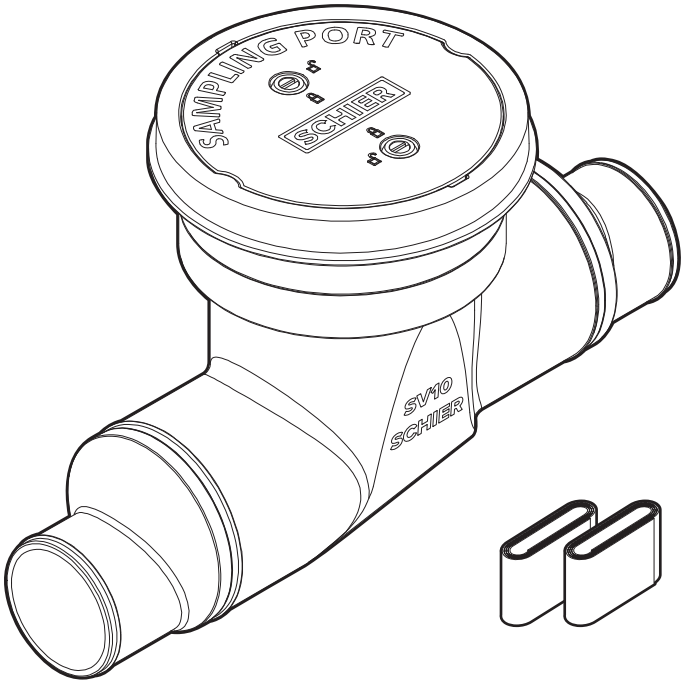
INSTALLATION GUIDE

SV10 Wastewater Sampling Port



Contents

SCHIER

MODEL NUMBER: SV10	DESCRIPTION: Wastewater Sampling Port		
PART #: 8065-001-01	DATE: 01/01/2023	REV:	ECO:

6455 Woodland Dr. | Shawnee, KS 66218 | 913-951-3300 | schierproducts.com

SPECIAL PRECAUTIONS

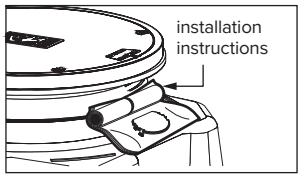
For Schier Grease Interceptor Installations - Failure to follow this guidance voids your warranty

WARNING! DO NOT AIR TEST UNIT OR RISER SYSTEM!
Doing so may result in property damage, personal injury or death.

CAUTION! Do not install this unit in any manner except as described in these instructions.

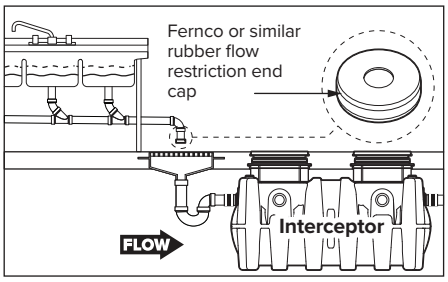
Installation Instructions

Installation instructions and additional components are included with the interceptor. Read all instructions prior to installation. This interceptor is intended to be installed by a licensed plumber in conformance with all local codes.



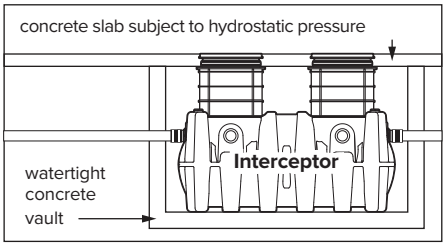
When Installing Interceptor Inside

If your dishwashing sink(s) discharges into a floor drain/sink (drain), you must regulate the flow into the drain to avoid an overflow of water onto the kitchen floor. This can be done by installing a valve or flow restriction cap on the sink piping that discharges into the drain. See drawing for guidance. For detailed guidance on indirect connections, go to: webtools.schierproducts.com/Technical_Data/Indirect_Connections.pdf

