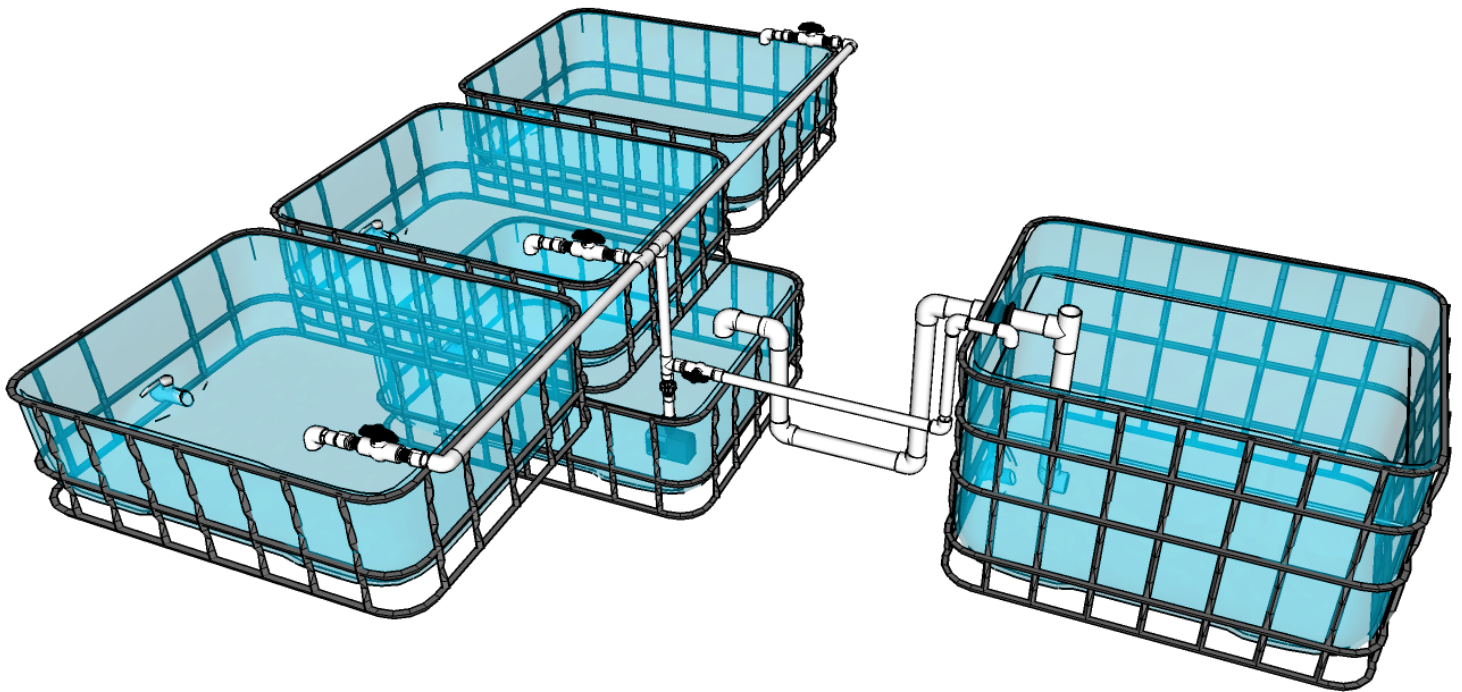


SS2/SS3 Plumbing Kit

1



Assembly Instructions



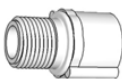










Pictured with a 3 bed SS3 System and IBC tanks. Also compatible with Aquabundance Grow Beds and Fish Tanks.

SS2/SS3 Plumbing Kit

2




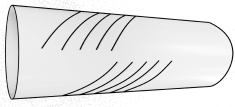

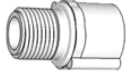


Picture	Install Reference	Description	SS2	SS3
	A	2" Bulkhead FTP X Slip	1	1
	I	2" Slip Slit Cap	1	1
	H	2" MPT x Slip	1	1
	K	2" Tee Slip X Slip	1	1
	L	2" Elbow Slip x Slip	6	6

Picture	Install Reference	Description	SS2	SS3
	A	Pump (Sold Separately)		
	B	Pump Adapter	1	1
	C	1" Union Slip X Slip	1	1
	D	1" Tee Slip	3	4
	E	1" Ball Valve Slip X Slip	4	5
	G	1" Elbow Slip x Slip	6	7

