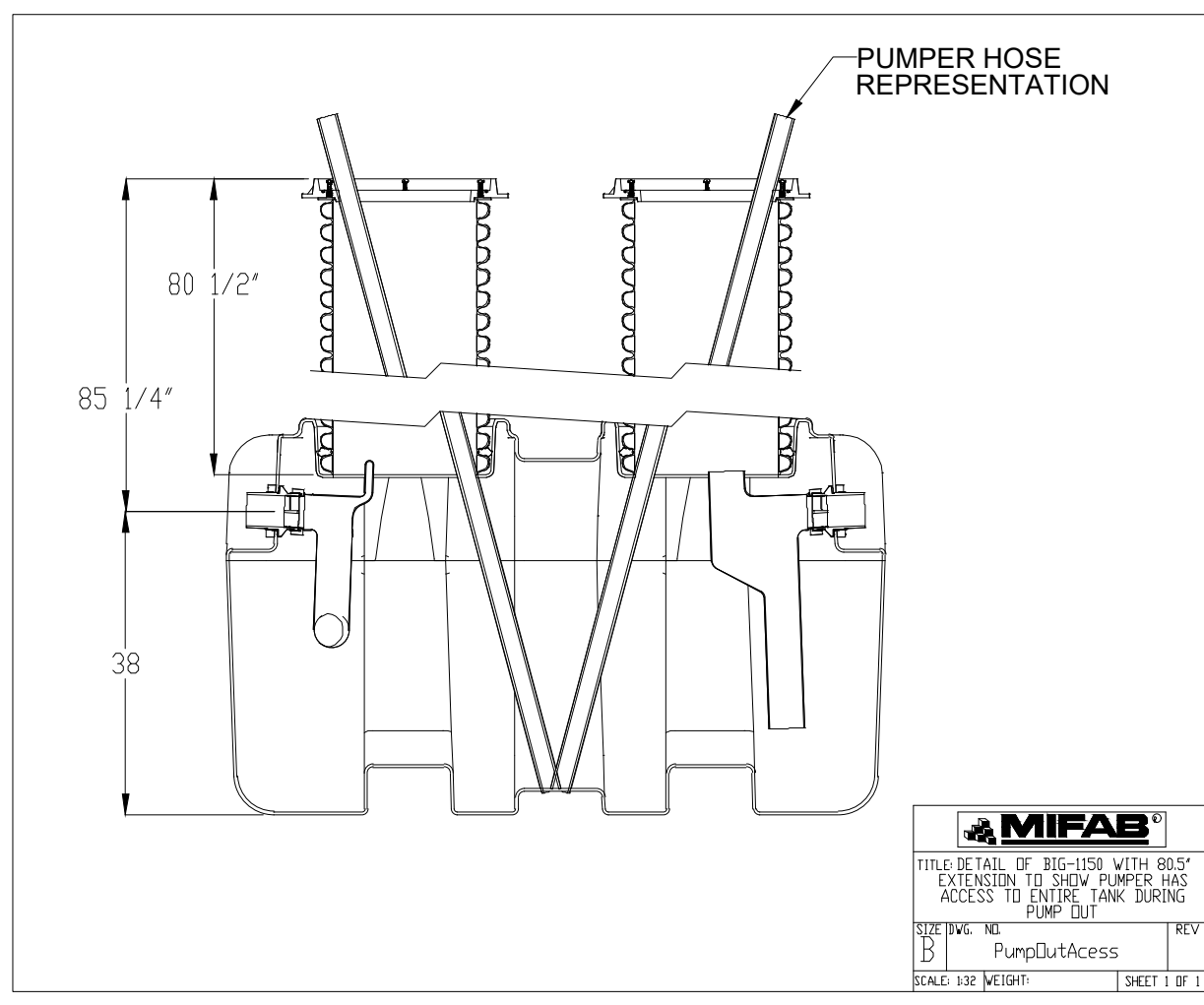
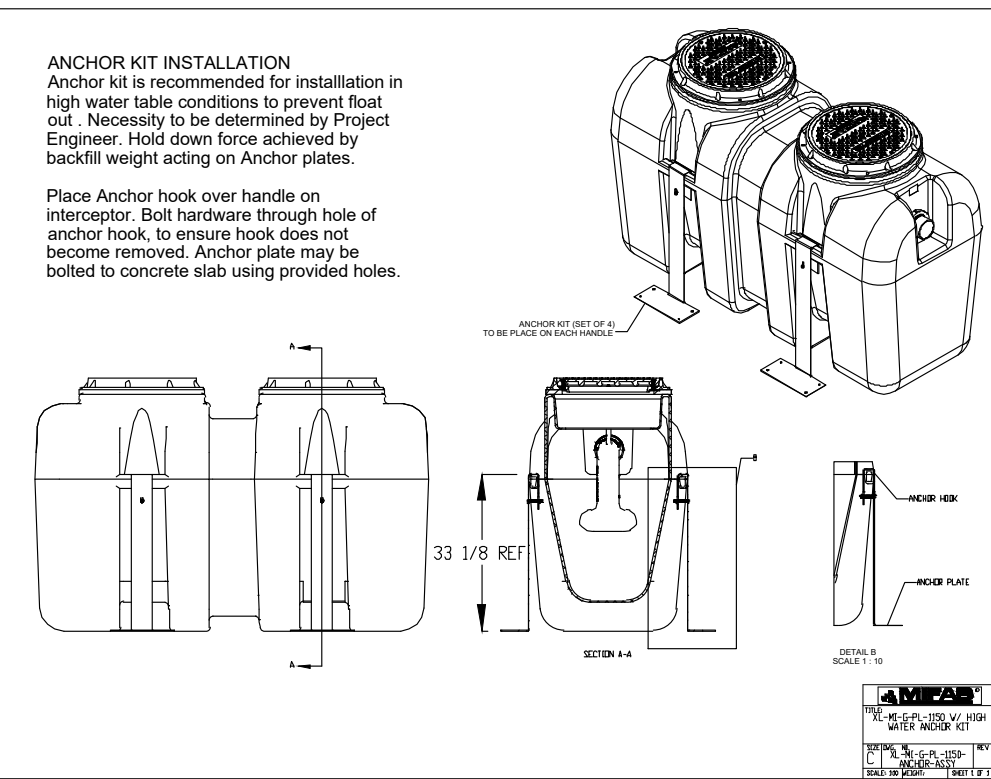
TITLE: 100GPM HDPE GREASE INTERCEPTOR