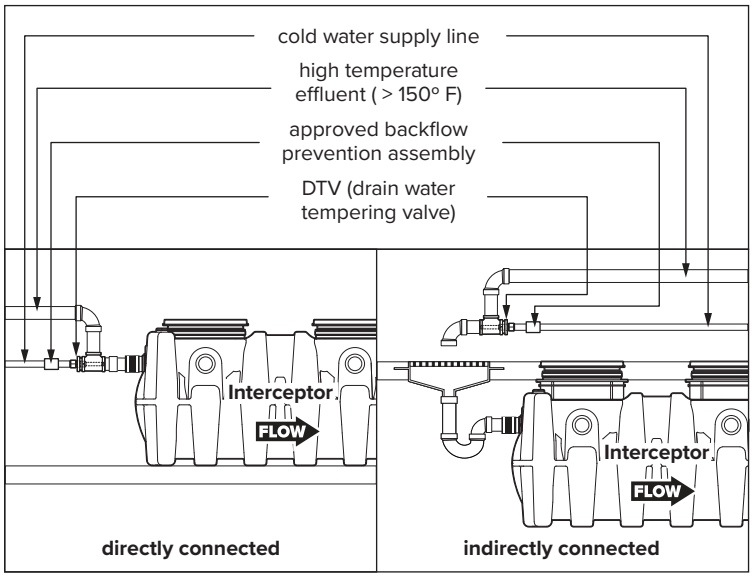


Hydrostatic Slabs (or Pressure Slabs)

When installed under a hydrostatic slab (slab designed to withstand upward lift, usually caused by hydrostatic pressure) interceptor must be enclosed in a watertight concrete vault.



High Temperature Kitchen Water



If water is entering the interceptor at excessive temperature (over 150° F), a drain water tempering valve (DTV) and approved backflow prevention assembly must be installed. Most state and local plumbing codes prohibit water above 150° F being discharged into the sanitary sewer. Water above 150° F will weaken or deform PVC Schedule 40 pipe, poly drainage fixtures like interceptors and erode the coating of cast iron (leading to eventual failure).

SPECIAL PRECAUTIONS

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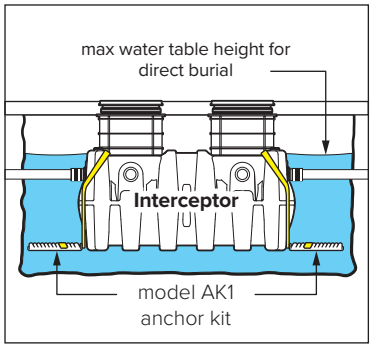
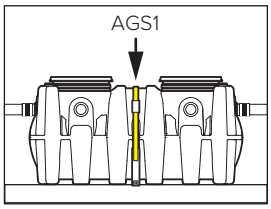
High Water Table Installations



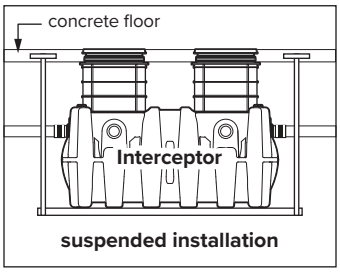
Interceptors and risers are not designed to withstand water table height in excess of the top of the unit when buried (see figure). If it is possible for this to occur, install the interceptor and risers in a water-tight concrete vault or backfill with concrete or flowable fill (wet concrete and flowable backfill should be poured in stages to avoid crushing the interceptor). At risk areas include but are not limited to tidal surge areas, floodplains and areas that receive storm water. Great Basin™ models that are direct buried in high water table scenarios must be installed with an anchor kit. Models GB-50, GB-75, and GB-250 use model AK1 anchor kit. Model GB-500 uses model AK2 anchor kit for use with deadmen anchors. Models GB-1000, GGI-750 and GGI-1500 use model AK3 anchor kit for use with deadmen anchors.

Above Grade Installation Support (for Models GB-250 and GB-500 Only)



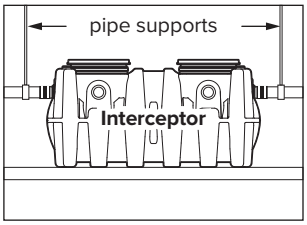
The wet weight of the interceptor combined with high temperature kitchen water creates the potential for tank deformation when installed above grade. In these situations Above Grade Support Kit model AGS1 or AGS2 should be installed to maintain structural integrity. AGS1 is required for some GB-250 installations. AGS2 is required for all GB-500 installations.