SS2/SS3 Plumbing Kit

3



Picture	Install Reference	Description	SS2	SS3
		1" Bulk Head FPT X Slip	2	3
		4" Media Guard	2	3
		2" Bell Siphon	2	3
	B	1" MPT x Slip	2	3
		1" Pre-cut Stand Pipe	2	3
		Return Pipe	4	6

Other Tools and Materials NOT INCLUDED

Drill	Tape measure	Hole Saw – 3"
Pump	2" PVC	Hole Saw – 1 3/4"
Teflon Tape	1" PVC	
Pipe Dope	PVC Glue	

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SS2/SS3 Plumbing Kit

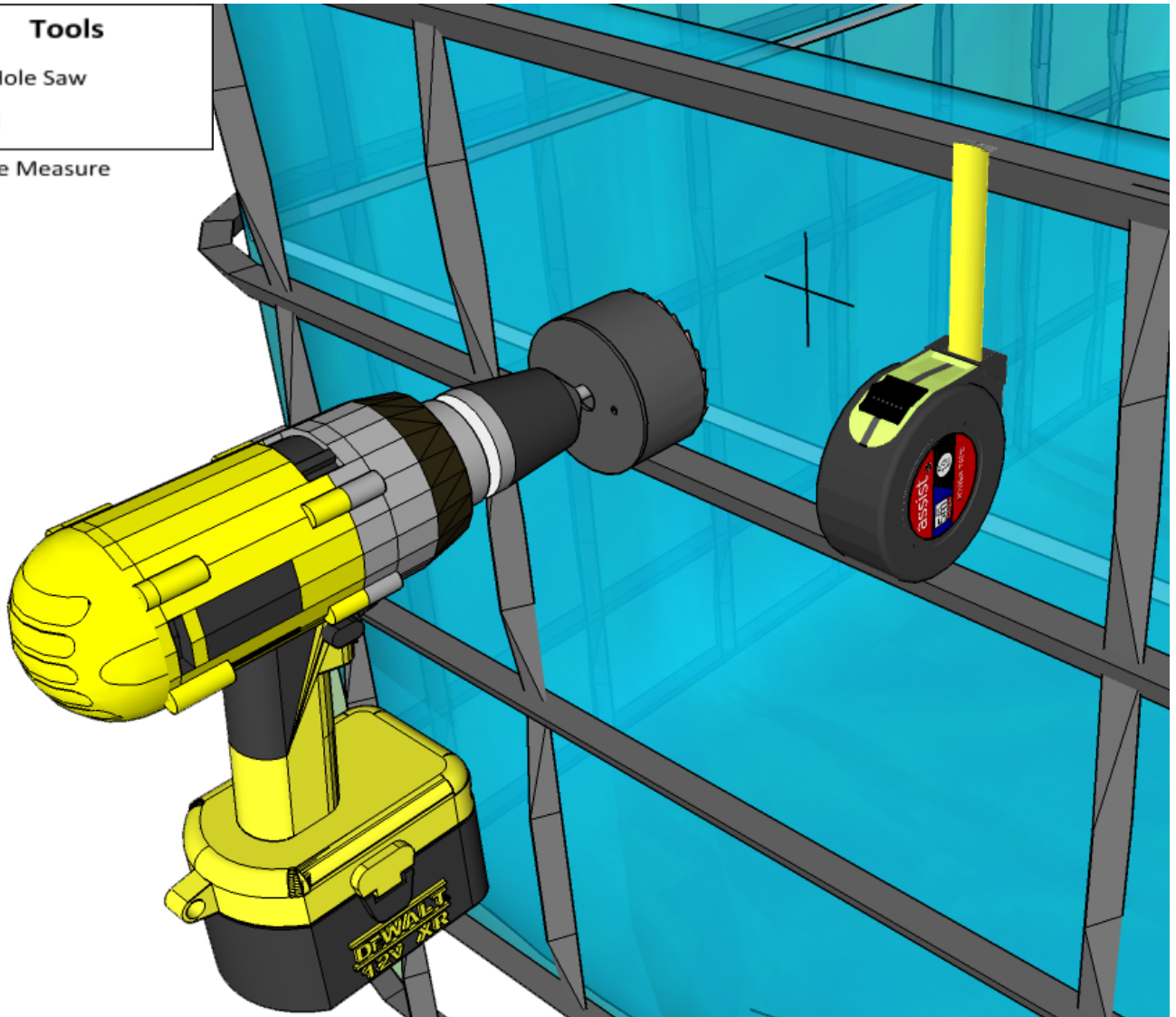
4



Drill Fish Tank Water Outlet Hole

Tools

- 3" Hole Saw
- Drill
- Tape Measure



The bottom of this 3" hole will dictate the height of the water level in your fish tank. Ensure the center of the hole is at least 4" below the top of the tank.