SIZE	DWG. NO.	REV
C	BIG-1150	
SCALE: 1:11	WEIGHT:	SHEET 1 OF 1

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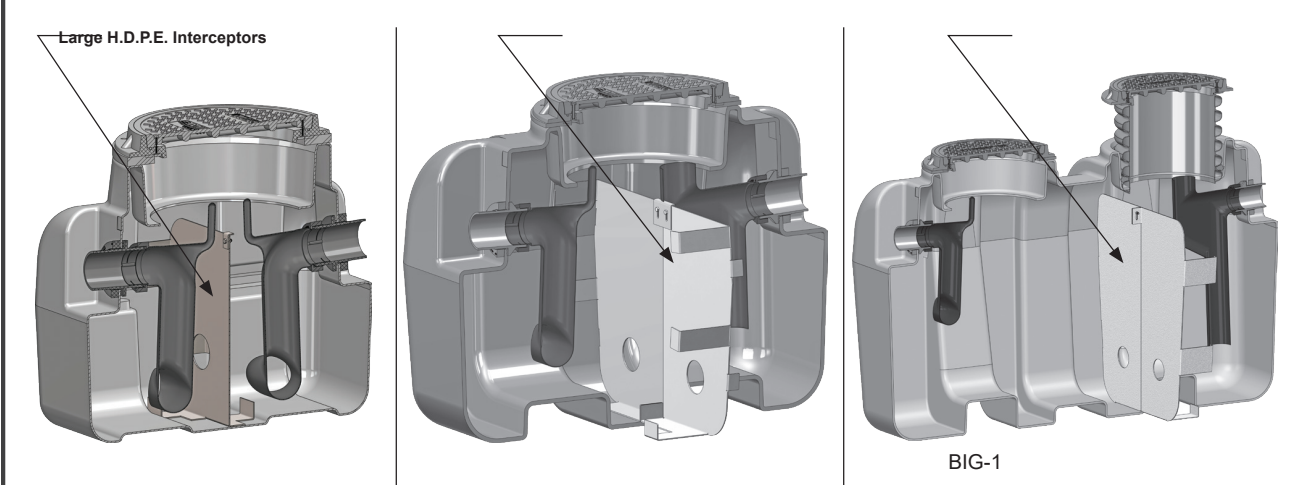
# BIG-SP/-L/-OF - BIG MAX HDPE SAMPLING PORT 36"HEIGHT WITH H-20 LID



