



Replacing Tank Gaskets

**So, the time has come to
change the tank gaskets
you say? Well then, let's
dive into it!**

The most thorough way to perform this swap is by removing the tank from the machine and standing it upright, so we will start with the disassembly process.

Tools Needed

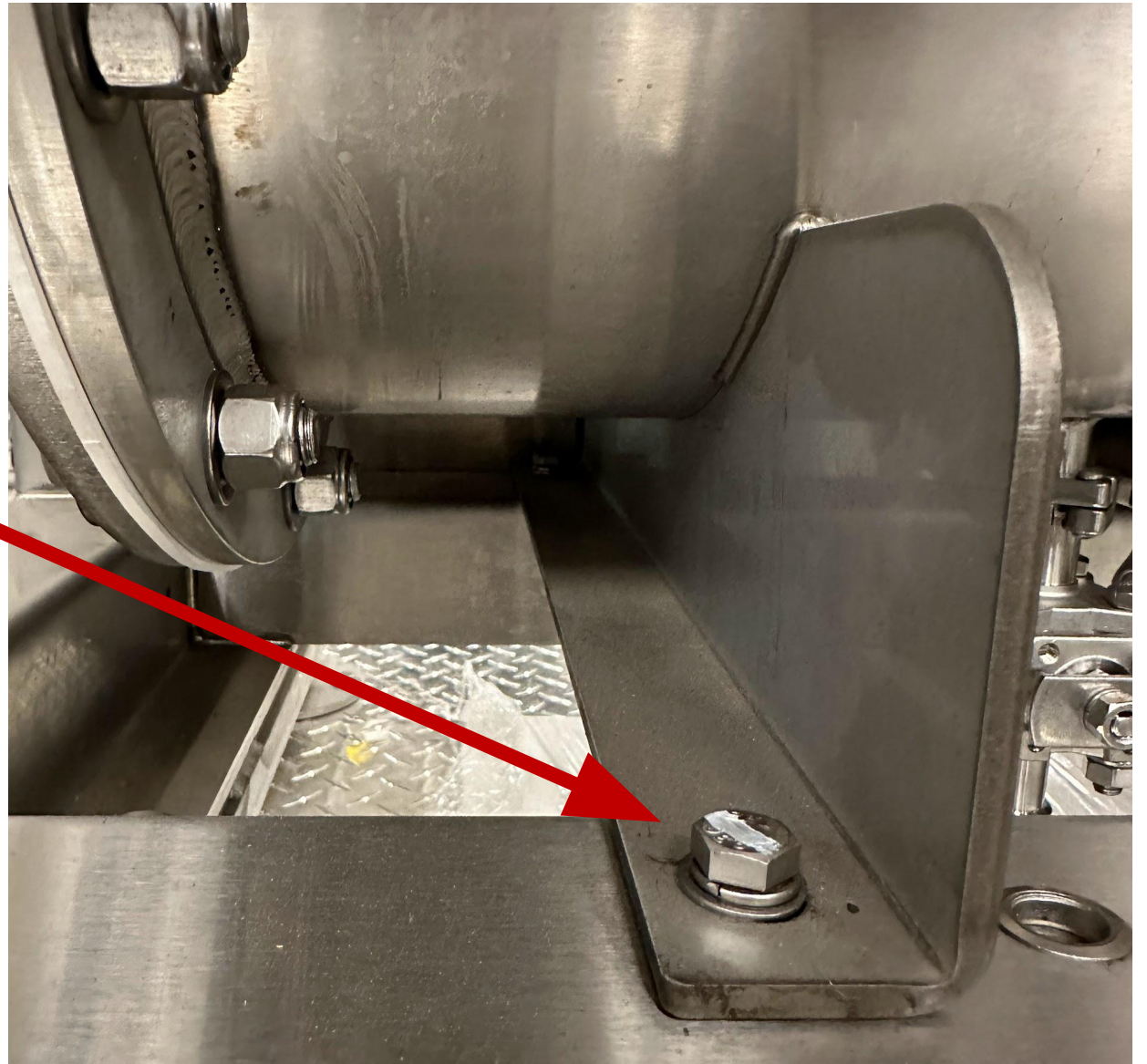
You will need a torque wrench set to 15 ft/lbs

Socket - $\frac{3}{4}$ "