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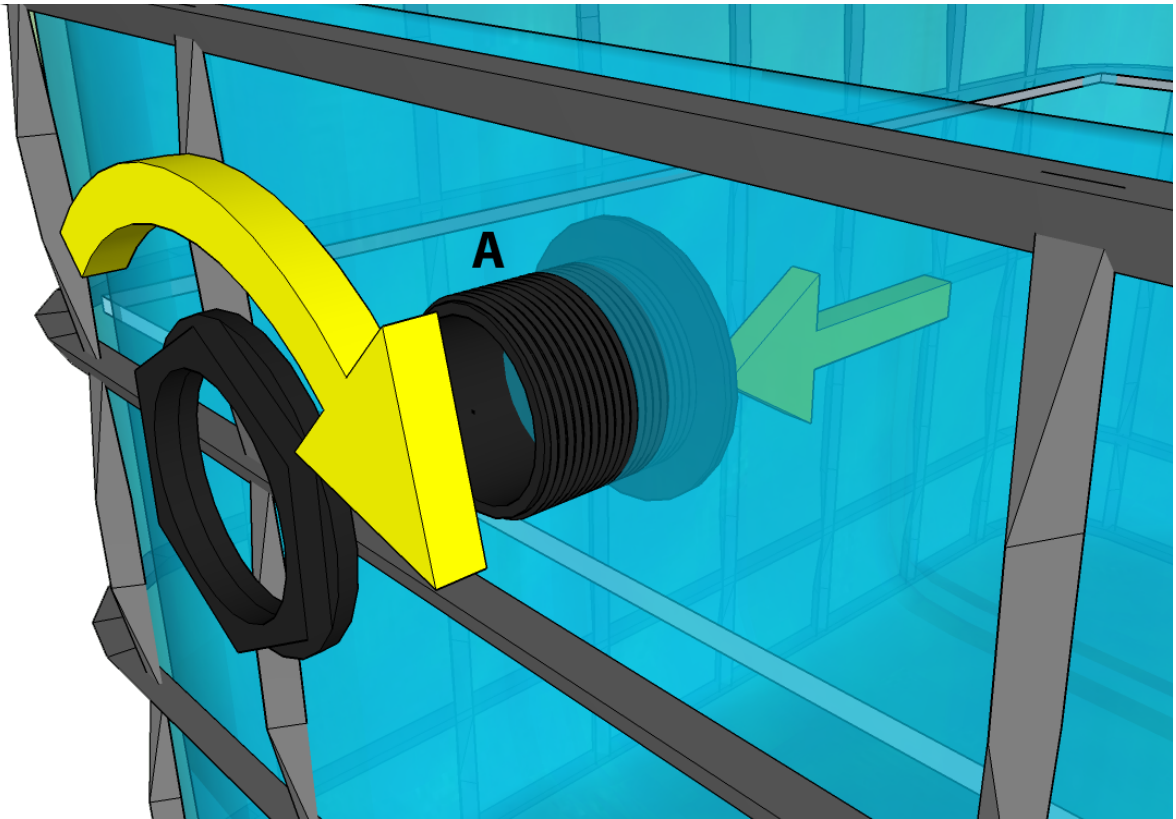
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SS2/SS3 Plumbing Kit

