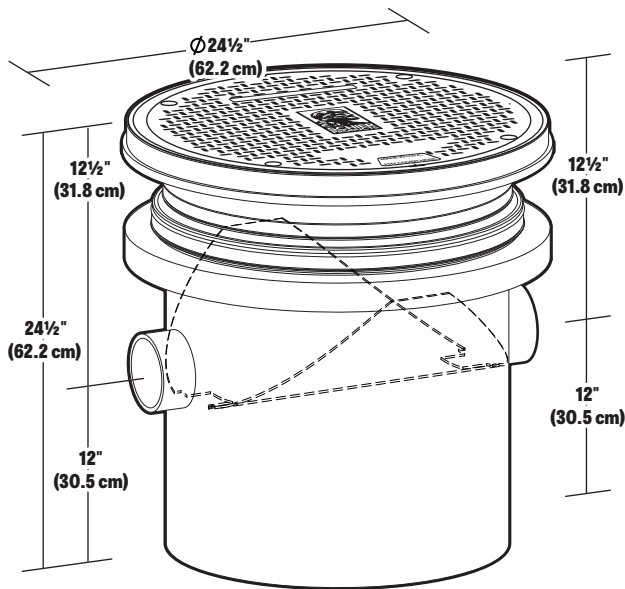


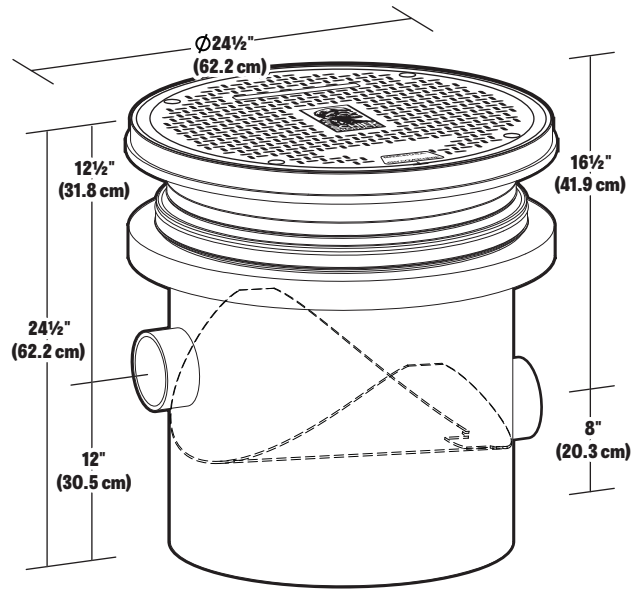
# SV24

## Sewer Viewer™ Wastewater Sampling Port Technical Data

Submittal | Special Precautions | Specifications | Installation



—flow→  
**SV24-L**



—flow→  
**SV24-O**

## SUBMITTAL

**STANDARD:** 4" plain end inlet/outlet | Highway traffic load rated, bolted, gas/water tight composite covers. (16,000 lbs.)

### OPTIONS:

- ☐ **-L** Level Connections
- ☐ **-O** Offset Connections
- ☐ **4M** 4" Male pipe thread connection
- ☐ **6P** 6" Plain End SCH. 40 Inlet/Outlet
- ☐ **C24M** Pedestrian rated cover (2,000 lbs.)
- ☐ **C24HP** H2O Load Rated Pickable Cast Iron Covers

### TeleGlide Risers

- ☐ **SR24** (x1) 4-1/2" – 23"
- ☐ **LR24** (x1) >23" – 37-3/4"
- ☐ **SR24** (x2) >37-3/4" – 42-1/2"
- ☐ **SR24** (x1) + **LR24** (x1) >42-1/2" – 57-1/2"
- ☐ **LR24** (x2) >57-1/2" – 72"

### APPROVAL:

Signature:
Date:
Company:
Specifying Engineer:
Engineering Firm:



**SCHIER**  
LIFETIME GUARANTEED  
GREASE INTERCEPTORS

MODEL NUMBER:  
**SV24**

DESCRIPTION: Polyethylene Wastewater Sampling Port

PART #: Level: 8063-001-03 | Offset: 8062-001-03 | DWG BY: B. Karrer | DATE: 4/10/2019 | REV: 3 - 10/13/2017 | ECO: 1067