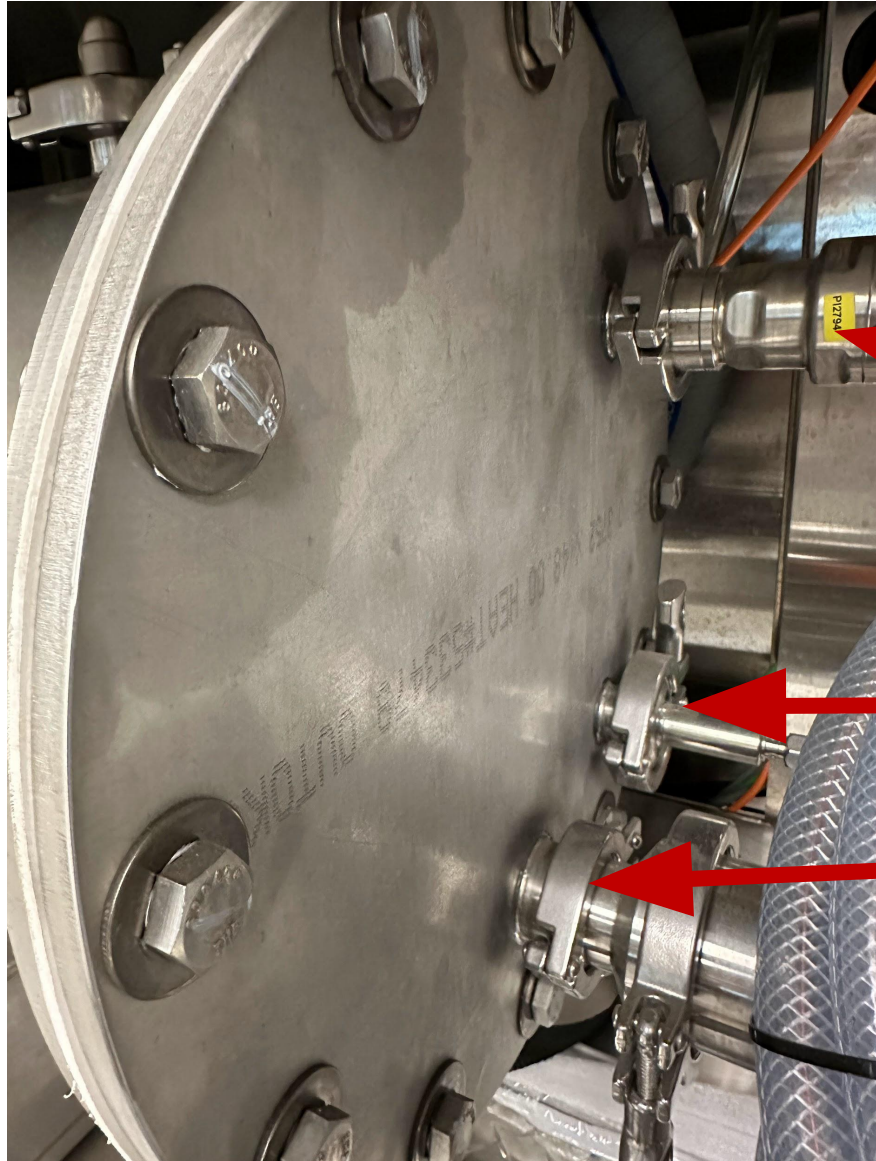
Wrench - 8mm, $\frac{1}{2}$ ", $\frac{3}{4}$ "

Base Disassembly

On the base of the tank, there are 4 bolts attaching it to the frame. Go ahead and remove those first.



Inlet Disassembly



On the inlet side of the bowl, we have 3 tri-clamp connection that we need to remove. Pay attention to the specific gaskets used.

Tank Pressure

Tank Temp

Product inlet

Top Disassembly

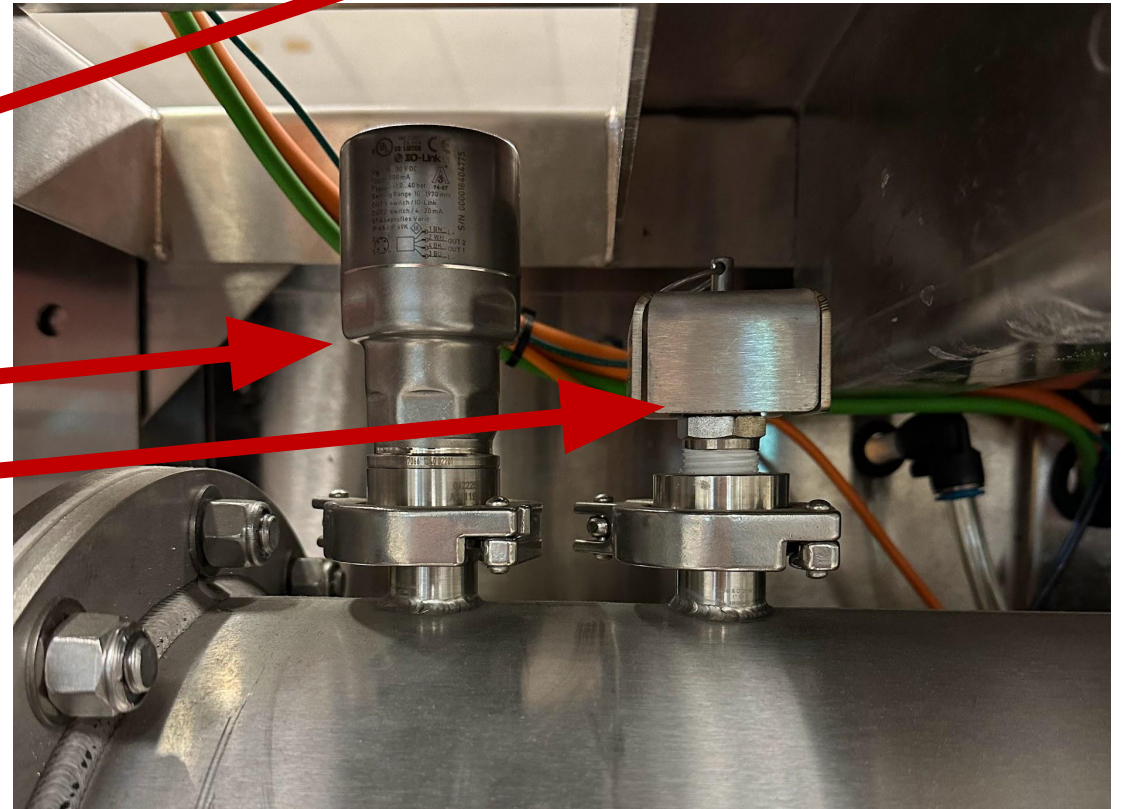
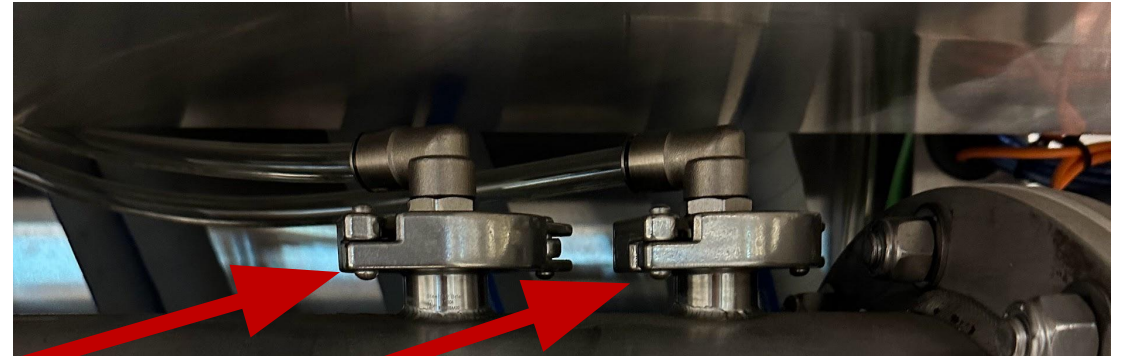
On the top of the bowl, we have 4 tri-clamp connection that we need to remove. Pay attention to the specific gaskets used.