5



Install Fish Tank Bulkhead



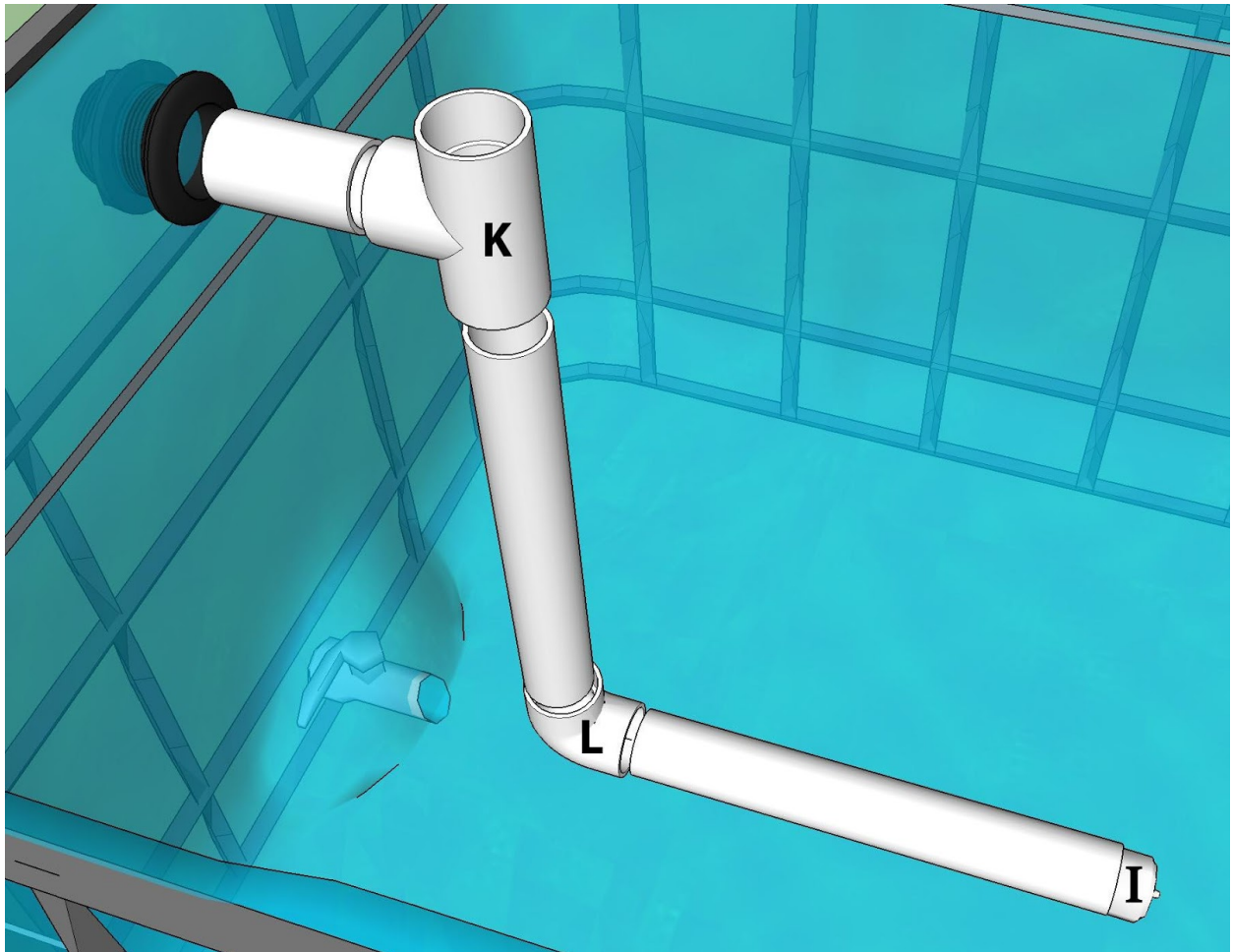
Install fish tank bulkhead. The 2" Bulkhead should fit in the 3" hole. Ensure that the "Slip" side of the bulkhead and the black rubber gasket are located inside the fish tank with the threaded (FPT) side extending outside of the tank. If you wish, silicone can be applied between the black rubber gasket and the fish tank wall at this time. Hand tighten the bulkhead nut.