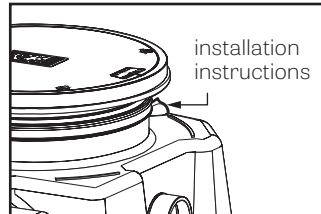


# SPECIAL PRECAUTIONS

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

## Installation Instructions

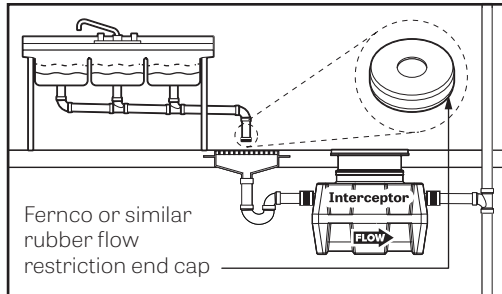
Installation instructions and additional components are included with the interceptor. Read all instructions prior to installation. This interceptor is intended to be installed by a licensed plumber in conformance with all local codes.



## When Installing Interceptor Inside

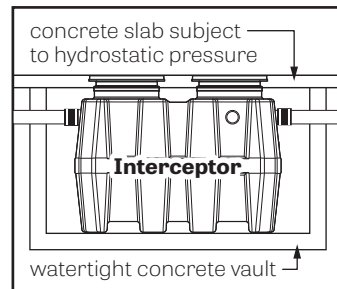
If your dishwashing sink(s) discharges into a floor drain/sink (drain), you must regulate the flow into the drain to avoid an overflow of water onto the kitchen floor. This can be done by installing a valve or flow restriction cap on the sink piping that discharges into the drain. See drawing above for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

[http://webtools.schierproducts.com/Technical\\_Data/Indirect\\_Connections.pdf](http://webtools.schierproducts.com/Technical_Data/Indirect_Connections.pdf)



## Hydrostatic Slabs (or Pressure Slabs)

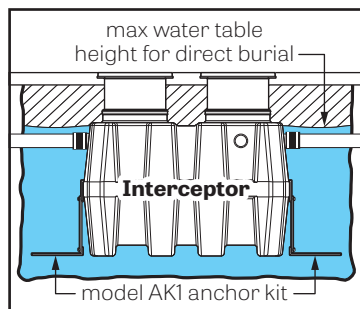
When installed under a hydrostatic slab (slab designed to withstand upward lift, usually caused by hydrostatic pressure) interceptor must be enclosed in a watertight concrete vault.



## High Water Table Installations

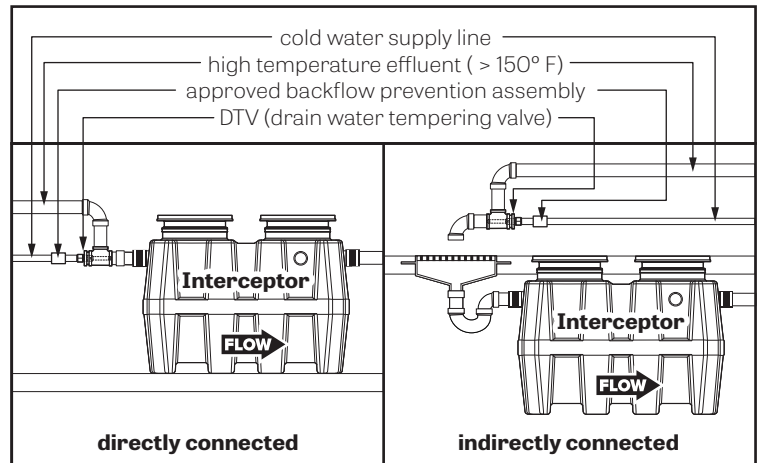
Interceptors and risers are not designed to withstand water table height in excess of the top of the unit when buried (see figure). If it is possible for this to occur, install the interceptor and risers in a water-tight concrete vault or backfill with concrete or flowable fill (wet concrete and flowable 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.

Models GB-50, GB-75, and GB-250 that are direct buried in high water table scenarios must be installed with model AK1 anchor kit.



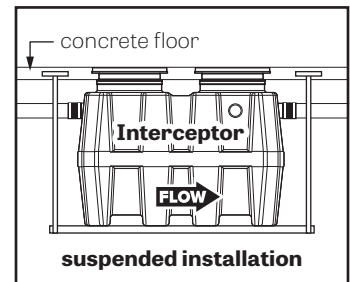
## High Temperature Kitchen Water

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).