Co2 to Tank

Tank to Atmosphere

Tank Level Sensor

PRV



Level Sensor Disassembly



The process of removing the tank level sensor can be a bit tedious. The most efficient way is as follows:

Unplug the sensor from the back of the unit by turning the metal tab counter clockwise.

Level Sensor Disassembly

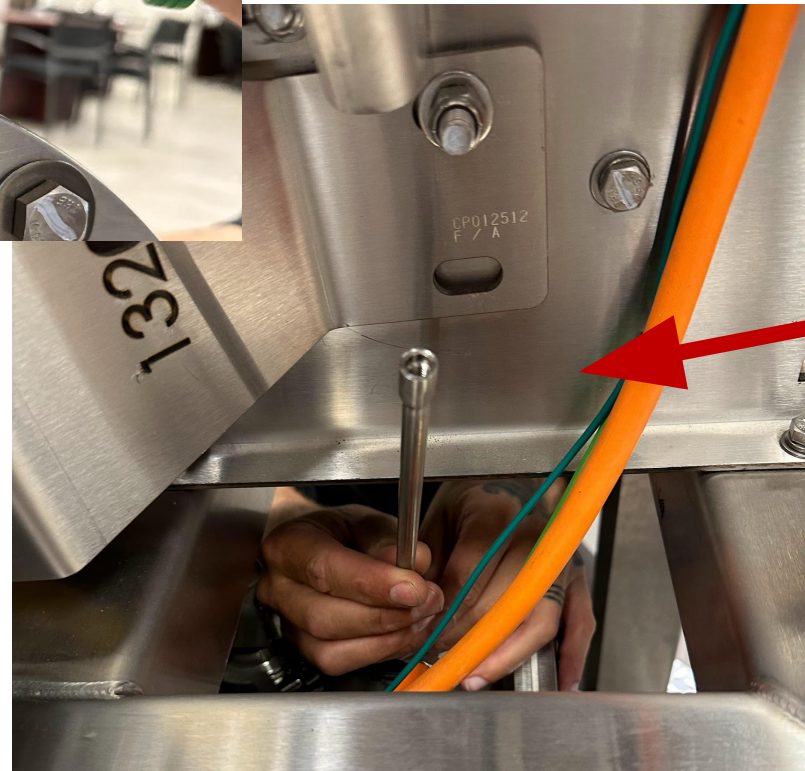
Remove the tri-clamp and lift the unit up to expose the spear attached to the bottom of the unit. You will notice the top of the spear has a flattened groove for an 8mm wrench.



Level Sensor Disassembly



Use an 8mm wrench and remove the spear from the unit by turning the spear counter clockwise unscrewing it from the sensor body.



The easiest way to get the spear out of the tank is to snake it out between the conveyor and motor. If you drop it inside the tank at this stage, not a huge deal, it's when we reassemble that you be cursing up a storm if it slips out of your hand and falls into the bowl.

Far Side Disassembly



On the far side of the bowl, we have 1 tri-clamp connection that we need to remove.