SS2/SS3 Plumbing Kit

6



Solid Lift Outlet (SLO) Assembly



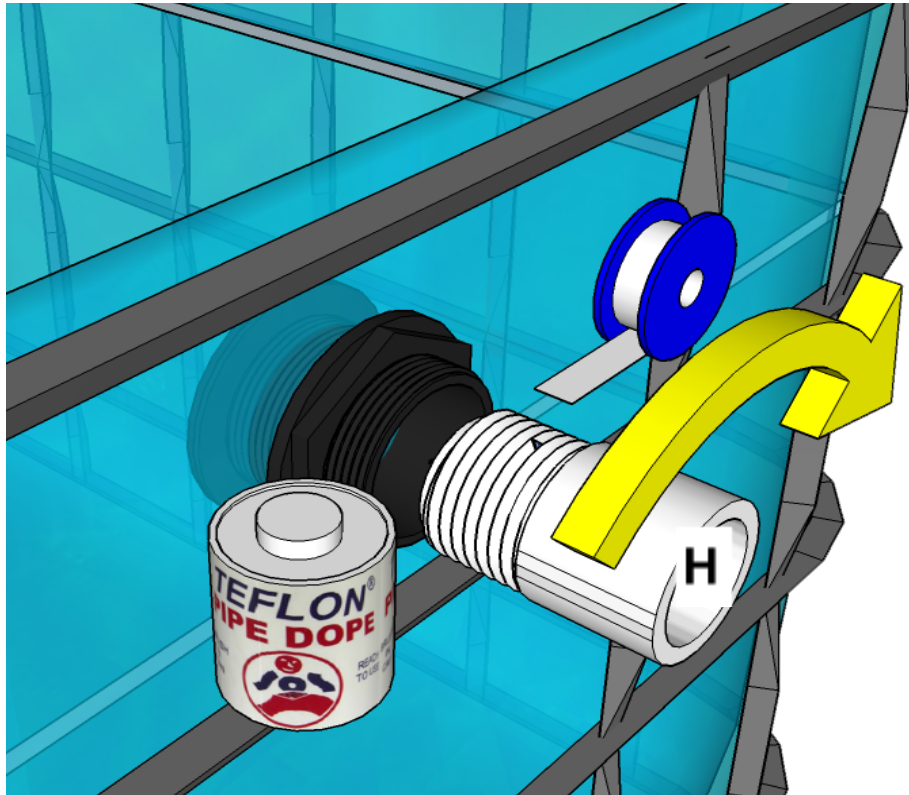
The Solid Lift Outlet (SLO) is designed to lift solid fish waste and other decomposing material from the bottom of the fish tank, where it naturally settles, and deliver it to the sump tank. As these items will be submerged and require periodic maintenance, do not glue.

SS2/SS3 Plumbing Kit

7



Install Fish Tank Outlet Adapter



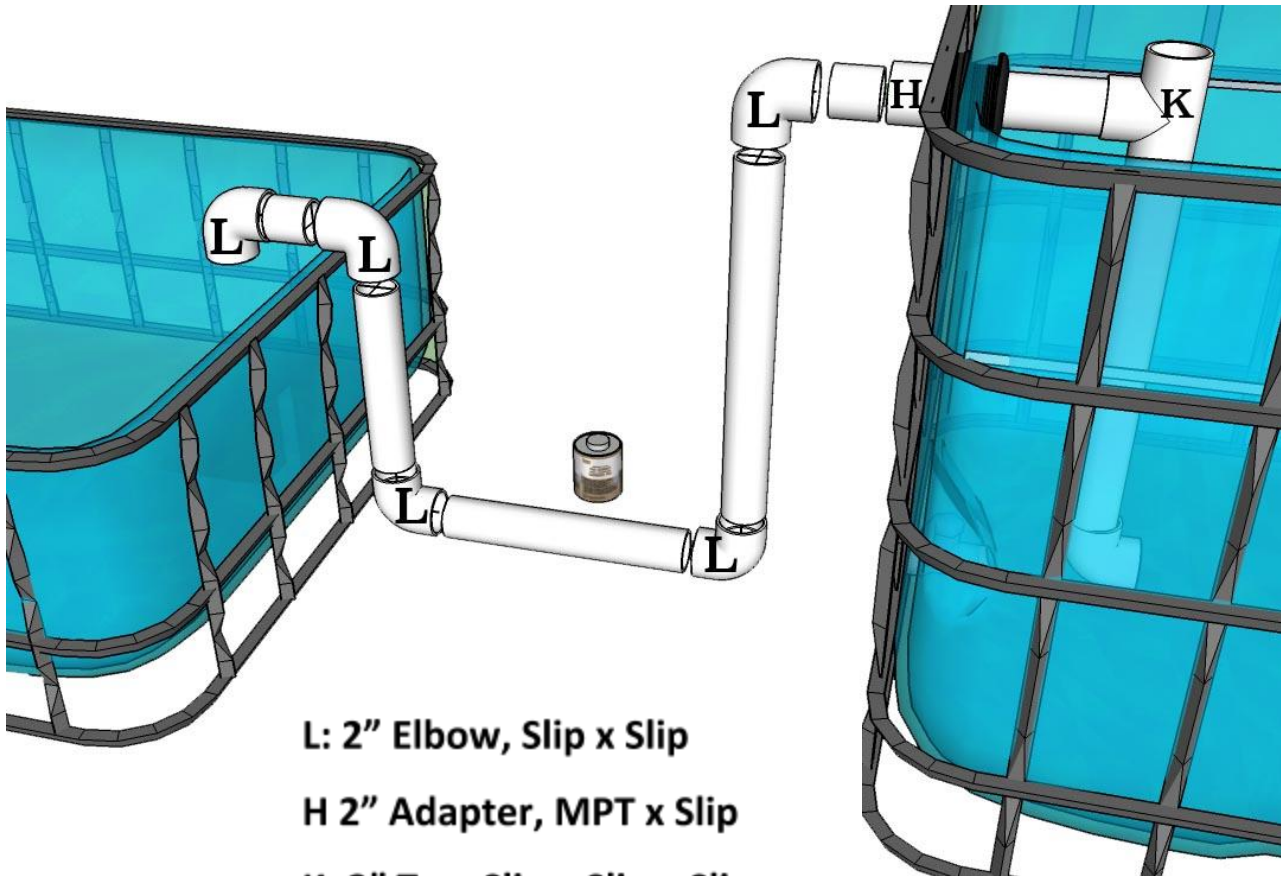
Install the 2" Slip x MPT Adapter in the fish tank bulkhead. The adapter is the beginning of the plumbing run to the sump tank. Like the bulkhead, this is known as a "leak path" and warrants some additional installation steps. Apply Teflon tape and pipe dope to the threads of the adapter. Hand tighten and snug with channel locks.