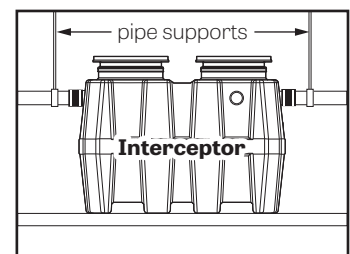
## Fully Support Base of Unit

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.



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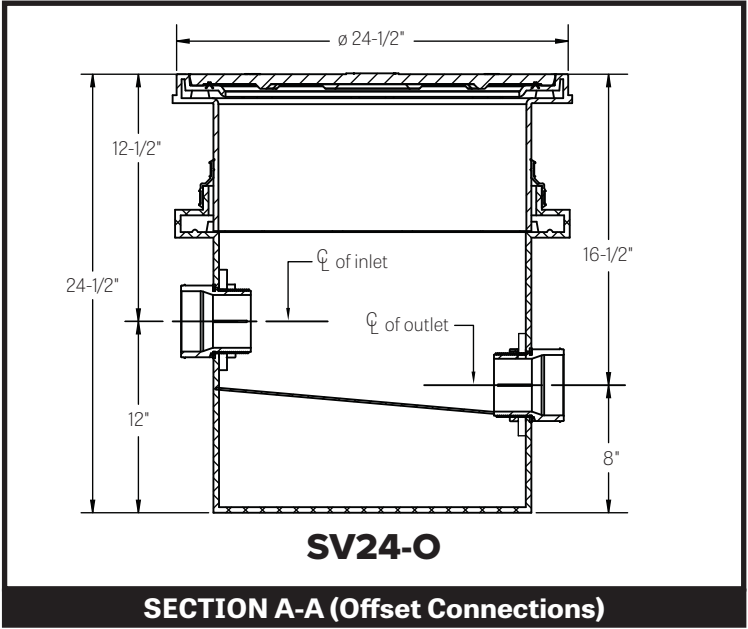
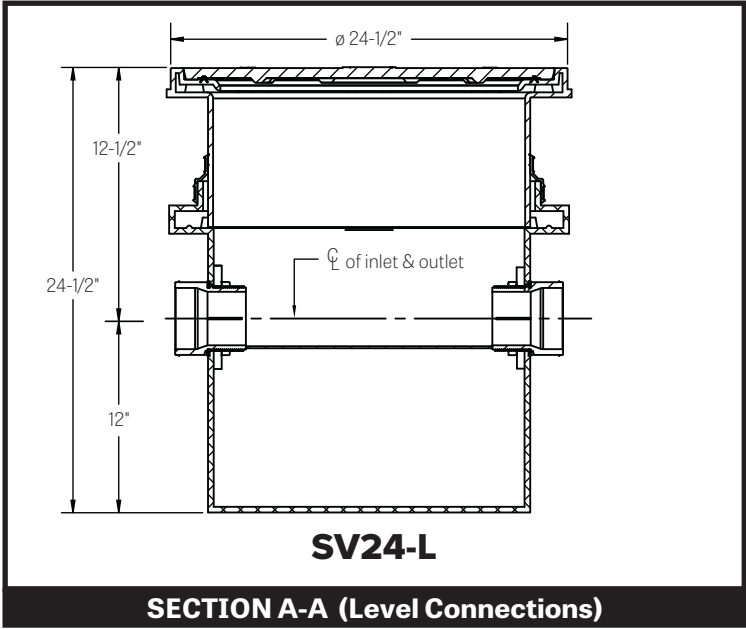
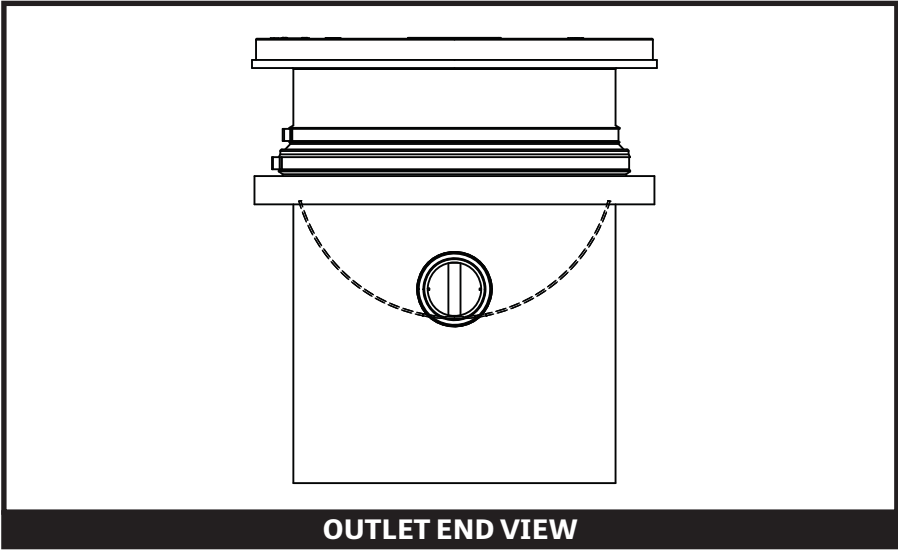
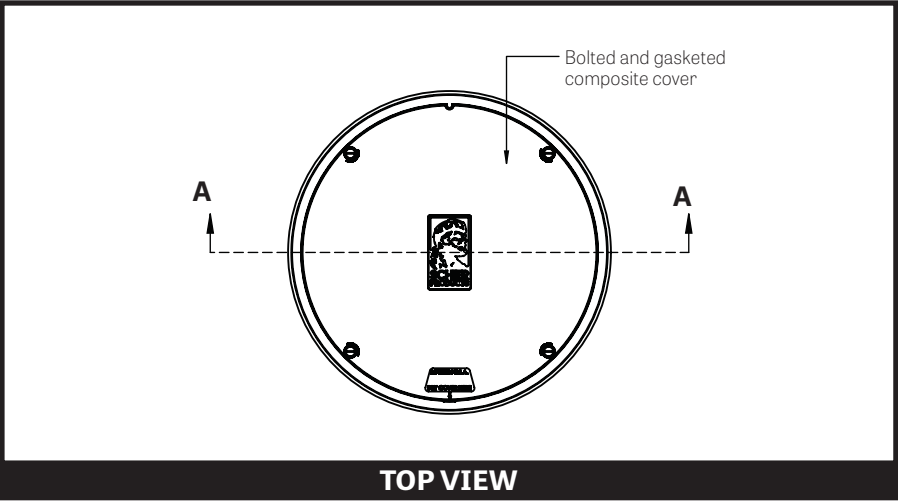
# SPECIFICATIONS