Cap

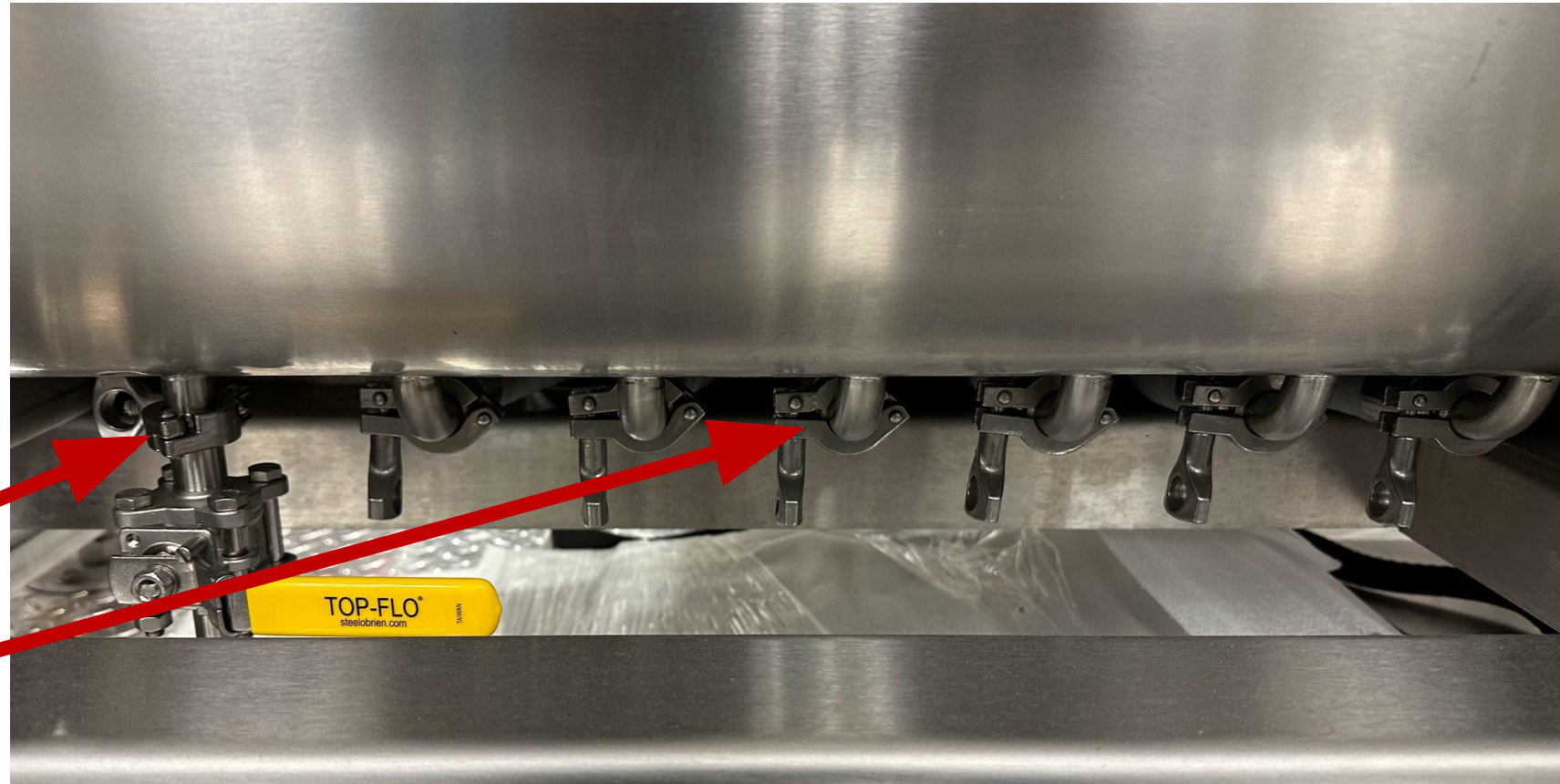
Bottom Disassembly

On the bottom of the bowl,
we have our product hoses
and dump valve.