SS2/SS3 Plumbing Kit

8



Install Fish Tank to Sump Tank Plumbing



L: 2" Elbow, Slip x Slip

H 2" Adapter, MPT x Slip

K: 2" Tee, Slip x Slip x Slip

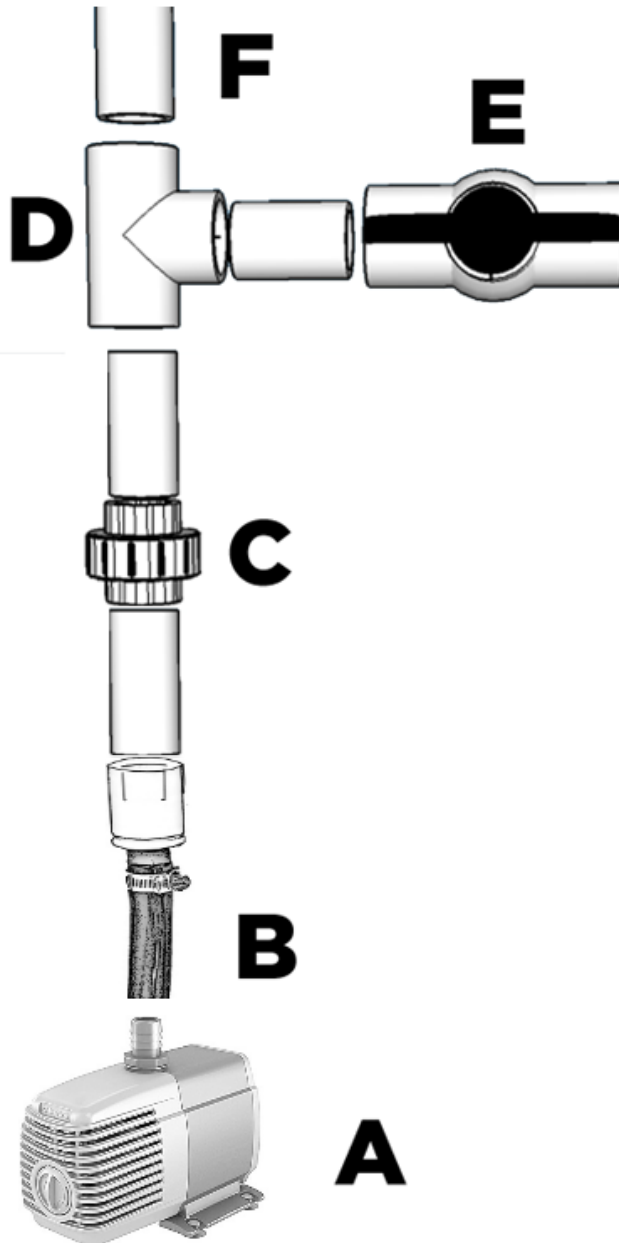
The fish tank outlet plumbing will take water from the fish tank and deliver it to the sump tank via gravity flow. The lengths of 2" PVC pipe will vary depending on fish tank location, sump tank location, elevation and layout. This aquaponics system is designed to have your sump placed directly below your grow beds. PVC Glue should be applied to these joints.