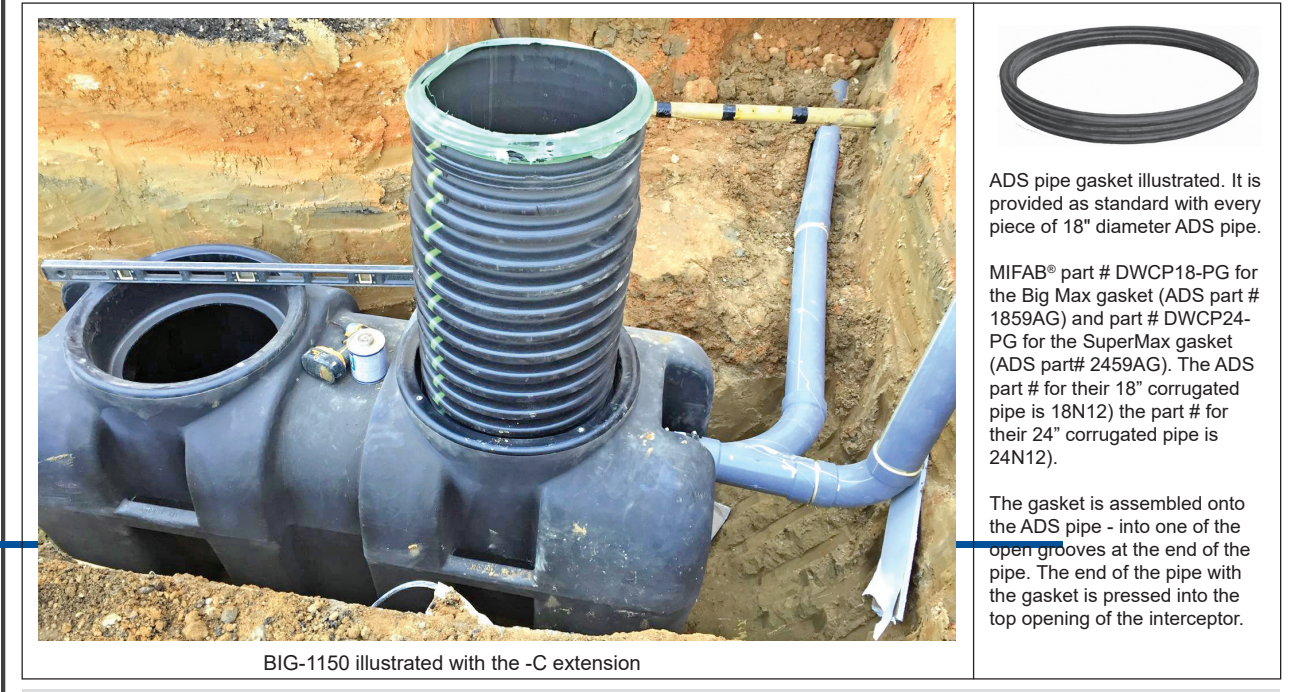
## EXTENSION AND INTERNAL BAFFLE

### BIG MAX® GREASE INTERCEPTORS WITH INTERNAL BAFFLE

Some authorities and jurisdictions require the use of an internal baffle within the grease interceptor. MIFAB® offers this option (-IB) for the BIG-750 and BIG-1150 grease interceptors. The internal baffle is shipped separate from the interceptor and needs to be installed on site.



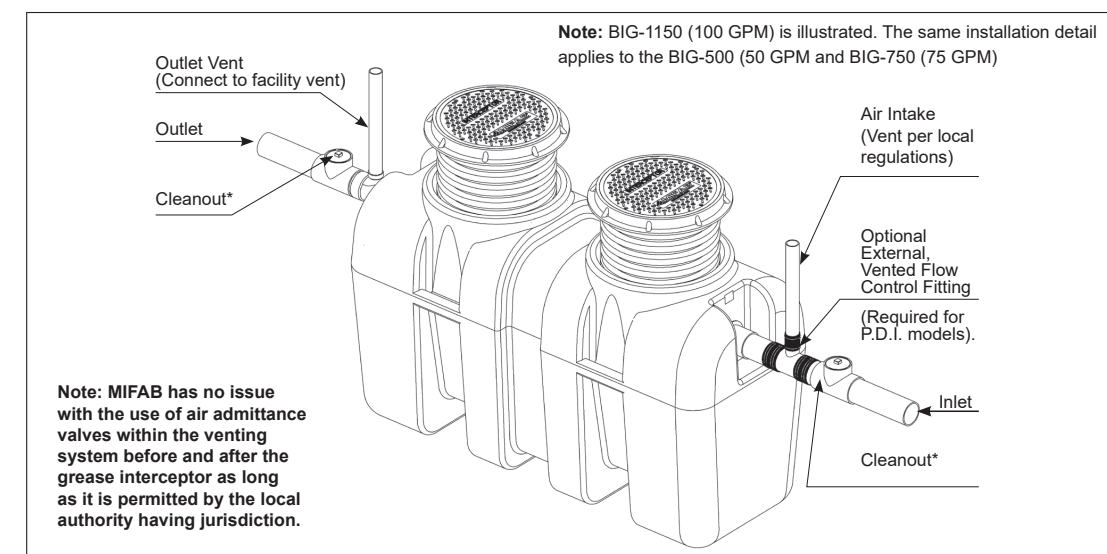
**Extensions:** Extensions are typically required when the interceptor is buried into the ground and the inlet is lowered to meet the waste piping from the building. In such a case, the lid needs to be "extended" up to the ground or grade level. With MIFAB's patented extension system every lid ships 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 less expensive than buying the same height extension system from others). In addition, extensions from others are only available from that manufacturer - resulting in delays and time for production and shipment to the contractor. Flexible extensions make for easier installation where grade may be uneven.



## VENTING INSTALLATION INSTRUCTIONS

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 control and should be vented right after the outlet.