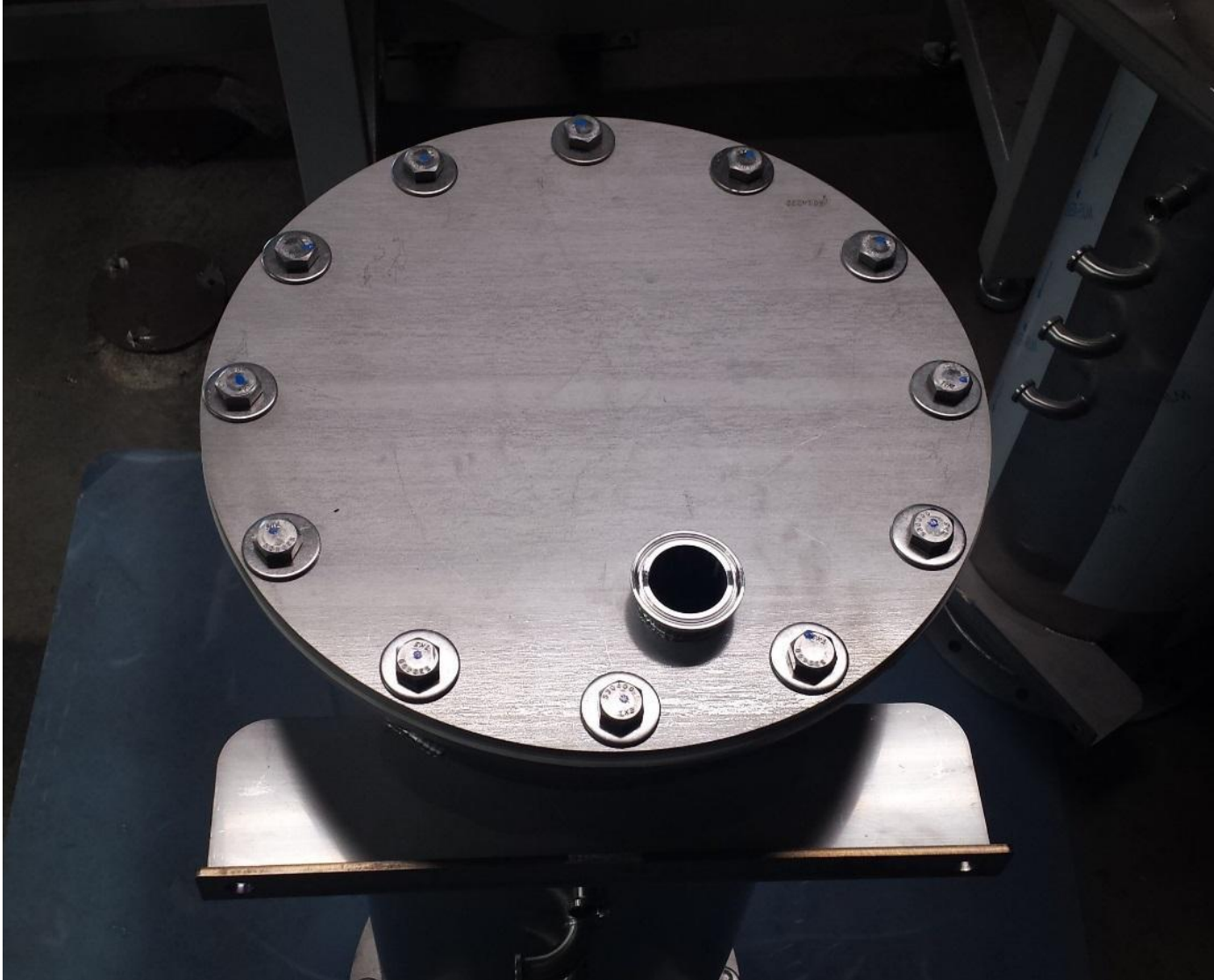
6 head fillers will have 7
tri-clamp connections, and 3
head fillers will have 4
tri-clamp connections that we
need to remove.

Dump Valve

Product Lines



Removal



Now that everything is removed, with the help of another person you can remove the tank from the frame and set it upright on the ground. It is best to put down a work mat or some cardboard first.

Use a $\frac{3}{4}$ socket and wrench to remove all 12 bolts holding the end plate onto the bowl.

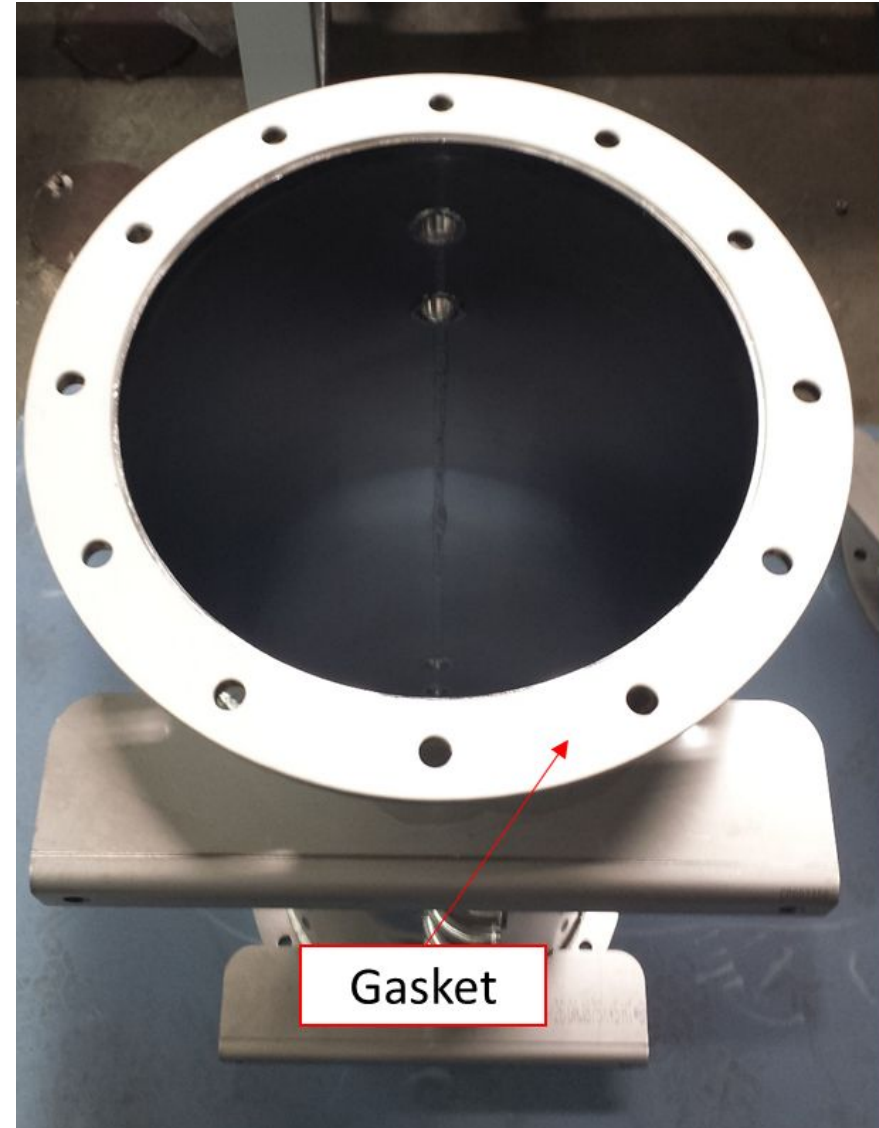
At this stage, there is no order to it, they all just need removed.