Fully Support Base of Unit

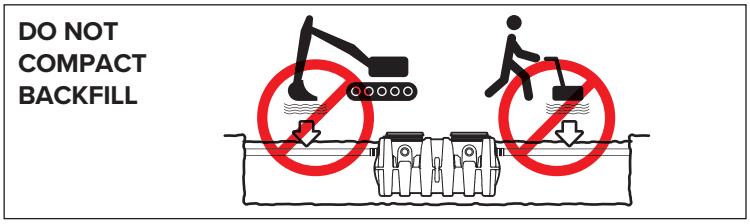


Install unit on solid, level surface in contact with the entire footprint of unit base; for suspended installations design trapeze to support the wet weight of the unit. Do not partially support unit or suspend unit using metal U-channel to create a trapeze.

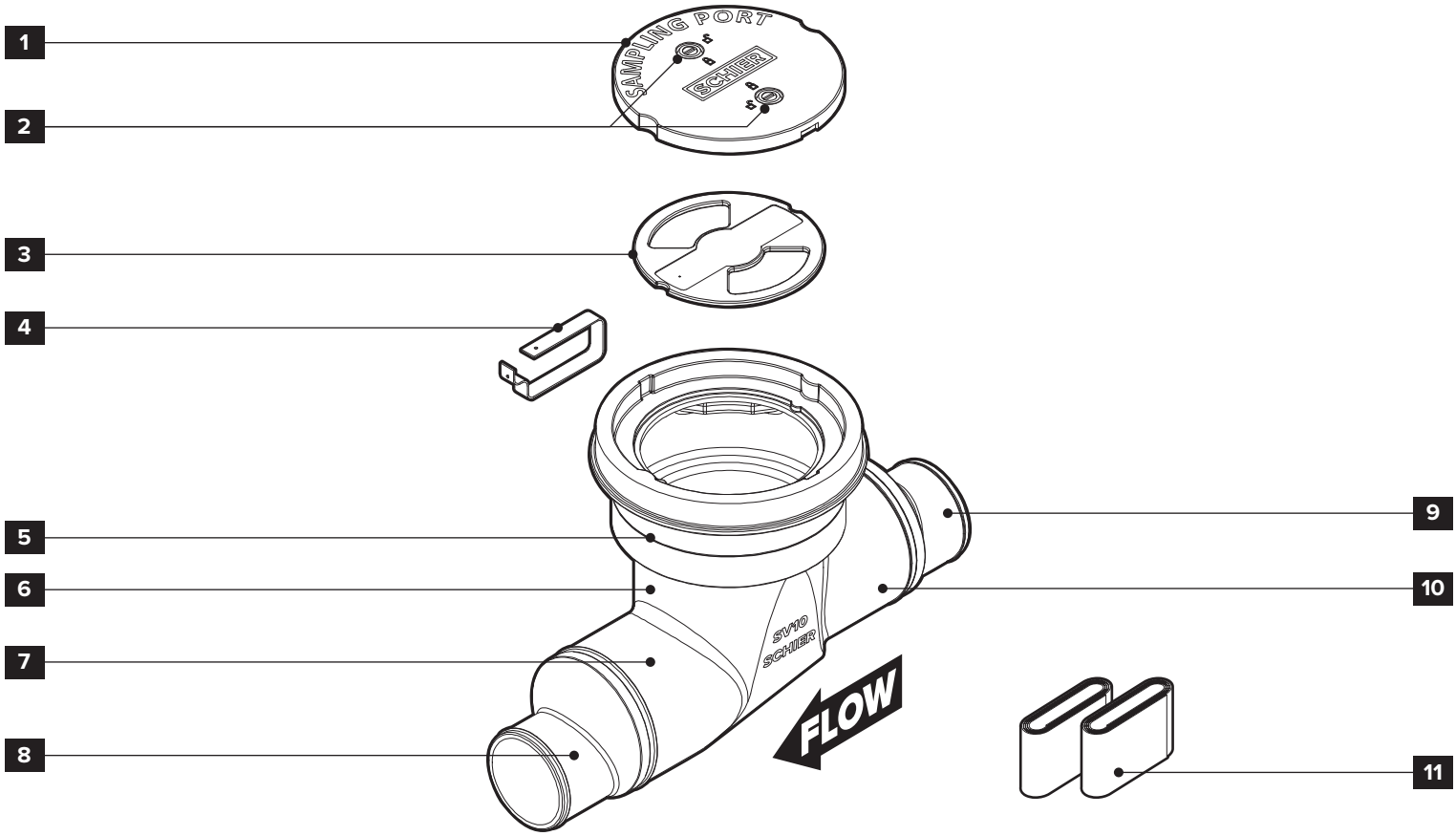
Support Inlet and Outlet Piping



For above grade installations ensure heavy inlet and outlet piping (such as cast iron or long runs) is properly supported or suspended during the entire installation process to prevent connection failure or damage to bulkhead fittings.