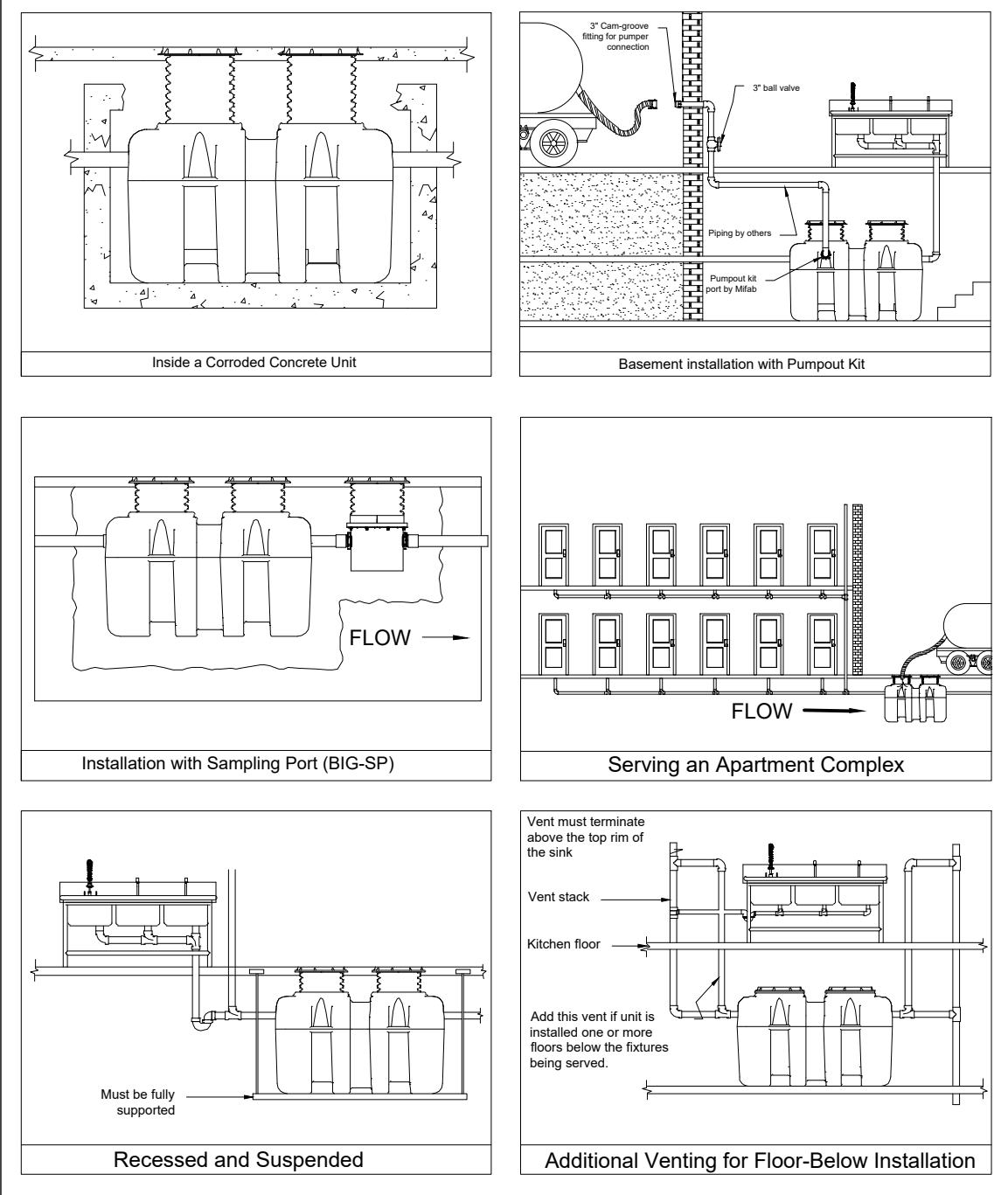
**INTERCEPTOR PLACEMENT**  
The inlet and outlet piping connections require no hub pipe couplings. (See MIFAB's MI-HUB Series of no hub couplings). Keep outlet piping as straight as possible. MIFAB® recommends installation of 4" (102 mm) cleanouts on both the Inlet and Outlet of 4" Big Max® Interceptors 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 the system.

- RECOMMENDED EXCAVATION, BACKFILLING, AND FINISHING FOR BIG MAX® INTERCEPTORS**
- Install the interceptor(s) as close as possible to the building.
  - The excavation must be a minimum of 12" greater on all sides of the tank.
  - The depth of the excavation must be greater than 6" on the bottom of the interceptor.
  - Fill the interceptor with water prior to installation.
  - Fully install the double wall corrugated pipe.
  - Excavation requirements are to be determined by the specifying engineer.
  - Encase the interceptor in well-packed 3/4" rock, or sand. Do not compact.
  - To prevent floating, 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.**



## XL-MI-G-PL-1150, BIG-1150/FE1150

**MIFAB®**

TITLE: 100GPM HDPE GREASE INTERCEPTOR

SIZE DWG. NO. C BIG-1150 REV

SCALE: 1:11 WEIGHT: SHEET 1 OF 1

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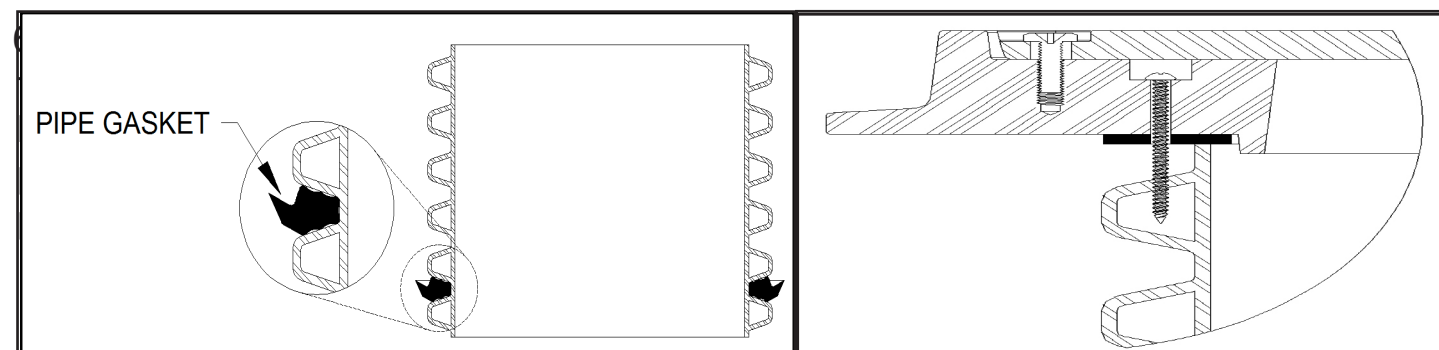
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## Big Max Extension Collar Installation