It is also best to complete a swap on one side of the tank, then flip and do the other.

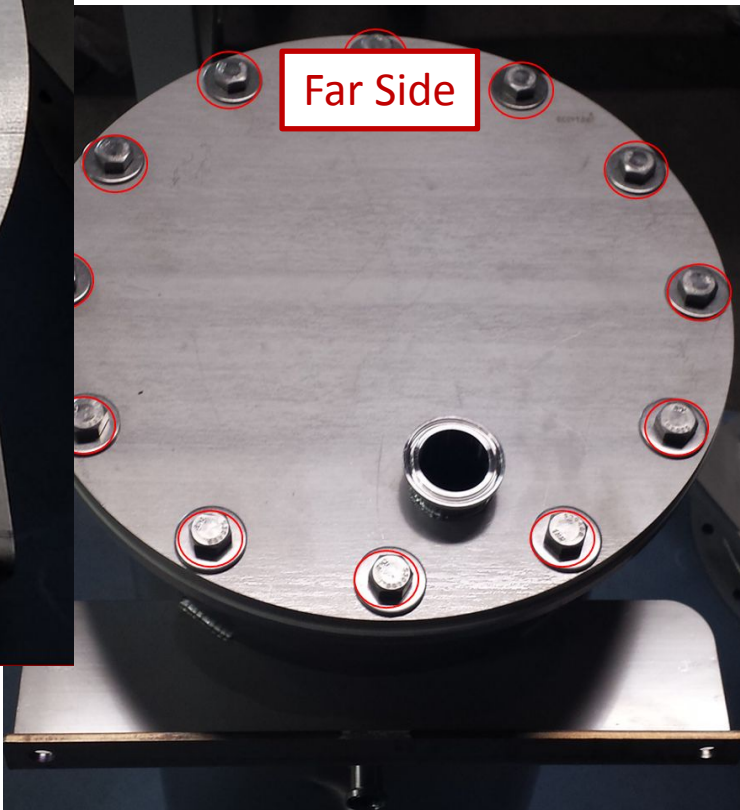
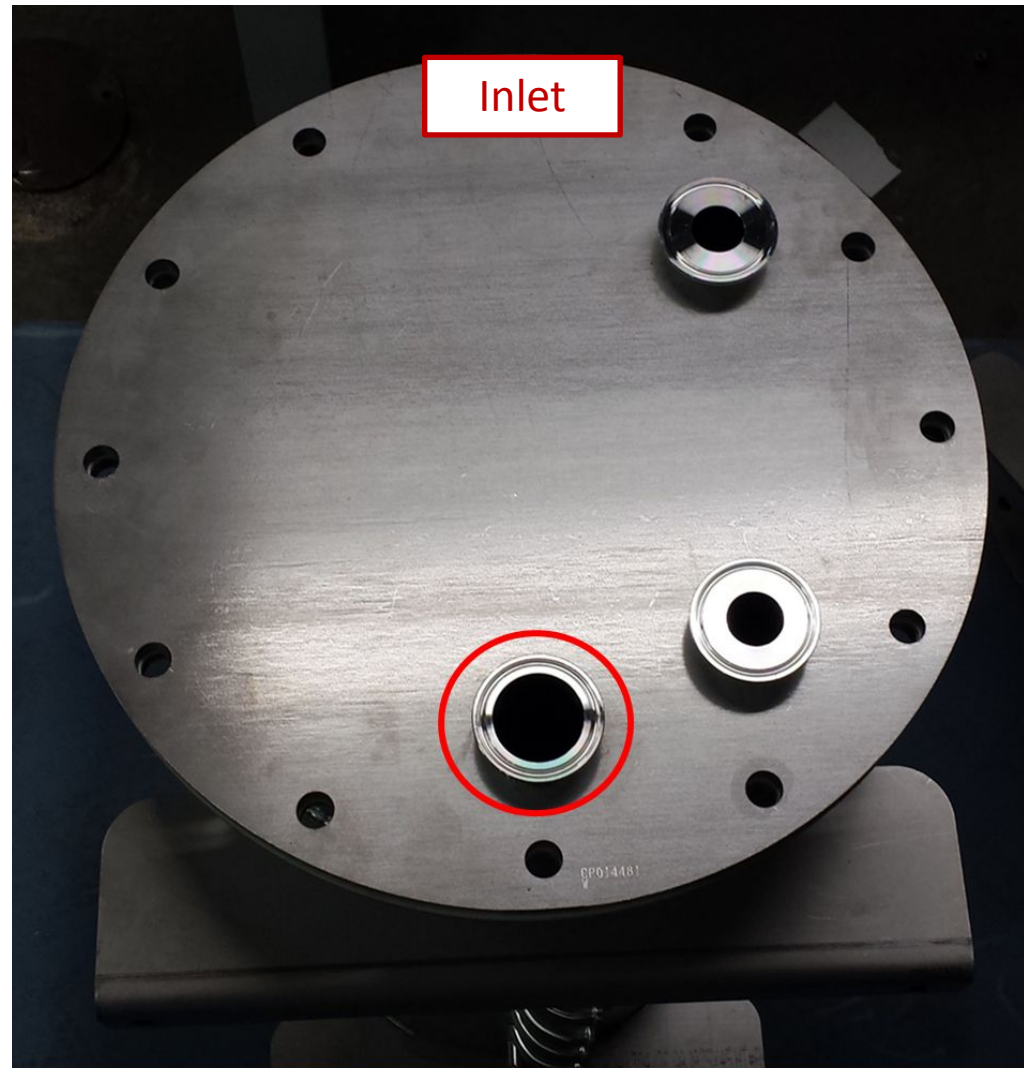
Assembly

With the end cap off the tank and set aside, clean the flange of the tank well with Isopropyl alcohol, as well as the gasket.