## NOTES

- 1. 4" plain end inlet/outlet
- 2. Unit weight - 65 lbs.
- 3. Unit supplied with built-in adapter for up to 3" of continuous adjustability. Additional riser(s) are also available for deeper burial depth.
- 4. Maximum operating temperature: 140° F continuous

## ENGINEER SPECIFICATION GUIDE

Schier Sewer Viewer™ sampling port model #SV24 shall be manufactured by Schier Products, Edwardsville, KS. Port shall be lifetime guaranteed and Made in USA of seamless, rotationally molded polyethylene.



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# INSTALLATION (1 of 2)

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

## LEAK/SEAL TESTING

Cap/plug all base unit plumbing connections and remove covers. **For base unit testing**, fill with water to just above the highest connection. **For riser system testing** (if required) fill with water to finished grade level. **CAUTION: Risers must be supported before filling with water to prevent tipping.** Inspect unit, connections and all gaskets and clamps (if applicable) for leaks. Check water level at specific time intervals per local code.

## GENERAL INSTALLATION INSTRUCTIONS

Consult local codes for separate trapping requirements, cleanout locations and additional installation instructions.

1. Set unit on level solid surface.
2. If unit is to be suspended above the floor ensure bottom of unit is fully supported.
3. Connect inlet and outlet drainage lines to unit. Mechanically couple pipes to unit.  
**Do not solvent weld.**
4. For unit with cast iron covers, remove retainer clips prior to burial.

**NOTE:** Do not install below a hydrostatic slab.

## BELOW GRADE INSTALLATION INSTRUCTIONS EXCAVATION

1. Surrounding soil must be undisturbed soil or well compacted engineering fill.
2. Width and length of excavation shall be a minimum of 12" greater than the tank on all sides and depth shall be 6" deeper than tank bottom.
3. Set the tank level on a 6" deep layer of well-packed crushed aggregate material and connect waste piping per General Installation Instructions.

