



## The Dry Hopper

### Parts List

The Dry Hopper comes with the following parts:

1 x TC15prv-tube

1 x TC15 corny adapter

1 x 1.5" TC sight glass or stainless tube

1 x 1.5" TC valve

3 x 1.5" TC clamps

3 x 1.5" TC silicone gaskets

Optional 1.5" x 2" TC Cap Reducer w/ extra 1.5" TC Clamp and Gasket for use on a 2" port

### How and Why

This dry hopper allows you to dry hop or add any additions to your beer without introducing oxygen and oxidizing the beer.

It also allows you to make additions to beer fermenting under pressure without having to release the pressure. This helps stabilize your fermentation schedule resulting in better repeatability with batches, healthier fermentation and less oxidation.

This dry hopper works by containing the addition inside of a sight glass and purging out the oxygen before dosing. By equalizing the pressure inside the sight glass and fermenter, you can add anything to your beer without degassing or depressurizing.

### How to use with non-pressurized fermentation

**Set up;** Before beginning fermentation, make sure you attach the 1.5" TC valve to the top of your fermenter in the closed position and ferment as normal. This will allow you to attach the sight glass without opening the tank.

**Step 1 Assembly:** When you are ready to make your addition, attach the 1.5" TC sight glass (or stainless tube) to the top of the valve.

**Step 2 Filling:** Fill the sight glass (or stainless tube) with your addition and attach the PRV tube then tc x corny adapter to the top of the sight glass (tube) Secure both with triclamps.

**Step 3 Purging out oxygen:** Set your gas regulator below 15 psi. We recommend 5-7 psi. Attach your gas ball lock disconnect to the lid and pressurize the sight glass/ss tube. Pull the PRV to purge out any oxygen. You may want to do this a few times until you feel all the oxygen has been removed. Disconnect your CO2 and do one last final purge. This will equalize the sight glass and fermenter.

**Warning: Make sure the CO2 is off or disconnected and release the pressure before opening the valve. Although the volume in the sight glass/ ss tube is low if your fermenter isn't rated for pressure opening a pressurized sight glass / ss tube could damage your tank.**

**Step 4 dosing:** Open the valve and allow the addition to fall into your tank.

**Step 5 Disassembly:** Close the butterfly valve and remove the sight glass/ SS tube and continue the rest of your fermentation schedule until your next addition.

### How to use for Pressurized Fermentation

**Set up;** Before beginning fermentation, make sure you attach the 1.5" TC valve to the top of your fermenter in the closed position and ferment as normal. This will allow you to attach the sight glass / SS tube without opening the tank.

**Note:** If the manufacturer of your unitank included a prv and it is attached to the 1.5" port, attach the PRV to the 1.5" valve and ferment with the valve open.

**Step 1 Assembly:** When you are ready to make your addition, attach the 1.5" TC sight glass/ SS tube to the top of the valve.

If you have a manufacturer PRV on top of your valve, close the valve, remove the PRV and then add the sight glass. This ensures your beer was never exposed to oxygen.

**Step 2 Filling:** Fill the sight glass with your addition and attach the prv tube and corny adapter to the top of the sight glass / tube with a triclamp.

**Step 3 Purging out Oxygen:** Set your gas regulator to match the pressure inside of your tank. Attach your gas ball lock disconnect to the lid and pressurize the sight glass / ss tube. Pull the PRV to purge out any oxygen. You may want to do this a few times until you feel all the oxygen has been removed.

**Step 4 Equalizing pressure:** Allow the sight glass to fill to the regulators set PSI and then Disconnect your Co2 tank but do not pull the sight glass PRV. Your sight glass and Unitank are at equal pressure and this allows you to open the valve without oxidizing, foaming out your beer or causing a mess.

**Step 5 dosing:** Open the valve and allow the addition to fall into your tank.

**Step 6 Disassembly:** Close the valve. Pull the PRV to remove any pressure. Then and only then remove the TC clamp holding the sight glass / ss tube to disassemble and continue the rest of your fermentation schedule until your next addition.

**Warning: removing the TC clamp holding onto the sight glass without pulling the PRV can cause the sight glass to jump up as the pressure is vented out the bottom and cause damage to the tank or injury.**