Lay the gasket out gently, lining up all the holes of the gasket with the tank.



Assembly



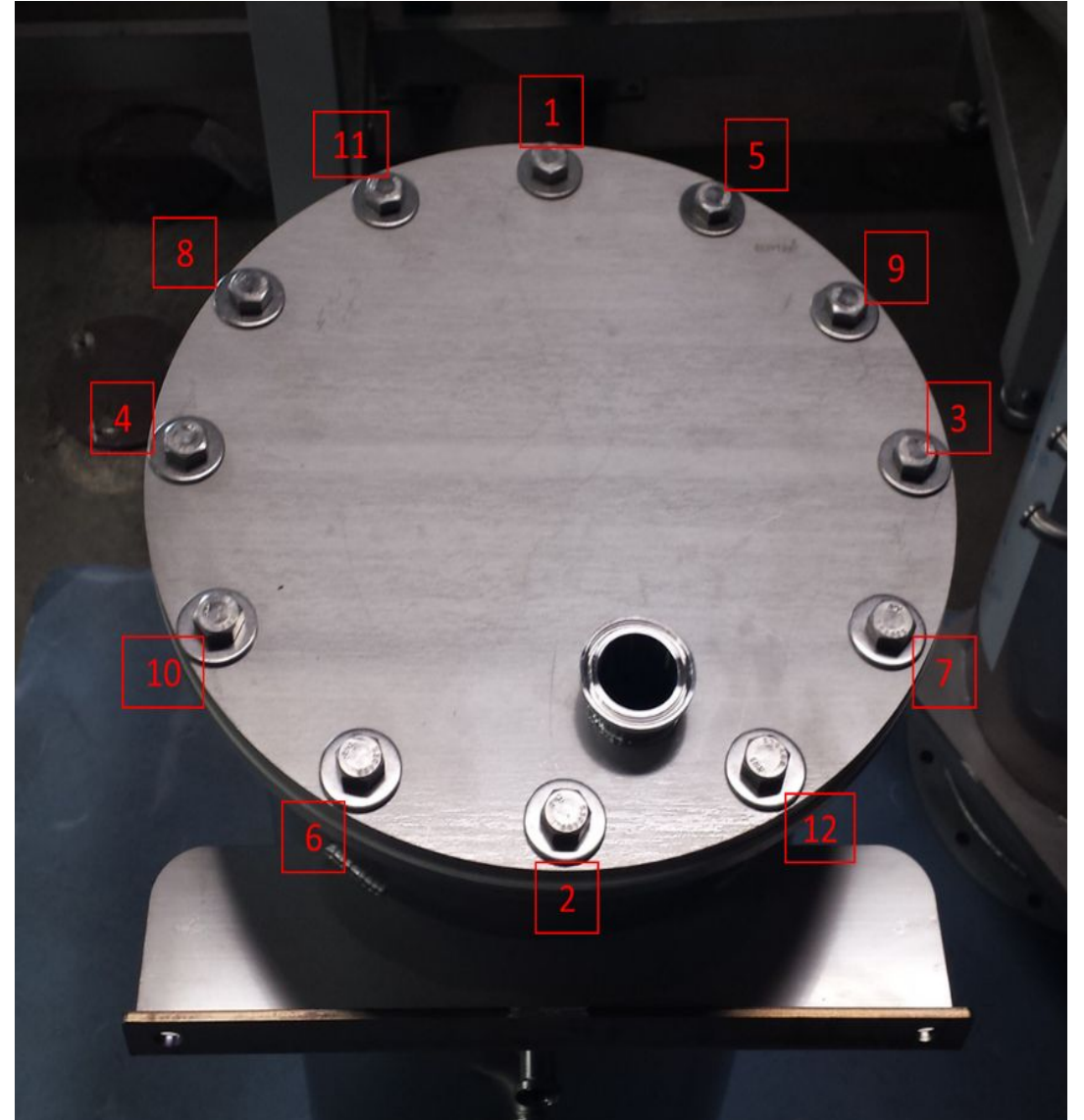
After cleaning the end cap itself with Isopropyl as well, carefully lay it down on top of the gasket with the bolt holes aligned. The gasket likes to slide or shift during this process so do so slowly and gently to make sure everything stays put.

It is also very important to make sure the orientation of the end cap is correct. In these 2 photos, we can see the orientation of the end caps.

Have the inlet side of the tank with the position of the circled product inlet port aligned at the very bottom of the tank. The far side of the tank will have the port just above the bottom.

Assembly

It is now time to affix all 12 of our bolts attaching the end cap securely to the tank. Note the number pattern on the picture shown here, this shows the order in which we will be tightening down these bolts.