## BACKFILL

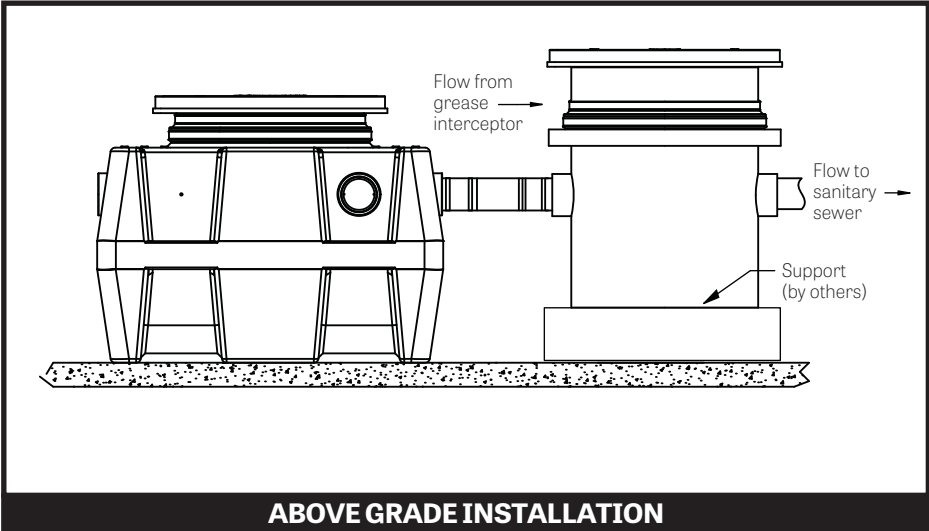
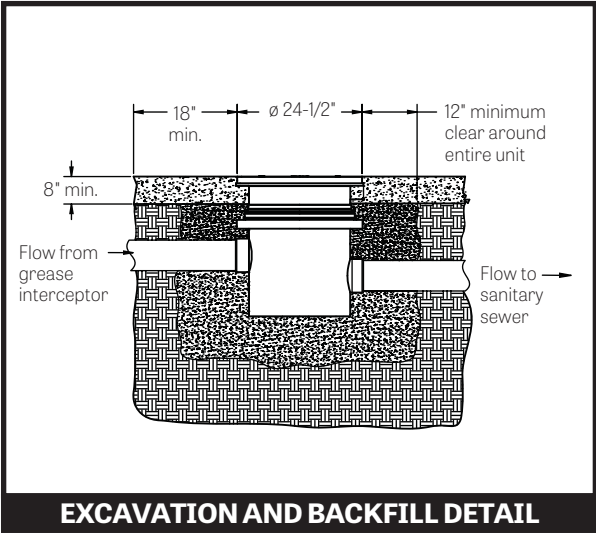
1. Preparation of sub grade per geotech recommendations.
2. Stabilize and compact sub grade to 95% proctor.
3. Fill unit with water before backfilling to stabilize unit and prevent float-out during backfilling. Secure covers and risers (if necessary) to the unit.
4. Backfill evenly around tank using crushed aggregate (approximately 3/4" size rock or sand, with no fines), or flowable fill.  
**Do not compact backfill around unit.**

## FINISHED CONCRETE SLAB

Slab must extend 18" minimum outside the footprint of the unit.

**Pedestrian traffic or greenspace areas:** 4" Thick reinforced concrete slab required.

**Vehicular traffic areas:** Minimum 8" Thick concrete slab with rebar required. Thickness of concrete around cover 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.



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# INSTALLATION (2 of 2)

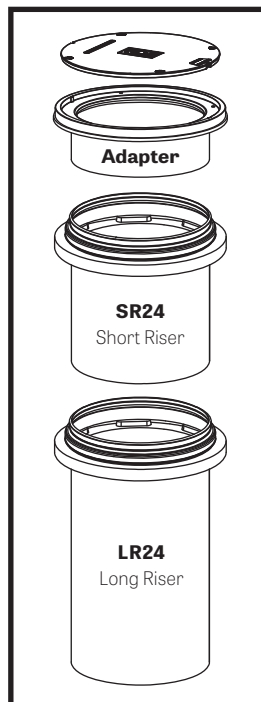
## FIELD CUT RISER (24 SERIES) INSTALLATION GUIDELINES

**Tools needed:** 7/16" Nut driver tool/bit (included), marker (included), tape measure and drill with 1/2" chuck. Jigsaw, circular saw or reciprocating saw will be needed if risers need to be cut.

**NOTE:** To remove a component or adjust its position, the Upper Band Clamp needs to be loosened or removed using nut driver bit. **The Lower Band Clamp is factory set and should not be removed.** For proper fastening ensure clamps are tightened to 5 - 8 ft lbs. of torque (same as a rubber no-hub coupling) prior to installation.