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SS2/SS3 Plumbing Kit

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A: Pump

B: Pump Adapter

C: 1" Union, Slip x Slip

D: 1" Tee, Slip x Slip x Slip

E: 1" Ball Valve, Slip x Slip

F: 1" PVC Pipe

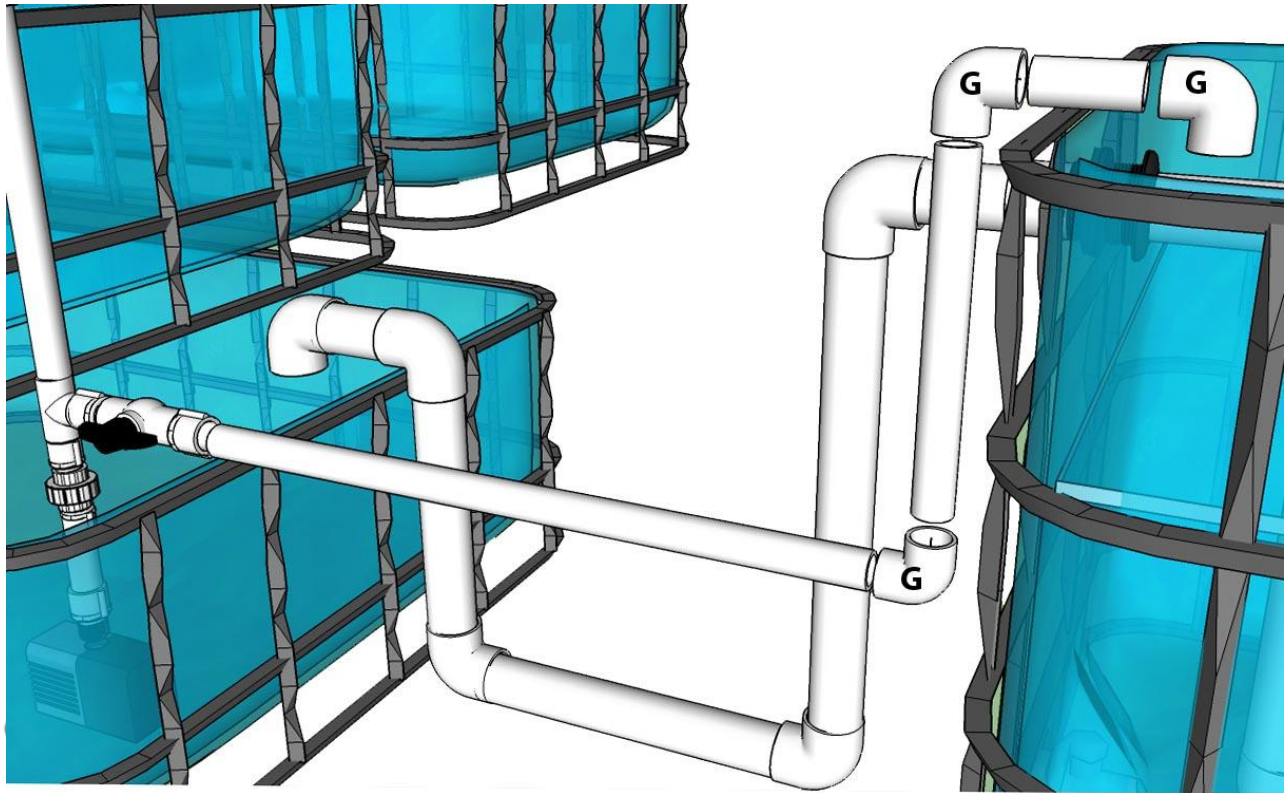
The pump will be located in the sump tank. Valve (E) will be used to return water from the sump tank to the fish tank. Pipe (F) will be used to deliver water to the grow bed supply manifold.

SS2/SS3 Plumbing Kit

10



Assemble Sump Tank to Fish Tank Return Plumbing



This plumbing assembly will supply water from the sump tank and return it to the fish tank, thus ensuring that it is a recirculating aquaponic system. Because of the high pressure from the pump, we recommend that you glue all joints.