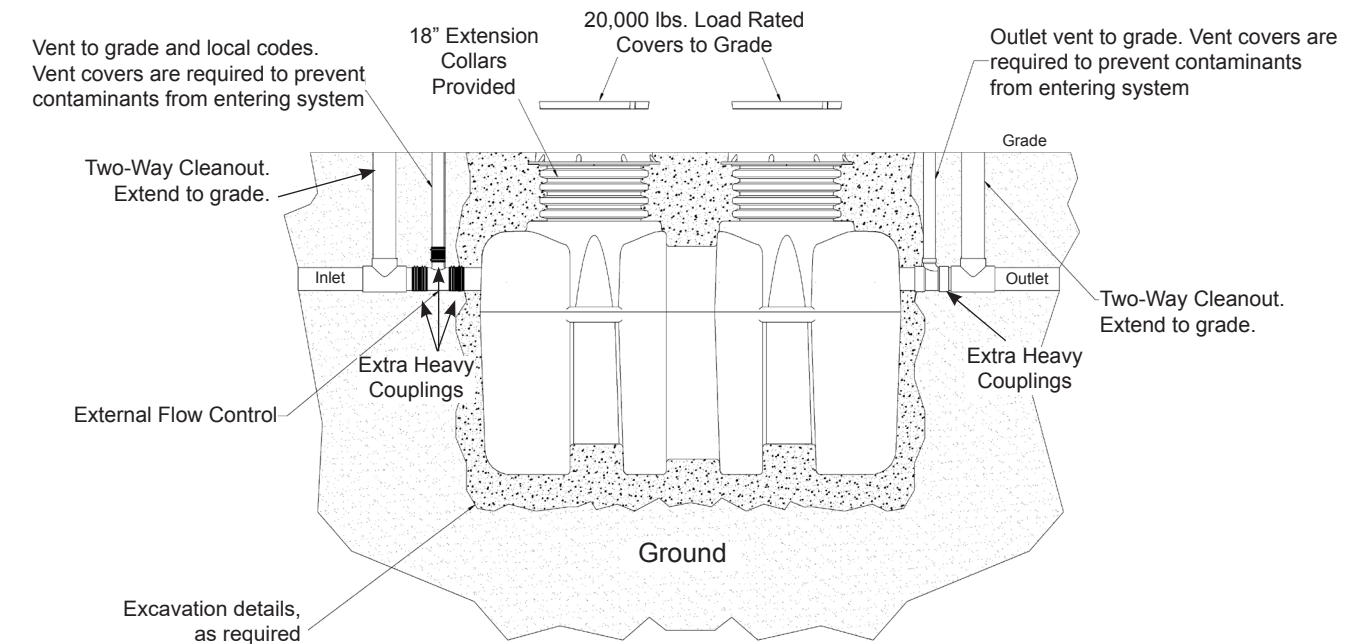
- 1) Set the Big Max Unit height to grade by installing the 18" diameter corrugated pipe onto the top opening(s) of the body, then insert the lid on top to measure and adjust the finished height from the top to grade. If less extension is needed measure the required dimension, mark the extension and 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 slide 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.