GETTING TO KNOW THE SV10



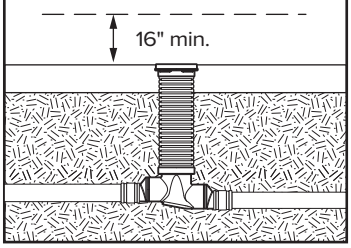
1. Polyethylene Cover with Gasket
2. Quarter-Turn Camlock Cover Bolts (x2)
3. Safety Star
4. Safety Star Tether
5. Riser Cut Line
6. Sampling Port Body
7. 6" Plain End Outlet Connection (achieved by cutting off the 4" connection at the trim line)
8. 4" Plain End Outlet Connection (standard)
9. 4" Plain End Inlet Connection (standard)
10. 6" Plain End Inlet Connection (achieved by cutting off the 4" connection at the trim line)
11. 2" x 33" Butyl Mastic Tape Roll (x2)

BURIED INSTALLATION

Special Precautions

1 **Install sampling port as close as possible to and downstream from interceptor being served**

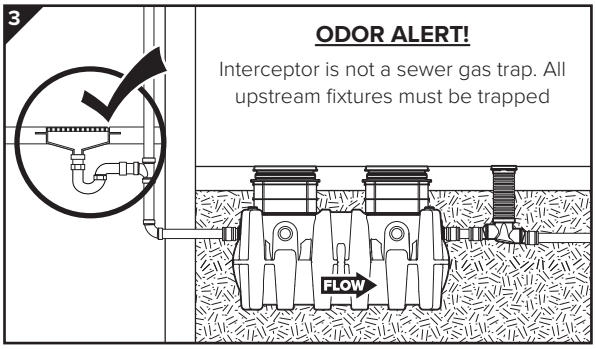
2 **Provide at least 16" clearance above unit for routine maintenance.**



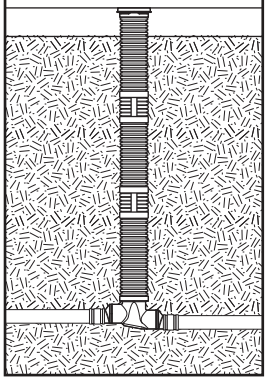
3

ODOR ALERT!

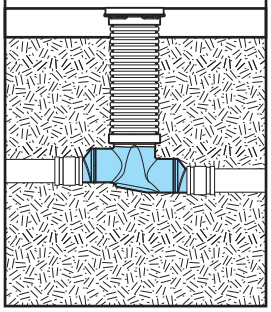
Interceptor is not a sewer gas trap. All upstream fixtures must be trapped



4 **3 Risers (94") Max**

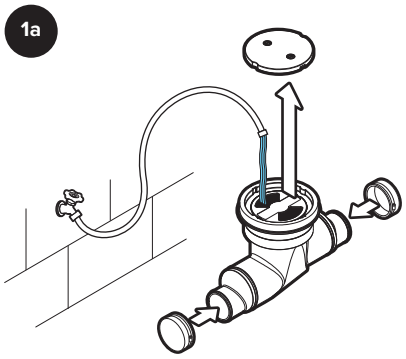


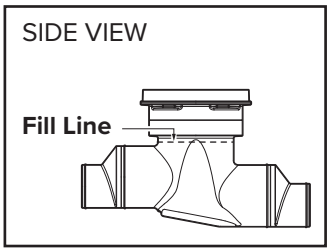
5 **Max Water Level** Risers are not designed to retain water



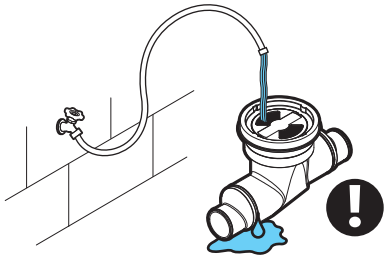
1 Test sampling port for water tightness

1a





1b



For base unit testing, cap both connection points with 4" flexible PVC caps. Remove cover and fill with water to just above the highest connection.