Assembly



The bolts will have 2 washers with them that are different sizes, the larger washer will be on the outside against the bolt head, with the smaller washer inside against the Nylock.

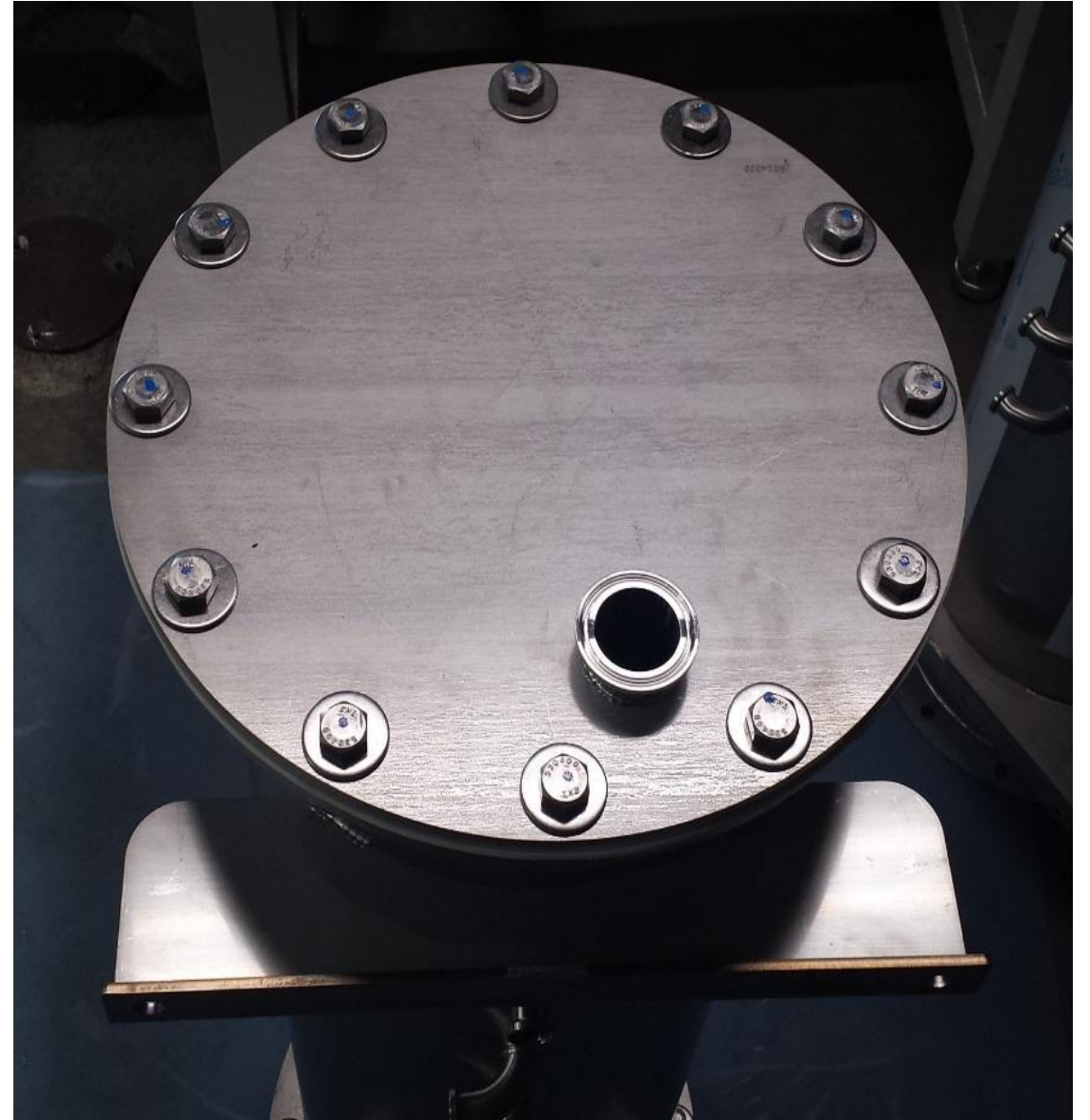
Use a standard $\frac{3}{4}$ " socket and wrench to get the bolts most of the way tightened up till they meet the plate without compressing the gasket.

Once all the bolts are tightened against the plate, use a torque wrench set to 15 ft/lbs to tighten them down the rest of the way in the pattern shown on the last slide.

Assembly

As you tighten down the bolts in the pattern shown previously, it helps to put a sharpie mark, or paint pen dot on each bolt to keep track of your progress.

After they are all tightened down, it is now time to reinstall the tank onto the machine.



Assembly



Place the tank back onto the frame but do not tighten down the 4 securing bolts quite yet. We will first make the product inlet connection.

After the product inlet is connected, you can secure the 4 bolts at the base of tank to the frame, and carry on with the remainder of your connections. You can even work backwards through the disassembly portion of the guide.

Closing Statements and Notes

- There are a couple different gaskets used on various sensors and hoses, makes sure they go back to their specific locations
- When reconnecting the fill hoses at the bottom of the tank, be sure the corresponding fill heads stay in line to their connections down low.
- It is best to do this swap with the machine powered off, but if you're just now reading this and it was powered on the whole time, it's not a huge deal. You may just need to power cycle for a couple of the sensors to start communicating again.

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