Extension Collar and Gasket Assembly

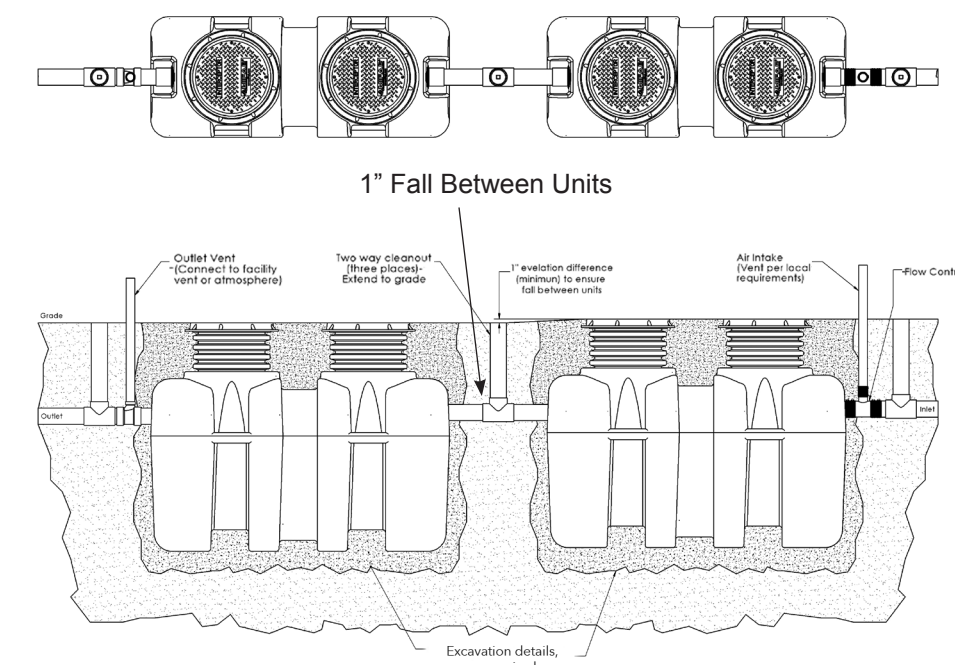
Lid and Extension Collar Installation

## 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.

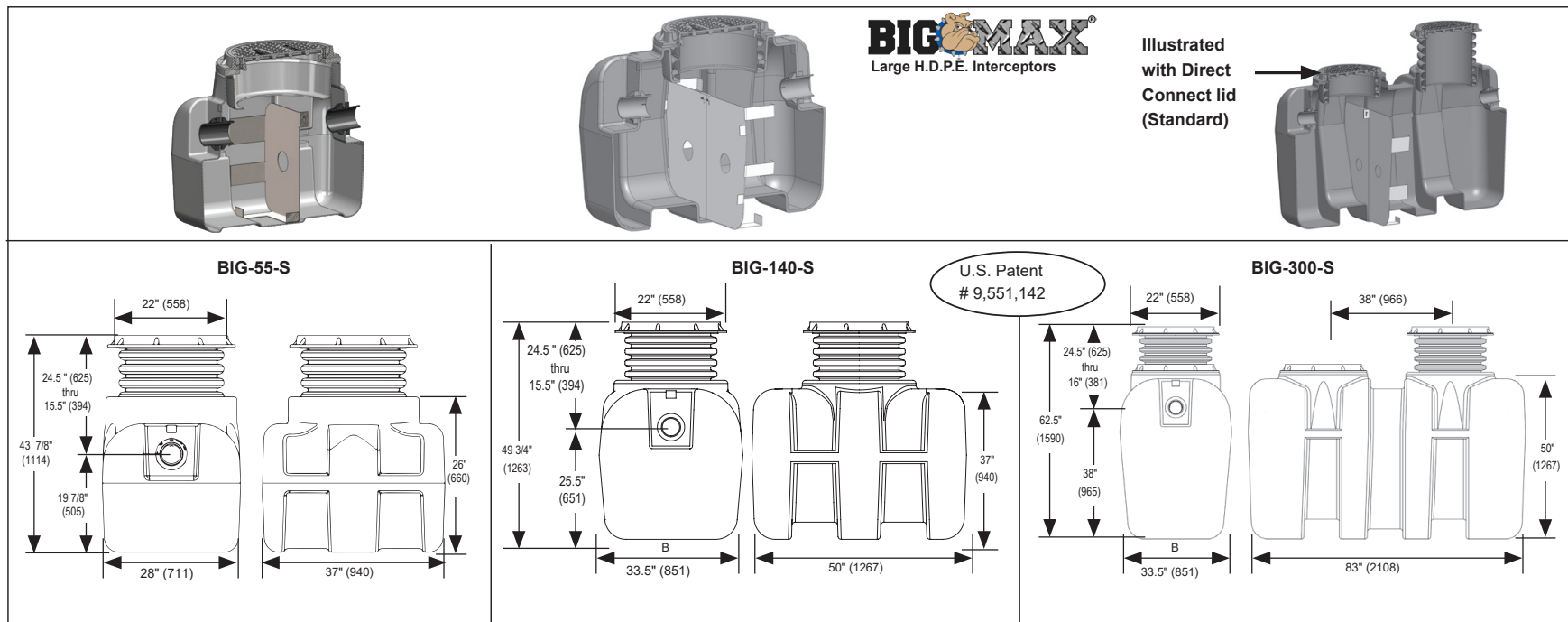
**XL-MI-G-PL-1150, BIG-1150/FE1150**

**BIG-S**

**Big Max® – HDPE Solids Interceptors**

**Specification:** MIFAB® Series BIG-\_\_\_\_-S HDPE rotational molded solids interceptor with solids holding capacity of \_\_\_\_ (indicate). Unit shall include: 3/8" uniform wall thickness, solids retention baffle with elevated 3" diameter passageway, adjustable lid system, sample port access and 4" no hub inlet and outlet connections. Steel encased composite lid provides a water / gas tight seal and has a minimum of 20,000 lbs. load capacity. The lid is designed in accordance with the loading requirements of AASHTO H20.

**Function:** Solids interceptors are required anywhere that solids may be introduced into the public sewer system in applications such as: barber shops, dentist offices, salons, artist studios, laundry facilities, machine shops, food waste, parking lots, car washes, food processing, livestock and agricultural drainage. These wastes must be separated before entering the sewer system. Ideally installed between the fixtures and the grease interceptor in restaurants, kitchens, institution industrial facilities such as food processing and packaging plants and other types of food processing areas where fat, oil and grease (FOG) drains with the waste water. Sediment and debris are collected inside of the internal sediment bucket to ensure that this matter does not clog the grease interceptor. Typically installed either on or into the floor. Narrow width permits access through doorways and down stairwells. High Density Polyethylene construction ensures a lightweight installation process (two people can move and install it). Regular maintenance is required to keep the interceptor functioning. All Big Max interceptors can withstand a temperature of up to and including 180 degrees Fahrenheit.