Inspect unit and connections for leaks. Check water level at specific time intervals per local code.

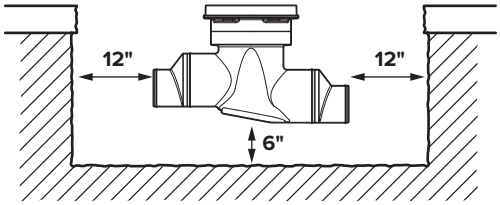
Have a Leak?

Call customer care at 913-951-3300
Hours 8am-5pm CST, M-F

BURIED INSTALLATION

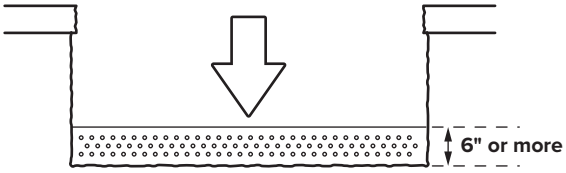
2 Excavate Burial Pit

2a



Excavate hole at least 12" larger than sampling port on all sides and 6" deeper than port bottom.

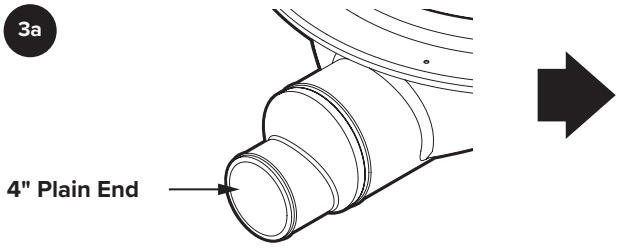
2b



Lay a level bed of well-packed, crushed aggregate (approximately 3/4" size rock or sand, with no fines) in the base of hole.

3 Connect Piping

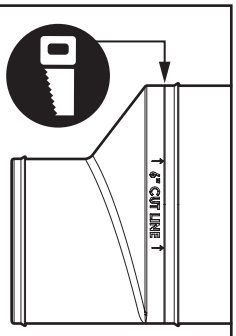
3a



The SV10 sampling port comes from the factory ready to connect to 4" drain lines.

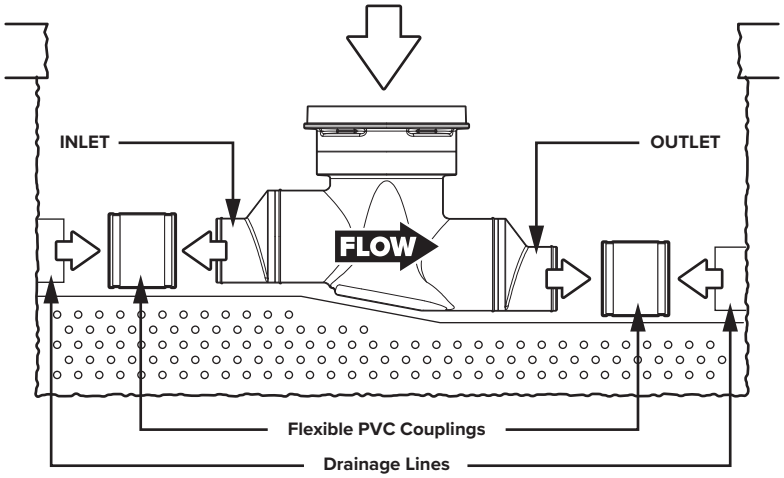
6" Connections Only

Cut off the 4" connections at the premarked cut lines. Remove any burrs from the cut.



3b

3b1



Lower unit into pit and set level. Mechanically couple inlet and outlet drainage lines to unit.

IMPORTANT! Make sure the sampling port is correctly aligned. The SV10 outlet is 2" lower than the inlet to facilitate sample retrieval and comply with local codes. **DO NOT install backwards as doing so will result in improper drainage slope.**

Do not solvent weld. Vent per local code.

4 Wet or Air Test Piping Per Local Code

WARNING! DO NOT AIR TEST UNIT OR RISER SYSTEM!

Doing so may result in property damage, personal injury or death.