Tested on 2 4x4 beds
at 3' head lift with a
550 GPH pump

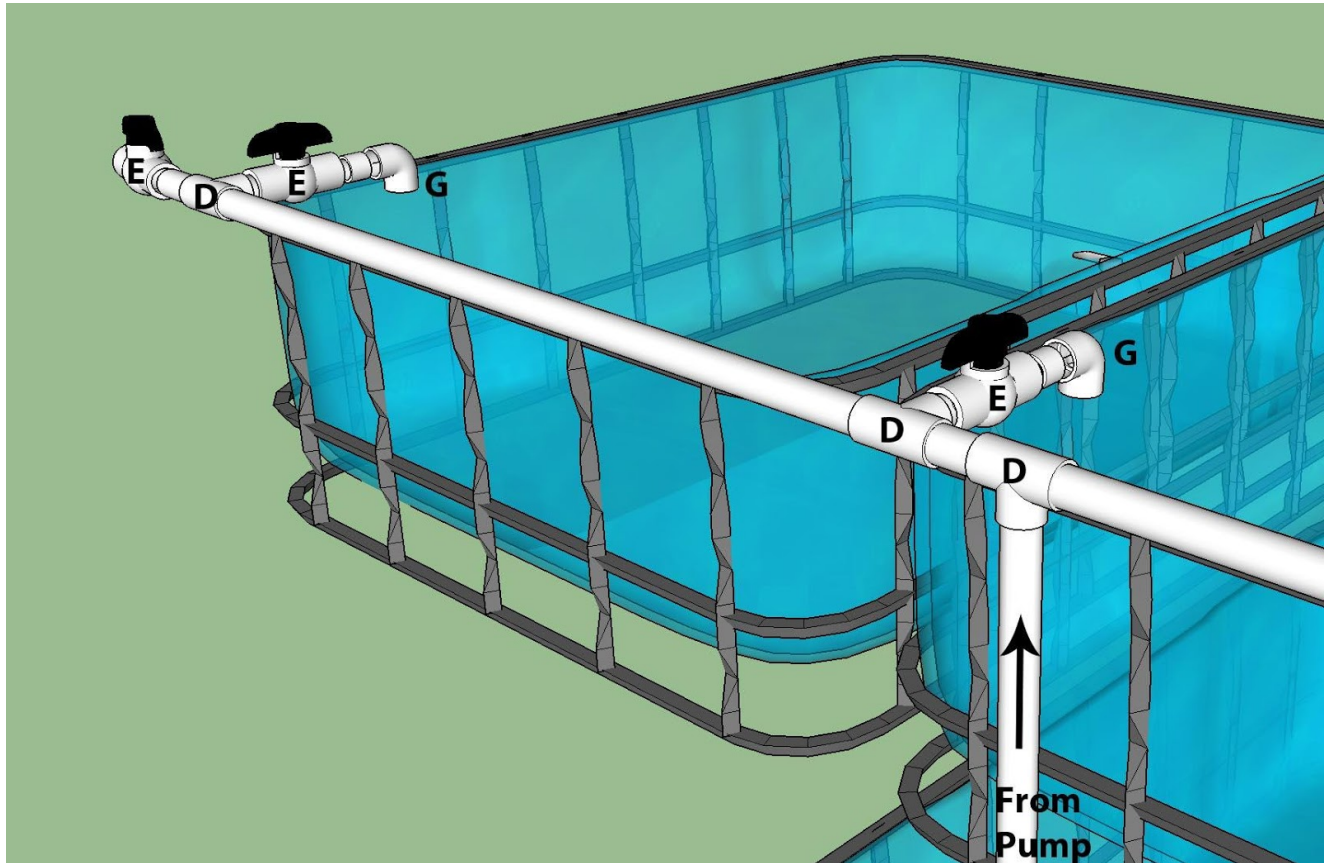
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SS2/SS3 Plumbing Kit

11



Assemble Growbed Supply Manifold



***See Bell Siphon Assembly Instructions**

The supply manifold will deliver water from the sump tank to the grow beds. Each grow bed requires a valve to control the flow. Water pressure is lower at this point in the system. However, the supply manifold is one of the most heavily used, moved and adjusted assemblies in the system, thereby making it more prone to leaking. Gluing joints is a prudent decision here. If you have the SS3 Kit, the third grow bed (not pictured) can be added