NOTE:	Model No.	LIQUID CAP. (Gallons / Cu. Ft.)	SOLIDS CAP. (Gallons / Cu. Ft.)	B Width	Shipping Weight (Lbs.)	List Price
The BIG-55-S is not available until June, 2020	BIG-55-S	55 / 7.19	28 / 4	28.00"	92	\$3,500.00
	BIG-140-S	140 / 18.30	70 / 9	33.50"	165	\$4,200.00
	BIG-300-S	300 / 39.21	150 / 20	33.50"	290	\$6,700.00

SUFFIX	OPTIONAL VARIATIONS	PART NO.	LIST PRICE
-AK	Anchor kit (set of two) for BIG-55-S	BIG-500-AK-SET	\$670.00
-AK	Anchor kit (set of two) for BIG-140-S	BIG-750-AK-SET	\$670.00
-AK	Anchor kit (set of two) for BIG-300-S	BIG-1150-AK-SET	\$670.00
-C	Lid Extension - up to 44" high - for BIG-55-S	BIG-EXT-44	\$630.00
-C	Lid Extension - up to 72" high - for BIG-55-S	BIG-EXT-72	\$783.00
-C	Lid Extension - up to 44" high - for BIG-140-S	BIG-EXT-44	\$630.00
-C	Lid Extension - up to 72" high - for BIG-140-S	BIG-EXT-72	\$783.00
-C	Lid Extension - up to 44" high - for BIG-300-S	BIG-EXT-44 (2 pcs. Req.)	\$630.00
-C	Lid Extension - up to 72" high - for BIG-300-S	BIG-EXT-72 (2 pcs. Req.)	\$783.00
-DI	Ductile iron lid and collar - for BIG-55-S	XL-MI-G-0-PL4	\$694.00
-DI	Ductile iron lid and collar - for BIG-140-S	XL-MI-G-0-PL4	\$694.00
-DI	Ductile iron lid and collar - for BIG-300-S (Two pieces required)	XL-MI-G-0-PL4 (2 pcs. Req.)	\$1,388.00
-F6	6" no hub inlet and outlet - for each piece (Two pieces required)	MI-G-PL-PF6	\$222.00
-FL-C	Membrane clamp kit for BIG-55-S and BIG-140-S	XL-MI-G-PL-FLM (2 pcs. Req.)	\$393.00
-FL-C	Membrane clamp kit for BIG-300-S	XL-MI-G-PL-FLM (2 pcs. Req.)	\$917.00
-LHSI	No hub inlet on left hand side (not available with sediment bucket) (for Lil Max, Big Max, SuperMax)	MI-G-PL-PF4	\$63.00
-LHSO	No hub outlet on left hand side (not available with sediment bucket) (for Lil Max, Big Max, SuperMax)	MI-G-PL-PF4	\$63.00
-RHSI	No hub inlet on right hand side (not available with sediment bucket) (for Lil Max, Big Max, SuperMax)	Contact MIFAB	\$166.00
-RHSO	No hub outlet on right hand side (not available with sediment bucket) (for Lil Max, Big Max, SuperMax)	MI-G-PL-PF4	\$63.00
-RPO	3" Remote pump outlet connections on top of interceptor - specify location and number required	Contact MIFAB	\$110.00
-SP	External sampling port - inline, high connections	BIG-SP	\$500.00
-SP-L	External sampling port - inline, low connections	BIG-SP-L	\$500.00
-SP-OF	External sampling port - offset	BIG-SP-OF	\$500.00
-T	Female threaded connections (for each piece - Two pieces required)	MI-G-PL-PF4T	\$131.00

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

**XL-MI-G-PL-1150, BIG-1150/FE1150**

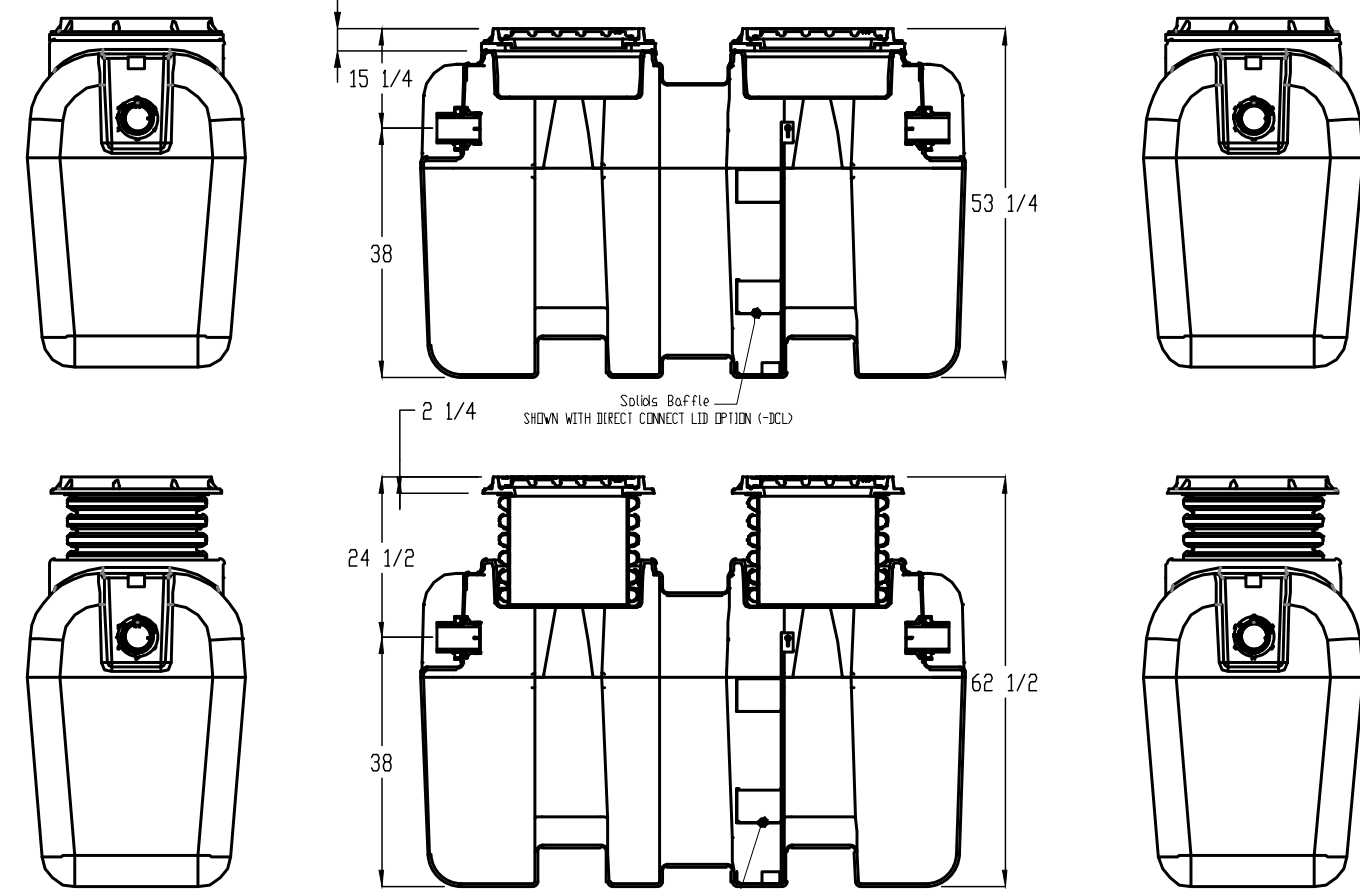
BIG-300-S - DERM Requirement is to have a Solids Interceptor in front of the Grease Interceptors