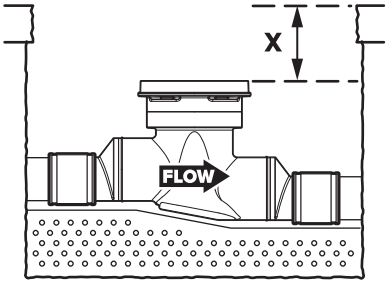
Have a Leak? Call customer care at 913-951-3300

Hours 8am-5pm CST, M-F

5 Bring Cover Flush-to-Grade

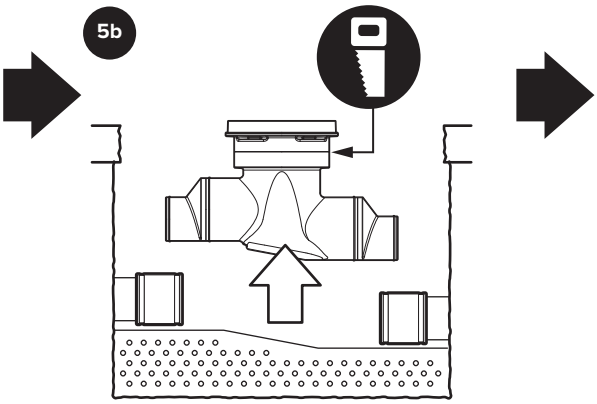
The SV10 is ready for burial depth of 14-1/2" from finished grade to bottom of unit (or 10-1/4" to centerline of inlet, 12-1/4" to centerline of outlet). Deeper burials will require adding a risers.

5a Measure dimension X to determine riser height needed.



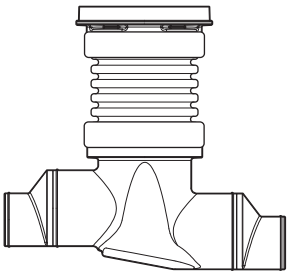
Riser Height Needed	Risers Required
>0" - 31"	FCR10 (x1)
>31" - 64"	FCR10 (x2)
>64" - 97"	FCR10 (x3)

5b



Disconnect the SV10 and remove it from the burial pit. Cut the SV10 at the Riser Cut Line, freeing the cover adapter from the sampling port body.

5c1 **Install Schier Riser(s) FCR10**

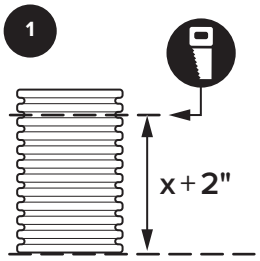


See instructions included with FCR10 for installation details.

OR

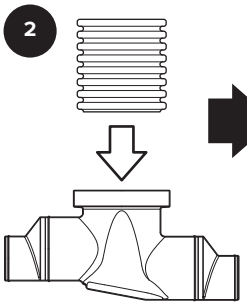
5c2 **Install Your Own Riser.** The SV10 is designed to accommodate any non-perforated, 8" nominal diameter drain pipe for riser use. Sch. 40 PVC or corrugated drain pipe is recommended.

1



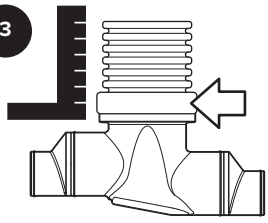
Cut riser to a length **2" longer** than the riser height needed.

2



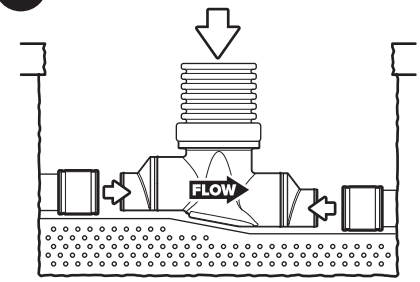
Insert Riser into SV10 Body.

3



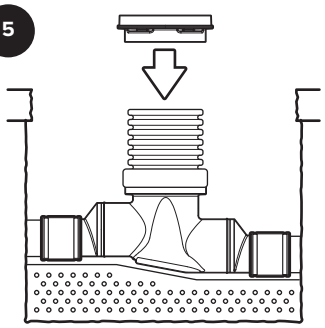
Use 1 piece of the provided butyl mastic tape to secure the riser joint. Make sure joint is completely sealed and riser is aligned square to the SV10 Body.