### Riser Assembly Instructions/Steps

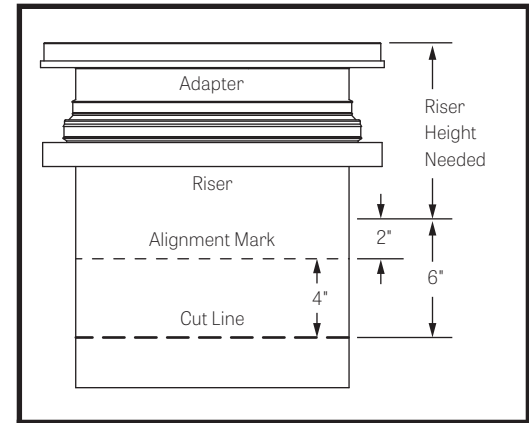
1. Set unit so the pipe connections line up with job site piping and measure riser height needed from top of cover to finished grade. See Table 1 to select risers needed.
2. Remove cover from adapter. Remove adapter from main unit. On a level surface, pre-assemble the risers and adapters, adjusting the components upwards or downwards to achieve the riser height needed. Make sure to maintain minimum and maximum insertion depths as shown in Figure 2. If components are too long, make a circular line around the sidewall with marker and cut with a power saw. The lowest cut line on the riser assembly will be 6" beyond the riser height needed to allow for ideal insertion depth (See Figure 1). An alignment mark should be drawn 2" beyond the riser height needed which will align with the top of the base unit gasket. **DO NOT** cut the alignment mark. The Adapters and risers should sit level with each other. Tighten upper clamps to keep riser/adapter assembly from shifting. Make alignment marks on the sidewalls at the top of all riser gaskets to aid final assembly.
3. Take apart riser assembly and clean all sidewalls and insides of gaskets to remove dust/debris. Install components into the main units starting from the lowest riser and work your way up to finished grade. Maintain minimum and maximum insertion depths for all components (see Figure 2). Tighten Upper Clamps to specified torque after correctly positioning components. Riser assembly may need to be supported during backfill.
4. If tilting of the adapter is required to be flush with grade, do so AFTER all clamps have been tightened with riser(s)/adapter in a vertical and level position. Tilting is done using gasket flexibility. Tilting before tightening clamps may ruin a perfect gasket seal. Schier recommends tilting only the adapter versus the entire riser assembly to make sure your riser height and proper tank access is maintained.
5. If riser height conditions change after completing above steps, there may be room for adjustment. As long as minimum and maximum insertion depths are maintained (see Figure 2), the adapters/risers can be adjusted/cut as many times as necessary. When riser system installation is complete, see Leak/Seal Testing procedure if required (pg 3 of 6).



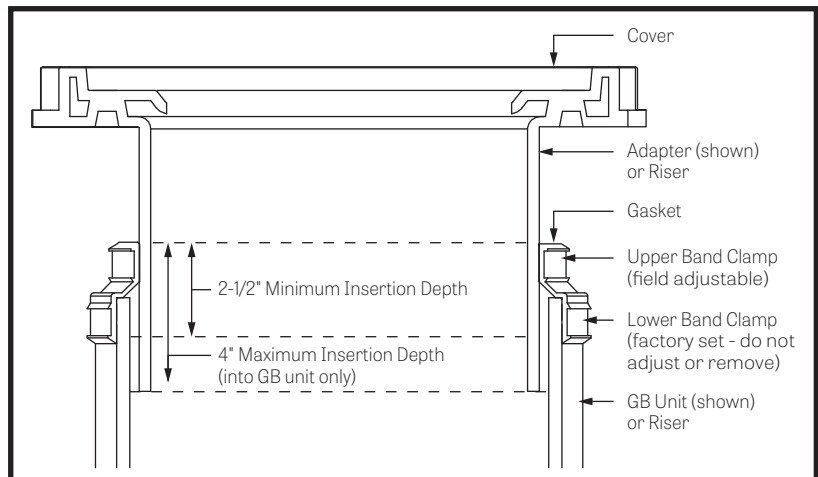
**Field Cut Riser Components**

**Table 1**

Riser Height Needed	Risers Required
0" - 3"	None (use adapter)
4-1/2" - 23"	SR24
>23" - 37-3/4"	LR24
>37-3/4" - 42-1/2"	SR24 (x2)
>42-1/2" - 57-1/2"	SR24 + LR24
>57-1/2" - 72"	LR24 (x2)



**Figure 1 - Riser Measurements**



**Figure 2 - Insertion Depths**



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