- 4" Inlet and Outlet No-Hub Connections.
- Solids Holding Capacity: 300 gallons
- H-20 Load Rated Access Covers
- Maximum Operating Temperature: 180 continuous

**DETAILS**  
 3/8" thick seamless high density polyethylene.  
 Full internal access through lids.  
 Vent not required for proper operation.  
 Designed for above or below ground installation.

**SUFFIX**  
 -AK  
 -C  
 -EP  
 -F6  
 -HLA

**OPTIONAL VARIATIONS**  
 High water anchor kit  
 Lid extensions (specify)  
 Enzyme port  
 6" No-Hub Inlet/outlet connection  
 High level alarm



**MIFAB**  
 TITLE: 300 GALLON HDPE SOLIDS INTERCEPTOR  
 SIZE: DWG. NO. BIG-300-S  
 SCALE: 1/8" = 1'-0" SHEET 1 OF 1

**Good Harbour Laboratories**

**TESTING AND RATING OF TWO GREASE INTERCEPTORS, BIG-1150 / FE1150, CONNECTED IN SERIES, AS PER ASME A112.14.3-2018 (TYPE A)**

Prepared by: **Da Wu Zhang**  
February 06, 2019

Prepared for: **Jason Gremchuk**  
**MIFAB**  
1321 W 119th Street  
Chicago, IL 60643

Report ID: **TR-DZ20181217-03**

Test Summary:  
 PROJECT NUMBER: FN 18-013  
 DEVICE MANUFACTURER: MIFAB  
 TEST UNITS: BIG-1150 / FE1150  
 TEST PROCEDURE: ASME A112.14.3-2018 (TYPE A)  
 TEST DATE: December 03 - 13, 2018

TR-DZ20181217-03 Good Harbour Laboratories Page 1 of 13

3. Testing occurred continuously over several normal work days. During stand-by periods, efforts were made to maintain the water temperature within the grease interceptors to prevent the lipid from solidifying.

The flow control device at the sink was fitted with an orifice plate, with an opening diameter of 2.45 inches, to achieve the target test flow rate of 100 GPM.

The pH of the test water ranged between 7.1 and 8.0 which is within the specification of 6.0 - 8.0.

**3. Results**

**3.1 Flow Rate Verification**  
 The flow rate was verified and was acceptable. The detailed results are presented in Appendix 1.

**3.2 Grease Interceptor Rating**  
 The BIG-1150 / FE1150 grease interceptor testing continued until run 125, when the breakdown point was achieved due to the incremental run removal efficiency dropping below 75%. The cumulative removal efficiency remained above 90%.

The ASME A112.14.3 rating criteria are presented in Table 3, the performance results are presented in Appendix 2.

Criterion	Observation*	Result
Have an average efficiency of (90) percent or more	99.8%	Pass
Have an incremental efficiency of (80) percent or more	99.6%	Pass
Have retained not less than 200 lbs of lipid	239.49 lbs	Pass

\*Observed at Run #125 as per Section 3.4.7.2 Determination of Efficiency at Maximum Grease Capacity

**4. Conclusions**  
 Two MIFAB BIG-1150 / FE1150 100 gpm grease interceptors, connected in series, meet the certification requirements of the 100 gpm rating as defined in the ASME A112.14.3-2018 (Type A) and PDA-G 101 (rev. 2017) protocols, with a total grease capacity of 247.60 lbs at the test breakdown point.

**5. Attachments**  
 Appendix 1 - Flow Rate Verification Data  
 Appendix 2 - Grease Interceptor Rating Test Data

TR-DZ20181217-03 Good Harbour Laboratories Page 6 of 13

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**MIFAB**

TITLE: 100GPM HDPE GREASE INTERCEPTOR

SIZE: DWG. NO. BIG-1150 REV

SCALE: 1:1 WEIGHT: SHEET 1 OF 1