4



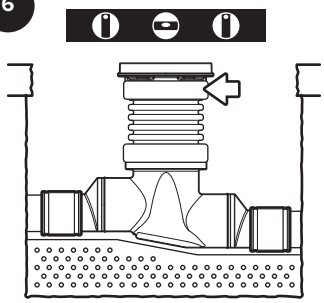
Return the SV10 to the burial pit and reconnect the drain lines

5



Place the cover/cover adapter onto the top of the riser and check to see if flush with grade. If too high, remove cover and trim riser as needed.

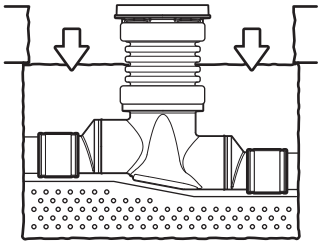
6



Secure cover/cover adapter using the other piece of the provided butyl mastic tape. Make sure joint is completely sealed and cover is level and flush-to-grade.

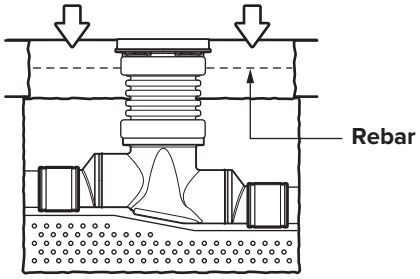
6 Backfill and Finished Grade

6a



Backfill evenly around tank using crushed aggregate (approximately 3/4" size rock or sand with no fines) or flowable fill. **Do not compact backfill around unit.**

6b

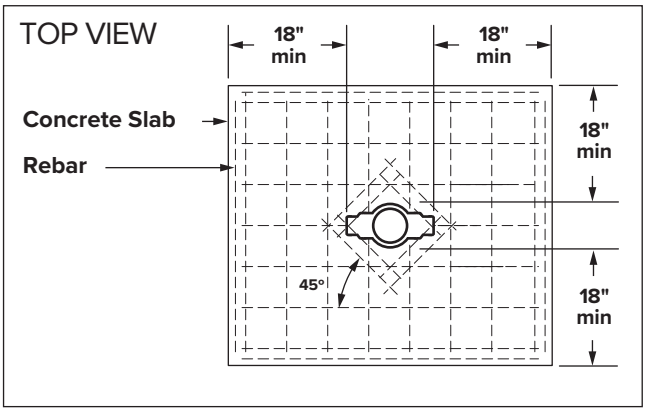


Pour concrete slab to finished grade.

6b1

Vehicular Traffic Areas:
Minimum 8" thick concrete slab with rebar required. Thickness of concrete around covers to be determined by specifying engineer. If traffic loading is required the concrete slab dimensions shown are for guideline purposes only. Concrete to be 28 day compressive strength to 4,000 PSI. Use No. 4 rebar (ø 1/2") grade 60 steel per ASTM A615: connected with tie wire. Rebar to be 2-1/2" from edge of concrete and spaced in a 12" grid with 4" spacing around access openings.

Pedestrian Traffic or Greenspace Areas:
Minimum 4" thick concrete slab with rebar required.



ON THE FLOOR INSTALLATION

Special Precautions

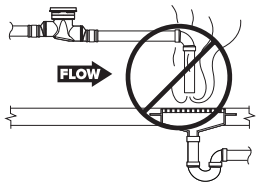
1

Install sampling port as close as possible to and downstream from interceptor being served

2

ODOR ALERT!

Do not install air gap on outlet side of sampling port.



3

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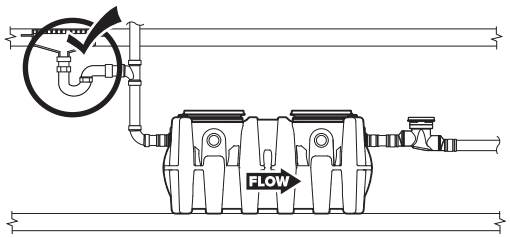
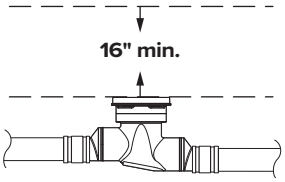
Sampling port is not a sewer gas trap. All upstream fixtures must be trapped



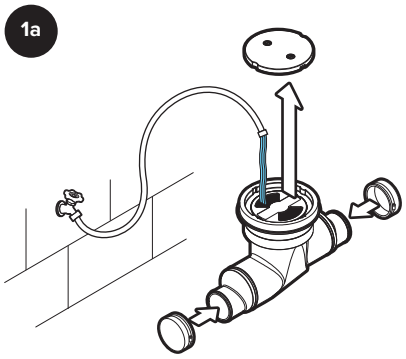
4

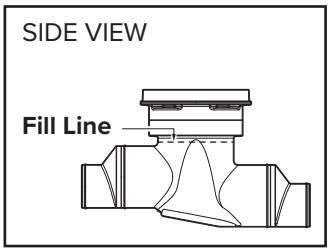
Provide at least 16" clearance above unit for routine maintenance.



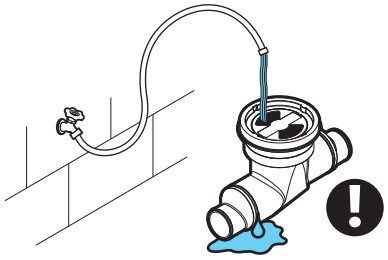
1 Test sampling port for water tightness

1a





1b



For base unit testing, cap both connection points with 4" flexible PVC caps. Remove cover and fill with water to just above the highest connection.

Inspect unit and connections for leaks. Check water level at specific time intervals per local code.

Have a Leak?

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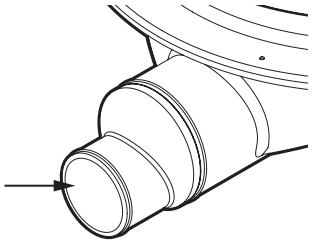
Hours 8am-5pm CST, M-F

ON THE FLOOR INSTALLATION

2 Connect Piping

2a



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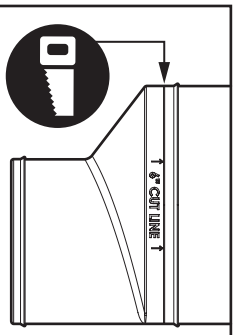
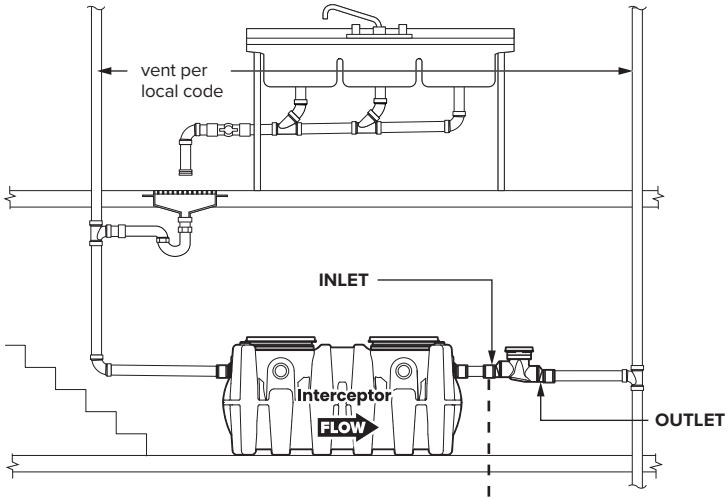
6" Connections Only

Cut off the 4" connections at the premarked cut lines. Remove any burrs from the cut.



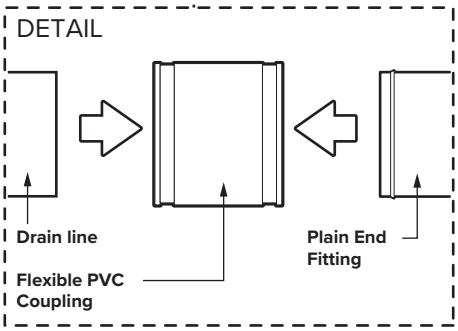
2b FLOOR BELOW INSTALLATION DETAIL



Mechanically couple inlet and outlet drainage lines to unit.

IMPORTANT! Make sure the sampling port is correctly aligned. The SV10 outlet is 2" lower than the inlet to facilitate sample retrieval and comply with local codes. **DO NOT install backwards as doing so will result in improper drainage slope.**

Do not solvent weld. Vent per local code.



3 Wet or Air Test Piping Per Local Code

WARNING! DO NOT AIR TEST UNIT OR RISER SYSTEM!
Doing so may result in property damage, personal injury or death.

Leak? Call customer care at
913-951-3300
8a – 5p M – F CST